

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: P452404

Luminaire Tested: **GALN-SA3B-760-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452404  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-760-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 800mA 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: 13973 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

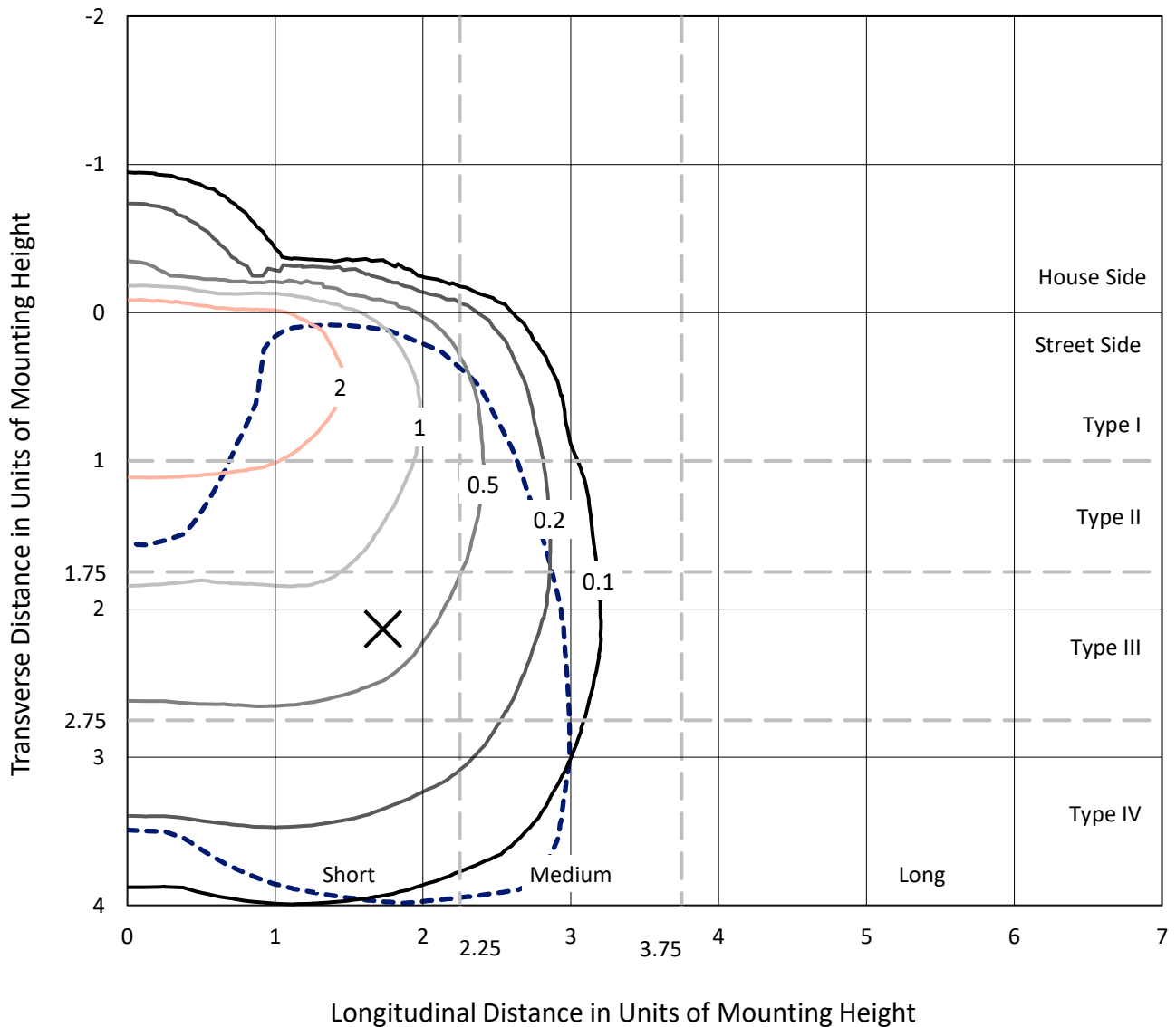
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

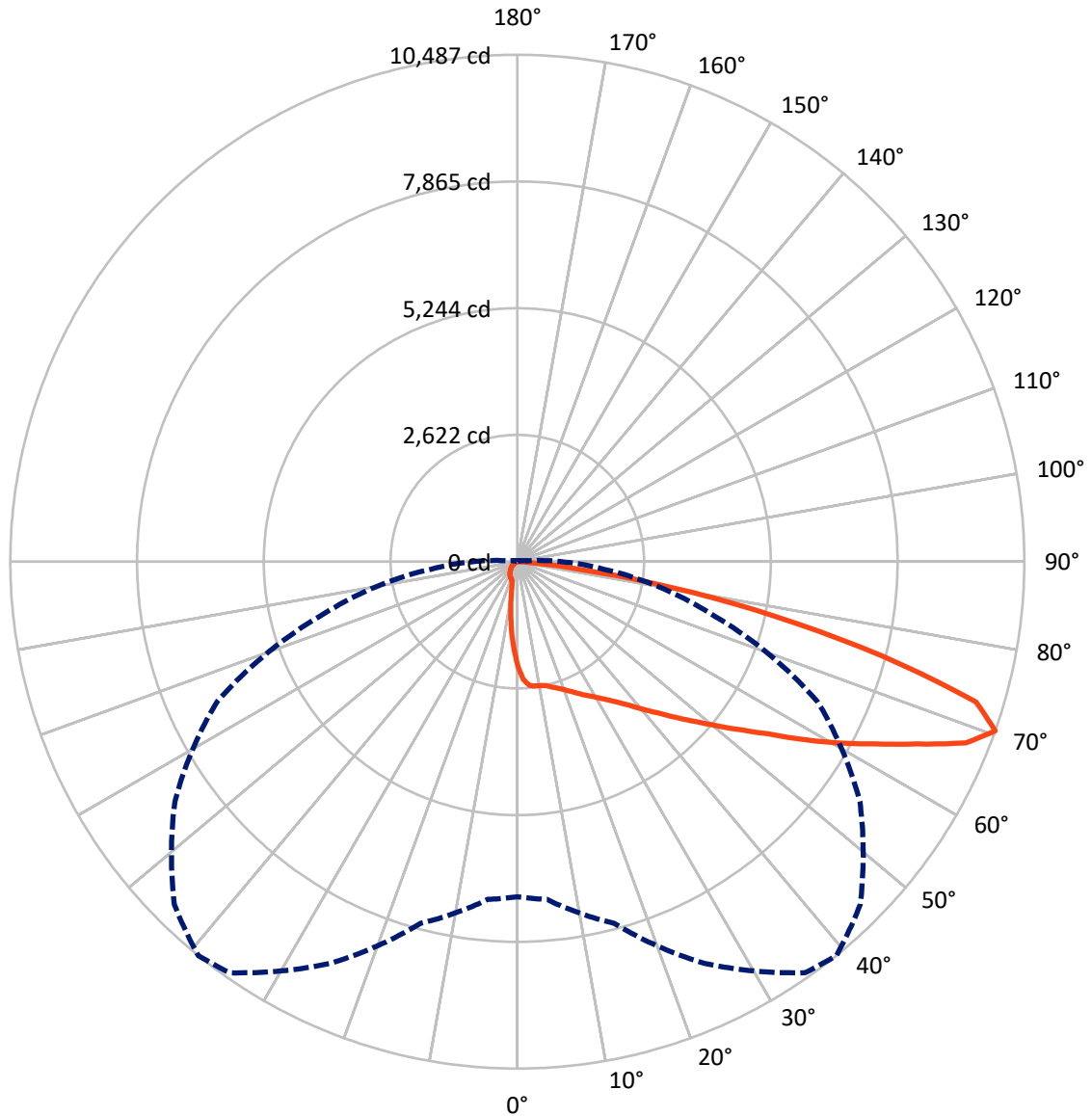
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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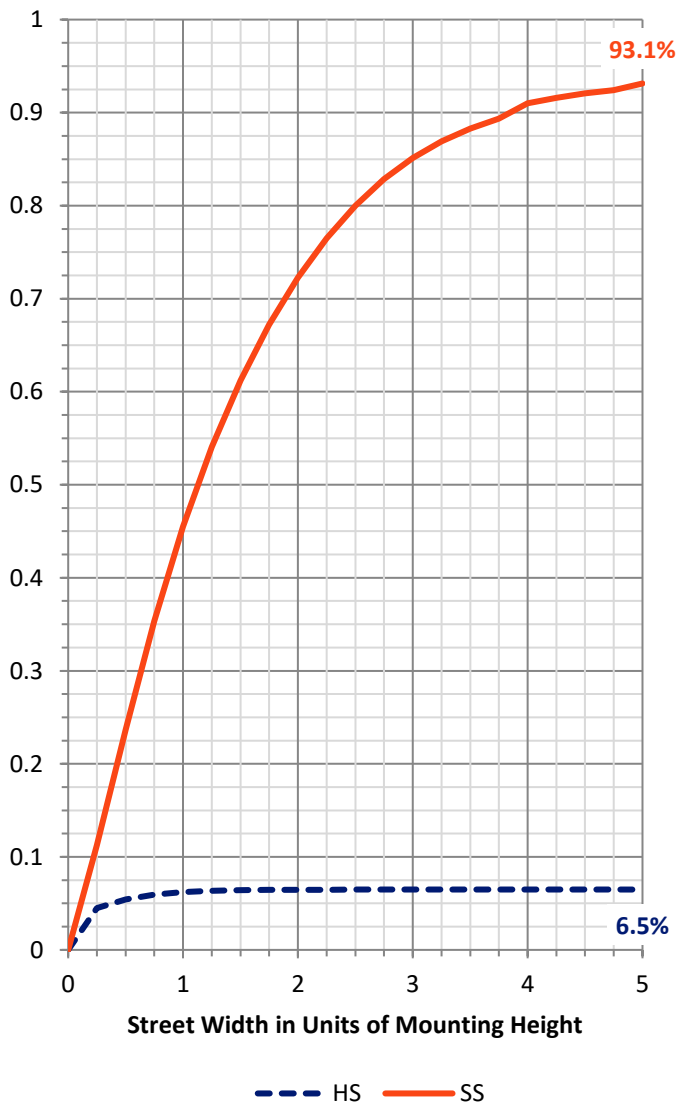
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	911.1	0.0	911.1
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	13061.9	0.0	13061.9
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	13973.0	0.0	13973.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.0	1.3
10°-20°	483.3	3.5
20°-30°	809.6	5.8
30°-40°	1255.6	9.0
40°-50°	1989.7	14.2
50°-60°	2916.6	20.9
60°-70°	3738.4	26.8
70°-80°	2349.1	16.8
80°-90°	244.7	1.8
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°	13973.0	100.0
0°-180°	13973.0	100.0

**Coefficient of Utilization**



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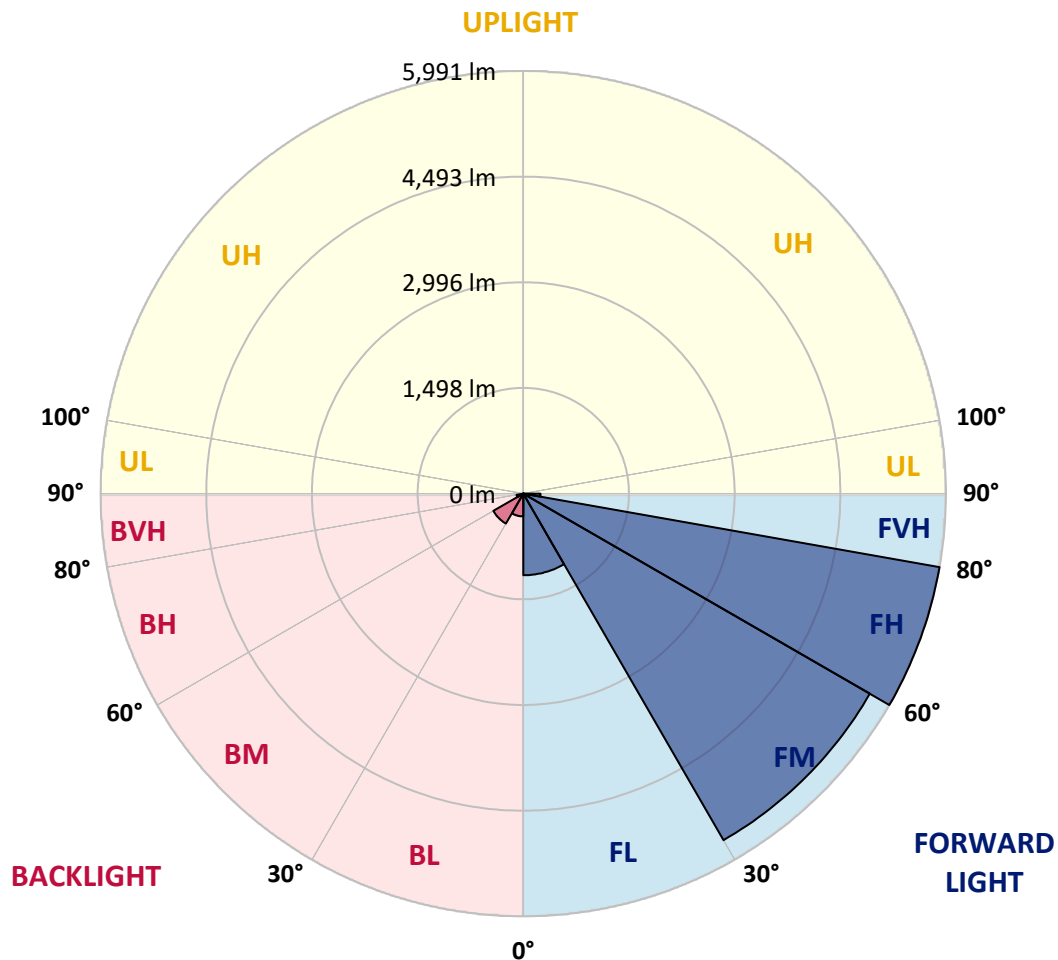
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.2	8.3			
FM (30°-60°)	5671.6	40.6			
FH (60°-80°)	5991.2	42.9			G3/7500
FVH (80°-90°)	242.9	1.7			G3/500
BL (0°-30°)	322.6	2.3	B1/500		
BM (30°-60°)	490.3	3.5	B1/1000		
BH (60°-80°)	96.4	0.7	B0/110		G0/110
BVH (80°-90°)	1.8	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3
2.5°	2519.2	2510.8	2499.5	2486.4	2448.8	2442.2	2419.7	2371.8	2314.5	2267.6	2202.8
5°	2638.5	2643.2	2634.7	2611.3	2584.0	2568.1	2539.9	2465.7	2391.5	2296.7	2190.6
7.5°	2665.7	2675.1	2664.8	2642.2	2615.9	2599.0	2576.5	2512.7	2426.3	2318.3	2172.8
10°	2662.9	2674.2	2667.6	2646.9	2625.3	2609.4	2585.0	2534.3	2464.8	2351.2	2178.4
12.5°	2658.2	2673.2	2672.3	2662.0	2644.1	2631.9	2616.9	2571.8	2507.0	2399.0	2209.4
15°	2645.1	2663.8	2680.7	2689.2	2690.1	2690.1	2671.3	2623.5	2561.5	2462.0	2249.8
17.5°	2650.7	2672.3	2714.5	2738.9	2755.9	2754.0	2734.3	2682.6	2614.1	2526.7	2292.0
20°	2685.4	2714.5	2773.7	2822.5	2839.4	2833.8	2807.5	2747.4	2669.5	2582.1	2333.3
22.5°	2770.9	2797.2	2871.3	2928.6	2940.8	2925.8	2888.2	2806.6	2736.1	2642.2	2383.1
25°	2898.6	2929.6	2998.1	3041.3	3041.3	3032.8	2980.3	2884.5	2811.2	2725.8	2447.9
27.5°	3053.5	3079.8	3147.4	3185.9	3163.4	3138.9	3086.4	2970.9	2900.5	2831.0	2525.8
30°	3210.3	3227.2	3298.6	3315.5	3292.0	3261.0	3204.7	3089.2	3027.2	2973.7	2638.5
32.5°	3358.7	3395.3	3454.4	3450.7	3418.8	3403.7	3352.1	3229.1	3194.3	3188.7	2796.2
35°	3507.0	3535.2	3587.8	3600.9	3572.7	3569.9	3532.4	3441.3	3442.2	3478.9	3042.2
37.5°	3634.7	3660.1	3722.0	3751.1	3756.8	3770.9	3755.8	3695.8	3781.2	3881.7	3368.1
40°	3741.8	3777.4	3856.3	3907.0	3965.2	4016.9	4019.7	4032.8	4204.7	4377.4	3793.4
42.5°	3825.3	3875.1	3989.6	4083.5	4216.9	4282.6	4335.2	4407.5	4696.7	4954.9	4294.8
45°	3934.2	3991.5	4134.2	4281.7	4490.1	4598.1	4671.3	4864.8	5275.1	5627.2	4809.4
47.5°	4114.5	4144.6	4290.1	4505.1	4779.3	4933.3	5076.0	5369.0	5895.7	6211.2	5237.5
50°	4346.5	4366.2	4476.0	4774.6	5129.5	5332.4	5592.5	5937.0	6539.9	6695.7	5479.8
52.5°	4602.8	4609.4	4692.0	5071.3	5522.0	5777.4	6068.5	6493.9	7064.7	7041.3	5640.3
55°	4900.4	4891.0	4961.5	5393.4	5986.8	6278.8	6617.8	7063.8	7520.1	7286.3	5732.4
57.5°	5241.3	5215.9	5284.5	5820.6	6582.1	6931.4	7276.0	7555.8	7873.2	7492.0	5776.5
60°	5598.1	5547.4	5629.1	6300.4	7283.5	7615.0	7901.4	7976.5	8245.0	7655.3	5700.4
62.5°	5882.6	5883.5	6035.6	6811.2	8004.6	8294.8	8446.9	8514.5	8565.2	7619.7	5300.4
65°	6326.7	6341.7	6584.9	7520.1	8839.4	9091.0	9195.2	8975.5	8579.3	7176.5	4699.5
67.5°	6784.9	6832.8	7277.9	8496.7	9803.7	10006.5	9872.2	9064.7	8196.2	6165.2	3563.4
70°	6934.2	7013.1	7746.4	9169.0	10382.1	10487.3	10032.8	8648.8	6851.6	4122.0	1793.4
72.5°	6353.9	6481.6	7476.9	8923.9	10013.1	9922.0	8976.5	7253.5	4355.8	1565.2	547.4
75°	4480.7	4537.1	6214.0	7402.8	8053.5	7795.3	6828.1	4676.0	1791.5	439.4	187.8
77.5°	2313.6	2286.4	3695.8	4911.7	5743.6	5476.0	4471.3	2420.6	678.9	183.1	116.4
80°	1196.2	1216.0	1599.1	2573.7	3506.1	3226.3	2384.0	1122.1	361.5	101.4	89.2
82.5°	670.4	629.1	919.2	1123.9	1639.4	1285.4	914.5	794.4	157.7	61.0	84.5
85°	122.1	127.7	504.2	607.5	569.0	361.5	294.8	530.5	46.0	33.8	59.2
87.5°	1.9	1.9	97.7	174.6	110.8	50.7	93.0	76.1	9.4	13.1	10.3
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°	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3
2.5°	2169.9	2134.3	2067.6	2001.9	1918.3	1849.8	1803.7	1755.9	1707.0	1710.8	1722.1
5°	2132.4	2070.4	1939.0	1800.0	1666.7	1546.5	1428.2	1322.1	1278.9	1239.4	1241.3
7.5°	2094.8	2007.5	1815.0	1597.2	1395.3	1190.6	1042.2	920.2	855.4	806.6	792.5
10°	2077.9	1962.4	1701.4	1401.9	1115.5	892.0	701.4	601.9	524.9	500.5	507.0
12.5°	2085.4	1939.9	1599.1	1225.3	884.5	621.6	488.3	437.6	420.7	417.8	416.0
15°	2099.5	1923.9	1498.6	1030.0	649.8	462.0	410.3	400.9	399.1	397.2	398.1
17.5°	2118.3	1909.8	1391.5	846.9	498.6	403.8	388.7	384.0	383.1	383.1	383.1
20°	2137.1	1893.9	1272.3	683.6	416.0	381.2	371.8	369.0	368.1	368.1	367.1
22.5°	2158.7	1879.8	1151.2	537.1	383.1	365.3	356.8	354.9	354.0	353.0	353.0
25°	2189.7	1862.0	1022.5	439.4	362.4	350.2	341.8	339.9	339.0	335.2	336.1
27.5°	2231.0	1848.8	890.1	379.3	343.7	331.5	325.8	323.0	321.1	318.3	319.2
30°	2287.3	1837.5	749.3	346.5	322.1	311.7	306.1	304.2	302.3	299.5	299.5
32.5°	2385.0	1842.2	600.9	320.2	302.3	290.1	284.5	282.6	280.7	277.9	277.9
35°	2531.4	1869.5	480.7	297.7	278.9	266.7	261.0	261.0	258.2	254.5	253.5
37.5°	2770.9	1939.0	385.9	276.1	256.3	245.1	238.5	236.6	233.8	228.2	227.2
40°	3053.5	2046.9	324.9	254.5	235.7	224.4	218.8	213.1	205.6	200.0	199.1
42.5°	3408.4	2157.7	281.7	232.9	216.0	205.6	199.1	189.7	178.4	170.9	170.0
45°	3778.4	2259.1	252.6	213.1	197.2	188.7	181.2	166.2	152.1	142.7	141.8
47.5°	4054.4	2277.9	229.1	194.4	181.2	172.8	162.4	143.7	124.9	116.4	113.6
50°	4184.9	2186.8	204.7	175.6	165.3	155.9	142.7	121.1	100.5	90.1	88.3
52.5°	4231.0	2029.1	185.0	158.7	149.3	138.0	122.1	97.7	78.9	68.5	67.6
55°	4212.2	1830.0	167.1	142.7	130.5	117.4	101.4	77.9	58.2	49.8	47.9
57.5°	4113.6	1576.5	149.3	126.8	111.7	98.6	80.8	58.2	39.4	31.9	31.0
60°	3847.9	1231.0	131.5	108.9	94.8	80.8	63.8	41.3	24.4	17.8	17.8
62.5°	3399.0	913.6	114.6	91.1	79.8	64.8	45.1	26.3	13.1	9.4	8.5
65°	2840.4	674.2	95.8	77.0	66.7	50.7	31.9	16.0	6.6	2.8	1.9
67.5°	1982.1	416.0	79.8	62.9	54.5	36.6	19.7	6.6	2.8	0.0	0.0
70°	900.5	198.1	61.0	47.9	41.3	26.3	10.3	3.8	1.9	0.0	0.0
72.5°	279.8	104.2	43.2	34.7	28.2	16.9	5.6	2.8	1.9	0.0	0.0
75°	129.6	66.7	27.2	18.8	16.0	8.5	3.8	1.9	0.9	0.0	0.0
77.5°	96.7	51.6	16.0	10.3	8.5	5.6	2.8	1.9	0.9	0.0	0.0
80°	84.5	26.3	9.4	6.6	4.7	3.8	1.9	0.9	0.0	0.0	0.0
82.5°	76.1	13.1	5.6	3.8	2.8	1.9	0.9	0.9	0.0	0.0	0.0
85°	41.3	7.5	3.8	2.8	1.9	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	7.5	3.8	2.8	1.9	1.9	0.9	0.9	0.9	0.0	0.0	0.0
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)