

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: P194551

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7060-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL4-7060-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14749 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 166
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



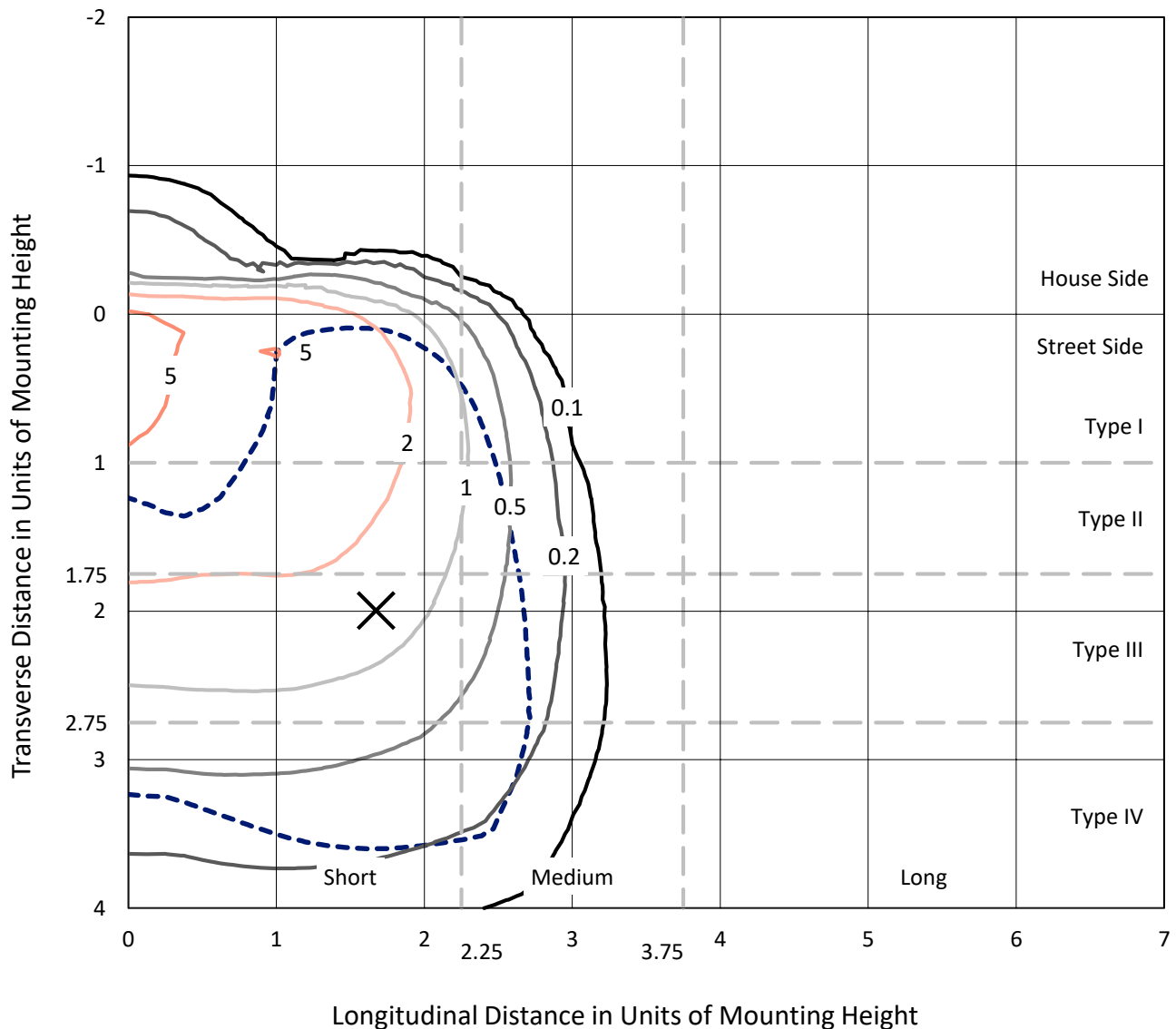
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

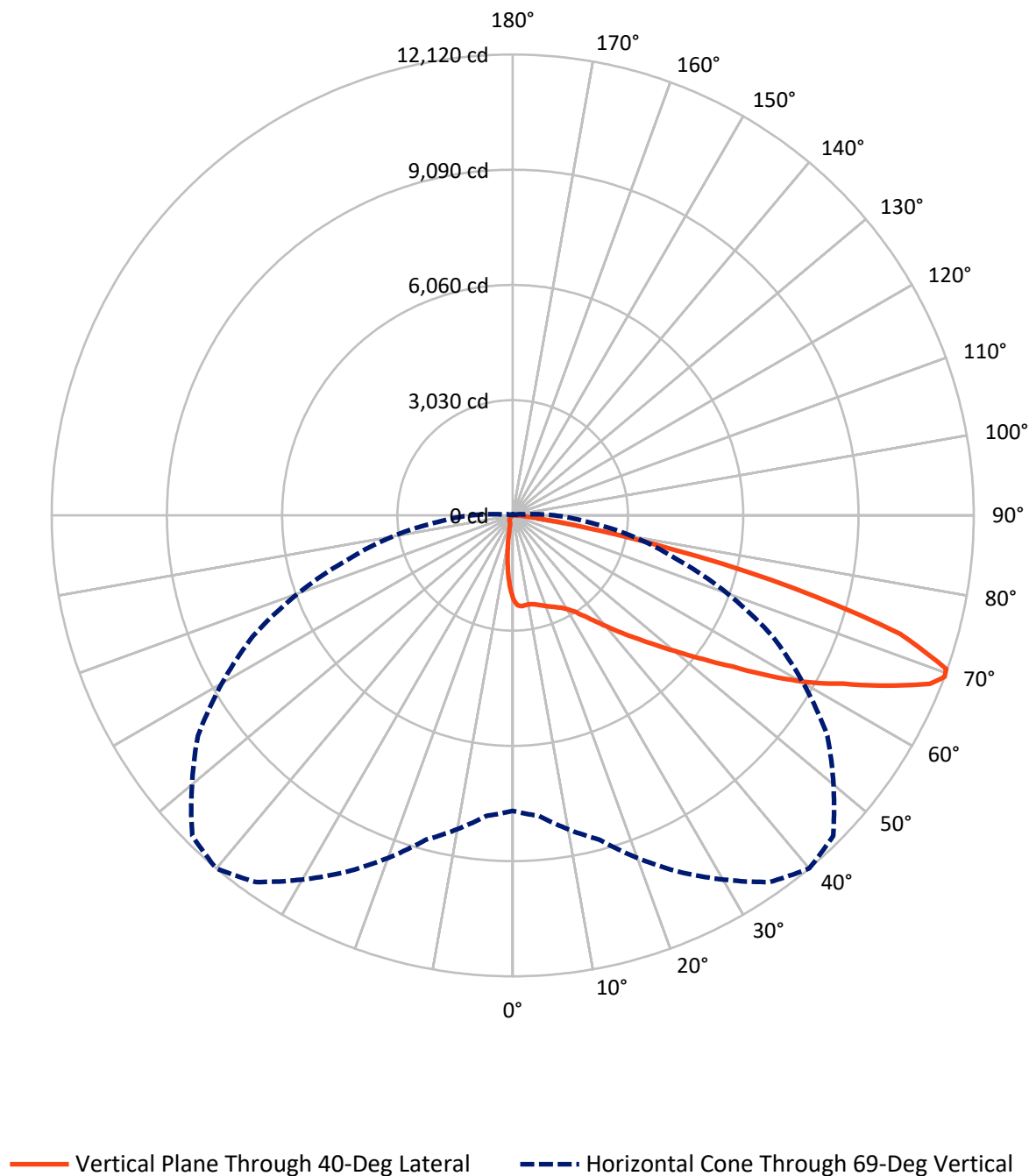


Based on 20 foot mounting height. Maximum calculated value = 6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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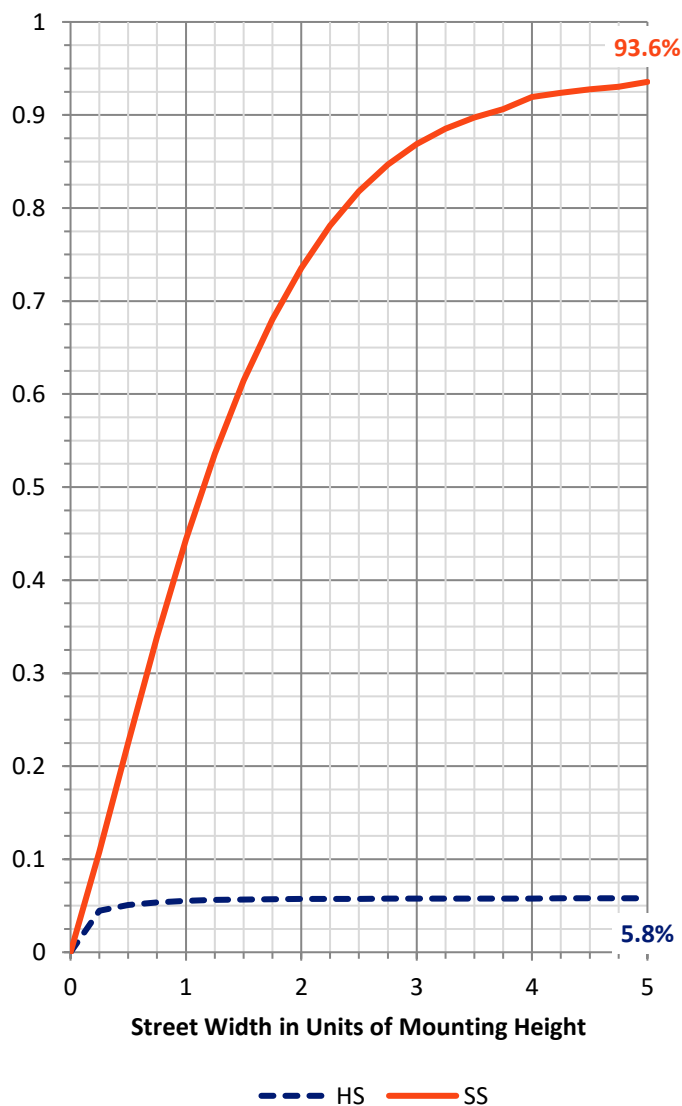
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	862.9	0.0	862.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	13886.1	0.0	13886.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	14749.0	0.0	14749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	1.2
10°-20°	439.4	3.0
20°-30°	740.1	5.0
30°-40°	1211.5	8.2
40°-50°	2097.7	14.2
50°-60°	3304.0	22.4
60°-70°	4314.9	29.3
70°-80°	2222.4	15.1
80°-90°	240.4	1.6
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°	14749.0	100.0
0°-180°	14749.0	100.0

Coefficient of Utilization



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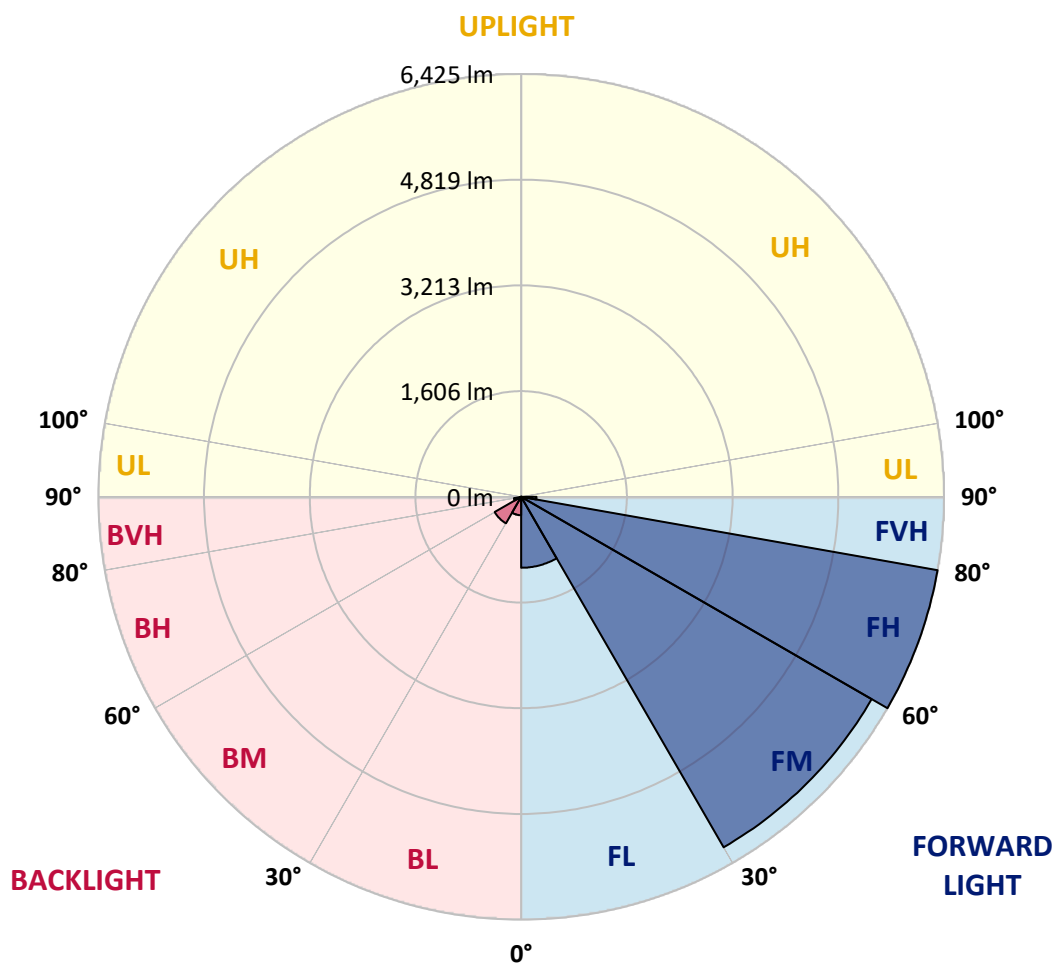
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1078.6	7.3			
FM	(30°-60°)	6149.4	41.7			
FH	(60°-80°)	6425.3	43.6			G3/7500
FVH	(80°-90°)	232.8	1.6			G3/500
BL	(0°-30°)	279.5	1.9	B1/500		
BM	(30°-60°)	463.8	3.1	B1/1000		
BH	(60°-80°)	112.0	0.8	B1/500		G1/500
BVH	(80°-90°)	7.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2203.6	2203.6	2203.6	2203.6	2203.6	2203.6	2203.6	2203.6	2203.6	2203.6	2203.6
2.5°	2419.5	2406.4	2398.5	2387.9	2374.8	2363.4	2359.0	2326.5	2295.8	2253.6	2205.3
5°	2464.3	2459.9	2445.9	2431.8	2416.0	2398.5	2388.8	2350.2	2306.3	2244.8	2160.6
7.5°	2468.7	2463.4	2445.9	2426.6	2404.6	2383.5	2366.9	2328.2	2287.9	2225.5	2122.8
10°	2461.7	2455.5	2442.4	2421.3	2394.1	2373.9	2357.2	2320.3	2286.1	2229.9	2115.8
12.5°	2453.8	2447.6	2441.5	2431.0	2407.3	2393.2	2379.2	2344.0	2313.3	2265.9	2141.2
15°	2461.7	2458.2	2465.2	2460.8	2447.6	2435.3	2421.3	2389.7	2361.6	2322.1	2187.8
17.5°	2495.0	2495.0	2517.0	2519.6	2507.3	2489.8	2469.6	2438.0	2414.3	2380.9	2243.1
20°	2573.2	2570.5	2598.6	2603.9	2574.1	2546.8	2517.0	2478.4	2459.9	2438.9	2297.5
22.5°	2707.5	2695.2	2711.9	2706.6	2647.8	2605.7	2568.8	2521.4	2511.7	2502.1	2358.1
25°	2882.2	2875.2	2886.6	2834.8	2731.2	2674.1	2630.2	2576.7	2576.7	2586.3	2426.6
27.5°	3135.9	3109.6	3071.0	2979.7	2824.3	2751.4	2704.0	2646.9	2661.9	2697.8	2517.0
30°	3395.8	3366.8	3278.1	3137.7	2937.5	2861.1	2805.8	2746.1	2781.2	2847.1	2638.1
32.5°	3652.1	3619.7	3494.1	3316.8	3099.9	3023.6	2970.0	2904.2	2963.0	3073.6	2815.5
35°	3900.6	3871.6	3726.8	3517.8	3315.9	3252.7	3203.5	3146.5	3222.0	3376.5	3065.7
37.5°	4179.8	4148.2	3971.7	3745.2	3578.4	3532.7	3496.8	3439.7	3571.4	3797.9	3414.2
40°	4523.0	4469.5	4231.6	4005.9	3882.2	3860.2	3835.6	3827.7	4032.3	4345.7	3878.6
42.5°	4916.3	4828.6	4503.7	4280.7	4215.8	4231.6	4225.4	4260.5	4609.1	5027.0	4444.0
45°	5309.7	5196.4	4806.6	4574.0	4582.7	4638.0	4672.3	4812.8	5331.6	5808.3	5052.4
47.5°	5643.3	5531.8	5097.2	4890.9	4996.2	5105.1	5198.2	5464.2	6074.3	6577.4	5525.6
50°	5928.6	5823.2	5405.3	5239.4	5476.5	5652.0	5803.0	6197.2	6873.2	7162.9	5857.5
52.5°	6162.1	6091.9	5724.9	5638.9	6025.2	6282.4	6503.6	6975.9	7580.8	7638.8	6115.6
55°	6389.5	6339.5	6068.2	6113.8	6669.5	7019.8	7299.9	7802.1	8190.1	8035.6	6363.2
57.5°	6651.1	6605.5	6459.7	6716.1	7516.7	7957.5	8263.0	8534.2	8726.5	8441.2	6596.7
60°	6918.0	6891.7	6895.2	7385.1	8489.5	8912.6	9081.2	9151.4	9253.3	8823.1	6609.9
62.5°	7172.6	7222.6	7393.0	8129.5	9420.9	9745.8	9830.9	9900.3	9780.9	8883.7	6106.8
65°	7603.7	7685.3	8091.8	9126.0	10445.5	10793.1	10880.9	10643.0	9864.3	8100.6	4967.3
67.5°	7814.4	7963.6	8688.8	10054.8	11439.3	11825.6	11793.1	10691.3	8852.1	6177.0	3187.7
69°	7770.5	7929.4	8826.6	10339.3	11769.4	12119.7	11913.4	10100.5	7541.3	4474.8	1956.9
70°	7596.6	7757.3	8755.5	10328.7	11811.5	12088.9	11690.4	9370.9	6376.3	3272.0	1223.8
72.5°	6343.8	6482.6	7773.1	9335.8	10880.9	10655.3	9780.0	6492.2	3107.0	891.1	275.7
75°	3905.0	3982.2	5577.4	7033.0	8218.2	7638.8	6515.9	3229.9	926.2	252.0	152.8
77.5°	2063.1	2098.2	3053.4	4145.5	5209.6	4310.6	3339.6	1259.8	426.7	158.0	110.6
80°	1219.4	1245.8	1644.3	1895.4	2254.5	1883.1	1335.3	773.4	305.5	99.2	98.3
82.5°	697.9	714.6	1192.2	1053.5	888.5	758.5	664.6	733.1	183.5	66.7	101.8
85°	256.4	259.9	670.7	801.5	528.5	314.3	330.1	607.5	49.2	42.1	79.9
87.5°	119.4	116.8	345.0	490.8	309.0	199.3	257.2	133.4	19.3	27.2	21.9
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°	2203.6	2203.6	2203.6	2203.6	2203.6	2203.6	2203.6	2203.6	2203.6	2203.6	2203.6
2.5°	2177.2	2144.8	2085.9	2025.4	1963.9	1916.5	1870.0	1833.1	1820.8	1798.0	1799.7
5°	2110.5	2050.8	1927.9	1803.2	1673.3	1566.2	1465.2	1383.6	1344.1	1303.7	1303.7
7.5°	2052.6	1965.7	1773.4	1570.6	1360.8	1184.3	1025.4	906.0	840.2	787.5	786.6
10°	2030.6	1913.0	1644.3	1353.8	1061.4	820.9	632.1	510.9	448.6	408.2	406.5
12.5°	2040.3	1894.5	1545.1	1153.6	786.6	527.6	366.1	288.0	261.6	249.3	249.3
15°	2068.4	1889.3	1445.9	957.8	555.7	330.1	243.2	222.1	220.4	220.4	220.4
17.5°	2102.6	1891.0	1344.1	767.3	378.4	236.2	209.8	207.2	208.9	208.9	208.9
20°	2137.7	1891.9	1234.4	590.8	266.9	205.4	197.5	196.7	198.4	198.4	199.3
22.5°	2180.8	1896.3	1124.6	441.6	220.4	194.0	187.9	187.9	188.8	188.8	187.9
25°	2229.9	1905.1	1010.5	327.5	201.0	186.1	180.9	180.0	180.9	180.0	179.1
27.5°	2291.4	1917.4	883.2	256.4	192.3	178.2	173.8	173.8	173.0	172.1	171.2
30°	2368.6	1931.4	740.1	217.7	183.5	171.2	166.8	165.9	165.0	163.3	163.3
32.5°	2486.3	1962.1	598.7	197.5	173.8	161.5	158.0	158.0	156.3	154.5	153.6
35°	2667.1	2022.7	472.3	185.2	163.3	151.0	146.6	146.6	144.9	144.0	143.1
37.5°	2917.3	2114.9	367.0	173.8	152.8	139.6	135.2	134.3	132.6	130.8	129.9
40°	3250.1	2229.0	288.8	163.3	142.2	128.2	124.7	122.9	119.4	116.8	116.8
42.5°	3667.9	2359.0	234.4	151.9	129.9	117.6	115.0	112.4	106.2	103.6	102.7
45°	4105.1	2475.7	198.4	138.7	117.6	107.1	105.4	101.0	93.1	90.4	90.4
47.5°	4420.3	2502.9	174.7	126.4	106.2	95.7	94.8	86.9	79.9	78.1	77.3
50°	4617.0	2449.4	155.4	114.1	95.7	85.2	82.5	72.9	68.5	66.7	65.8
52.5°	4749.5	2353.7	139.6	103.6	86.0	75.5	69.4	62.3	58.8	57.1	57.1
55°	4855.8	2218.5	123.8	93.9	78.1	67.6	58.8	53.6	50.0	48.3	48.3
57.5°	4885.6	2035.0	108.0	86.0	70.2	59.7	50.0	46.5	42.1	41.3	41.3
60°	4668.8	1704.0	95.7	76.4	63.2	51.8	43.9	39.5	35.1	34.2	33.4
62.5°	4097.2	1318.6	84.3	67.6	55.3	44.8	37.8	32.5	29.0	29.0	29.0
65°	3125.4	884.1	73.7	58.8	48.3	37.8	32.5	26.3	24.6	24.6	25.5
67.5°	1870.8	481.1	63.2	50.0	41.3	31.6	27.2	22.8	21.9	22.8	22.8
69°	1096.5	282.7	57.1	44.8	36.0	28.1	23.7	20.2	21.9	22.8	22.8
70°	676.9	190.5	52.7	40.4	32.5	25.5	21.9	19.3	21.1	21.9	21.9
72.5°	188.8	98.3	42.1	31.6	26.3	21.1	17.6	17.6	20.2	21.1	21.1
75°	122.9	72.9	32.5	23.7	20.2	16.7	14.9	16.7	19.3	20.2	20.2
77.5°	101.8	59.7	26.3	19.3	16.7	15.8	14.0	14.9	17.6	18.4	18.4
80°	93.1	42.1	21.1	17.6	14.9	14.0	13.2	12.3	15.8	16.7	16.7
82.5°	88.7	33.4	18.4	15.8	14.0	12.3	11.4	12.3	14.0	14.9	15.8
85°	55.3	21.9	16.7	14.9	12.3	11.4	11.4	11.4	13.2	14.0	14.0
87.5°	20.2	17.6	14.9	12.3	10.5	10.5	10.5	10.5	11.4	13.2	13.2
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)