

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: P192834

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL2-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33731.6 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 333
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



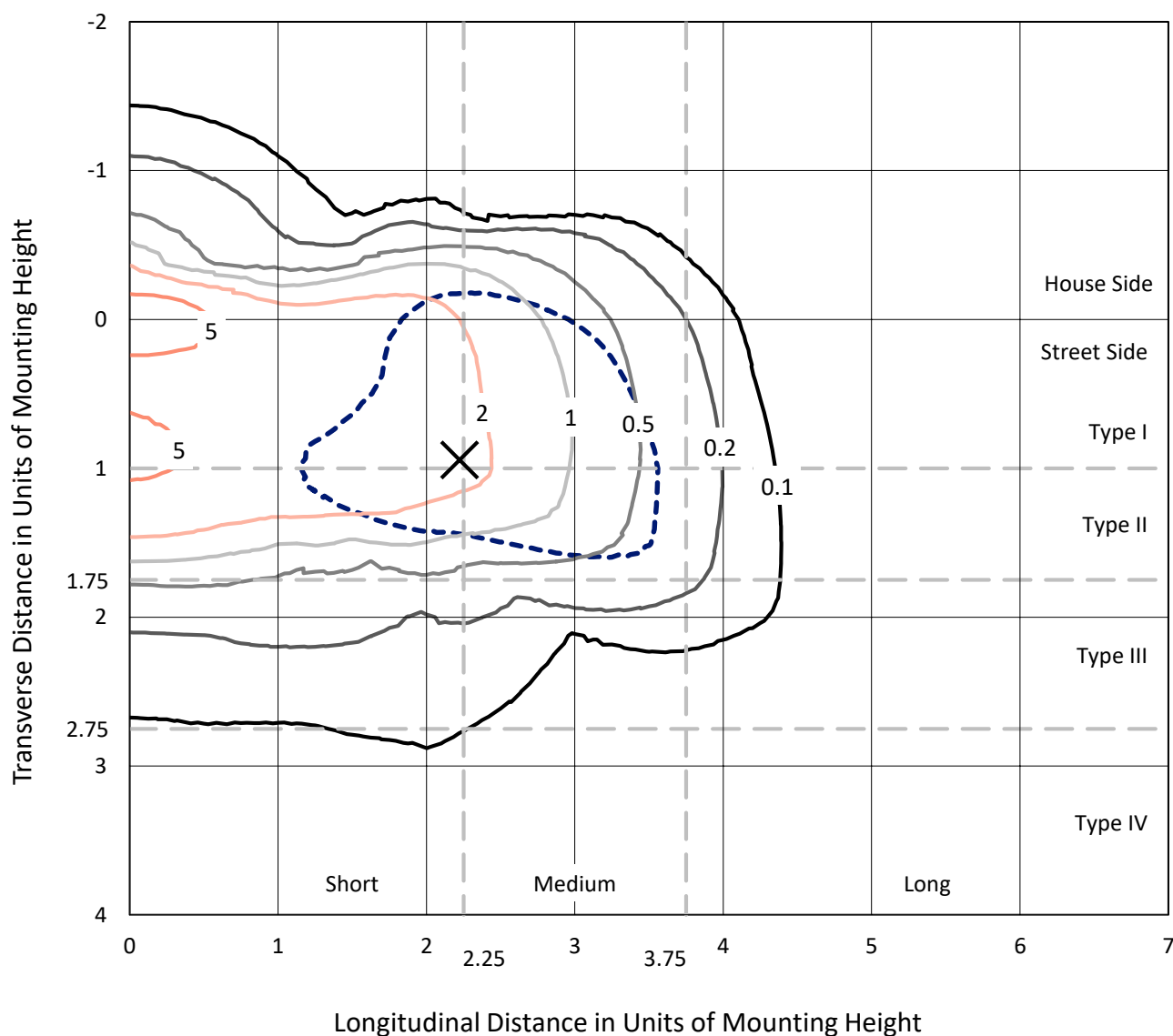
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

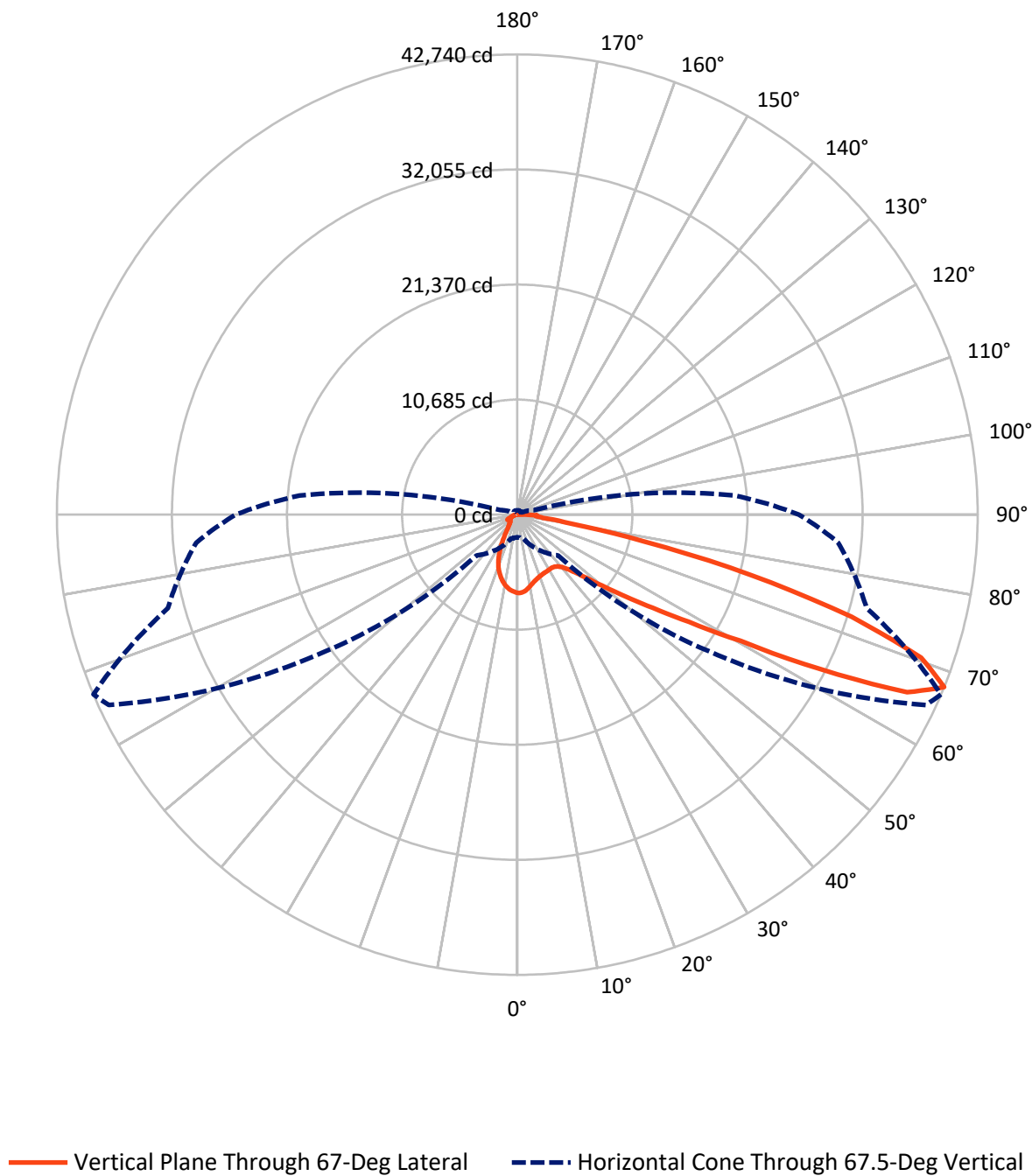


Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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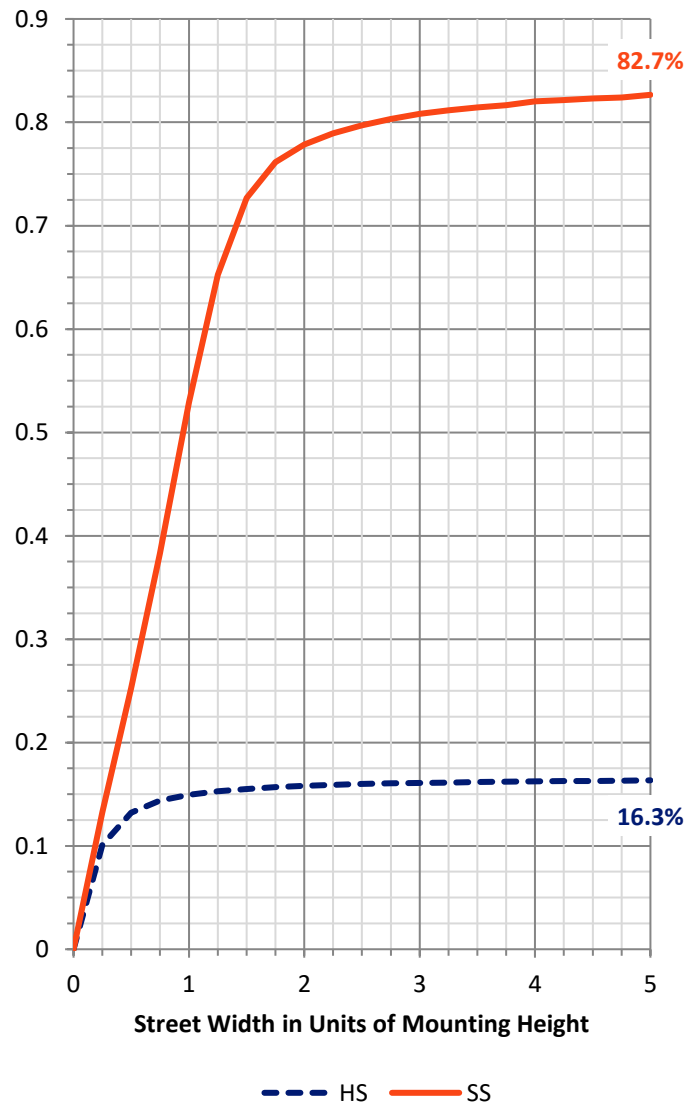
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5588.9	0.0	5588.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	28142.7	0.0	28142.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	33731.6	0.0	33731.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.7	1.8
10°-20°	1436.3	4.3
20°-30°	1946.9	5.8
30°-40°	2767.7	8.2
40°-50°	4630.5	13.7
50°-60°	7325.5	21.7
60°-70°	9331.9	27.7
70°-80°	4888.1	14.5
80°-90°	783.9	2.3
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°	33731.6	100.0
0°-180°	33731.6	100.0

Coefficient of Utilization



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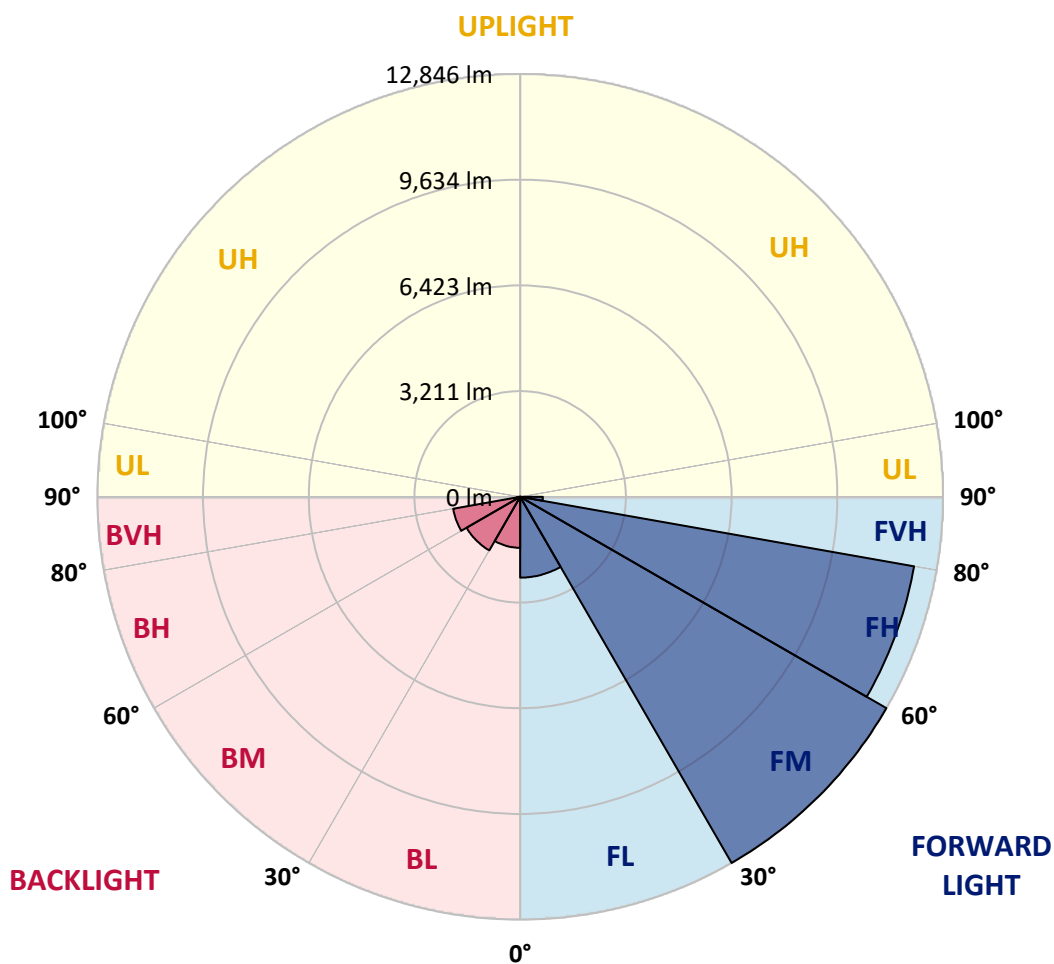
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2454.8	7.3			
FM	(30°-60°)	12845.7	38.1			
FH	(60°-80°)	12152.8	36.0			G5
FVH	(80°-90°)	689.3	2.0			G4/750
BL	(0°-30°)	1549.1	4.6	B3/2500		
BM	(30°-60°)	1878.1	5.6	B2/2500		
BH	(60°-80°)	2067.2	6.1	B3/2500		G3/2500
BVH	(80°-90°)	94.6	0.3			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7275.8	7275.8	7275.8	7275.8	7275.8	7275.8	7275.8	7275.8	7275.8	7275.8	7275.8
2.5°	6976.4	6988.0	7024.6	7048.0	7152.7	7197.7	7229.2	7260.9	7265.8	7280.8	7265.8
5°	6244.5	6269.4	6337.7	6414.2	6617.1	6776.8	6944.8	7119.5	7151.0	7264.2	7295.8
7.5°	5677.2	5670.7	5727.2	5818.7	6026.6	6247.9	6542.2	6889.9	6958.0	7212.6	7335.6
10°	5263.1	5258.1	5317.9	5412.8	5610.8	5820.3	6153.1	6628.8	6725.2	7131.2	7374.0
12.5°	4957.0	4958.6	5018.6	5123.3	5324.6	5535.8	5873.6	6376.0	6499.0	7036.3	7413.9
15°	4754.1	4767.4	4815.6	4927.0	5123.3	5334.6	5665.6	6186.3	6324.4	6961.5	7458.8
17.5°	4685.9	4707.6	4724.2	4805.7	4973.6	5184.9	5509.3	6046.5	6193.0	6909.9	7498.7
20°	4749.1	4774.1	4742.4	4770.7	4877.2	5063.5	5386.2	5936.8	6086.5	6851.6	7503.7
22.5°	5020.3	5043.5	4950.3	4868.8	4862.1	4975.3	5284.7	5850.3	6005.0	6808.4	7505.3
25°	5497.6	5512.5	5356.2	5166.7	4982.0	4943.7	5213.2	5790.4	5955.0	6770.1	7473.8
27.5°	6083.1	6094.8	5915.2	5635.7	5264.7	5018.6	5188.1	5755.4	5926.8	6736.9	7420.6
30°	6795.1	6850.0	6608.8	6256.1	5715.6	5239.7	5238.1	5737.2	5895.2	6680.3	7315.8
32.5°	7523.7	7547.0	7380.6	7022.9	6322.8	5629.0	5377.8	5750.5	5886.9	6612.2	7182.7
35°	8262.1	8292.2	8184.1	7896.2	7152.7	6199.6	5650.7	5828.7	5938.5	6588.9	7089.5
37.5°	9218.8	9258.6	9109.0	8776.2	8162.4	6973.0	6104.8	6024.9	6096.4	6655.4	7061.2
40°	10730.8	10712.5	10275.0	9779.2	9267.0	7962.9	6753.6	6357.6	6399.2	6870.0	7147.7
42.5°	12490.6	12445.7	11692.3	10913.7	10481.2	9160.6	7611.9	6934.8	6926.5	7292.5	7452.1
45°	13894.6	13858.0	13179.3	12219.5	11873.5	10524.5	8721.3	7794.8	7733.3	7962.9	8014.3
47.5°	14654.8	14656.5	14265.6	13482.0	13473.8	12257.8	10146.9	9039.0	8932.6	9040.7	8985.8
50°	14388.7	14423.6	14382.1	14132.4	14934.2	14530.1	12008.2	10774.0	10559.5	10665.9	10454.6
52.5°	13101.2	13146.1	13392.2	13774.9	15548.0	17276.3	14742.9	12929.8	12680.3	12642.1	12407.5
55°	10819.0	10873.8	11376.2	12415.7	15037.4	19121.1	19057.9	15677.8	15280.2	14919.3	14819.5
57.5°	7457.2	7548.6	8357.0	9900.7	13385.6	19678.3	24196.2	19595.2	18786.7	17525.8	17549.1
60°	4203.5	4309.9	5263.1	6665.4	10052.1	19072.9	28105.2	25528.7	23821.9	20578.2	20751.3
62.5°	2673.1	2787.9	3511.5	4631.0	6031.5	15812.5	29707.1	33777.5	31610.2	24340.9	24510.5
65°	2164.1	2214.0	2555.0	3822.6	4379.7	9526.5	28491.2	40572.7	39764.3	29116.6	28324.8
67.5°	2112.5	2129.1	2305.5	3208.7	4200.2	5354.6	22725.7	41843.4	42740.0	33576.3	29913.4
70°	2087.6	2145.9	2598.3	3062.3	4022.2	4516.2	13656.8	38360.3	39775.9	34742.4	27799.2
72.5°	1013.1	1009.7	1307.5	2769.6	4531.2	4684.2	7016.3	31037.9	32458.4	30099.8	22843.8
75°	816.7	746.9	713.6	1014.7	4356.5	4837.2	4471.3	21356.7	22384.7	20180.7	14042.6
77.5°	775.2	691.9	633.8	635.5	1841.4	5130.0	3787.6	11820.3	12119.7	9115.6	3847.4
80°	642.1	565.5	524.0	590.5	891.5	4885.5	4095.4	5349.6	4908.8	2238.9	1280.8
82.5°	445.8	405.9	394.2	495.7	713.6	3481.5	4762.4	2874.4	2410.3	1121.1	790.2
85°	284.4	242.9	269.5	361.0	555.6	1606.8	4905.4	2240.7	1781.6	712.0	445.8
87.5°	131.4	106.4	133.1	199.6	362.6	554.0	4667.5	2516.8	1834.8	376.0	281.2
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°	7275.8	7275.8	7275.8	7275.8	7275.8	7275.8	7275.8	7275.8	7275.8	7275.8	7275.8
2.5°	7279.2	7247.5	7222.6	7176.0	7124.5	7074.5	7029.6	6973.0	6956.4	6941.5	6964.7
5°	7302.5	7270.8	7179.3	7036.3	6878.3	6730.3	6582.3	6455.8	6377.6	6334.3	6359.3
7.5°	7337.5	7292.5	7102.8	6839.9	6555.5	6296.1	6028.3	5813.6	5655.7	5580.8	5602.4
10°	7369.0	7282.4	6973.0	6578.8	6163.0	5777.1	5354.6	5005.2	4745.7	4609.3	4642.7
12.5°	7382.3	7244.2	6791.8	6252.8	5682.2	5116.7	4494.6	3972.2	3599.6	3463.3	3435.0
15°	7395.5	7200.9	6592.1	5881.9	5101.8	4301.6	3429.9	2804.5	2495.2	2426.9	2412.0
17.5°	7398.9	7126.1	6365.9	5479.4	4421.4	3331.9	2345.5	1947.9	1949.5	2059.3	2072.6
20°	7364.0	7014.7	6091.4	4978.6	3606.3	2303.8	1610.2	1541.9	1793.2	2067.6	2100.9
22.5°	7284.1	6866.6	5780.4	4394.7	2673.1	1517.1	1245.9	1320.7	1645.1	1981.1	2019.4
25°	7182.7	6687.0	5412.8	3717.8	1769.9	1084.5	1044.6	1136.1	1355.7	1580.2	1601.8
27.5°	7044.6	6474.0	5000.2	2942.6	1149.4	893.3	919.9	981.4	1071.3	1171.0	1181.0
30°	6866.6	6219.6	4559.5	2145.9	868.3	803.4	841.8	874.9	913.2	969.7	974.8
32.5°	6662.0	5975.1	4106.9	1482.1	770.2	756.8	786.7	803.4	833.4	868.3	871.7
35°	6490.6	5742.1	3637.9	1047.9	728.5	721.8	741.9	748.5	776.9	815.1	818.4
37.5°	6392.5	5552.5	3153.9	845.0	700.4	690.3	702.0	702.0	741.9	798.4	806.8
40°	6399.2	5447.6	2669.8	763.5	677.0	663.8	665.4	665.4	717.0	778.5	783.5
42.5°	6580.4	5474.3	2240.7	731.9	658.8	643.7	635.5	640.4	683.6	723.7	726.9
45°	7006.4	5662.3	1838.1	712.0	640.4	635.5	617.1	615.4	632.1	650.4	650.4
47.5°	7705.0	6033.3	1565.2	698.6	625.4	623.8	602.1	580.5	578.8	585.5	585.5
50°	8841.1	6672.0	1382.3	683.6	615.4	602.1	577.2	543.9	532.3	537.3	537.3
52.5°	10544.5	7811.5	1312.4	663.8	593.9	572.2	543.9	510.7	500.7	502.4	502.4
55°	12778.4	9561.4	1302.5	640.4	570.6	535.6	512.3	487.4	475.8	479.1	479.1
57.5°	15508.1	11981.7	1480.5	603.8	538.9	499.0	485.7	469.0	460.7	465.8	464.2
60°	18826.7	15148.8	2195.7	565.5	507.3	465.8	465.8	452.5	445.8	450.8	449.2
62.5°	22649.2	18786.7	3087.3	537.3	474.0	439.1	445.8	439.1	432.4	435.8	434.2
65°	26039.3	21157.1	2891.0	515.7	440.9	414.2	425.8	422.5	417.5	420.8	419.2
67.5°	26137.4	20278.8	1623.5	492.3	409.1	389.3	405.9	404.3	400.9	404.3	402.5
70°	23326.2	17123.3	914.9	449.2	376.0	359.4	382.6	380.9	377.6	384.3	382.6
72.5°	18688.6	12425.8	668.6	395.8	342.6	327.7	354.3	352.7	352.7	362.6	357.6
75°	10754.1	6394.2	533.9	339.4	307.8	296.1	319.4	321.0	324.4	337.7	327.7
77.5°	3065.7	1992.8	435.8	287.8	264.5	259.5	282.8	286.2	287.8	302.7	289.4
80°	1139.5	918.3	359.4	241.3	216.3	217.9	239.5	244.5	246.2	261.1	244.5
82.5°	726.9	605.6	291.0	186.3	169.7	168.0	194.6	201.2	201.2	202.9	193.0
85°	424.2	362.6	219.6	134.7	119.7	114.7	144.8	156.3	151.4	148.0	141.4
87.5°	284.4	249.5	134.7	74.9	64.9	61.5	84.7	93.2	89.8	84.7	79.9
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)