

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: P194498

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194498
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: GLEON-AF-10-LED-E1-SL3-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38821 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-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

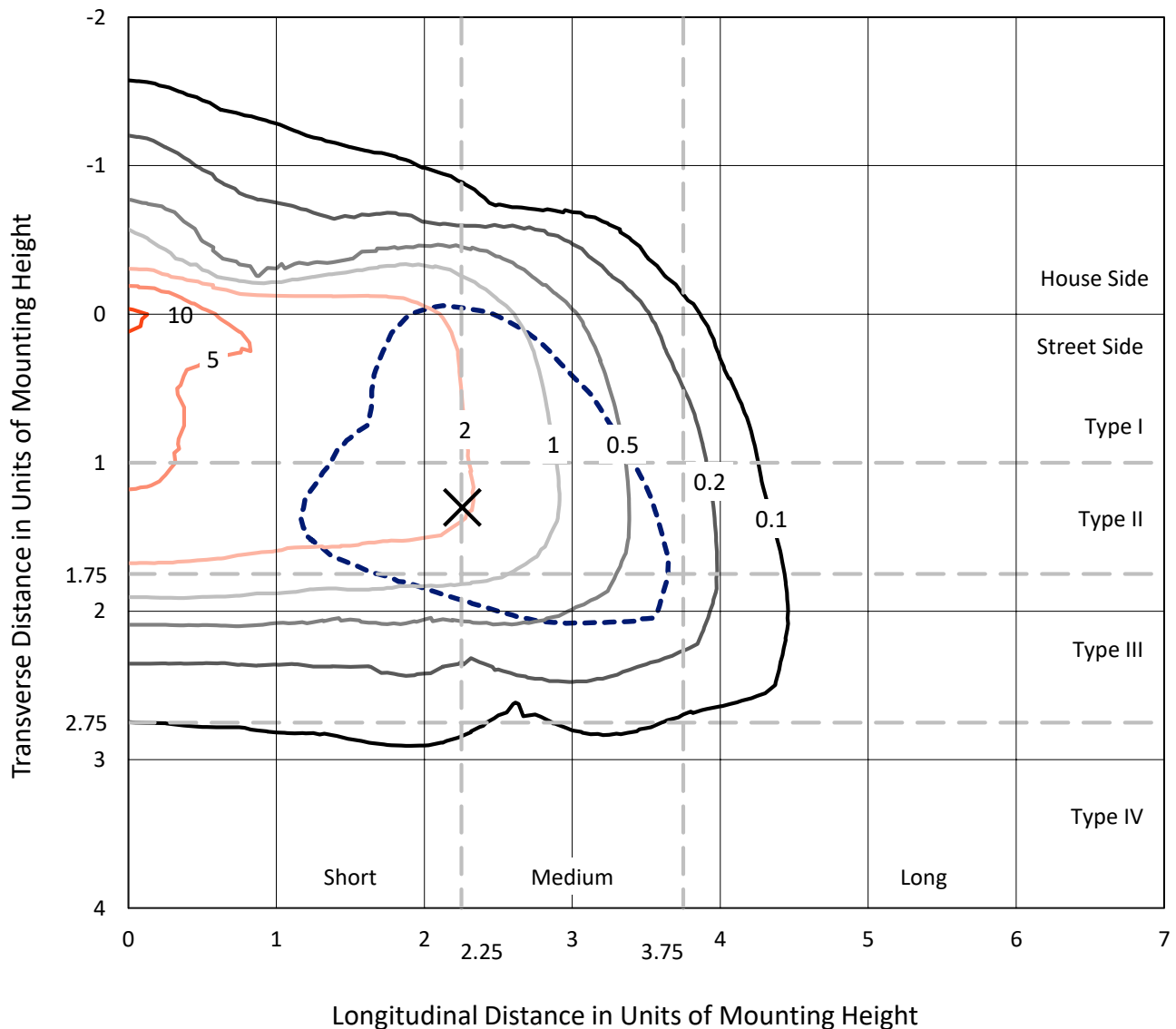


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

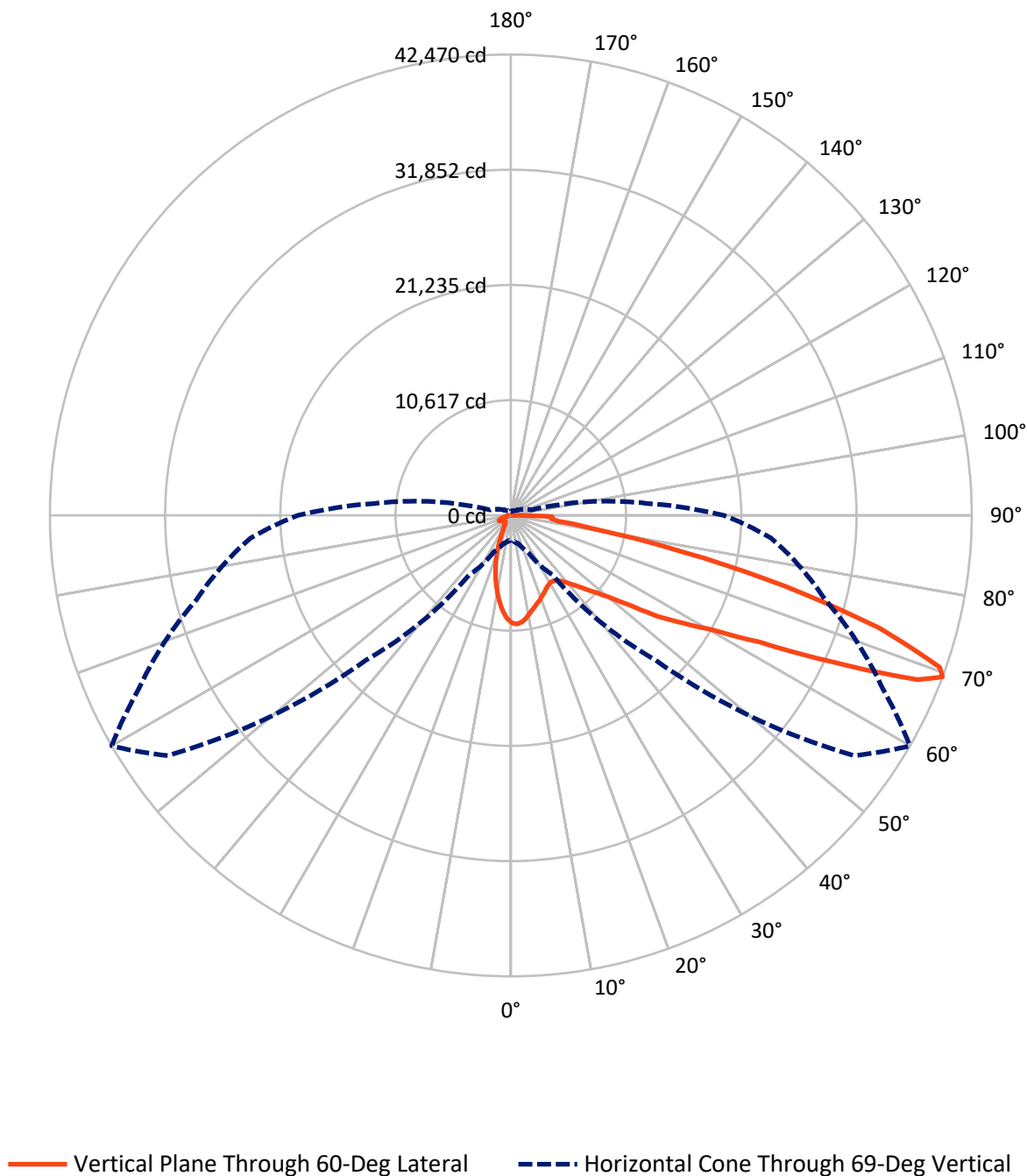


Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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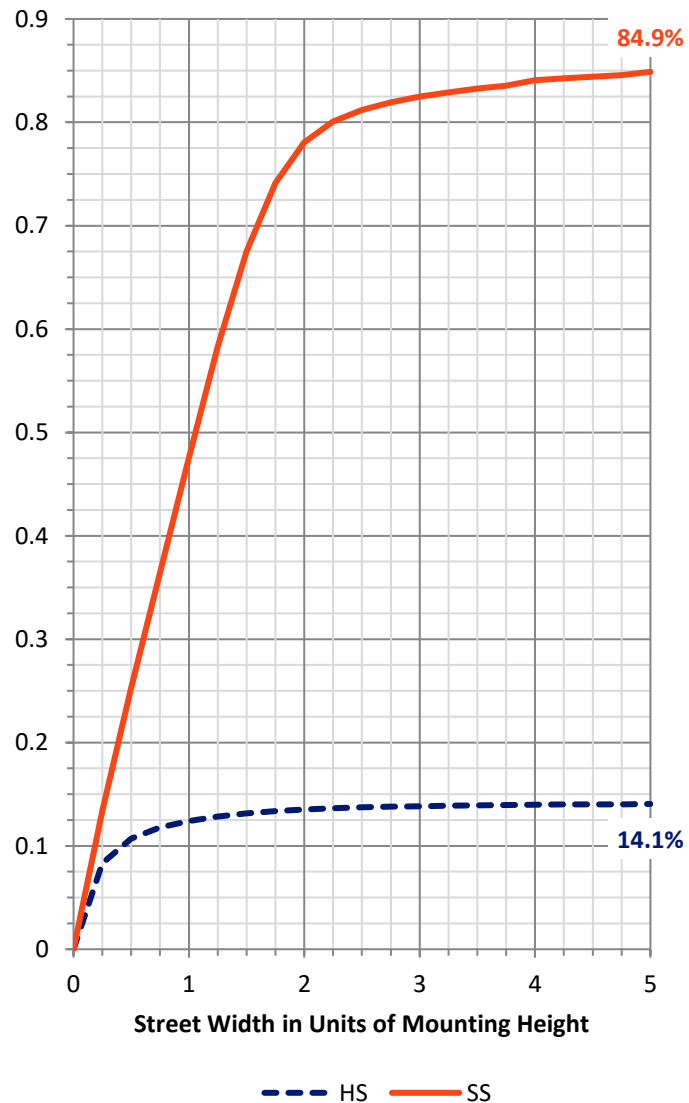
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5523.0	0.0	5523.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	33298.0	0.0	33298.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	38821.0	0.0	38821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.4	2.2
10°-20°	1782.1	4.6
20°-30°	2270.7	5.8
30°-40°	3121.6	8.0
40°-50°	5065.0	13.0
50°-60°	8123.0	20.9
60°-70°	10811.1	27.8
70°-80°	5837.2	15.0
80°-90°	974.0	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°	38821.0	100.0
0°-180°	38821.0	100.0

Coefficient of Utilization



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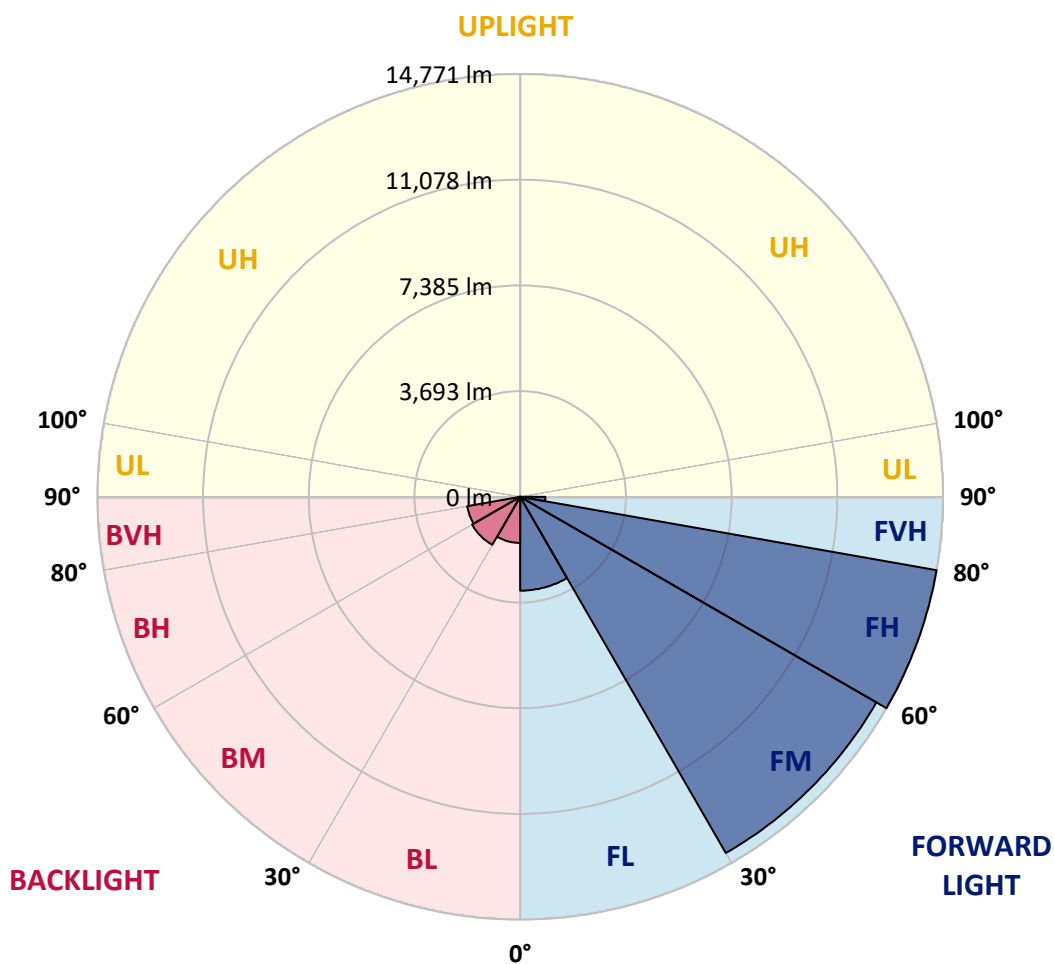
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3277.9	8.4			
FM	(30°-60°)	14369.3	37.0			
FH	(60°-80°)	14770.7	38.0			G5
FVH	(80°-90°)	880.2	2.3			G5
BL	(0°-30°)	1611.2	4.2	B3/2500		
BM	(30°-60°)	1940.3	5.0	B2/2500		
BH	(60°-80°)	1877.6	4.8	B3/2500		G3/2500
BVH	(80°-90°)	93.8	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°	9892.2	9892.2	9892.2	9892.2	9892.2	9892.2	9892.2	9892.2	9892.2	9892.2	9892.2
2.5°	10094.7	10117.2	10107.8	10102.2	10119.1	10092.8	10038.5	10021.6	9995.3	9933.4	9828.4
5°	9715.9	9783.4	9779.7	9830.3	9914.7	9937.2	9912.8	9916.6	9867.8	9790.9	9616.5
7.5°	9061.4	9089.6	9104.6	9215.2	9369.0	9492.7	9597.8	9631.5	9609.0	9543.4	9318.3
10°	8386.3	8408.8	8444.5	8573.8	8768.9	8939.5	9138.3	9252.7	9301.5	9290.2	9038.9
12.5°	7806.9	7829.4	7876.2	8022.5	8255.0	8465.1	8753.9	8896.4	9012.7	9082.1	8812.0
15°	7287.4	7336.2	7381.2	7549.9	7810.6	8086.3	8412.6	8592.6	8772.6	8928.3	8611.4
17.5°	6882.3	6931.1	6957.3	7111.1	7388.7	7726.2	8108.8	8320.7	8545.7	8800.8	8412.6
20°	6647.9	6670.4	6659.2	6745.4	6994.8	7353.0	7806.9	8052.5	8324.4	8680.7	8213.8
22.5°	6582.3	6584.2	6542.9	6533.5	6694.8	6996.7	7484.3	7782.5	8116.3	8602.0	8043.1
25°	6741.7	6736.1	6623.5	6531.7	6548.5	6724.8	7173.0	7519.9	7941.9	8585.1	7911.9
27.5°	7096.1	7113.0	6946.1	6773.6	6602.9	6597.3	6936.7	7302.4	7799.4	8662.0	7855.6
30°	7593.1	7621.2	7443.0	7223.6	6903.0	6638.5	6844.8	7173.0	7711.2	8821.4	7846.2
32.5°	8136.9	8166.9	8031.9	7801.2	7381.2	6893.6	6908.6	7184.3	7707.5	9044.5	7910.0
35°	8716.4	8750.1	8680.7	8485.7	8018.8	7364.3	7152.4	7366.2	7829.4	9385.9	8080.6
37.5°	9363.3	9415.9	9434.6	9249.0	8750.1	7985.0	7551.8	7711.2	8105.0	9860.3	8393.8
40°	10295.4	10368.5	10362.9	10096.6	9588.4	8823.3	8168.8	8210.0	8534.5	10494.1	8894.5
42.5°	12080.6	12095.7	11628.7	11049.2	10511.0	9704.7	8896.4	8862.6	9127.1	11296.8	9631.5
45°	14351.6	14289.7	13250.8	12131.3	11474.9	10717.3	9843.4	9678.4	9879.1	12275.7	10554.2
47.5°	16236.3	16093.8	14781.1	13235.8	12495.1	11818.1	10955.5	10666.7	10777.3	13385.9	11746.8
50°	16890.8	16783.9	15696.2	14154.7	13460.9	13160.8	12324.4	11915.6	11945.6	14709.8	13143.9
52.5°	16750.1	16735.1	16009.4	14760.4	14364.8	14571.0	14263.5	13710.3	13417.7	16180.0	14651.7
55°	16418.2	16450.1	16187.5	15465.6	15398.0	15932.5	16797.0	16388.2	15478.7	17663.4	16210.0
57.5°	15264.9	15347.4	15925.0	16352.6	17061.4	17856.6	18837.3	18721.1	17697.2	19266.8	18062.8
60°	12298.2	12489.5	14038.5	16180.0	18773.6	21260.2	21699.0	21429.0	19985.0	21256.5	20510.1
62.5°	8617.0	8815.8	10657.3	14008.5	18492.3	25104.6	26814.8	25650.3	23270.5	24187.6	23677.5
65°	4613.2	4708.9	6115.3	9719.7	15611.8	25897.8	34291.6	32519.5	28472.6	27801.2	26387.3
67.5°	2544.8	2597.3	3135.5	4907.6	9999.1	22805.5	39054.9	40393.9	34974.2	30207.2	25894.1
69°	2301.0	2349.7	2702.3	3716.8	6691.1	18856.1	38589.8	42469.8	37824.7	29969.1	24071.3
70°	2250.4	2295.4	2612.3	3426.2	5415.9	15542.4	37031.4	41939.1	38503.6	29115.8	22481.0
72.5°	2025.3	2074.1	2381.6	3077.4	4628.2	7748.7	29333.4	35460.0	34957.4	25245.2	17052.1
75°	1888.4	1933.4	2454.8	3013.6	4431.3	4903.9	19338.0	26134.1	25697.2	17659.7	9194.6
77.5°	808.3	804.5	1138.3	2550.4	4497.0	4748.2	10391.0	16326.3	14895.5	7548.1	2640.4
80°	540.1	530.7	540.1	750.1	4123.8	4774.5	5444.0	8286.9	6259.7	1924.1	1301.5
82.5°	465.1	457.6	474.4	457.6	1449.6	5449.6	4628.2	4406.9	2976.1	1093.3	645.1
85°	313.2	300.0	408.8	410.7	684.5	4842.0	5213.3	3722.5	2407.9	648.9	318.8
87.5°	150.0	146.3	238.2	290.7	401.3	1967.2	5849.0	3814.3	2428.5	331.9	151.9
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°	9892.2	9892.2	9892.2	9892.2	9892.2	9892.2	9892.2	9892.2	9892.2	9892.2	9892.2
2.5°	9796.5	9719.7	9644.6	9554.6	9460.9	9355.8	9303.3	9250.8	9237.7	9222.7	9170.2
5°	9526.5	9417.7	9230.2	9023.9	8806.4	8594.5	8433.2	8331.9	8255.0	8215.7	8146.3
7.5°	9177.7	9018.3	8690.1	8333.8	7968.1	7634.3	7345.5	7163.6	6991.1	6910.5	6818.6
10°	8845.8	8607.6	8097.5	7572.4	7047.4	6542.9	6068.5	5732.8	5434.6	5267.7	5149.6
12.5°	8560.7	8234.4	7527.4	6816.7	6096.6	5378.3	4667.6	4108.8	3641.8	3396.2	3270.5
15°	8283.2	7889.4	6985.5	6083.5	5158.9	4181.9	3248.0	2614.2	2227.9	2074.1	2021.6
17.5°	8031.9	7527.4	6441.6	5344.6	4191.3	3009.8	2182.8	1834.0	1685.9	1635.3	1618.4
20°	7760.0	7161.8	5877.2	4572.0	3182.4	2104.1	1704.6	1550.9	1490.9	1475.9	1468.4
22.5°	7497.4	6801.7	5337.1	3745.0	2286.0	1624.0	1464.6	1400.8	1391.5	1404.6	1404.6
25°	7274.3	6479.1	4753.9	2880.5	1678.4	1367.1	1310.8	1295.8	1331.5	1380.2	1389.6
27.5°	7107.4	6214.7	4133.1	2126.6	1337.1	1188.9	1187.1	1211.4	1299.6	1393.3	1412.1
30°	6993.0	5963.4	3469.3	1534.0	1121.4	1046.4	1076.4	1128.9	1258.3	1391.5	1427.1
32.5°	6934.8	5777.8	2777.3	1187.1	960.2	918.9	969.5	1033.3	1160.8	1284.6	1331.5
35°	6979.8	5640.9	2124.7	990.2	847.6	815.8	868.3	930.1	1005.2	1057.7	1093.3
37.5°	7148.6	5586.5	1603.4	887.0	770.7	740.7	782.0	817.6	847.6	862.6	879.5
40°	7512.4	5644.6	1284.6	834.5	727.6	690.1	707.0	720.1	738.9	753.9	761.4
42.5°	8048.8	5819.0	1151.4	813.9	705.1	650.7	647.0	652.6	677.0	705.1	710.7
45°	8798.9	6126.6	1142.1	827.0	693.9	618.8	602.0	609.5	647.0	690.1	697.6
47.5°	9757.2	6595.4	1217.1	866.4	703.2	602.0	573.8	583.2	630.1	688.2	697.6
50°	10918.0	7249.9	1342.7	924.5	744.5	605.7	564.5	570.1	618.8	682.6	692.0
52.5°	12288.8	8178.2	1479.6	980.8	787.6	630.1	572.0	558.8	603.8	660.1	671.4
55°	13813.4	9369.0	1620.3	1031.4	810.1	660.1	587.0	543.8	575.7	622.6	632.0
57.5°	15685.0	11034.2	1864.0	1080.2	825.1	680.7	602.0	528.8	540.1	573.8	581.3
60°	18218.5	13389.6	2293.5	1160.8	858.9	688.2	600.1	515.7	504.5	523.2	527.0
62.5°	21254.6	15947.5	2651.7	1262.1	915.1	693.9	588.8	506.3	474.4	474.4	478.2
65°	23056.8	16632.0	2452.9	1346.5	962.0	688.2	575.7	497.0	451.9	431.3	433.2
67.5°	21528.4	14627.3	2102.2	1363.3	960.2	662.0	555.1	480.1	429.4	397.6	395.7
69°	19613.7	12620.7	1944.7	1318.3	915.1	628.2	528.8	461.3	412.6	378.8	376.9
70°	18070.3	11396.2	1841.5	1269.6	866.4	603.8	508.2	444.4	399.4	367.6	363.8
72.5°	13138.3	7467.4	1573.4	1091.4	714.5	506.3	438.8	390.1	356.3	337.6	333.8
75°	6565.4	3561.2	1277.1	885.1	547.6	405.1	360.1	326.3	309.4	305.7	303.8
77.5°	2156.6	1631.5	913.3	660.1	406.9	316.9	290.7	266.3	262.5	273.8	270.0
80°	1185.2	948.9	579.5	436.9	277.5	232.5	228.8	215.7	221.3	240.0	236.3
82.5°	603.8	493.2	358.2	262.5	187.5	166.9	181.9	174.4	181.9	198.8	196.9
85°	298.2	270.0	226.9	159.4	123.8	106.9	129.4	135.0	138.8	151.9	151.9
87.5°	172.5	159.4	120.0	75.0	61.9	56.3	75.0	73.1	86.3	93.8	91.9
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)