

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: P192725

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192725
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-07-LED-E1-AFL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 45826.6 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 448
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



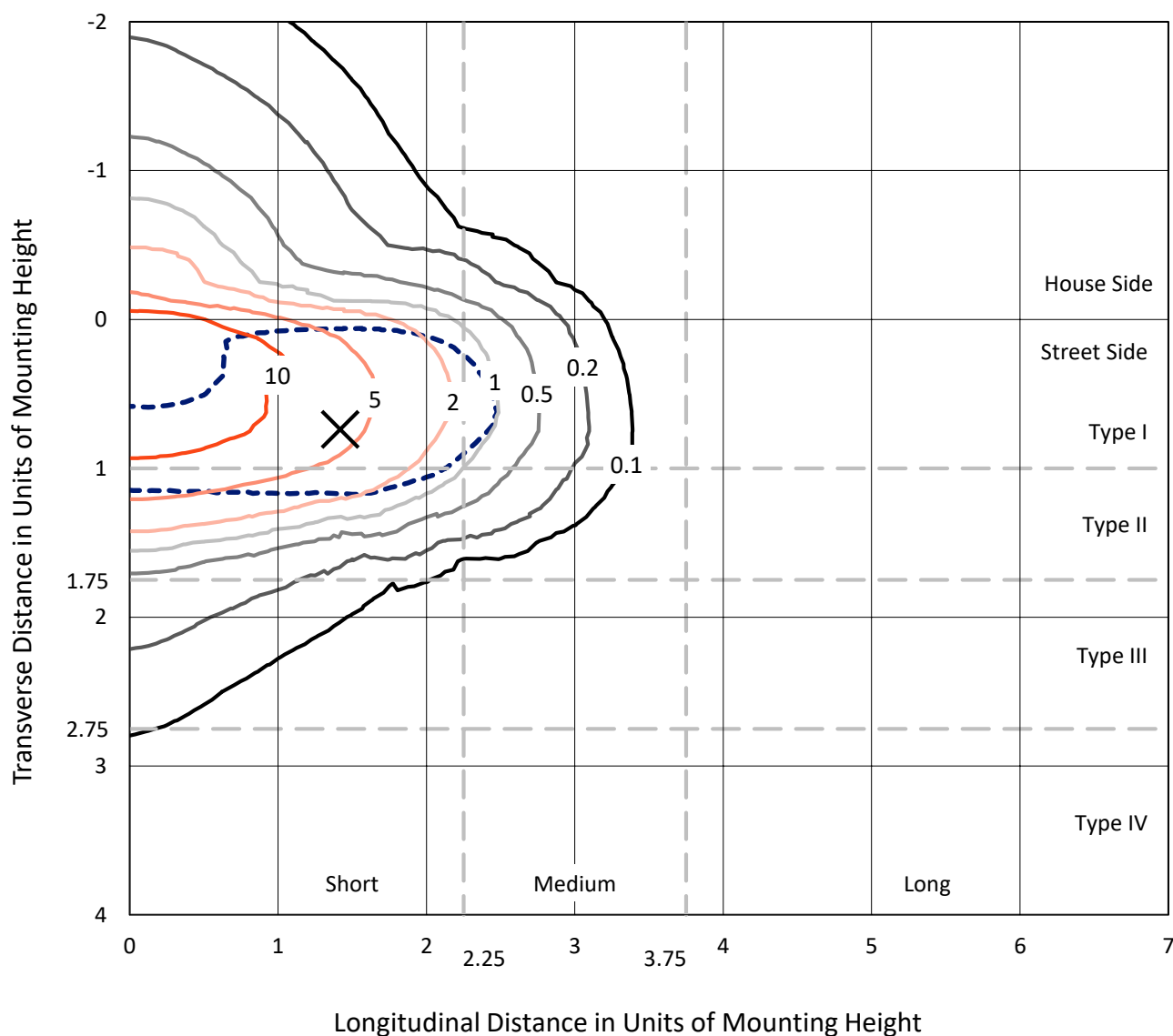
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

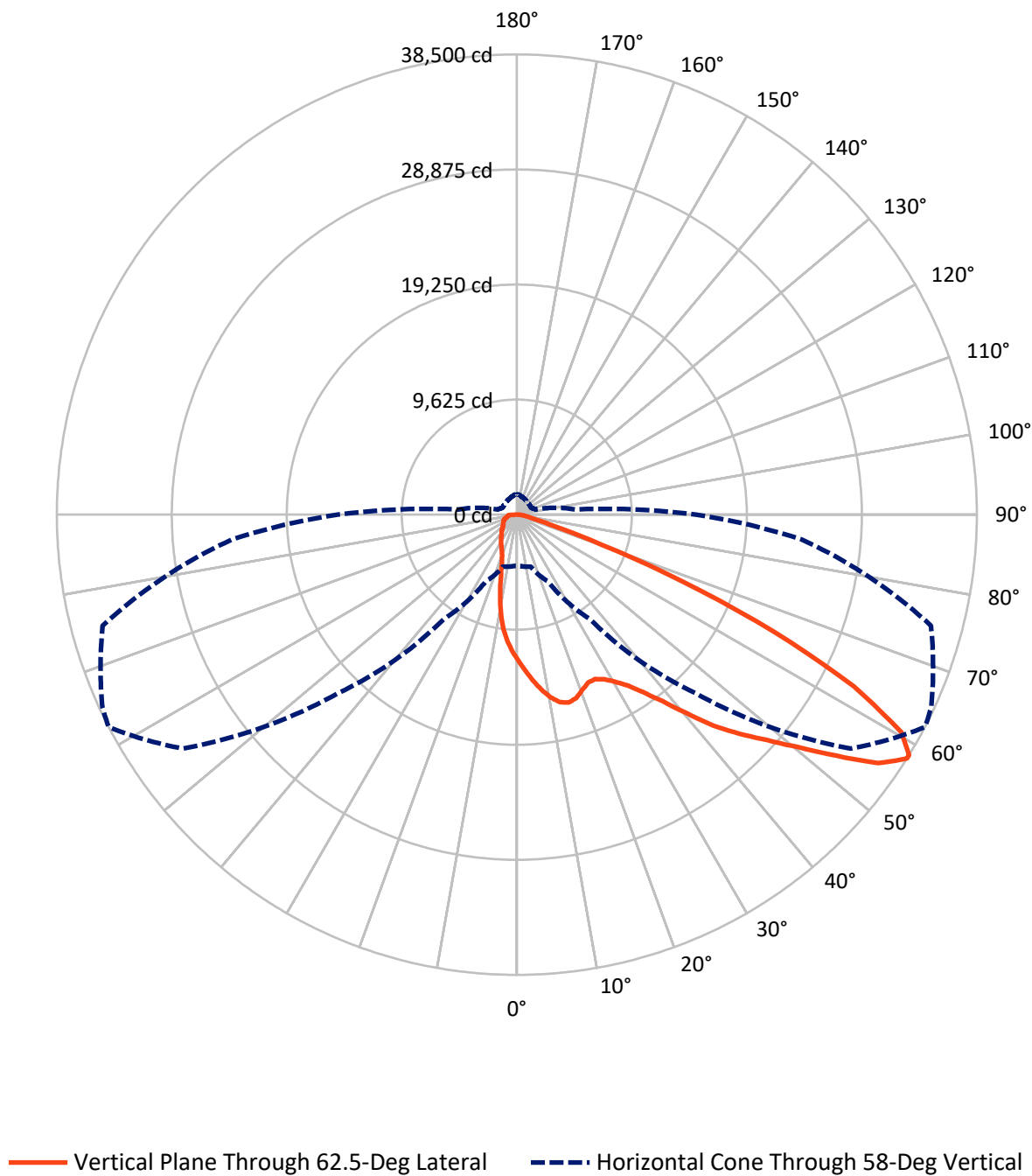


Based on 30 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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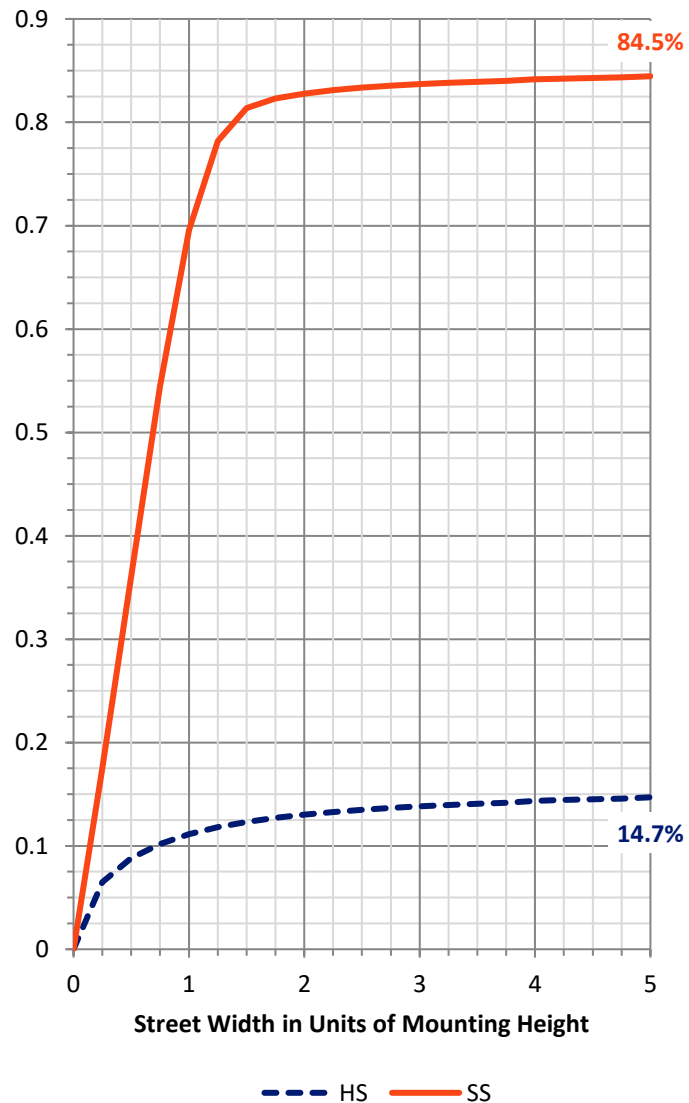
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6988.7	0.0	6988.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	38837.9	0.0	38837.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	45826.6	0.0	45826.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1088.7	2.4
10°-20°	2782.9	6.1
20°-30°	4498.6	9.8
30°-40°	7141.5	15.6
40°-50°	10449.4	22.8
50°-60°	10929.2	23.8
60°-70°	6457.0	14.1
70°-80°	1819.0	4.0
80°-90°	660.4	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°	45826.6	100.0
0°-180°	45826.6	100.0

Coefficient of Utilization



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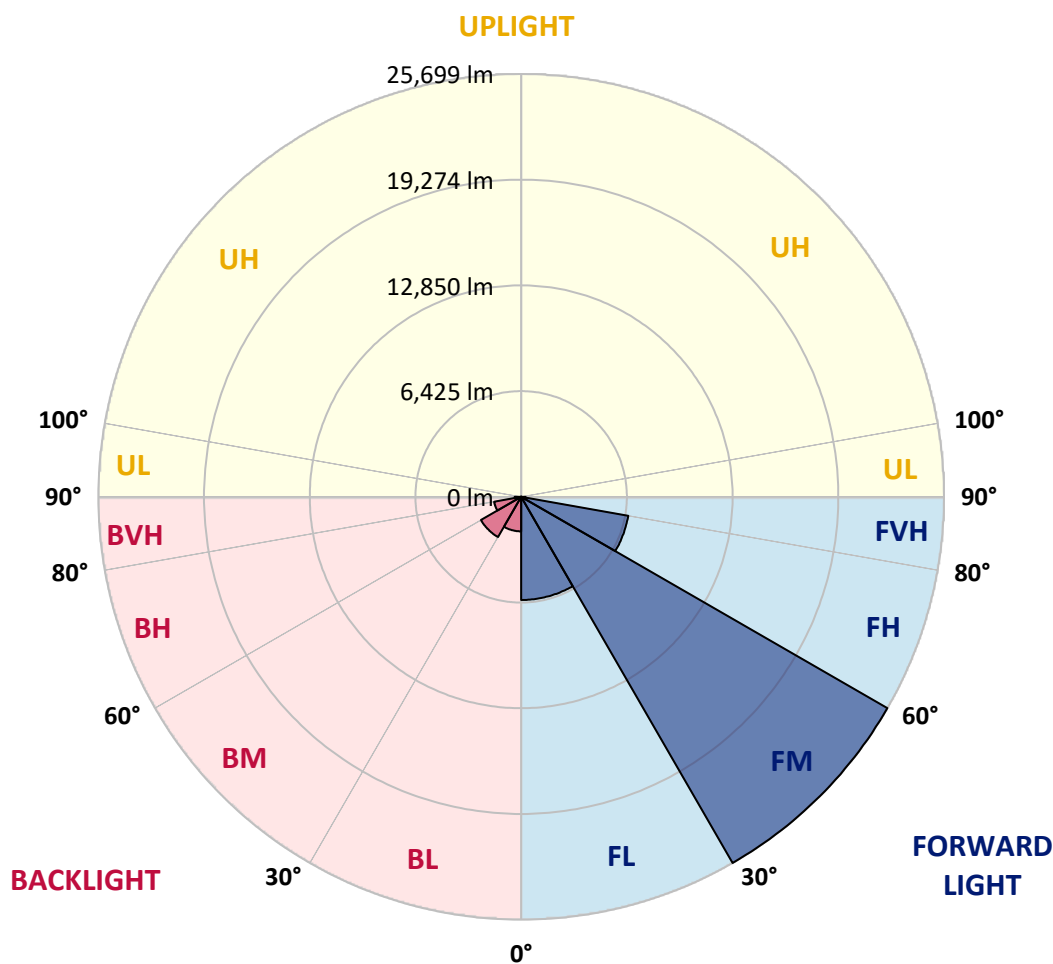
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6269.6	13.7			
FM	(30°-60°)	25699.3	56.1			
FH	(60°-80°)	6608.4	14.4			G3/7500
FVH	(80°-90°)	260.5	0.6			G3/500
BL	(0°-30°)	2100.5	4.6	B3/2500		
BM	(30°-60°)	2820.8	6.2	B3/5000		
BH	(60°-80°)	1667.6	3.6	B3/2500		G3/2500
BVH	(80°-90°)	399.9	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	12172.9	12172.9	12172.9	12172.9	12172.9	12172.9	12172.9	12172.9	12172.9	12172.9	12172.9
2.5°	13910.1	13797.8	13726.6	13664.1	13582.0	13407.2	13172.1	13023.1	12947.6	12690.8	12386.5
5°	15273.9	15174.6	15101.3	15017.0	14870.3	14596.3	14216.5	13914.3	13765.5	13251.8	12643.4
7.5°	14954.6	14995.5	15122.8	15345.0	15534.9	15498.3	15159.5	14775.3	14579.0	13864.7	12941.1
10°	13029.6	13100.8	13320.9	13841.0	14682.6	15545.7	15809.0	15543.6	15345.0	14471.1	13247.5
12.5°	12643.4	12641.2	12658.4	12796.6	13297.2	14512.2	15830.6	16098.1	15979.5	15049.5	13560.5
15°	12800.9	12805.1	12792.2	12850.5	13005.9	13487.1	15170.3	16311.9	16396.0	15632.0	13884.1
17.5°	13215.2	13204.4	13154.9	13154.9	13210.9	13398.6	14393.4	16113.3	16501.8	16147.9	14169.0
20°	13910.1	13860.4	13728.8	13607.9	13547.5	13648.8	14074.0	15655.8	16318.3	16598.7	14404.2
22.5°	14751.6	14712.8	14499.1	14240.2	14030.8	14028.8	14238.0	15256.6	16001.1	17023.9	14602.7
25°	15839.2	15776.7	15459.4	15045.1	14678.2	14538.0	14596.3	15237.2	15828.5	17485.8	14779.7
27.5°	17116.8	17002.4	16626.8	16029.1	15489.6	15206.9	15122.8	15588.9	15985.9	18057.6	15025.7
30°	18666.2	18534.5	18053.2	17274.2	16512.5	16048.5	15869.5	16212.6	16508.2	18754.6	15420.7
32.5°	20429.2	20239.3	19682.5	18823.6	17822.4	17114.6	16823.3	17036.9	17272.1	19594.0	15914.8
35°	22865.4	22638.8	21834.0	20649.2	19518.5	18545.3	18079.1	18234.5	18463.2	20845.7	16629.0
37.5°	24527.1	24425.7	23890.5	22777.0	21547.0	20427.0	19706.2	19796.9	19926.3	22410.1	17544.0
40°	24512.0	24553.0	24563.7	24574.6	23737.2	22664.7	21890.1	21795.1	21769.3	24127.8	18584.1
42.5°	23284.1	23452.4	23996.2	25098.9	25608.1	25116.2	24406.3	24132.2	23996.2	26152.0	19686.9
45°	21404.6	21495.2	22513.8	24667.4	26566.3	27543.8	27006.6	26143.3	25897.4	28012.1	20601.8
47.5°	20435.7	20535.0	21175.7	23523.6	26555.6	29505.5	29816.2	28171.9	27731.6	29630.6	21391.7
50°	18128.9	18336.0	19143.0	21534.0	25586.7	30407.4	32753.0	30588.8	29678.1	31205.9	22183.6
52.5°	13892.8	14212.1	15116.3	18262.5	23128.8	29960.7	35103.2	33519.2	32233.0	32837.4	22863.3
55°	8763.3	9000.8	9760.3	12897.9	18502.1	27636.7	35994.4	36689.2	35545.6	34382.4	23452.4
57.5°	4764.7	4870.4	5155.3	7121.2	12034.8	22498.6	34695.3	38493.2	38018.5	35694.4	23896.9
58°	4264.1	4335.3	4512.2	6171.7	10673.1	21093.8	34119.1	38499.6	38262.4	35886.4	23931.5
60°	3163.5	3126.9	2969.3	3521.8	5940.8	14572.6	30636.2	36958.9	37655.9	36121.6	23763.2
62.5°	2779.4	2690.9	2369.4	2332.6	2889.5	6713.3	23441.7	31659.1	33305.5	34779.4	22740.3
65°	2611.1	2516.1	2101.8	1968.1	2084.5	2839.8	13808.6	23743.7	25808.9	30709.6	20124.9
67.5°	2485.9	2363.0	1931.3	1747.9	1756.6	1877.4	5535.1	14954.6	17278.6	23316.5	15653.7
70°	2365.1	2231.3	1786.7	1575.3	1525.7	1484.7	2201.1	7485.9	9594.2	14727.9	9980.4
72.5°	2235.7	2104.0	1659.4	1439.4	1342.2	1206.3	1437.2	3062.1	4277.1	6968.0	4527.3
75°	2047.8	1929.2	1532.2	1318.5	1180.4	999.1	1085.5	1599.0	1918.4	2775.0	2181.7
77.5°	1817.0	1719.8	1389.7	1219.3	1046.6	811.4	835.1	1109.2	1230.0	1588.2	1296.9
80°	1305.5	1340.1	1236.5	1096.2	932.2	658.2	641.0	809.2	874.0	1020.7	843.7
82.5°	917.1	936.6	1022.8	895.5	770.4	517.9	472.5	569.7	608.6	671.1	455.3
85°	632.3	610.6	701.3	623.7	556.7	345.3	323.7	386.2	410.0	416.5	235.2
87.5°	379.7	379.7	405.7	334.5	299.9	179.0	174.9	220.1	235.2	224.4	129.5
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°	12172.9	12172.9	12172.9	12172.9	12172.9	12172.9	12172.9	12172.9	12172.9	12172.9	12172.9
2.5°	12205.3	12052.1	11726.2	11465.1	11134.9	10791.9	10599.8	10394.8	10254.5	10153.0	10314.9
5°	12298.1	11985.2	11311.9	10673.1	9967.5	9233.8	8677.1	8159.2	7798.8	7574.4	7785.9
7.5°	12444.8	11963.6	10891.1	9799.1	8532.5	7311.1	6219.1	5535.1	5135.8	4939.5	5062.5
10°	12613.1	11929.0	10396.9	8614.4	6801.8	5263.2	4447.5	4171.3	4080.7	4044.0	4061.2
12.5°	12753.4	11855.7	9790.5	7181.6	5107.9	4156.2	3921.0	3914.5	3933.9	3938.2	3944.7
15°	12852.6	11747.8	8890.7	5688.4	4084.9	3787.2	3774.3	3813.0	3849.7	3864.8	3873.5
17.5°	12919.6	11525.5	7874.4	4497.1	3659.8	3608.1	3638.3	3687.9	3726.8	3737.5	3746.2
20°	12913.1	11199.7	6663.7	3750.6	3429.0	3429.0	3480.8	3519.6	3521.8	3508.8	3515.3
22.5°	12846.1	10753.0	5489.7	3353.3	3223.9	3260.7	3312.4	3275.7	3124.7	3025.4	3032.0
25°	12733.9	10220.0	4484.2	3101.0	3034.0	3098.8	3083.8	2807.5	2591.6	2494.6	2494.6
27.5°	12634.7	9589.9	3711.6	2880.8	2844.1	2924.0	2656.4	2406.1	2315.4	2270.2	2255.0
30°	12563.5	8910.1	3196.0	2669.3	2665.1	2606.8	2304.8	2235.7	2220.4	2183.9	2170.9
32.5°	12580.7	8221.8	2865.8	2483.8	2498.9	2231.3	2136.3	2151.5	2138.5	2099.6	2082.4
35°	12723.1	7567.9	2650.0	2315.4	2270.2	2015.5	2037.1	2065.1	2060.8	2006.9	1989.6
37.5°	12977.9	6948.6	2507.5	2175.3	1981.0	1907.6	1942.2	1985.4	1974.6	1937.8	1924.9
40°	13245.4	6365.9	2391.0	2065.1	1810.5	1834.3	1864.5	1888.2	1899.0	1909.8	1901.1
42.5°	13506.5	5757.4	2248.5	1952.9	1739.3	1765.2	1778.0	1801.9	1860.1	1901.1	1899.0
45°	13661.9	5185.6	2101.8	1793.3	1683.1	1698.3	1689.7	1737.1	1808.4	1875.2	1877.4
47.5°	13834.5	4741.0	1985.4	1646.5	1629.3	1640.0	1614.1	1661.7	1726.3	1808.4	1817.0
50°	14043.8	4475.6	1892.5	1529.9	1555.9	1555.9	1549.4	1592.6	1683.1	1778.0	1795.3
52.5°	14281.2	4423.8	1814.8	1445.8	1482.5	1480.4	1486.8	1551.6	1650.8	1743.6	1758.7
55°	14570.4	4564.0	1730.6	1383.2	1411.3	1420.0	1441.4	1514.9	1599.0	1704.8	1711.2
57.5°	14907.0	4848.9	1663.8	1333.6	1346.5	1374.6	1409.1	1476.0	1566.7	1683.1	1689.7
58°	14963.2	4909.3	1653.0	1329.2	1333.6	1366.0	1404.8	1469.5	1560.2	1687.5	1693.9
60°	14965.2	5109.9	1629.3	1309.9	1284.1	1337.9	1381.0	1445.8	1549.4	1702.6	1717.7
62.5°	14434.5	5107.9	1612.0	1281.8	1232.2	1299.1	1348.7	1424.2	1538.6	1739.3	1769.5
65°	12710.2	4641.8	1529.9	1238.7	1191.2	1264.5	1320.6	1409.1	1568.9	1899.0	1918.4
67.5°	9941.6	3804.4	1376.7	1178.3	1137.3	1230.0	1303.4	1406.9	1601.2	1935.6	1948.6
70°	6573.0	2846.3	1208.4	1109.2	1081.1	1189.1	1311.9	1480.4	1564.5	1858.0	1823.4
72.5°	3411.7	1998.3	1072.5	1022.8	1016.4	1152.3	1437.2	1471.7	1527.8	1747.9	1704.8
75°	1791.1	1387.6	953.9	927.9	938.7	1143.7	1696.1	1432.8	1480.4	1672.4	1754.3
77.5°	1096.2	1120.0	852.3	841.7	863.1	1117.8	1693.9	1383.2	1411.3	1538.6	1629.3
80°	733.6	908.5	774.6	776.9	791.9	1022.8	1521.3	1305.5	1327.2	1454.5	1547.2
82.5°	464.0	537.3	703.5	740.1	720.8	843.7	1292.6	1189.1	1219.3	1663.8	1758.7
85°	235.2	336.6	610.6	712.2	649.5	591.3	1048.8	1042.4	1057.4	1199.7	1253.8
87.5°	107.9	185.6	476.9	621.4	489.8	369.0	761.7	772.6	833.0	852.3	852.3
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)