

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: P299859

Luminaire Tested: **GLNA-AF-08-LED-E1-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-SL3-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38798.8 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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



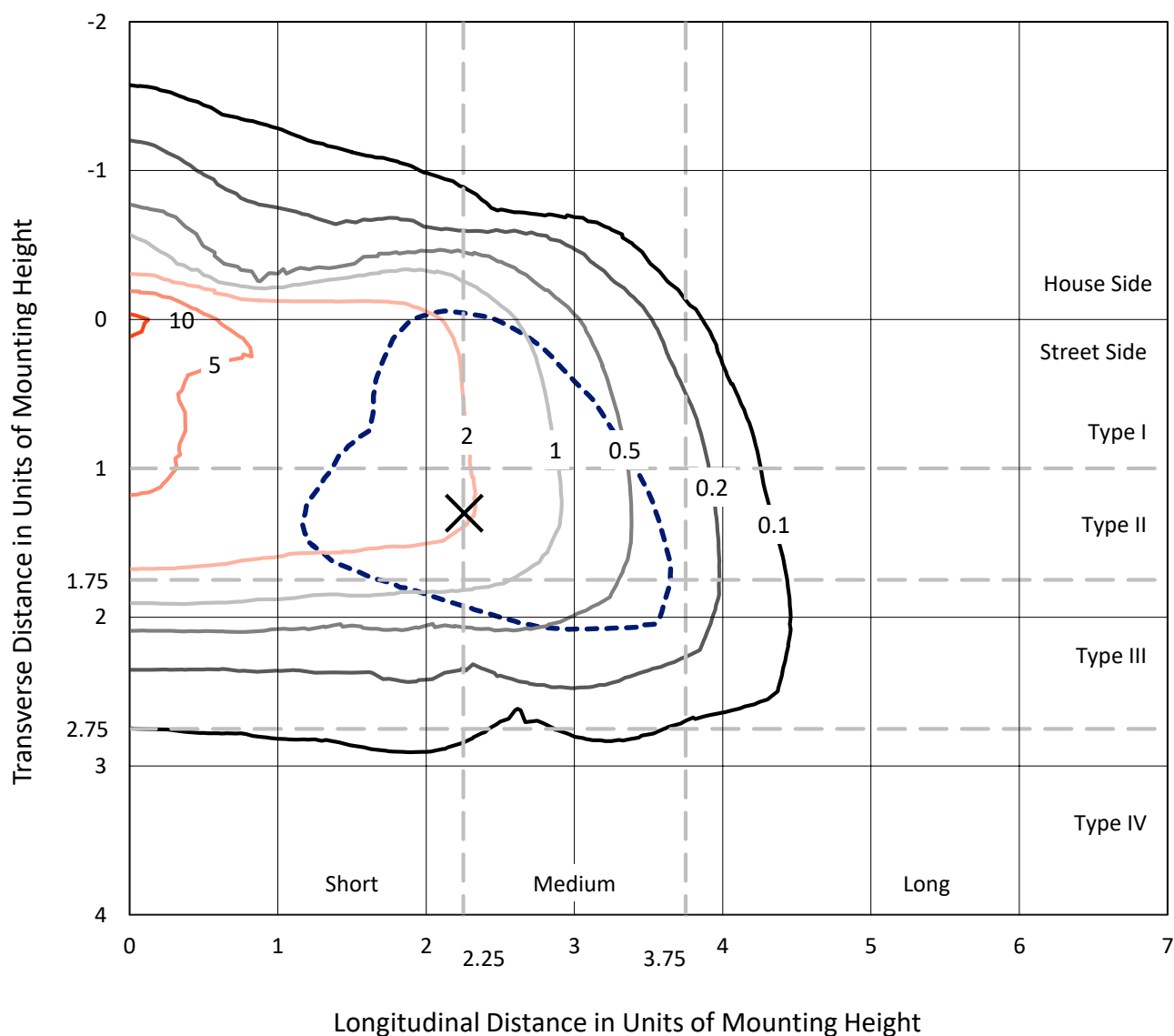
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

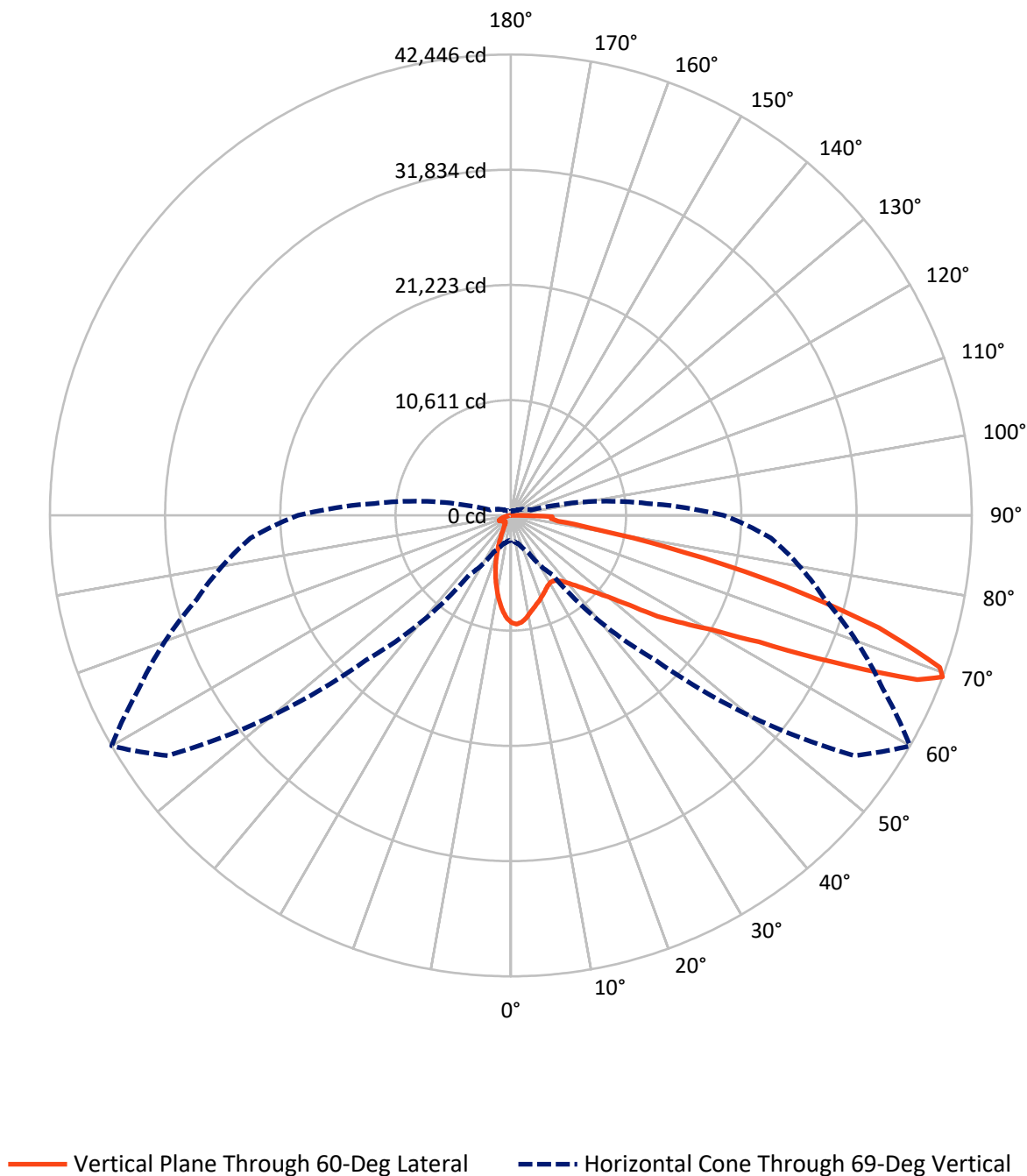


Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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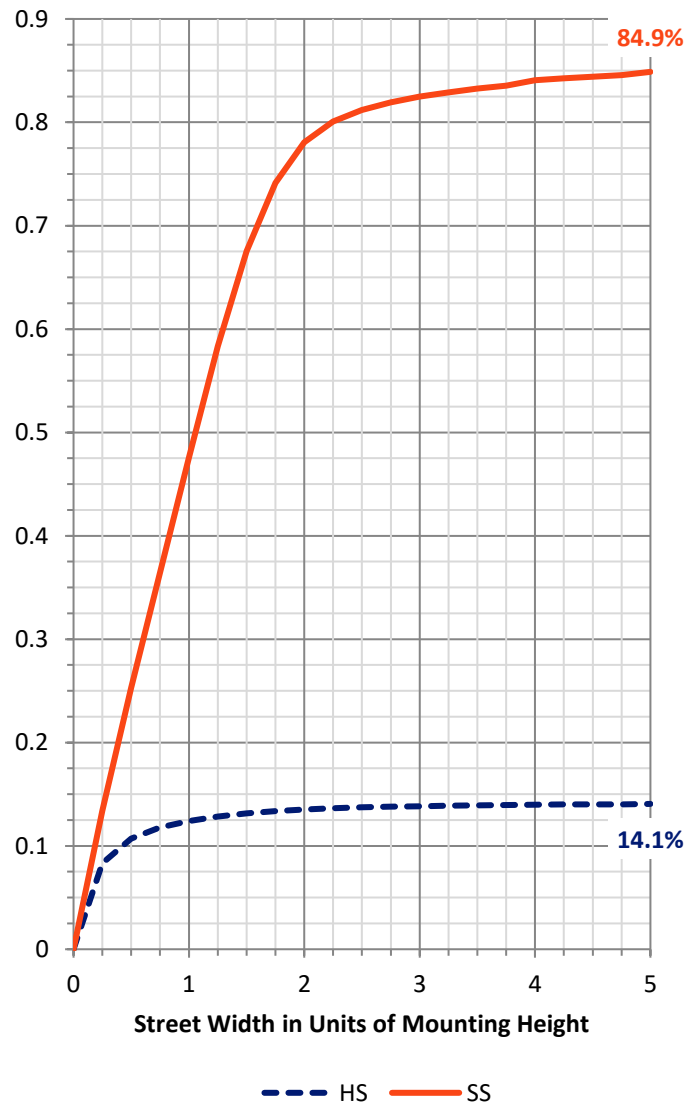
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5519.8	0.0	5519.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	33278.9	0.0	33278.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	38798.8	0.0	38798.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.9	2.2
10°-20°	1781.0	4.6
20°-30°	2269.4	5.8
30°-40°	3119.8	8.0
40°-50°	5062.1	13.0
50°-60°	8118.4	20.9
60°-70°	10804.9	27.8
70°-80°	5833.8	15.0
80°-90°	973.4	2.5
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°	38798.8	100.0
0°-180°	38798.8	100.0

Coefficient of Utilization



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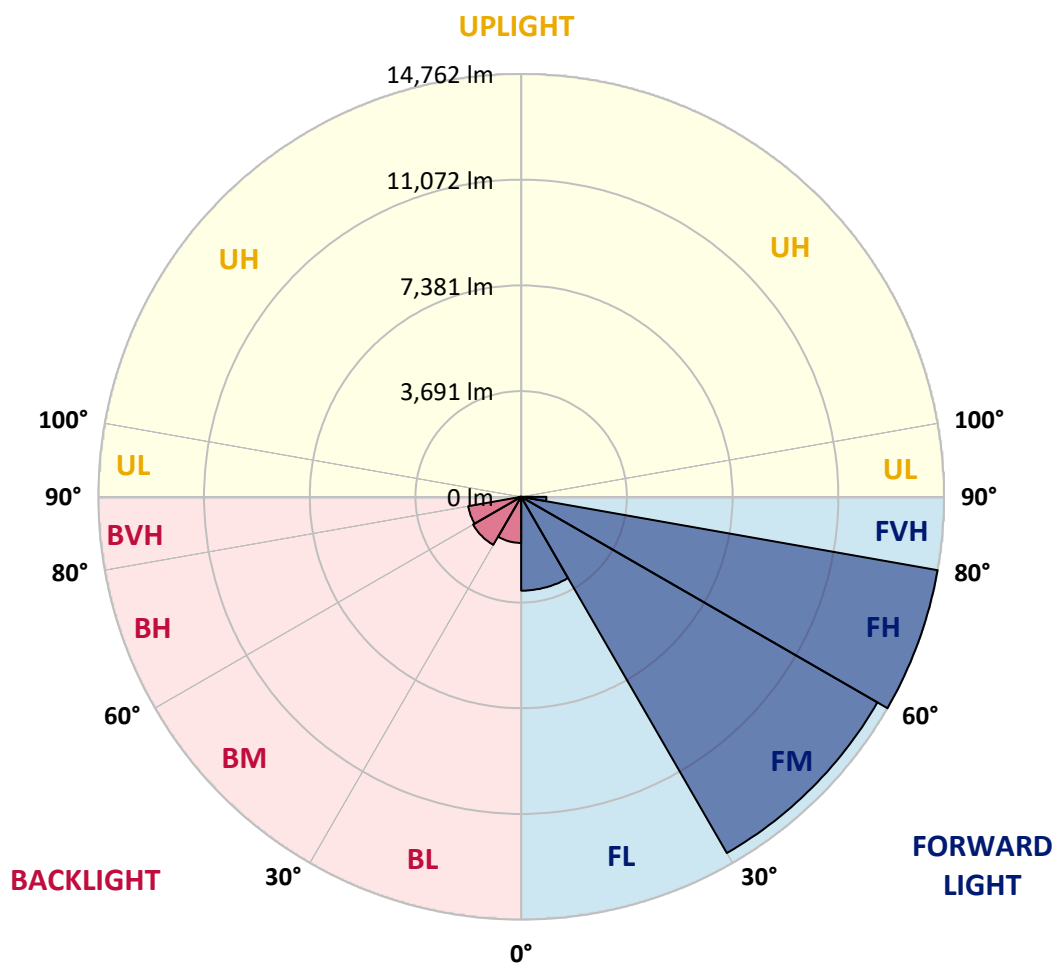
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3276.0	8.4			
FM	(30°-60°)	14361.0	37.0			
FH	(60°-80°)	14762.2	38.0			G5
FVH	(80°-90°)	879.7	2.3			G5
BL	(0°-30°)	1610.3	4.2	B3/2500		
BM	(30°-60°)	1939.2	5.0	B2/2500		
BH	(60°-80°)	1876.6	4.8	B3/2500		G3/2500
BVH	(80°-90°)	93.7	0.2			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	9886.5	9886.5	9886.5	9886.5	9886.5	9886.5	9886.5	9886.5	9886.5	9886.5	9886.5
2.5°	10088.9	10111.4	10102.1	10096.4	10113.3	10087.1	10032.7	10015.8	9989.6	9927.8	9822.8
5°	9710.3	9777.8	9774.1	9824.7	9909.0	9931.5	9907.1	9910.9	9862.2	9785.3	9611.0
7.5°	9056.2	9084.4	9099.3	9209.9	9363.6	9487.3	9592.3	9626.0	9603.5	9537.9	9313.0
10°	8381.5	8404.0	8439.6	8568.9	8763.9	8934.4	9133.1	9247.4	9296.1	9284.9	9033.7
12.5°	7802.4	7824.9	7871.7	8017.9	8250.3	8460.2	8748.9	8891.3	9007.5	9076.9	8807.0
15°	7283.2	7332.0	7376.9	7545.6	7806.1	8081.6	8407.8	8587.7	8767.6	8923.2	8606.4
17.5°	6878.4	6927.1	6953.4	7107.0	7384.4	7721.8	8104.1	8315.9	8540.8	8795.7	8407.8
20°	6644.1	6666.6	6655.4	6741.6	6990.8	7348.8	7802.4	8047.9	8319.7	8675.8	8209.1
22.5°	6578.5	6580.4	6539.2	6529.8	6691.0	6992.7	7480.0	7778.0	8111.6	8597.1	8038.5
25°	6737.8	6732.2	6619.7	6527.9	6544.8	6721.0	7168.9	7515.6	7937.3	8580.2	7907.3
27.5°	7092.1	7108.9	6942.1	6769.7	6599.1	6593.5	6932.7	7298.2	7794.9	8657.0	7851.1
30°	7588.7	7616.8	7438.8	7219.5	6899.0	6634.7	6840.9	7168.9	7706.8	8816.3	7841.7
32.5°	8132.2	8162.2	8027.3	7796.8	7376.9	6889.6	6904.6	7180.1	7703.0	9039.4	7905.5
35°	8711.4	8745.1	8675.8	8480.9	8014.2	7360.1	7148.3	7361.9	7824.9	9380.5	8076.0
37.5°	9358.0	9410.5	9429.2	9243.7	8745.1	7980.4	7547.5	7706.8	8100.4	9854.7	8389.0
40°	10289.5	10362.6	10356.9	10090.8	9582.9	8818.2	8164.1	8205.3	8529.6	10488.1	8889.4
42.5°	12073.7	12088.7	11622.0	11042.9	10505.0	9699.1	8891.3	8857.6	9121.8	11290.3	9626.0
45°	14343.4	14281.6	13243.2	12124.3	11468.4	10711.2	9837.8	9672.9	9873.4	12268.7	10548.1
47.5°	16227.0	16084.6	14772.6	13228.3	12487.9	11811.3	10949.2	10660.6	10771.1	13378.2	11740.1
50°	16881.1	16774.3	15687.2	14146.6	13453.2	13153.3	12317.4	11908.8	11938.8	14701.4	13136.4
52.5°	16740.5	16725.6	16000.2	14752.0	14356.5	14562.7	14255.3	13702.4	13410.1	16170.8	14643.3
55°	16408.8	16440.7	16178.3	15456.7	15389.2	15923.4	16787.4	16378.8	15469.8	17653.3	16200.8
57.5°	15256.2	15338.6	15915.9	16343.2	17051.7	17846.3	18826.6	18710.4	17687.0	19255.7	18052.5
60°	12291.1	12482.3	14030.4	16170.8	18762.8	21248.0	21686.6	21416.7	19973.6	21244.3	20498.4
62.5°	8612.0	8810.7	10651.2	14000.4	18481.7	25090.2	26799.5	25635.6	23257.2	24173.7	23663.9
65°	4610.6	4706.2	6111.8	9714.1	15602.9	25883.0	34272.0	32500.9	28456.3	27785.3	26372.2
67.5°	2543.3	2595.8	3133.7	4904.8	9993.3	22792.4	39032.5	40370.7	34954.2	30190.0	25879.2
69°	2299.7	2348.4	2700.8	3714.7	6687.2	18845.3	38567.7	42445.5	37803.0	29951.9	24057.5
70°	2249.1	2294.0	2610.8	3424.2	5412.8	15533.5	37010.2	41915.1	38481.5	29099.2	22468.2
72.5°	2024.2	2072.9	2380.3	3075.6	4625.6	7744.3	29316.6	35439.7	34937.4	25230.8	17042.3
75°	1887.3	1932.3	2453.4	3011.9	4428.8	4901.1	19327.0	26119.1	25682.5	17649.5	9189.3
77.5°	807.8	804.0	1137.7	2548.9	4494.4	4745.5	10385.1	16317.0	14886.9	7543.7	2638.9
80°	539.8	530.4	539.8	749.7	4121.4	4771.8	5440.9	8282.2	6256.2	1923.0	1300.7
82.5°	464.8	457.3	474.2	457.3	1448.8	5446.5	4625.6	4404.4	2974.4	1092.7	644.7
85°	313.0	299.9	408.6	410.5	684.1	4839.2	5210.3	3720.3	2406.5	648.5	318.6
87.5°	149.9	146.2	238.0	290.5	401.1	1966.1	5845.7	3812.2	2427.1	331.7	151.8
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°	9886.5	9886.5	9886.5	9886.5	9886.5	9886.5	9886.5	9886.5	9886.5	9886.5	9886.5
2.5°	9790.9	9714.1	9639.1	9549.2	9455.4	9350.5	9298.0	9245.5	9232.4	9217.4	9164.9
5°	9521.0	9412.3	9224.9	9018.8	8801.3	8589.6	8428.4	8327.2	8250.3	8211.0	8141.6
7.5°	9172.4	9013.1	8685.1	8329.0	7963.6	7630.0	7341.3	7159.5	6987.1	6906.5	6814.7
10°	8840.7	8602.7	8092.9	7568.1	7043.3	6539.2	6065.0	5729.5	5431.5	5264.7	5146.6
12.5°	8555.8	8229.7	7523.1	6812.8	6093.1	5375.3	4664.9	4106.4	3639.7	3394.2	3268.6
15°	8278.4	7884.8	6981.5	6080.0	5156.0	4179.5	3246.2	2612.7	2226.6	2072.9	2020.4
17.5°	8027.3	7523.1	6438.0	5341.5	4188.9	3008.1	2181.6	1833.0	1684.9	1634.3	1617.5
20°	7755.5	7157.7	5873.8	4569.4	3180.6	2102.9	1703.7	1550.0	1490.0	1475.0	1467.5
22.5°	7493.1	6797.8	5334.0	3742.8	2284.7	1623.1	1463.8	1400.0	1390.7	1403.8	1403.8
25°	7270.1	6475.4	4751.2	2878.8	1677.4	1366.3	1310.1	1295.1	1330.7	1379.4	1388.8
27.5°	7103.3	6211.2	4130.8	2125.4	1336.3	1188.3	1186.4	1210.7	1298.8	1392.5	1411.3
30°	6989.0	5960.0	3467.3	1533.1	1120.8	1045.8	1075.8	1128.3	1257.6	1390.7	1426.3
32.5°	6930.9	5774.5	2775.7	1186.4	959.6	918.4	969.0	1032.7	1160.1	1283.8	1330.7
35°	6975.9	5637.7	2123.5	989.6	847.1	815.3	867.8	929.6	1004.6	1057.1	1092.7
37.5°	7144.5	5583.3	1602.5	886.5	770.3	740.3	781.6	817.2	847.1	862.1	879.0
40°	7508.1	5641.4	1283.8	834.0	727.2	689.7	706.6	719.7	738.4	753.4	760.9
42.5°	8044.2	5815.7	1150.8	813.4	704.7	650.4	646.6	652.2	676.6	704.7	710.3
45°	8793.8	6123.1	1141.4	826.5	693.5	618.5	601.6	609.1	646.6	689.7	697.2
47.5°	9751.6	6591.6	1216.4	865.9	702.8	601.6	573.5	582.9	629.7	687.8	697.2
50°	10911.7	7245.7	1341.9	924.0	744.1	605.4	564.1	569.8	618.5	682.2	691.6
52.5°	12281.8	8173.5	1478.8	980.2	787.2	629.7	571.6	558.5	603.5	659.7	671.0
55°	13805.5	9363.6	1619.3	1030.8	809.7	659.7	586.6	543.5	575.4	622.2	631.6
57.5°	15676.0	11027.9	1863.0	1079.6	824.7	680.3	601.6	528.5	539.8	573.5	581.0
60°	18208.1	13381.9	2292.2	1160.1	858.4	687.8	599.8	515.4	504.2	522.9	526.7
62.5°	21242.4	15938.4	2650.1	1261.4	914.6	693.5	588.5	506.0	474.2	474.2	477.9
65°	23043.6	16622.5	2451.5	1345.7	961.5	687.8	575.4	496.7	451.7	431.1	432.9
67.5°	21516.1	14618.9	2101.0	1362.6	959.6	661.6	554.8	479.8	429.2	397.3	395.5
69°	19602.5	12613.5	1943.6	1317.6	914.6	627.9	528.5	461.1	412.3	378.6	376.7
70°	18060.0	11389.6	1840.5	1268.8	865.9	603.5	507.9	444.2	399.2	367.3	363.6
72.5°	13130.8	7463.1	1572.5	1090.8	714.1	506.0	438.6	389.8	356.1	337.4	333.6
75°	6561.6	3559.1	1276.3	884.6	547.3	404.8	359.9	326.1	309.2	305.5	303.6
77.5°	2155.4	1630.6	912.7	659.7	406.7	316.7	290.5	266.1	262.4	273.6	269.9
80°	1184.5	948.4	579.1	436.7	277.4	232.4	228.7	215.5	221.2	239.9	236.2
82.5°	603.5	492.9	358.0	262.4	187.4	166.8	181.8	174.3	181.8	198.7	196.8
85°	298.0	269.9	226.8	159.3	123.7	106.8	129.3	134.9	138.7	151.8	151.8
87.5°	172.4	159.3	120.0	75.0	61.8	56.2	75.0	73.1	86.2	93.7	91.8
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)