

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: P193743

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193743  
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-05-LED-E1-SL4-8030-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 800mA 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: 15919 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 210  
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

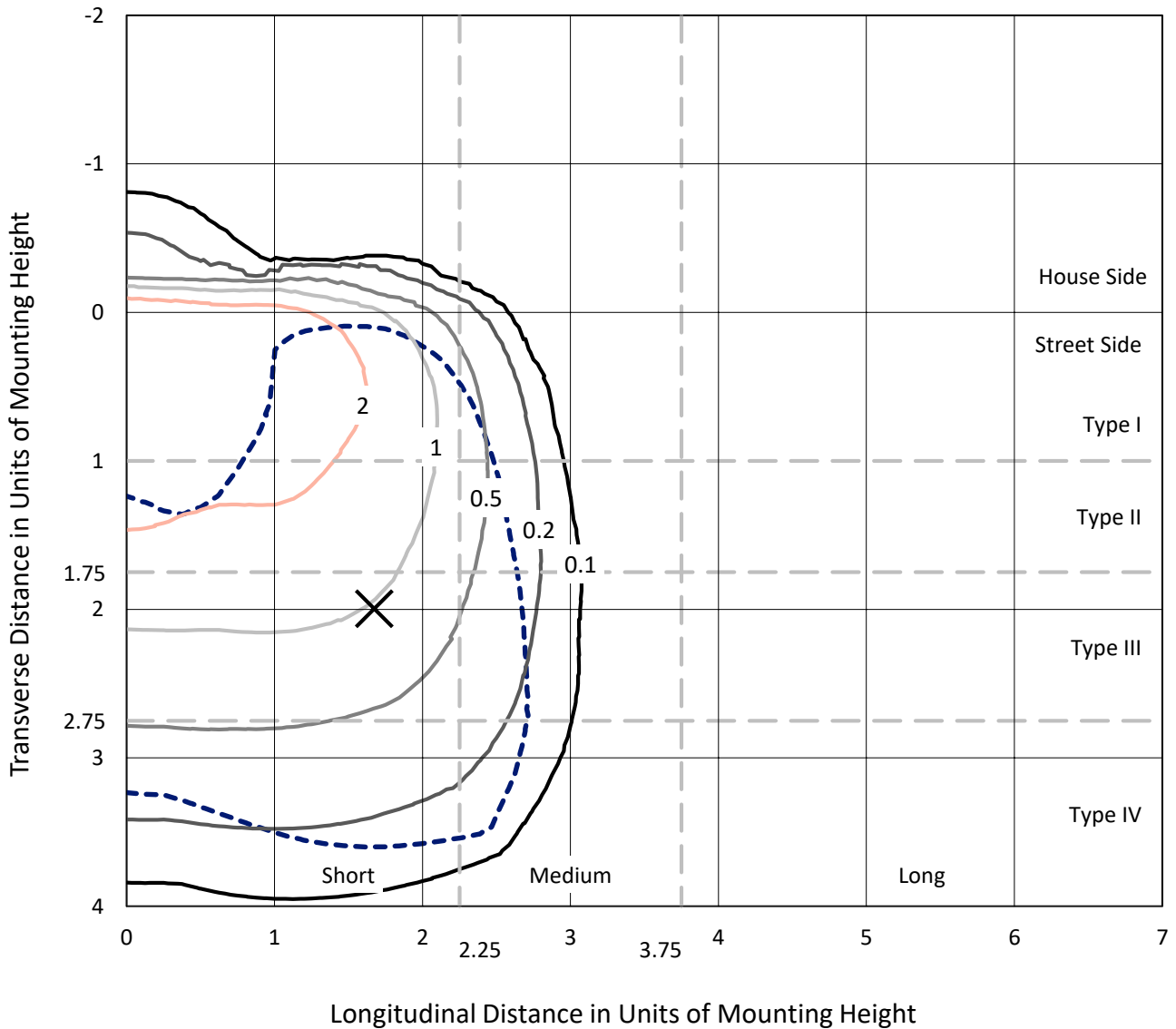


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

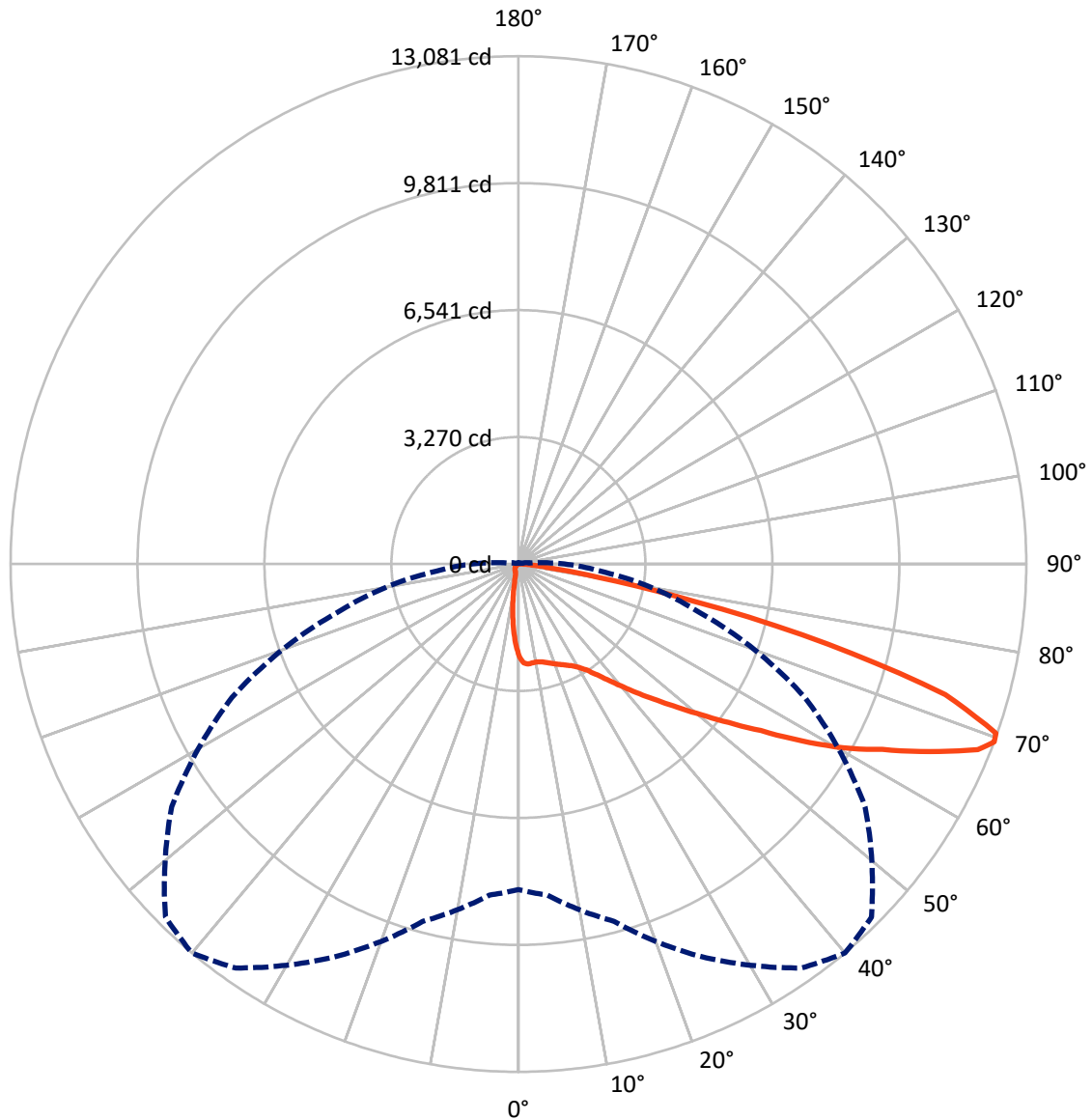


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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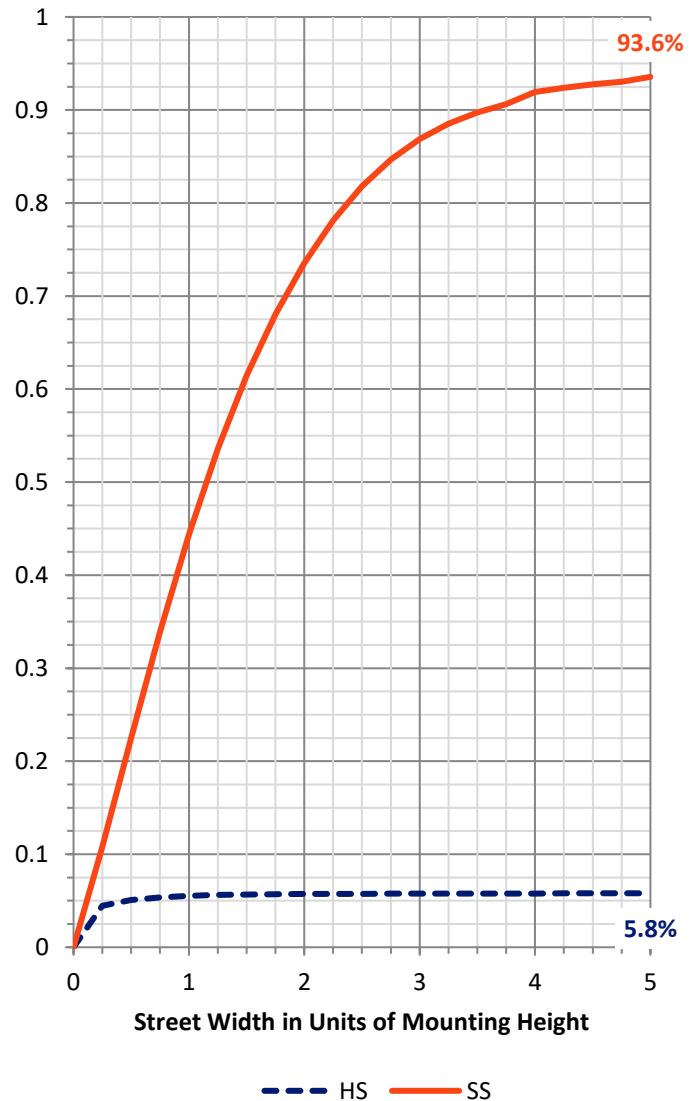
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	931.4	0.0	931.4
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	14987.6	0.0	14987.6
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	15919.0	0.0	15919.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.8	1.2
10°-20°	474.2	3.0
20°-30°	798.8	5.0
30°-40°	1307.6	8.2
40°-50°	2264.1	14.2
50°-60°	3566.1	22.4
60°-70°	4657.2	29.3
70°-80°	2398.7	15.1
80°-90°	259.5	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°	15919.0	100.0
0°-180°	15919.0	100.0



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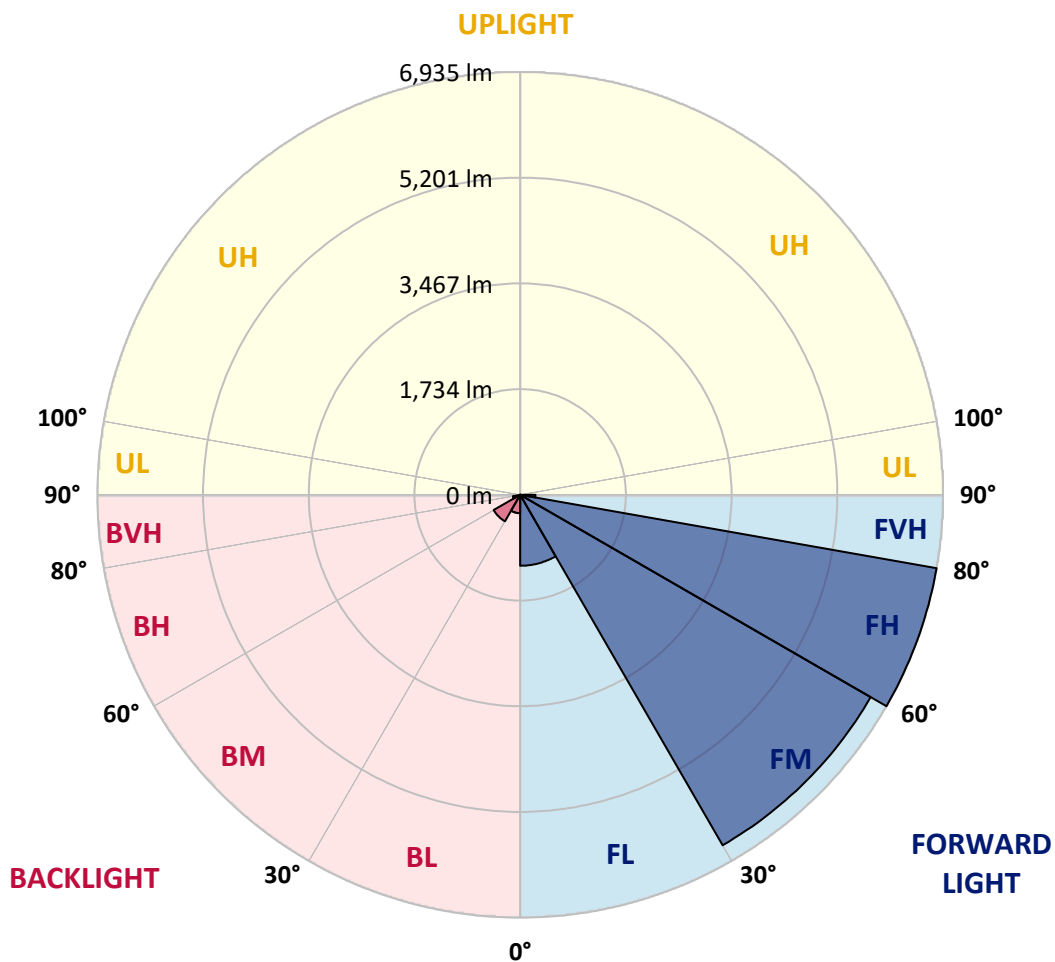
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1164.1	7.3			
FM	(30°-60°)	6637.2	41.7			
FH	(60°-80°)	6935.0	43.6			G3/7500
FVH	(80°-90°)	251.3	1.6			G3/500
BL	(0°-30°)	301.7	1.9	B1/500		
BM	(30°-60°)	500.6	3.1	B1/1000		
BH	(60°-80°)	120.9	0.8	B1/500		G1/500
BVH	(80°-90°)	8.2	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°	2378.4	2378.4	2378.4	2378.4	2378.4	2378.4	2378.4	2378.4	2378.4	2378.4	2378.4
2.5°	2611.5	2597.3	2588.7	2577.4	2563.2	2550.8	2546.1	2511.0	2477.9	2432.4	2380.3
5°	2659.8	2655.1	2639.9	2624.7	2607.7	2588.7	2578.3	2536.6	2489.2	2422.9	2331.9
7.5°	2664.5	2658.9	2639.9	2619.1	2595.4	2572.6	2554.6	2512.9	2469.3	2402.1	2291.2
10°	2657.0	2650.3	2636.1	2613.4	2584.0	2562.2	2544.2	2504.4	2467.5	2406.8	2283.6
12.5°	2648.4	2641.8	2635.2	2623.8	2598.2	2583.1	2567.9	2530.0	2496.8	2445.7	2311.1
15°	2657.0	2653.2	2660.8	2656.0	2641.8	2628.5	2613.4	2579.3	2548.9	2506.3	2361.3
17.5°	2693.0	2693.0	2716.7	2719.5	2706.2	2687.3	2665.5	2631.4	2605.8	2569.8	2421.0
20°	2777.3	2774.5	2804.8	2810.5	2778.3	2748.9	2716.7	2675.0	2655.1	2632.3	2479.8
22.5°	2922.3	2909.0	2927.0	2921.3	2857.8	2812.4	2772.6	2721.4	2711.0	2700.6	2545.2
25°	3110.8	3103.3	3115.6	3059.7	2947.9	2886.3	2838.9	2781.1	2781.1	2791.5	2619.1
27.5°	3384.7	3356.3	3314.6	3216.0	3048.3	2969.7	2918.5	2856.9	2873.0	2911.9	2716.7
30°	3665.2	3633.9	3538.2	3386.6	3170.5	3088.1	3028.4	2964.0	3001.9	3072.9	2847.4
32.5°	3941.9	3906.8	3771.3	3579.9	3345.8	3263.4	3205.6	3134.5	3198.0	3317.4	3038.8
35°	4210.0	4178.7	4022.4	3796.9	3578.9	3510.7	3457.7	3396.1	3477.6	3644.3	3308.9
37.5°	4511.3	4477.2	4286.8	4042.3	3862.3	3813.0	3774.1	3712.5	3854.7	4099.2	3685.1
40°	4881.8	4824.0	4567.2	4323.7	4190.1	4166.4	4139.9	4131.4	4352.2	4690.4	4186.3
42.5°	5306.3	5211.6	4861.0	4620.3	4550.2	4567.2	4560.6	4598.5	4974.7	5425.7	4796.6
45°	5730.9	5608.6	5187.9	4936.8	4946.3	5006.0	5042.9	5194.5	5754.5	6269.1	5453.2
47.5°	6090.9	5970.6	5501.5	5278.9	5392.6	5510.1	5610.5	5897.6	6556.2	7099.1	5964.0
50°	6398.9	6285.2	5834.1	5655.0	5910.9	6100.4	6263.4	6688.8	7418.5	7731.2	6322.1
52.5°	6650.9	6575.1	6179.1	6086.2	6503.1	6780.8	7019.5	7529.3	8182.2	8244.7	6600.7
55°	6896.4	6842.3	6549.5	6598.8	7198.6	7576.7	7879.0	8421.0	8839.8	8673.0	6867.9
57.5°	7178.7	7129.5	6972.2	7248.8	8113.0	8588.7	8918.5	9211.2	9418.8	9110.8	7120.0
60°	7466.8	7438.4	7442.2	7970.9	9162.9	9619.6	9801.6	9877.4	9987.3	9523.0	7134.2
62.5°	7741.6	7795.6	7979.4	8774.4	10168.3	10518.9	10610.8	10685.7	10556.8	9588.4	6591.2
65°	8206.8	8295.0	8733.7	9849.9	11274.1	11649.3	11744.1	11487.3	10646.8	8743.2	5361.3
67.5°	8434.2	8595.3	9378.0	10852.4	12346.7	12763.7	12728.6	11539.4	9554.3	6667.0	3440.6
69°	8386.9	8558.4	9526.8	11159.4	12703.0	13081.1	12858.4	10901.7	8139.6	4829.7	2112.1
70°	8199.3	8372.7	9450.0	11148.1	12748.5	13047.9	12617.7	10114.3	6882.1	3531.6	1320.9
72.5°	6847.1	6996.8	8389.7	10076.4	11744.1	11500.6	10555.8	7007.2	3353.4	961.8	297.5
75°	4214.8	4298.1	6019.9	7590.9	8870.1	8244.7	7032.8	3486.1	999.7	272.0	164.9
77.5°	2226.8	2264.7	3295.6	4474.4	5622.8	4652.5	3604.5	1359.8	460.5	170.6	119.4
80°	1316.2	1344.6	1774.8	2045.8	2433.3	2032.5	1441.2	834.8	329.8	107.1	106.1
82.5°	753.3	771.3	1286.8	1137.1	958.9	818.7	717.3	791.2	198.0	72.0	109.9
85°	276.7	280.5	723.9	865.1	570.4	339.2	356.3	655.7	53.1	45.5	86.2
87.5°	128.9	126.0	372.4	529.7	333.5	215.1	277.6	144.0	20.8	29.4	23.7
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°	2378.4	2378.4	2378.4	2378.4	2378.4	2378.4	2378.4	2378.4	2378.4	2378.4	2378.4
2.5°	2350.0	2314.9	2251.4	2186.0	2119.7	2068.5	2018.3	1978.5	1965.2	1940.6	1942.5
5°	2277.9	2213.5	2080.8	1946.3	1806.1	1690.5	1581.5	1493.4	1450.7	1407.1	1407.1
7.5°	2215.4	2121.6	1914.1	1695.2	1468.7	1278.3	1106.8	977.9	906.8	850.0	849.0
10°	2191.7	2064.7	1774.8	1461.1	1145.6	886.0	682.2	551.5	484.2	440.6	438.7
12.5°	2202.1	2044.8	1667.7	1245.1	849.0	569.5	395.1	310.8	282.4	269.1	269.1
15°	2232.5	2039.2	1560.6	1033.8	599.8	356.3	262.5	239.7	237.8	237.8	237.8
17.5°	2269.4	2041.0	1450.7	828.2	408.4	254.9	226.5	223.6	225.5	225.5	225.5
20°	2307.3	2042.0	1332.3	637.7	288.1	221.7	213.2	212.3	214.1	214.1	215.1
22.5°	2353.7	2046.7	1213.8	476.6	237.8	209.4	202.8	202.8	203.7	203.7	202.8
25°	2406.8	2056.2	1090.6	353.4	217.0	200.9	195.2	194.3	195.2	194.3	193.3
27.5°	2473.1	2069.5	953.2	276.7	207.5	192.4	187.6	187.6	186.7	185.7	184.8
30°	2556.5	2084.6	798.8	235.0	198.0	184.8	180.0	179.1	178.1	176.2	176.2
32.5°	2683.5	2117.8	646.2	213.2	187.6	174.4	170.6	170.6	168.7	166.8	165.8
35°	2878.7	2183.2	509.8	199.9	176.2	163.0	158.2	158.2	156.3	155.4	154.5
37.5°	3148.7	2282.7	396.1	187.6	164.9	150.7	145.9	145.0	143.1	141.2	140.2
40°	3507.9	2405.9	311.7	176.2	153.5	138.3	134.6	132.7	128.9	126.0	126.0
42.5°	3958.9	2546.1	253.0	163.9	140.2	127.0	124.1	121.3	114.7	111.8	110.9
45°	4430.8	2672.1	214.1	149.7	127.0	115.6	113.7	109.0	100.4	97.6	97.6
47.5°	4771.0	2701.5	188.6	136.4	114.7	103.3	102.3	93.8	86.2	84.3	83.4
50°	4983.2	2643.7	167.7	123.2	103.3	91.9	89.1	78.6	73.9	72.0	71.1
52.5°	5126.3	2540.4	150.7	111.8	92.9	81.5	74.9	67.3	63.5	61.6	61.6
55°	5241.0	2394.5	133.6	101.4	84.3	73.0	63.5	57.8	54.0	52.1	52.1
57.5°	5273.2	2196.4	116.6	92.9	75.8	64.4	54.0	50.2	45.5	44.5	44.5
60°	5039.1	1839.2	103.3	82.4	68.2	55.9	47.4	42.6	37.9	37.0	36.0
62.5°	4422.3	1423.2	91.0	73.0	59.7	48.3	40.7	35.1	31.3	31.3	31.3
65°	3373.3	954.2	79.6	63.5	52.1	40.7	35.1	28.4	26.5	26.5	27.5
67.5°	2019.3	519.3	68.2	54.0	44.5	34.1	29.4	24.6	23.7	24.6	24.6
69°	1183.5	305.1	61.6	48.3	38.9	30.3	25.6	21.8	23.7	24.6	24.6
70°	730.6	205.6	56.9	43.6	35.1	27.5	23.7	20.8	22.7	23.7	23.7
72.5°	203.7	106.1	45.5	34.1	28.4	22.7	19.0	19.0	21.8	22.7	22.7
75°	132.7	78.6	35.1	25.6	21.8	18.0	16.1	18.0	20.8	21.8	21.8
77.5°	109.9	64.4	28.4	20.8	18.0	17.1	15.2	16.1	19.0	19.9	19.9
80°	100.4	45.5	22.7	19.0	16.1	15.2	14.2	13.3	17.1	18.0	18.0
82.5°	95.7	36.0	19.9	17.1	15.2	13.3	12.3	13.3	15.2	16.1	17.1
85°	59.7	23.7	18.0	16.1	13.3	12.3	12.3	12.3	14.2	15.2	15.2
87.5°	21.8	19.0	16.1	13.3	11.4	11.4	11.4	11.4	12.3	14.2	14.2
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)