

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: P192721

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192721
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19780.3 lumens
Efficiency: N/A
Efficacy: 103.6 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): 191
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



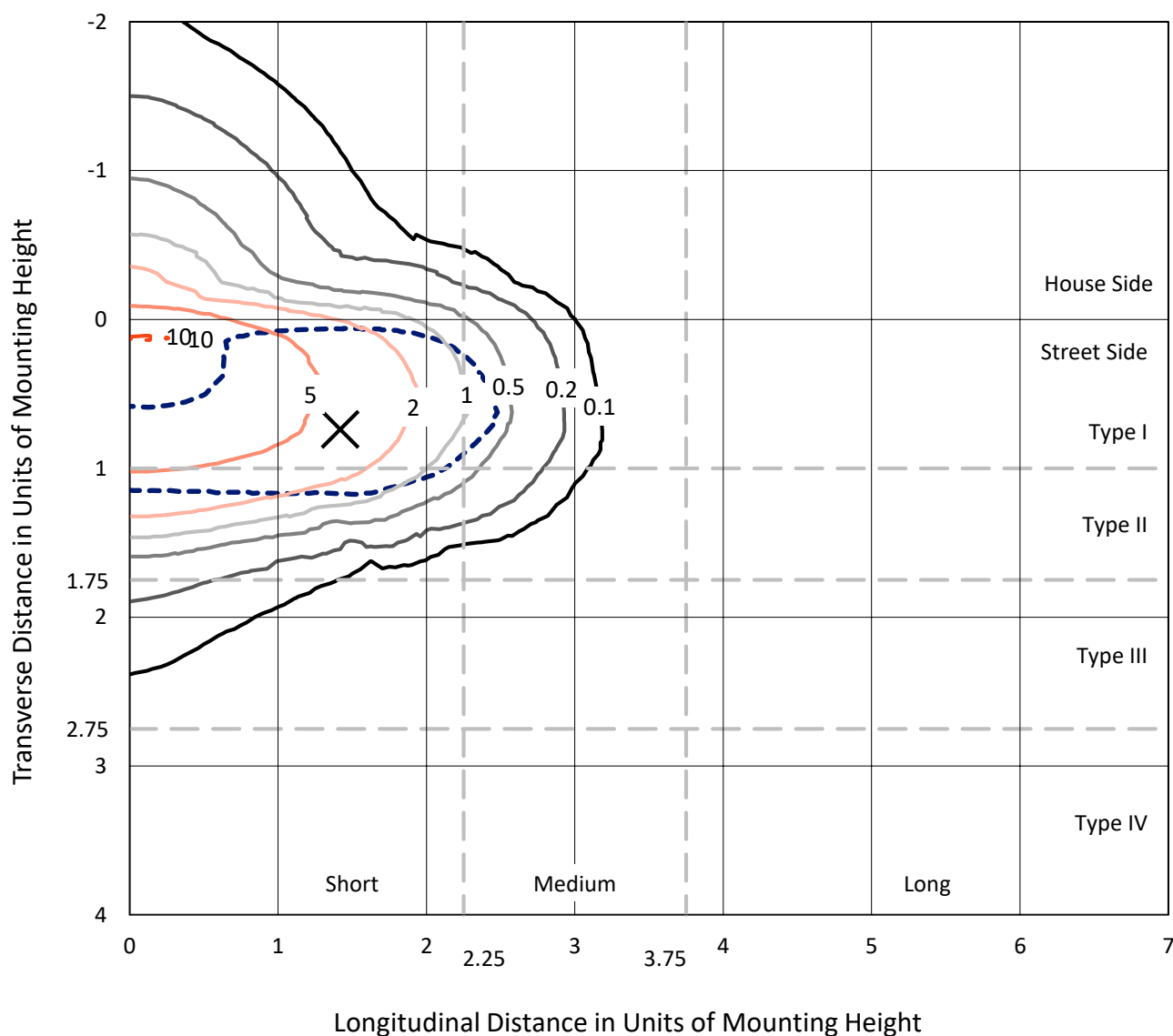
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

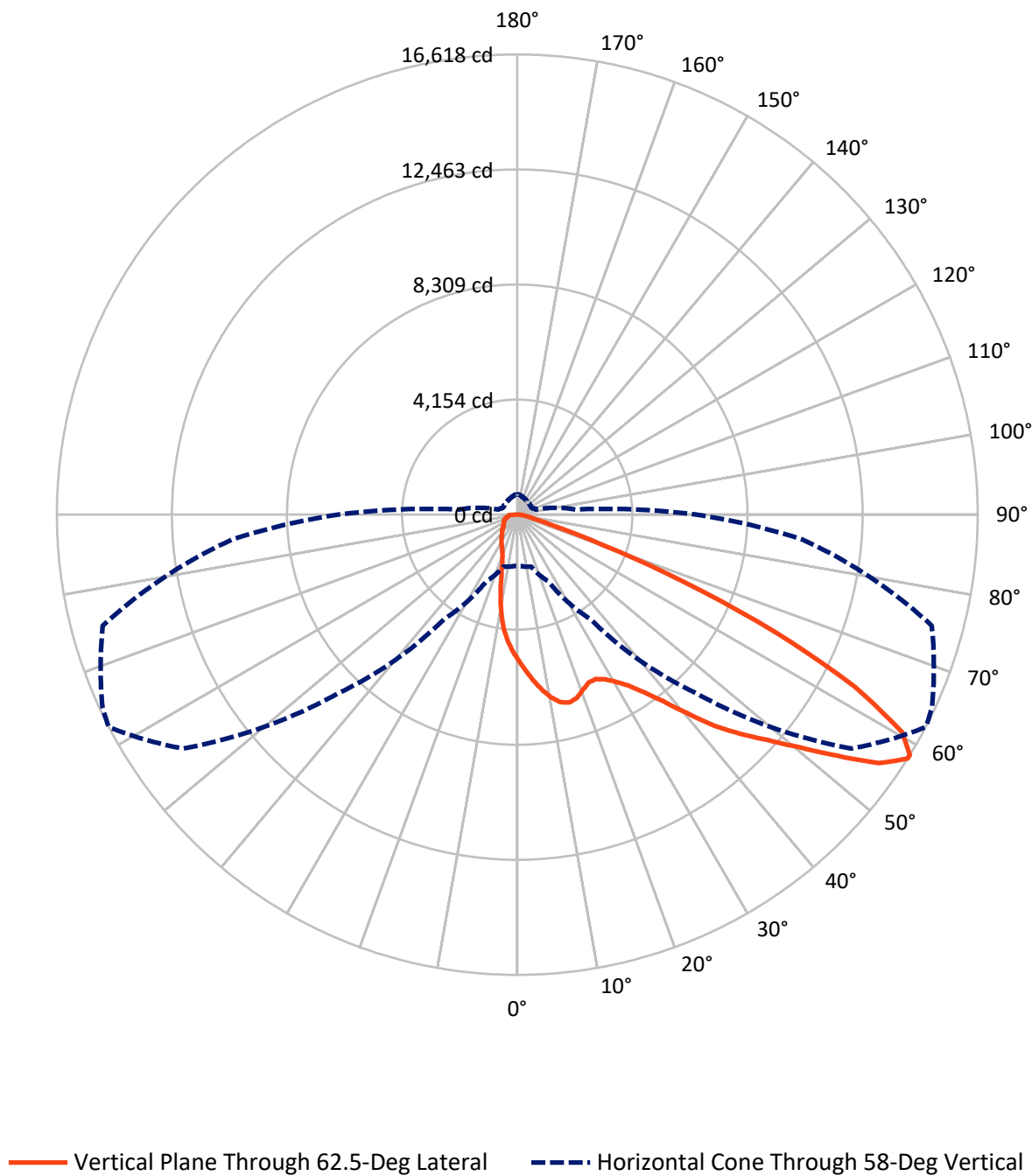


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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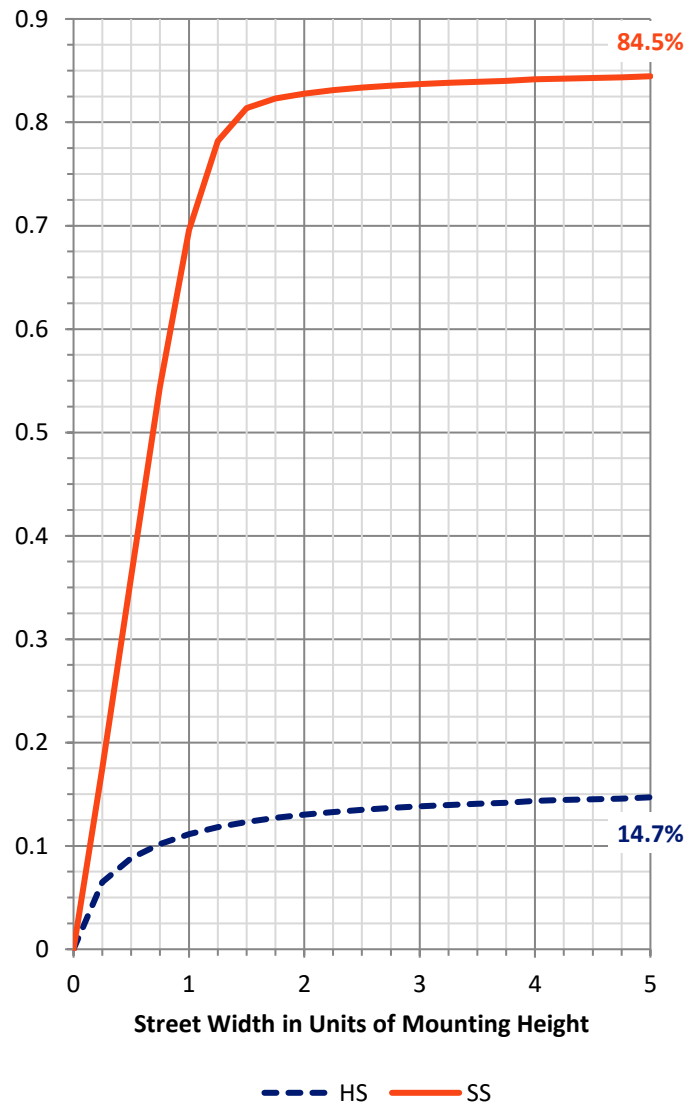
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3016.6	0.0	3016.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	16763.7	0.0	16763.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	19780.3	0.0	19780.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.9	2.4
10°-20°	1201.2	6.1
20°-30°	1941.7	9.8
30°-40°	3082.5	15.6
40°-50°	4510.3	22.8
50°-60°	4717.4	23.8
60°-70°	2787.1	14.1
70°-80°	785.1	4.0
80°-90°	285.0	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°	19780.3	100.0
0°-180°	19780.3	100.0

Coefficient of Utilization



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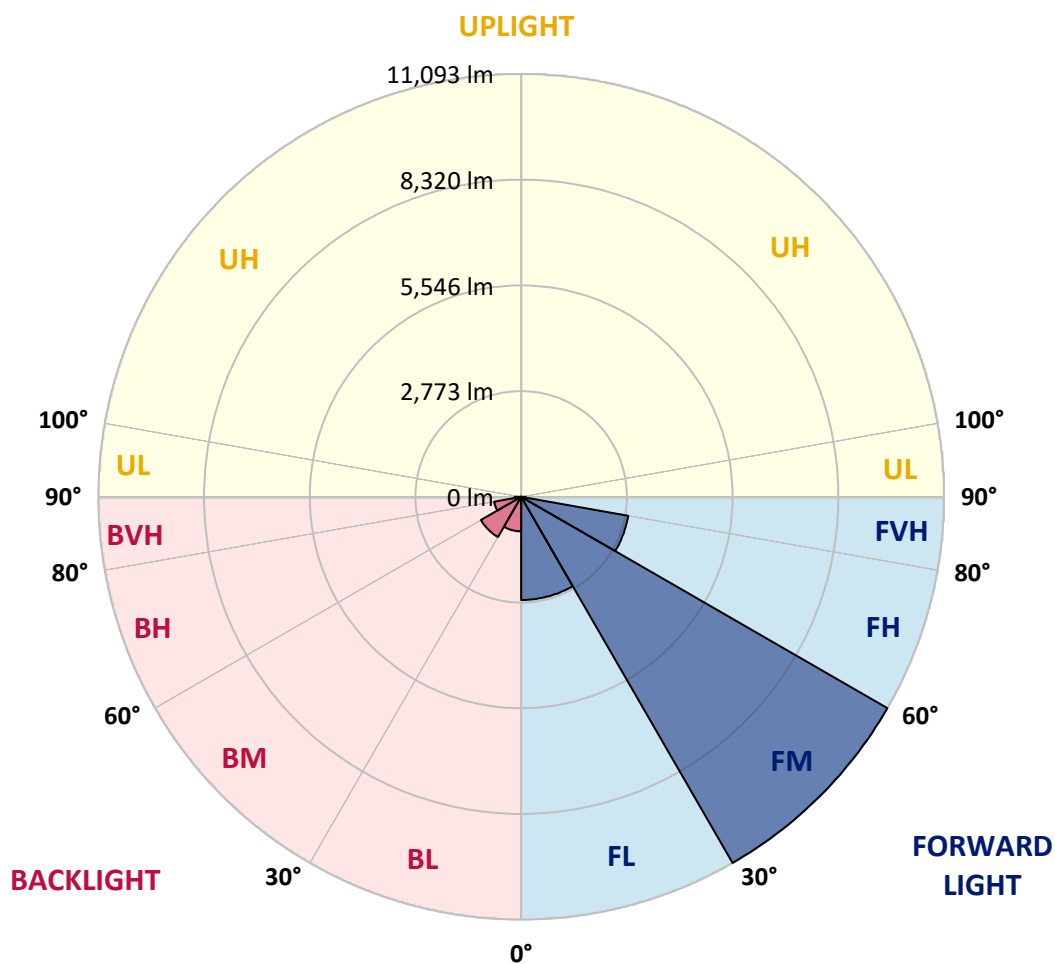
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2706.2	13.7			
FM	(30°-60°)	11092.7	56.1			
FH	(60°-80°)	2852.4	14.4			G2/5000
FVH	(80°-90°)	112.5	0.6			G2/225
BL	(0°-30°)	906.6	4.6	B2/1000		
BM	(30°-60°)	1217.6	6.2	B2/2500		
BH	(60°-80°)	719.8	3.6	B2/1000		G2/1000
BVH	(80°-90°)	172.6	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°	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3
2.5°	6004.1	5955.6	5924.9	5897.9	5862.5	5787.0	5685.6	5621.2	5588.6	5477.8	5346.5
5°	6592.7	6549.9	6518.2	6482.0	6418.6	6300.2	6136.3	6005.9	5941.6	5719.9	5457.3
7.5°	6454.8	6472.5	6527.4	6623.4	6705.5	6689.6	6543.3	6377.6	6292.8	5984.4	5585.8
10°	5624.0	5654.7	5749.8	5974.2	6337.5	6710.0	6823.7	6709.2	6623.4	6246.3	5718.1
12.5°	5457.3	5456.4	5463.8	5523.4	5739.5	6264.0	6833.0	6948.6	6897.3	6495.8	5853.1
15°	5525.2	5527.1	5521.5	5546.6	5613.7	5821.5	6548.0	7040.7	7077.0	6747.3	5992.9
17.5°	5704.1	5699.5	5677.9	5677.9	5702.2	5783.3	6212.7	6955.0	7122.7	6969.9	6115.8
20°	6004.1	5982.6	5925.7	5873.7	5847.5	5891.4	6074.9	6757.5	7043.5	7164.5	6217.3
22.5°	6367.3	6350.5	6258.4	6146.6	6056.2	6055.2	6145.7	6585.3	6906.6	7348.1	6303.0
25°	6836.8	6809.7	6672.8	6494.0	6335.6	6275.1	6300.2	6576.9	6832.1	7547.4	6379.4
27.5°	7388.1	7338.8	7176.7	6918.8	6685.9	6563.9	6527.4	6728.7	6900.0	7794.2	6485.6
30°	8056.9	8000.1	7792.4	7456.2	7127.3	6927.1	6849.8	6997.8	7125.5	8095.1	6656.1
32.5°	8817.9	8736.0	8495.7	8124.9	7692.7	7387.2	7261.5	7353.7	7455.2	8457.4	6869.3
35°	9869.5	9771.7	9424.2	8913.0	8424.9	8004.8	7803.7	7870.6	7969.4	8997.7	7177.7
37.5°	10586.6	10543.0	10311.9	9831.2	9300.3	8817.0	8505.9	8544.9	8600.9	9672.9	7572.5
40°	10580.2	10597.9	10602.5	10607.2	10245.8	9782.8	9448.5	9407.6	9396.3	10414.4	8021.5
42.5°	10050.2	10122.9	10357.6	10833.5	11053.3	10841.0	10534.6	10416.2	10357.6	11288.1	8497.5
45°	9239.0	9278.1	9717.6	10647.2	11466.9	11888.8	11657.0	11284.4	11178.2	12090.9	8892.4
47.5°	8820.7	8863.5	9140.2	10153.6	11462.3	12735.5	12869.6	12159.9	11969.9	12789.6	9233.3
50°	7825.0	7914.4	8262.7	9294.8	11044.0	13124.9	14137.4	13203.1	12810.0	13469.5	9575.2
52.5°	5996.5	6134.5	6524.8	7882.7	9983.1	12932.0	15151.6	14468.0	13912.8	14173.6	9868.6
55°	3782.5	3885.0	4212.9	5567.2	7986.1	11928.9	15536.3	15836.2	15342.6	14840.5	10122.9
57.5°	2056.6	2102.2	2225.2	3073.8	5194.6	9711.2	14975.6	16614.9	16410.0	15406.8	10314.7
58°	1840.5	1871.3	1947.6	2664.0	4606.9	9104.8	14726.9	16617.8	16515.3	15489.8	10329.6
60°	1365.5	1349.7	1281.6	1520.2	2564.2	6289.9	13223.6	15952.7	16253.5	15591.3	10256.9
62.5°	1199.6	1161.5	1022.6	1007.0	1247.2	2897.7	10118.2	13665.0	14375.8	15012.0	9815.6
65°	1127.0	1086.0	907.2	849.5	899.7	1225.8	5960.3	10248.6	11140.0	13255.3	8686.5
67.5°	1073.0	1019.9	833.6	754.4	758.1	810.3	2389.2	6454.8	7458.0	10064.2	6756.6
70°	1020.8	963.1	771.3	679.9	658.5	640.8	950.1	3231.2	4141.2	6357.0	4307.9
72.5°	965.0	908.2	716.3	621.2	579.4	520.6	620.4	1321.7	1846.2	3007.6	1954.1
75°	883.9	832.7	661.3	569.1	509.4	431.2	468.5	690.2	828.0	1197.8	941.7
77.5°	784.3	742.3	599.9	526.3	451.8	350.1	360.4	478.8	530.9	685.5	559.9
80°	563.6	578.4	533.7	473.2	402.4	284.1	276.7	349.3	377.3	440.6	364.2
82.5°	395.8	404.3	441.5	386.6	332.4	223.6	204.0	246.0	262.7	289.6	196.5
85°	272.9	263.7	302.7	269.3	240.3	149.0	139.8	166.7	177.0	179.7	101.5
87.5°	163.9	163.9	175.2	144.3	129.5	77.3	75.5	95.0	101.5	96.9	55.9
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°	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3
2.5°	5268.2	5202.1	5061.4	4948.7	4806.2	4658.2	4575.2	4486.7	4426.2	4382.4	4452.4
5°	5308.3	5173.2	4882.6	4606.9	4302.3	3985.7	3745.3	3521.8	3366.2	3269.4	3360.6
7.5°	5371.6	5163.9	4701.0	4229.7	3682.9	3155.7	2684.4	2389.2	2216.9	2132.0	2185.1
10°	5444.3	5149.0	4487.8	3718.3	2935.9	2271.8	1919.6	1800.5	1761.4	1745.5	1752.9
12.5°	5504.8	5117.2	4225.9	3099.8	2204.8	1793.9	1692.4	1689.5	1698.0	1699.8	1702.7
15°	5547.6	5070.7	3837.5	2455.3	1763.2	1634.6	1629.0	1645.9	1661.8	1668.2	1671.8
17.5°	5576.5	4974.8	3398.8	1941.1	1579.7	1557.4	1570.4	1591.8	1608.7	1613.2	1616.9
20°	5573.8	4834.1	2876.2	1618.7	1480.0	1480.0	1502.5	1519.1	1520.2	1514.6	1517.3
22.5°	5544.8	4641.4	2369.7	1447.4	1391.5	1407.4	1429.7	1414.0	1348.7	1305.8	1308.7
25°	5496.4	4411.3	1935.5	1338.4	1309.6	1337.6	1331.0	1211.8	1118.7	1076.8	1076.8
27.5°	5453.5	4139.3	1602.1	1243.5	1227.6	1262.1	1146.5	1038.5	999.4	979.8	973.4
30°	5422.9	3845.9	1379.5	1152.1	1150.3	1125.2	994.8	965.0	958.4	942.6	937.0
32.5°	5430.3	3548.7	1237.0	1072.1	1078.6	963.1	922.1	928.6	923.0	906.3	898.8
35°	5491.7	3266.6	1143.8	999.4	979.8	869.9	879.3	891.3	889.5	866.2	858.8
37.5°	5601.6	2999.2	1082.3	938.9	855.1	823.4	838.3	856.9	852.2	836.4	830.8
40°	5717.2	2747.8	1032.1	891.3	781.4	791.7	804.8	815.0	819.7	824.4	820.6
42.5°	5829.8	2485.1	970.6	842.9	750.7	761.9	767.5	777.7	802.9	820.6	819.7
45°	5896.9	2238.2	907.2	774.0	726.6	733.0	729.3	749.8	780.5	809.4	810.3
47.5°	5971.4	2046.3	856.9	710.7	703.2	707.9	696.7	717.2	745.1	780.5	784.3
50°	6061.8	1931.8	816.8	660.4	671.6	671.6	668.7	687.4	726.6	767.5	774.9
52.5°	6164.3	1909.5	783.4	624.1	639.9	638.9	641.8	669.6	712.6	752.6	759.2
55°	6289.1	1970.0	747.0	597.1	609.1	612.8	622.2	653.9	690.2	735.9	738.6
57.5°	6434.4	2093.0	718.2	575.6	581.3	593.3	608.2	637.1	676.2	726.6	729.3
58°	6458.6	2119.0	713.5	573.7	575.6	589.6	606.4	634.4	673.5	728.4	731.2
60°	6459.5	2205.6	703.2	565.4	554.2	577.6	596.1	624.1	668.7	734.9	741.5
62.5°	6230.4	2204.8	695.8	553.3	531.9	560.7	582.2	614.8	664.1	750.7	763.8
65°	5486.1	2003.5	660.4	534.6	514.2	545.9	570.0	608.2	677.2	819.7	828.0
67.5°	4291.1	1642.1	594.3	508.6	490.9	530.9	562.5	607.3	691.2	835.5	841.1
70°	2837.1	1228.5	521.6	478.8	466.6	513.2	566.3	638.9	675.3	802.0	787.1
72.5°	1472.6	862.5	462.9	441.5	438.6	497.3	620.4	635.3	659.5	754.4	735.9
75°	773.1	599.0	411.7	400.6	405.2	493.7	732.1	618.5	638.9	721.8	757.2
77.5°	473.2	483.4	367.8	363.3	372.6	482.5	731.2	597.1	609.1	664.1	703.2
80°	316.8	392.1	334.4	335.3	341.9	441.5	656.6	563.6	572.8	627.8	667.8
82.5°	200.3	231.9	303.6	319.5	311.1	364.2	557.9	513.2	526.3	718.2	759.2
85°	101.5	145.4	263.7	307.3	280.4	255.2	452.7	449.9	456.3	517.9	541.2
87.5°	46.6	80.1	205.9	268.2	211.4	159.3	328.8	333.5	359.6	367.8	367.8
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)