

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: P191211

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191211  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 15087.5 lumens  
Efficiency: N/A  
Efficacy: 90.9 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

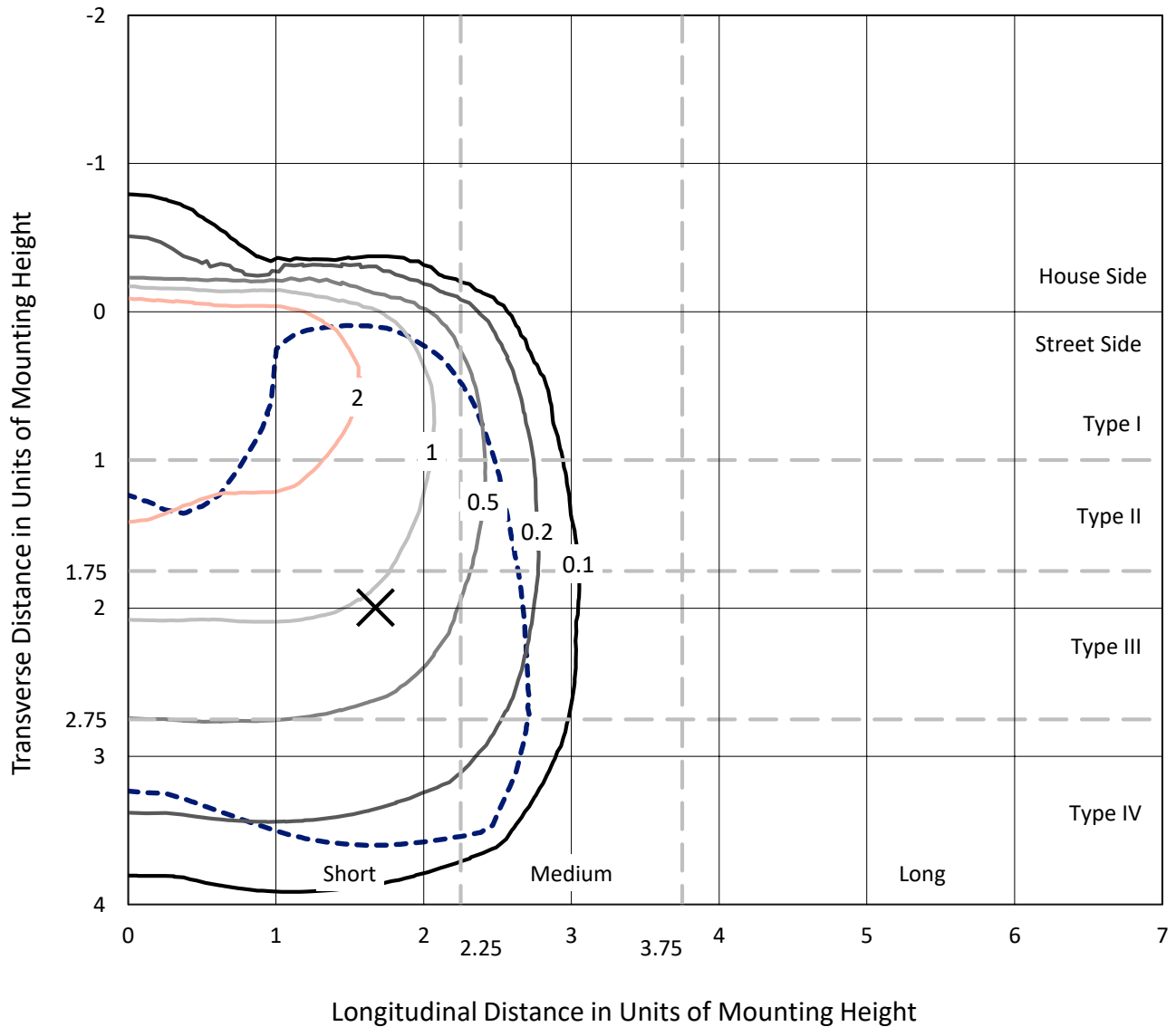
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

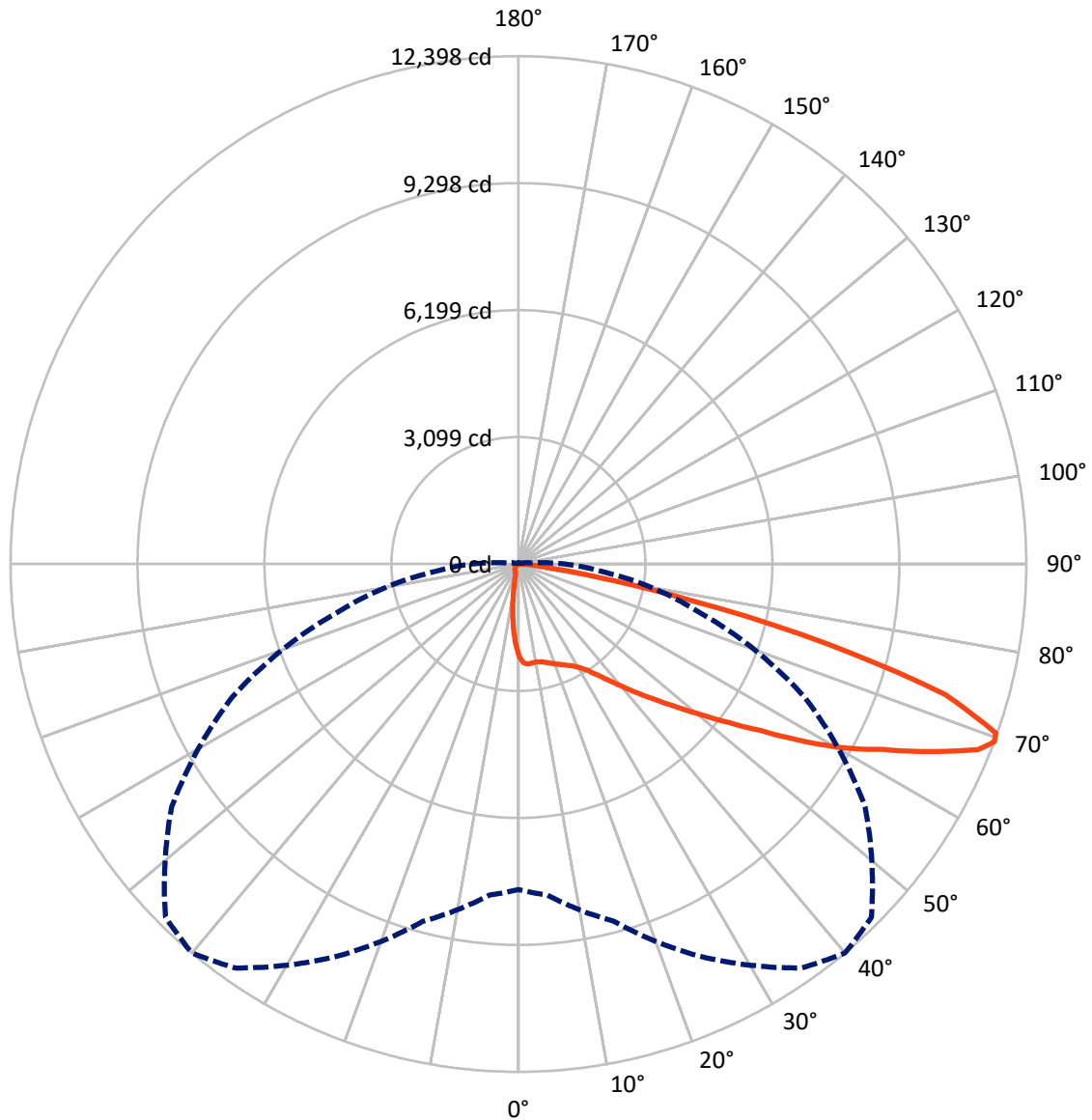


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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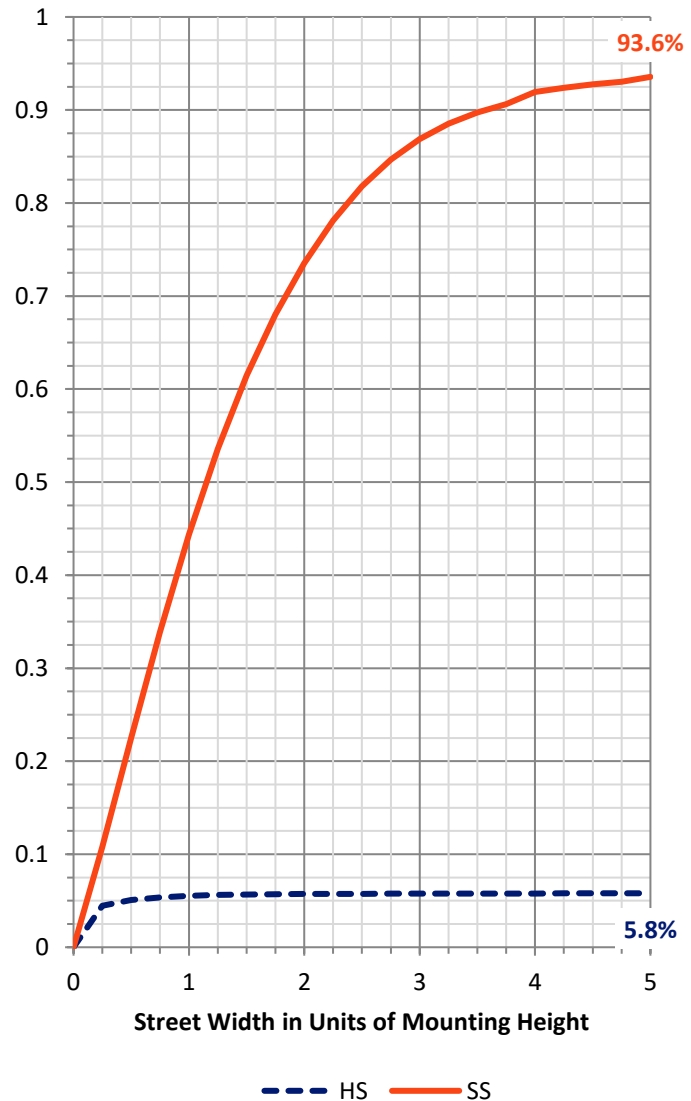
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	882.7	0.0	882.7
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	14204.8	0.0	14204.8
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	15087.5	0.0	15087.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.8	1.2
10°-20°	449.5	3.0
20°-30°	757.0	5.0
30°-40°	1239.3	8.2
40°-50°	2145.8	14.2
50°-60°	3379.9	22.4
60°-70°	4414.0	29.3
70°-80°	2273.4	15.1
80°-90°	245.9	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°	15087.5	100.0
0°-180°	15087.5	100.0



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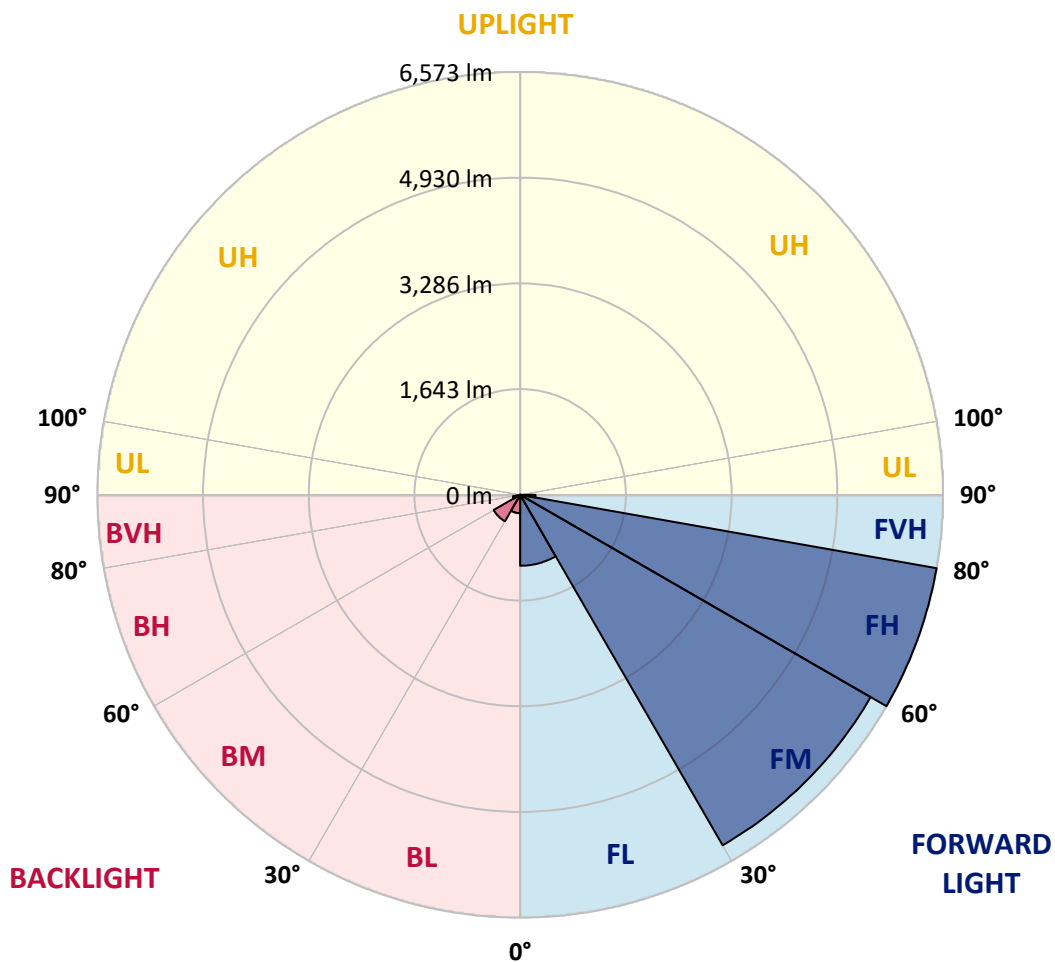
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1103.3	7.3			
FM	(30°-60°)	6290.5	41.7			
FH	(60°-80°)	6572.7	43.6			G3/7500
FVH	(80°-90°)	238.2	1.6			G3/500
BL	(0°-30°)	285.9	1.9	B1/500		
BM	(30°-60°)	474.4	3.1	B1/1000		
BH	(60°-80°)	114.6	0.8	B1/500		G1/500
BVH	(80°-90°)	7.7	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°	2254.2	2254.2	2254.2	2254.2	2254.2	2254.2	2254.2	2254.2	2254.2	2254.2	2254.2
2.5°	2475.0	2461.6	2453.5	2442.7	2429.3	2417.6	2413.1	2379.9	2348.5	2305.3	2255.9
5°	2520.9	2516.4	2502.0	2487.6	2471.4	2453.5	2443.6	2404.1	2359.2	2296.3	2210.2
7.5°	2525.4	2519.9	2502.0	2482.3	2459.8	2438.2	2421.2	2381.6	2340.4	2276.6	2171.5
10°	2518.2	2511.9	2498.5	2476.9	2449.0	2428.4	2411.3	2373.6	2338.6	2281.1	2164.4
12.5°	2510.1	2503.8	2497.5	2486.8	2462.5	2448.1	2433.8	2397.8	2366.4	2317.9	2190.3
15°	2518.2	2514.6	2521.8	2517.3	2503.8	2491.2	2476.9	2444.5	2415.8	2375.4	2238.0
17.5°	2552.3	2552.3	2574.8	2577.4	2564.8	2546.9	2526.3	2494.0	2469.7	2435.5	2294.6
20°	2632.3	2629.5	2658.2	2663.7	2633.2	2605.3	2574.8	2535.3	2516.4	2494.9	2350.2
22.5°	2769.6	2757.1	2774.1	2768.7	2708.6	2665.5	2627.8	2579.3	2569.3	2559.5	2412.2
25°	2948.3	2941.2	2952.8	2899.9	2793.9	2735.5	2690.6	2635.8	2635.8	2645.7	2482.3
27.5°	3207.9	3181.0	3141.5	3048.1	2889.1	2814.5	2766.1	2707.6	2723.0	2759.7	2574.8
30°	3473.7	3444.1	3353.3	3209.7	3004.9	2926.8	2870.2	2809.1	2845.0	2912.4	2698.6
32.5°	3735.9	3702.8	3574.3	3392.9	3171.0	3093.0	3038.2	2970.9	3031.0	3144.1	2880.1
35°	3990.1	3960.5	3812.3	3598.5	3392.0	3327.4	3277.0	3218.7	3295.9	3454.0	3136.1
37.5°	4275.7	4243.4	4062.9	3831.2	3660.5	3613.8	3577.1	3518.6	3653.4	3885.1	3492.6
40°	4626.8	4572.1	4328.7	4097.8	3971.3	3948.8	3923.6	3915.5	4124.8	4445.4	3967.6
42.5°	5029.1	4939.4	4607.1	4378.9	4312.6	4328.7	4322.4	4358.3	4714.9	5142.4	4546.0
45°	5431.6	5315.7	4916.9	4679.0	4687.9	4744.4	4779.5	4923.3	5454.0	5941.6	5168.4
47.5°	5772.8	5658.8	5214.2	5003.2	5110.9	5222.3	5317.5	5589.6	6213.7	6728.4	5652.4
50°	6064.7	5956.8	5529.4	5359.6	5602.2	5781.7	5936.2	6339.4	7030.9	7327.3	5991.9
52.5°	6303.5	6231.7	5856.3	5768.3	6163.5	6426.6	6652.9	7136.0	7754.8	7814.1	6256.0
55°	6536.1	6485.0	6207.5	6254.1	6822.6	7180.9	7467.4	7981.2	8378.1	8220.0	6509.2
57.5°	6803.7	6757.1	6608.0	6870.2	7689.2	8140.1	8452.6	8730.1	8926.8	8634.9	6748.1
60°	7076.8	7049.9	7053.5	7554.6	8684.3	9117.2	9289.6	9361.4	9465.7	9025.6	6761.6
62.5°	7337.2	7388.4	7562.7	8316.1	9637.1	9969.5	10056.5	10127.5	10005.4	9087.6	6247.0
65°	7778.2	7861.7	8277.5	9335.4	10685.2	11040.8	11130.6	10887.3	10090.7	8286.5	5081.3
67.5°	7993.7	8146.4	8888.2	10285.6	11701.8	12097.0	12063.8	10936.7	9055.3	6318.8	3260.9
69°	7948.8	8111.4	9029.2	10576.6	12039.5	12397.9	12186.8	10332.3	7714.4	4577.5	2001.8
70°	7770.9	7935.3	8956.4	10565.8	12082.6	12366.4	11958.7	9586.0	6522.6	3347.1	1251.9
72.5°	6489.4	6631.4	7951.5	9550.1	11130.6	10899.8	10004.5	6641.2	3178.3	911.6	282.0
75°	3994.6	4073.6	5705.4	7194.4	8406.8	7814.1	6665.4	3304.0	947.5	257.8	156.3
77.5°	2110.4	2146.4	3123.5	4240.6	5329.2	4409.5	3416.2	1288.7	436.5	161.6	113.1
80°	1247.4	1274.4	1682.0	1938.9	2306.2	1926.3	1365.9	791.2	312.5	101.5	100.6
82.5°	713.9	731.0	1219.6	1077.7	908.9	775.9	679.9	749.9	187.7	68.2	104.1
85°	262.3	265.9	686.1	819.9	540.6	321.5	337.7	621.4	50.3	43.1	81.7
87.5°	122.1	119.5	352.9	502.1	316.1	203.9	263.1	136.5	19.7	27.8	22.4
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°	2254.2	2254.2	2254.2	2254.2	2254.2	2254.2	2254.2	2254.2	2254.2	2254.2	2254.2
2.5°	2227.2	2194.0	2133.8	2071.9	2009.0	1960.5	1912.9	1875.2	1862.6	1839.3	1841.0
5°	2158.9	2097.9	1972.1	1844.6	1711.7	1602.1	1498.8	1415.4	1374.9	1333.6	1333.6
7.5°	2099.7	2010.8	1814.1	1606.6	1392.0	1211.5	1048.9	926.8	859.5	805.6	804.7
10°	2077.2	1956.9	1682.0	1384.9	1085.8	839.7	646.6	522.6	458.9	417.6	415.8
12.5°	2087.1	1938.0	1580.6	1180.1	804.7	539.7	374.5	294.6	267.6	255.0	255.0
15°	2115.9	1932.7	1479.1	979.8	568.5	337.7	248.8	227.2	225.5	225.5	225.5
17.5°	2150.9	1934.4	1374.9	784.9	387.1	241.6	214.6	212.0	213.7	213.7	213.7
20°	2186.8	1935.3	1262.7	604.4	273.0	210.1	202.0	201.2	203.0	203.0	203.9
22.5°	2230.9	1939.8	1150.4	451.7	225.5	198.5	192.2	192.2	193.1	193.1	192.2
25°	2281.1	1948.8	1033.7	335.0	205.6	190.4	185.1	184.1	185.1	184.1	183.2
27.5°	2344.0	1961.4	903.5	262.3	196.7	182.3	177.8	177.8	177.0	176.0	175.1
30°	2423.0	1975.7	757.1	222.7	187.7	175.1	170.6	169.7	168.8	167.0	167.0
32.5°	2543.4	2007.1	612.4	202.0	177.8	165.2	161.6	161.6	159.9	158.0	157.1
35°	2728.3	2069.1	483.1	189.5	167.0	154.5	150.0	150.0	148.2	147.3	146.4
37.5°	2984.3	2163.4	375.4	177.8	156.3	142.8	138.3	137.4	135.6	133.8	132.9
40°	3324.7	2280.2	295.4	167.0	145.5	131.1	127.6	125.7	122.1	119.5	119.5
42.5°	3752.1	2413.1	239.8	155.4	132.9	120.3	117.6	115.0	108.6	106.0	105.1
45°	4199.3	2532.5	203.0	141.9	120.3	109.6	107.8	103.3	95.2	92.5	92.5
47.5°	4521.7	2560.3	178.7	129.3	108.6	97.9	97.0	88.9	81.7	79.9	79.1
50°	4723.0	2505.6	159.0	116.7	97.9	87.2	84.4	74.6	70.1	68.2	67.3
52.5°	4858.5	2407.7	142.8	106.0	88.0	77.2	71.0	63.7	60.1	58.4	58.4
55°	4967.2	2269.4	126.6	96.1	79.9	69.2	60.1	54.8	51.1	49.4	49.4
57.5°	4997.7	2081.7	110.5	88.0	71.8	61.1	51.1	47.6	43.1	42.2	42.2
60°	4776.0	1743.1	97.9	78.2	64.7	53.0	44.9	40.4	35.9	35.0	34.2
62.5°	4191.2	1348.9	86.2	69.2	56.6	45.8	38.7	33.2	29.7	29.7	29.7
65°	3197.1	904.4	75.4	60.1	49.4	38.7	33.2	26.9	25.2	25.2	26.1
67.5°	1913.7	492.1	64.7	51.1	42.2	32.3	27.8	23.3	22.4	23.3	23.3
69°	1121.7	289.2	58.4	45.8	36.8	28.7	24.2	20.7	22.4	23.3	23.3
70°	692.4	194.9	53.9	41.3	33.2	26.1	22.4	19.7	21.6	22.4	22.4
72.5°	193.1	100.6	43.1	32.3	26.9	21.6	18.0	18.0	20.7	21.6	21.6
75°	125.7	74.6	33.2	24.2	20.7	17.1	15.2	17.1	19.7	20.7	20.7
77.5°	104.1	61.1	26.9	19.7	17.1	16.2	14.3	15.2	18.0	18.8	18.8
80°	95.2	43.1	21.6	18.0	15.2	14.3	13.5	12.6	16.2	17.1	17.1
82.5°	90.7	34.2	18.8	16.2	14.3	12.6	11.7	12.6	14.3	15.2	16.2
85°	56.6	22.4	17.1	15.2	12.6	11.7	11.7	11.7	13.5	14.3	14.3
87.5°	20.7	18.0	15.2	12.6	10.7	10.7	10.7	10.7	11.7	13.5	13.5
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)