

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: P191121

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191121  
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-03-LED-E1-SL3-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 12831.9 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

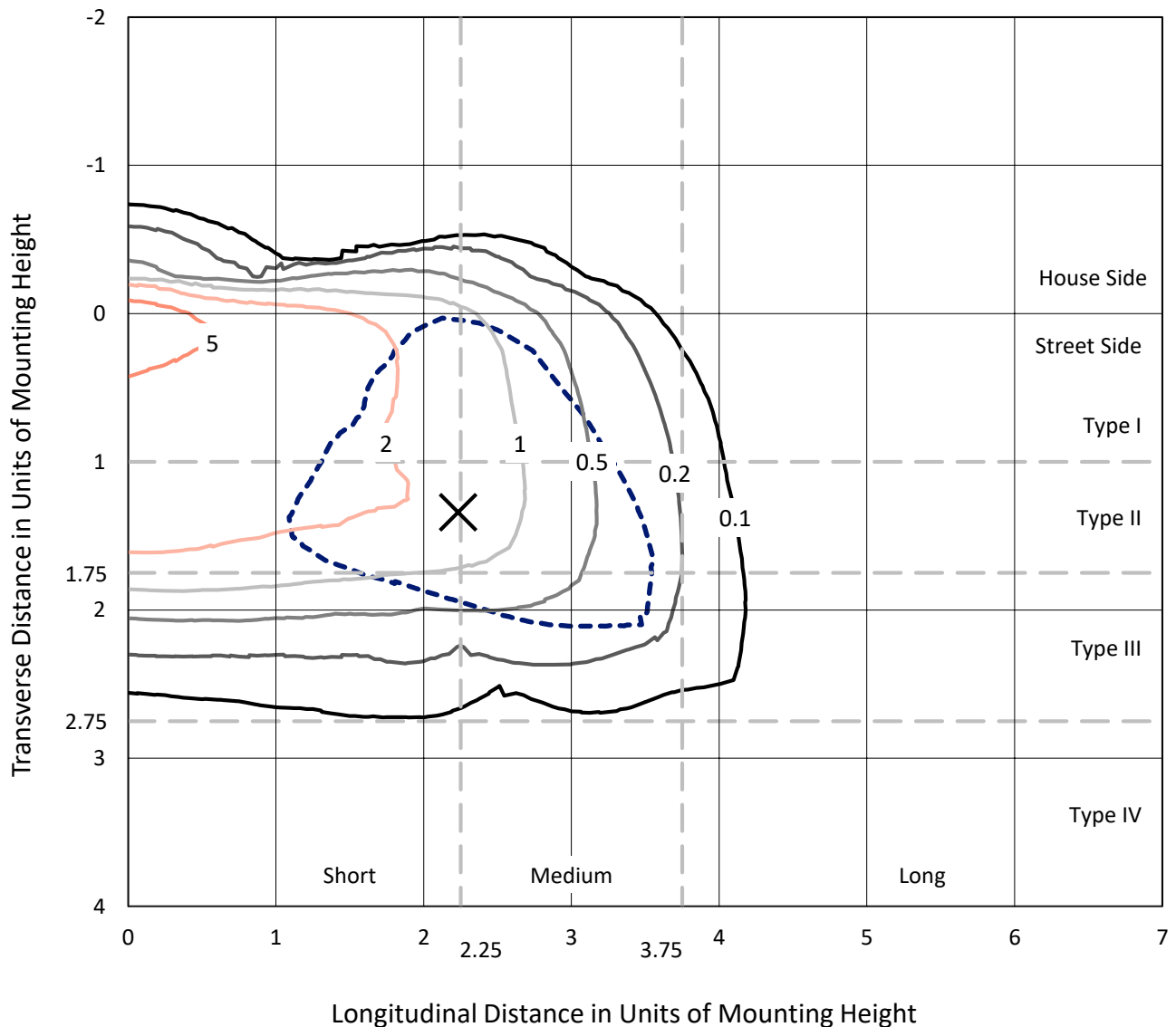
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

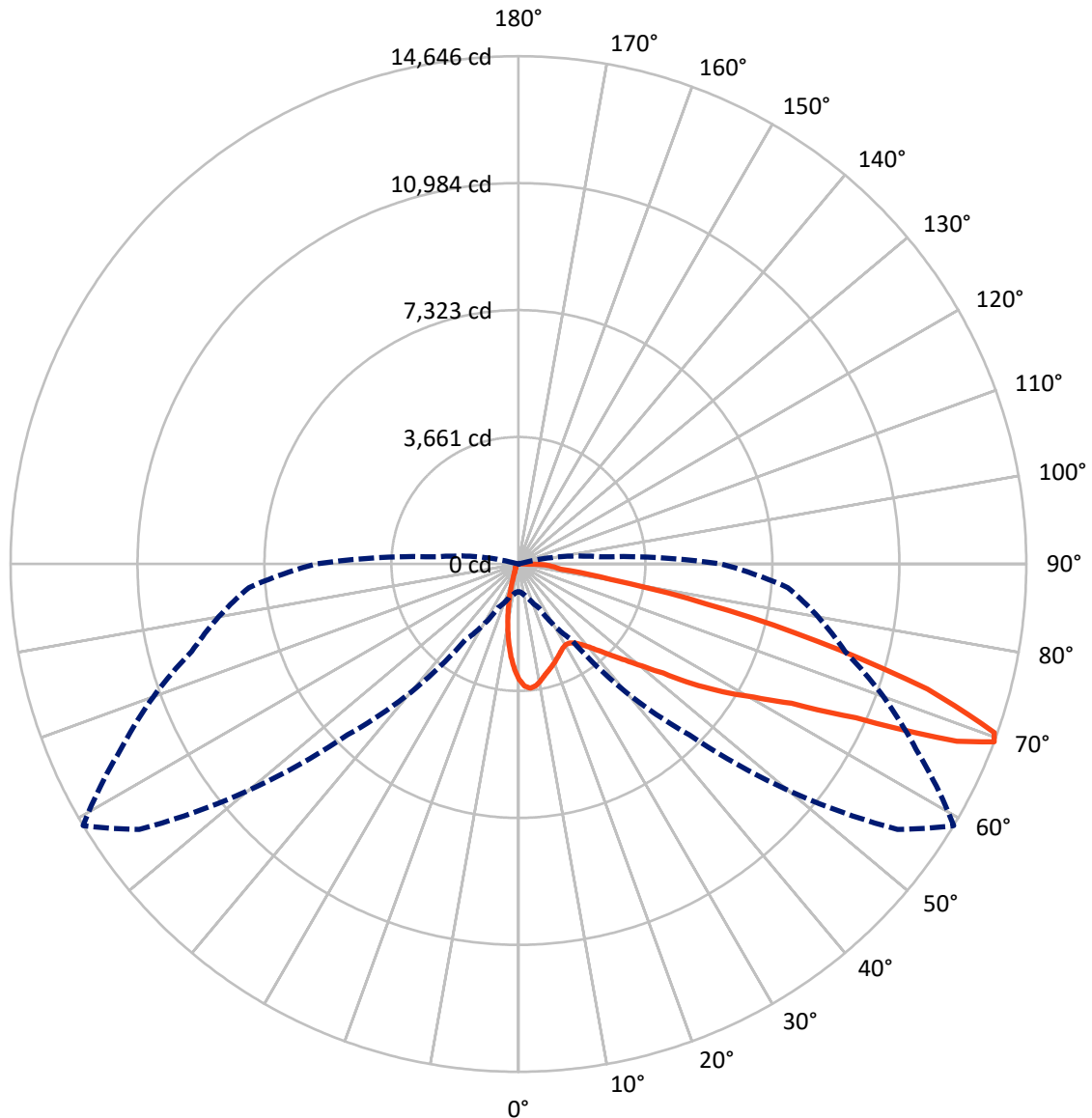
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 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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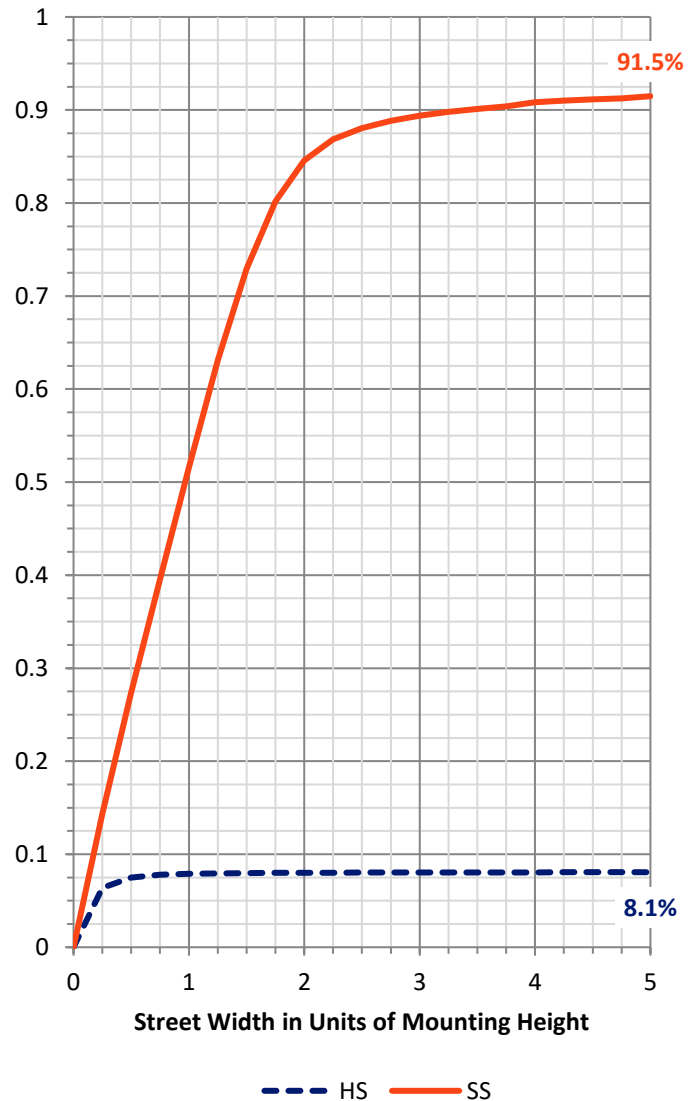
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1045.0	0.0	1045.0
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	11786.9	0.0	11786.9
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	12831.9	0.0	12831.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.1	2.1
10°-20°	560.2	4.4
20°-30°	753.8	5.9
30°-40°	1094.5	8.5
40°-50°	1822.4	14.2
50°-60°	2842.9	22.2
60°-70°	3517.8	27.4
70°-80°	1782.8	13.9
80°-90°	186.5	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°	12831.9	100.0
0°-180°	12831.9	100.0



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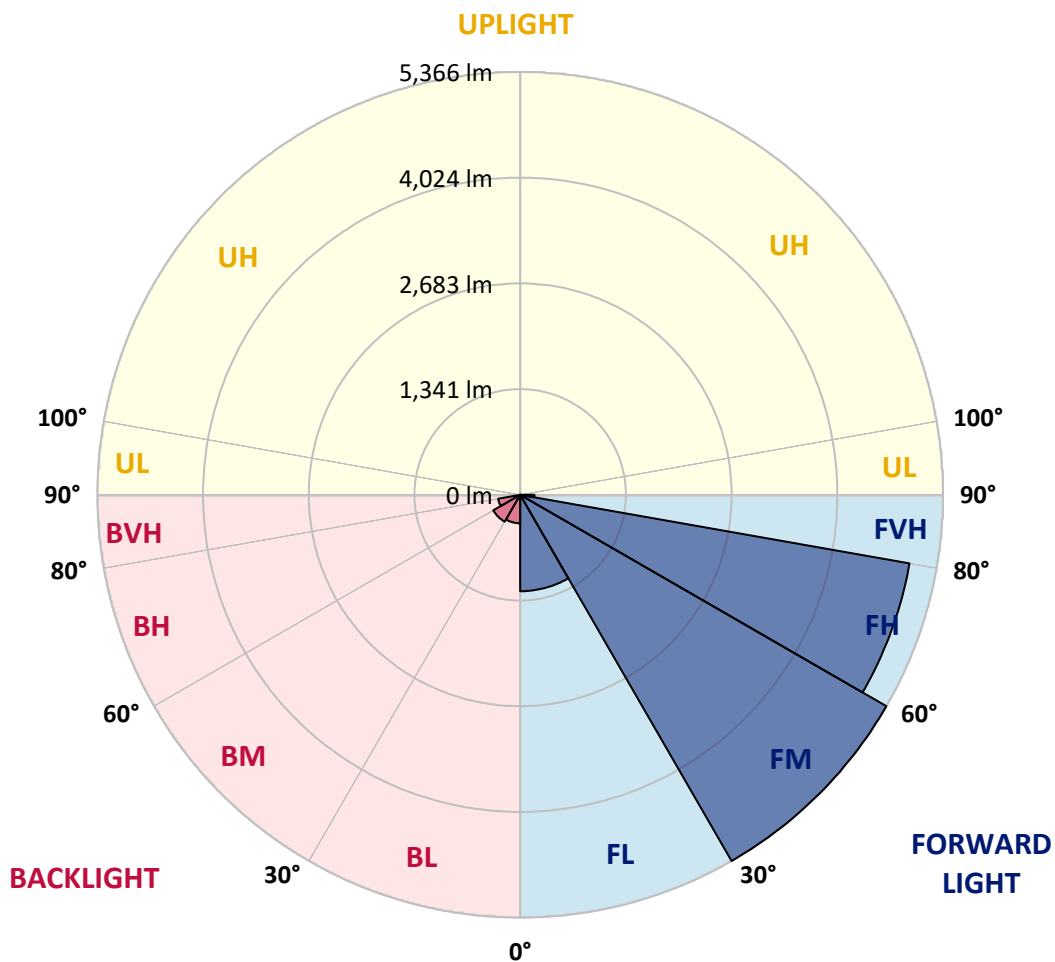
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1223.4	9.5			
FM	(30°-60°)	5365.9	41.8			
FH	(60°-80°)	5016.8	39.1			G3/7500
FVH	(80°-90°)	180.8	1.4			G2/225
BL	(0°-30°)	361.7	2.8	B1/500		
BM	(30°-60°)	393.8	3.1	B1/1000		
BH	(60°-80°)	283.8	2.2	B1/500		G1/500
BVH	(80°-90°)	5.7	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9
2.5°	3660.7	3659.2	3643.2	3636.0	3623.0	3595.4	3552.6	3530.1	3493.8	3430.7	3345.8
5°	3627.3	3644.7	3654.2	3654.9	3664.3	3654.2	3615.7	3596.8	3546.8	3445.2	3292.8
7.5°	3400.9	3407.4	3434.3	3457.5	3502.5	3545.3	3559.1	3551.1	3521.4	3412.6	3210.1
10°	3158.6	3165.1	3197.0	3227.5	3288.5	3354.5	3424.1	3438.6	3451.0	3366.1	3130.2
12.5°	2949.6	2956.1	2988.8	3028.7	3099.7	3181.1	3289.2	3313.1	3367.6	3321.8	3066.4
15°	2769.6	2772.5	2804.4	2853.8	2938.7	3043.2	3165.8	3204.3	3287.8	3290.6	3010.5
17.5°	2616.5	2623.8	2643.4	2690.6	2783.4	2912.5	3055.6	3110.7	3208.6	3264.5	2956.1
20°	2522.9	2530.2	2529.5	2555.5	2639.0	2776.9	2945.3	3011.3	3130.2	3237.6	2907.5
22.5°	2504.8	2504.8	2486.0	2482.3	2531.6	2647.0	2830.6	2911.1	3059.9	3226.1	2873.4
25°	2569.3	2566.5	2519.3	2480.9	2483.0	2552.0	2719.6	2815.4	3000.4	3234.1	2855.3
27.5°	2705.8	2702.1	2642.7	2569.3	2510.6	2509.9	2635.4	2738.4	2953.3	3271.8	2862.5
30°	2894.4	2893.0	2828.5	2736.3	2629.6	2531.6	2606.4	2700.0	2922.8	3339.9	2879.2
32.5°	3100.6	3098.3	3049.7	2952.4	2817.5	2629.6	2636.9	2715.2	2931.5	3430.7	2919.8
35°	3319.0	3315.3	3294.2	3209.4	3060.6	2810.3	2737.0	2798.0	2986.6	3566.3	2999.7
37.5°	3555.5	3559.1	3574.3	3493.1	3337.1	3063.5	2904.6	2946.0	3097.6	3750.6	3129.5
40°	3904.5	3903.8	3908.8	3802.2	3651.9	3373.4	3138.9	3152.0	3283.4	3995.2	3326.9
42.5°	4537.9	4493.7	4359.4	4141.7	3990.8	3727.4	3434.3	3420.5	3510.5	4297.7	3603.3
45°	5389.1	5294.8	4946.5	4529.2	4336.2	4126.5	3797.8	3753.5	3810.9	4661.3	3944.4
47.5°	6121.2	6023.2	5530.6	4932.7	4702.6	4505.3	4223.8	4144.0	4162.8	5068.3	4376.9
50°	6370.1	6322.2	5891.9	5283.8	5057.5	4982.0	4717.8	4620.7	4593.8	5539.3	4878.2
52.5°	6283.8	6280.1	5993.5	5511.7	5382.6	5475.4	5339.7	5227.3	5128.6	6035.6	5388.4
55°	6145.2	6163.3	6034.9	5711.2	5706.9	5926.1	6190.2	6096.6	5810.7	6574.7	5828.1
57.5°	5762.8	5840.4	6011.7	6088.6	6267.1	6491.2	6898.4	6953.5	6615.3	6987.6	6193.0
60°	4675.8	4846.3	5406.5	6143.0	6989.0	7547.7	7753.1	7800.3	7275.6	7330.8	6685.7
62.5°	3319.0	3493.1	4203.4	5449.3	7000.0	8935.9	9026.5	8841.5	8002.7	7839.5	7535.5
65°	1761.7	1896.0	2476.5	3933.6	6069.0	9258.0	11253.4	10702.0	9285.6	8840.0	8633.3
67.5°	901.2	941.8	1172.6	1925.0	4172.2	8223.3	13249.6	13637.8	11496.5	9832.7	8580.3
69°	797.4	821.4	974.5	1391.7	2671.6	6965.1	13346.8	14645.6	12653.8	9749.9	7797.3
70°	772.0	793.1	932.4	1259.7	2088.3	5841.2	12974.6	14557.1	12949.8	9435.1	7212.5
72.5°	655.2	673.4	830.1	1113.1	1697.2	2899.6	10539.5	12335.4	11620.6	7859.7	5220.7
75°	438.2	497.8	796.7	1043.4	1578.9	1647.2	6948.4	8914.1	8280.6	5301.2	2719.6
77.5°	105.3	113.2	224.9	830.1	1444.0	1449.7	3573.6	5541.4	4519.8	1889.5	642.9
80°	56.6	54.4	63.1	164.7	1344.6	1360.5	1608.7	2689.8	1613.7	313.4	211.9
82.5°	39.9	37.7	40.6	68.9	423.0	1239.3	1163.9	1217.5	669.0	120.4	95.0
85°	14.5	13.8	22.5	62.4	132.8	712.6	1195.8	1004.2	542.1	55.1	69.7
87.5°	5.1	4.4	8.7	34.1	40.6	303.3	738.0	759.0	213.3	33.3	32.6
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°	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9
2.5°	3310.2	3265.3	3182.5	3097.6	3019.2	2924.9	2877.8	2831.3	2811.7	2804.4	2770.4
5°	3214.4	3138.2	2962.7	2786.3	2623.8	2451.1	2337.1	2245.8	2192.1	2165.9	2124.6
7.5°	3091.8	2967.0	2700.7	2428.6	2175.4	1925.8	1740.8	1598.5	1500.6	1453.4	1410.5
10°	2972.8	2806.7	2427.9	2057.1	1713.1	1382.3	1126.9	941.8	823.6	769.2	734.3
12.5°	2866.1	2650.7	2164.5	1695.0	1263.2	875.9	616.0	468.7	395.5	370.1	357.7
15°	2771.1	2506.9	1915.6	1351.1	855.5	500.6	336.7	286.6	275.0	275.0	273.5
17.5°	2681.2	2366.2	1675.4	1028.2	536.9	306.2	256.1	249.6	249.6	252.5	252.5
20°	2594.8	2232.0	1443.3	738.0	338.1	243.1	231.5	230.1	231.5	235.1	235.1
22.5°	2520.8	2110.0	1226.3	506.5	251.0	219.1	213.3	211.1	211.9	214.1	215.5
25°	2465.6	2007.0	1021.6	343.2	216.3	199.6	193.0	189.3	186.5	186.5	187.9
27.5°	2430.7	1920.0	823.6	249.6	194.5	181.4	171.2	165.4	158.9	155.3	156.7
30°	2405.4	1837.2	637.8	203.9	174.1	161.1	148.0	138.6	129.2	124.8	126.2
32.5°	2396.0	1770.5	476.7	179.9	156.0	141.5	125.5	113.2	103.0	99.4	100.1
35°	2421.3	1717.5	349.0	162.5	141.5	123.4	105.3	91.5	83.5	81.2	82.0
37.5°	2488.1	1689.2	261.3	148.0	128.5	108.1	87.8	74.8	69.7	69.7	70.4
40°	2614.4	1688.5	209.7	137.9	116.8	93.6	72.5	63.1	60.3	61.7	62.4
42.5°	2798.7	1726.9	182.9	128.5	106.7	79.8	60.3	53.7	53.0	54.4	55.1
45°	3050.4	1797.3	168.4	120.4	95.7	66.8	50.8	46.4	46.4	48.6	49.3
47.5°	3358.9	1900.3	156.0	112.4	84.9	55.9	43.6	40.6	41.3	43.6	44.3
50°	3730.3	2030.3	143.6	103.7	76.9	46.4	37.7	35.6	36.3	39.2	39.9
52.5°	4153.4	2205.1	133.5	95.7	66.8	38.5	31.9	30.5	31.9	34.8	35.6
55°	4516.1	2361.9	121.2	89.2	53.7	31.9	26.1	26.1	27.6	31.2	31.9
57.5°	4865.2	2525.9	110.3	76.9	42.0	25.4	21.8	22.5	24.7	28.3	29.1
60°	5377.4	2803.7	97.2	64.5	31.9	20.4	18.1	18.8	21.8	25.4	26.1
62.5°	6247.5	3226.8	84.2	53.7	24.7	16.0	14.5	16.0	19.6	23.9	24.7
65°	7032.6	3398.8	68.9	45.0	18.8	12.4	12.4	14.5	18.8	23.2	23.9
67.5°	6595.1	2861.1	53.7	35.6	14.5	9.4	10.1	13.8	18.1	23.2	23.9
69°	5832.5	2339.4	45.7	28.3	12.4	8.7	9.4	13.8	18.1	22.5	23.2
70°	5238.1	1975.1	40.6	23.9	10.8	8.7	9.4	13.1	18.1	22.5	23.2
72.5°	3508.3	1066.6	32.6	17.4	10.1	8.0	8.0	13.1	17.4	21.8	22.5
75°	1507.8	294.6	26.1	12.4	8.7	7.3	7.3	12.4	16.7	21.1	22.5
77.5°	275.7	74.8	21.1	10.8	8.7	7.3	6.5	11.6	16.0	20.4	21.1
80°	109.6	37.0	16.7	9.4	8.0	6.5	5.8	10.8	15.2	19.6	20.4
82.5°	66.0	21.1	13.8	8.7	8.0	5.8	5.1	9.4	14.5	18.8	19.6
85°	53.7	14.5	10.8	8.7	7.3	5.8	4.4	8.7	13.1	18.1	18.8
87.5°	26.1	10.1	10.1	8.0	7.3	5.8	4.4	8.0	12.4	17.4	18.1
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)