

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: P191140

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191140  
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-SL3-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 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: 11676 lumens  
Efficiency: N/A  
Efficacy: 90.5 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

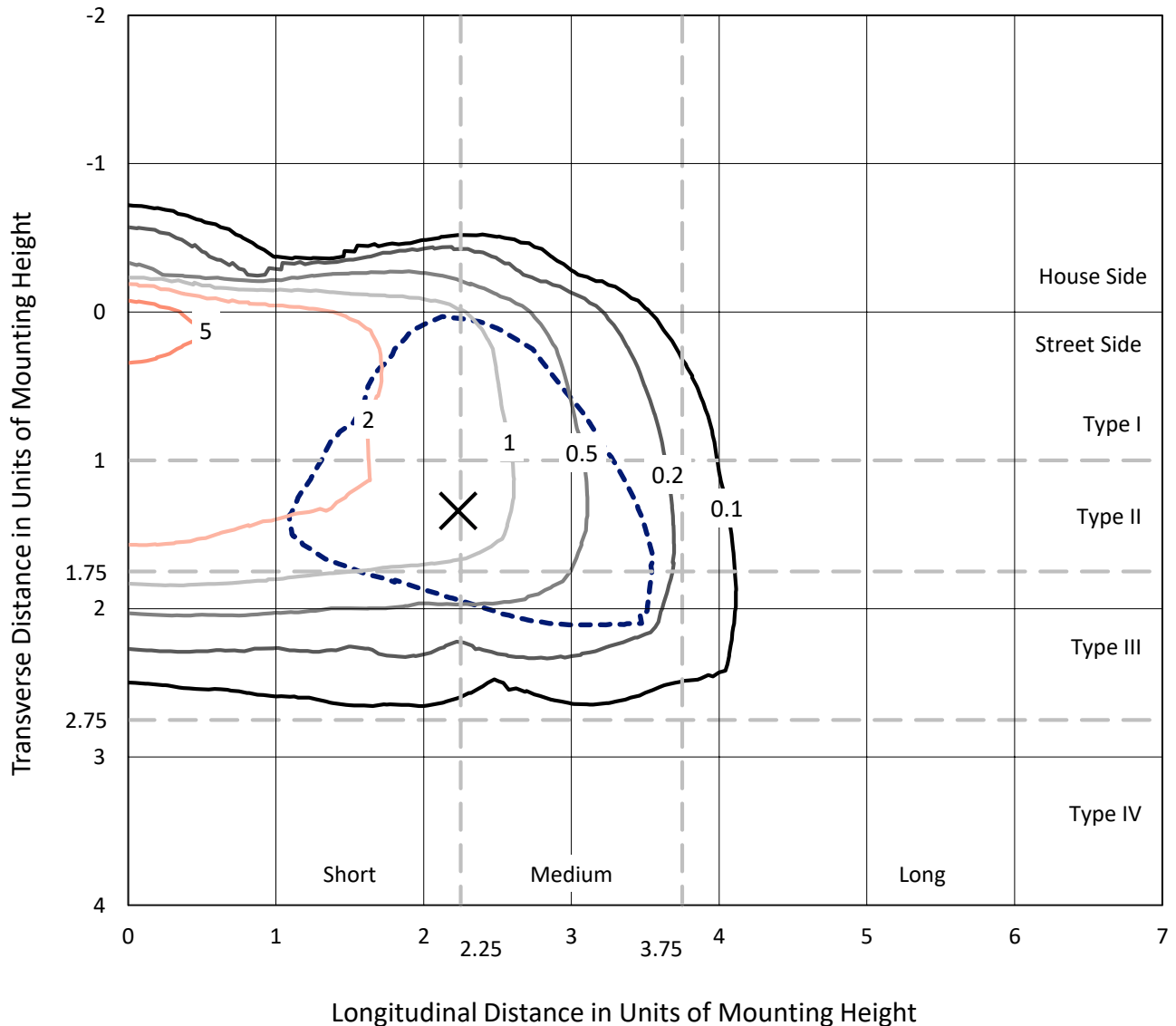


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### Iso-Footcandle Lines of Horizontal Illumination

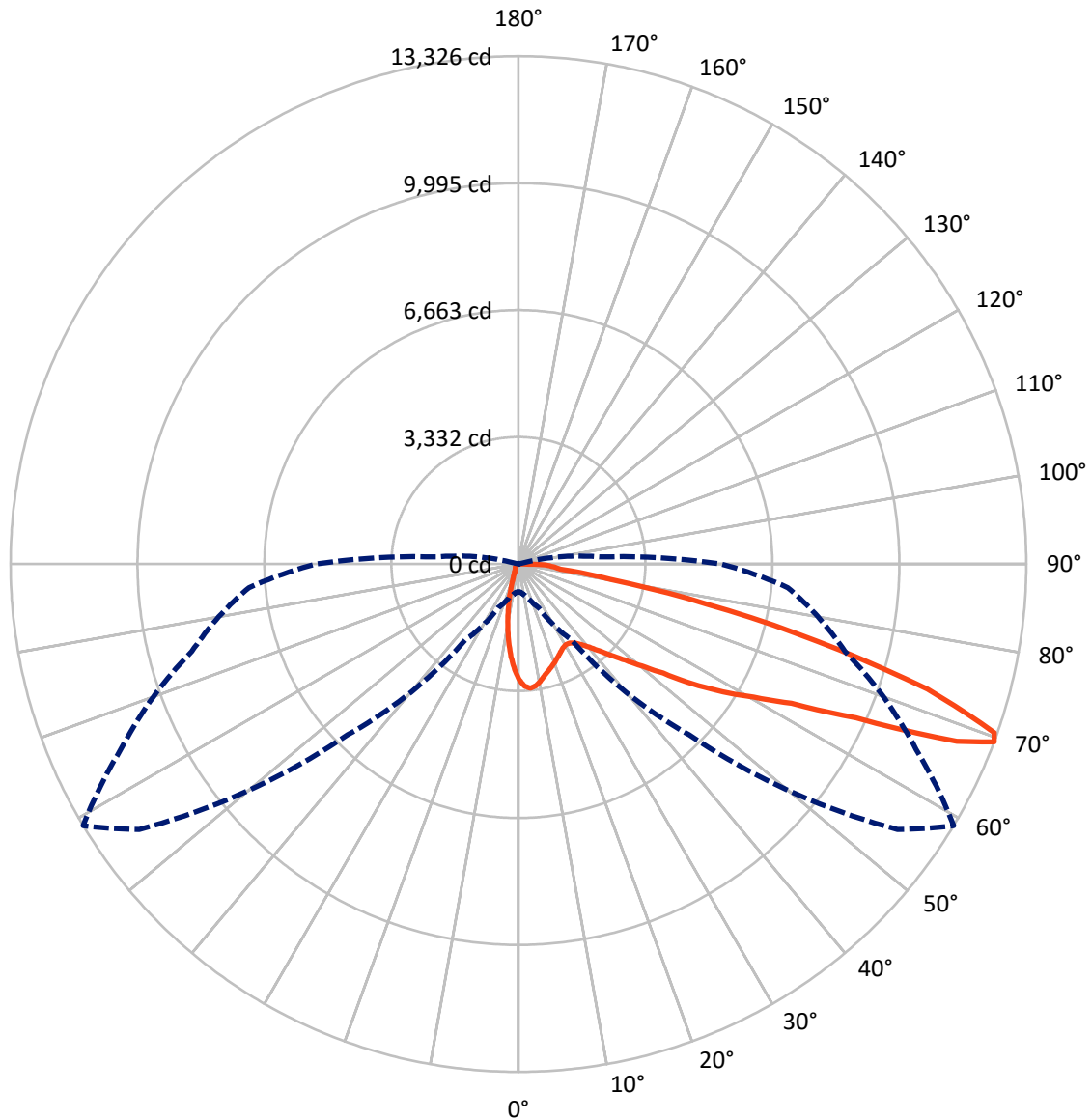
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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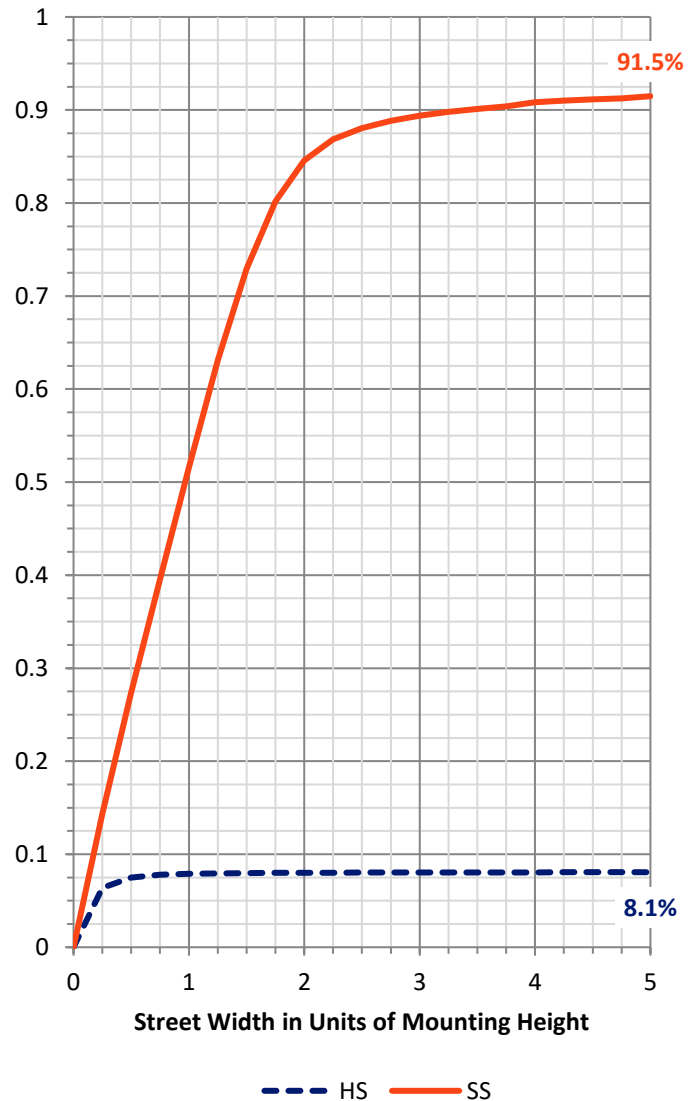
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	950.9	0.0	950.9
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	10725.1	0.0	10725.1
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	11676.0	0.0	11676.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.7	2.1
10°-20°	509.7	4.4
20°-30°	685.9	5.9
30°-40°	995.9	8.5
40°-50°	1658.2	14.2
50°-60°	2586.8	22.2
60°-70°	3200.9	27.4
70°-80°	1622.2	13.9
80°-90°	169.7	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°	11676.0	100.0
0°-180°	11676.0	100.0

**Coefficient of Utilization**



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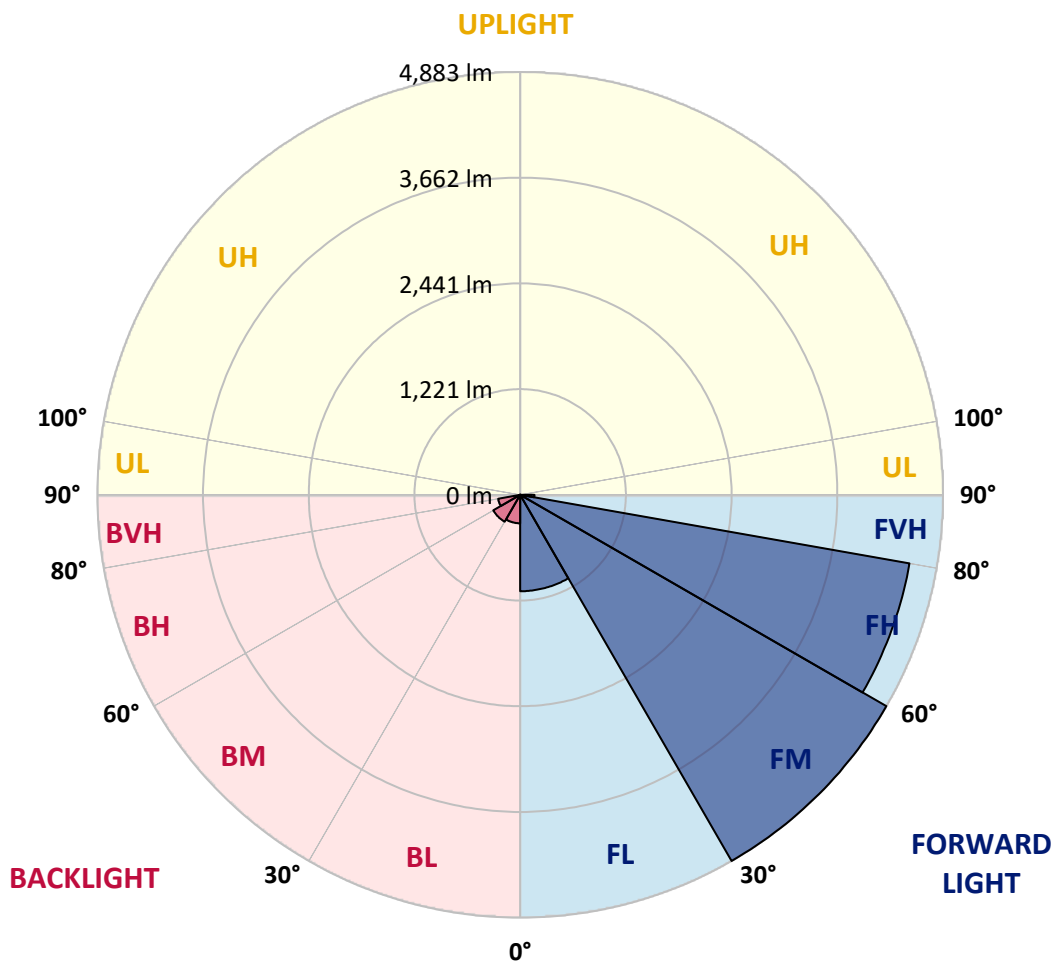
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1113.2	9.5			
FM	(30°-60°)	4882.5	41.8			
FH	(60°-80°)	4564.9	39.1			G2/5000
FVH	(80°-90°)	164.5	1.4			G2/225
BL	(0°-30°)	329.1	2.8	B1/500		
BM	(30°-60°)	358.3	3.1	B1/1000		
BH	(60°-80°)	258.2	2.2	B1/500		G1/500
BVH	(80°-90°)	5.2	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°	3039.1	3039.1	3039.1	3039.1	3039.1	3039.1	3039.1	3039.1	3039.1	3039.1	3039.1
2.5°	3330.9	3329.6	3315.1	3308.4	3296.6	3271.5	3232.5	3212.1	3179.0	3121.6	3044.4
5°	3300.6	3316.4	3325.0	3325.6	3334.2	3325.0	3290.0	3272.8	3227.3	3134.8	2996.2
7.5°	3094.5	3100.5	3124.9	3146.1	3187.0	3226.0	3238.5	3231.2	3204.2	3105.1	2920.9
10°	2874.0	2880.0	2909.1	2936.8	2992.2	3052.3	3115.7	3128.9	3140.2	3062.8	2848.3
12.5°	2683.9	2689.8	2719.5	2755.8	2820.6	2894.5	2992.8	3014.6	3064.1	3022.6	2790.2
15°	2520.1	2522.8	2551.9	2596.8	2674.0	2769.0	2880.6	2915.6	2991.5	2994.2	2739.4
17.5°	2380.8	2387.5	2405.3	2448.1	2532.7	2650.2	2780.3	2830.5	2919.6	2970.4	2689.8
20°	2295.7	2302.3	2301.6	2325.4	2401.3	2526.8	2679.9	2740.0	2848.3	2946.0	2645.6
22.5°	2279.1	2279.1	2261.9	2258.7	2303.6	2408.5	2575.6	2648.9	2784.3	2935.5	2614.6
25°	2338.0	2335.3	2292.3	2257.3	2259.4	2322.1	2474.6	2561.8	2730.1	2942.7	2598.1
27.5°	2462.0	2458.8	2404.5	2338.0	2284.5	2283.7	2398.0	2491.7	2687.2	2977.0	2604.6
30°	2633.7	2632.4	2573.6	2489.8	2392.7	2303.6	2371.6	2456.7	2659.5	3039.1	2619.9
32.5°	2821.2	2819.3	2775.0	2686.5	2563.7	2392.7	2399.3	2470.6	2667.3	3121.6	2656.8
35°	3020.0	3016.7	2997.5	2920.2	2784.9	2557.1	2490.5	2545.9	2717.6	3245.1	2729.4
37.5°	3235.2	3238.5	3252.4	3178.4	3036.4	2787.5	2642.9	2680.5	2818.5	3412.8	2847.6
40°	3552.7	3552.1	3556.7	3459.6	3323.0	3069.5	2856.2	2868.0	2987.6	3635.3	3027.2
42.5°	4129.1	4088.8	3966.7	3768.7	3631.4	3391.7	3124.9	3112.3	3194.3	3910.6	3278.8
45°	4903.6	4817.8	4500.9	4121.3	3945.6	3754.8	3455.7	3415.4	3467.6	4241.4	3589.0
47.5°	5569.8	5480.7	5032.4	4488.3	4279.0	4099.5	3843.2	3770.6	3787.8	4611.8	3982.6
50°	5796.2	5752.7	5361.2	4807.9	4601.8	4533.2	4292.9	4204.4	4180.0	5040.3	4438.8
52.5°	5717.7	5714.4	5453.6	5015.2	4897.7	4982.2	4858.7	4756.4	4666.6	5491.9	4903.0
55°	5591.6	5608.1	5491.2	5196.8	5192.8	5392.2	5632.5	5547.4	5287.2	5982.4	5303.1
57.5°	5243.6	5314.3	5470.1	5540.1	5702.5	5906.5	6276.9	6327.1	6019.5	6358.2	5635.1
60°	4254.6	4409.7	4919.5	5589.6	6359.5	6867.8	7054.7	7097.6	6620.2	6670.5	6083.5
62.5°	3020.0	3178.4	3824.8	4958.4	6369.3	8130.8	8213.4	8045.0	7281.8	7133.2	6856.6
65°	1603.1	1725.2	2253.4	3579.2	5522.3	8424.0	10239.6	9737.9	8449.1	8043.8	7855.5
67.5°	820.0	857.0	1066.9	1751.6	3796.4	7482.5	12056.0	12409.2	10460.9	8946.9	7807.4
69°	725.6	747.4	886.7	1266.3	2431.0	6337.7	12144.5	13326.3	11513.9	8871.6	7095.0
70°	702.5	721.7	848.4	1146.2	1900.1	5314.9	11805.8	13245.8	11783.4	8585.1	6562.8
72.5°	596.2	612.7	755.3	1012.8	1544.3	2638.3	9590.0	11224.1	10573.7	7151.8	4750.5
75°	398.7	453.0	725.0	949.4	1436.7	1498.7	6322.4	8111.1	7534.6	4823.7	2474.6
77.5°	95.7	103.0	204.7	755.3	1313.9	1319.2	3251.7	5042.2	4112.7	1719.3	584.9
80°	51.5	49.5	57.5	149.9	1223.4	1238.0	1463.7	2447.5	1468.3	285.2	192.8
82.5°	36.3	34.4	36.9	62.7	384.9	1127.7	1059.1	1107.9	608.8	109.6	86.5
85°	13.2	12.6	20.5	56.8	120.8	648.3	1088.1	913.8	493.2	50.2	63.4
87.5°	4.6	4.0	7.9	31.0	36.9	276.0	671.5	690.6	194.2	30.4	29.7
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°	3039.1	3039.1	3039.1	3039.1	3039.1	3039.1	3039.1	3039.1	3039.1	3039.1	3039.1
2.5°	3012.0	2971.1	2895.8	2818.5	2747.2	2661.4	2618.5	2576.3	2558.4	2551.9	2520.8
5°	2924.8	2855.6	2695.8	2535.3	2387.5	2230.3	2126.6	2043.4	1994.5	1970.8	1933.2
7.5°	2813.3	2699.8	2457.4	2209.8	1979.4	1752.3	1583.9	1454.5	1365.3	1322.5	1283.5
10°	2705.0	2553.8	2209.2	1871.8	1558.9	1257.7	1025.4	857.0	749.4	699.9	668.2
12.5°	2607.9	2411.8	1969.5	1542.3	1149.5	796.9	560.6	426.5	359.9	336.8	325.5
15°	2521.5	2281.2	1743.0	1229.4	778.5	455.5	306.4	260.8	250.2	250.2	248.9
17.5°	2439.6	2153.0	1524.5	935.6	488.6	278.7	233.0	227.1	227.1	229.8	229.8
20°	2361.1	2030.9	1313.3	671.5	307.7	221.2	210.6	209.3	210.6	213.9	213.9
22.5°	2293.7	1920.0	1115.8	460.8	228.4	199.4	194.2	192.1	192.8	194.8	196.1
25°	2243.5	1826.3	929.7	312.3	196.7	181.6	175.6	172.4	169.7	169.7	171.0
27.5°	2211.8	1747.0	749.4	227.1	177.0	165.1	155.8	150.6	144.5	141.3	142.6
30°	2188.7	1671.7	580.3	185.6	158.5	146.6	134.7	126.1	117.5	113.5	114.9
32.5°	2180.1	1610.9	433.7	163.8	142.0	128.8	114.3	103.0	93.8	90.4	91.1
35°	2203.2	1562.8	317.6	147.9	128.8	112.2	95.7	83.2	75.9	74.0	74.6
37.5°	2264.0	1537.1	237.7	134.7	116.8	98.4	79.9	68.0	63.4	63.4	64.0
40°	2378.9	1536.4	190.8	125.4	106.3	85.2	66.0	57.5	54.8	56.2	56.8
42.5°	2546.5	1571.4	166.3	116.8	97.1	72.6	54.8	48.9	48.2	49.5	50.2
45°	2775.7	1635.4	153.1	109.6	87.2	60.8	46.2	42.2	42.2	44.2	44.9
47.5°	3056.3	1729.2	142.0	102.3	77.2	50.8	39.6	36.9	37.6	39.6	40.3
50°	3394.3	1847.3	130.7	94.4	70.0	42.2	34.4	32.3	33.0	35.7	36.3
52.5°	3779.2	2006.5	121.5	87.2	60.8	35.0	29.1	27.7	29.1	31.7	32.3
55°	4109.3	2149.1	110.3	81.2	48.9	29.1	23.7	23.7	25.1	28.4	29.1
57.5°	4426.9	2298.3	100.4	70.0	38.3	23.1	19.8	20.5	22.4	25.8	26.4
60°	4893.1	2551.1	88.5	58.7	29.1	18.5	16.5	17.2	19.8	23.1	23.7
62.5°	5684.6	2936.1	76.6	48.9	22.4	14.5	13.2	14.5	17.8	21.8	22.4
65°	6399.1	3092.6	62.7	40.9	17.2	11.3	11.3	13.2	17.2	21.2	21.8
67.5°	6000.9	2603.3	48.9	32.3	13.2	8.6	9.2	12.6	16.5	21.2	21.8
69°	5307.1	2128.7	41.6	25.8	11.3	7.9	8.6	12.6	16.5	20.5	21.2
70°	4766.2	1797.2	36.9	21.8	9.9	7.9	8.6	11.9	16.5	20.5	21.2
72.5°	3192.2	970.6	29.7	15.9	9.2	7.3	7.3	11.9	15.9	19.8	20.5
75°	1372.0	268.0	23.7	11.3	7.9	6.6	6.6	11.3	15.1	19.1	20.5
77.5°	250.9	68.0	19.1	9.9	7.9	6.6	5.9	10.5	14.5	18.5	19.1
80°	99.7	33.7	15.1	8.6	7.3	5.9	5.3	9.9	13.9	17.8	18.5
82.5°	60.0	19.1	12.6	7.9	7.3	5.3	4.6	8.6	13.2	17.2	17.8
85°	48.9	13.2	9.9	7.9	6.6	5.3	4.0	7.9	11.9	16.5	17.2
87.5°	23.7	9.2	9.2	7.3	6.6	5.3	4.0	7.3	11.3	15.9	16.5
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)