

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: P192880

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192880
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-02-LED-E1-SL3-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 11039.6 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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

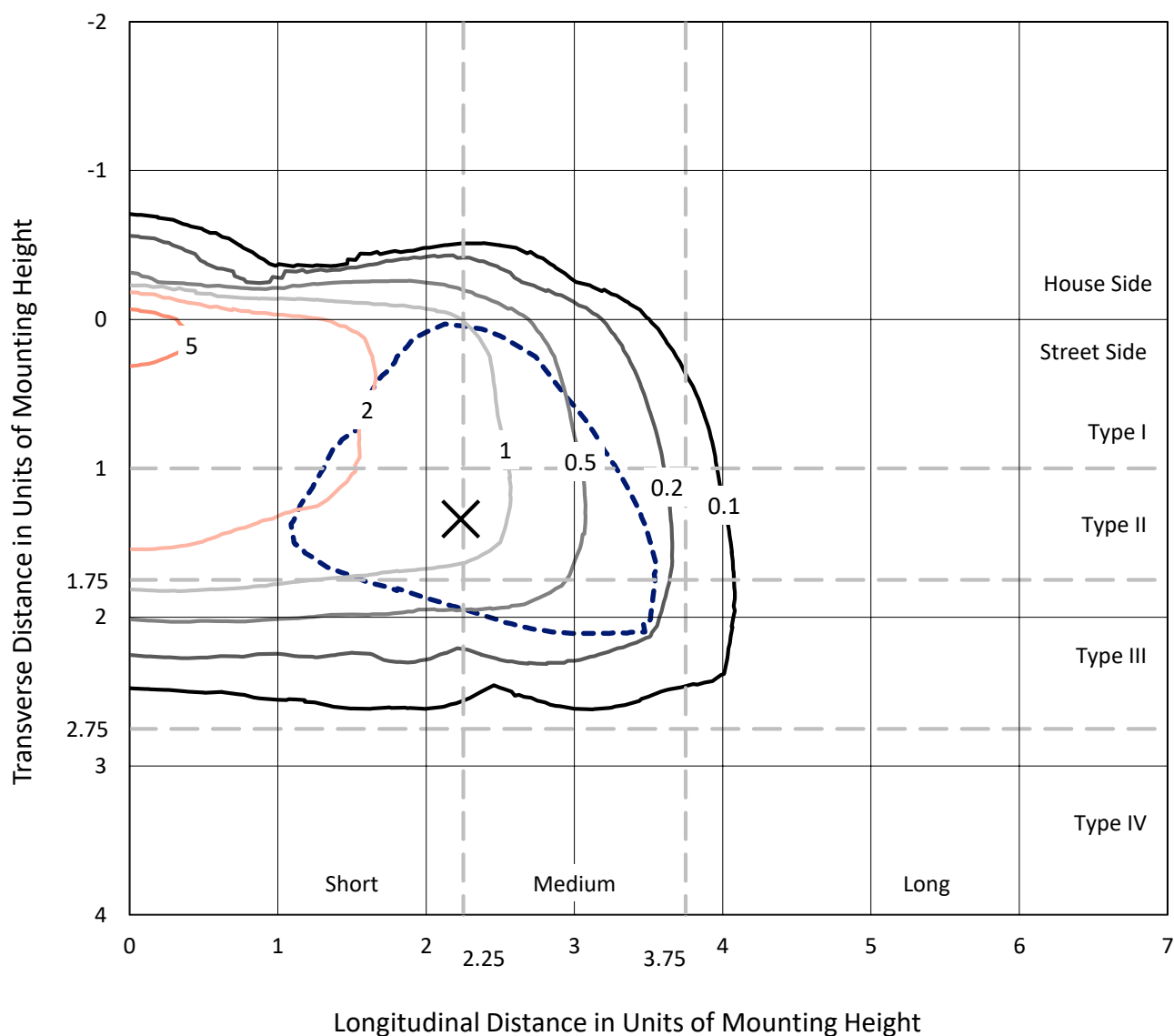


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

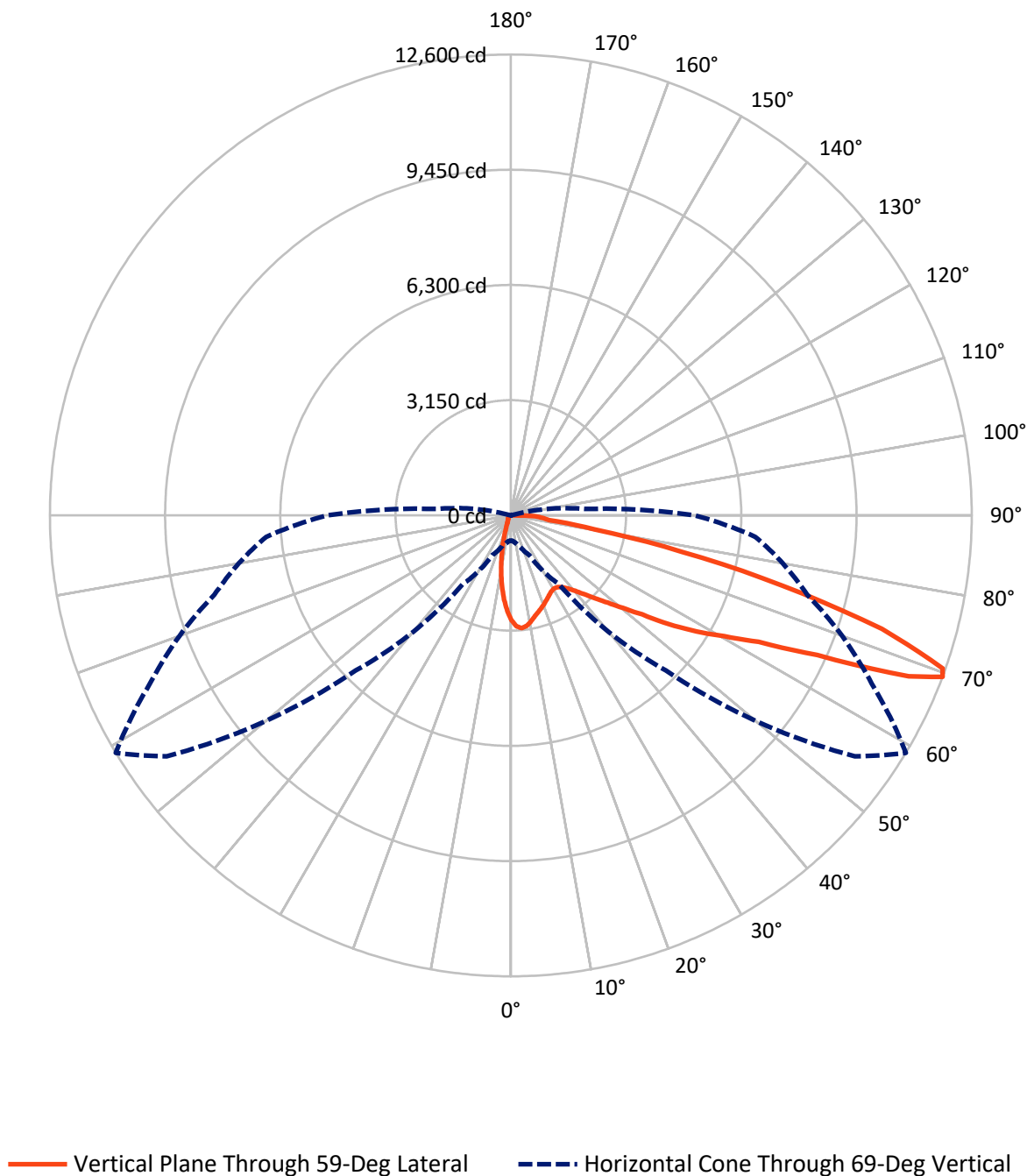


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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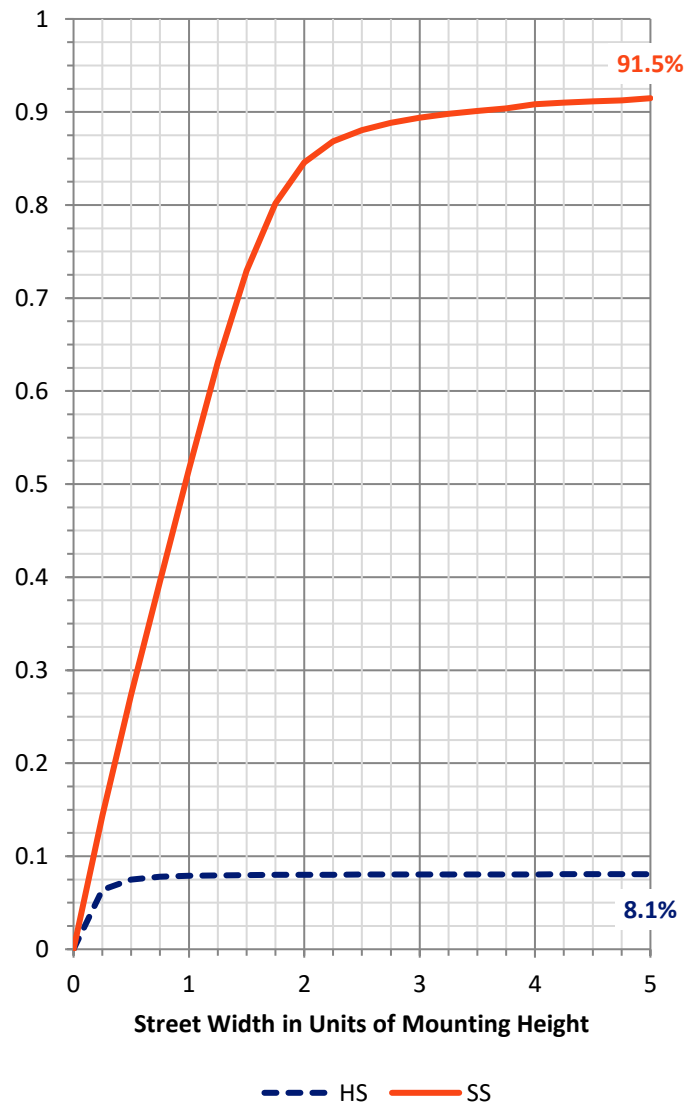
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	899.0	0.0	899.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	10140.5	0.0	10140.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	11039.6	0.0	11039.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	2.1
10°-20°	481.9	4.4
20°-30°	648.5	5.9
30°-40°	941.6	8.5
40°-50°	1567.8	14.2
50°-60°	2445.8	22.2
60°-70°	3026.4	27.4
70°-80°	1533.8	13.9
80°-90°	160.5	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°	11039.6	100.0
0°-180°	11039.6	100.0

Coefficient of Utilization



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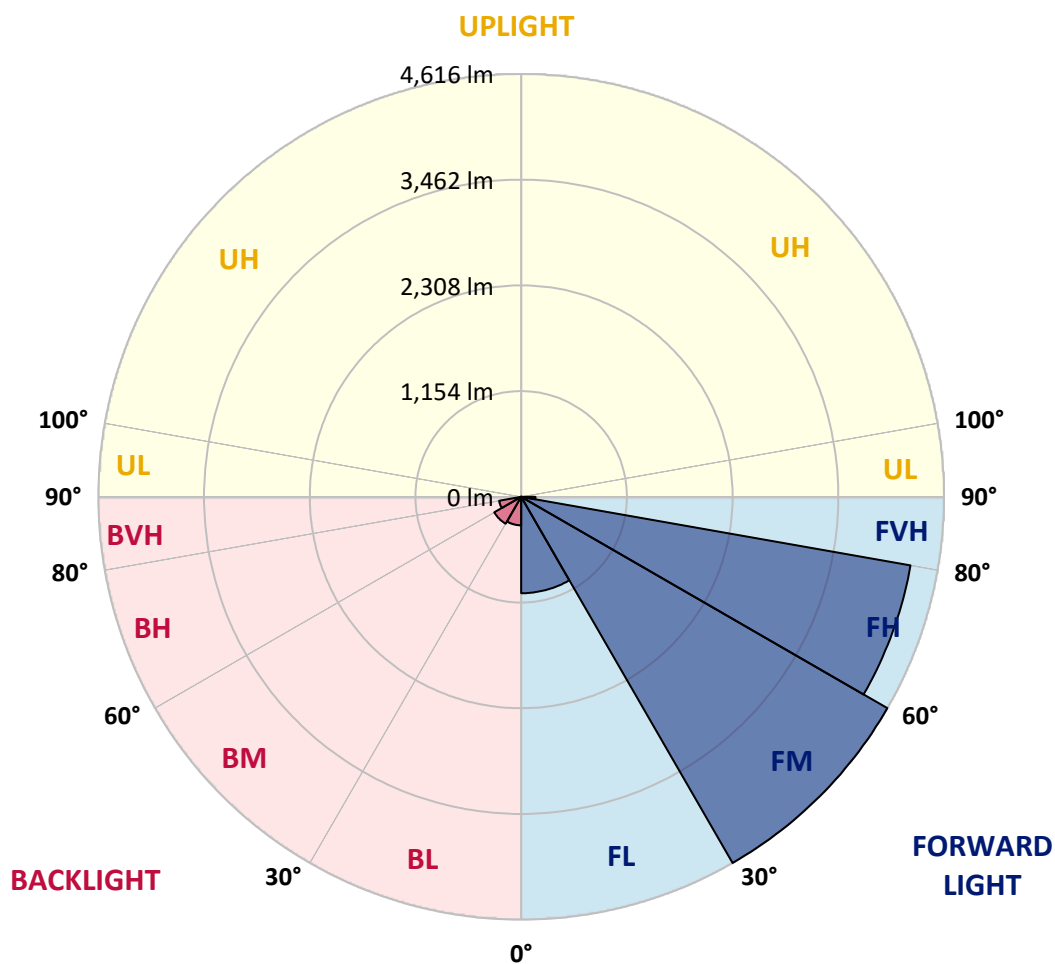
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1052.5	9.5			
FM	(30°-60°)	4616.4	41.8			
FH	(60°-80°)	4316.1	39.1			G2/5000
FVH	(80°-90°)	155.5	1.4			G2/225
BL	(0°-30°)	311.2	2.8	B1/500		
BM	(30°-60°)	338.8	3.1	B1/1000		
BH	(60°-80°)	244.2	2.2	B1/500		G1/500
BVH	(80°-90°)	4.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4
2.5°	3149.4	3148.1	3134.4	3128.1	3116.9	3093.1	3056.3	3037.0	3005.8	2951.5	2878.4
5°	3120.7	3135.6	3143.7	3144.4	3152.4	3143.7	3110.6	3094.4	3051.4	2963.9	2832.9
7.5°	2925.9	2931.5	2954.6	2974.6	3013.3	3050.1	3062.0	3055.1	3029.5	2935.9	2761.7
10°	2717.4	2723.0	2750.5	2776.8	2829.2	2886.0	2945.8	2958.3	2968.9	2895.9	2693.0
12.5°	2537.5	2543.2	2571.3	2605.7	2666.8	2736.7	2829.7	2850.3	2897.1	2857.7	2638.1
15°	2382.7	2385.2	2412.8	2455.2	2528.3	2618.1	2723.7	2756.7	2828.5	2831.0	2590.0
17.5°	2251.1	2257.3	2274.1	2314.7	2394.6	2505.8	2628.8	2676.2	2760.4	2808.5	2543.2
20°	2170.6	2176.8	2176.1	2198.7	2270.4	2389.1	2533.8	2590.6	2693.0	2785.4	2501.4
22.5°	2154.9	2154.9	2138.8	2135.6	2178.0	2277.3	2435.2	2504.5	2632.5	2775.4	2472.1
25°	2210.6	2208.0	2167.3	2134.4	2136.2	2195.4	2339.7	2422.1	2581.2	2782.3	2456.4
27.5°	2327.9	2324.7	2273.5	2210.6	2159.9	2159.3	2267.2	2355.9	2540.8	2814.7	2462.7
30°	2490.1	2488.9	2433.3	2354.1	2262.3	2178.0	2242.3	2322.9	2514.5	2873.4	2477.0
32.5°	2667.4	2665.6	2623.8	2540.1	2424.0	2262.3	2268.5	2336.0	2522.0	2951.5	2512.0
35°	2855.4	2852.2	2834.0	2761.1	2633.1	2417.7	2354.6	2407.1	2569.4	3068.2	2580.7
37.5°	3058.8	3062.0	3075.1	3005.1	2870.9	2635.6	2498.9	2534.5	2665.0	3226.8	2692.3
40°	3359.0	3358.5	3362.9	3271.1	3141.9	2902.2	2700.6	2711.9	2824.8	3437.2	2862.1
42.5°	3904.1	3866.0	3750.6	3563.3	3433.4	3206.8	2954.6	2942.8	3020.2	3697.5	3100.0
45°	4636.3	4555.2	4255.5	3896.6	3730.5	3550.2	3267.4	3229.2	3278.6	4010.3	3393.5
47.5°	5266.2	5181.9	4758.0	4243.6	4045.8	3876.0	3633.8	3565.1	3581.3	4360.4	3765.5
50°	5480.3	5439.2	5069.0	4545.8	4351.0	4286.1	4058.9	3975.3	3952.1	4765.6	4196.8
52.5°	5406.0	5402.9	5156.4	4741.9	4630.7	4710.6	4594.0	4497.1	4412.2	5192.5	4635.8
55°	5286.8	5302.5	5191.9	4913.5	4909.8	5098.2	5325.6	5245.0	4999.0	5656.4	5014.0
57.5°	4957.8	5024.7	5171.9	5238.1	5391.7	5584.6	5934.8	5982.3	5691.4	6011.6	5328.0
60°	4022.7	4169.5	4651.2	5285.0	6012.9	6493.5	6670.2	6710.7	6259.4	6306.9	5751.9
62.5°	2855.4	3005.1	3616.3	4688.2	6022.2	7687.7	7765.7	7606.5	6884.9	6744.5	6482.9
65°	1515.7	1631.1	2130.5	3384.1	5221.3	7964.9	9681.6	9207.2	7988.6	7605.3	7427.3
67.5°	775.3	810.2	1008.8	1656.2	3589.5	7074.6	11398.9	11733.0	9890.7	8459.3	7381.8
69°	686.0	706.7	838.3	1197.4	2298.5	5992.3	11482.5	12600.0	10886.4	8388.2	6708.2
70°	664.2	682.4	802.2	1083.8	1796.5	5025.3	11162.3	12523.9	11141.0	8117.2	6205.1
72.5°	563.7	579.3	714.1	957.6	1460.1	2494.5	9067.3	10612.4	9997.4	6761.9	4491.5
75°	377.1	428.2	685.4	897.7	1358.4	1417.1	5977.9	7669.0	7124.0	4560.8	2339.7
77.5°	90.4	97.4	193.5	714.1	1242.3	1247.3	3074.4	4767.4	3888.4	1625.6	553.1
80°	48.7	46.9	54.3	141.7	1156.7	1170.5	1384.0	2314.1	1388.3	269.7	182.3
82.5°	34.3	32.4	35.0	59.3	364.0	1066.3	1001.3	1047.5	575.6	103.6	81.7
85°	12.4	11.9	19.3	53.6	114.2	613.1	1028.7	864.0	466.3	47.4	59.9
87.5°	4.4	3.8	7.5	29.4	35.0	260.9	634.9	653.0	183.5	28.7	28.1
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°	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4	2873.4
2.5°	2847.9	2809.2	2737.9	2665.0	2597.5	2516.3	2475.9	2435.8	2419.0	2412.8	2383.4
5°	2765.5	2699.9	2548.8	2397.1	2257.3	2108.7	2010.7	1932.0	1886.0	1863.4	1827.8
7.5°	2659.9	2552.7	2323.5	2089.4	1871.5	1656.8	1497.6	1375.2	1291.0	1250.4	1213.6
10°	2557.5	2414.6	2088.7	1769.8	1473.9	1189.2	969.4	810.2	708.5	661.7	631.7
12.5°	2465.8	2280.3	1862.1	1458.3	1086.8	753.5	530.0	403.2	340.3	318.4	307.8
15°	2384.0	2156.8	1648.0	1162.4	736.0	430.7	289.6	246.6	236.5	236.5	235.4
17.5°	2306.6	2035.7	1441.4	884.6	461.9	263.5	220.3	214.7	214.7	217.2	217.2
20°	2232.3	1920.2	1241.6	634.9	290.8	209.1	199.2	197.9	199.2	202.2	202.2
22.5°	2168.7	1815.4	1055.0	435.7	216.0	188.5	183.5	181.7	182.3	184.1	185.4
25°	2121.3	1726.8	879.0	295.2	186.1	171.6	166.1	162.9	160.4	160.4	161.7
27.5°	2091.2	1651.8	708.5	214.7	167.2	156.0	147.3	142.4	136.7	133.7	134.8
30°	2069.4	1580.7	548.7	175.4	149.8	138.5	127.4	119.2	111.1	107.4	108.6
32.5°	2061.2	1523.2	410.2	154.8	134.2	121.8	107.9	97.4	88.6	85.5	86.1
35°	2083.1	1477.6	300.3	139.9	121.8	106.1	90.4	78.6	71.8	69.9	70.6
37.5°	2140.6	1453.2	224.7	127.4	110.5	93.0	75.5	64.3	59.9	59.9	60.5
40°	2249.2	1452.6	180.4	118.6	100.5	80.6	62.4	54.3	51.8	53.1	53.6
42.5°	2407.7	1485.7	157.4	110.5	91.8	68.7	51.8	46.2	45.6	46.9	47.4
45°	2624.4	1546.2	144.9	103.6	82.4	57.5	43.7	40.0	40.0	41.8	42.5
47.5°	2889.7	1634.9	134.2	96.8	72.9	48.1	37.4	35.0	35.6	37.4	38.1
50°	3209.3	1746.6	123.6	89.3	66.2	40.0	32.4	30.6	31.2	33.8	34.3
52.5°	3573.3	1897.1	114.8	82.4	57.5	33.1	27.5	26.2	27.5	29.9	30.6
55°	3885.4	2031.9	104.3	76.8	46.2	27.5	22.5	22.5	23.7	26.9	27.5
57.5°	4185.6	2173.0	94.8	66.2	36.2	21.9	18.7	19.3	21.2	24.4	25.0
60°	4626.4	2412.1	83.7	55.6	27.5	17.5	15.7	16.3	18.7	21.9	22.5
62.5°	5374.8	2776.1	72.4	46.2	21.2	13.7	12.4	13.7	16.8	20.6	21.2
65°	6050.2	2924.0	59.3	38.7	16.3	10.6	10.6	12.4	16.3	20.0	20.6
67.5°	5673.9	2461.4	46.2	30.6	12.4	8.0	8.7	11.9	15.7	20.0	20.6
69°	5017.7	2012.5	39.4	24.4	10.6	7.5	8.0	11.9	15.7	19.3	20.0
70°	4506.5	1699.2	35.0	20.6	9.4	7.5	8.0	11.3	15.7	19.3	20.0
72.5°	3018.3	917.7	28.1	15.0	8.7	6.9	6.9	11.3	15.0	18.7	19.3
75°	1297.2	253.5	22.5	10.6	7.5	6.2	6.2	10.6	14.3	18.1	19.3
77.5°	237.2	64.3	18.1	9.4	7.5	6.2	5.6	10.0	13.7	17.5	18.1
80°	94.3	31.8	14.3	8.0	6.9	5.6	5.0	9.4	13.1	16.8	17.5
82.5°	56.9	18.1	11.9	7.5	6.9	5.0	4.4	8.0	12.4	16.3	16.8
85°	46.2	12.4	9.4	7.5	6.2	5.0	3.8	7.5	11.3	15.7	16.3
87.5°	22.5	8.7	8.7	6.9	6.2	5.0	3.8	6.9	10.6	15.0	15.7
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)