

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: P300979

Luminaire Tested: **GLNA-AF-04-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300979  
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: GLNA-AF-04-LED-E1-SL4-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14487.6 lumens  
Efficiency: N/A  
Efficacy: 112.3 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

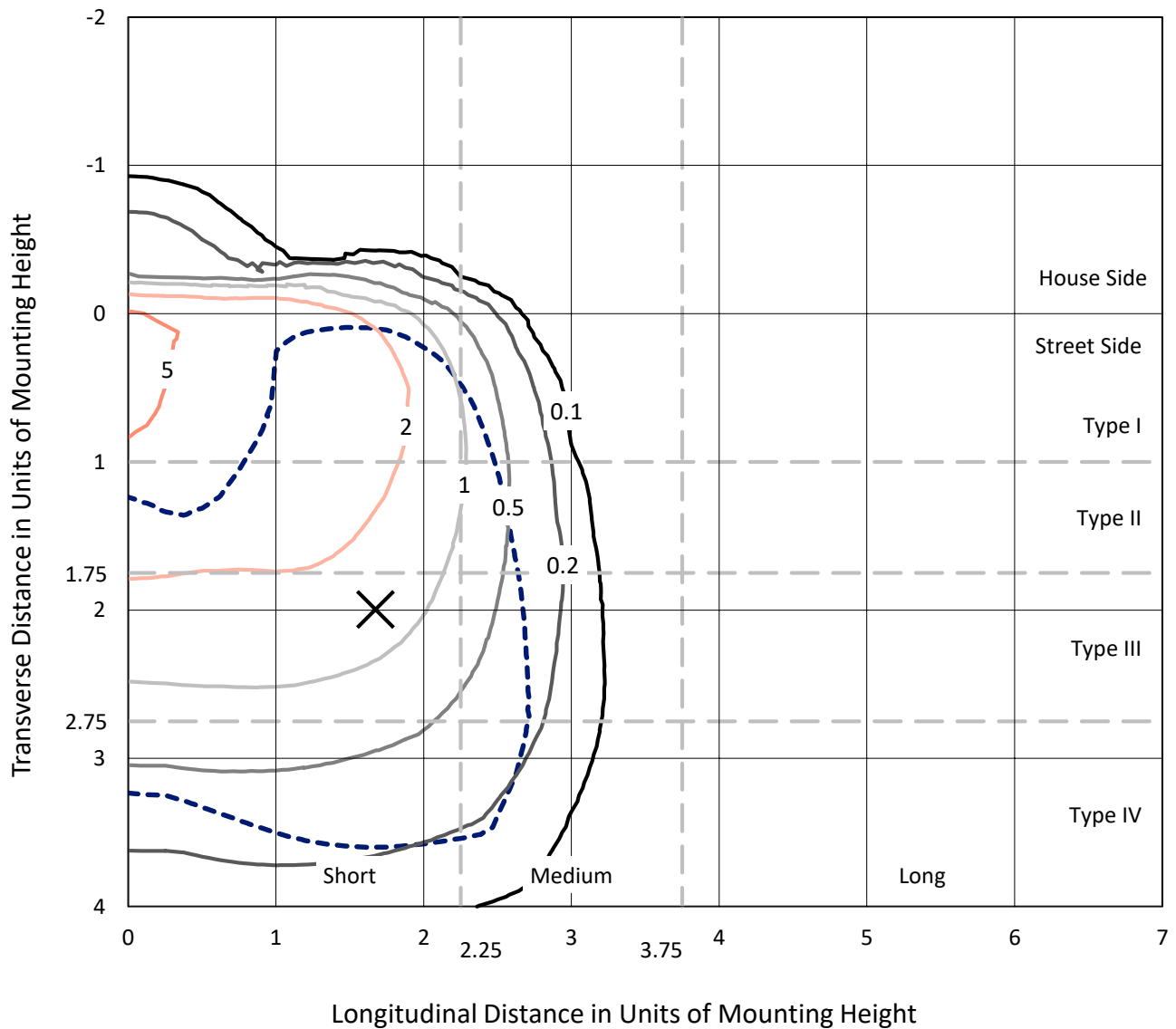
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

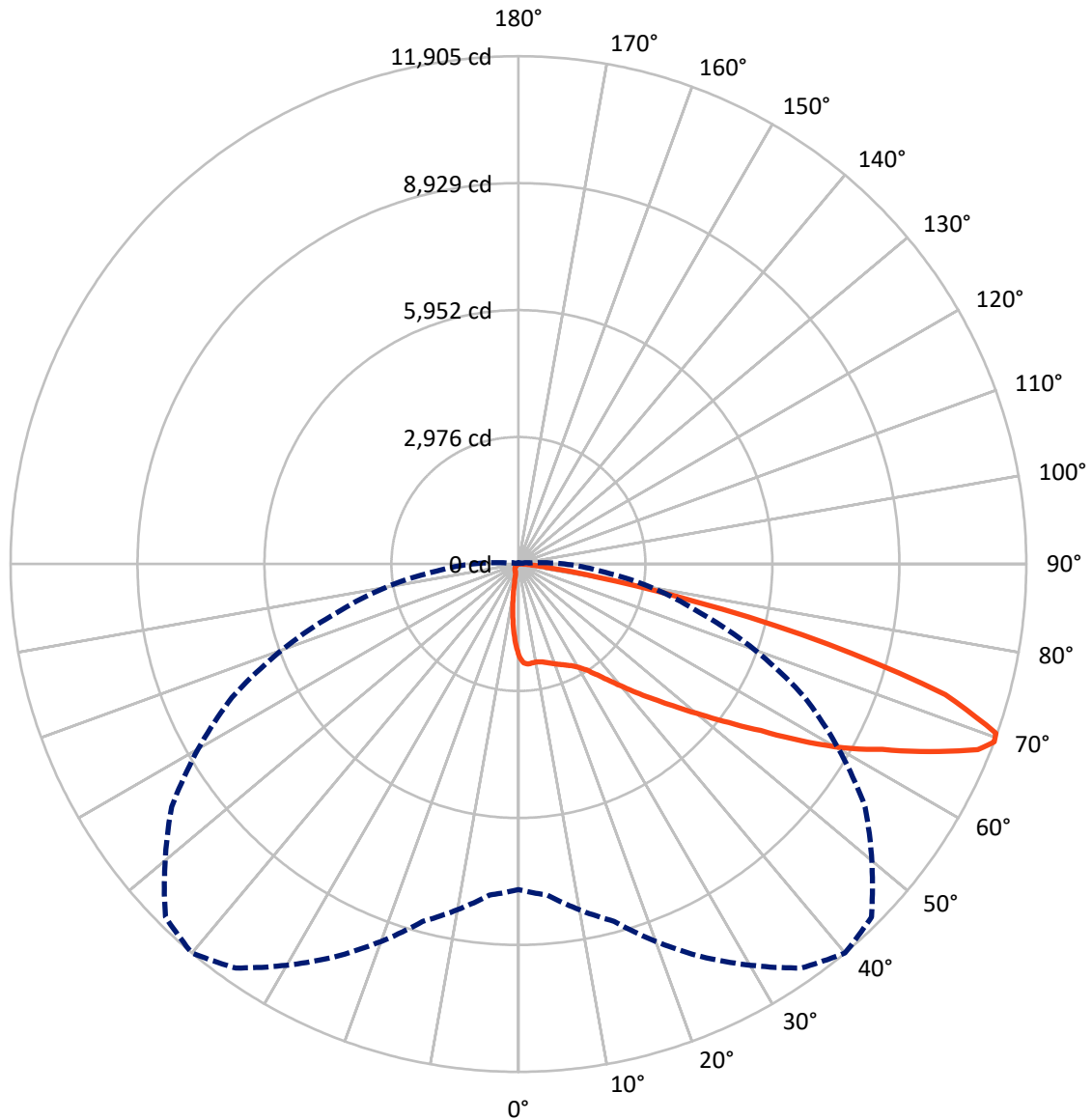
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 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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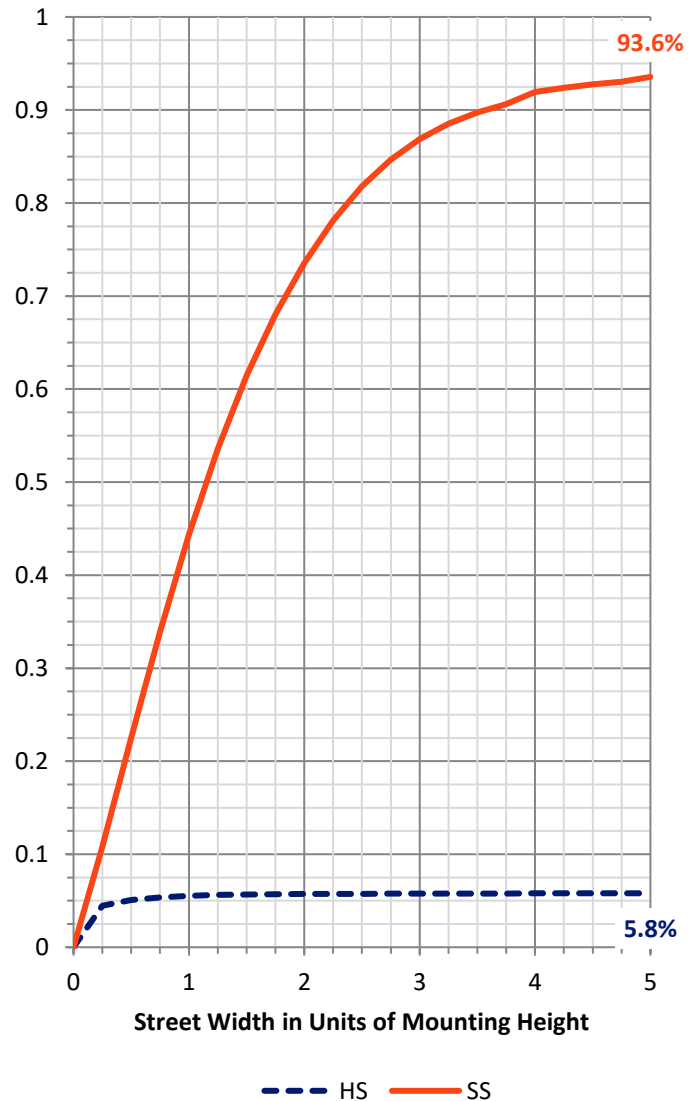
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	847.6	0.0	847.6
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	13640.0	0.0	13640.0
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	14487.6	0.0	14487.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	1.2
10°-20°	431.6	3.0
20°-30°	726.9	5.0
30°-40°	1190.0	8.2
40°-50°	2060.5	14.2
50°-60°	3245.5	22.4
60°-70°	4238.5	29.3
70°-80°	2183.0	15.1
80°-90°	236.1	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°	14487.6	100.0
0°-180°	14487.6	100.0



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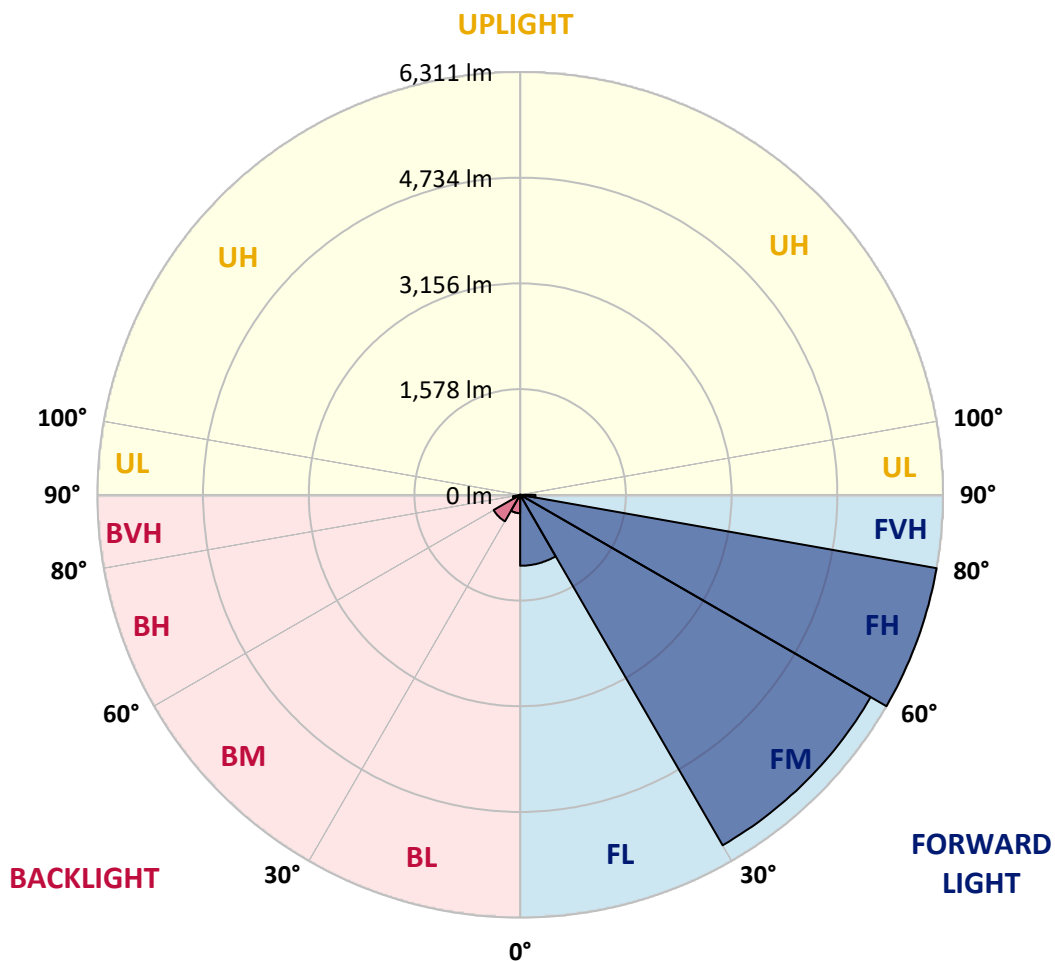
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1059.5	7.3			
FM	(30°-60°)	6040.4	41.7			
FH	(60°-80°)	6311.4	43.6			G3/7500
FVH	(80°-90°)	228.7	1.6			G3/500
BL	(0°-30°)	274.6	1.9	B1/500		
BM	(30°-60°)	455.6	3.1	B1/1000		
BH	(60°-80°)	110.1	0.8	B1/500		G1/500
BVH	(80°-90°)	7.4	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°	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5
2.5°	2376.7	2363.7	2356.0	2345.6	2332.7	2321.5	2317.2	2285.3	2255.1	2213.7	2166.3
5°	2420.6	2416.3	2402.5	2388.7	2373.2	2356.0	2346.5	2308.5	2265.4	2205.1	2122.3
7.5°	2425.0	2419.8	2402.5	2383.6	2362.0	2341.3	2324.9	2287.0	2247.3	2186.1	2085.2
10°	2418.1	2412.0	2399.1	2378.4	2351.7	2331.8	2315.4	2279.2	2245.6	2190.4	2078.3
12.5°	2410.3	2404.3	2398.2	2387.9	2364.6	2350.8	2337.0	2302.5	2272.3	2225.8	2103.3
15°	2418.1	2414.6	2421.5	2417.2	2404.3	2392.2	2378.4	2347.3	2319.8	2280.9	2149.0
17.5°	2450.8	2450.8	2472.4	2475.0	2462.9	2445.7	2425.8	2394.8	2371.5	2338.7	2203.3
20°	2527.6	2525.0	2552.6	2557.8	2528.4	2501.7	2472.4	2434.4	2416.3	2395.6	2256.8
22.5°	2659.5	2647.5	2663.8	2658.7	2600.9	2559.5	2523.3	2476.7	2467.2	2457.7	2316.3
25°	2831.1	2824.2	2835.4	2784.6	2682.8	2626.8	2583.6	2531.0	2531.0	2540.5	2383.6
27.5°	3080.4	3054.5	3016.5	2926.9	2774.2	2702.6	2656.1	2600.0	2614.7	2650.0	2472.4
30°	3335.6	3307.2	3220.1	3082.1	2885.5	2810.4	2756.1	2697.5	2732.0	2796.6	2591.4
32.5°	3587.4	3555.5	3432.2	3258.0	3045.0	2970.0	2917.4	2852.7	2910.5	3019.1	2765.6
35°	3831.5	3803.0	3660.7	3455.5	3257.1	3195.0	3146.8	3090.7	3164.9	3316.6	3011.4
37.5°	4105.7	4074.7	3901.3	3678.8	3515.0	3470.1	3434.8	3378.7	3508.1	3730.6	3353.7
40°	4442.9	4390.3	4156.6	3935.0	3813.4	3791.8	3767.7	3759.9	3960.8	4268.7	3809.9
42.5°	4829.2	4743.0	4423.9	4204.9	4141.1	4156.6	4150.5	4185.0	4527.4	4937.9	4365.3
45°	5215.6	5104.3	4721.4	4492.9	4501.5	4555.9	4589.5	4727.5	5237.1	5705.4	4962.9
47.5°	5543.3	5433.7	5006.9	4804.2	4907.7	5014.6	5106.0	5367.3	5966.7	6460.8	5427.7
50°	5823.5	5720.0	5309.6	5146.6	5379.4	5551.9	5700.2	6087.4	6751.4	7036.0	5753.7
52.5°	6052.9	5983.9	5623.5	5538.9	5918.4	6171.1	6388.4	6852.3	7446.5	7503.4	6007.2
55°	6276.3	6227.1	5960.6	6005.5	6551.4	6895.4	7170.5	7663.8	8045.0	7893.2	6250.4
57.5°	6533.3	6488.4	6345.3	6597.1	7383.5	7816.4	8116.5	8383.0	8571.9	8291.6	6479.8
60°	6795.4	6769.5	6773.0	7254.2	8339.0	8754.7	8920.3	8989.3	9089.3	8666.7	6492.7
62.5°	7045.5	7094.6	7261.9	7985.5	9254.0	9573.1	9656.7	9724.9	9607.6	8726.2	5998.6
65°	7468.9	7549.1	7948.4	8964.2	10260.4	10601.9	10688.1	10454.4	9689.5	7957.0	4879.2
67.5°	7675.9	7822.5	8534.8	9876.6	11236.6	11616.0	11584.1	10501.8	8695.2	6067.6	3131.2
69°	7632.8	7788.9	8670.2	10156.0	11560.8	11904.9	11702.2	9921.5	7407.7	4395.5	1922.2
70°	7462.0	7619.8	8600.3	10145.7	11602.2	11874.7	11483.2	9204.8	6263.3	3214.0	1202.1
72.5°	6231.4	6367.7	7635.3	9170.4	10688.1	10466.5	9606.7	6377.2	3051.9	875.3	270.8
75°	3835.8	3911.7	5478.6	6908.4	8072.6	7503.4	6400.4	3172.6	909.8	247.5	150.1
77.5°	2026.5	2061.0	2999.3	4072.1	5117.3	4234.2	3280.4	1237.5	419.1	155.2	108.7
80°	1197.8	1223.7	1615.2	1861.8	2214.5	1849.8	1311.7	759.7	300.1	97.4	96.6
82.5°	685.6	702.0	1171.1	1034.8	872.7	745.1	652.8	720.1	180.2	65.5	100.0
85°	251.8	255.3	658.8	787.3	519.1	308.7	324.2	596.8	48.3	41.4	78.5
87.5°	117.3	114.7	338.9	482.1	303.6	195.8	252.7	131.1	19.0	26.7	21.6
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°	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5
2.5°	2138.7	2106.7	2049.0	1989.5	1929.1	1882.5	1836.8	1800.6	1788.5	1766.1	1767.8
5°	2073.1	2014.5	1893.7	1771.3	1643.7	1538.5	1439.3	1359.1	1320.3	1280.6	1280.6
7.5°	2016.2	1930.8	1742.0	1542.8	1336.7	1163.3	1007.2	890.0	825.3	773.5	772.7
10°	1994.6	1879.1	1615.2	1329.8	1042.6	806.3	620.9	501.9	440.7	401.0	399.3
12.5°	2004.1	1861.0	1517.8	1133.1	772.7	518.3	359.6	282.9	257.0	244.9	244.9
15°	2031.7	1855.8	1420.3	940.8	545.9	324.2	238.9	218.2	216.5	216.5	216.5
17.5°	2065.4	1857.5	1320.3	753.7	371.7	232.0	206.1	203.5	205.2	205.2	205.2
20°	2099.9	1858.4	1212.5	580.4	262.2	201.8	194.0	193.2	194.9	194.9	195.8
22.5°	2142.1	1862.7	1104.7	433.8	216.5	190.6	184.5	184.5	185.4	185.4	184.5
25°	2190.4	1871.3	992.6	321.7	197.5	182.8	177.6	176.8	177.6	176.8	175.9
27.5°	2250.8	1883.4	867.5	251.8	188.9	175.1	170.7	170.7	169.9	169.0	168.2
30°	2326.7	1897.2	727.0	213.9	180.2	168.2	163.8	163.0	162.1	160.4	160.4
32.5°	2442.2	1927.4	588.1	194.0	170.7	158.7	155.2	155.2	153.5	151.8	150.9
35°	2619.9	1986.9	464.0	182.0	160.4	148.3	144.0	144.0	142.3	141.4	140.6
37.5°	2865.6	2077.4	360.5	170.7	150.1	137.1	132.8	131.9	130.2	128.5	127.6
40°	3192.5	2189.5	283.7	160.4	139.7	125.9	122.5	120.7	117.3	114.7	114.7
42.5°	3602.9	2317.2	230.3	149.2	127.6	115.6	113.0	110.4	104.3	101.8	100.9
45°	4032.4	2431.9	194.9	136.3	115.6	105.2	103.5	99.2	91.4	88.8	88.8
47.5°	4342.0	2458.6	171.6	124.2	104.3	94.0	93.1	85.4	78.5	76.8	75.9
50°	4535.2	2406.0	152.6	112.1	94.0	83.6	81.1	71.6	67.3	65.5	64.7
52.5°	4665.4	2312.0	137.1	101.8	84.5	74.2	68.1	61.2	57.8	56.1	56.1
55°	4769.7	2179.2	121.6	92.3	76.8	66.4	57.8	52.6	49.2	47.4	47.4
57.5°	4799.0	1999.0	106.1	84.5	69.0	58.6	49.2	45.7	41.4	40.5	40.5
60°	4586.0	1673.8	94.0	75.0	62.1	50.9	43.1	38.8	34.5	33.6	32.8
62.5°	4024.6	1295.3	82.8	66.4	54.3	44.0	37.1	31.9	28.5	28.5	28.5
65°	3070.0	868.4	72.4	57.8	47.4	37.1	31.9	25.9	24.1	24.1	25.0
67.5°	1837.7	472.6	62.1	49.2	40.5	31.0	26.7	22.4	21.6	22.4	22.4
69°	1077.1	277.7	56.1	44.0	35.4	27.6	23.3	19.8	21.6	22.4	22.4
70°	664.9	187.1	51.7	39.7	31.9	25.0	21.6	19.0	20.7	21.6	21.6
72.5°	185.4	96.6	41.4	31.0	25.9	20.7	17.2	17.2	19.8	20.7	20.7
75°	120.7	71.6	31.9	23.3	19.8	16.4	14.7	16.4	19.0	19.8	19.8
77.5°	100.0	58.6	25.9	19.0	16.4	15.5	13.8	14.7	17.2	18.1	18.1
80°	91.4	41.4	20.7	17.2	14.7	13.8	12.9	12.1	15.5	16.4	16.4
82.5°	87.1	32.8	18.1	15.5	13.8	12.1	11.2	12.1	13.8	14.7	15.5
85°	54.3	21.6	16.4	14.7	12.1	11.2	11.2	11.2	12.9	13.8	13.8
87.5°	19.8	17.2	14.7	12.1	10.3	10.3	10.3	10.3	11.2	12.9	12.9
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)