

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: P193734

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-8030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193734  
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-06-LED-E1-SL4-8030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 615mA 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: 15535 lumens  
Efficiency: N/A  
Efficacy: 80.5 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): 193  
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

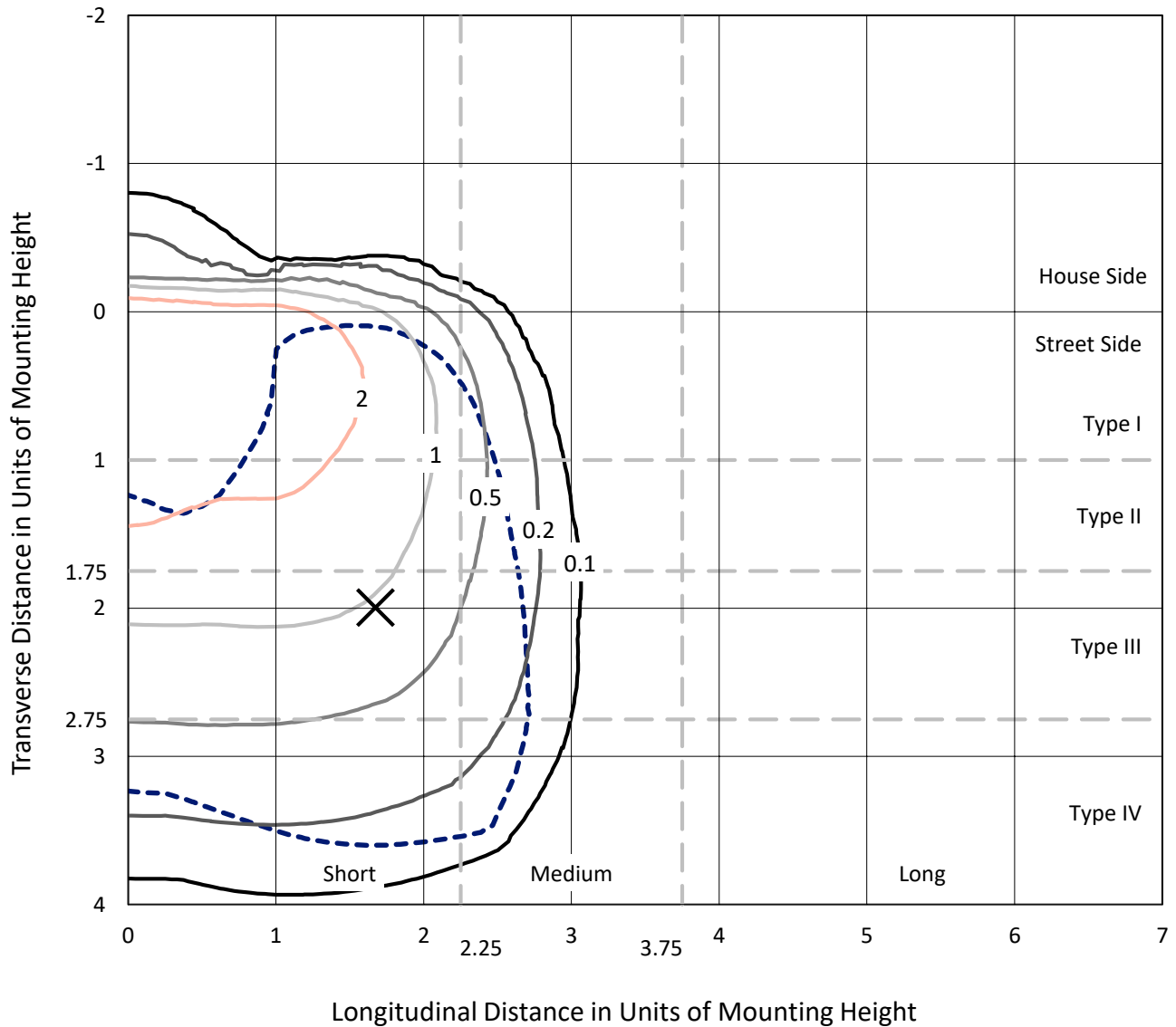


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

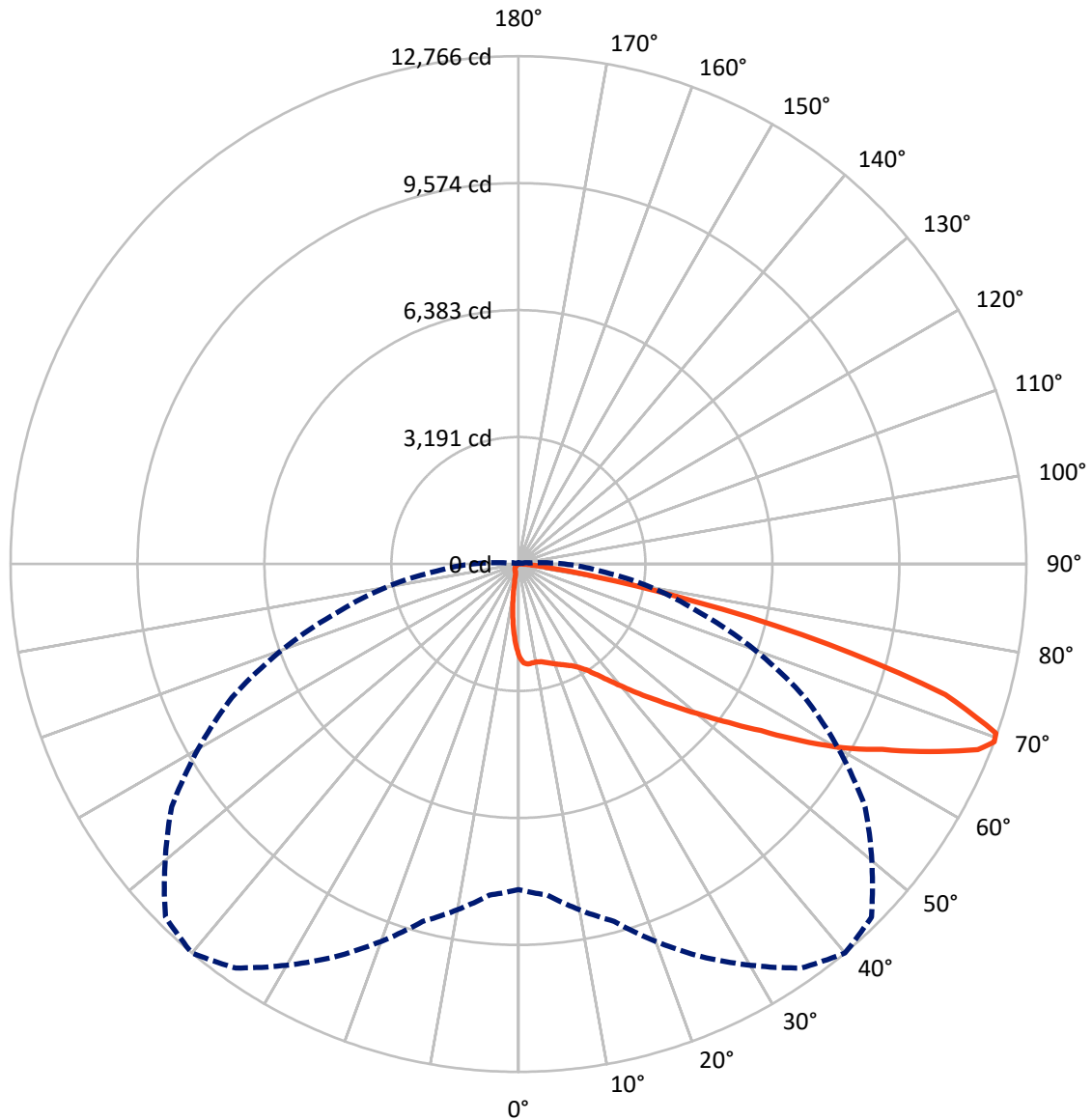


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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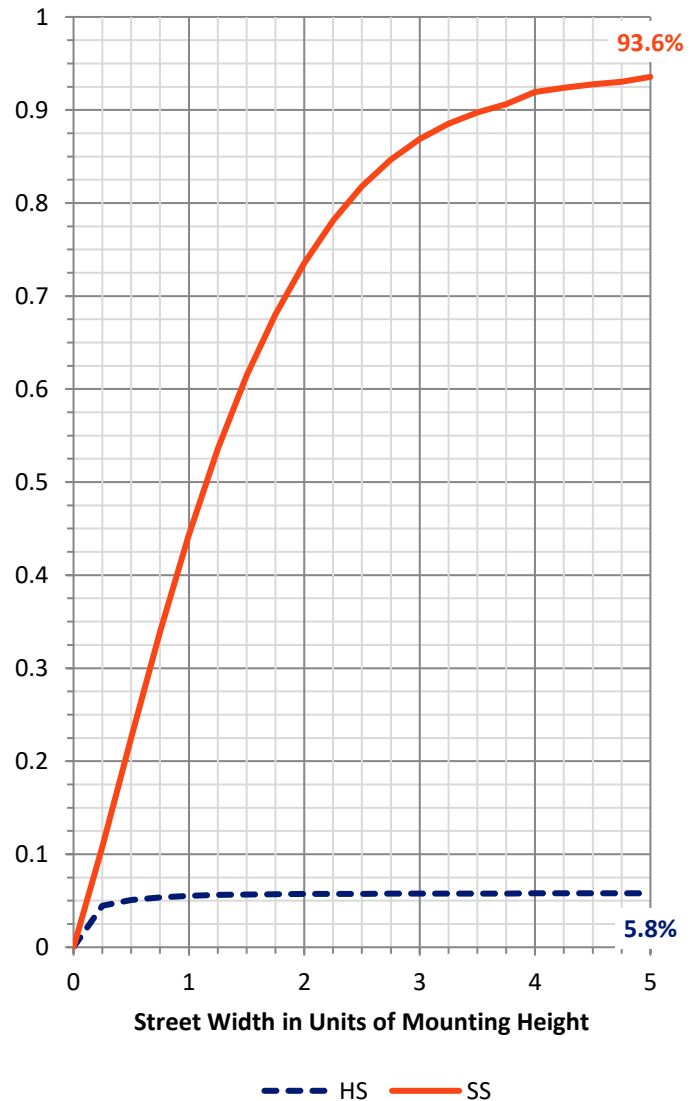
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	908.9	0.0	908.9
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	14626.1	0.0	14626.1
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	15535.0	0.0	15535.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.2	1.2
10°-20°	462.8	3.0
20°-30°	779.5	5.0
30°-40°	1276.1	8.2
40°-50°	2209.5	14.2
50°-60°	3480.1	22.4
60°-70°	4544.9	29.3
70°-80°	2340.8	15.1
80°-90°	253.2	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°	15535.0	100.0
0°-180°	15535.0	100.0



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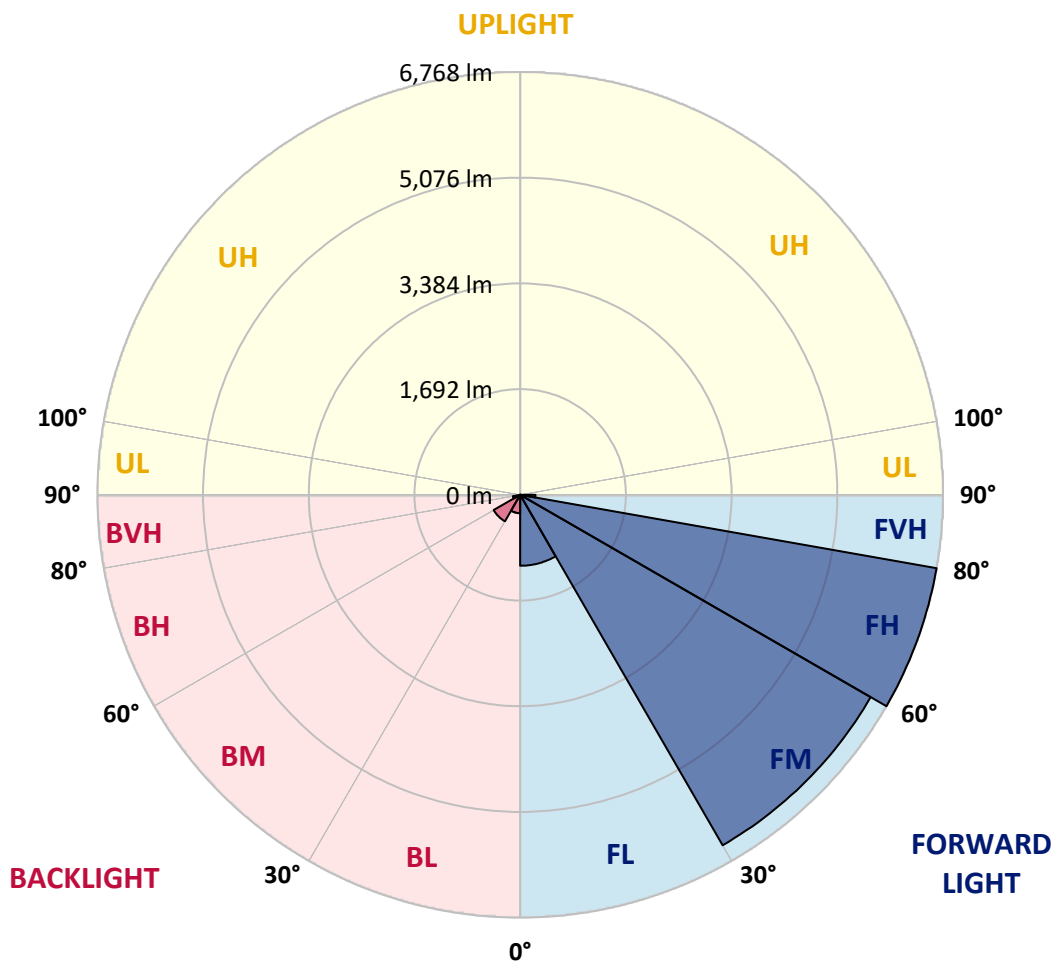
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1136.1	7.3			
FM	(30°-60°)	6477.1	41.7			
FH	(60°-80°)	6767.7	43.6			G3/7500
FVH	(80°-90°)	245.3	1.6			G3/500
BL	(0°-30°)	294.4	1.9	B1/500		
BM	(30°-60°)	488.5	3.1	B1/1000		
BH	(60°-80°)	118.0	0.8	B1/500		G1/500
BVH	(80°-90°)	7.9	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°	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0
2.5°	2548.5	2534.6	2526.3	2515.2	2501.3	2489.3	2484.7	2450.5	2418.1	2373.7	2322.9
5°	2595.6	2591.0	2576.2	2561.4	2544.8	2526.3	2516.1	2475.4	2429.2	2364.5	2275.7
7.5°	2600.3	2594.7	2576.2	2555.9	2532.8	2510.6	2493.0	2452.3	2409.8	2344.1	2235.9
10°	2592.9	2586.4	2572.5	2550.3	2521.7	2500.4	2482.8	2444.0	2407.9	2348.8	2228.5
12.5°	2584.5	2578.1	2571.6	2560.5	2535.5	2520.7	2505.9	2469.0	2436.6	2386.7	2255.4
15°	2592.9	2589.2	2596.6	2591.9	2578.1	2565.1	2550.3	2517.0	2487.5	2445.8	2304.4
17.5°	2628.0	2628.0	2651.1	2653.9	2641.0	2622.5	2601.2	2567.9	2542.9	2507.8	2362.6
20°	2710.3	2707.5	2737.1	2742.7	2711.2	2682.6	2651.1	2610.4	2591.0	2568.8	2420.0
22.5°	2851.8	2838.8	2856.4	2850.9	2788.9	2744.5	2705.7	2655.8	2645.6	2635.4	2483.8
25°	3035.8	3028.4	3040.4	2985.9	2876.8	2816.7	2770.4	2714.0	2714.0	2724.2	2555.9
27.5°	3303.0	3275.3	3234.6	3138.4	2974.8	2898.0	2848.1	2788.0	2803.7	2841.6	2651.1
30°	3576.8	3546.2	3452.8	3304.9	3094.1	3013.6	2955.4	2892.5	2929.5	2998.8	2778.7
32.5°	3846.8	3812.6	3680.3	3493.5	3265.1	3184.7	3128.3	3058.9	3120.9	3237.4	2965.5
35°	4108.5	4077.9	3925.4	3705.3	3492.6	3426.0	3374.2	3314.1	3393.7	3556.4	3229.1
37.5°	4402.5	4369.2	4183.4	3944.8	3769.1	3721.0	3683.1	3623.0	3761.7	4000.3	3596.2
40°	4764.1	4707.7	4457.1	4219.4	4089.0	4065.9	4040.0	4031.7	4247.2	4577.3	4085.3
42.5°	5178.3	5085.9	4743.7	4508.9	4440.4	4457.1	4450.6	4487.6	4854.7	5294.9	4680.9
45°	5592.6	5473.3	5062.8	4817.7	4827.0	4885.2	4921.3	5069.2	5615.7	6117.8	5321.7
47.5°	5944.0	5826.6	5368.8	5151.5	5262.5	5377.2	5475.2	5755.4	6398.0	6927.9	5820.1
50°	6244.5	6133.6	5693.4	5518.6	5768.3	5953.2	6112.3	6527.5	7239.5	7544.7	6169.6
52.5°	6490.5	6416.5	6030.0	5939.4	6346.2	6617.2	6850.2	7347.7	7984.8	8045.9	6441.5
55°	6730.0	6677.3	6391.6	6439.6	7025.0	7393.9	7688.9	8217.9	8626.6	8463.8	6702.3
57.5°	7005.6	6957.5	6804.0	7074.0	7917.3	8381.5	8703.3	8989.1	9191.6	8891.0	6948.2
60°	7286.7	7258.9	7262.6	7778.6	8941.9	9387.6	9565.1	9639.1	9746.4	9293.3	6962.1
62.5°	7554.8	7607.5	7786.9	8562.8	9923.0	10265.1	10354.8	10427.9	10302.1	9357.1	6432.2
65°	8008.9	8094.9	8523.0	9612.3	11002.1	11368.3	11460.8	11210.2	10390.0	8532.3	5232.0
67.5°	8230.8	8388.0	9151.8	10590.6	12048.9	12455.8	12421.6	11261.1	9323.8	6506.2	3357.6
69°	8184.6	8351.9	9297.0	10890.2	12396.6	12765.5	12548.2	10638.7	7943.2	4713.2	2061.2
70°	8001.5	8170.7	9222.1	10879.2	12441.0	12733.2	12313.4	9870.3	6716.1	3446.4	1289.0
72.5°	6681.9	6828.0	8187.3	9833.3	11460.8	11223.1	10301.2	6838.2	3272.5	938.6	290.4
75°	4113.1	4194.5	5874.6	7407.8	8656.2	8045.9	6863.2	3402.0	975.6	265.4	160.9
77.5°	2173.1	2210.0	3216.1	4366.5	5487.2	4540.3	3517.6	1327.0	449.4	166.4	116.5
80°	1284.4	1312.2	1732.0	1996.4	2374.6	1983.5	1406.5	814.7	321.8	104.5	103.6
82.5°	735.1	752.7	1255.7	1109.6	935.8	798.9	700.0	772.1	193.3	70.3	107.3
85°	270.0	273.7	706.5	844.3	556.7	331.0	347.7	639.9	51.8	44.4	84.1
87.5°	125.8	123.0	363.4	516.9	325.5	209.9	270.9	140.6	20.3	28.7	23.1
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°	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0
2.5°	2293.3	2259.1	2197.1	2133.3	2068.6	2018.6	1969.6	1930.8	1917.8	1893.8	1895.6
5°	2223.0	2160.1	2030.7	1899.3	1762.5	1649.7	1543.3	1457.3	1415.7	1373.2	1373.2
7.5°	2162.0	2070.4	1867.9	1654.3	1433.3	1247.4	1080.1	954.3	884.9	829.5	828.5
10°	2138.8	2014.9	1732.0	1425.9	1118.0	864.6	665.8	538.2	472.5	430.0	428.1
12.5°	2149.0	1995.5	1627.5	1215.1	828.5	555.7	385.6	303.3	275.6	262.6	262.6
15°	2178.6	1990.0	1523.0	1008.9	585.3	347.7	256.1	234.0	232.1	232.1	232.1
17.5°	2214.7	1991.8	1415.7	808.2	398.5	248.7	221.0	218.2	220.1	220.1	220.1
20°	2251.7	1992.7	1300.1	622.3	281.1	216.4	208.1	207.1	209.0	209.0	209.9
22.5°	2297.0	1997.4	1184.5	465.1	232.1	204.4	197.9	197.9	198.8	198.8	197.9
25°	2348.8	2006.6	1064.3	344.9	211.8	196.0	190.5	189.6	190.5	189.6	188.6
27.5°	2413.5	2019.6	930.3	270.0	202.5	187.7	183.1	183.1	182.2	181.2	180.3
30°	2494.9	2034.4	779.5	229.3	193.3	180.3	175.7	174.8	173.8	172.0	172.0
32.5°	2618.8	2066.7	630.6	208.1	183.1	170.1	166.4	166.4	164.6	162.7	161.8
35°	2809.3	2130.5	497.5	195.1	172.0	159.0	154.4	154.4	152.6	151.7	150.7
37.5°	3072.8	2227.6	386.5	183.1	160.9	147.0	142.4	141.5	139.6	137.8	136.9
40°	3423.3	2347.8	304.2	172.0	149.8	135.0	131.3	129.5	125.8	123.0	123.0
42.5°	3863.4	2484.7	246.9	160.0	136.9	123.9	121.1	118.4	111.9	109.1	108.2
45°	4323.9	2607.7	209.0	146.1	123.9	112.8	111.0	106.3	98.0	95.2	95.2
47.5°	4655.9	2636.3	184.0	133.2	111.9	100.8	99.9	91.5	84.1	82.3	81.4
50°	4863.0	2579.9	163.7	120.2	100.8	89.7	86.9	76.8	72.1	70.3	69.4
52.5°	5002.7	2479.1	147.0	109.1	90.6	79.5	73.1	65.7	62.0	60.1	60.1
55°	5114.5	2336.7	130.4	98.9	82.3	71.2	62.0	56.4	52.7	50.9	50.9
57.5°	5146.0	2143.5	113.7	90.6	74.0	62.9	52.7	49.0	44.4	43.5	43.5
60°	4917.6	1794.9	100.8	80.4	66.6	54.6	46.2	41.6	37.0	36.1	35.1
62.5°	4315.6	1388.9	88.8	71.2	58.3	47.2	39.8	34.2	30.5	30.5	30.5
65°	3291.9	931.2	77.7	62.0	50.9	39.8	34.2	27.7	25.9	25.9	26.8
67.5°	1970.5	506.7	66.6	52.7	43.5	33.3	28.7	24.0	23.1	24.0	24.0
69°	1155.0	297.8	60.1	47.2	37.9	29.6	25.0	21.3	23.1	24.0	24.0
70°	712.9	200.7	55.5	42.5	34.2	26.8	23.1	20.3	22.2	23.1	23.1
72.5°	198.8	103.6	44.4	33.3	27.7	22.2	18.5	18.5	21.3	22.2	22.2
75°	129.5	76.8	34.2	25.0	21.3	17.6	15.7	17.6	20.3	21.3	21.3
77.5°	107.3	62.9	27.7	20.3	17.6	16.6	14.8	15.7	18.5	19.4	19.4
80°	98.0	44.4	22.2	18.5	15.7	14.8	13.9	12.9	16.6	17.6	17.6
82.5°	93.4	35.1	19.4	16.6	14.8	12.9	12.0	12.9	14.8	15.7	16.6
85°	58.3	23.1	17.6	15.7	12.9	12.0	12.0	12.0	13.9	14.8	14.8
87.5°	21.3	18.5	15.7	12.9	11.1	11.1	11.1	11.1	12.0	13.9	13.9
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)