

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P192606

Luminaire Tested: **GLEON-AF-08-LED-E1-5NQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-5NQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52208.4 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

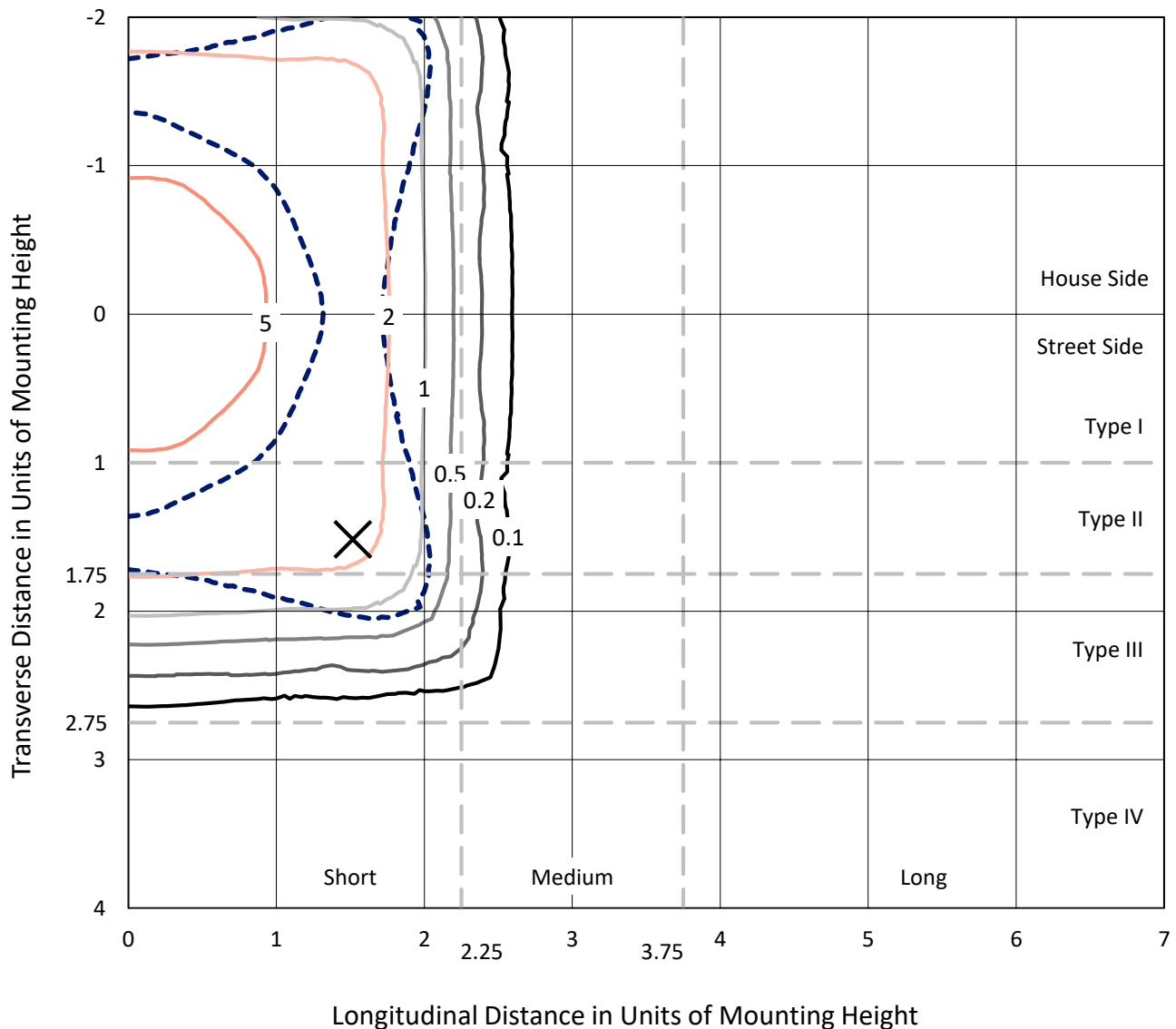


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

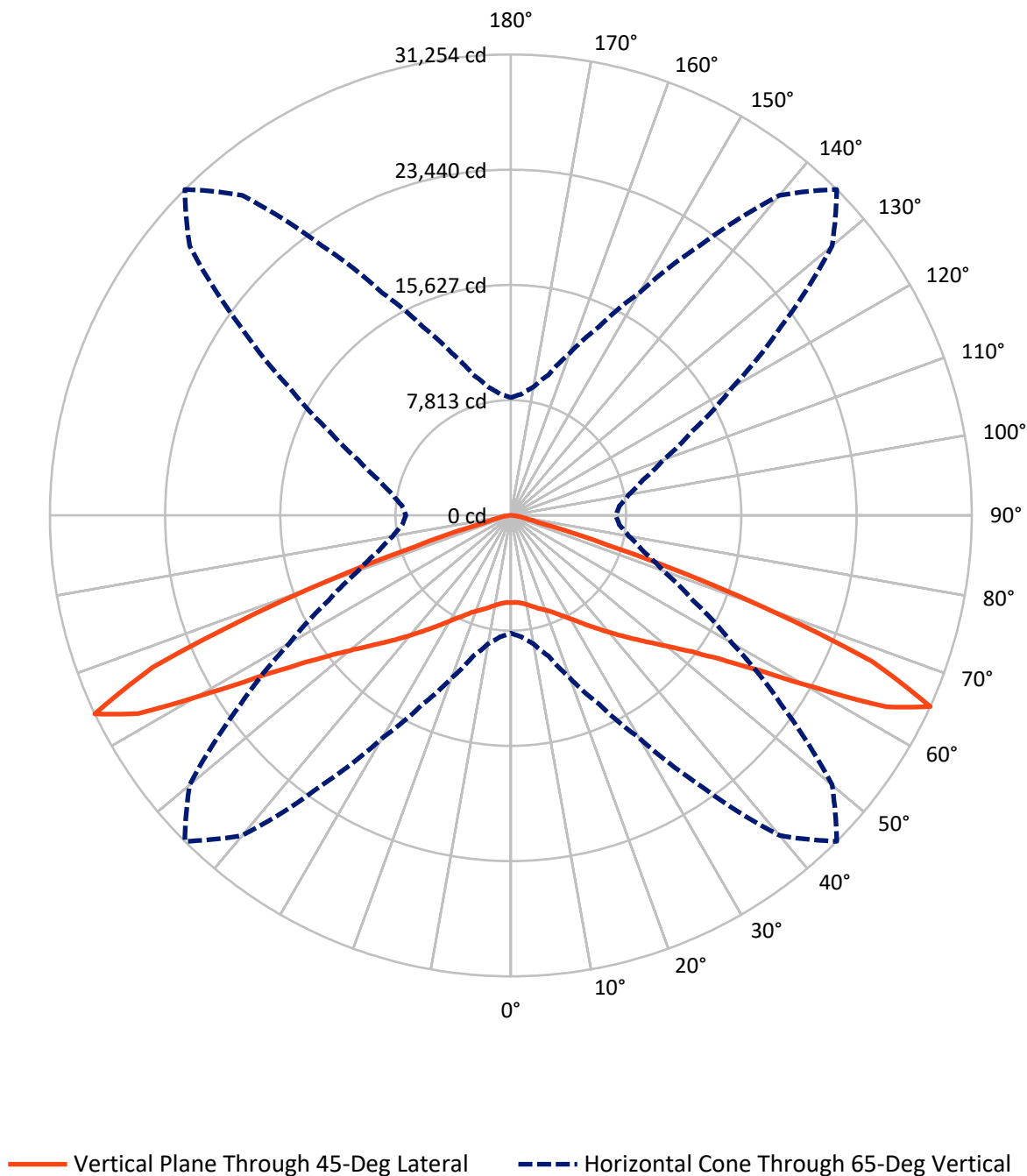


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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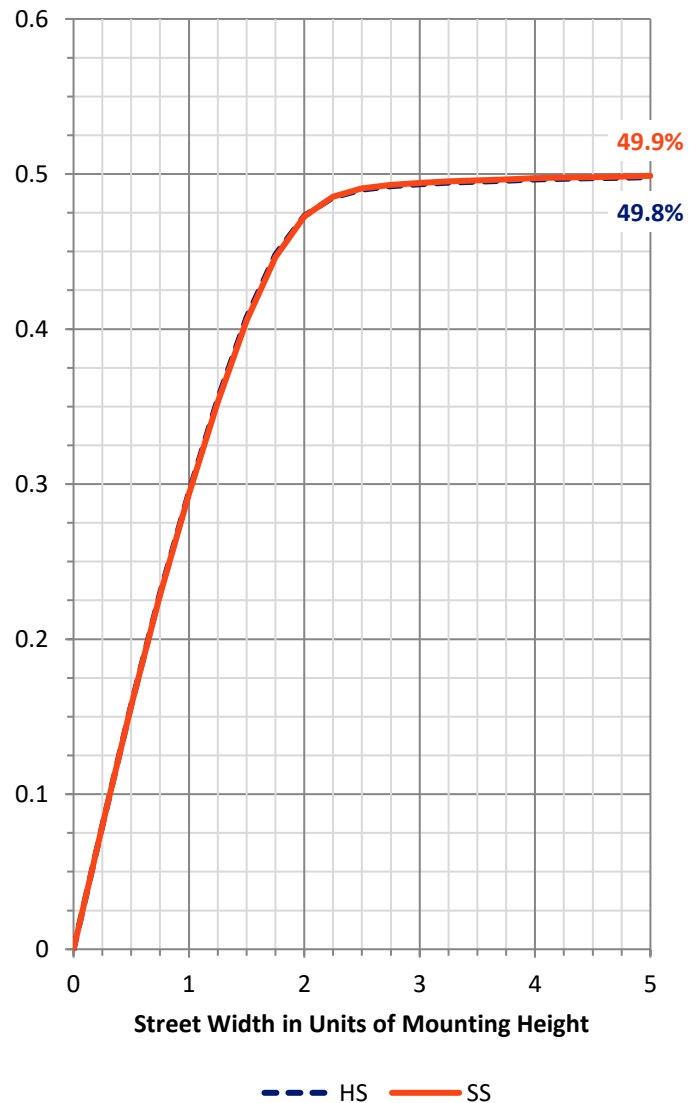
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26104.2	0.0	26104.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26104.2	0.0	26104.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	52208.4	0.0	52208.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.8	1.1
10°-20°	1846.6	3.5
20°-30°	3452.9	6.6
30°-40°	5839.8	11.2
40°-50°	9548.6	18.3
50°-60°	15183.8	29.1
60°-70°	13725.2	26.3
70°-80°	1737.0	3.3
80°-90°	298.8	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	52208.4	100.0
0°-180°	52208.4	100.0

Coefficient of Utilization



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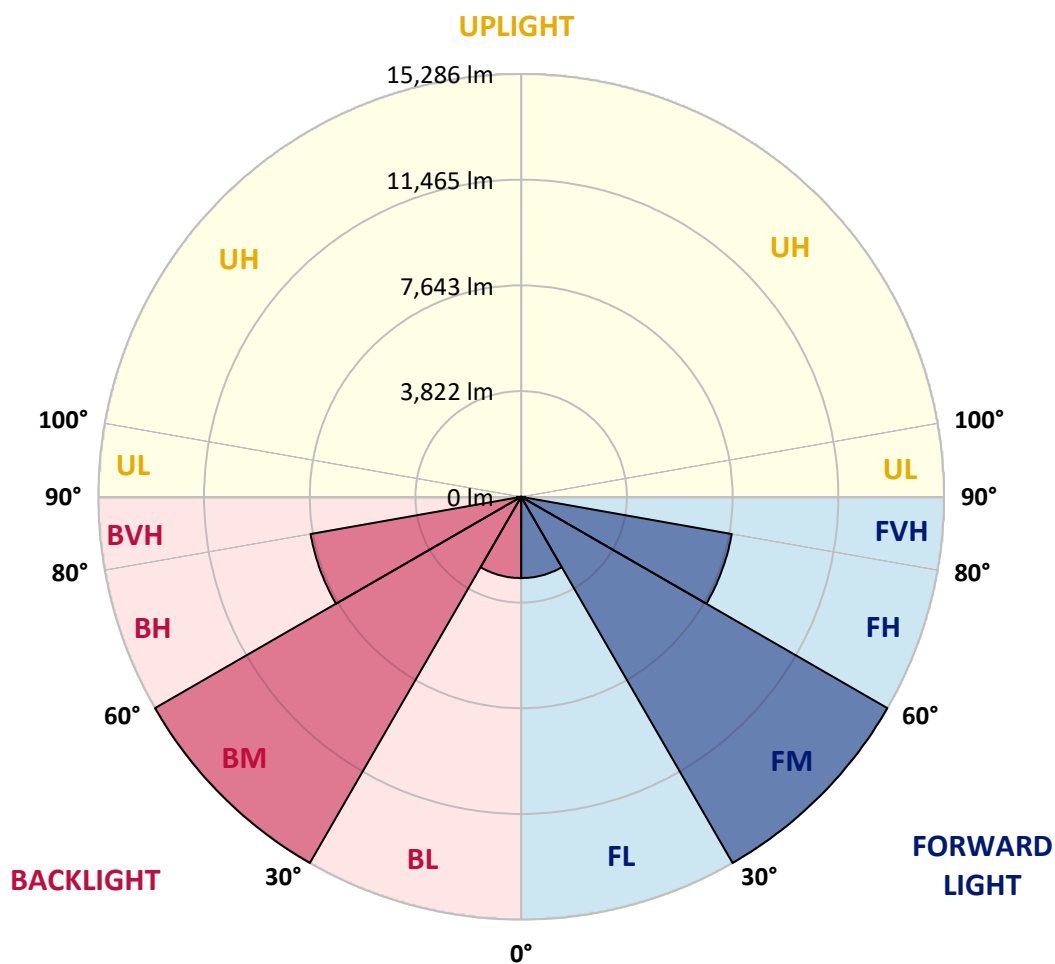
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2937.6	5.6			
FM	(30°-60°)	15286.1	29.3			
FH	(60°-80°)	7731.1	14.8			G4/12000
FVH	(80°-90°)	149.4	0.3			G2/225
BL	(0°-30°)	2937.6	5.6	B4/5000		
BM	(30°-60°)	15286.1	29.3	B5		
BH	(60°-80°)	7731.1	14.8	B5		G4/12000
BVH	(80°-90°)	149.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5907.4	5907.4	5907.4	5907.4	5907.4	5907.4	5907.4	5907.4	5907.4	5907.4	5907.4
2.5°	5912.3	5917.2	5922.1	5917.2	5922.1	5914.8	5909.9	5917.2	5909.9	5902.5	5907.4
5°	5963.7	5966.1	5966.1	5958.8	5966.1	5961.1	5953.9	5963.7	5956.3	5948.9	5953.9
7.5°	6049.2	6059.0	6051.7	6044.3	6049.2	6044.3	6039.5	6041.9	6039.5	6032.1	6034.6
10°	6164.2	6171.5	6166.6	6164.2	6169.0	6166.6	6161.6	6159.3	6161.6	6154.3	6154.3
12.5°	6303.5	6301.1	6298.7	6301.1	6308.4	6308.4	6306.0	6308.4	6313.3	6315.7	6310.9
15°	6440.4	6445.3	6445.3	6445.3	6460.1	6472.2	6479.6	6484.4	6494.3	6496.7	6486.9
17.5°	6611.6	6611.6	6609.2	6611.6	6626.2	6645.8	6653.2	6662.9	6672.8	6680.1	6667.9
20°	6802.4	6807.2	6807.2	6812.1	6831.7	6853.8	6853.8	6858.5	6853.8	6858.5	6851.2
22.5°	7034.6	7049.3	7049.3	7051.7	7071.3	7098.1	7090.8	7098.1	7086.0	7095.8	7086.0
25°	7337.9	7359.8	7354.9	7354.9	7369.6	7386.7	7389.2	7403.9	7401.3	7413.6	7406.2
27.5°	7680.2	7714.4	7724.2	7721.7	7731.5	7748.5	7753.5	7770.6	7760.8	7770.6	7765.7
30°	8090.8	8105.6	8125.2	8132.5	8144.7	8161.7	8161.7	8164.3	8152.1	8166.7	8174.0
32.5°	8516.3	8543.2	8562.8	8606.8	8628.9	8641.1	8638.6	8643.5	8631.3	8650.8	8665.5
35°	9078.8	9098.3	9130.0	9164.3	9193.6	9191.2	9183.9	9186.3	9186.3	9203.5	9218.1
37.5°	9756.1	9760.9	9802.5	9851.4	9866.1	9851.4	9807.3	9797.6	9775.7	9797.6	9822.1
40°	10472.5	10489.6	10572.7	10604.4	10611.8	10584.9	10521.3	10484.6	10435.8	10462.6	10496.9
42.5°	11223.1	11257.3	11333.1	11389.4	11413.9	11396.8	11308.7	11252.5	11188.9	11203.6	11237.8
45°	12054.5	12096.0	12203.6	12257.4	12303.9	12276.9	12191.3	12105.8	12005.5	12012.8	12066.7
47.5°	12983.6	13025.2	13164.5	13255.0	13279.5	13274.6	13179.2	13061.8	12925.0	12920.0	12966.5
50°	14025.2	14066.8	14240.5	14379.7	14450.6	14443.3	14330.9	14164.6	13998.3	14000.8	14059.5
52.5°	15042.4	15093.7	15274.7	15514.3	15653.7	15753.9	15685.5	15529.0	15326.1	15330.9	15384.7
55°	15996.0	16081.6	16289.4	16614.6	16873.8	17155.1	17235.6	17230.7	17108.5	17142.8	17196.6
57.5°	16458.2	16585.2	16905.5	17419.1	17947.2	18519.3	19003.5	19365.3	19519.3	19751.7	19698.0
60°	15582.8	15785.7	16257.6	17013.2	18057.2	19250.4	20529.3	21778.6	22844.8	23649.1	23187.1
62.5°	12758.6	13022.7	13594.9	14563.1	16142.7	18052.4	20499.9	23453.6	26671.4	28612.9	27226.5
65°	7983.3	8257.2	8839.1	9875.8	11724.4	14098.6	17419.1	22314.1	28326.8	31253.5	28431.9
67.5°	3112.7	3261.8	3577.2	4239.8	5628.7	7741.2	11074.0	16629.3	23820.3	26385.3	23377.7
70°	1560.0	1574.7	1633.3	1755.6	2053.8	2667.7	4058.9	7709.5	13660.9	16499.7	13169.4
72.5°	1127.2	1129.6	1159.0	1212.8	1308.2	1445.1	1709.2	2359.6	4442.8	6790.1	4164.1
75°	863.1	872.9	890.0	919.4	970.7	1039.2	1134.5	1359.5	1684.7	1953.7	1643.2
77.5°	665.1	684.6	696.8	723.8	755.5	802.0	829.0	914.5	1063.6	1119.9	1102.8
80°	506.1	523.3	550.1	572.2	594.2	616.2	606.4	645.5	723.8	770.2	745.8
82.5°	322.8	342.3	420.5	440.1	449.9	464.6	447.4	449.9	484.1	513.5	484.1
85°	207.8	220.0	266.5	290.9	293.4	303.2	295.9	278.7	278.7	254.2	286.0
87.5°	95.4	97.8	119.8	141.8	146.7	131.9	129.6	124.7	100.3	95.4	102.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5907.4	5907.4	5907.4	5907.4	5907.4	5907.4	5907.4	5907.4
2.5°	5904.9	5909.9	5912.3	5919.6	5922.1	5922.1	5924.6	5929.4
5°	5951.5	5958.8	5961.1	5971.0	5973.4	5971.0	5975.8	5978.3
7.5°	6034.6	6046.7	6051.7	6061.4	6054.2	6063.9	6066.3	6066.3
10°	6156.9	6169.0	6171.5	6181.3	6176.4	6181.3	6181.3	6176.4
12.5°	6318.3	6320.6	6313.3	6320.6	6310.9	6315.7	6308.4	6303.5
15°	6496.7	6489.4	6472.2	6472.2	6457.6	6460.1	6457.6	6455.1
17.5°	6670.3	6655.6	6643.4	6638.5	6626.2	6623.9	6616.5	6616.5
20°	6861.1	6853.8	6846.3	6836.6	6824.4	6812.1	6809.7	6814.5
22.5°	7090.8	7088.4	7088.4	7083.5	7066.5	7054.3	7046.9	7046.9
25°	7398.9	7376.9	7376.9	7374.5	7367.2	7359.8	7345.2	7352.5
27.5°	7746.2	7733.9	7743.7	7741.2	7733.9	7733.9	7724.2	7724.2
30°	8174.0	8169.1	8183.8	8171.6	8147.1	8144.7	8134.9	8122.7
32.5°	8668.0	8663.0	8685.0	8670.4	8631.3	8609.3	8589.8	8579.9
35°	9218.1	9220.6	9247.4	9237.7	9193.6	9179.0	9144.8	9139.9
37.5°	9819.5	9858.7	9905.2	9914.9	9878.2	9868.6	9831.8	9812.2
40°	10526.2	10577.6	10648.5	10665.7	10626.4	10619.1	10567.8	10540.9
42.5°	11279.4	11367.4	11455.4	11470.0	11430.9	11391.8	11343.0	11323.4
45°	12120.4	12225.6	12340.5	12369.9	12311.3	12264.7	12201.2	12201.2
47.5°	13064.2	13196.4	13326.0	13406.5	13352.8	13304.0	13228.1	13179.2
50°	14179.2	14360.2	14528.9	14612.0	14526.4	14433.5	14301.5	14257.5
52.5°	15577.8	15773.4	15920.1	15876.1	15744.1	15614.6	15470.2	15411.6
55°	17362.8	17428.8	17428.8	17262.5	16998.4	16780.9	16553.5	16477.7
57.5°	19595.2	19341.0	18949.7	18453.4	17829.8	17287.0	16920.2	16746.6
60°	22218.9	20996.3	19614.8	18257.8	17142.8	16223.4	15678.1	15428.7
62.5°	23967.1	20768.9	18001.0	15822.4	14218.4	13110.8	12357.7	12064.2
65°	22399.8	17321.2	13614.5	11008.0	9259.7	8132.5	7386.7	7112.9
67.5°	16406.8	10854.0	7249.8	5196.0	3807.0	3036.9	2731.2	2604.0
70°	7364.7	3821.7	2342.4	1829.0	1577.1	1447.4	1391.3	1371.8
72.5°	2220.1	1606.4	1354.6	1222.6	1122.3	1058.7	1012.3	1007.4
75°	1339.9	1115.0	990.3	912.0	848.5	797.1	772.7	765.4
77.5°	936.5	819.1	760.5	704.1	655.3	616.2	594.2	577.0
80°	657.7	601.5	574.6	542.8	511.0	474.4	442.6	427.9
82.5°	440.1	427.9	427.9	408.3	381.5	347.2	283.6	269.0
85°	283.6	281.3	286.0	278.7	259.2	222.5	183.3	173.6
87.5°	131.9	134.5	149.1	146.7	141.8	117.4	92.9	88.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)