

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: P300393

Luminaire Tested: **GLNA-AF-07-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300393
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: GLNA-AF-07-LED-E1-AFL-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28380.2 lumens
Efficiency: N/A
Efficacy: 96.2 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): 295
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



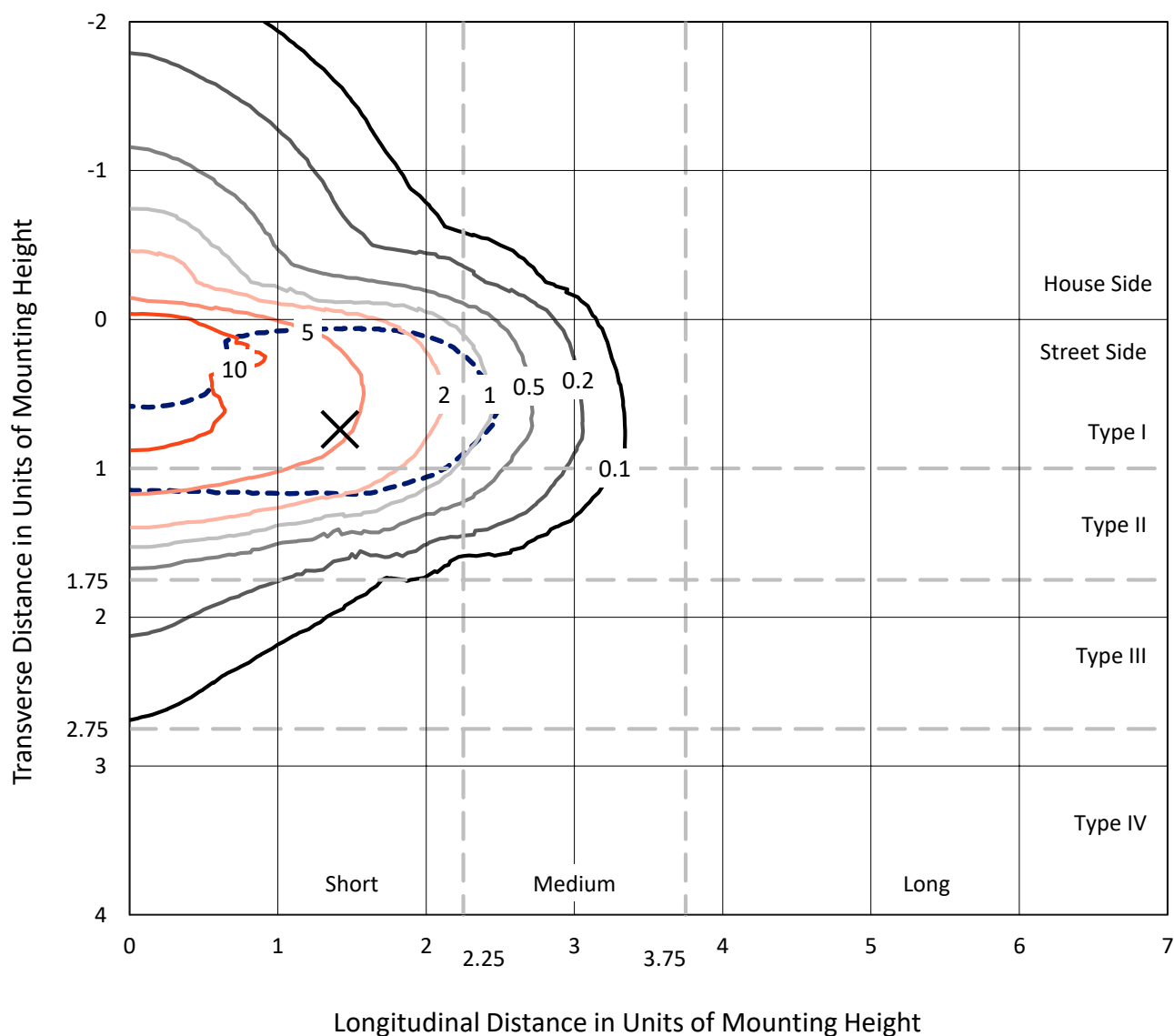
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

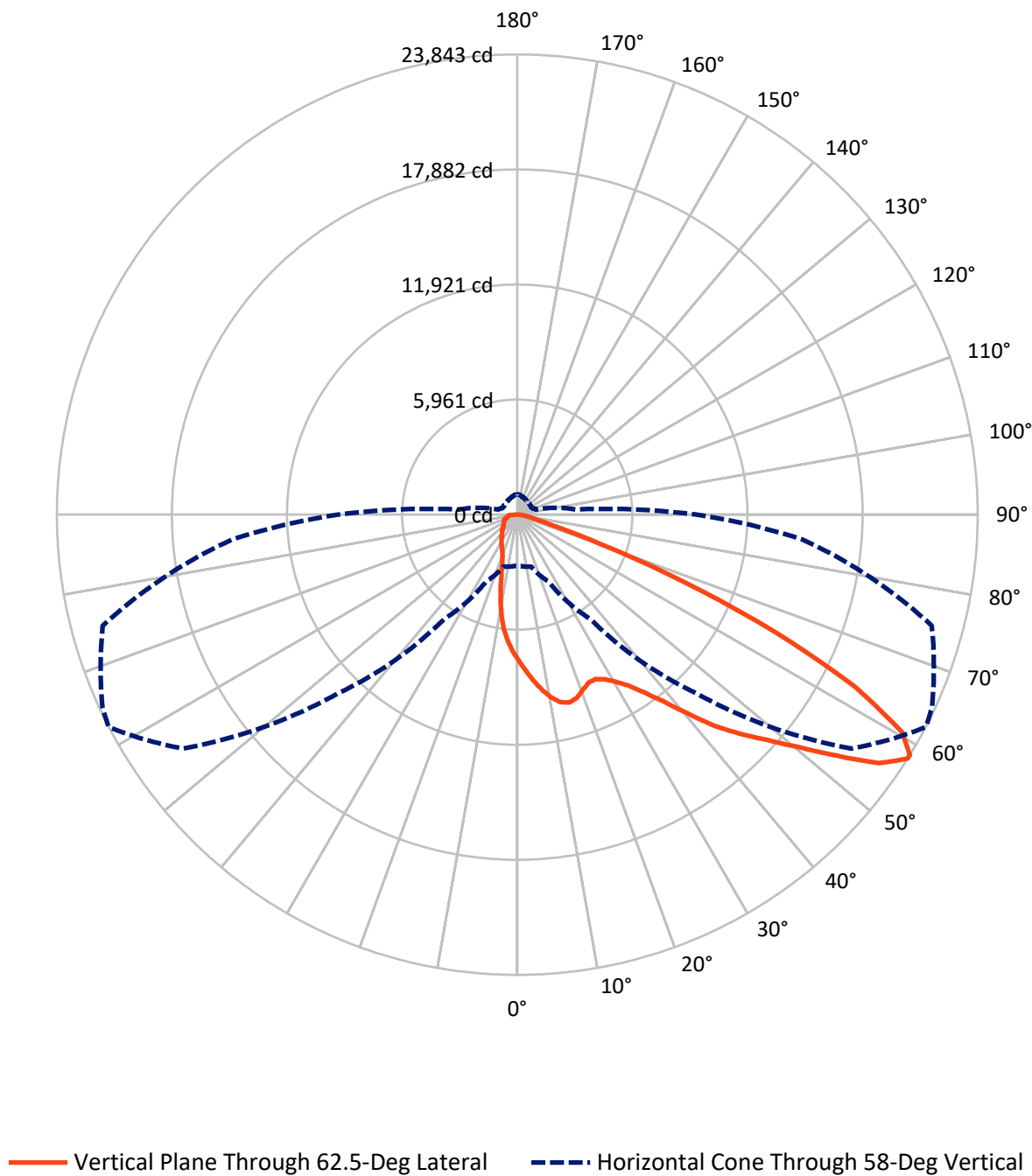


Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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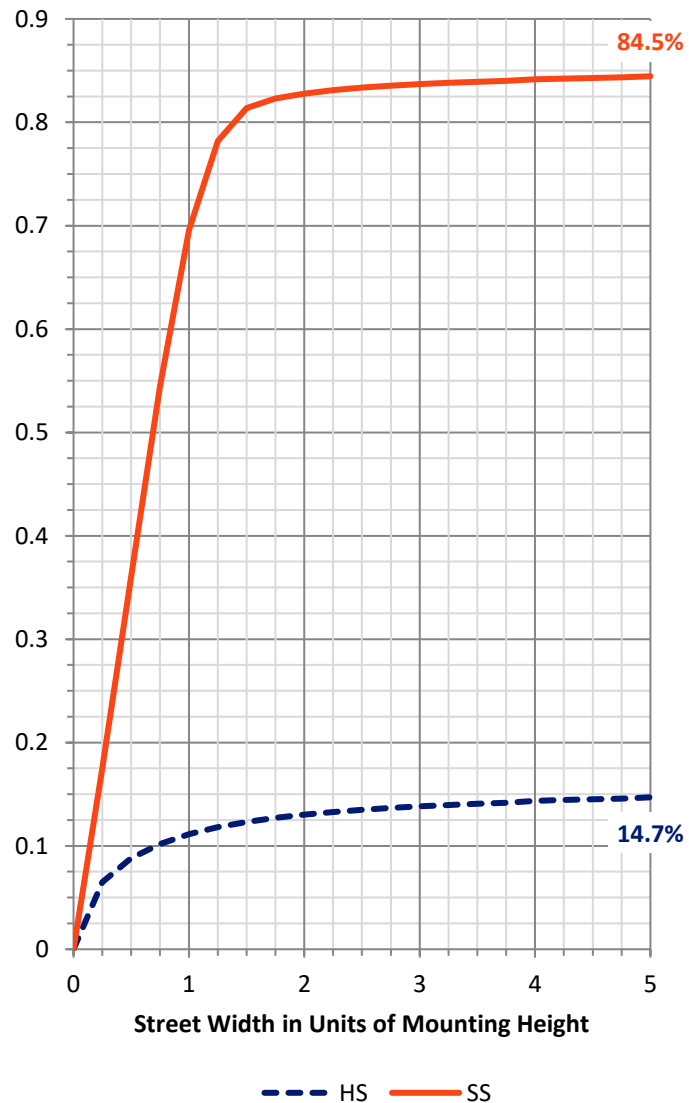
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4328.1	0.0	4328.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	24052.1	0.0	24052.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	28380.2	0.0	28380.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.2	2.4
10°-20°	1723.4	6.1
20°-30°	2785.9	9.8
30°-40°	4422.7	15.6
40°-50°	6471.3	22.8
50°-60°	6768.4	23.8
60°-70°	3998.8	14.1
70°-80°	1126.5	4.0
80°-90°	409.0	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°	28380.2	100.0
0°-180°	28380.2	100.0

Coefficient of Utilization



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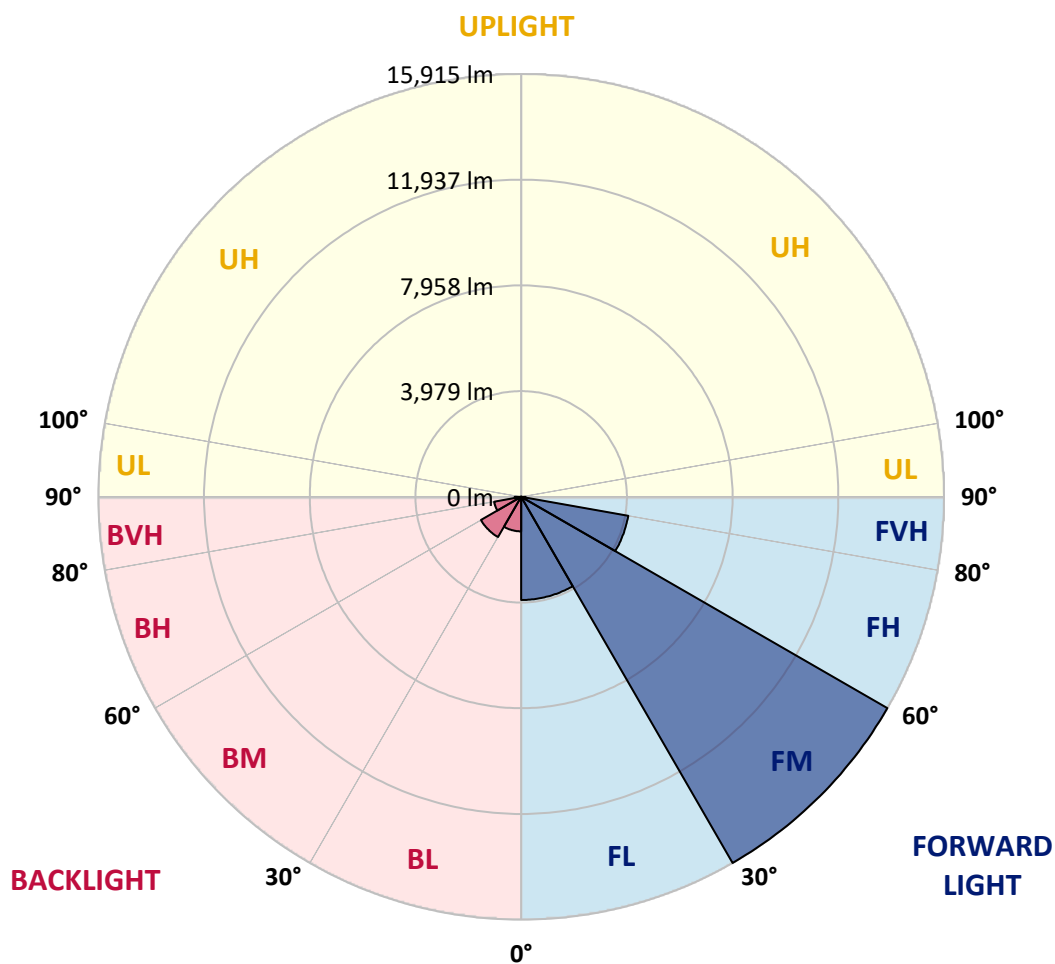
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3882.8	13.7			
FM	(30°-60°)	15915.4	56.1			
FH	(60°-80°)	4092.5	14.4			G2/5000
FVH	(80°-90°)	161.3	0.6			G2/225
BL	(0°-30°)	1300.8	4.6	B3/2500		
BM	(30°-60°)	1746.9	6.2	B2/2500		
BH	(60°-80°)	1032.7	3.6	B3/2500		G3/2500
BVH	(80°-90°)	247.6	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°	7538.6	7538.6	7538.6	7538.6	7538.6	7538.6	7538.6	7538.6	7538.6	7538.6	7538.6
2.5°	8614.4	8544.9	8500.8	8462.1	8411.3	8303.0	8157.4	8065.1	8018.4	7859.3	7670.9
5°	9459.0	9397.5	9352.1	9300.0	9209.1	9039.4	8804.2	8617.1	8524.9	8206.8	7829.9
7.5°	9261.2	9286.6	9365.5	9503.1	9620.7	9598.0	9388.2	9150.3	9028.7	8586.3	8014.4
10°	8069.2	8113.3	8249.6	8571.6	9092.8	9627.4	9790.4	9626.1	9503.1	8961.9	8204.1
12.5°	7829.9	7828.6	7839.3	7924.8	8234.9	8987.3	9803.8	9969.5	9896.0	9320.0	8397.9
15°	7927.5	7930.2	7922.2	7958.2	8054.5	8352.5	9394.9	10101.8	10153.9	9680.9	8598.4
17.5°	8184.1	8177.4	8146.7	8146.7	8181.4	8297.7	8913.8	9978.9	10219.4	10000.3	8774.8
20°	8614.4	8583.7	8502.2	8427.3	8389.9	8452.7	8716.0	9695.6	10105.8	10279.6	8920.4
22.5°	9135.6	9111.5	8979.2	8818.9	8689.2	8687.9	8817.5	9448.3	9909.4	10542.8	9043.4
25°	9809.1	9770.4	9573.9	9317.4	9090.2	9003.3	9039.4	9436.3	9802.5	10828.8	9153.0
27.5°	10600.3	10529.5	10296.9	9926.7	9592.6	9417.6	9365.5	9654.1	9900.0	11183.0	9305.3
30°	11559.8	11478.3	11180.3	10697.8	10226.1	9938.8	9827.9	10040.3	10223.4	11614.6	9549.9
32.5°	12651.7	12534.1	12189.3	11657.4	11037.3	10599.0	10418.5	10550.8	10696.5	12134.5	9855.9
35°	14160.5	14020.1	13521.7	12788.0	12087.7	11485.0	11196.3	11292.5	11434.2	12909.6	10298.3
37.5°	15189.5	15126.7	14795.2	14105.7	13343.9	12650.3	12204.0	12260.1	12340.3	13878.5	10864.9
40°	15180.1	15205.5	15212.2	15218.9	14700.4	14036.2	13556.4	13497.6	13481.6	14942.2	11509.0
42.5°	14419.7	14524.0	14860.7	15543.6	15859.0	15554.3	15114.6	14944.9	14860.7	16195.8	12191.9
45°	13255.7	13311.8	13942.6	15276.3	16452.4	17057.8	16725.0	16190.4	16038.1	17347.8	12758.6
47.5°	12655.7	12717.1	13114.1	14568.1	16445.7	18272.5	18465.0	17446.6	17174.0	18350.1	13247.7
50°	11227.1	11355.4	11855.2	13335.9	15845.6	18831.2	20283.8	18943.4	18379.5	19325.6	13738.2
52.5°	8603.7	8801.5	9361.5	11309.9	14323.5	18554.5	21739.2	20758.2	19961.7	20335.9	14159.1
55°	5427.1	5574.1	6044.5	7987.6	11458.3	17115.2	22291.1	22721.4	22013.1	21292.8	14524.0
57.5°	2950.8	3016.2	3192.6	4410.1	7453.1	13933.3	21486.6	23838.6	23544.6	22105.3	14799.2
58°	2640.7	2684.8	2794.4	3822.1	6609.8	13063.3	21129.8	23842.6	23695.6	22224.3	14820.6
60°	1959.2	1936.4	1838.9	2181.0	3679.1	9024.7	18972.8	22888.5	23320.1	22369.9	14716.4
62.5°	1721.3	1666.5	1467.4	1444.6	1789.4	4157.5	14517.3	19606.3	20625.9	21538.7	14082.9
65°	1617.0	1558.2	1301.6	1218.8	1291.0	1758.7	8551.6	14704.4	15983.3	19018.3	12463.2
67.5°	1539.5	1463.4	1196.1	1082.5	1087.8	1162.7	3427.9	9261.2	10700.5	14439.8	9694.2
70°	1464.7	1381.8	1106.5	975.6	944.8	919.4	1363.1	4636.0	5941.6	9120.9	6180.8
72.5°	1384.5	1303.0	1027.7	891.4	831.2	747.0	890.0	1896.3	2648.7	4315.2	2803.8
75°	1268.2	1194.7	948.8	816.5	731.0	618.8	672.2	990.3	1188.1	1718.6	1351.1
77.5°	1125.2	1065.1	860.6	755.1	648.2	502.5	517.2	686.9	761.7	983.6	803.2
80°	808.5	829.9	765.8	678.9	577.3	407.6	396.9	501.1	541.2	632.1	522.5
82.5°	568.0	580.0	633.5	554.6	477.1	320.7	292.7	352.8	376.9	415.6	282.0
85°	391.6	378.2	434.3	386.2	344.8	213.8	200.5	239.2	253.9	257.9	145.7
87.5°	235.2	235.2	251.2	207.1	185.8	110.9	108.2	136.3	145.7	139.0	80.2
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°	7538.6	7538.6	7538.6	7538.6	7538.6	7538.6	7538.6	7538.6	7538.6	7538.6	7538.6
2.5°	7558.7	7463.8	7262.0	7100.3	6895.8	6683.3	6564.4	6437.4	6350.6	6287.7	6388.0
5°	7616.1	7422.3	7005.4	6609.8	6172.8	5718.4	5373.6	5052.9	4829.7	4690.7	4821.7
7.5°	7707.0	7409.0	6744.8	6068.6	5284.1	4527.7	3851.5	3427.9	3180.6	3059.0	3135.2
10°	7811.2	7387.6	6438.8	5334.9	4212.3	3259.5	2754.3	2583.3	2527.1	2504.4	2515.1
12.5°	7898.1	7342.2	6063.2	4447.5	3163.2	2573.9	2428.2	2424.2	2436.2	2438.9	2442.9
15°	7959.6	7275.3	5506.0	3522.7	2529.8	2345.4	2337.4	2361.4	2384.1	2393.5	2398.8
17.5°	8001.0	7137.7	4876.5	2785.0	2266.5	2234.5	2253.2	2283.9	2308.0	2314.6	2320.0
20°	7997.0	6935.9	4126.8	2322.7	2123.5	2123.5	2155.6	2179.7	2181.0	2173.0	2177.0
22.5°	7955.6	6659.3	3399.8	2076.8	1996.6	2019.3	2051.4	2028.6	1935.1	1873.6	1877.6
25°	7886.1	6329.2	2777.0	1920.4	1879.0	1919.1	1909.7	1738.7	1605.0	1544.9	1544.9
27.5°	7824.6	5938.9	2298.6	1784.1	1761.4	1810.8	1645.1	1490.1	1434.0	1405.9	1396.5
30°	7780.5	5518.0	1979.2	1653.1	1650.4	1614.4	1427.3	1384.5	1375.2	1352.4	1344.4
32.5°	7791.2	5091.7	1774.7	1538.2	1547.5	1381.8	1323.0	1332.4	1324.4	1300.3	1289.6
35°	7879.4	4686.7	1641.1	1434.0	1405.9	1248.2	1261.6	1278.9	1276.3	1242.8	1232.2
37.5°	8037.1	4303.2	1552.9	1347.1	1226.8	1181.4	1202.8	1229.5	1222.8	1200.1	1192.1
40°	8202.8	3942.4	1480.7	1278.9	1121.2	1135.9	1154.6	1169.3	1176.0	1182.7	1177.4
42.5°	8364.5	3565.5	1392.5	1209.4	1077.1	1093.2	1101.2	1115.9	1152.0	1177.4	1176.0
45°	8460.7	3211.4	1301.6	1110.5	1042.4	1051.7	1046.4	1075.8	1119.9	1161.3	1162.7
47.5°	8567.6	2936.1	1229.5	1019.7	1009.0	1015.7	999.6	1029.0	1069.1	1119.9	1125.2
50°	8697.3	2771.7	1172.0	947.5	963.5	963.5	959.5	986.3	1042.4	1101.2	1111.9
52.5°	8844.3	2739.6	1123.9	895.4	918.1	916.8	920.8	960.9	1022.3	1079.8	1089.2
55°	9023.3	2826.5	1071.8	856.6	874.0	879.3	892.7	938.1	990.3	1055.8	1059.8
57.5°	9231.8	3002.9	1030.4	825.9	833.9	851.3	872.7	914.1	970.2	1042.4	1046.4
58°	9266.6	3040.3	1023.7	823.2	825.9	845.9	870.0	910.1	966.2	1045.1	1049.1
60°	9267.9	3164.6	1009.0	811.2	795.2	828.6	855.3	895.4	959.5	1054.4	1063.8
62.5°	8939.2	3163.2	998.3	793.8	763.1	804.5	835.2	882.0	952.9	1077.1	1095.8
65°	7871.4	2874.6	947.5	767.1	737.7	783.1	817.9	872.7	971.6	1176.0	1188.1
67.5°	6156.8	2356.1	852.6	729.7	704.3	761.7	807.2	871.3	991.6	1198.7	1206.8
70°	4070.7	1762.7	748.4	686.9	669.5	736.4	812.5	916.8	968.9	1150.6	1129.3
72.5°	2112.8	1237.5	664.2	633.5	629.4	713.6	890.0	911.4	946.2	1082.5	1055.8
75°	1109.2	859.3	590.7	574.7	581.3	708.3	1050.4	887.4	916.8	1035.7	1086.5
77.5°	678.9	693.6	527.9	521.2	534.6	692.3	1049.1	856.6	874.0	952.9	1009.0
80°	454.4	562.6	479.8	481.1	490.5	633.5	942.2	808.5	821.9	900.7	958.2
82.5°	287.3	332.8	435.7	458.4	446.4	522.5	800.5	736.4	755.1	1030.4	1089.2
85°	145.7	208.5	378.2	441.0	402.3	366.2	649.5	645.5	654.8	743.0	776.4
87.5°	66.8	114.9	295.3	384.9	303.4	228.5	471.7	478.4	515.8	527.9	527.9
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)