

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: P300985

Luminaire Tested: **GLNA-AF-05-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300985  
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-05-LED-E1-SL4-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(5) 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: 17950.5 lumens  
Efficiency: N/A  
Efficacy: 110.8 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 - G4

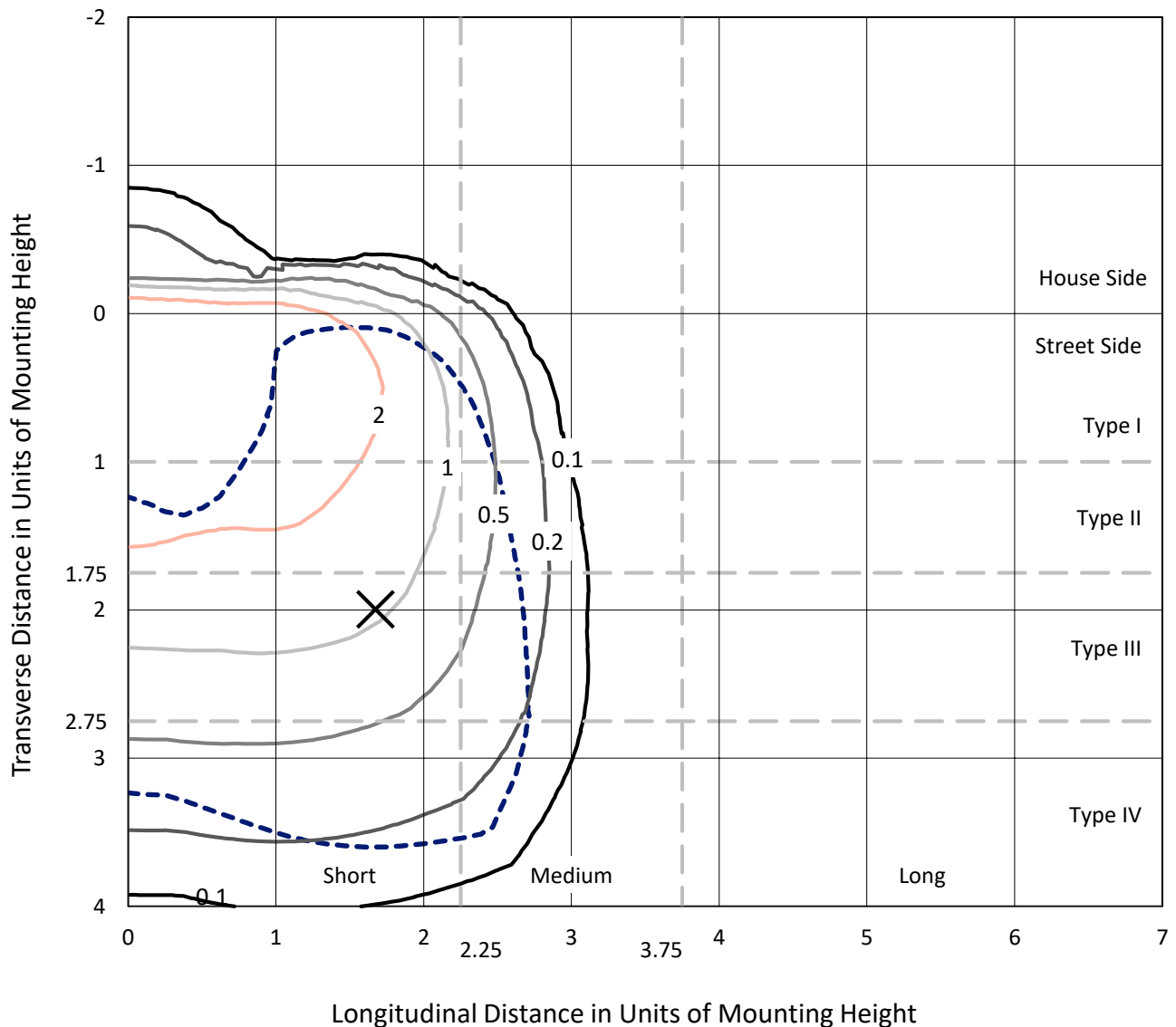
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

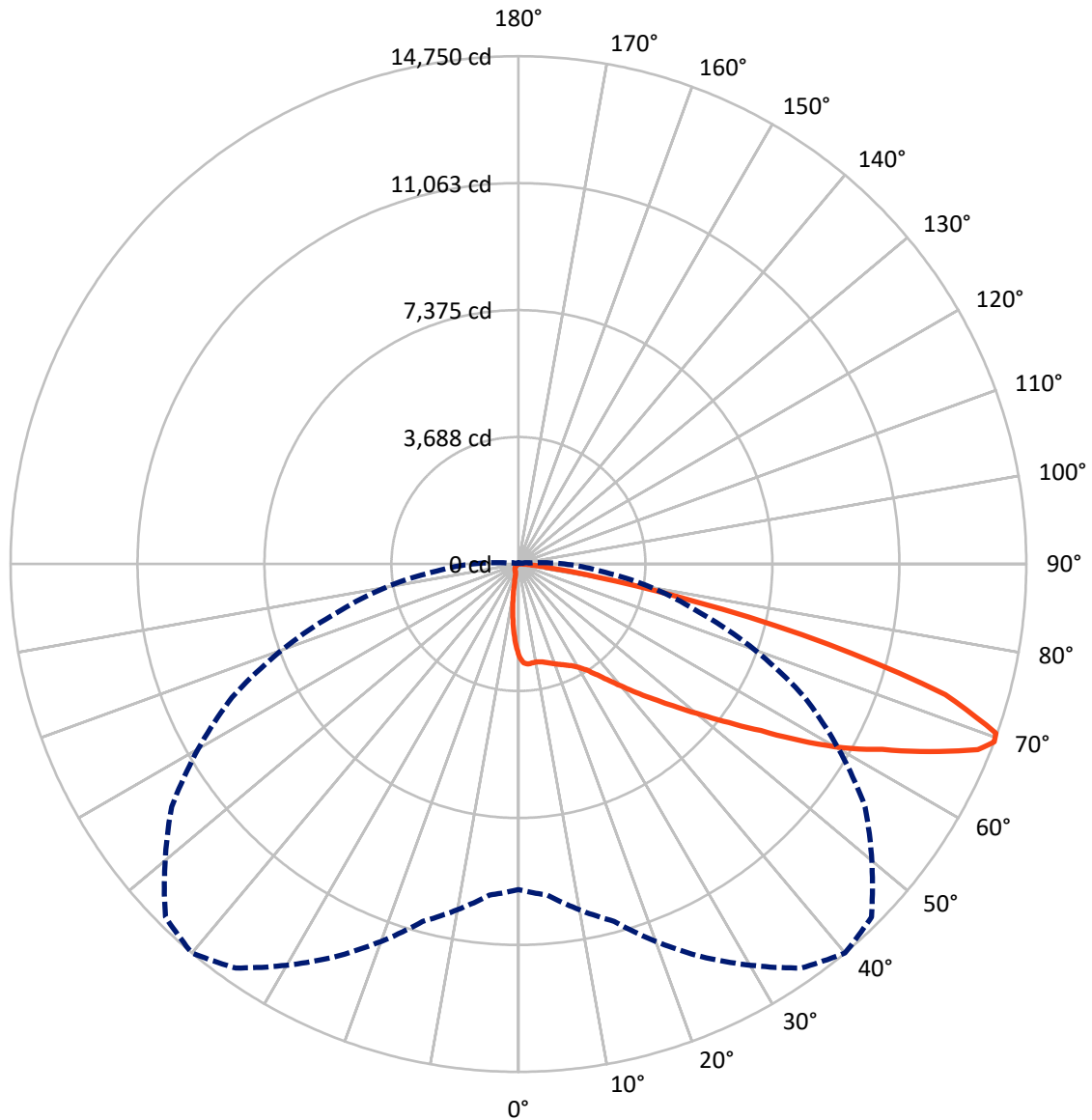
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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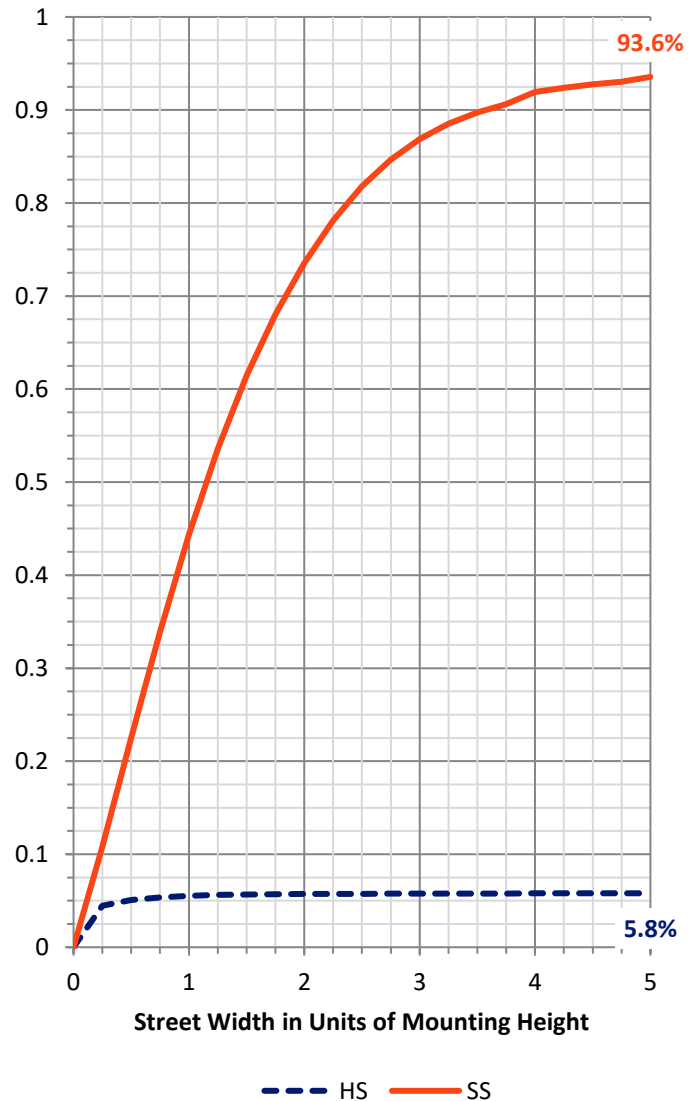
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1050.2	0.0	1050.2
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	16900.3	0.0	16900.3
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	17950.5	0.0	17950.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.4	1.2
10°-20°	534.7	3.0
20°-30°	900.7	5.0
30°-40°	1474.5	8.2
40°-50°	2553.0	14.2
50°-60°	4021.2	22.4
60°-70°	5251.6	29.3
70°-80°	2704.8	15.1
80°-90°	292.6	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°	17950.5	100.0
0°-180°	17950.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P300985

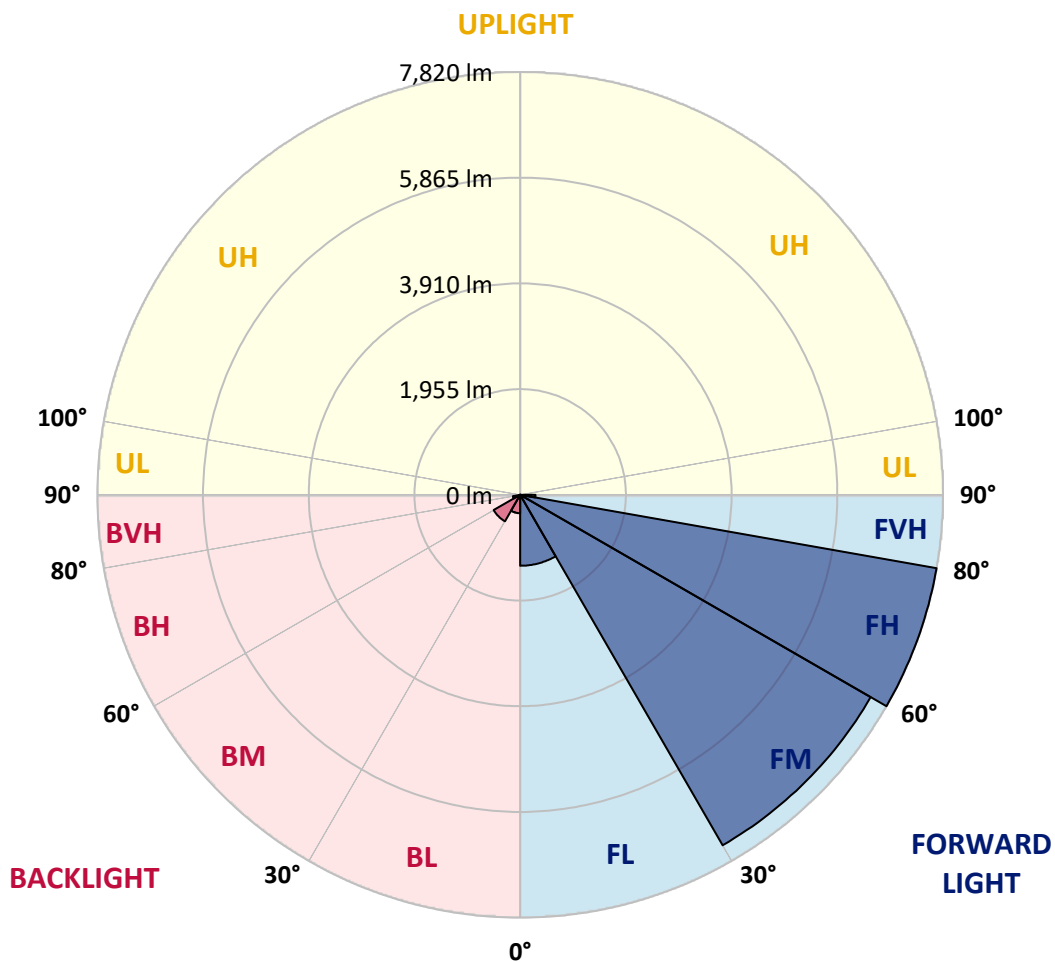
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1312.7	7.3			
FM	(30°-60°)	7484.2	41.7			
FH	(60°-80°)	7820.0	43.6			G4/12000
FVH	(80°-90°)	283.4	1.6			G3/500
BL	(0°-30°)	340.2	1.9	B1/500		
BM	(30°-60°)	564.5	3.1	B1/1000		
BH	(60°-80°)	136.4	0.8	B1/500		G1/500
BVH	(80°-90°)	9.2	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9
2.5°	2944.7	2928.7	2919.1	2906.3	2890.2	2876.4	2871.0	2831.5	2794.1	2742.8	2684.0
5°	2999.2	2993.9	2976.8	2959.7	2940.5	2919.1	2907.3	2860.3	2806.9	2732.1	2629.5
7.5°	3004.6	2998.2	2976.8	2953.3	2926.6	2900.9	2880.6	2833.6	2784.5	2708.6	2583.6
10°	2996.0	2988.5	2972.5	2946.9	2913.8	2889.2	2868.9	2824.0	2782.3	2713.9	2575.0
12.5°	2986.4	2978.9	2971.4	2958.6	2929.8	2912.7	2895.6	2852.8	2815.5	2757.8	2606.0
15°	2996.0	2991.8	3000.3	2995.0	2978.9	2964.0	2946.9	2908.4	2874.2	2826.1	2662.7
17.5°	3036.6	3036.6	3063.3	3066.5	3051.6	3030.2	3005.6	2967.2	2938.3	2897.7	2730.0
20°	3131.7	3128.5	3162.7	3169.1	3132.8	3099.7	3063.3	3016.3	2993.9	2968.2	2796.2
22.5°	3295.2	3280.2	3300.5	3294.1	3222.5	3171.3	3126.4	3068.7	3056.9	3045.2	2869.9
25°	3507.8	3499.3	3513.2	3450.1	3324.0	3254.6	3201.2	3136.0	3136.0	3147.7	2953.3
27.5°	3816.6	3784.6	3737.6	3626.4	3437.3	3348.6	3290.9	3221.5	3239.6	3283.4	3063.3
30°	4132.9	4097.6	3989.7	3818.8	3575.1	3482.2	3414.9	3342.2	3385.0	3465.1	3210.8
32.5°	4444.9	4405.4	4252.6	4036.7	3772.8	3679.9	3614.7	3534.5	3606.1	3740.8	3426.6
35°	4747.3	4712.0	4535.7	4281.4	4035.7	3958.7	3898.9	3829.4	3921.3	4109.4	3731.1
37.5°	5087.0	5048.6	4833.8	4558.1	4355.1	4299.6	4255.8	4186.3	4346.6	4622.3	4155.3
40°	5504.8	5439.6	5150.1	4875.5	4724.8	4698.1	4668.2	4658.6	4907.5	5289.0	4720.6
42.5°	5983.5	5876.7	5481.3	5209.9	5130.9	5150.1	5142.6	5185.3	5609.5	6118.1	5408.7
45°	6462.2	6324.3	5849.9	5566.8	5577.5	5644.8	5686.5	5857.4	6488.9	7069.1	6149.1
47.5°	6868.2	6732.5	6203.6	5952.5	6080.7	6213.2	6326.5	6650.2	7392.8	8005.1	6725.0
50°	7215.5	7087.2	6578.6	6376.7	6665.2	6878.9	7062.7	7542.4	8365.1	8717.7	7128.9
52.5°	7499.7	7414.2	6967.6	6862.9	7333.0	7646.1	7915.3	8490.2	9226.3	9296.9	7443.0
55°	7776.4	7715.5	7385.3	7440.9	8117.3	8543.6	8884.4	9495.6	9967.9	9779.8	7744.4
57.5°	8094.8	8039.3	7861.9	8173.9	9148.3	9684.7	10056.6	10386.7	10620.7	10273.5	8028.6
60°	8419.6	8387.6	8391.9	8988.1	10332.2	10847.2	11052.4	11137.9	11261.8	10738.2	8044.6
62.5°	8729.5	8790.4	8997.7	9894.1	11465.9	11861.2	11964.9	12049.3	11904.0	10812.0	7432.4
65°	9254.1	9353.5	9848.2	11106.9	12712.8	13135.9	13242.8	12953.2	12005.5	9858.9	6045.5
67.5°	9510.6	9692.2	10574.8	12237.3	13922.3	14392.5	14352.9	13012.0	10773.5	7517.8	3879.7
69°	9457.1	9650.5	10742.5	12583.5	14324.1	14750.4	14499.3	12292.9	9178.3	5446.1	2381.6
70°	9245.6	9441.1	10656.0	12570.7	14375.4	14713.0	14227.9	11405.0	7760.4	3982.2	1489.5
72.5°	7720.9	7889.7	9460.3	11362.2	13242.8	12968.2	11902.9	7901.4	3781.4	1084.5	335.5
75°	4752.6	4846.6	6788.1	8559.6	10002.1	9296.9	7930.3	3930.9	1127.2	306.7	185.9
77.5°	2510.9	2553.7	3716.2	5045.4	6340.4	5246.2	4064.5	1533.3	519.3	192.3	134.6
80°	1484.1	1516.2	2001.3	2306.9	2743.9	2291.9	1625.2	941.3	371.8	120.7	119.7
82.5°	849.4	869.7	1451.0	1282.2	1081.3	923.2	808.8	892.2	223.3	81.2	123.9
85°	312.0	316.3	816.3	975.5	643.2	382.5	401.7	739.4	59.8	51.3	97.2
87.5°	145.3	142.1	419.9	597.3	376.1	242.5	313.1	162.4	23.5	33.1	26.7
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°	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9
2.5°	2649.8	2610.3	2538.7	2465.0	2390.2	2332.5	2275.9	2231.0	2216.0	2188.3	2190.4
5°	2568.6	2496.0	2346.4	2194.7	2036.5	1906.2	1783.3	1683.9	1635.8	1586.7	1586.7
7.5°	2498.1	2392.3	2158.3	1911.5	1656.1	1441.4	1248.0	1102.7	1022.5	958.4	957.4
10°	2471.4	2328.2	2001.3	1647.6	1291.8	999.0	769.3	621.9	546.0	496.8	494.7
12.5°	2483.2	2305.8	1880.5	1404.0	957.4	642.2	445.6	350.5	318.4	303.4	303.4
15°	2517.3	2299.4	1759.8	1165.7	676.3	401.7	296.0	270.3	268.2	268.2	268.2
17.5°	2559.0	2301.5	1635.8	933.9	460.5	287.4	255.4	252.2	254.3	254.3	254.3
20°	2601.8	2302.6	1502.3	719.1	324.8	250.0	240.4	239.3	241.5	241.5	242.5
22.5°	2654.1	2307.9	1368.7	537.4	268.2	236.1	228.7	228.7	229.7	229.7	228.7
25°	2713.9	2318.6	1229.8	398.5	244.7	226.5	220.1	219.0	220.1	219.0	218.0
27.5°	2788.7	2333.6	1074.9	312.0	234.0	216.9	211.6	211.6	210.5	209.4	208.4
30°	2882.8	2350.7	900.7	265.0	223.3	208.4	203.0	201.9	200.9	198.7	198.7
32.5°	3025.9	2388.1	728.7	240.4	211.6	196.6	192.3	192.3	190.2	188.1	187.0
35°	3246.0	2461.8	574.8	225.4	198.7	183.8	178.4	178.4	176.3	175.2	174.2
37.5°	3550.6	2574.0	446.6	211.6	185.9	169.9	164.5	163.5	161.3	159.2	158.1
40°	3955.5	2712.9	351.5	198.7	173.1	156.0	151.7	149.6	145.3	142.1	142.1
42.5°	4464.1	2871.0	285.3	184.8	158.1	143.2	140.0	136.8	129.3	126.1	125.0
45°	4996.2	3013.1	241.5	168.8	143.2	130.4	128.2	122.9	113.3	110.1	110.1
47.5°	5379.8	3046.2	212.6	153.9	129.3	116.5	115.4	105.8	97.2	95.1	94.0
50°	5619.1	2981.1	189.1	138.9	116.5	103.6	100.4	88.7	83.3	81.2	80.1
52.5°	5780.5	2864.6	169.9	126.1	104.7	91.9	84.4	75.9	71.6	69.5	69.5
55°	5909.8	2700.1	150.7	114.3	95.1	82.3	71.6	65.2	60.9	58.8	58.8
57.5°	5946.1	2476.7	131.4	104.7	85.5	72.7	60.9	56.6	51.3	50.2	50.2
60°	5682.2	2073.9	116.5	93.0	76.9	63.0	53.4	48.1	42.7	41.7	40.6
62.5°	4986.6	1604.9	102.6	82.3	67.3	54.5	45.9	39.5	35.3	35.3	35.3
65°	3803.8	1076.0	89.8	71.6	58.8	45.9	39.5	32.1	29.9	29.9	31.0
67.5°	2276.9	585.5	76.9	60.9	50.2	38.5	33.1	27.8	26.7	27.8	27.8
69°	1334.5	344.1	69.5	54.5	43.8	34.2	28.8	24.6	26.7	27.8	27.8
70°	823.8	231.9	64.1	49.2	39.5	31.0	26.7	23.5	25.6	26.7	26.7
72.5°	229.7	119.7	51.3	38.5	32.1	25.6	21.4	21.4	24.6	25.6	25.6
75°	149.6	88.7	39.5	28.8	24.6	20.3	18.2	20.3	23.5	24.6	24.6
77.5°	123.9	72.7	32.1	23.5	20.3	19.2	17.1	18.2	21.4	22.4	22.4
80°	113.3	51.3	25.6	21.4	18.2	17.1	16.0	15.0	19.2	20.3	20.3
82.5°	107.9	40.6	22.4	19.2	17.1	15.0	13.9	15.0	17.1	18.2	19.2
85°	67.3	26.7	20.3	18.2	15.0	13.9	13.9	13.9	16.0	17.1	17.1
87.5°	24.6	21.4	18.2	15.0	12.8	12.8	12.8	12.8	13.9	16.0	16.0
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)