

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: P192868

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39331.2 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

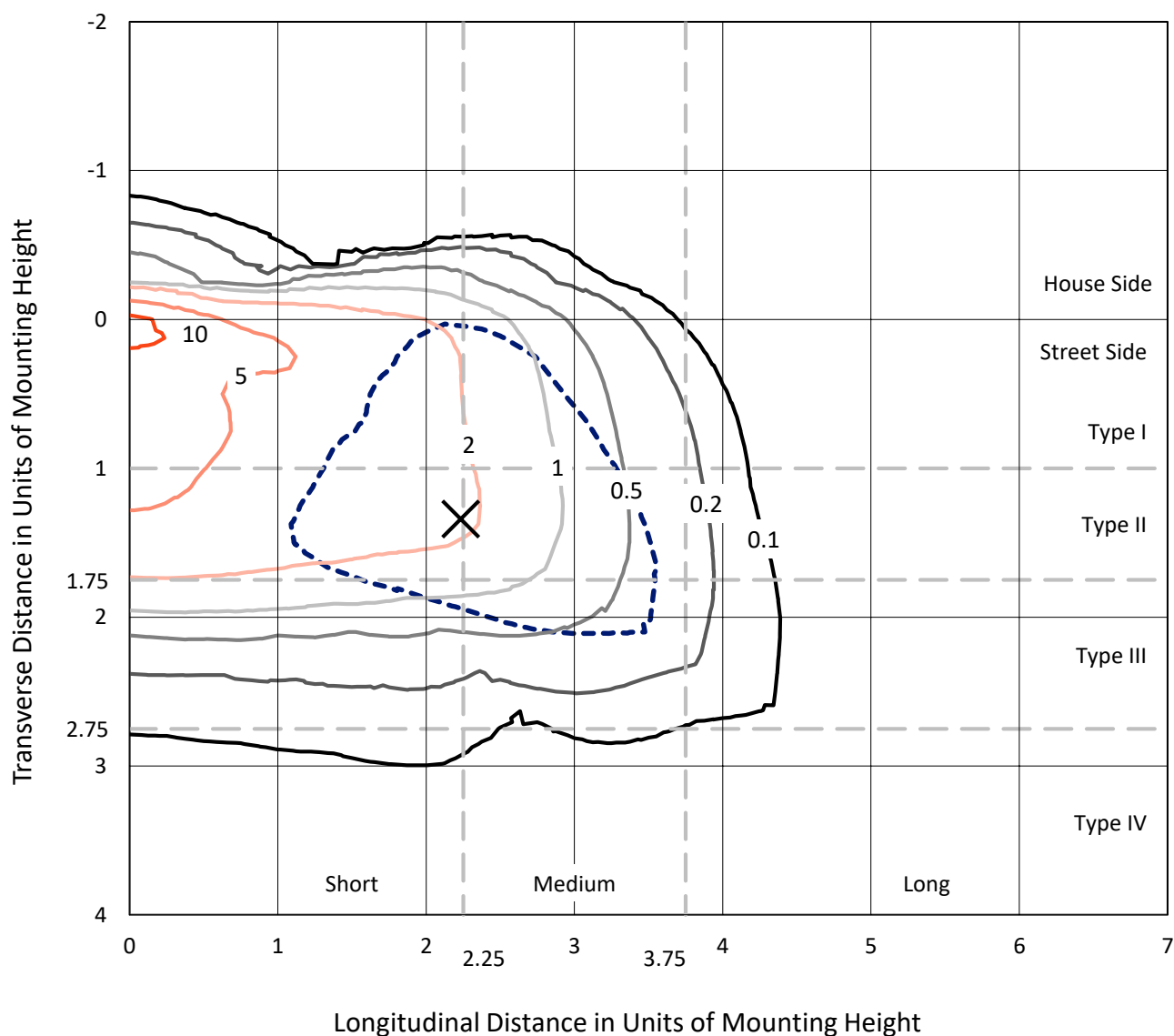


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

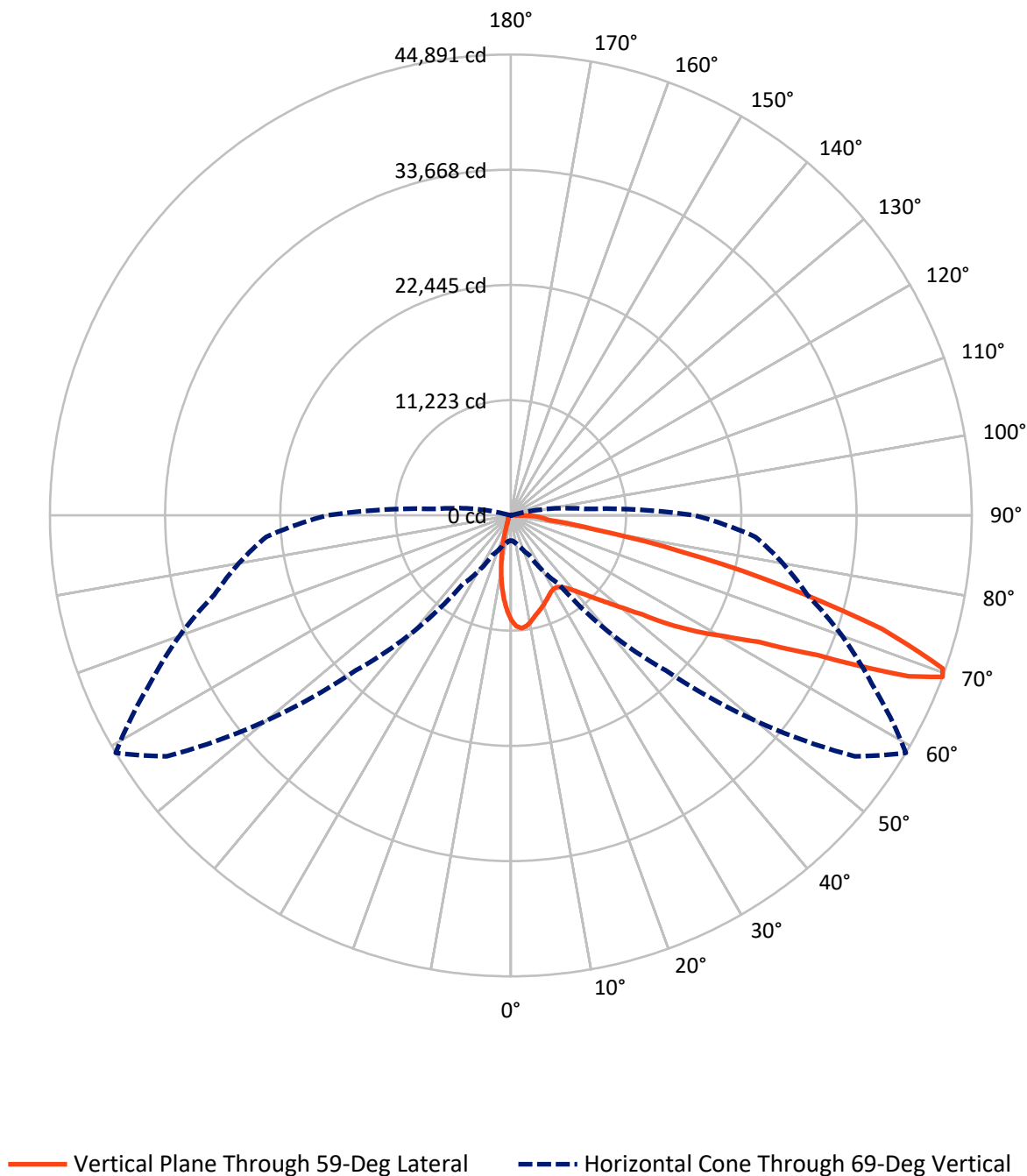


Based on 30 foot mounting height. Maximum calculated value = 11.4 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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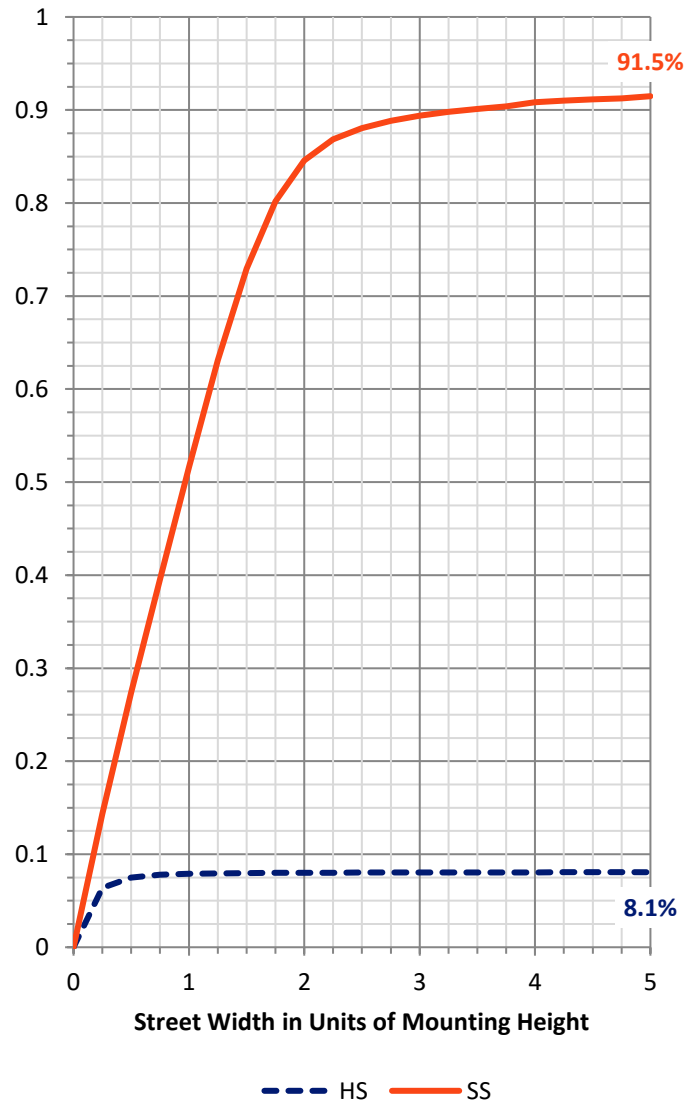
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3203.0	0.0	3203.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	36128.1	0.0	36128.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	39331.2	0.0	39331.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.0	2.1
10°-20°	1717.0	4.4
20°-30°	2310.5	5.9
30°-40°	3354.6	8.5
40°-50°	5585.7	14.2
50°-60°	8713.6	22.2
60°-70°	10782.5	27.4
70°-80°	5464.4	13.9
80°-90°	571.8	1.5
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°	39331.2	100.0
0°-180°	39331.2	100.0

Coefficient of Utilization



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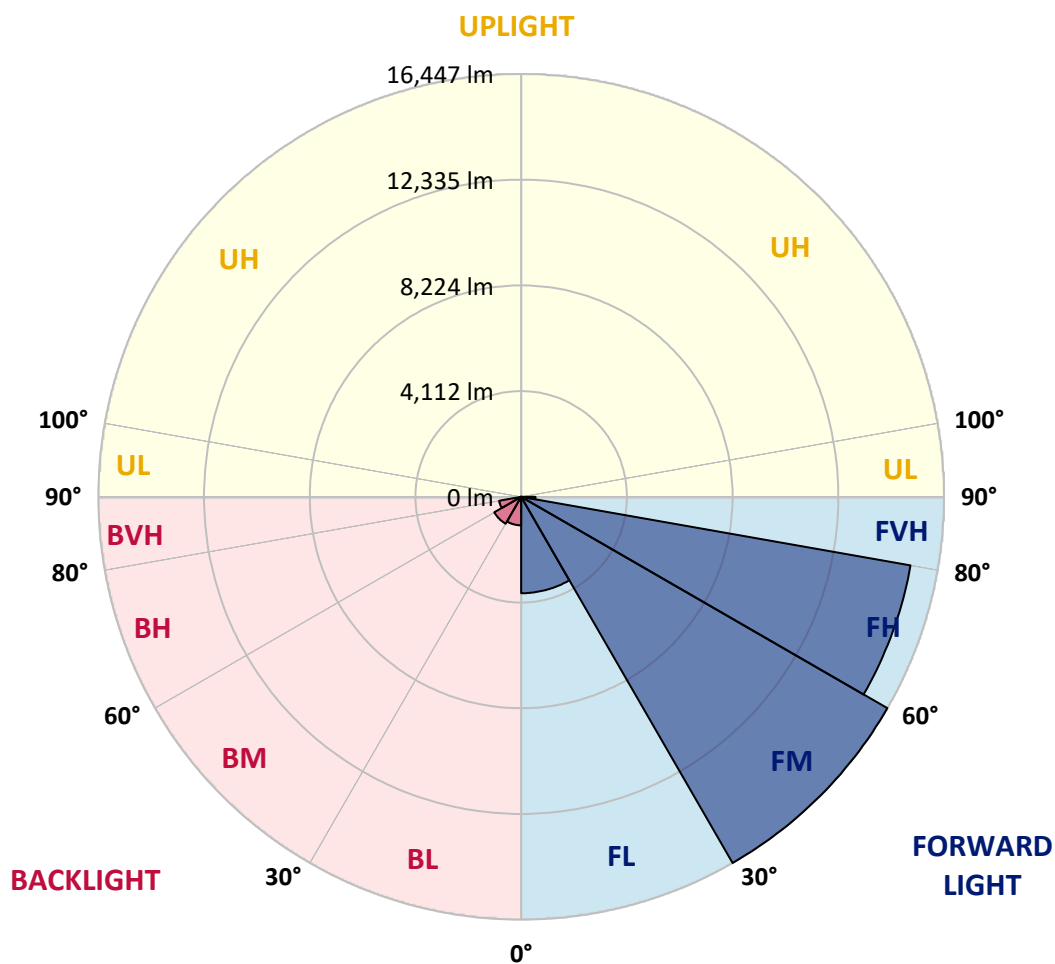
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3749.8	9.5			
FM	(30°-60°)	16447.1	41.8			
FH	(60°-80°)	15377.0	39.1			G5
FVH	(80°-90°)	554.2	1.4			G4/750
BL	(0°-30°)	1108.7	2.8	B3/2500		
BM	(30°-60°)	1206.9	3.1	B2/2500		
BH	(60°-80°)	869.9	2.2	B2/1000		G2/1000
BVH	(80°-90°)	17.6	0.0			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10237.4	10237.4	10237.4	10237.4	10237.4	10237.4	10237.4	10237.4	10237.4	10237.4	10237.4
2.5°	11220.4	11215.9	11167.1	11144.8	11104.8	11020.2	10889.0	10820.1	10708.8	10515.3	10255.2
5°	11118.1	11171.4	11200.3	11202.6	11231.6	11200.3	11082.5	11024.7	10871.2	10559.8	10092.9
7.5°	10424.2	10444.2	10526.5	10597.6	10735.6	10866.8	10909.0	10884.5	10793.4	10459.7	9839.3
10°	9681.4	9701.3	9799.3	9892.7	10079.5	10281.9	10495.3	10539.8	10577.6	10317.5	9594.6
12.5°	9040.7	9060.9	9161.0	9283.2	9501.1	9750.3	10081.7	10155.1	10321.8	10181.8	9398.9
15°	8489.2	8498.1	8596.0	8747.2	9007.5	9327.7	9703.6	9821.5	10077.2	10086.2	9227.6
17.5°	8019.9	8042.2	8102.2	8246.8	8531.5	8927.3	9365.4	9534.5	9834.8	10006.1	9060.9
20°	7733.1	7755.3	7753.0	7833.2	8088.9	8511.6	9027.4	9229.9	9594.6	9923.8	8911.8
22.5°	7677.4	7677.4	7619.6	7608.5	7759.7	8113.4	8676.1	8922.9	9378.9	9888.2	8807.3
25°	7875.4	7866.5	7721.9	7604.1	7610.8	7822.0	8335.8	8629.4	9196.5	9912.6	8751.6
27.5°	8293.6	8282.4	8100.1	7875.4	7695.2	7693.1	8077.7	8393.7	9051.9	10028.3	8773.9
30°	8871.8	8867.4	8669.4	8387.0	8059.9	7759.7	7988.8	8275.8	8958.5	10237.4	8825.1
32.5°	9503.4	9496.7	9347.6	9049.7	8636.1	8059.9	8082.2	8322.4	8985.2	10515.3	8949.7
35°	10172.8	10161.7	10097.2	9837.0	9381.1	8613.8	8389.2	8576.0	9154.3	10931.3	9194.2
37.5°	10897.8	10909.0	10955.8	10706.7	10228.5	9390.0	8902.9	9029.7	9494.5	11496.1	9592.4
40°	11967.7	11965.4	11981.1	11654.0	11193.7	10339.6	9621.3	9661.4	10063.9	12245.7	10197.2
42.5°	13909.2	13773.7	13362.2	12695.0	12232.3	11425.0	10526.5	10484.2	10760.0	13173.1	11044.7
45°	16518.2	16229.0	15161.5	13882.6	13291.0	12648.3	11640.7	11505.1	11680.8	14287.4	12090.0
47.5°	18762.2	18462.0	16951.8	15119.2	14414.1	13809.2	12946.2	12701.6	12759.4	15535.0	13415.5
50°	19525.0	19378.2	18059.4	16195.6	15501.7	15270.4	14460.9	14162.8	14080.6	16978.5	14952.3
52.5°	19260.3	19249.3	18370.8	16894.0	16498.0	16782.8	16366.8	16022.1	15719.6	18499.8	16515.8
55°	18835.5	18891.2	18497.5	17505.6	17492.2	18164.0	18973.4	18686.6	17810.3	20152.3	17863.7
57.5°	17663.5	17901.5	18426.3	18662.1	19209.2	19896.4	21144.2	21313.2	20276.8	21417.8	18982.3
60°	14331.9	14854.5	16571.5	18828.8	21422.1	23134.7	23764.1	23908.6	22300.7	22469.7	20492.4
62.5°	10172.8	10706.7	12884.0	16702.7	21455.6	27389.3	27667.2	27100.2	24529.1	24028.8	23096.9
65°	5400.0	5811.5	7590.7	12056.6	18602.1	28376.9	34492.9	32802.7	28461.3	27095.7	26461.8
67.5°	2762.3	2886.8	3594.1	5900.4	12788.4	25205.2	40611.3	41801.3	35238.1	30138.3	26299.6
69°	2444.2	2517.7	2986.9	4265.7	8189.0	21348.7	40909.4	44890.5	38785.4	29884.7	23899.8
70°	2366.4	2430.9	2857.9	3861.0	6400.9	17903.7	39768.4	44619.1	39692.8	28919.5	22107.2
72.5°	2008.3	2063.9	2544.3	3411.7	5202.1	8887.3	32304.4	37809.0	35618.3	24091.0	16002.1
75°	1343.4	1525.7	2442.1	3198.2	4839.5	5048.7	21297.6	27322.6	25381.0	16249.0	8335.8
77.5°	322.6	347.0	689.4	2544.3	4425.9	4443.7	10953.5	16985.1	13853.6	5791.5	1970.5
80°	173.5	166.8	193.5	504.9	4121.2	4170.1	4930.8	8244.6	4946.2	960.8	649.4
82.5°	122.4	115.7	124.5	211.3	1296.6	3798.7	3567.5	3732.0	2050.6	369.2	291.4
85°	44.5	42.3	69.0	191.3	407.0	2184.0	3665.2	3078.1	1661.4	169.1	213.5
87.5°	15.6	13.3	26.7	104.6	124.5	929.7	2261.8	2326.3	653.9	102.2	100.1
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°	10237.4	10237.4	10237.4	10237.4	10237.4	10237.4	10237.4	10237.4	10237.4	10237.4	10237.4
2.5°	10146.2	10008.2	9754.7	9494.5	9254.4	8965.2	8820.6	8678.3	8618.3	8596.0	8491.5
5°	9852.6	9619.0	9080.9	8540.4	8042.2	7512.8	7163.7	6883.5	6718.9	6638.8	6512.1
7.5°	9476.7	9094.2	8277.9	7444.0	6667.8	5902.6	5335.5	4899.6	4599.4	4454.8	4323.6
10°	9112.0	8602.6	7441.7	6305.3	5251.0	4236.8	3454.0	2886.8	2524.3	2357.5	2250.7
12.5°	8785.0	8124.5	6634.3	5195.4	3872.0	2684.4	1888.2	1436.8	1212.1	1134.2	1096.4
15°	8493.7	7684.1	5871.5	4141.3	2622.2	1534.6	1032.0	878.6	842.9	842.9	838.4
17.5°	8217.9	7252.6	5135.4	3151.5	1645.8	938.5	785.1	765.1	765.1	774.0	774.0
20°	7953.2	6841.2	4423.7	2261.8	1036.5	745.0	709.5	705.0	709.5	720.6	720.6
22.5°	7726.4	6467.6	3758.6	1552.3	769.5	671.6	653.9	647.3	649.4	656.1	660.6
25°	7557.4	6151.8	3131.5	1051.9	662.7	611.7	591.6	580.5	571.5	571.5	576.1
27.5°	7450.6	5884.8	2524.3	765.1	596.0	556.0	524.9	507.1	487.1	476.0	480.4
30°	7372.9	5631.3	1954.9	625.0	533.7	493.8	453.8	424.8	395.8	382.5	387.0
32.5°	7343.9	5426.7	1461.3	551.5	478.2	433.6	384.8	347.0	315.9	304.8	306.9
35°	7421.7	5264.3	1069.7	498.2	433.6	378.0	322.6	280.2	255.7	249.1	251.3
37.5°	7626.3	5177.6	800.7	453.8	393.7	331.4	269.1	229.1	213.5	213.5	215.8
40°	8013.3	5175.4	642.8	422.7	358.1	287.0	222.5	193.5	184.6	189.0	191.3
42.5°	8578.2	5293.3	560.5	393.7	326.9	244.6	184.6	164.6	162.4	166.8	169.1
45°	9350.0	5509.0	516.0	369.2	293.6	204.7	155.7	142.4	142.4	149.0	151.3
47.5°	10295.2	5824.8	478.2	344.7	260.2	171.2	133.4	124.5	126.7	133.4	135.7
50°	11433.9	6223.0	440.4	318.1	235.8	142.4	115.7	108.9	111.2	120.0	122.4
52.5°	12730.6	6758.9	409.1	293.6	204.7	117.9	97.9	93.4	97.9	106.7	108.9
55°	13842.6	7239.3	371.4	273.5	164.6	97.9	80.1	80.1	84.5	95.6	97.9
57.5°	14912.4	7742.0	338.0	235.8	129.0	77.8	66.7	69.0	75.6	86.8	88.9
60°	16482.6	8593.8	298.1	198.0	97.9	62.3	55.6	57.8	66.7	77.8	80.1
62.5°	19149.3	9890.3	258.0	164.6	75.6	48.9	44.5	48.9	60.1	73.4	75.6
65°	21555.6	10417.6	211.3	137.8	57.8	37.8	37.8	44.5	57.8	71.1	73.4
67.5°	20214.5	8769.4	164.6	108.9	44.5	29.0	31.1	42.3	55.6	71.1	73.4
69°	17877.0	7170.3	140.1	86.8	37.8	26.7	29.0	42.3	55.6	69.0	71.1
70°	16055.5	6053.9	124.5	73.4	33.4	26.7	29.0	40.0	55.6	69.0	71.1
72.5°	10753.3	3269.4	100.1	53.4	31.1	24.5	24.5	40.0	53.4	66.7	69.0
75°	4621.5	902.9	80.1	37.8	26.7	22.3	22.3	37.8	51.2	64.5	69.0
77.5°	845.1	229.1	64.5	33.4	26.7	22.3	20.0	35.6	48.9	62.3	64.5
80°	335.9	113.4	51.2	29.0	24.5	20.0	17.8	33.4	46.7	60.1	62.3
82.5°	202.3	64.5	42.3	26.7	24.5	17.8	15.6	29.0	44.5	57.8	60.1
85°	164.6	44.5	33.4	26.7	22.3	17.8	13.3	26.7	40.0	55.6	57.8
87.5°	80.1	31.1	31.1	24.5	22.3	17.8	13.3	24.5	37.8	53.4	55.6
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)