

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: P193218

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T3R-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38386 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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



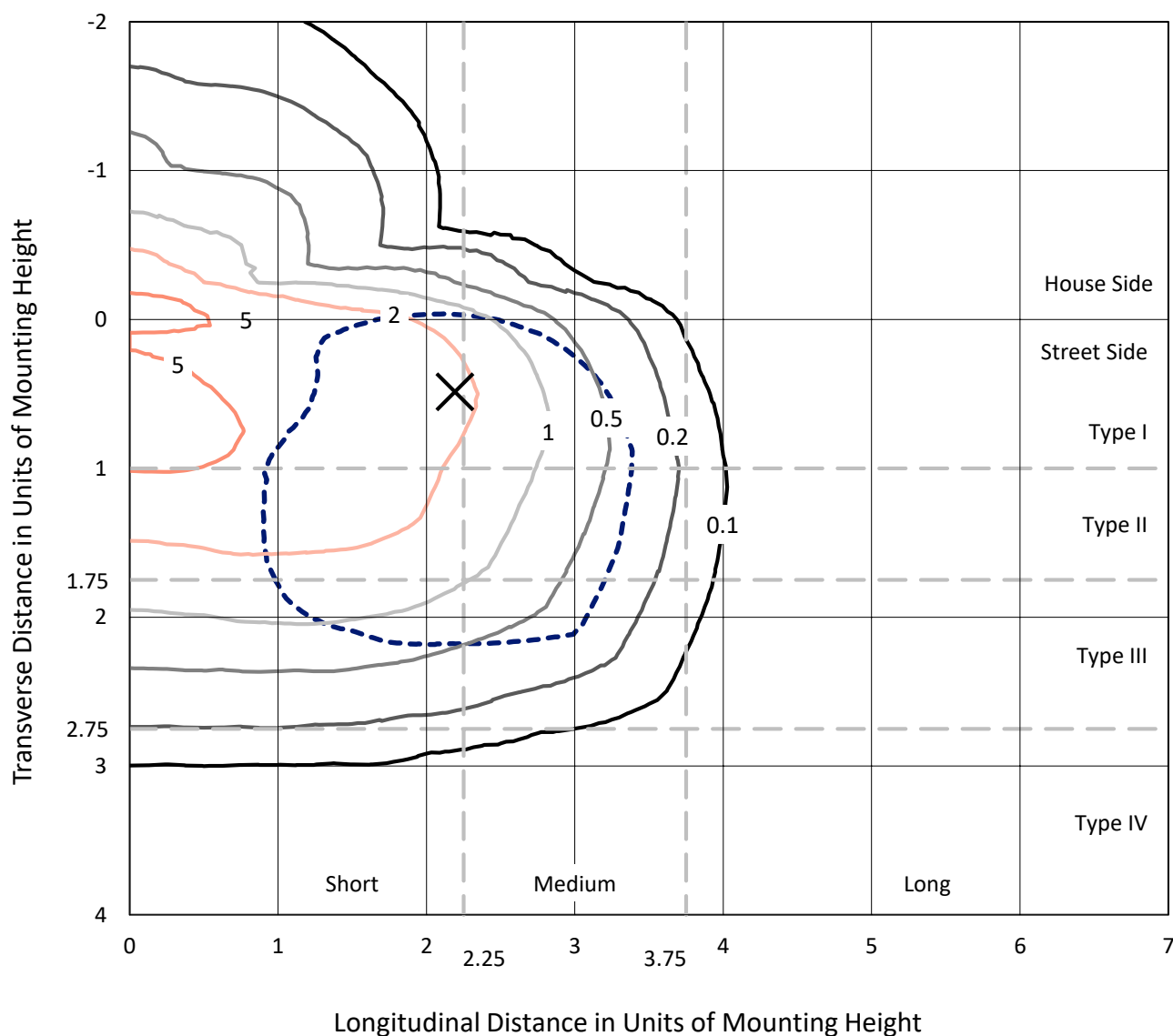
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

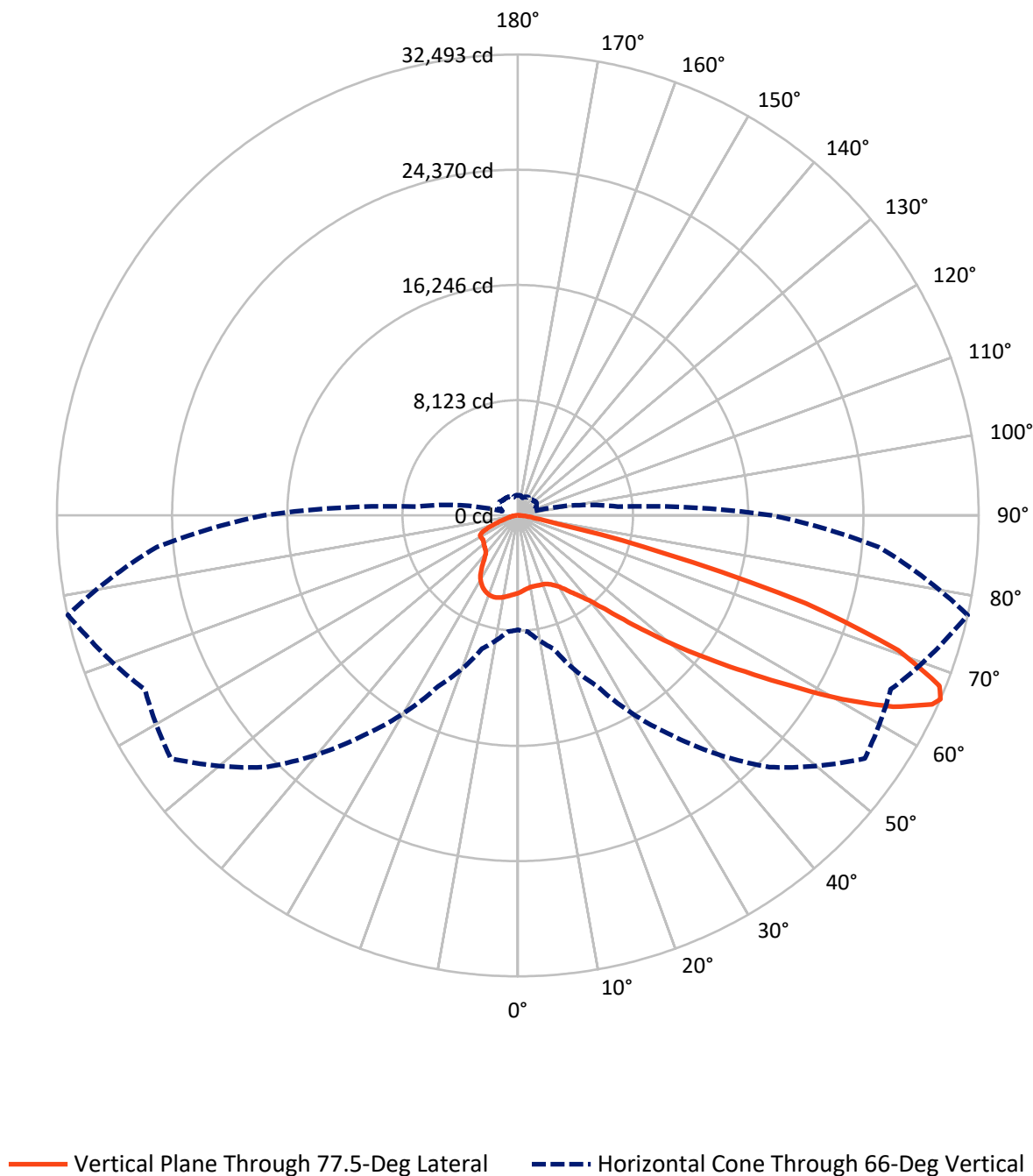


Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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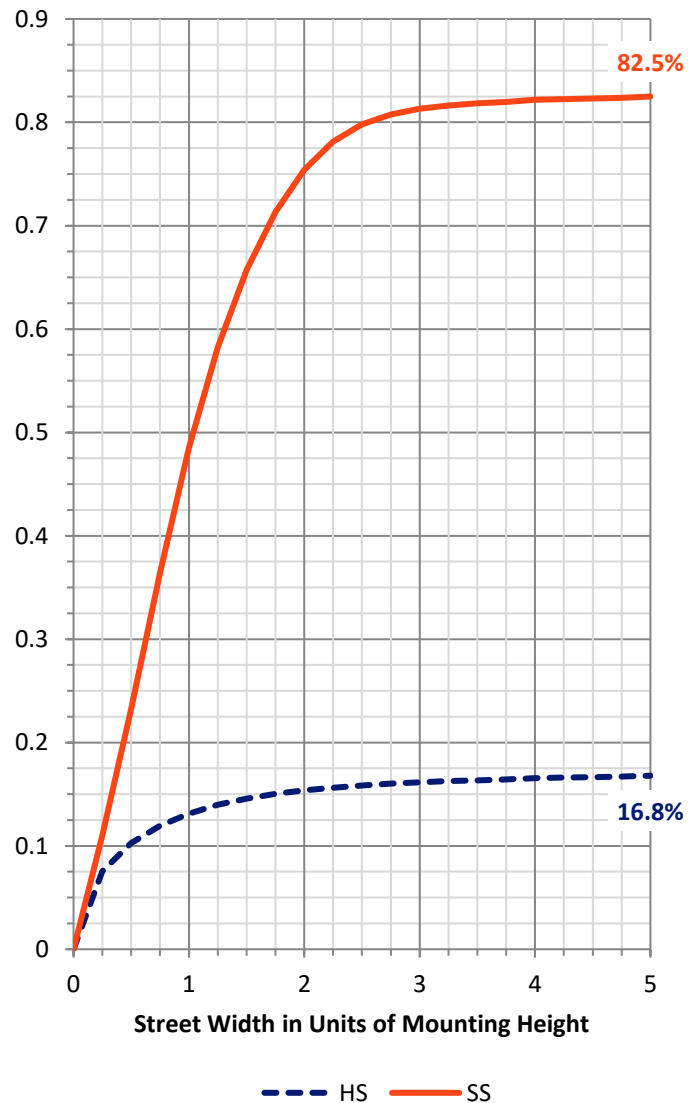
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6558.0	0.0	6558.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	31828.0	0.0	31828.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	38386.0	0.0	38386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.7	1.3
10°-20°	1378.7	3.6
20°-30°	2353.1	6.1
30°-40°	3766.8	9.8
40°-50°	5819.4	15.2
50°-60°	8253.9	21.5
60°-70°	11041.5	28.8
70°-80°	4795.1	12.5
80°-90°	488.9	1.3
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°	38386.0	100.0
0°-180°	38386.0	100.0

Coefficient of Utilization



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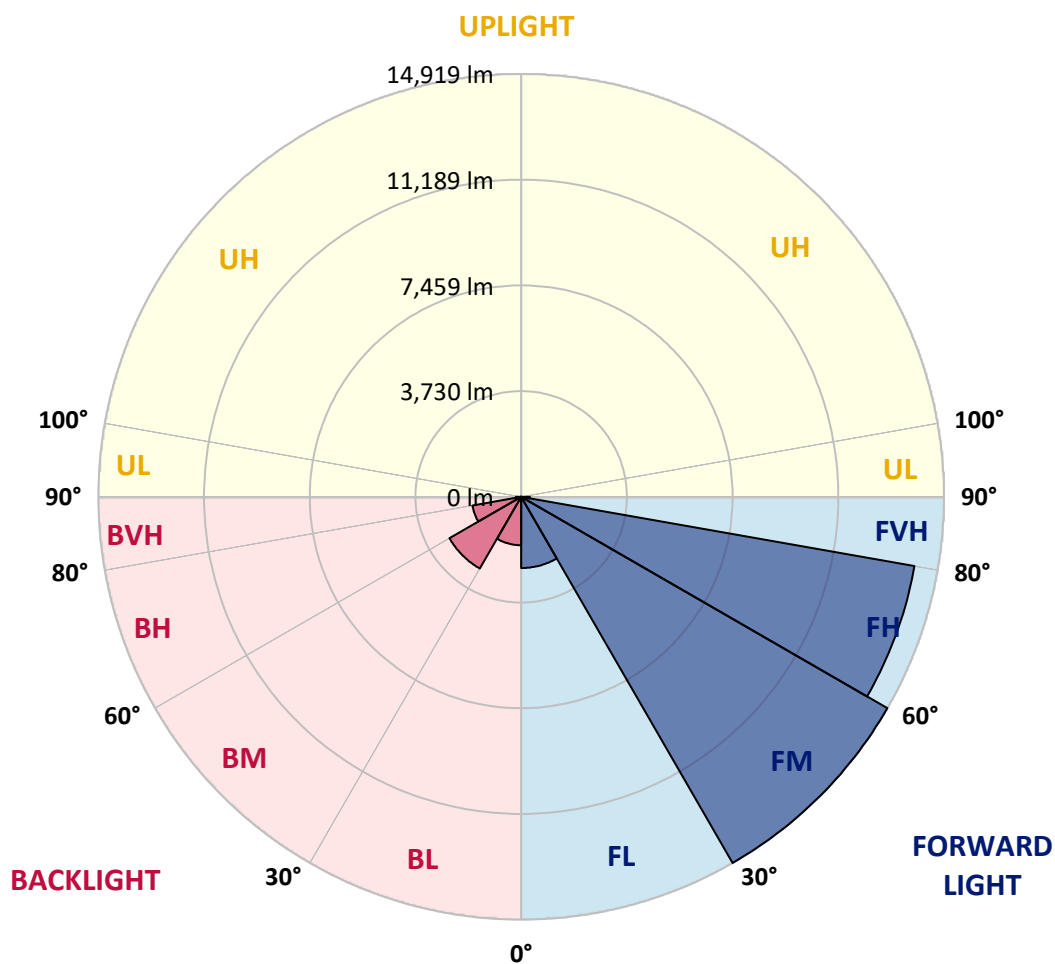
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2512.5	6.5			
FM	(30°-60°)	14918.8	38.9			
FH	(60°-80°)	14090.0	36.7			G5
FVH	(80°-90°)	306.7	0.8			G3/500
BL	(0°-30°)	1708.0	4.4	B3/2500		
BM	(30°-60°)	2921.2	7.6	B3/5000		
BH	(60°-80°)	1746.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	182.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2
2.5°	4839.0	4871.7	4898.8	4924.4	4975.0	5058.4	5154.7	5232.7	5345.1	5366.9	5426.7
5°	4394.6	4394.6	4416.4	4454.5	4523.5	4648.6	4779.2	4953.3	5198.1	5256.1	5415.8
7.5°	4178.8	4180.6	4193.4	4225.9	4285.8	4400.1	4543.3	4748.3	5080.2	5176.3	5448.4
10°	4258.6	4240.5	4213.2	4196.9	4206.1	4273.1	4409.1	4637.7	5007.7	5131.1	5521.0
12.5°	4704.8	4670.4	4576.0	4450.9	4331.1	4282.2	4361.9	4585.1	4976.9	5120.1	5617.1
15°	5433.9	5419.4	5243.5	4984.1	4693.9	4450.9	4396.5	4565.2	4980.5	5132.9	5731.4
17.5°	6348.1	6328.1	6095.9	5718.6	5245.3	4771.9	4518.0	4581.5	4993.1	5154.7	5842.0
20°	7271.2	7209.6	6959.3	6509.4	5901.8	5209.1	4719.4	4623.2	5009.5	5178.3	5958.1
22.5°	7960.4	7909.6	7684.7	7247.6	6547.6	5715.1	4989.6	4695.8	5062.1	5247.0	6101.4
25°	8566.3	8569.9	8346.8	7924.1	7200.5	6252.0	5337.8	4889.8	5196.4	5388.5	6297.2
27.5°	9315.3	9271.7	9063.2	8644.3	7846.1	6794.2	5758.6	5156.4	5395.9	5589.9	6554.8
30°	10211.3	10180.4	9939.2	9464.0	8562.6	7376.4	6239.2	5466.6	5653.4	5854.6	6892.2
32.5°	11265.0	11250.5	11000.2	10389.0	9389.6	8062.0	6803.2	5876.5	6037.8	6246.5	7376.4
35°	12502.0	12503.8	12208.2	11473.7	10294.7	8860.1	7443.5	6404.2	6505.9	6723.5	7953.2
37.5°	13263.7	13356.3	13245.6	12496.5	11319.5	9752.4	8274.2	7104.4	7039.0	7258.5	8571.7
40°	13427.0	13539.4	13889.5	13508.6	12465.7	10735.5	9010.6	7777.3	7695.6	7964.0	9367.9
42.5°	13198.5	13354.4	14094.5	14362.9	13682.7	11947.0	10000.8	8776.6	8673.2	9034.2	10358.3
45°	13062.5	13178.6	14034.6	14807.3	14738.3	13316.4	11261.5	10031.7	9993.6	10467.0	11500.8
47.5°	12826.7	12931.8	13755.3	14910.6	15358.6	14571.5	12775.9	11566.0	11640.5	12260.7	12790.4
50°	12953.7	12997.2	13443.4	14647.7	15538.2	15491.0	14468.1	13343.7	13597.6	14372.0	14250.4
52.5°	12935.5	13048.0	13407.1	14215.9	15561.8	16058.7	16134.9	15326.1	15861.0	16749.8	15870.1
55°	10458.0	10664.7	12980.9	14107.1	15645.2	16615.5	17618.5	17415.4	18412.9	19448.5	17698.4
57.5°	9986.4	10117.0	11401.1	14335.7	16087.8	17678.3	19269.0	19715.2	21383.7	22586.3	19925.6
60°	9893.9	10055.2	11384.7	14614.9	16985.6	19410.5	21715.8	22499.2	24998.6	26315.3	22508.3
62.5°	9605.5	9779.6	11277.7	14578.7	18260.6	21806.4	24848.1	25459.3	28426.5	29707.0	24668.4
65°	8691.3	8854.6	10405.3	13993.0	19120.3	24363.7	28555.4	28172.6	31132.6	32095.7	25745.9
66°	8065.6	8225.2	9717.9	13303.6	18920.8	25089.3	29868.4	29012.3	31738.4	32492.9	25535.4
67.5°	6921.1	7046.3	8383.0	11760.2	17859.7	25292.4	30973.1	29643.5	31801.9	32068.4	24332.9
70°	4372.9	4409.1	5448.4	8118.2	13519.5	21935.2	29291.7	28076.5	29179.3	28457.3	20398.9
72.5°	1897.2	1884.5	2615.3	4129.9	7653.9	14718.5	23694.5	23166.7	22889.2	21242.4	14279.4
75°	1055.6	1070.0	1358.5	1917.1	3110.5	7229.4	15500.1	14832.6	12523.8	10686.4	6475.0
77.5°	847.0	867.0	1126.4	1360.3	1396.6	2521.0	7253.0	5901.8	3553.1	2851.2	1799.2
80°	669.2	705.5	983.0	1059.3	941.4	1039.3	2343.3	1873.6	1405.6	1289.6	932.3
82.5°	529.6	555.0	843.4	801.6	658.4	700.2	1122.7	1093.6	914.1	832.4	538.6
85°	380.9	428.1	692.8	603.9	431.7	471.6	745.4	714.5	524.1	428.1	237.6
87.5°	156.0	203.1	489.7	400.9	241.3	219.5	371.8	350.0	248.4	181.4	117.9
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°	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2
2.5°	5464.7	5508.3	5564.5	5599.0	5617.1	5629.8	5649.8	5647.9	5653.4	5655.2	5662.5
5°	5500.9	5573.6	5655.2	5677.0	5677.0	5657.0	5637.0	5604.5	5591.7	5588.1	5591.7
7.5°	5595.3	5675.2	5745.8	5720.5	5666.0	5586.3	5482.8	5392.2	5343.3	5326.9	5323.3
10°	5715.1	5811.2	5840.2	5744.1	5584.5	5392.2	5187.3	5038.5	4953.3	4929.7	4922.4
12.5°	5860.1	5950.8	5910.9	5707.8	5412.1	5102.0	4819.1	4581.5	4403.7	4347.5	4343.8
15°	6019.7	6090.4	5950.8	5595.3	5154.7	4697.6	4193.4	3783.4	3562.2	3491.4	3486.0
17.5°	6168.4	6204.8	5927.2	5399.5	4775.5	4035.5	3366.3	3050.7	2974.5	2992.6	2996.3
20°	6295.4	6295.4	5847.4	5118.4	4178.8	3163.2	2740.5	2735.1	2789.5	2843.9	2854.8
22.5°	6435.1	6351.7	5707.8	4721.1	3333.6	2588.2	2526.5	2577.3	2638.9	2698.8	2707.9
25°	6607.5	6397.0	5513.8	4119.0	2620.8	2350.6	2374.2	2415.8	2446.8	2484.8	2490.2
27.5°	6799.6	6455.0	5258.0	3290.2	2274.4	2201.9	2220.0	2234.5	2230.8	2245.4	2249.0
30°	7030.0	6522.1	4907.9	2571.9	2131.1	2075.0	2042.3	2029.6	2029.6	2053.1	2062.2
32.5°	7338.3	6621.8	4405.6	2203.6	2062.2	1984.2	1879.0	1831.8	1850.0	1929.8	1948.0
35°	7677.5	6728.9	3725.4	2078.5	2047.7	1942.5	1779.3	1692.2	1694.1	1768.4	1792.0
37.5°	8047.5	6865.0	2979.9	2054.9	2080.3	1944.3	1726.7	1606.9	1558.0	1558.0	1567.1
40°	8520.9	7004.6	2412.2	2071.2	2149.2	1966.1	1699.4	1539.9	1402.1	1405.6	1412.9
42.5°	9137.6	7124.4	2107.5	2105.8	2232.7	1995.1	1697.7	1451.0	1331.4	1412.9	1487.2
45°	9823.2	7184.2	1973.3	2136.6	2299.8	2013.2	1668.6	1436.4	1340.4	1583.3	1724.8
47.5°	10612.2	7149.7	1898.9	2147.5	2316.1	2013.2	1635.9	1470.9	1403.9	1833.7	1998.7
50°	11477.2	7050.0	1826.4	2125.6	2310.8	2009.6	1666.9	1505.4	1427.4	1877.2	1991.5
52.5°	12494.8	6966.5	1750.3	2078.5	2272.6	1989.6	1703.2	1490.9	1353.0	1706.7	1786.5
55°	13655.6	6990.1	1665.0	2011.5	2212.7	1951.6	1690.4	1432.8	1275.0	1503.6	1552.6
57.5°	15139.2	7271.2	1563.4	1926.1	2131.1	1888.1	1645.0	1405.6	1251.4	1363.9	1392.9
60°	16795.2	7760.9	1436.4	1840.9	2029.6	1786.5	1610.6	1418.3	1262.4	1353.0	1367.6
62.5°	18010.3	8045.7	1327.6	1715.8	1891.8	1674.1	1567.1	1434.7	1291.3	1391.1	1387.5
65°	18340.4	7577.7	1191.6	1532.6	1704.9	1556.2	1512.7	1452.8	1304.1	1422.0	1405.6
66°	17877.9	7073.6	1131.8	1447.3	1610.6	1498.2	1485.5	1451.0	1298.6	1425.7	1398.4
67.5°	16755.2	6039.8	1028.3	1322.2	1460.0	1411.1	1441.9	1434.7	1284.2	1422.0	1383.9
70°	13664.6	4120.8	879.6	1100.9	1215.2	1242.4	1358.5	1376.6	1237.0	1358.5	1275.0
72.5°	9547.4	2510.2	778.0	854.3	983.0	1059.3	1244.3	1296.8	1173.5	1186.2	1106.4
75°	4614.1	1333.1	705.5	662.0	763.6	885.1	1106.4	1187.9	1073.7	992.1	963.1
77.5°	1438.3	814.3	598.5	533.1	598.5	714.5	925.0	1041.1	955.8	830.7	819.8
80°	772.7	598.5	460.6	428.1	473.4	560.4	727.3	868.7	821.6	745.4	665.6
82.5°	509.7	388.1	341.0	331.9	360.9	428.1	540.5	720.0	720.0	638.4	464.4
85°	263.0	237.6	234.0	234.0	252.1	284.7	368.2	555.0	591.3	337.4	279.2
87.5°	130.6	136.0	127.0	132.4	141.5	139.7	175.9	279.2	333.7	205.0	170.5
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)