

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: P194296

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194296
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-08-LED-E1-AFL-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32246 lumens
Efficiency: N/A
Efficacy: 125.5 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): 257
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



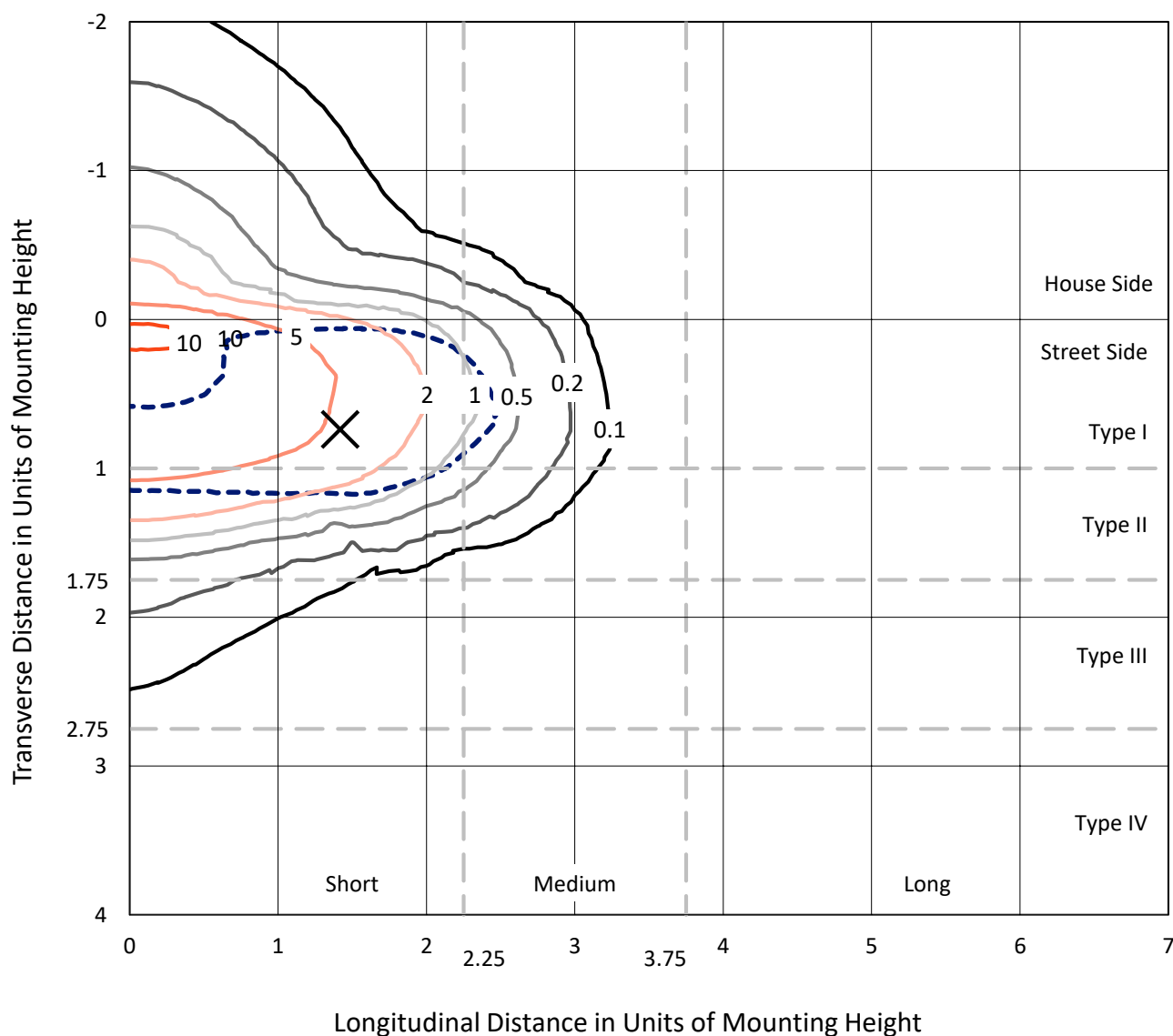
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

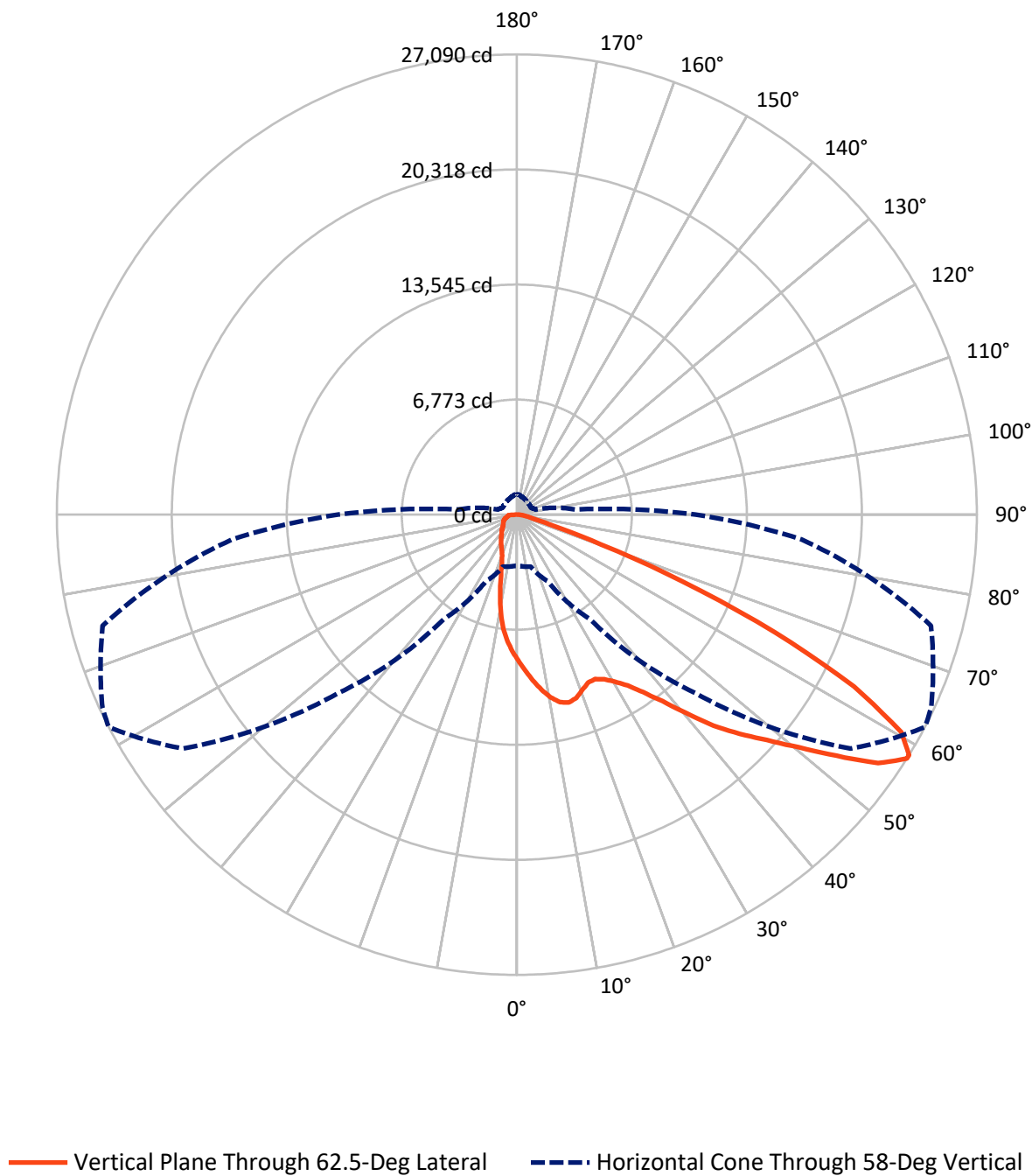


Based on 30 foot mounting height. Maximum calculated value = 11.6 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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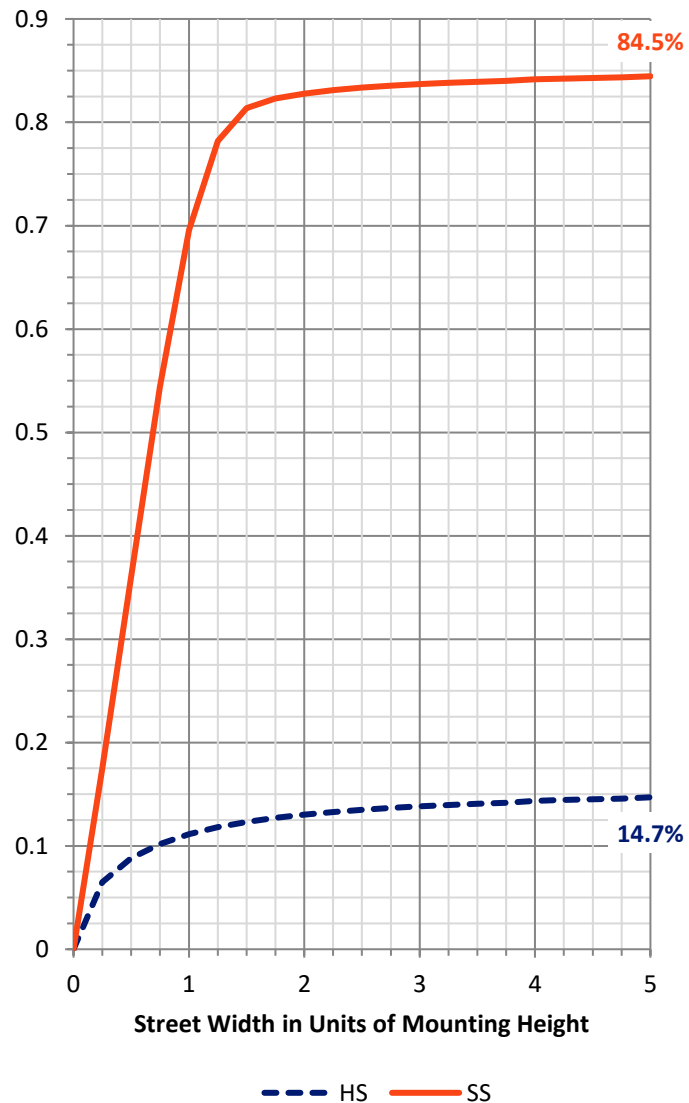
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4917.6	0.0	4917.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	27328.4	0.0	27328.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	32246.0	0.0	32246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.1	2.4
10°-20°	1958.2	6.1
20°-30°	3165.4	9.8
30°-40°	5025.1	15.6
40°-50°	7352.8	22.8
50°-60°	7690.4	23.8
60°-70°	4543.5	14.1
70°-80°	1279.9	4.0
80°-90°	464.7	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°	32246.0	100.0
0°-180°	32246.0	100.0

Coefficient of Utilization



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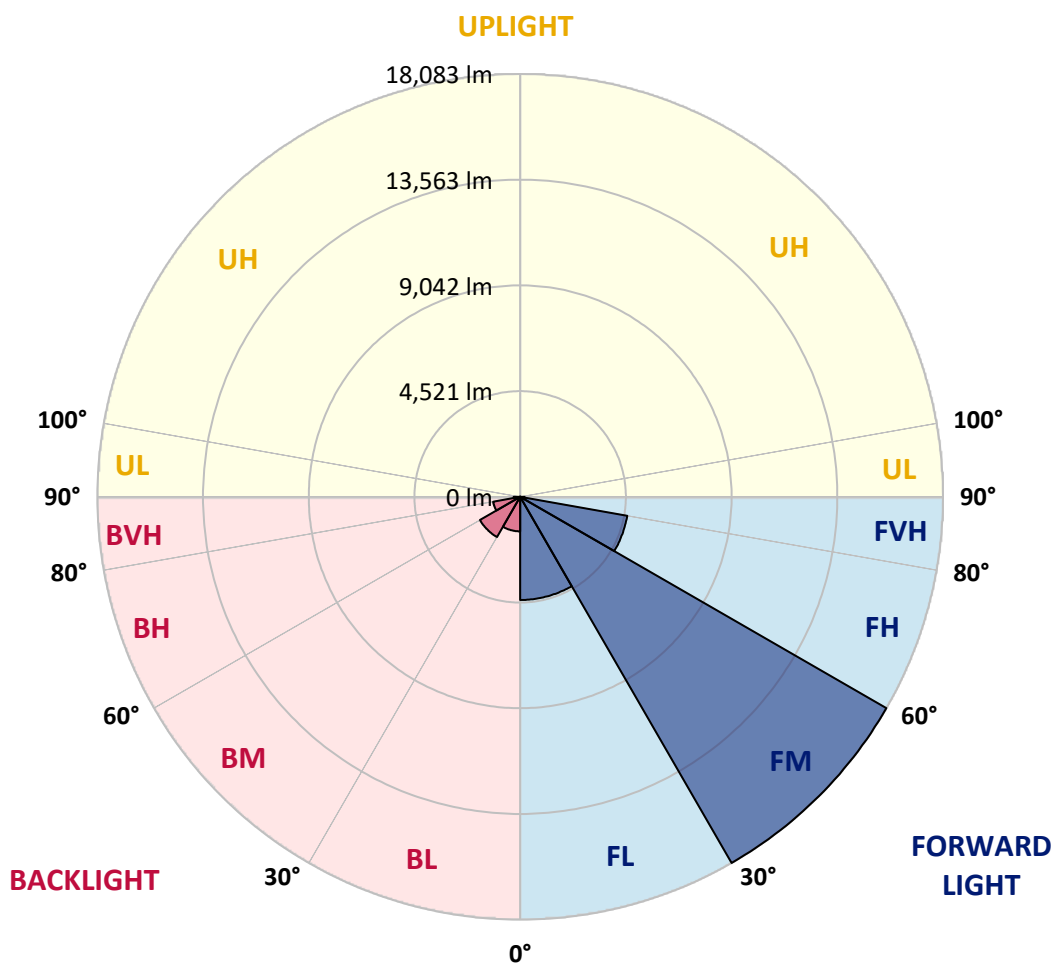
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4411.7	13.7			
FM	(30°-60°)	18083.4	56.1			
FH	(60°-80°)	4650.0	14.4			G2/5000
FVH	(80°-90°)	183.3	0.6			G2/225
BL	(0°-30°)	1478.0	4.6	B3/2500		
BM	(30°-60°)	1984.9	6.2	B2/2500		
BH	(60°-80°)	1173.4	3.6	B3/2500		G3/2500
BVH	(80°-90°)	281.4	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°	8565.5	8565.5	8565.5	8565.5	8565.5	8565.5	8565.5	8565.5	8565.5	8565.5	8565.5
2.5°	9787.8	9708.9	9658.8	9614.7	9557.0	9434.0	9268.5	9163.8	9110.6	8929.9	8715.8
5°	10747.5	10677.6	10626.0	10566.8	10463.5	10270.7	10003.5	9790.9	9686.1	9324.7	8896.5
7.5°	10522.8	10551.6	10641.2	10797.6	10931.2	10905.4	10667.0	10396.7	10258.5	9755.9	9106.1
10°	9168.3	9218.4	9373.3	9739.2	10331.4	10938.8	11124.1	10937.3	10797.6	10182.6	9321.7
12.5°	8896.5	8895.0	8907.1	9004.3	9356.6	10211.5	11139.2	11327.5	11244.0	10589.6	9541.8
15°	9007.4	9010.4	9001.3	9042.3	9151.6	9490.2	10674.6	11477.9	11537.1	10999.5	9769.6
17.5°	9298.9	9291.3	9256.4	9256.4	9295.9	9428.0	10128.0	11338.2	11611.5	11362.5	9970.0
20°	9787.8	9752.9	9660.3	9575.3	9532.7	9604.1	9903.2	11016.2	11482.4	11679.8	10135.6
22.5°	10380.0	10352.7	10202.4	10020.2	9872.9	9871.3	10018.6	10735.3	11259.2	11978.9	10275.3
25°	11145.3	11101.3	10878.1	10586.5	10328.4	10229.7	10270.7	10721.7	11137.7	12303.9	10399.8
27.5°	12044.2	11963.8	11699.5	11278.9	10899.3	10700.4	10641.2	10969.2	11248.6	12706.3	10572.9
30°	13134.5	13041.8	12703.2	12155.1	11619.1	11292.6	11166.6	11408.0	11616.0	13196.7	10850.7
32.5°	14375.0	14241.4	13849.6	13245.3	12540.8	12042.7	11837.7	11988.0	12153.6	13787.4	11198.5
35°	16089.3	15929.9	15363.5	14529.9	13734.2	13049.4	12721.5	12830.8	12991.7	14668.1	11701.1
37.5°	17258.5	17187.2	16810.6	16027.1	15161.6	14373.5	13866.4	13930.1	14021.2	15769.0	12344.9
40°	17247.9	17276.8	17284.3	17291.9	16702.8	15948.1	15403.0	15336.2	15318.0	16977.6	13076.8
42.5°	16383.9	16502.4	16885.0	17660.9	18019.3	17673.1	17173.5	16980.7	16885.0	18401.9	13852.7
45°	15061.4	15125.1	15841.8	17357.2	18693.5	19381.3	19003.2	18395.8	18222.7	19710.8	14496.5
47.5°	14379.6	14449.4	14900.4	16552.5	18685.9	20761.6	20980.2	19823.2	19513.4	20849.6	15052.2
50°	12756.4	12902.1	13470.0	15152.5	18004.1	21396.3	23046.8	21523.8	20883.0	21958.1	15609.5
52.5°	9775.7	10000.4	10636.6	12850.5	16274.6	21082.0	24700.4	23585.9	22680.9	23106.0	16087.8
55°	6166.4	6333.4	6867.9	9075.7	13019.1	19446.6	25327.5	25816.4	25011.7	24193.2	16502.4
57.5°	3352.7	3427.1	3627.5	5010.8	8468.3	15831.2	24413.4	27085.8	26751.8	25116.4	16815.2
58°	3000.4	3050.5	3175.0	4342.7	7510.2	14842.7	24008.0	27090.4	26923.4	25251.6	16839.4
60°	2226.0	2200.2	2089.4	2478.1	4180.3	10254.0	21557.2	26006.2	26496.7	25417.1	16721.0
62.5°	1955.7	1893.5	1667.2	1641.4	2033.2	4723.9	16494.8	22277.0	23435.5	24472.6	16001.3
65°	1837.3	1770.5	1479.0	1384.8	1466.8	1998.3	9716.5	16707.3	18160.5	21608.9	14160.9
67.5°	1749.2	1662.7	1359.0	1229.9	1236.0	1321.0	3894.8	10522.8	12158.1	16406.7	11014.7
70°	1664.2	1570.1	1257.3	1108.5	1073.5	1044.7	1548.8	5267.5	6751.0	10363.3	7022.8
72.5°	1573.1	1480.5	1167.7	1012.8	944.5	848.8	1011.3	2154.7	3009.5	4903.0	3185.7
75°	1441.0	1357.5	1078.1	927.8	830.6	703.0	763.8	1125.2	1349.9	1952.7	1535.1
77.5°	1278.5	1210.2	977.9	857.9	736.4	570.9	587.6	780.5	865.5	1117.6	912.6
80°	918.7	942.9	870.1	771.4	656.0	463.1	451.0	569.4	615.0	718.2	593.7
82.5°	645.3	659.0	719.7	630.2	542.1	364.4	332.5	400.9	428.2	472.2	320.4
85°	444.9	429.7	493.5	438.8	391.8	242.9	227.8	271.8	288.5	293.1	165.5
87.5°	267.2	267.2	285.5	235.4	211.1	126.0	123.0	154.9	165.5	157.9	91.1
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°	8565.5	8565.5	8565.5	8565.5	8565.5	8565.5	8565.5	8565.5	8565.5	8565.5	8565.5
2.5°	8588.3	8480.5	8251.2	8067.4	7835.1	7593.7	7458.6	7314.3	7215.6	7144.2	7258.1
5°	8653.6	8433.4	7959.6	7510.2	7013.7	6497.4	6105.6	5741.2	5487.6	5329.7	5478.5
7.5°	8756.8	8418.2	7663.5	6895.2	6003.9	5144.5	4376.1	3894.8	3613.9	3475.7	3562.2
10°	8875.3	8393.9	7315.8	6061.6	4786.1	3703.5	3129.5	2935.1	2871.4	2845.5	2857.7
12.5°	8974.0	8342.3	6889.1	5053.4	3594.1	2924.5	2759.0	2754.4	2768.1	2771.1	2775.7
15°	9043.8	8266.4	6256.0	4002.6	2874.4	2664.9	2655.7	2683.1	2708.9	2719.5	2725.6
17.5°	9090.9	8110.0	5540.8	3164.4	2575.3	2538.8	2560.1	2595.0	2622.3	2629.9	2636.0
20°	9086.3	7880.7	4688.9	2639.0	2412.8	2412.8	2449.2	2476.6	2478.1	2469.0	2473.5
22.5°	9039.2	7566.4	3862.9	2359.6	2268.5	2294.4	2330.8	2305.0	2198.7	2128.8	2133.4
25°	8960.3	7191.3	3155.3	2182.0	2134.9	2180.5	2169.8	1975.5	1823.6	1755.3	1755.3
27.5°	8890.4	6747.9	2611.7	2027.1	2001.3	2057.5	1869.2	1693.1	1629.3	1597.4	1586.8
30°	8840.3	6269.6	2248.8	1878.3	1875.3	1834.3	1621.7	1573.1	1562.5	1536.7	1527.5
32.5°	8852.5	5785.2	2016.5	1747.7	1758.3	1570.1	1503.3	1513.9	1504.8	1477.4	1465.3
35°	8952.7	5325.2	1864.6	1629.3	1597.4	1418.2	1433.4	1453.1	1450.1	1412.1	1400.0
37.5°	9131.9	4889.4	1764.4	1530.6	1393.9	1342.3	1366.6	1397.0	1389.4	1363.6	1354.4
40°	9320.2	4479.4	1682.4	1453.1	1274.0	1290.7	1311.9	1328.6	1336.2	1343.8	1337.7
42.5°	9503.9	4051.2	1582.2	1374.2	1223.9	1242.1	1251.2	1267.9	1308.9	1337.7	1336.2
45°	9613.2	3648.8	1479.0	1261.8	1184.4	1195.0	1188.9	1222.3	1272.4	1319.5	1321.0
47.5°	9734.7	3336.0	1397.0	1158.6	1146.4	1154.0	1135.8	1169.2	1214.7	1272.4	1278.5
50°	9882.0	3149.2	1331.7	1076.6	1094.8	1094.8	1090.2	1120.6	1184.4	1251.2	1263.3
52.5°	10049.0	3112.8	1277.0	1017.4	1043.2	1041.6	1046.2	1091.8	1161.6	1226.9	1237.5
55°	10252.5	3211.5	1217.8	973.3	993.1	999.1	1014.3	1065.9	1125.2	1199.6	1204.1
57.5°	10489.4	3411.9	1170.7	938.4	947.5	967.2	991.5	1038.6	1102.4	1184.4	1188.9
58°	10528.8	3454.4	1163.1	935.4	938.4	961.2	988.5	1034.1	1097.8	1187.4	1192.0
60°	10530.3	3595.7	1146.4	921.7	903.5	941.4	971.8	1017.4	1090.2	1198.0	1208.7
62.5°	10156.8	3594.1	1134.3	902.0	867.0	914.1	949.0	1002.2	1082.6	1223.9	1245.1
65°	8943.6	3266.2	1076.6	871.6	838.2	889.8	929.3	991.5	1103.9	1336.2	1349.9
67.5°	6995.4	2677.0	968.8	829.1	800.2	865.5	917.1	990.0	1126.7	1362.0	1371.1
70°	4625.2	2002.8	850.3	780.5	760.7	836.7	923.2	1041.6	1100.9	1307.4	1283.1
72.5°	2400.6	1406.1	754.7	719.7	715.2	810.8	1011.3	1035.6	1075.1	1229.9	1199.6
75°	1260.3	976.4	671.1	652.9	660.5	804.8	1193.5	1008.2	1041.6	1176.8	1234.5
77.5°	771.4	788.1	599.8	592.2	607.4	786.5	1192.0	973.3	993.1	1082.6	1146.4
80°	516.3	639.3	545.1	546.6	557.3	719.7	1070.5	918.7	933.8	1023.4	1088.7
82.5°	326.5	378.1	495.0	520.8	507.2	593.7	909.5	836.7	857.9	1170.7	1237.5
85°	165.5	236.9	429.7	501.1	457.0	416.1	738.0	733.4	744.0	844.2	882.2
87.5°	75.9	130.6	335.6	437.3	344.7	259.7	536.0	543.6	586.1	599.8	599.8
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)