

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: P192711

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-AFL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18032.2 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 166
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



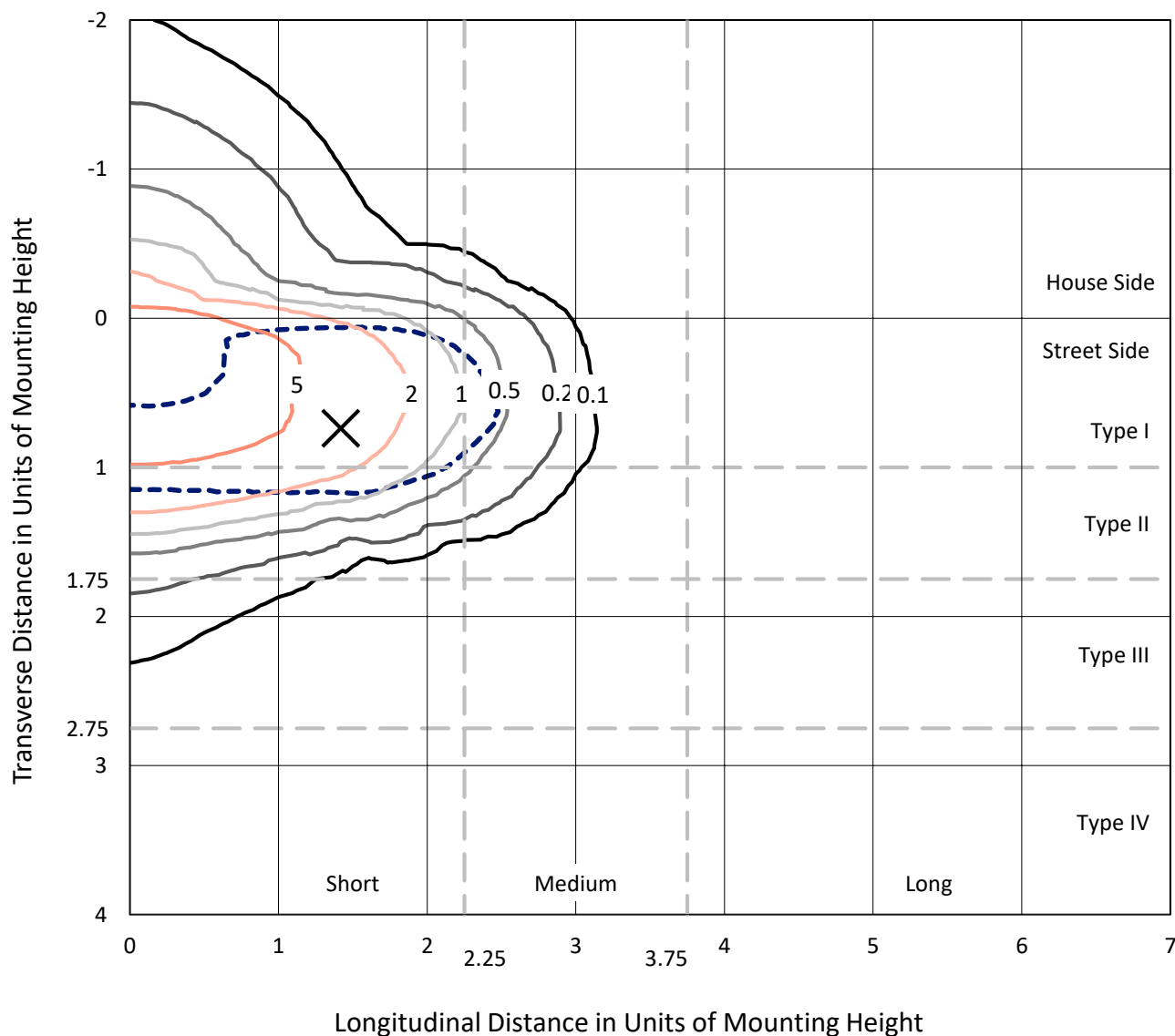
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

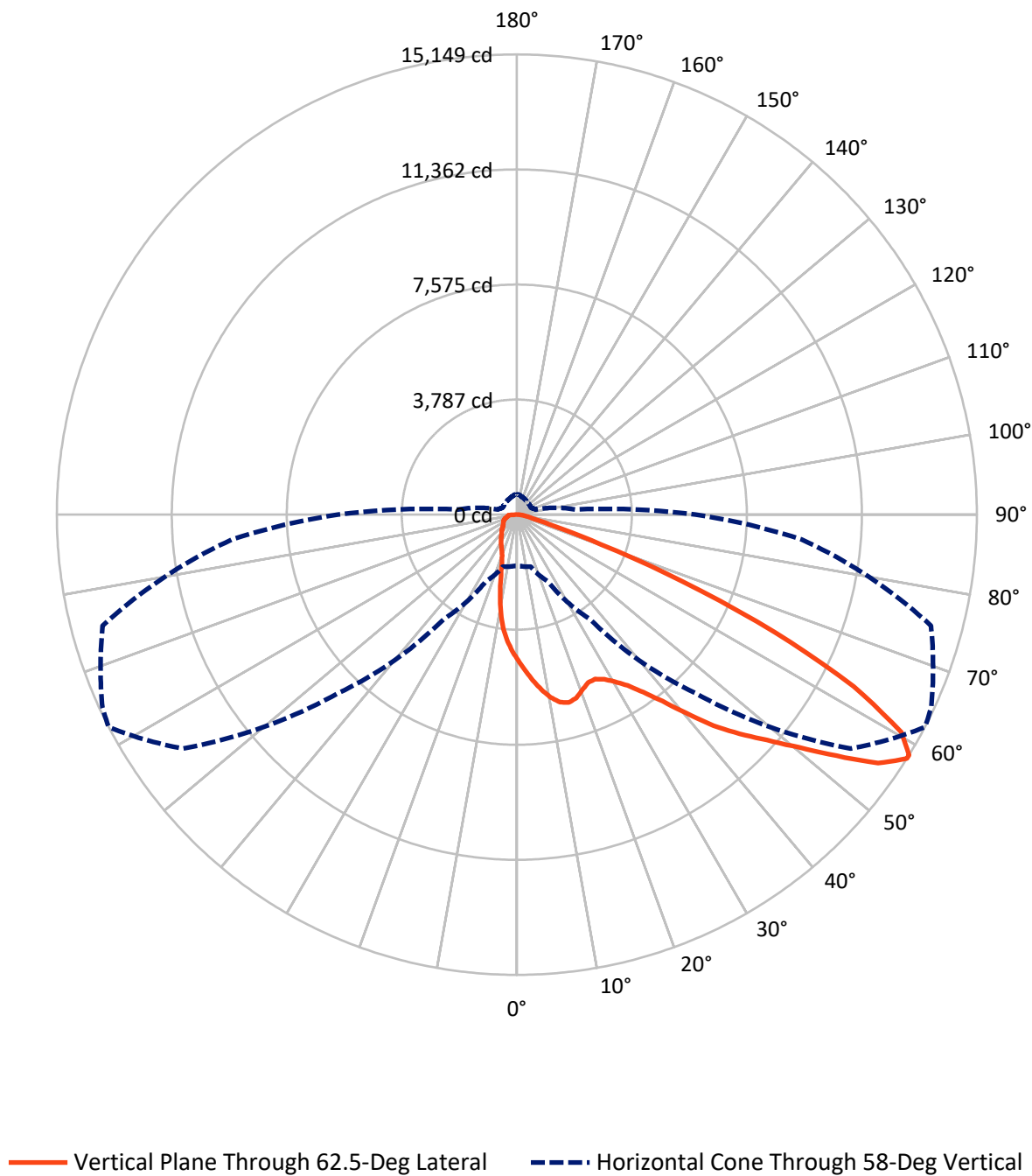


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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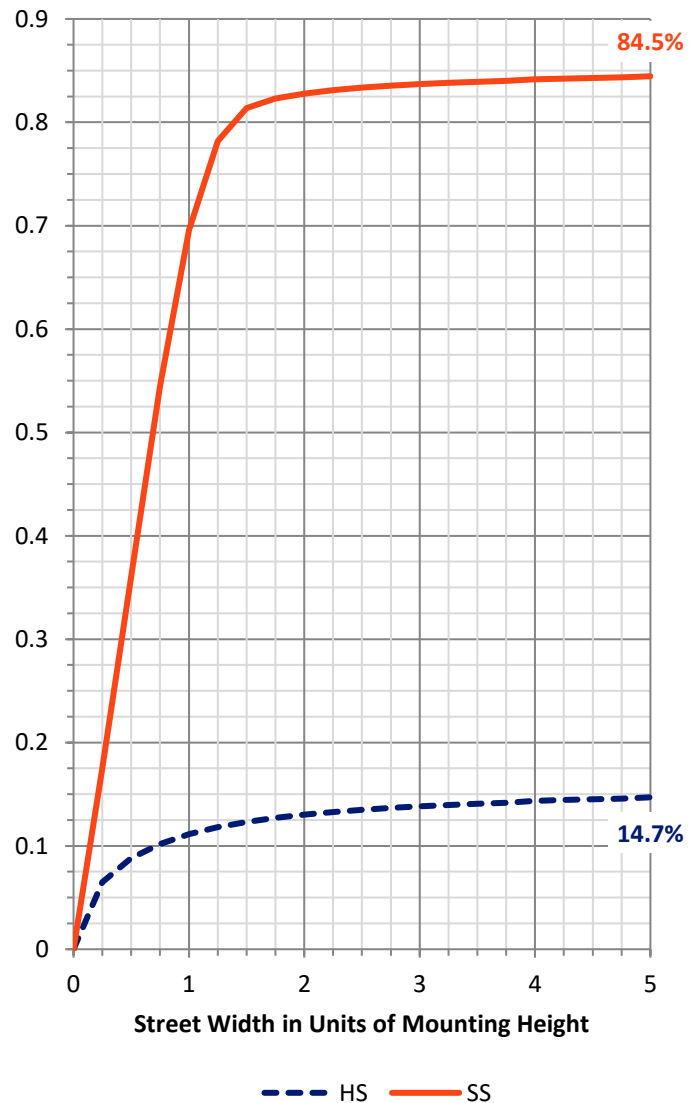
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2750.0	0.0	2750.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	15282.2	0.0	15282.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	18032.2	0.0	18032.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.4	2.4
10°-20°	1095.0	6.1
20°-30°	1770.1	9.8
30°-40°	2810.1	15.6
40°-50°	4111.7	22.8
50°-60°	4300.5	23.8
60°-70°	2540.7	14.1
70°-80°	715.7	4.0
80°-90°	259.8	1.4
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°	18032.2	100.0
0°-180°	18032.2	100.0

Coefficient of Utilization



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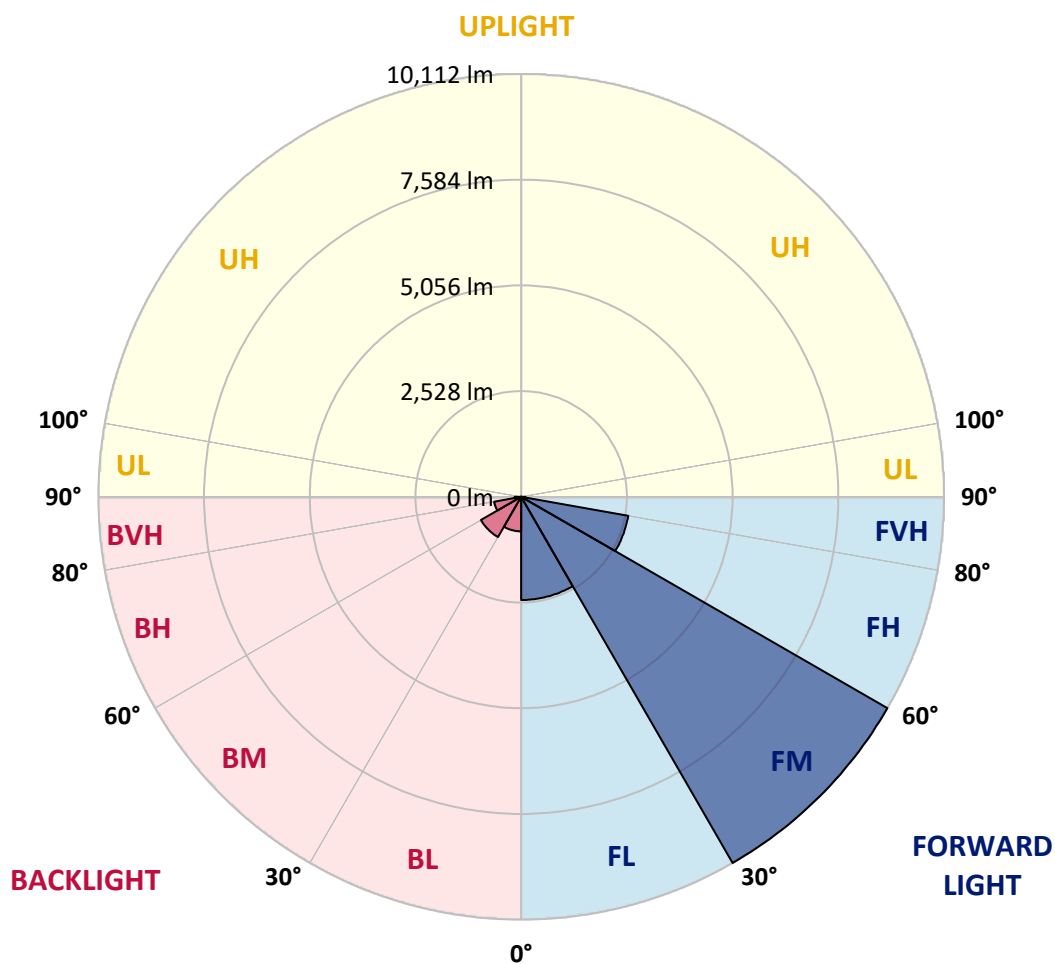
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2467.0	13.7			
FM	(30°-60°)	10112.3	56.1			
FH	(60°-80°)	2600.3	14.4			G2/5000
FVH	(80°-90°)	102.5	0.6			G2/225
BL	(0°-30°)	826.5	4.6	B2/1000		
BM	(30°-60°)	1110.0	6.2	B2/2500		
BH	(60°-80°)	656.2	3.6	B2/1000		G2/1000
BVH	(80°-90°)	157.3	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9
2.5°	5473.5	5429.3	5401.2	5376.6	5344.3	5275.6	5183.0	5124.5	5094.8	4993.7	4873.9
5°	6010.1	5971.0	5942.2	5909.0	5851.3	5743.4	5594.0	5475.1	5416.5	5214.4	4975.0
7.5°	5884.3	5900.5	5950.6	6038.1	6112.8	6098.5	5965.0	5813.9	5736.6	5455.6	5092.1
10°	5127.0	5155.0	5241.6	5446.2	5777.4	6117.1	6220.6	6116.3	6038.1	5694.1	5212.8
12.5°	4975.0	4974.1	4980.9	5035.3	5232.3	5710.3	6229.1	6334.5	6287.8	5921.8	5335.9
15°	5037.0	5038.7	5033.6	5056.5	5117.6	5306.9	5969.3	6418.4	6451.6	6151.0	5463.2
17.5°	5199.9	5195.8	5176.2	5176.2	5198.3	5272.2	5663.6	6340.4	6493.2	6354.0	5575.3
20°	5473.5	5453.9	5402.1	5354.6	5330.8	5370.6	5538.0	6160.4	6421.0	6531.4	5667.9
22.5°	5804.6	5789.3	5705.2	5603.4	5521.0	5520.1	5602.5	6003.2	6296.2	6698.6	5746.0
25°	6232.4	6207.9	6083.1	5920.0	5775.7	5720.5	5743.4	5995.6	6228.4	6880.4	5815.7
27.5°	6735.2	6690.2	6542.5	6307.2	6094.9	5983.7	5950.6	6134.1	6290.3	7105.4	5912.4
30°	7344.9	7293.0	7103.7	6797.2	6497.4	6314.8	6244.3	6379.4	6495.8	7379.7	6067.8
32.5°	8038.6	7963.9	7744.9	7406.9	7013.0	6734.3	6619.7	6703.8	6796.4	7710.0	6262.2
35°	8997.3	8908.1	8591.4	8125.2	7680.3	7297.3	7113.9	7175.0	7265.0	8202.5	6543.3
37.5°	9651.1	9611.2	9400.5	8962.4	8478.4	8037.7	7754.1	7789.8	7840.8	8818.1	6903.3
40°	9645.1	9661.2	9665.5	9669.8	9340.2	8918.3	8613.5	8576.1	8565.9	9494.0	7312.6
42.5°	9161.9	9228.2	9442.1	9876.1	10076.4	9882.8	9603.6	9495.7	9442.1	10290.5	7746.5
45°	8422.4	8458.1	8858.8	9706.3	10453.5	10838.2	10626.7	10287.1	10190.3	11022.4	8106.5
47.5°	8041.2	8080.2	8332.4	9256.2	10449.2	11610.0	11732.3	11085.2	10912.0	11659.3	8417.4
50°	7133.4	7214.9	7532.6	8473.4	10068.0	11964.9	12887.9	12036.2	11677.9	12279.1	8728.9
52.5°	5466.6	5592.3	5948.1	7186.1	9100.9	11789.2	13812.5	13189.3	12683.3	12921.0	8996.4
55°	3448.2	3541.6	3840.6	5075.2	7280.4	10874.7	14163.3	14436.8	13986.8	13529.0	9228.2
57.5°	1874.9	1916.4	2028.5	2802.1	4735.6	8852.9	13652.2	15146.6	14959.8	14045.3	9403.2
58°	1677.9	1705.9	1775.5	2428.5	4199.7	8300.1	13425.4	15149.2	15055.7	14120.7	9416.7
60°	1244.8	1230.4	1168.4	1385.7	2337.6	5734.2	12054.9	14542.9	14817.0	14213.4	9350.5
62.5°	1093.6	1058.8	932.3	917.9	1137.0	2641.6	9224.0	12457.4	13105.3	13685.3	8948.0
65°	1027.5	990.1	827.1	774.4	820.2	1117.4	5433.5	9342.9	10155.4	12083.7	7918.9
67.5°	978.2	929.8	760.0	687.8	691.2	738.7	2178.0	5884.3	6798.8	9174.7	6159.5
70°	930.7	878.0	703.1	619.8	600.4	584.2	866.1	2945.6	3775.1	5795.2	3927.3
72.5°	879.6	827.8	653.0	566.4	528.2	474.6	565.5	1204.9	1682.9	2741.8	1781.5
75°	805.8	759.2	602.9	518.8	464.5	393.2	427.1	629.3	754.9	1091.9	858.4
77.5°	715.0	676.8	546.9	479.7	411.8	319.2	328.7	436.5	484.0	625.0	510.4
80°	513.7	527.2	486.5	431.3	366.8	259.0	252.2	318.4	343.8	401.6	332.0
82.5°	360.9	368.5	402.5	352.4	303.0	203.8	186.0	224.2	239.5	264.1	179.1
85°	248.8	240.3	276.0	245.4	219.1	135.8	127.4	152.0	161.3	163.9	92.6
87.5°	149.4	149.4	159.6	131.6	118.0	70.5	68.8	86.7	92.6	88.3	51.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9
2.5°	4802.6	4742.3	4614.1	4511.4	4381.4	4246.5	4170.9	4090.2	4035.1	3995.1	4058.8
5°	4839.1	4715.9	4451.1	4199.7	3922.1	3633.4	3414.4	3210.5	3068.8	2980.4	3063.6
7.5°	4896.9	4707.6	4285.4	3855.9	3357.4	2876.8	2447.2	2178.0	2020.9	1943.6	1992.1
10°	4963.1	4693.9	4091.0	3389.7	2676.5	2071.0	1750.0	1641.3	1605.7	1591.3	1598.0
12.5°	5018.3	4665.1	3852.5	2825.9	2009.9	1635.4	1542.8	1540.3	1547.9	1549.7	1552.1
15°	5057.4	4622.6	3498.4	2238.2	1607.4	1490.2	1485.2	1500.3	1514.9	1520.8	1524.1
17.5°	5083.7	4535.2	3098.5	1769.6	1440.1	1419.8	1431.7	1451.2	1466.5	1470.6	1474.0
20°	5081.1	4407.0	2622.1	1475.8	1349.3	1349.3	1369.7	1384.9	1385.7	1380.7	1383.2
22.5°	5054.8	4231.2	2160.2	1319.6	1268.6	1283.0	1303.4	1288.9	1229.5	1190.5	1193.0
25°	5010.6	4021.4	1764.4	1220.2	1193.8	1219.4	1213.5	1104.7	1019.8	981.5	981.5
27.5°	4971.7	3773.5	1460.5	1133.6	1119.2	1150.5	1045.3	946.7	911.1	893.3	887.3
30°	4943.6	3506.0	1257.6	1050.3	1048.7	1025.7	906.9	879.6	873.7	859.4	854.2
32.5°	4950.3	3235.1	1127.7	977.4	983.3	878.0	840.6	846.5	841.6	826.2	819.5
35°	5006.4	2977.9	1042.8	911.1	893.3	793.1	801.5	812.6	810.9	789.7	782.9
37.5°	5106.6	2734.2	986.7	855.9	779.4	750.6	764.2	781.2	777.0	762.5	757.3
40°	5211.8	2504.9	940.8	812.6	712.4	721.7	733.6	743.0	747.3	751.4	748.1
42.5°	5314.6	2265.5	884.8	768.4	684.4	694.6	699.7	709.0	731.9	748.1	747.3
45°	5375.8	2040.4	827.1	705.6	662.3	668.2	664.9	683.5	711.6	737.9	738.7
47.5°	5443.8	1865.5	781.2	647.9	641.2	645.2	635.2	653.8	679.3	711.6	715.0
50°	5526.0	1761.0	744.7	602.0	612.2	612.2	609.6	626.6	662.3	699.7	706.5
52.5°	5619.4	1740.7	714.1	568.9	583.3	582.5	585.1	610.5	649.5	686.0	692.0
55°	5733.3	1795.9	681.0	544.3	555.4	558.8	567.2	596.1	629.3	670.9	673.4
57.5°	5865.7	1908.0	654.7	524.8	529.8	541.0	554.5	580.8	616.4	662.3	664.9
58°	5887.8	1931.7	650.4	523.1	524.8	537.4	552.8	578.2	613.9	664.0	666.6
60°	5888.6	2010.7	641.2	515.3	505.3	526.4	543.4	568.9	609.6	670.0	675.9
62.5°	5679.8	2009.9	634.2	504.3	484.9	511.2	530.7	560.4	605.4	684.4	696.3
65°	5001.4	1826.5	602.0	487.4	468.7	497.5	519.6	554.5	617.4	747.3	754.9
67.5°	3911.9	1497.0	541.7	463.6	447.5	484.0	512.9	553.6	630.1	761.6	766.8
70°	2586.3	1120.0	475.5	436.5	425.4	467.8	516.2	582.5	615.5	731.1	717.5
72.5°	1342.5	786.2	422.0	402.5	399.9	453.4	565.5	579.1	601.2	687.8	670.9
75°	704.7	546.0	375.3	365.2	369.4	450.0	667.3	563.8	582.5	658.1	690.3
77.5°	431.3	440.7	335.4	331.2	339.7	439.9	666.6	544.3	555.4	605.4	641.2
80°	288.7	357.5	304.9	305.7	311.6	402.5	598.6	513.7	522.3	572.3	608.8
82.5°	182.6	211.4	276.9	291.2	283.6	332.0	508.6	467.8	479.7	654.7	692.0
85°	92.6	132.4	240.3	280.2	255.5	232.6	412.7	410.2	416.1	472.1	493.3
87.5°	42.5	72.9	187.7	244.5	192.8	145.2	299.7	304.0	327.8	335.4	335.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)