



Spectra Lux

2750 Sabourin, Saint-Laurent (Quebec) H4S 1M2 Canada
Tel.: (514) 332-0082 Fax: (514) 332-3590 www.spectralux.ca



Lab Code: 200899-0

Moving Mirror Goniophotometer Test Report

Standard(s): IES LM-63, IES LM-79, ANSI C82.77

Customer ANDlight, 1951 Franklin St., Vancouver, British Columbia , Canada, V5L 0C7

General Information		Lamp Details: CY4603		Driver Details: CY2107	
DUT Lab ID	SRIS 3068-1	Seasoning	0 Hour	Type	LED Power Supply
Lamp Type	LED/SSL	Test Product	PEB-CW	Manufacturer	ERP
Current Mode	AC	Manufacturer	CREE	Catalog No.	ESS015W-0300-4Z
Test Report	S2012223-R1	Lamp Catalog No.	XD16	Maximum Power	15 W
Test Date	22 December 2020	Drive Current	300 mA	Input Voltage	120.00 V
Report Date	29 December 2020	Nominal Color	2700 K	Operating Frequency	60 Hz
Ambient	24.6 °C	Burning Position	Junction Axial	Input Power	8.84 W

Luminaire Data

General Information		Optics		Aperture (feet)	
Manufacturer	ANDlight	Reflector	None	X	-0.4583
Name	Peeble	Housing	None	Y	-0.4583
Catalog No.	PEB-CW	Lens	Opalin Spherical Globe	Z	-0.4583

Stabilization Time: 45 minutes

Approved Signatory: Chrisnel Blot

Signature:



Luminaire Test Method

Precise installation and alignment of the luminaire to the rotation axis of the photometer is governed by a servomotor controlled via a microcontroller. A laser is used to validate the luminaire positioning. Before photometric measurements are taken, luminaire is operated long enough to reach stabilization and temperature equilibrium.

All movement commands issued to the photometer axes are mediated by the software to ensure the motion is within the limits of operation. The photometric detector used is a silicon detector corrected to closely match the spectral luminous efficiency photopic curve with a quality index less than 1.5%. Proper shielding is incorporated to the photometric test bench such that only the light from the unit under test is measured.

Luminous intensity measurements are performed at a distance great enough so that the inverse-square law applies. During each measurement the computer records the luminous intensity associated to the corresponding angles of radiation, as well as input electrical operational parameters and temperature measurements. Candela values are reported in IES format as per LM-63.

Equipment, reference standards are traceable to National Institute of Standards and Technology (NIST) and National Research Council of Canada (NRC).





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Electrical Equipment

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Power Supply	iRDC	CIF-3000A	974997	N.P.C.R.	N.P.C.R.
Input Power Meter	Yokogawa	WT210	27E116584	2020/07/22	2021/09/22
Output Power Meter	N/A	N/A	N/A	N.P.C.R.	N.P.C.R.

Photometric Equipment

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Photometer	N/A	N/A	N/A	N.P.C.R.	N.P.C.R.
Photodetector	INPHORA	IPR-PDET 19	110802	2020/09/05	2021/09/05

Environment Equipment

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Temperature Humidity Sensor	Omega	HH311	120504176	2020/07/16	2021/07/16

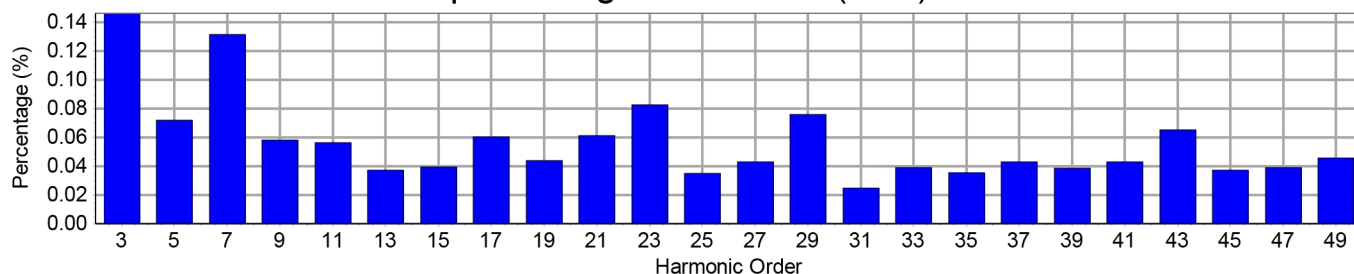


Electrical Measurements

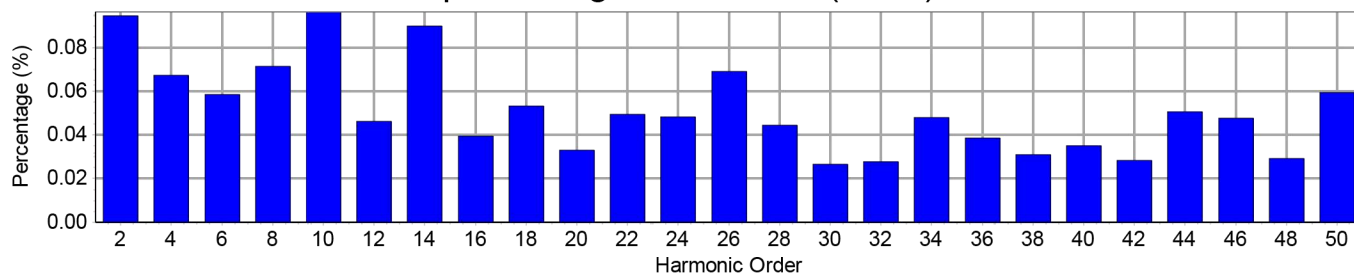
Input

Frequency	60 Hz	Active Power	8.84 W	THDV [ANSI]	0.39 %
Voltage	120.0 V(rms)	Apparent Power	9.04 VA	THDA [ANSI]	12.74 %
Current	0.0753 A(rms)	Power Factor	0.979	Max. Harmonic At	3rd order

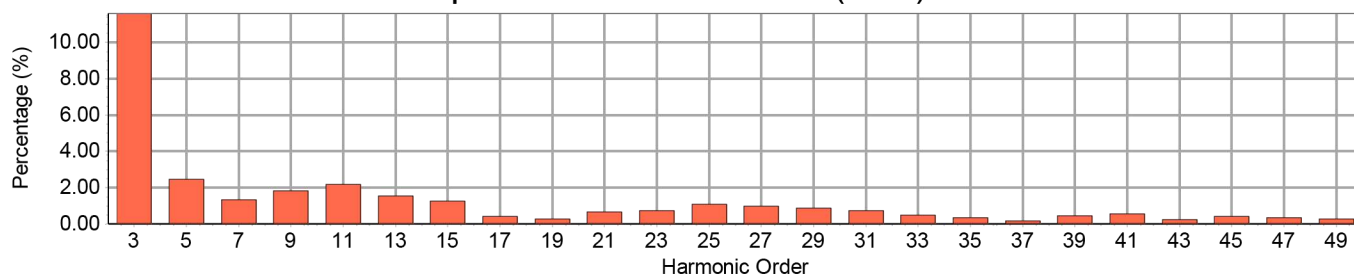
Input Voltage Harmonics (Odd)



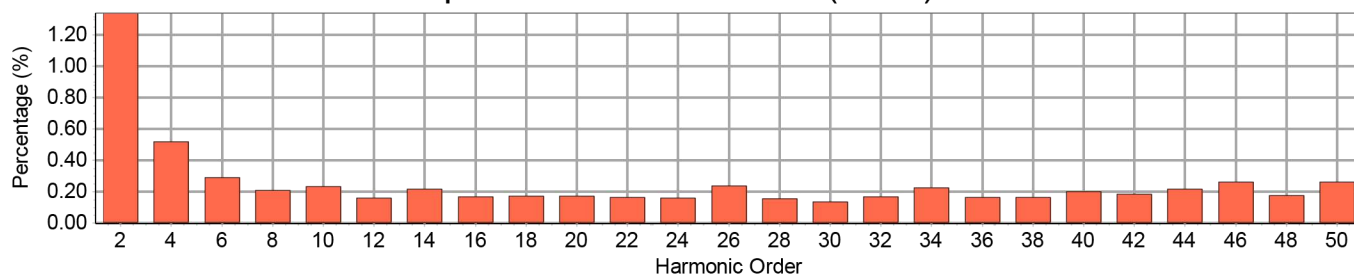
Input Voltage Harmonics (Even)



Input Current Harmonics (Odd)



Input Current Harmonics (Even)





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Harmonic Measurements

Odd Harmonics				Even Harmonics			
Harmonic Order	Frequency (HZ)	Voltage Harmonics (%)	Current Harmonics (%)	Harmonic Order	Frequency (HZ)	Voltage Harmonics (%)	Current Harmonics (%)
1	60	100.000	100.000	2	120	0.095	1.339
3	180	0.147	11.613	4	240	0.067	0.520
5	300	0.072	2.442	6	360	0.058	0.291
7	420	0.132	1.324	8	480	0.071	0.212
9	540	0.058	1.820	10	600	0.097	0.235
11	660	0.056	2.169	12	720	0.046	0.160
13	780	0.037	1.533	14	840	0.090	0.218
15	900	0.039	1.260	16	960	0.040	0.169
17	1020	0.060	0.407	18	1080	0.053	0.173
19	1140	0.044	0.262	20	1200	0.033	0.173
21	1260	0.061	0.652	22	1320	0.050	0.165
23	1380	0.083	0.706	24	1440	0.048	0.159
25	1500	0.035	1.068	26	1560	0.069	0.240
27	1620	0.043	0.968	28	1680	0.045	0.156
29	1740	0.076	0.870	30	1800	0.026	0.137
31	1860	0.025	0.710	32	1920	0.028	0.170
33	1980	0.039	0.480	34	2040	0.048	0.226
35	2100	0.035	0.331	36	2160	0.039	0.166
37	2220	0.043	0.168	38	2280	0.031	0.167
39	2340	0.039	0.430	40	2400	0.035	0.203
41	2460	0.043	0.534	42	2520	0.028	0.187
43	2580	0.065	0.223	44	2640	0.051	0.219
45	2700	0.037	0.423	46	2760	0.048	0.262
47	2820	0.039	0.337	48	2880	0.029	0.176
49	2940	0.046	0.266	50	3000	0.059	0.264



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Photometric Report: S2012223-R1

Prepared for: ANDlight · Test Date: 22 December 2020

Luminaire: Peeble · Lumcat: PEB-CW

Coefficients of Utilization - Zonal Cavity Method

RCR	RC	0.9				0.8				0.7				0.5			0.1			0
	RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
0		116	116	116	116	107	107	107	107	99	99	99	99	83	83	83	56	56	56	50
1		102	95	89	84	94	88	83	78	86	81	76	72	67	64	60	44	42	40	34
2		92	81	73	65	84	75	67	61	77	69	62	56	57	52	47	36	33	31	26
3		83	70	60	53	76	65	56	49	69	59	52	45	49	43	38	31	28	25	20
4		76	61	51	43	69	56	47	40	63	52	44	37	43	37	32	27	23	20	17
5		69	54	44	36	63	50	41	34	57	46	38	32	38	32	27	24	20	17	14
6		63	48	38	31	58	44	35	29	53	41	33	27	34	28	23	22	18	15	12
7		58	43	34	27	53	40	31	25	49	37	29	23	31	24	20	20	16	13	10
8		54	39	30	23	49	36	28	22	45	33	26	20	28	22	17	18	14	11	9
9		50	35	27	21	46	33	25	19	42	30	23	18	25	19	15	17	13	10	8
10		47	32	24	18	43	30	22	17	39	28	21	16	23	18	14	15	12	9	7

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0 - 10	5	0.86	0.86
10 - 20	16	2.51	2.51
20 - 30	25	4.03	4.03
30 - 40	33	5.34	5.34
40 - 50	40	6.39	6.39
50 - 60	45	7.17	7.17
60 - 70	48	7.69	7.69
70 - 80	50	7.97	7.97
80 - 90	50	8.04	8.04
90 - 120	147	23.70	23.70
90 - 130	192	30.87	30.87
90 - 150	265	42.60	42.60
90 - 180	311	50.00	50.00
0 - 180	622	100.00	100.00

Average Luminance (Cd/m²)

Angle	0 Degree	45 Degree	90 Degree
45.0	1408	1387	1256
55.0	1714	1730	1544
65.0	2317	2364	2095
75.0	3842	3909	3454
85.0	11663	11836	10303

Luminaire Luminous Flux: 622

Measured Input Power: 8.84 W

Total Luminaire Efficiency: N/A

Luminaire Luminous Efficacy: 70.3 lm/W

Luminaire Spacing Criterion (0 Degree): 1.6554

Luminaire Spacing Criterion (90 Degree): 1.5006

Category: Up and Down

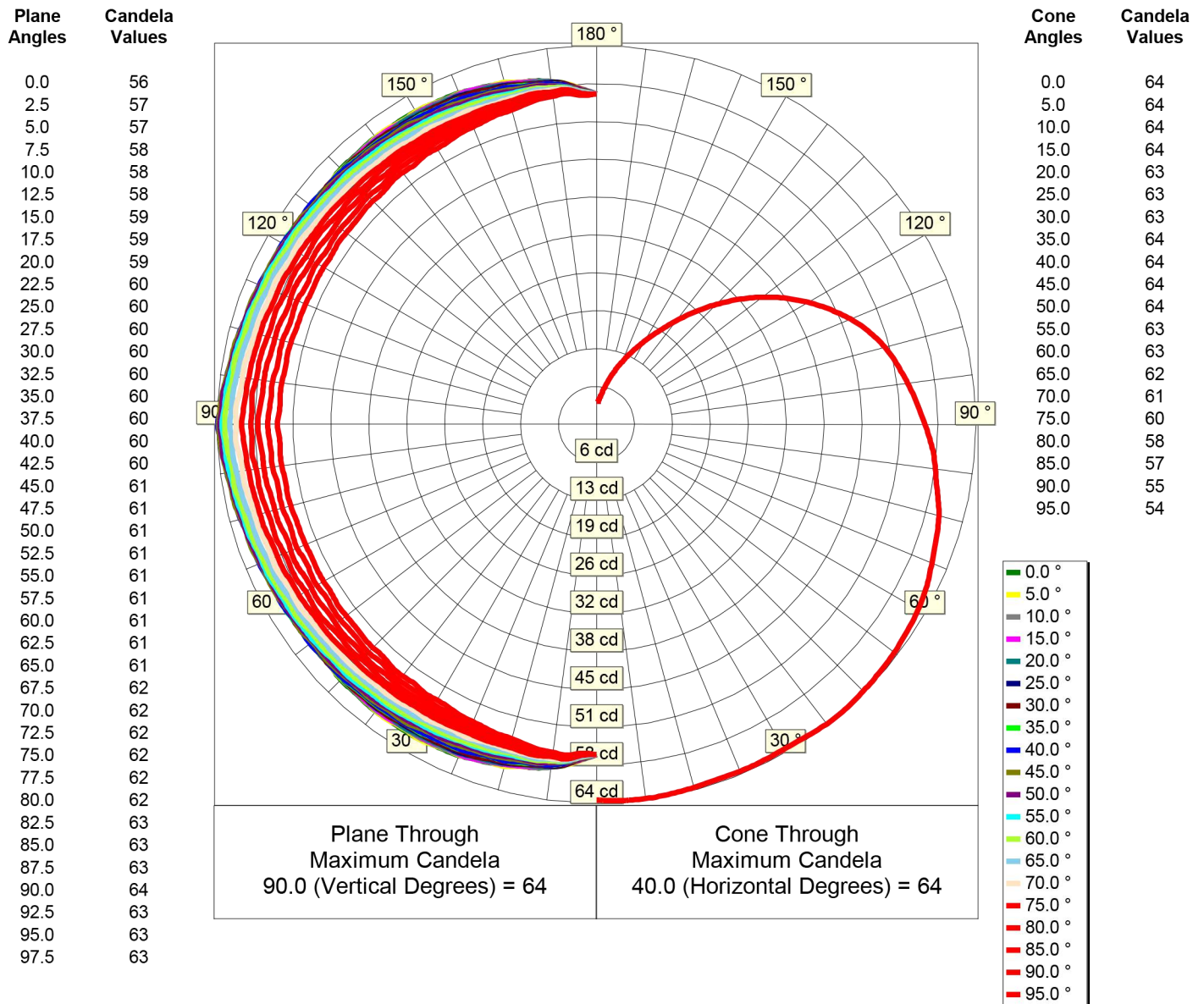


Photometric Report: S2012223-R1

Prepared for: ANDlight · Test Date: 22 December 2020

Luminaire: Peeble · Lumcat: PEB-CW

Luminous Intensity - Polar Curve for each Plane(1)



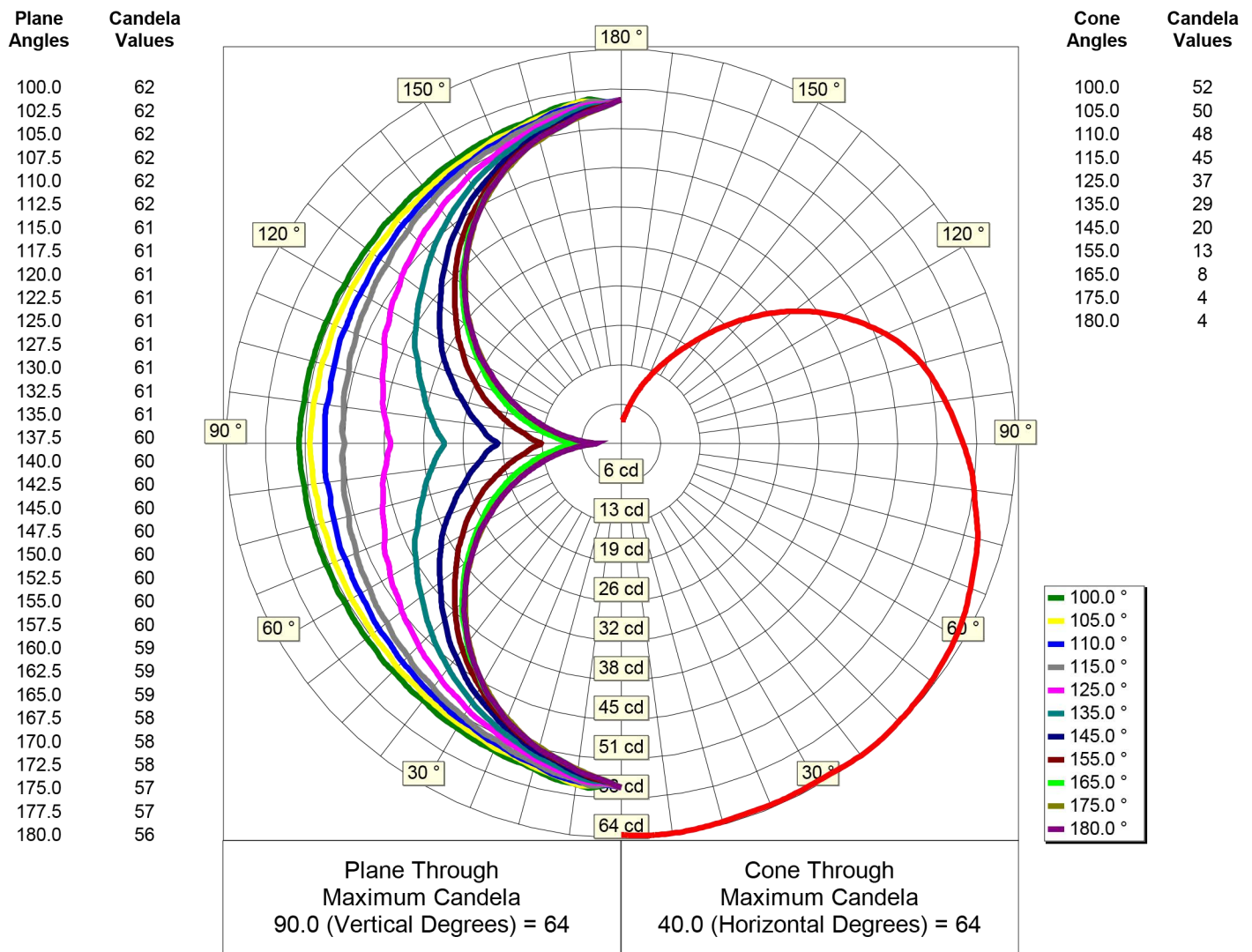


Photometric Report: S2012223-R1

Prepared for: ANDlight · Test Date: 22 December 2020

Luminaire: Peeble · Lumcat: PEB-CW

Luminous Intensity - Polar Curve for each Plane(2)





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IES File Headers

IESNA:LM-63
[ISSUEDATE] 22 December 2020
[TESTLAB] Spectra Lux
[TEST] S2012223-R1
[MANUFAC] ANDlight
[LUMCAT] PEB-CW
[LUMINAIRE] Peeble
[LAMP] Clusters of CREE XD16 LEDs c/w ERP Driver ESS015W-0300-4Z @ 120.00V
[_BURNING] Axial (622 Luminaire Lumens)
[_REFLECTOR] None
[_LENS] Opalin Spherical Globe
[_HOUSING] None
[_NOMINAL COLOR] 2700 K
[_DRIVE CURRENT] 300 mA

Candela Table

Lateral Angles

	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
V e r t i c a l	0.0	56	56	56	56	56	56	56	56	56
	2.5	57	57	57	57	57	56	57	56	57
	5.0	58	58	58	58	58	58	57	57	57
	7.5	58	58	58	58	58	58	58	58	58
	10.0	59	59	59	59	59	58	58	58	58
	12.5	59	59	59	59	59	59	59	58	58
	15.0	60	60	60	59	59	59	59	59	58
	17.5	60	60	60	60	59	59	59	59	59
	20.0	60	60	60	60	60	60	59	59	59
	22.5	61	60	60	60	60	60	60	60	59
	25.0	61	61	61	60	60	60	60	60	59
	27.5	61	61	61	61	60	60	60	60	59
	30.0	61	61	61	61	60	60	60	60	59
	32.5	61	61	61	61	61	60	60	60	60
	35.0	61	61	61	61	61	60	60	60	60
	37.5	61	61	61	61	61	60	60	60	60
	40.0	61	61	61	61	61	61	60	60	60
	42.5	61	61	61	61	61	61	60	60	60
	45.0	61	61	61	61	61	61	61	61	60
A n g l e s	47.5	61	61	61	61	61	61	60	61	60
	50.0	61	60	61	61	61	61	61	61	60
	52.5	61	60	60	60	61	61	61	61	60
	55.0	60	60	60	60	61	61	61	61	61
	57.5	60	60	60	60	61	61	61	61	61
	60.0	60	60	60	60	61	61	61	61	61
	62.5	60	60	60	60	61	61	61	61	61
	65.0	60	60	60	60	61	61	61	61	61
	67.5	60	60	60	60	61	61	61	62	61
	70.0	60	60	61	60	61	61	61	62	62
	72.5	61	61	61	61	61	61	62	62	62
	75.0	61	61	61	61	61	61	62	62	62
	77.5	61	61	61	61	61	62	62	62	62
	80.0	61	62	62	62	62	62	62	62	63
	82.5	62	62	62	62	62	62	63	63	63
	85.0	62	62	62	62	63	63	63	63	63
	87.5	63	63	63	63	63	63	63	63	64
	90.0	64	64	64	64	63	63	64	64	64



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Lateral Angles

	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
V e r t i c a l	92.5	63	63	63	63	63	63	63	63	64
	95.0	62	62	62	62	63	62	63	63	63
	97.5	62	62	62	62	62	62	63	63	63
	100.0	61	62	62	62	62	62	62	62	63
	102.5	61	61	61	61	61	62	62	62	62
	105.0	61	61	61	61	61	61	62	62	62
	107.5	61	61	61	61	61	61	62	62	62
	110.0	60	60	61	60	61	61	61	62	62
	112.5	60	60	60	60	61	61	61	62	61
	115.0	60	60	60	60	61	61	61	61	61
	117.5	60	60	60	60	61	61	61	61	61
	120.0	60	60	60	60	61	61	61	61	61
	122.5	60	60	60	60	61	61	61	61	61
	125.0	60	60	60	60	61	61	61	61	61
	127.5	61	60	60	60	61	61	61	61	60
	130.0	61	60	61	61	61	61	61	61	60
	132.5	61	61	61	61	61	61	60	61	60
	135.0	61	61	61	61	61	61	61	61	60
	137.5	61	61	61	61	61	61	60	60	60
	140.0	61	61	61	61	61	61	60	60	60
A n g l e s	142.5	61	61	61	61	61	60	60	60	60
	145.0	61	61	61	61	61	60	60	60	60
	147.5	61	61	61	61	61	60	60	60	60
	150.0	61	61	61	61	60	60	60	60	59
	152.5	61	61	61	61	60	60	60	60	59
	155.0	61	61	61	60	60	60	60	60	59
	157.5	61	60	60	60	60	60	60	60	59
	160.0	60	60	60	60	60	60	59	59	59
	162.5	60	60	60	60	60	59	59	59	59
	165.0	60	60	60	59	59	59	59	59	58
	167.5	59	59	59	59	59	59	59	58	58
	170.0	59	59	59	59	59	58	58	58	58
	172.5	58	58	58	58	58	58	58	58	58
	175.0	58	58	58	58	58	58	57	57	57
	177.5	57	57	57	57	57	56	56	57	57
	180.0	56	56	56	56	56	56	56	56	56



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Lateral Angles

	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
V e r t i c a l	0.0	56	56	56	56	56	56	56	56	56
	2.5	57	56	56	56	56	56	56	56	56
	5.0	57	57	57	57	57	57	56	56	56
	7.5	58	57	57	57	57	57	57	56	56
	10.0	58	58	58	57	57	57	56	56	56
	12.5	58	58	58	57	57	57	56	56	55
	15.0	58	58	57	57	57	56	56	56	55
	17.5	58	58	58	57	57	56	55	55	55
	20.0	59	58	58	57	57	56	56	55	55
	22.5	59	58	58	57	57	56	56	55	54
	25.0	59	58	58	58	57	56	55	55	54
	27.5	59	59	58	58	57	56	55	55	54
	30.0	59	59	58	58	57	56	55	55	54
	32.5	59	59	59	58	57	56	55	54	54
	35.0	59	59	59	58	58	56	55	54	54
	37.5	60	59	59	58	58	56	55	55	54
	40.0	60	59	59	58	58	56	55	54	54
	42.5	60	60	59	58	58	56	55	54	53
	45.0	60	60	59	59	58	56	55	54	53
	47.5	60	60	59	59	58	56	55	54	53
A n g l e s	50.0	60	60	60	59	58	57	56	55	54
	52.5	60	60	60	59	58	57	56	55	54
	55.0	61	60	60	59	58	57	55	54	53
	57.5	61	60	60	59	59	58	56	54	53
	60.0	61	60	60	59	59	58	57	55	54
	62.5	61	61	60	60	59	58	57	56	54
	65.0	61	61	61	60	59	58	57	56	54
	67.5	61	61	61	60	59	58	57	56	55
	70.0	62	61	61	60	59	58	57	56	55
	72.5	62	62	61	60	60	59	57	56	55
	75.0	62	62	61	60	60	59	57	56	55
	77.5	62	62	61	61	60	59	58	56	55
	80.0	62	62	62	61	60	59	58	56	55
	82.5	63	62	62	61	60	59	58	57	55
	85.0	63	63	62	62	60	59	58	57	55
	87.5	63	63	63	62	61	60	58	57	55
	90.0	64	63	63	62	61	60	58	57	55
	92.5	63	63	63	62	61	60	58	57	55
	95.0	63	63	62	62	60	59	58	57	55
	97.5	63	62	62	61	60	59	58	57	55
	100.0	62	62	62	61	60	59	58	56	55
	102.5	62	62	61	61	60	59	58	56	55
	105.0	62	62	61	60	60	59	57	56	55
	107.5	62	62	61	60	60	59	57	56	55
	110.0	62	61	61	60	59	58	57	56	55
	112.5	61	61	61	60	59	58	57	56	55
	115.0	61	61	61	60	59	58	57	56	54
	117.5	61	61	60	60	59	58	57	56	54
	120.0	61	60	60	59	59	58	57	55	54
	122.5	61	60	60	59	59	58	57	56	54
	125.0	61	60	60	59	58	57	57	55	54
	127.5	60	60	60	59	58	57	56	55	54
	130.0	60	60	60	59	58	57	56	55	54
	132.5	60	60	59	59	58	57	56	55	54



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Lateral Angles

	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
135.0	60	60	59	59	58	57	56	55	54	53
137.5	60	60	59	58	58	57	56	55	54	53
140.0	60	59	59	58	58	57	56	55	54	54
142.5	60	59	59	58	58	57	56	55	55	54
145.0	59	59	59	58	58	57	56	55	54	54
147.5	59	59	59	58	57	57	56	55	54	54
150.0	59	59	58	58	57	57	56	55	55	54
152.5	59	59	58	58	57	57	56	55	55	54
155.0	59	58	58	58	57	57	56	55	55	54
157.5	59	58	58	57	57	56	56	56	55	54
160.0	59	58	58	57	57	57	56	56	55	55
162.5	58	58	58	57	57	57	56	55	55	55
165.0	58	58	57	57	57	57	56	56	56	55
167.5	58	58	58	57	57	57	56	56	56	55
170.0	58	58	58	57	57	57	57	56	56	56
172.5	58	57	57	57	57	57	57	57	56	56
175.0	57	57	57	57	57	57	57	56	56	56
177.5	57	56	56	56	56	56	56	56	56	56
180.0	56	56	56	56	56	56	56	56	56	56

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Lateral Angles

	100.0	105.0	110.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0
V e r t i c a l	0.0	56	56	56	56	56	56	56	56	56
	2.5	56	55	55	55	55	55	55	55	55
	5.0	56	56	56	56	55	55	55	54	54
	7.5	56	56	55	55	55	54	54	53	53
	10.0	56	55	55	55	54	54	53	53	53
	12.5	55	55	55	54	54	53	52	52	52
	15.0	55	54	54	54	53	53	52	51	51
	17.5	54	54	54	53	52	52	51	51	50
	20.0	54	54	53	53	52	51	50	50	49
	22.5	54	53	53	52	51	51	50	49	48
	25.0	54	53	53	52	51	50	49	48	47
	27.5	54	53	52	52	50	49	48	47	46
	30.0	53	52	52	51	50	48	47	46	45
	32.5	53	52	52	51	49	48	46	45	44
	35.0	53	52	51	50	49	47	45	43	42
	37.5	53	52	51	50	48	46	44	42	41
	40.0	53	52	51	50	47	45	43	41	39
	42.5	52	51	50	49	47	44	42	39	38
	45.0	52	51	50	49	46	43	40	38	36
	47.5	52	51	50	49	46	43	39	37	35
A n g l e s	50.0	52	51	49	48	45	42	38	35	33
	52.5	52	51	49	48	45	41	37	34	31
	55.0	52	50	49	48	44	40	36	32	30
	57.5	52	50	49	47	44	39	35	31	28
	60.0	52	50	49	47	43	38	34	30	27
	62.5	52	50	49	47	42	38	33	28	25
	65.0	52	50	49	47	42	37	31	27	23
	67.5	52	50	48	46	41	36	30	26	22
	70.0	52	50	49	46	41	35	29	24	20
	72.5	52	50	48	46	40	34	28	23	19
	75.0	52	50	48	46	40	33	26	21	17
	77.5	52	50	48	46	39	32	25	20	15
	80.0	52	50	48	46	39	32	24	18	14
	82.5	52	50	48	45	39	31	23	17	12
	85.0	52	50	48	45	38	30	22	15	10
	87.5	52	50	48	45	38	29	21	14	9
	90.0	52	50	48	45	37	29	20	13	8
	92.5	52	50	48	45	38	29	21	14	9
	95.0	52	50	48	45	38	30	22	15	10
	97.5	52	50	48	45	39	31	23	17	12
	100.0	52	50	48	46	39	32	24	18	14
	102.5	52	50	48	46	39	32	25	20	15
	105.0	52	50	48	46	40	33	26	21	17
	107.5	52	50	48	46	40	34	28	23	19
	110.0	52	50	49	46	41	35	29	24	20
	112.5	52	50	48	46	41	36	30	26	22
	115.0	52	50	49	47	42	37	31	27	23
	117.5	52	50	49	47	42	38	33	28	25
	120.0	52	50	49	47	43	38	34	30	27
	122.5	52	50	49	47	44	39	35	31	28
	125.0	52	50	49	48	44	40	36	32	30
	127.5	52	51	49	48	45	41	37	34	31
	130.0	52	51	49	48	45	42	38	35	33
	132.5	52	51	50	49	46	43	39	37	35



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Lateral Angles

	100.0	105.0	110.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0
V e r t i c a l A n g l e s	135.0	52	51	50	49	46	43	40	38	36
	137.5	52	51	50	49	47	44	42	39	37
	140.0	53	52	51	50	47	45	43	41	39
	142.5	53	52	51	50	48	46	44	42	40
	145.0	53	52	51	50	49	47	45	43	42
	147.5	53	52	52	51	49	48	46	45	44
	150.0	53	52	52	51	50	48	47	46	45
	152.5	54	53	52	52	50	49	48	47	46
	155.0	54	53	53	52	51	50	49	48	47
	157.5	54	53	53	52	51	51	50	49	48
	160.0	54	54	53	53	52	51	50	50	49
	162.5	54	54	54	53	52	52	51	51	50
	165.0	55	54	54	54	53	53	52	51	51
	167.5	55	55	55	54	54	53	52	52	52
	170.0	56	55	55	55	54	54	53	53	53
	172.5	56	56	55	55	55	54	54	53	53
	175.0	56	56	56	56	55	55	55	54	54
	177.5	56	55	55	55	55	55	55	55	55
	180.0	56	56	56	56	56	56	56	56	56



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Lateral Angles

180.0	
V e r t i c a l	0.0 56
	2.5 55
	5.0 54
	7.5 54
	10.0 53
	12.5 52
	15.0 51
	17.5 50
	20.0 49
	22.5 49
	25.0 47
	27.5 46
	30.0 45
	32.5 44
	35.0 42
	37.5 41
	40.0 39
	42.5 38
	45.0 36
	47.5 34
A n g l e s	50.0 33
	52.5 31
	55.0 29
	57.5 27
	60.0 25
	62.5 23
	65.0 22
	67.5 20
	70.0 18
	72.5 16
	75.0 14
	77.5 13
	80.0 11
	82.5 9
	85.0 7
	87.5 6
	90.0 4
	92.5 6
	95.0 7
	97.5 9
	100.0 11
	102.5 13
	105.0 14
	107.5 16
	110.0 18
	112.5 20
	115.0 22
	117.5 23
	120.0 25
	122.5 27
	125.0 29
	127.5 31
	130.0 33
	132.5 34

