

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: P193095

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26328.2 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 226
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



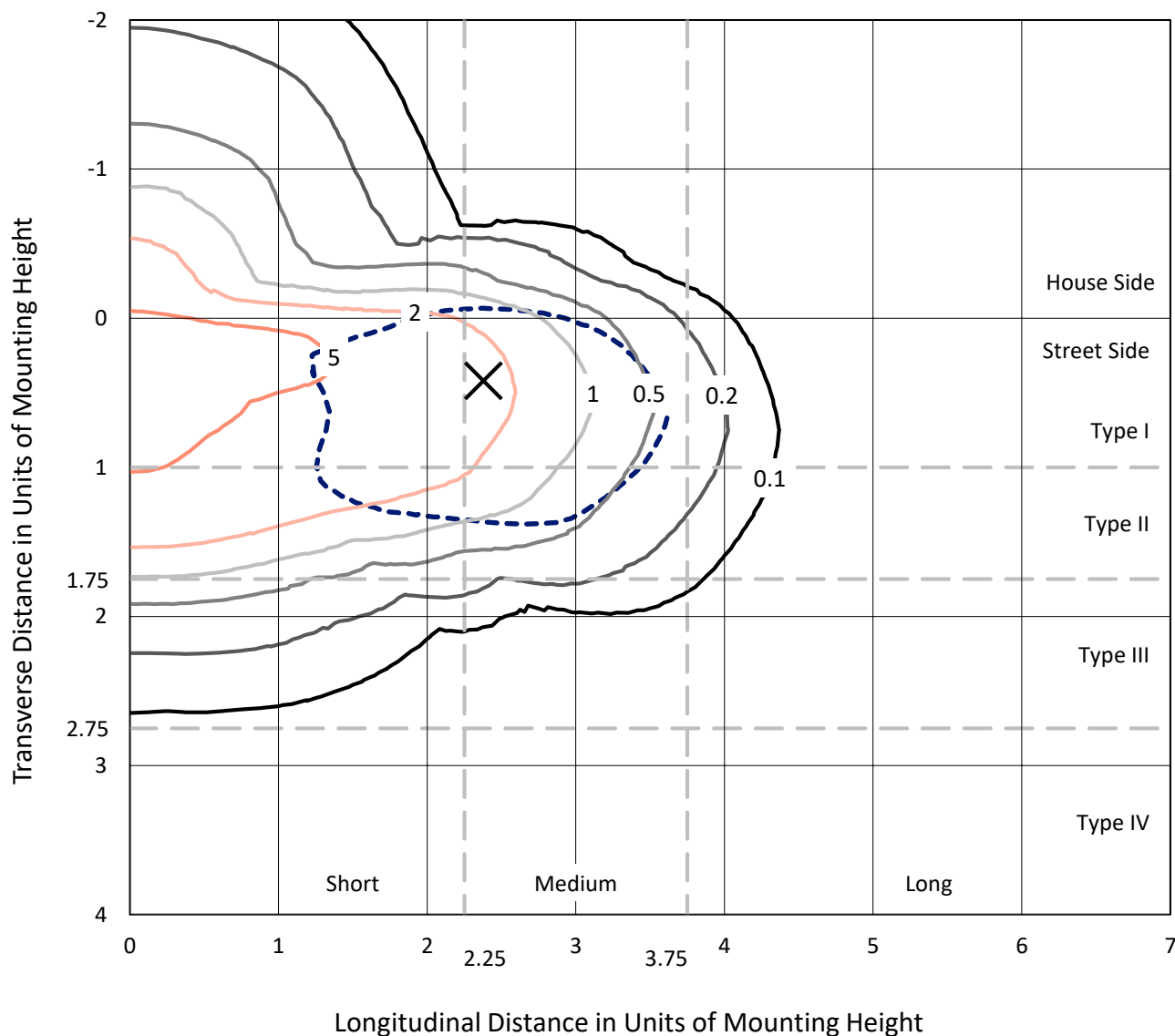
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

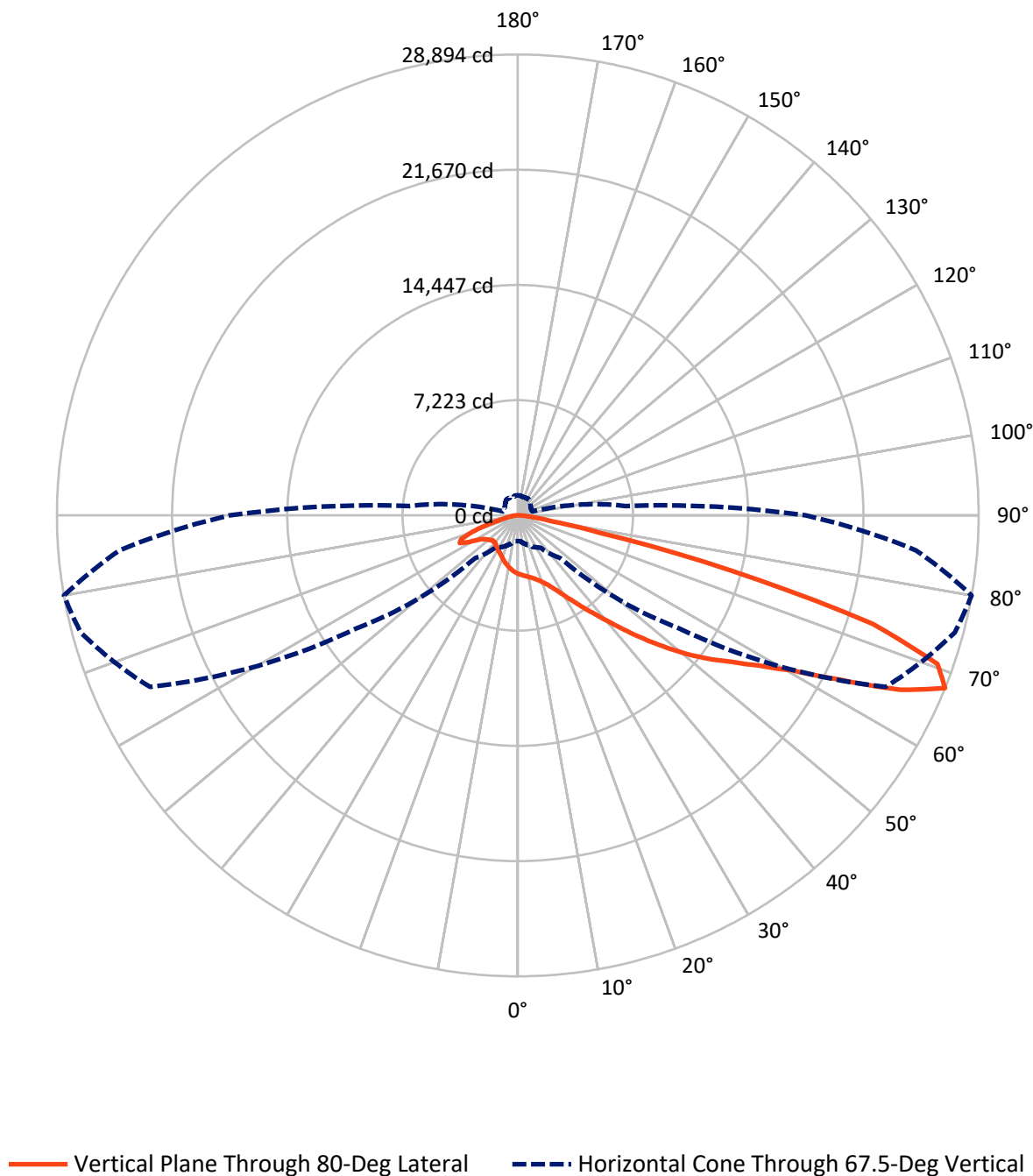


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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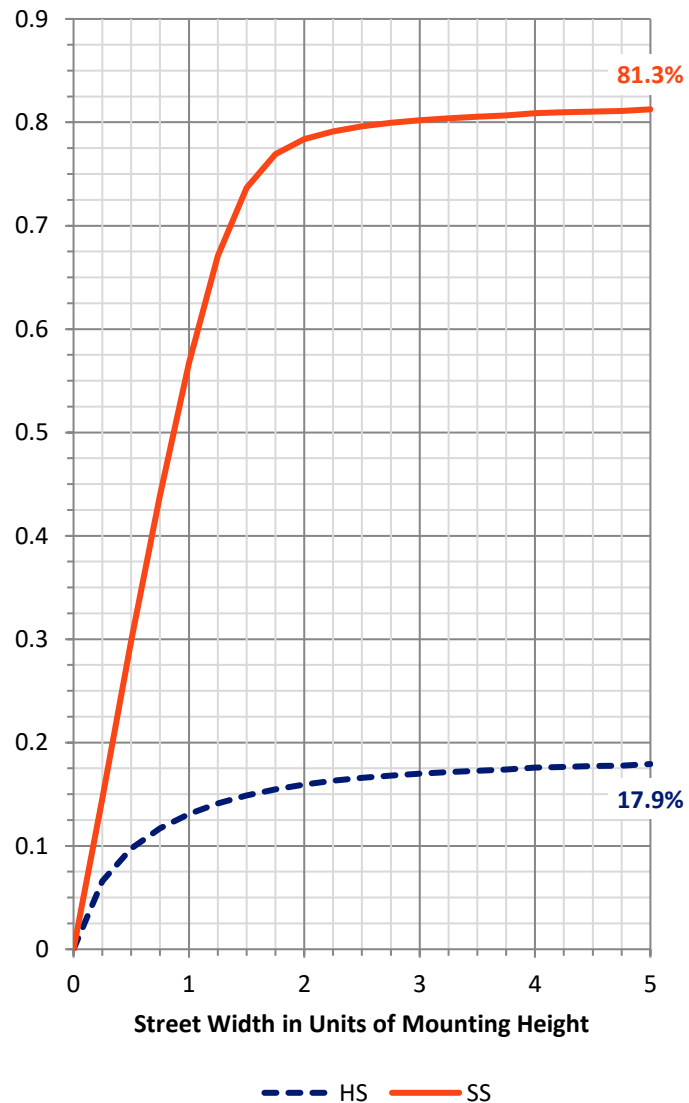
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4848.6	0.0	4848.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	21479.6	0.0	21479.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	26328.2	0.0	26328.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.4	1.3
10°-20°	972.0	3.7
20°-30°	1608.8	6.1
30°-40°	2631.7	10.0
40°-50°	4249.1	16.1
50°-60°	6134.4	23.3
60°-70°	6769.7	25.7
70°-80°	3120.4	11.9
80°-90°	504.7	1.9
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°	26328.2	100.0
0°-180°	26328.2	100.0

Coefficient of Utilization



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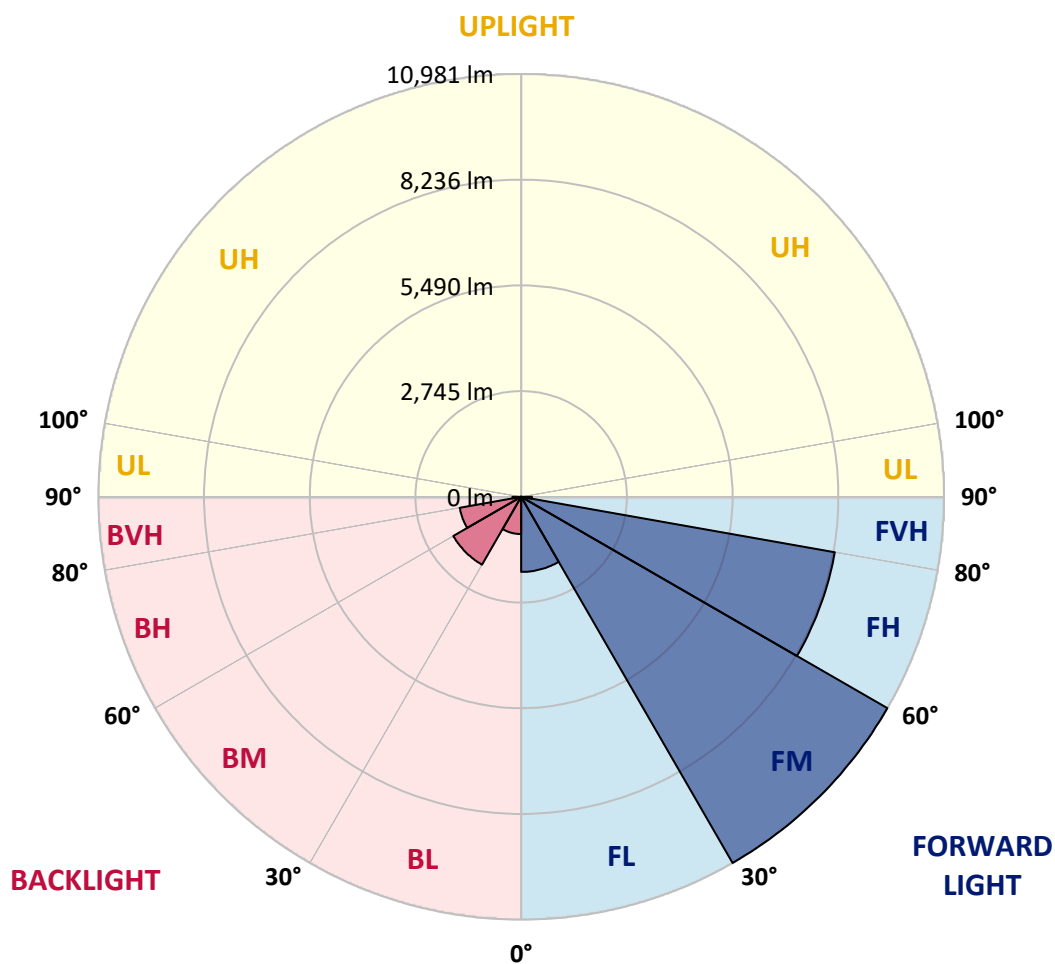
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1950.9	7.4			
FM	(30°-60°)	10980.8	41.7			
FH	(60°-80°)	8270.4	31.4			G4/12000
FVH	(80°-90°)	277.5	1.1			G3/500
BL	(0°-30°)	967.4	3.7	B2/1000		
BM	(30°-60°)	2034.3	7.7	B2/2500		
BH	(60°-80°)	1619.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	227.2	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3657.8	3657.8	3657.8	3657.8	3657.8	3657.8	3657.8	3657.8	3657.8	3657.8	3657.8
2.5°	4001.2	3977.9	3981.9	3975.3	3955.8	3922.2	3886.0	3819.8	3751.1	3714.9	3686.3
5°	4335.6	4329.2	4320.1	4299.4	4250.0	4180.2	4093.3	3976.6	3850.9	3784.7	3721.3
7.5°	4585.8	4581.9	4570.2	4557.3	4509.3	4425.1	4294.2	4128.3	3945.5	3854.7	3756.3
10°	4606.6	4613.0	4622.1	4657.0	4663.6	4618.2	4484.6	4283.8	4044.0	3927.4	3801.6
12.5°	4430.3	4444.5	4479.5	4569.0	4663.6	4719.4	4650.6	4447.1	4159.4	4018.1	3858.7
15°	4196.9	4204.8	4247.5	4370.6	4540.5	4712.8	4777.6	4627.2	4308.4	4134.7	3944.2
17.5°	4097.1	4101.0	4130.9	4212.5	4370.6	4616.9	4848.9	4823.0	4491.2	4279.9	4049.1
20°	4046.6	4055.7	4098.5	4178.8	4278.6	4493.8	4859.3	5034.2	4709.0	4461.4	4181.4
22.5°	4190.4	4186.6	4202.1	4242.3	4326.5	4456.1	4851.5	5252.0	4986.3	4694.7	4353.8
25°	4526.2	4540.5	4513.2	4467.8	4495.0	4585.8	4892.9	5487.9	5333.7	4994.1	4579.3
27.5°	5004.5	4990.2	4950.0	4843.8	4788.0	4826.8	5030.4	5742.0	5765.3	5388.1	4877.5
30°	5481.4	5469.7	5430.8	5301.3	5187.2	5154.9	5297.4	6033.7	6279.9	5861.2	5243.0
32.5°	5976.6	5963.6	5927.4	5797.8	5660.2	5585.2	5677.1	6370.6	6886.5	6426.3	5673.3
35°	6587.0	6562.4	6485.9	6305.8	6171.0	6112.7	6155.4	6794.5	7586.4	7095.2	6195.6
37.5°	7161.3	7198.9	7121.1	6872.2	6697.3	6676.5	6724.5	7311.6	8340.8	7843.0	6795.7
40°	7738.1	7744.6	7674.6	7471.0	7290.9	7257.2	7377.7	7939.0	9231.2	8737.4	7525.4
42.5°	8334.3	8347.3	8229.3	8041.4	7909.2	7915.7	8053.1	8673.9	10252.6	9791.2	8365.4
45°	9040.6	9060.1	8930.6	8684.3	8563.7	8806.1	8749.1	9498.2	11372.5	10988.9	9329.7
47.5°	9779.5	9809.3	9710.9	9480.1	9329.7	9662.9	9445.1	10412.0	12577.9	12273.3	10388.7
50°	10182.6	10225.3	10321.2	10304.5	10272.0	10216.3	10221.5	11391.9	13821.0	13611.0	11477.4
52.5°	9966.2	9964.9	10314.8	10739.9	11193.6	11227.3	11167.7	12425.0	14982.2	14918.8	12502.7
55°	8975.8	9043.3	9573.4	10396.4	11635.6	12409.4	12585.7	13608.4	16122.9	16196.8	13543.6
57.5°	7327.2	7382.8	8098.4	9245.5	11039.3	13111.8	14602.5	15328.3	17398.3	17743.0	14929.0
60°	4969.4	5036.9	5795.1	7173.0	9434.7	12720.5	16522.0	18397.6	18925.3	19709.4	16873.4
62.5°	2920.3	2981.1	3599.4	4524.9	6642.9	10902.0	17364.6	22764.3	21350.3	22676.2	19839.0
65°	2010.4	2051.8	2352.6	2816.6	3817.2	7342.8	16319.9	25779.2	25081.9	26352.1	23277.6
67.5°	1617.6	1612.4	1851.0	2167.1	2457.5	3786.1	12340.8	25438.4	28363.8	28893.9	25062.4
70°	1332.4	1327.3	1489.3	1751.1	1963.7	2132.2	6721.8	21466.9	27694.9	27910.2	23418.9
72.5°	1114.7	1119.9	1223.6	1417.9	1611.1	1605.9	2954.0	15101.5	21787.1	23275.1	18668.6
75°	941.0	943.6	1012.3	1149.7	1307.9	1293.5	1602.1	8181.4	12664.8	13700.3	10348.5
77.5°	801.0	803.6	847.7	924.2	1037.0	1031.7	1169.2	3534.6	5283.1	5218.3	3539.8
80°	714.2	714.2	734.9	749.2	811.4	788.1	867.1	1698.0	2233.3	2062.2	1412.8
82.5°	560.0	562.5	689.5	684.4	639.0	609.2	609.2	1000.6	1183.4	1093.9	827.0
85°	315.0	313.7	444.5	536.6	562.5	429.1	425.1	560.0	644.2	567.7	400.6
87.5°	134.8	137.3	206.1	238.5	318.8	267.0	263.1	289.0	327.9	283.8	185.3
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°	3657.8	3657.8	3657.8	3657.8	3657.8	3657.8	3657.8	3657.8	3657.8	3657.8	3657.8
2.5°	3659.1	3625.3	3551.5	3459.4	3376.4	3322.0	3272.8	3201.6	3205.4	3156.2	3119.9
5°	3656.5	3586.4	3415.3	3211.9	3016.1	2874.8	2768.6	2672.7	2649.3	2603.9	2576.8
7.5°	3659.1	3545.0	3257.2	2931.9	2689.5	2510.7	2419.9	2369.4	2357.7	2342.2	2343.5
10°	3668.2	3507.4	3083.6	2670.1	2416.0	2298.0	2276.1	2291.6	2309.7	2314.9	2316.2
12.5°	3688.8	3473.7	2892.9	2436.8	2245.0	2208.6	2246.3	2299.4	2334.4	2351.3	2349.9
15°	3735.6	3447.7	2710.2	2254.0	2150.3	2169.8	2239.7	2314.9	2365.5	2388.9	2390.1
17.5°	3786.1	3410.2	2522.4	2114.0	2080.3	2129.6	2216.5	2304.6	2366.8	2392.7	2397.9
20°	3852.2	3363.5	2325.2	2009.1	2014.2	2069.9	2151.7	2239.7	2308.4	2330.5	2340.9
22.5°	3939.1	3313.0	2153.0	1923.5	1939.1	1981.9	2045.4	2121.9	2181.5	2191.8	2200.9
25°	4055.7	3258.5	2015.5	1845.7	1852.2	1876.8	1919.5	1964.9	2006.4	1994.7	2003.9
27.5°	4212.5	3211.9	1913.1	1774.5	1762.8	1768.0	1790.0	1804.2	1826.3	1793.9	1797.8
30°	4396.6	3161.3	1834.0	1712.2	1679.9	1670.8	1675.9	1683.6	1700.5	1656.5	1650.1
32.5°	4610.4	3100.4	1760.1	1657.8	1612.4	1594.3	1596.9	1617.6	1682.4	1655.2	1641.0
35°	4859.3	3031.7	1682.4	1598.1	1567.1	1541.1	1538.6	1603.4	1796.4	1779.7	1766.6
37.5°	5150.9	2963.0	1604.7	1530.7	1533.4	1504.8	1495.8	1569.6	1818.5	1752.4	1743.3
40°	5521.6	2926.7	1538.6	1459.4	1491.8	1488.0	1469.9	1507.4	1673.3	1552.8	1537.3
42.5°	5980.5	2931.9	1489.3	1383.0	1442.7	1484.1	1455.6	1456.9	1516.5	1425.8	1411.5
45°	6547.0	2992.8	1454.2	1322.0	1386.9	1480.3	1450.4	1429.6	1434.8	1386.9	1379.1
47.5°	7208.0	3118.6	1429.6	1271.6	1333.7	1465.9	1449.1	1421.9	1410.2	1384.4	1377.9
50°	7942.8	3301.3	1411.5	1223.6	1285.8	1442.7	1450.4	1414.2	1401.1	1390.8	1386.9
52.5°	8664.8	3510.0	1384.4	1182.0	1248.2	1414.2	1454.2	1406.2	1392.1	1384.4	1380.4
55°	9469.7	3770.5	1342.8	1147.1	1217.0	1377.9	1454.2	1394.7	1379.1	1380.4	1379.1
57.5°	10557.1	4191.7	1293.5	1117.2	1179.5	1333.7	1429.6	1381.7	1362.3	1363.5	1364.8
60°	12256.4	4934.4	1234.0	1087.4	1132.8	1281.9	1396.0	1353.1	1333.7	1339.0	1340.2
62.5°	14755.5	6024.5	1156.2	1043.4	1083.7	1226.2	1349.4	1316.9	1297.5	1310.4	1310.4
65°	17353.0	6986.2	1060.3	987.7	1031.7	1165.2	1291.0	1271.6	1252.1	1281.9	1280.6
67.5°	18051.6	6771.2	964.3	926.7	979.9	1097.8	1221.0	1210.6	1200.2	1252.1	1249.5
70°	16036.1	5436.0	876.1	864.6	922.9	1025.3	1145.8	1145.8	1139.3	1178.3	1169.2
72.5°	12217.6	3854.7	791.9	798.4	858.0	946.1	1064.1	1073.3	1062.9	1082.3	1074.6
75°	6540.4	2206.1	707.7	725.8	777.7	865.9	973.4	982.5	976.0	974.7	978.6
77.5°	2173.6	1078.4	619.6	648.1	693.5	782.9	878.8	893.0	877.5	874.9	873.6
80°	968.2	677.9	522.4	560.0	600.2	688.3	779.0	790.7	773.8	797.1	767.3
82.5°	622.1	445.9	418.7	460.1	499.0	593.6	679.1	681.8	666.3	773.8	659.7
85°	302.0	276.1	315.0	352.6	386.2	466.6	562.5	563.8	525.0	478.2	461.4
87.5°	150.3	160.7	210.0	243.6	260.5	320.1	409.6	401.8	384.9	349.9	322.8
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)