

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: P200128

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200128  
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: GPC-AF-02-LED-E1-SL3-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA 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: 10856.5 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

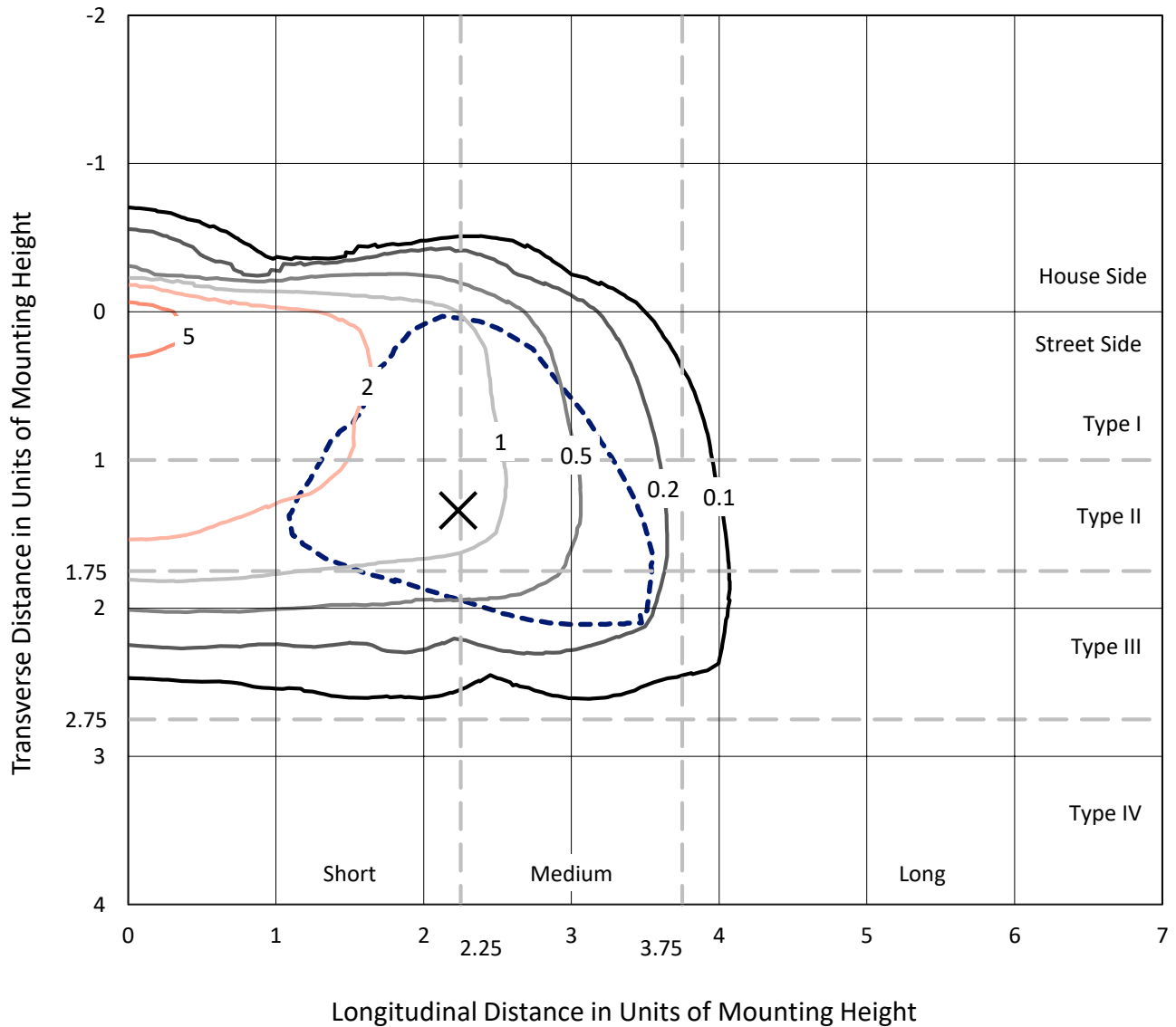
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

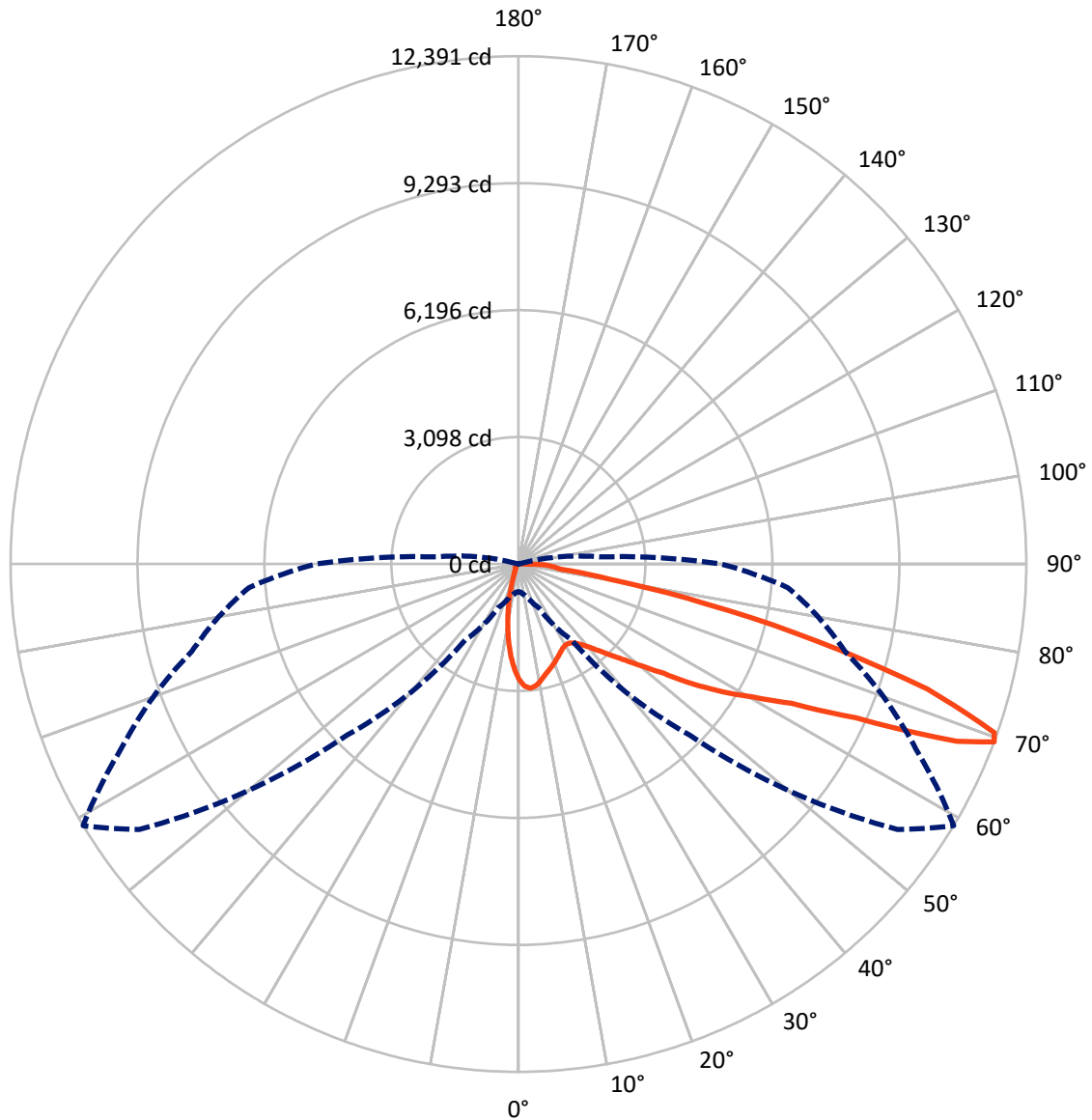
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 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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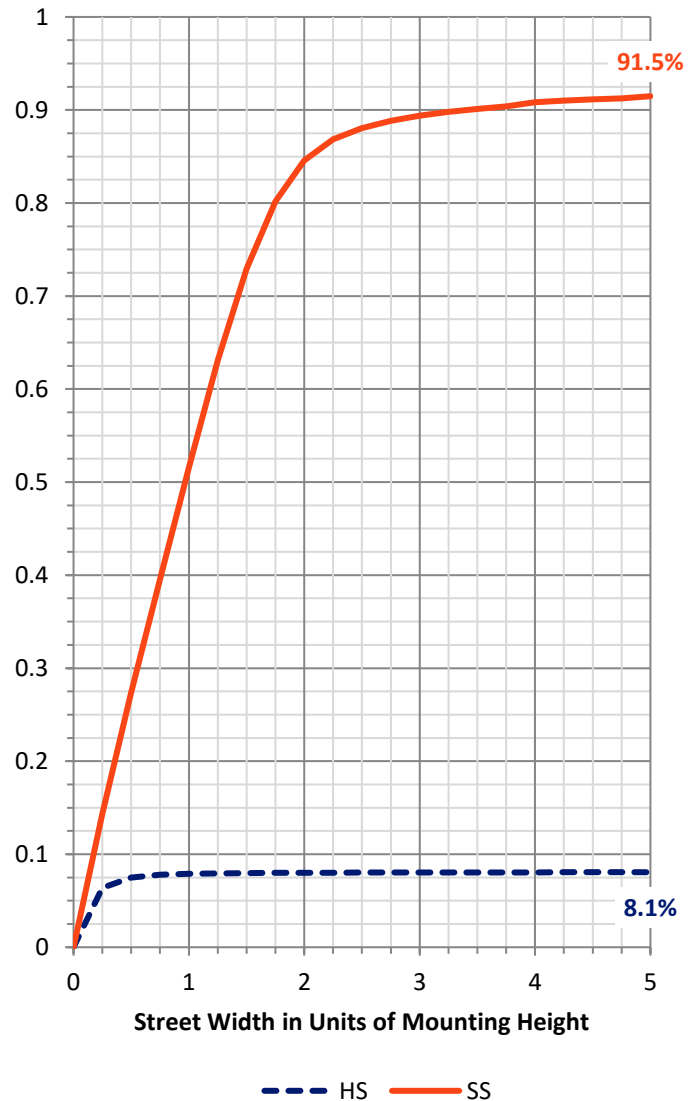
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	884.1	0.0	884.1
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	9972.4	0.0	9972.4
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	10856.5	0.0	10856.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.4	2.1
10°-20°	473.9	4.4
20°-30°	637.8	5.9
30°-40°	926.0	8.5
40°-50°	1541.8	14.2
50°-60°	2405.2	22.2
60°-70°	2976.3	27.4
70°-80°	1508.3	13.9
80°-90°	157.8	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°	10856.5	100.0
0°-180°	10856.5	100.0



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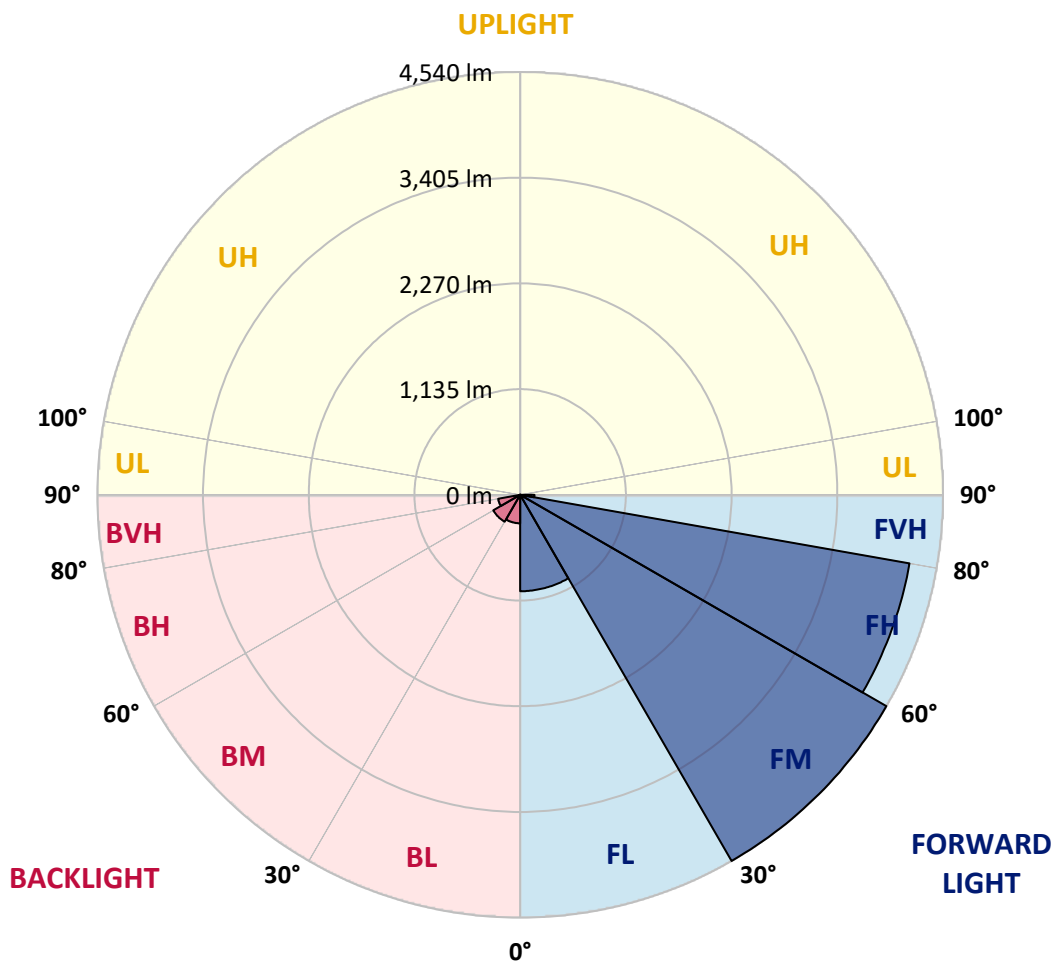
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.1	9.5			
FM (30°-60°)	4539.9	41.8			
FH (60°-80°)	4244.5	39.1			G2/5000
FVH (80°-90°)	153.0	1.4			G2/225
BL (0°-30°)	306.0	2.8	B1/500		
BM (30°-60°)	333.1	3.1	B1/1000		
BH (60°-80°)	240.1	2.2	B1/500		G1/500
BVH (80°-90°)	4.9	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°	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8
2.5°	3097.2	3096.0	3082.5	3076.3	3065.3	3041.9	3005.7	2986.7	2955.9	2902.5	2830.7
5°	3069.0	3083.7	3091.7	3092.3	3100.3	3091.7	3059.1	3043.2	3000.8	2914.8	2785.9
7.5°	2877.4	2882.9	2905.6	2925.2	2963.3	2999.6	3011.3	3004.5	2979.3	2887.2	2715.9
10°	2672.4	2677.9	2704.9	2730.7	2782.2	2838.1	2897.0	2909.3	2919.7	2847.9	2648.4
12.5°	2495.5	2501.0	2528.7	2562.5	2622.6	2691.4	2782.8	2803.1	2849.1	2810.5	2594.4
15°	2343.3	2345.7	2372.7	2414.5	2486.3	2574.8	2678.5	2711.0	2781.6	2784.1	2547.1
17.5°	2213.8	2219.9	2236.5	2276.4	2354.9	2464.2	2585.2	2631.8	2714.7	2762.0	2501.0
20°	2134.6	2140.7	2140.1	2162.2	2232.8	2349.4	2491.8	2547.8	2648.4	2739.3	2459.9
22.5°	2119.2	2119.2	2103.3	2100.2	2142.0	2239.5	2394.8	2463.0	2588.9	2729.4	2431.0
25°	2173.9	2171.4	2131.5	2099.0	2100.8	2159.1	2300.9	2381.9	2538.6	2736.2	2415.7
27.5°	2289.3	2286.2	2235.9	2173.9	2124.2	2123.5	2229.7	2316.9	2498.6	2768.1	2421.8
30°	2448.8	2447.6	2393.0	2315.0	2224.8	2142.0	2205.2	2284.4	2472.8	2825.8	2436.0
32.5°	2623.3	2621.4	2580.3	2497.9	2383.8	2224.8	2231.0	2297.2	2480.1	2902.5	2470.3
35°	2808.0	2804.9	2787.1	2715.3	2589.5	2377.6	2315.7	2367.2	2526.9	3017.4	2537.9
37.5°	3008.2	3011.3	3024.1	2955.3	2823.3	2592.0	2457.4	2492.4	2620.8	3173.3	2647.8
40°	3303.4	3302.8	3307.1	3216.9	3089.8	2854.0	2655.8	2666.8	2777.9	3380.1	2814.8
42.5°	3839.3	3801.9	3688.4	3504.2	3376.5	3153.7	2905.6	2893.9	2970.0	3636.2	3048.7
45°	4559.5	4479.7	4185.0	3832.0	3668.7	3491.3	3213.2	3175.8	3224.2	3943.8	3337.2
47.5°	5178.9	5096.0	4679.2	4173.3	3978.8	3811.7	3573.6	3506.1	3522.0	4288.1	3703.1
50°	5389.5	5349.0	4984.9	4470.5	4278.9	4215.1	3991.7	3909.4	3886.6	4686.5	4127.3
52.5°	5316.5	5313.4	5070.9	4663.2	4554.0	4632.5	4517.8	4422.6	4339.1	5106.5	4558.9
55°	5199.1	5214.5	5105.9	4832.1	4828.4	5013.8	5237.2	5158.0	4916.2	5562.6	4930.9
57.5°	4875.7	4941.4	5086.2	5151.3	5302.4	5492.0	5836.4	5883.1	5597.0	5911.9	5239.7
60°	3956.1	4100.3	4574.2	5197.3	5913.2	6385.9	6559.6	6599.5	6155.6	6202.4	5656.5
62.5°	2808.0	2955.3	3556.4	4610.4	5922.4	7560.3	7637.0	7480.4	6770.8	6632.6	6375.4
65°	1490.5	1604.2	2095.3	3328.0	5134.7	7832.8	9521.1	9054.5	7856.2	7479.2	7304.3
67.5°	762.5	796.9	992.1	1628.7	3530.0	6957.4	11209.9	11538.4	9726.7	8319.0	7259.5
69°	674.6	695.0	824.5	1177.5	2260.4	5892.9	11292.3	12391.1	10705.9	8249.1	6597.0
70°	653.2	671.0	788.9	1065.7	1766.8	4942.0	10977.3	12316.2	10956.4	7982.6	6102.2
72.5°	554.3	569.7	702.4	941.7	1435.9	2453.1	8917.0	10436.5	9831.7	6649.9	4417.1
75°	370.8	421.1	674.0	882.8	1335.9	1393.6	5878.8	7541.8	7005.9	4485.2	2300.9
77.5°	89.0	95.7	190.3	702.4	1221.7	1226.6	3023.5	4688.4	3824.0	1598.6	543.9
80°	47.9	46.0	53.4	139.3	1137.5	1151.1	1361.0	2275.8	1365.3	265.3	179.2
82.5°	33.8	31.9	34.4	58.3	357.9	1048.5	984.7	1030.1	566.0	101.9	80.4
85°	12.3	11.7	19.0	52.8	112.3	602.8	1011.7	849.7	458.6	46.6	58.9
87.5°	4.3	3.7	7.4	28.8	34.4	256.7	624.3	642.1	180.4	28.2	27.6
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°	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8
2.5°	2800.6	2762.6	2692.6	2620.8	2554.5	2474.6	2434.7	2395.4	2378.9	2372.7	2343.9
5°	2719.6	2655.2	2506.5	2357.4	2219.9	2073.8	1977.4	1900.0	1854.6	1832.5	1797.5
7.5°	2615.9	2510.2	2285.0	2054.7	1840.5	1629.4	1472.7	1352.4	1269.6	1229.7	1193.5
10°	2515.1	2374.6	2054.1	1740.4	1449.4	1169.5	953.4	796.9	696.8	650.7	621.2
12.5°	2424.9	2242.6	1831.3	1434.1	1068.8	741.0	521.2	396.6	334.6	313.1	302.7
15°	2344.5	2121.1	1620.8	1143.0	723.8	423.6	284.9	242.5	232.7	232.7	231.5
17.5°	2268.4	2001.9	1417.5	869.9	454.3	259.1	216.7	211.1	211.1	213.6	213.6
20°	2195.4	1888.4	1221.1	624.3	286.1	205.6	195.8	194.6	195.8	198.9	198.9
22.5°	2132.8	1785.3	1037.5	428.5	212.4	185.4	180.4	178.6	179.2	181.1	182.3
25°	2086.1	1698.1	864.4	290.4	182.9	168.8	163.3	160.2	157.7	157.7	159.0
27.5°	2056.5	1624.4	696.8	211.1	164.5	153.4	144.8	139.9	134.4	131.3	132.6
30°	2035.1	1554.4	539.6	172.5	147.3	136.3	125.2	117.2	109.3	105.6	106.8
32.5°	2027.1	1497.9	403.3	152.2	132.0	119.7	106.2	95.7	87.2	84.1	84.7
35°	2048.6	1453.1	295.3	137.5	119.7	104.3	89.0	77.3	70.6	68.7	69.4
37.5°	2105.1	1429.2	221.0	125.2	108.6	91.5	74.3	63.2	58.9	58.9	59.5
40°	2211.9	1428.6	177.4	116.6	98.8	79.2	61.4	53.4	50.9	52.2	52.8
42.5°	2367.8	1461.1	154.7	108.6	90.2	67.5	50.9	45.4	44.8	46.0	46.6
45°	2580.9	1520.6	142.4	101.9	81.0	56.5	43.0	39.3	39.3	41.1	41.7
47.5°	2841.8	1607.9	132.0	95.1	71.8	47.3	36.8	34.4	35.0	36.8	37.4
50°	3156.1	1717.7	121.5	87.8	65.1	39.3	31.9	30.1	30.7	33.1	33.8
52.5°	3514.0	1865.7	112.9	81.0	56.5	32.5	27.0	25.8	27.0	29.5	30.1
55°	3820.9	1998.2	102.5	75.5	45.4	27.0	22.1	22.1	23.3	26.4	27.0
57.5°	4116.3	2137.0	93.3	65.1	35.6	21.5	18.4	19.0	20.9	23.9	24.6
60°	4549.7	2372.1	82.2	54.6	27.0	17.2	15.3	16.0	18.4	21.5	22.1
62.5°	5285.8	2730.1	71.2	45.4	20.9	13.5	12.3	13.5	16.6	20.3	20.9
65°	5950.0	2875.5	58.3	38.1	16.0	10.4	10.4	12.3	16.0	19.6	20.3
67.5°	5579.8	2420.6	45.4	30.1	12.3	8.0	8.6	11.7	15.3	19.6	20.3
69°	4934.6	1979.2	38.7	23.9	10.4	7.4	8.0	11.7	15.3	19.0	19.6
70°	4431.8	1671.1	34.4	20.3	9.2	7.4	8.0	11.0	15.3	19.0	19.6
72.5°	2968.2	902.4	27.6	14.7	8.6	6.8	6.8	11.0	14.7	18.4	19.0
75°	1275.7	249.3	22.1	10.4	7.4	6.1	6.1	10.4	14.1	17.8	19.0
77.5°	233.3	63.2	17.8	9.2	7.4	6.1	5.5	9.8	13.5	17.2	17.8
80°	92.7	31.3	14.1	8.0	6.8	5.5	4.9	9.2	12.9	16.6	17.2
82.5°	55.9	17.8	11.7	7.4	6.8	4.9	4.3	8.0	12.3	16.0	16.6
85°	45.4	12.3	9.2	7.4	6.1	4.9	3.7	7.4	11.0	15.3	16.0
87.5°	22.1	8.6	8.6	6.8	6.1	4.9	3.7	6.8	10.4	14.7	15.3
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)