

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: P527265

Luminaire Tested: **GALN-SA2B-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-735-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7952 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

Input Watts (W): 82  
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: 24 FT

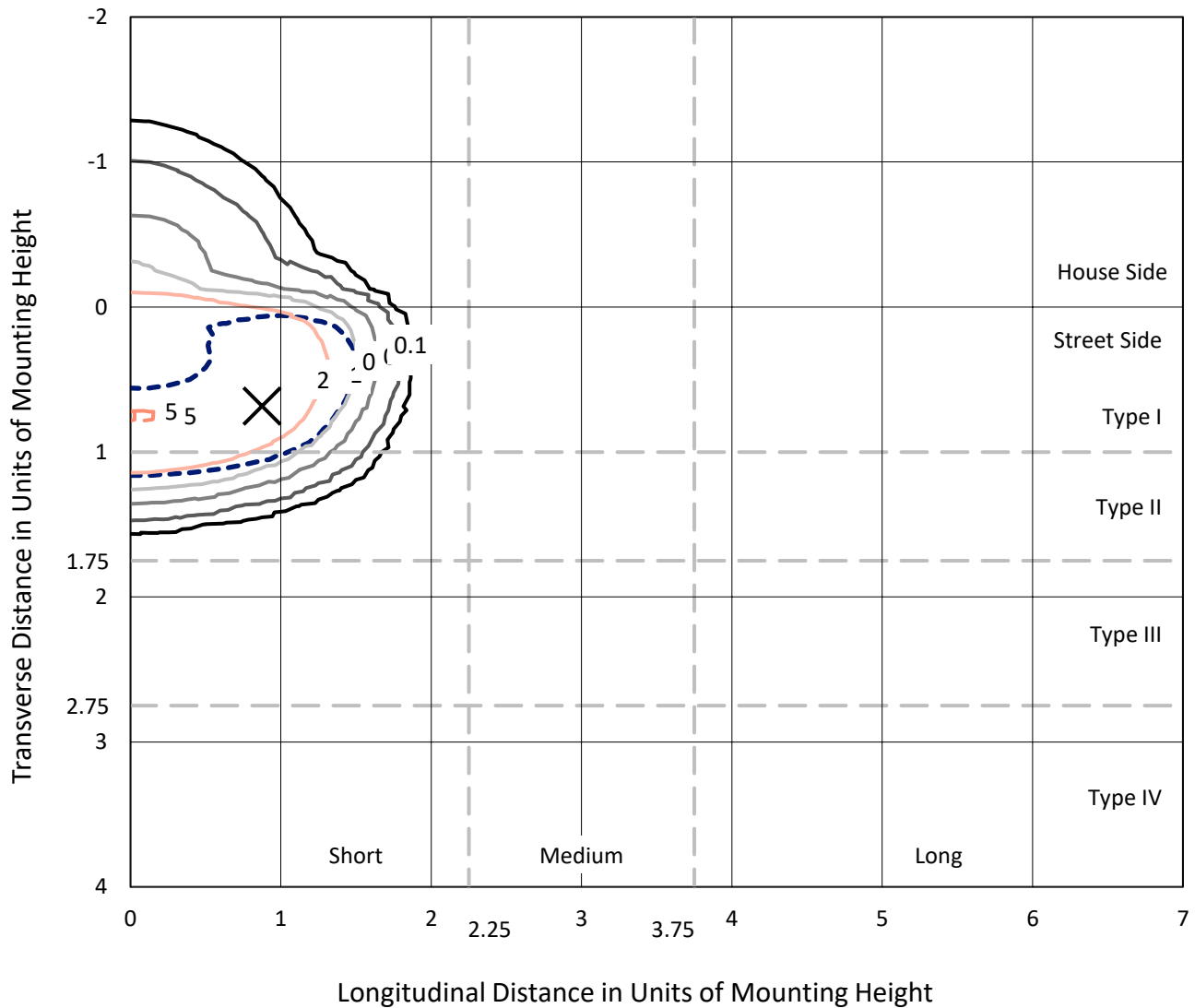


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

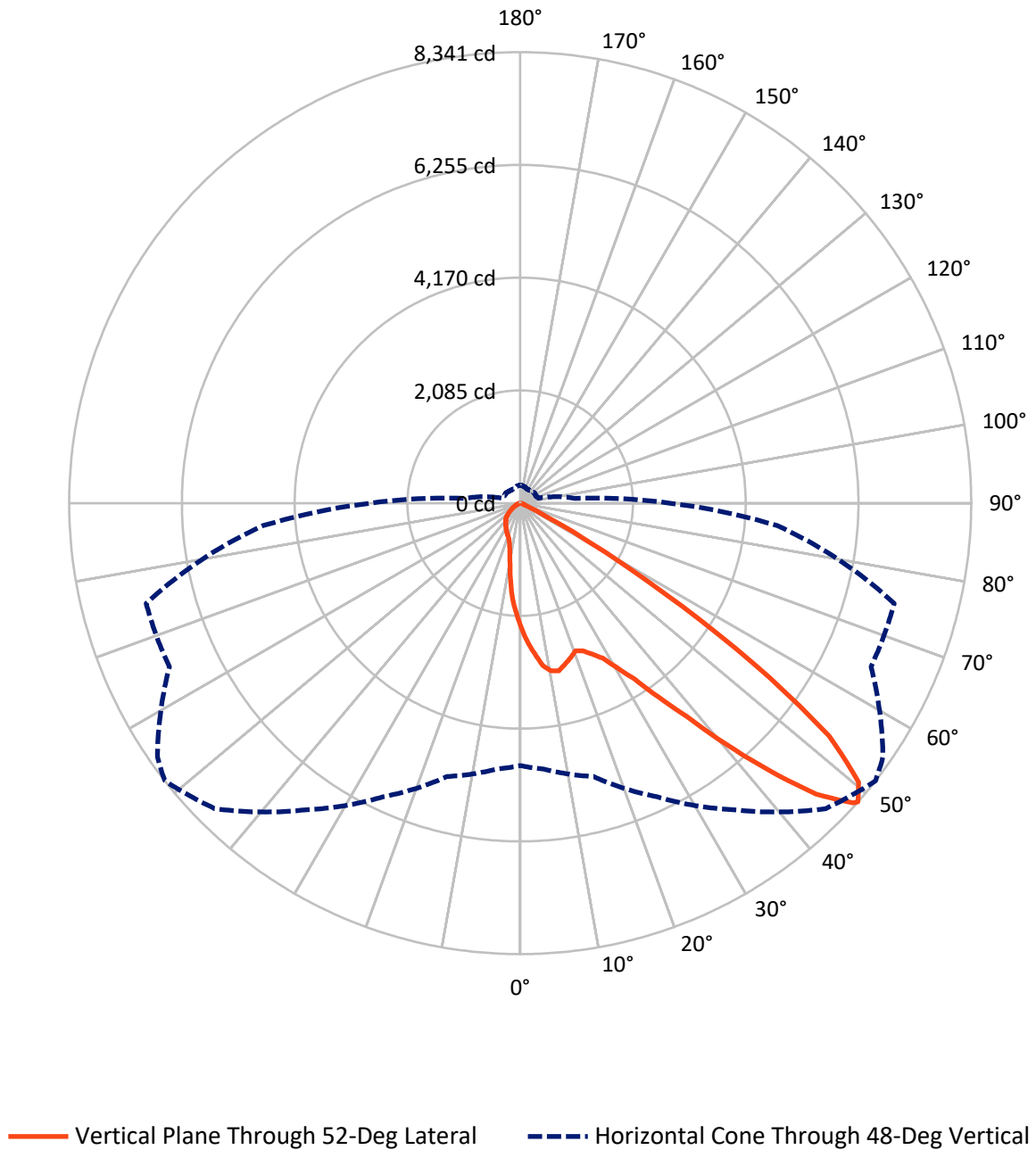


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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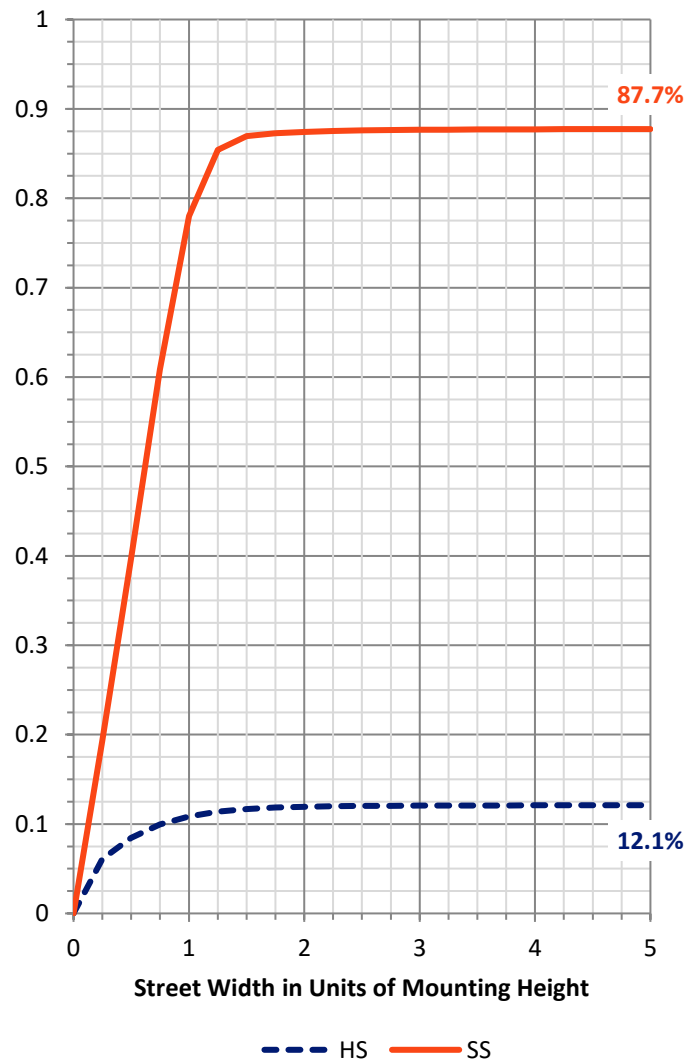
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	968.2	0.0	968.2
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	6983.8	0.0	6983.8
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	7952.0	0.0	7952.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.2	2.6
10°-20°	549.3	6.9
20°-30°	937.9	11.8
30°-40°	1727.1	21.7
40°-50°	2682.2	33.7
50°-60°	1614.2	20.3
60°-70°	186.7	2.3
70°-80°	36.1	0.5
80°-90°	8.4	0.1
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°	7952.0	100.0
0°-180°	7952.0	100.0

**Coefficient of Utilization**



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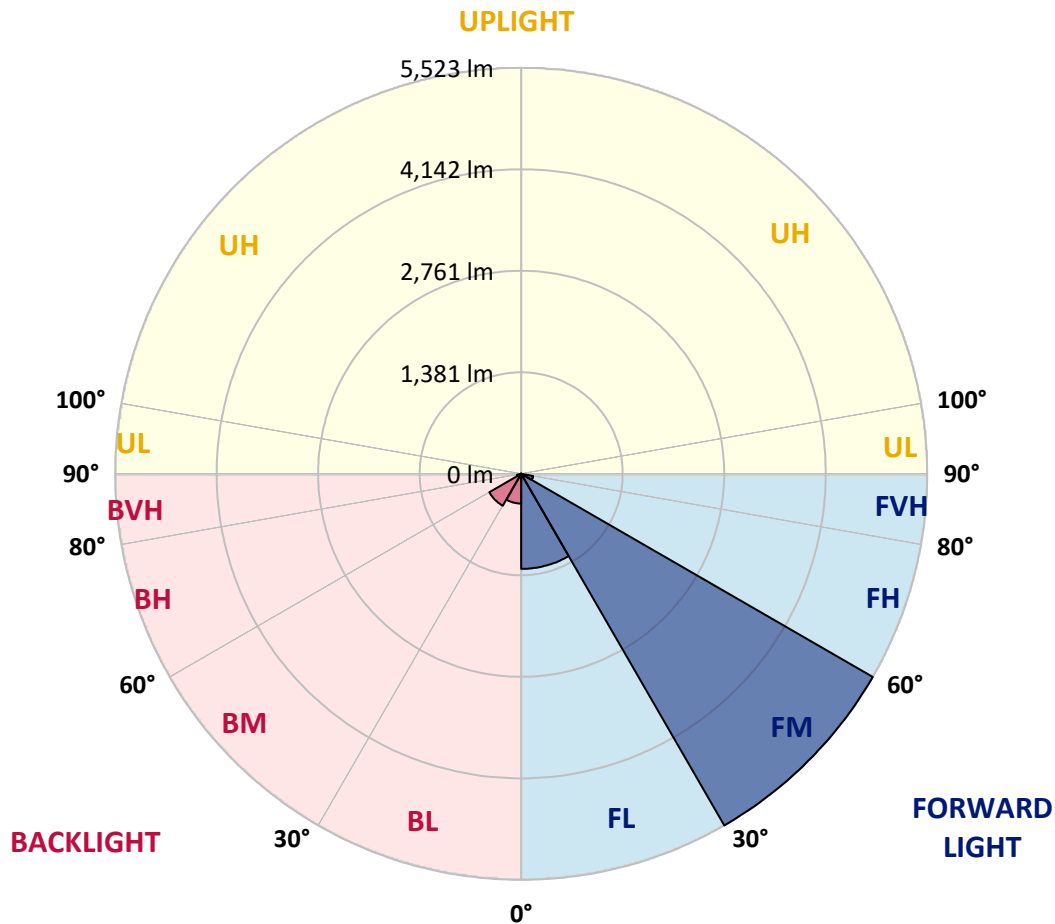
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1292.9	16.3			
FM	(30°-60°)	5522.5	69.4			
FH	(60°-80°)	164.4	2.1			G0/660
FVH	(80°-90°)	4.0	0.1			G0/10
BL	(0°-30°)	404.5	5.1	B1/500		
BM	(30°-60°)	500.9	6.3	B1/1000		
BH	(60°-80°)	58.4	0.7	B0/110		G0/110
BVH	(80°-90°)	4.4	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-G0**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2296.4	2296.4	2296.4	2296.4	2296.4	2296.4	2296.4	2296.4	2296.4	2296.4	2296.4
2.5°	2783.3	2719.5	2725.3	2683.6	2659.2	2619.8	2566.5	2556.1	2498.1	2419.3	2339.3
5°	3033.7	3018.6	3038.3	2978.0	2980.3	2915.4	2790.2	2792.5	2659.2	2530.6	2406.5
7.5°	3049.9	3015.1	3034.8	3088.1	3119.4	3107.9	3037.1	2975.7	2849.4	2660.4	2479.6
10°	2731.1	2797.2	2818.1	2906.2	3031.3	3163.5	3155.4	3158.9	3053.4	2806.5	2542.2
12.5°	2539.8	2495.8	2566.5	2619.8	2808.8	3065.0	3182.0	3207.5	3215.7	2947.9	2604.8
15°	2452.9	2452.9	2464.5	2479.6	2616.3	2852.8	3091.6	3165.8	3340.9	3133.4	2703.3
17.5°	2507.4	2505.1	2521.3	2490.0	2541.0	2723.0	3008.2	3092.8	3481.1	3315.4	2781.0
20°	2673.2	2681.3	2670.8	2580.4	2583.9	2720.7	2915.4	3048.7	3576.2	3473.0	2884.1
22.5°	2903.8	2908.5	2849.4	2750.8	2721.8	2789.1	2968.8	3070.8	3652.7	3662.0	2915.4
25°	3170.5	3151.9	3140.3	3001.2	2913.1	2971.1	3089.3	3148.4	3700.2	3824.3	3004.7
27.5°	3540.2	3503.1	3432.4	3308.4	3243.5	3161.2	3245.8	3343.2	3835.8	4051.5	3102.1
30°	4086.2	4053.8	3915.8	3755.9	3585.5	3504.3	3531.0	3584.3	4080.4	4314.6	3230.7
32.5°	4908.1	4839.7	4640.3	4335.5	4103.6	3879.9	3872.9	3929.7	4299.5	4678.6	3383.7
35°	5813.5	5792.6	5499.3	5185.2	4736.6	4391.1	4396.9	4427.0	4719.2	5156.2	3584.3
37.5°	6415.1	6529.9	6343.2	6005.9	5629.1	5135.3	5010.1	5020.6	5295.3	5721.9	3946.0
40°	6879.9	6782.6	6804.6	6725.8	6468.4	6132.2	5855.2	5800.7	5961.8	6347.9	4305.3
42.5°	6677.1	6681.7	6817.3	7004.0	7067.7	7043.4	6760.5	6657.4	6532.2	6860.2	4647.3
45°	6104.4	6223.8	6400.0	6893.9	7327.4	7734.3	7678.6	7507.1	6926.3	7266.0	4844.4
47.5°	5191.0	5186.3	5475.0	6117.2	7080.5	8033.4	8286.1	8165.5	7205.7	7220.8	4803.8
48°	4853.6	4937.1	5235.0	5990.8	6924.0	7989.3	8340.6	8188.7	7158.2	7160.5	4769.0
50°	3587.8	3572.7	3943.7	4871.0	6184.4	7507.1	8111.0	8229.3	7157.0	6855.6	4525.6
52.5°	1895.3	1960.2	2230.3	3062.6	4372.6	6143.8	7154.7	7339.0	6904.3	6357.1	4175.5
55°	805.7	728.0	935.5	1382.9	2459.9	4104.8	5248.9	5659.3	5837.8	5625.7	3652.7
57.5°	287.5	314.1	361.7	520.5	1034.0	2246.6	3129.9	3448.7	4044.5	4128.0	2488.8
60°	184.3	187.8	202.9	238.8	388.3	865.9	1485.0	1738.8	2008.9	2073.8	1161.5
62.5°	142.6	143.7	150.7	156.5	184.3	336.2	557.6	660.8	686.3	590.0	304.9
65°	119.4	120.6	122.9	122.9	131.0	157.7	194.7	214.5	208.7	206.3	172.7
67.5°	91.6	93.9	98.5	98.5	103.2	96.2	107.8	114.8	129.8	157.7	147.2
70°	71.9	73.0	76.5	78.8	78.8	69.6	77.7	84.6	95.1	117.1	115.9
72.5°	55.6	58.0	60.3	60.3	56.8	47.5	55.6	61.4	68.4	81.1	78.8
75°	42.9	42.9	44.1	35.9	27.8	24.3	33.6	40.6	51.0	53.3	44.1
77.5°	11.6	12.8	11.6	10.4	11.6	17.4	22.0	25.5	32.5	32.5	29.0
80°	0.0	1.2	3.5	7.0	11.6	16.2	19.7	22.0	25.5	27.8	26.7
82.5°	0.0	1.2	3.5	7.0	10.4	12.8	17.4	18.5	20.9	24.3	24.3
85°	0.0	1.2	2.3	4.6	7.0	8.1	8.1	7.0	7.0	5.8	4.6
87.5°	0.0	0.0	1.2	2.3	2.3	3.5	3.5	3.5	3.5	3.5	3.5
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°	2296.4	2296.4	2296.4	2296.4	2296.4	2296.4	2296.4	2296.4	2296.4	2296.4	2296.4
2.5°	2308.0	2272.1	2217.6	2131.8	2049.5	1996.2	1945.2	1888.4	1857.1	1854.7	1837.4
5°	2335.8	2254.7	2124.8	1977.6	1820.0	1684.3	1547.6	1458.3	1378.3	1334.3	1326.1
7.5°	2350.9	2245.4	2035.6	1788.7	1519.7	1298.3	1145.3	1032.9	988.8	956.4	955.2
10°	2382.2	2229.2	1902.3	1538.3	1205.6	981.9	876.4	825.4	801.0	791.7	777.8
12.5°	2405.4	2199.0	1765.5	1280.9	952.9	813.8	767.4	755.8	757.0	761.6	755.8
15°	2437.8	2172.4	1581.2	1051.4	799.9	732.6	732.6	734.9	751.2	753.5	752.3
17.5°	2435.5	2120.2	1391.1	865.9	707.1	697.8	701.3	723.4	733.8	737.3	729.1
20°	2463.3	2071.5	1195.2	739.6	655.0	668.9	692.1	697.8	710.6	712.9	703.6
22.5°	2455.2	1949.8	1013.2	639.9	615.5	642.2	665.4	672.3	668.9	661.9	660.8
25°	2440.1	1845.5	846.2	573.8	586.6	615.5	637.6	624.8	617.9	619.0	620.2
27.5°	2413.5	1713.3	708.3	527.4	547.1	590.0	588.9	584.2	591.2	585.4	591.2
30°	2408.8	1581.2	594.7	485.7	518.2	549.5	551.8	559.9	568.0	557.6	568.0
32.5°	2415.8	1436.3	513.5	460.2	500.8	501.9	527.4	535.6	529.8	506.6	508.9
35°	2469.1	1325.0	454.4	446.3	473.0	474.1	498.5	488.0	462.5	448.6	456.7
37.5°	2581.6	1232.2	426.6	433.5	435.9	450.9	452.1	431.2	433.5	432.4	437.0
40°	2725.3	1161.5	406.9	422.0	419.6	430.1	388.3	399.9	410.4	413.8	416.2
42.5°	2823.8	1110.5	394.1	403.4	398.8	380.2	357.0	368.6	376.7	389.5	391.8
45°	2867.9	1070.0	379.1	370.9	370.9	337.3	328.1	330.4	348.9	362.8	360.5
47.5°	2796.0	1030.5	352.4	328.1	336.2	308.4	297.9	297.9	317.6	335.0	331.5
48°	2768.2	1014.3	353.6	318.8	324.6	303.7	293.3	291.0	313.0	329.2	329.2
50°	2630.3	954.0	323.4	293.3	281.7	279.4	272.4	274.7	288.6	303.7	303.7
52.5°	2361.3	824.2	273.6	251.5	230.7	244.6	248.1	243.4	250.4	264.3	263.1
55°	1970.7	632.9	219.1	208.7	192.4	207.5	214.5	208.7	201.7	212.1	212.1
57.5°	1262.4	340.8	175.0	177.4	161.1	176.2	182.0	168.1	155.3	163.4	162.3
60°	569.2	204.0	143.7	140.3	129.8	147.2	156.5	140.3	122.9	128.7	134.5
62.5°	213.3	144.9	109.0	106.6	104.3	120.6	125.2	112.4	95.1	98.5	99.7
65°	156.5	127.5	86.9	78.8	83.5	95.1	92.7	80.0	68.4	68.4	70.7
67.5°	133.3	111.3	70.7	61.4	61.4	62.6	58.0	51.0	47.5	49.8	52.2
70°	104.3	88.1	55.6	47.5	42.9	38.3	33.6	32.5	29.0	32.5	31.3
72.5°	67.2	59.1	42.9	35.9	32.5	26.7	22.0	20.9	17.4	16.2	16.2
75°	35.9	35.9	33.6	29.0	25.5	20.9	17.4	13.9	9.3	7.0	7.0
77.5°	25.5	27.8	30.1	27.8	23.2	17.4	13.9	9.3	4.6	2.3	2.3
80°	24.3	27.8	30.1	26.7	23.2	17.4	12.8	7.0	3.5	1.2	1.2
82.5°	22.0	25.5	27.8	24.3	20.9	15.1	11.6	7.0	3.5	1.2	1.2
85°	4.6	5.8	7.0	7.0	8.1	10.4	8.1	5.8	2.3	1.2	1.2
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	2.3	2.3	1.2	1.2	1.2
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)