

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: P451416

Luminaire Tested: **GALN-SA2B-740-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA 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: 9466 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

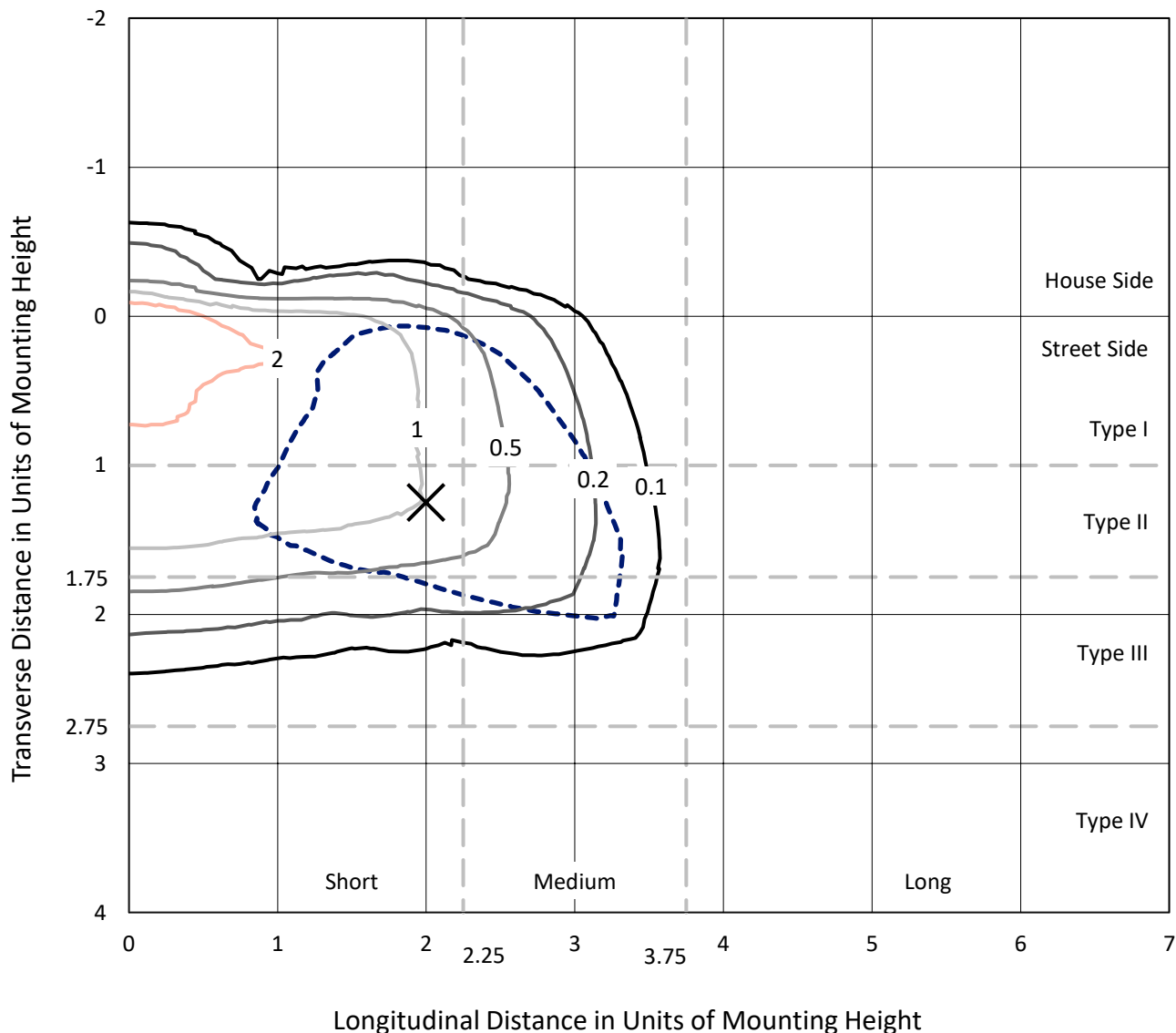
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

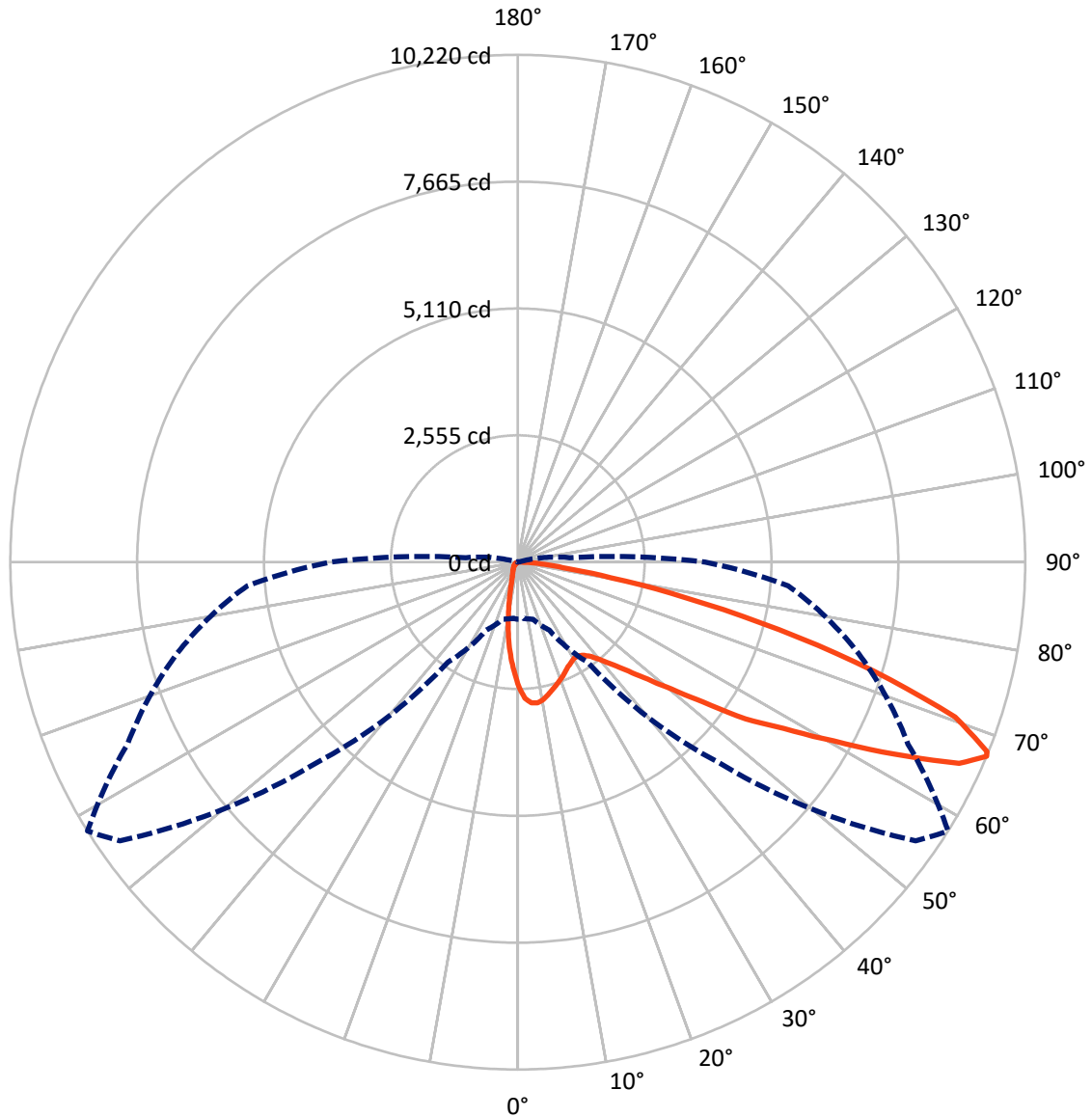
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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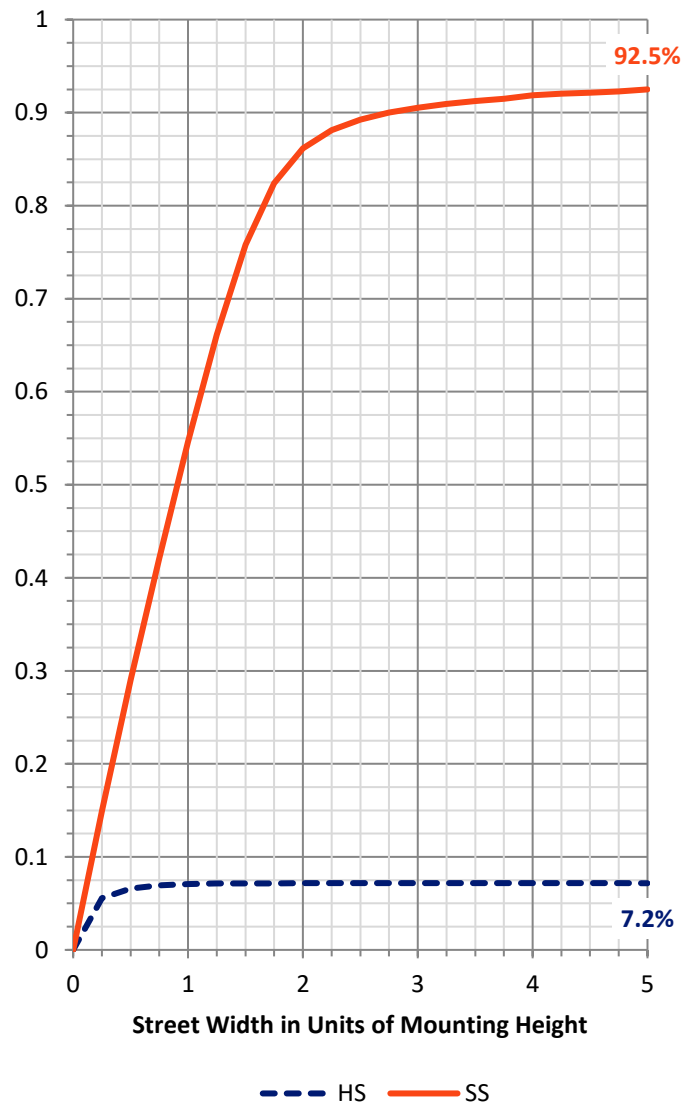
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	683.1	0.0	683.1
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	8782.9	0.0	8782.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	9466.0	0.0	9466.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.6	2.2
10°-20°	439.8	4.6
20°-30°	595.9	6.3
30°-40°	826.5	8.7
40°-50°	1318.2	13.9
50°-60°	2278.7	24.1
60°-70°	2603.0	27.5
70°-80°	1085.2	11.5
80°-90°	115.1	1.2
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°	9466.0	100.0
0°-180°	9466.0	100.0



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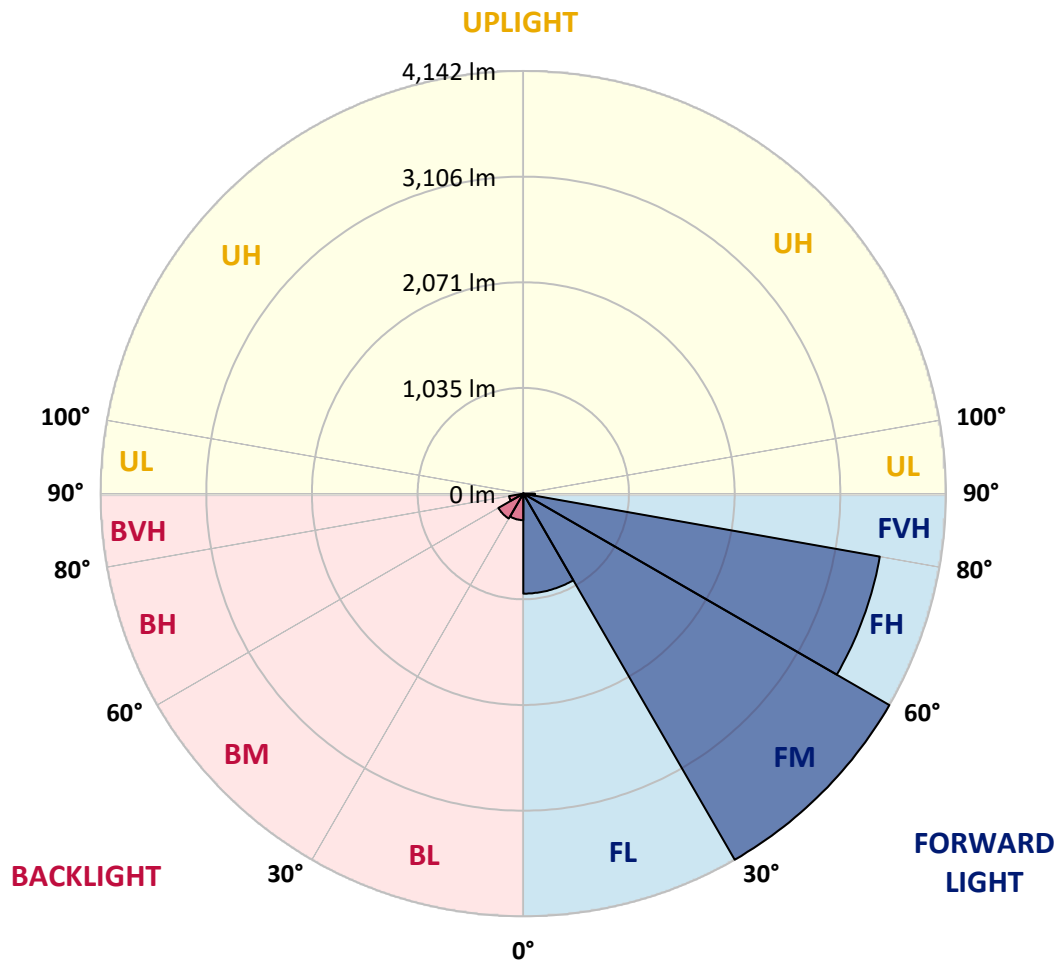
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.0	10.4			
FM (30°-60°)	4141.8	43.8			
FH (60°-80°)	3546.9	37.5			G2/5000
FVH (80°-90°)	114.2	1.2			G2/225
BL (0°-30°)	259.4	2.7	B1/500		
BM (30°-60°)	281.7	3.0	B1/1000		
BH (60°-80°)	141.2	1.5	B1/500		G1/500
BVH (80°-90°)	0.8	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3
2.5°	2912.3	2916.7	2900.3	2887.0	2852.8	2816.1	2767.4	2741.5	2697.2	2620.7	2535.9
5°	2980.6	2986.3	2983.8	2980.6	2967.3	2931.9	2869.9	2847.1	2782.0	2657.4	2504.3
7.5°	2828.8	2849.7	2852.2	2876.9	2900.3	2903.4	2880.0	2862.9	2802.9	2656.7	2448.0
10°	2627.6	2641.6	2661.8	2690.3	2746.6	2793.4	2816.1	2813.6	2778.8	2637.1	2382.2
12.5°	2424.6	2432.2	2463.2	2511.9	2580.8	2660.5	2721.3	2733.3	2733.9	2613.7	2327.2
15°	2250.0	2246.8	2270.9	2327.2	2424.0	2523.9	2632.7	2651.7	2682.0	2590.9	2275.9
17.5°	2100.7	2117.2	2121.0	2183.0	2272.1	2401.8	2540.3	2573.9	2634.6	2571.3	2233.6
20°	2008.4	2017.2	2025.4	2060.2	2140.6	2277.2	2453.7	2499.9	2590.3	2553.6	2186.1
22.5°	1981.2	1986.9	1979.9	1990.7	2047.6	2169.0	2359.4	2420.8	2547.9	2537.2	2147.5
25°	2002.0	2007.7	1991.3	1978.6	1998.2	2081.1	2268.3	2343.0	2513.8	2534.0	2118.4
27.5°	2052.6	2063.4	2040.6	2017.9	2006.5	2033.7	2196.9	2283.5	2490.4	2549.2	2105.1
30°	2131.7	2138.0	2121.0	2093.1	2067.2	2040.0	2159.5	2242.4	2484.0	2584.6	2103.9
32.5°	2217.7	2231.0	2221.5	2203.2	2169.7	2105.1	2170.3	2243.7	2499.2	2635.9	2119.7
35°	2324.0	2339.2	2348.0	2344.3	2301.2	2220.9	2238.6	2300.6	2539.7	2730.1	2162.7
37.5°	2428.4	2441.7	2491.6	2508.7	2470.8	2394.9	2371.5	2412.6	2628.9	2853.5	2240.5
40°	2547.9	2565.6	2635.9	2701.0	2682.7	2603.0	2560.0	2594.1	2765.5	3039.4	2387.9
42.5°	2662.4	2694.1	2801.0	2916.1	2933.2	2844.0	2815.5	2826.9	2968.0	3307.0	2593.5
45°	2825.0	2854.7	2992.6	3148.9	3229.2	3159.6	3130.5	3128.6	3245.6	3683.4	2926.8
47.5°	3059.7	3086.2	3248.8	3403.2	3546.1	3555.6	3500.6	3519.5	3594.8	4123.6	3335.5
50°	3347.5	3410.1	3517.0	3677.7	3868.7	4023.1	4040.1	4014.8	4079.4	4633.5	3826.3
52.5°	3765.6	3789.6	3887.7	4019.9	4243.8	4505.7	4708.7	4674.0	4653.7	5119.3	4322.3
55°	4077.5	4109.7	4262.2	4443.7	4772.0	5117.4	5557.6	5569.7	5314.1	5586.1	4807.4
57.5°	3983.2	4032.5	4263.4	4628.4	5350.2	5981.4	6309.1	6317.3	5925.2	6039.6	5355.2
60°	3499.3	3522.7	3853.5	4340.6	5399.5	6917.6	7375.0	7308.6	6547.0	6547.0	5839.1
62.5°	2481.5	2518.2	2786.4	3503.1	4876.4	7242.8	8651.5	8514.2	7403.4	7032.1	6127.6
65°	1585.8	1550.4	1728.1	2211.4	3632.8	6762.7	9762.9	9771.1	8209.3	7226.3	5970.1
67°	1148.7	1134.8	1186.0	1511.8	2463.2	5684.8	9786.3	10219.6	8672.3	7103.6	5466.5
67.5°	1050.7	1061.4	1098.7	1363.8	2238.0	5173.0	9680.0	10193.0	8776.7	7029.6	5284.4
70°	796.4	778.0	818.5	964.6	1341.7	3263.4	8327.0	9348.5	8647.0	6295.2	4222.3
72.5°	585.7	583.8	640.1	788.8	1033.0	1738.3	6250.9	7495.8	7064.4	4793.5	2658.6
75°	395.3	413.1	502.9	659.1	936.2	1127.2	4261.5	5438.1	4904.2	2721.9	1086.7
77.5°	225.2	226.5	323.9	529.4	840.7	907.1	2525.2	3464.5	2596.0	905.2	322.6
80°	97.4	106.9	160.7	384.6	697.1	803.3	1447.9	1904.0	1050.0	191.7	104.4
82.5°	36.1	42.4	70.8	236.6	508.6	661.7	874.8	909.0	356.1	67.7	65.2
85°	0.0	1.3	25.9	110.7	265.0	295.4	584.5	538.9	157.5	32.3	42.4
87.5°	0.0	0.0	0.0	11.4	34.8	110.1	181.5	202.4	38.0	11.4	10.1
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°	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3
2.5°	2490.4	2449.3	2346.2	2243.0	2166.5	2102.6	2006.5	1954.0	1926.1	1885.0	1887.5
5°	2427.7	2344.3	2162.7	1974.8	1823.0	1675.0	1497.9	1426.4	1366.3	1332.2	1309.4
7.5°	2334.8	2211.4	1942.6	1692.1	1458.7	1200.0	1005.8	876.1	788.8	756.5	725.5
10°	2232.9	2069.1	1719.3	1372.0	1048.1	781.2	616.7	497.8	455.4	416.2	420.0
12.5°	2138.7	1939.4	1514.3	1082.9	734.4	496.6	387.1	338.4	324.5	320.1	320.1
15°	2061.5	1815.4	1294.2	814.1	503.5	356.8	310.0	296.7	291.6	290.3	290.3
17.5°	1979.3	1697.8	1095.6	601.6	366.2	298.6	282.8	273.9	272.0	270.7	270.7
20°	1905.9	1579.5	907.1	447.8	296.0	268.8	258.7	253.0	251.1	249.9	250.5
22.5°	1836.3	1474.5	730.0	338.4	260.6	244.8	234.7	229.0	225.2	222.0	222.7
25°	1774.3	1373.3	587.0	277.1	234.7	220.8	210.6	202.4	194.2	190.4	189.8
27.5°	1730.7	1284.7	457.3	237.2	211.3	196.1	183.4	173.3	162.6	156.9	155.6
30°	1694.6	1194.9	361.8	209.4	187.9	173.3	157.5	143.0	131.6	125.9	123.3
32.5°	1671.2	1109.5	285.3	186.6	168.3	150.5	132.8	118.3	105.6	99.9	98.7
35°	1667.4	1038.0	233.4	167.6	150.5	131.6	113.2	97.4	86.7	81.0	79.7
37.5°	1694.6	983.0	195.5	152.4	136.0	115.1	94.9	80.3	70.8	66.4	65.8
40°	1767.4	948.2	169.5	139.8	122.7	99.9	81.0	68.3	58.8	54.4	54.4
42.5°	1905.9	949.5	152.4	127.8	109.4	85.4	68.9	56.9	48.7	44.9	43.6
45°	2122.2	992.5	137.9	115.8	96.8	74.0	58.8	46.8	38.6	35.4	35.4
47.5°	2411.9	1077.9	125.2	103.7	85.4	63.3	50.0	38.0	31.0	27.8	27.8
50°	2790.8	1215.1	114.5	93.6	75.9	54.4	40.5	31.0	24.0	21.5	20.9
52.5°	3186.8	1384.7	101.8	84.8	65.2	46.2	32.9	24.0	18.3	16.4	15.8
55°	3623.9	1550.4	89.8	75.9	53.1	38.6	25.9	19.0	13.3	11.4	11.4
57.5°	4064.8	1713.0	75.3	63.3	41.7	28.5	20.2	13.9	8.9	7.0	7.0
60°	4438.0	1765.5	63.9	51.2	31.6	20.2	14.5	8.9	5.1	3.2	3.2
62.5°	4489.2	1588.3	53.8	39.2	22.8	13.9	7.6	5.1	1.9	1.3	1.3
65°	4210.9	1290.4	44.9	29.7	15.2	7.0	3.2	1.9	0.6	0.0	0.0
67°	3773.2	1046.2	36.7	22.1	10.8	4.4	1.9	0.6	0.0	0.0	0.0
67.5°	3661.2	997.5	35.4	20.9	9.5	3.8	1.3	0.6	0.0	0.0	0.0
70°	2873.1	747.0	25.3	12.7	5.7	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	1785.7	422.5	18.3	7.6	3.8	1.3	0.0	0.0	0.0	0.0	0.0
75°	674.9	148.0	12.7	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	210.0	56.3	7.6	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	70.8	21.5	5.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.6	8.9	3.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.2	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	1.3	0.6	0.0	0.0	0.0	0.0	0.0	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)