

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: P946978

Luminaire Tested: **GALN-SB2C-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-722-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12297 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 100.9
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

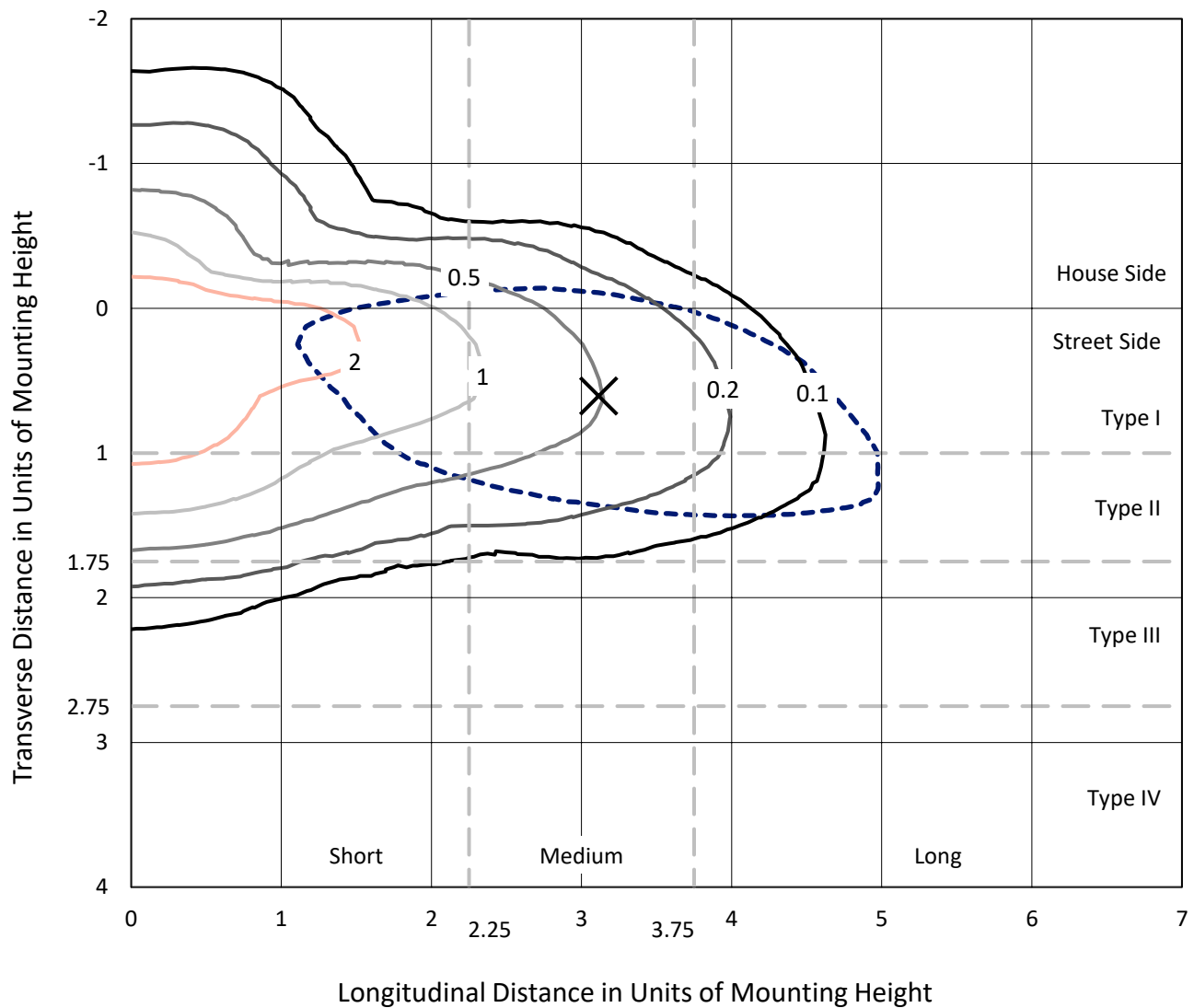


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Iso-Footcandle Lines of Horizontal Illumination

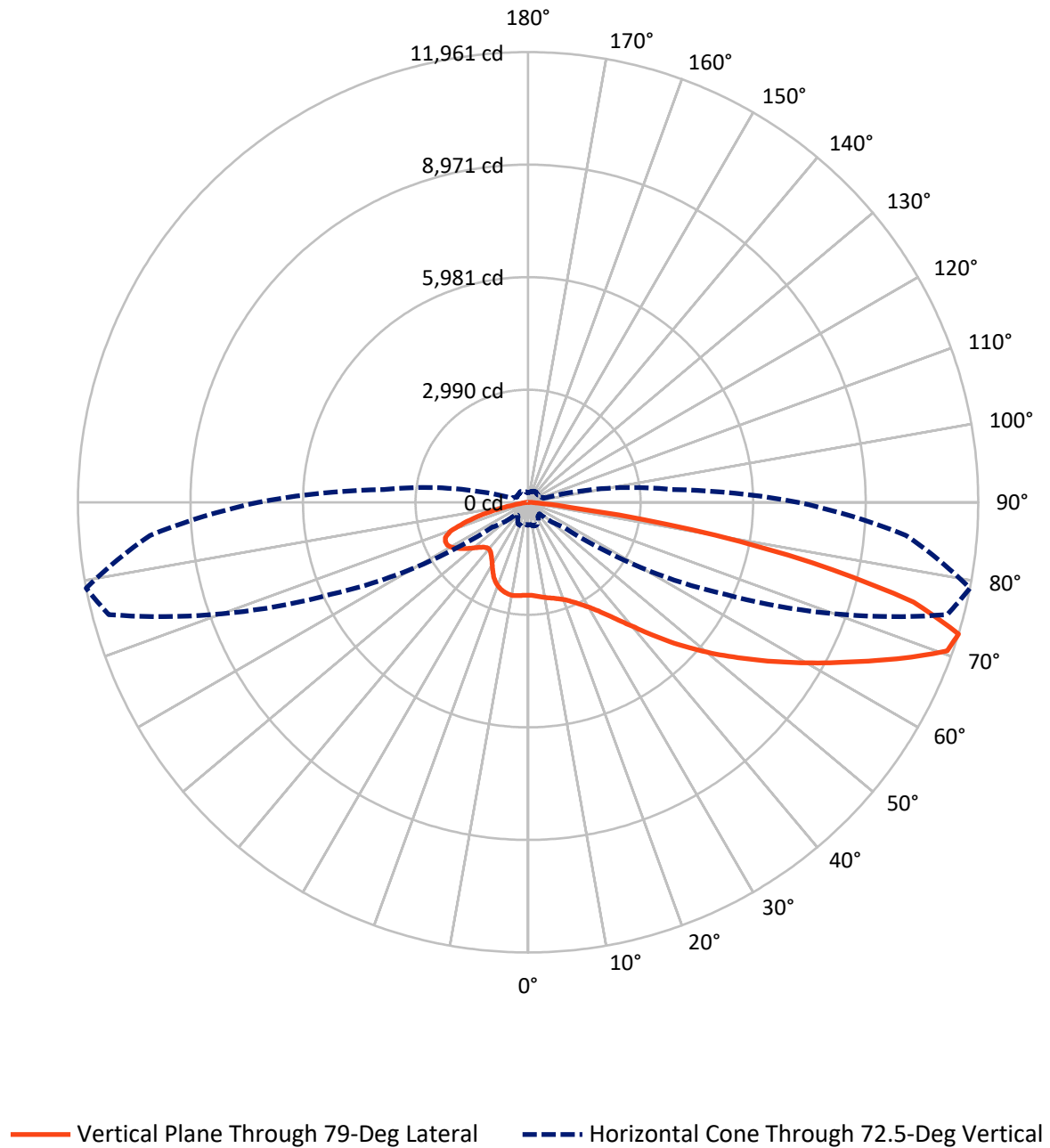
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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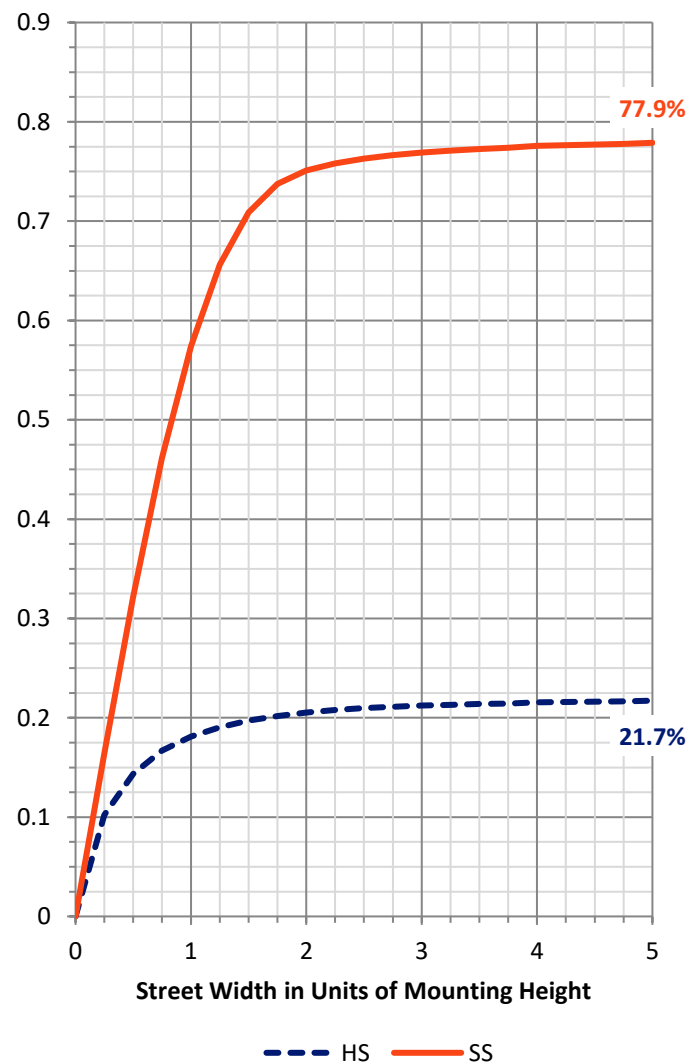
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2706.0	0.0	2706.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	9591.0	0.0	9591.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	12297.0	0.0	12297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	1.8
10°-20°	585.8	4.8
20°-30°	945.3	7.7
30°-40°	1418.7	11.5
40°-50°	2012.6	16.4
50°-60°	2541.6	20.7
60°-70°	2581.3	21.0
70°-80°	1759.3	14.3
80°-90°	228.3	1.9
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°	12297.0	100.0
0°-180°	12297.0	100.0

Coefficient of Utilization



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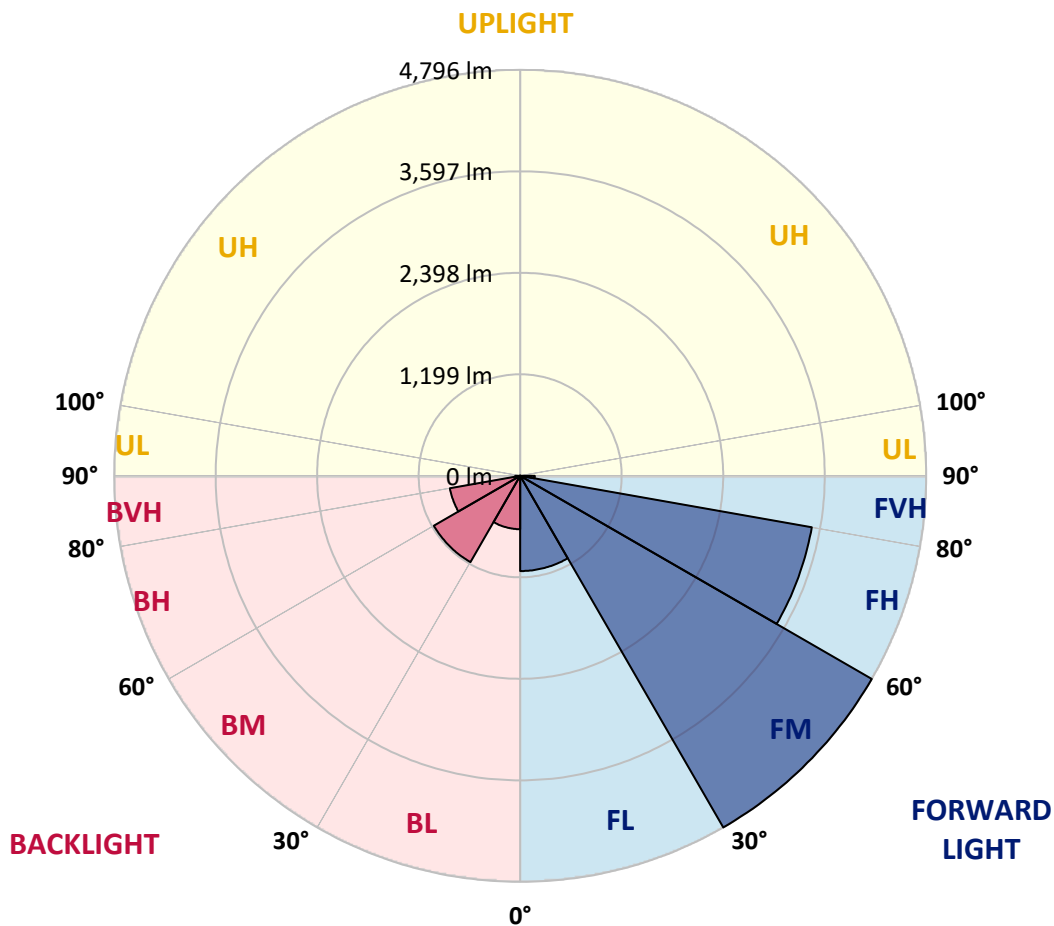
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1124.9	9.1			
FM	(30°-60°)	4796.1	39.0			
FH	(60°-80°)	3498.1	28.4			G2/5000
FVH	(80°-90°)	171.9	1.4			G2/225
BL	(0°-30°)	630.3	5.1	B2/1000		
BM	(30°-60°)	1176.8	9.6	B2/2500		
BH	(60°-80°)	842.6	6.9	B2/1000		G2/1000
BVH	(80°-90°)	56.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5
2.5°	2469.8	2458.1	2465.3	2462.7	2465.9	2469.8	2471.1	2473.1	2479.6	2478.9	2478.3
5°	2464.6	2452.9	2462.7	2459.4	2467.9	2477.0	2484.8	2491.9	2502.3	2506.9	2500.4
7.5°	2453.5	2445.7	2455.5	2465.3	2480.9	2494.5	2505.6	2521.8	2536.8	2539.4	2544.0
10°	2389.1	2383.3	2406.1	2431.4	2474.4	2511.4	2535.5	2554.4	2570.6	2573.2	2579.7
12.5°	2322.2	2315.0	2340.4	2374.8	2444.4	2511.4	2562.2	2586.9	2601.2	2609.7	2619.4
15°	2311.1	2305.2	2319.5	2349.5	2407.4	2493.9	2580.4	2625.9	2638.3	2648.0	2651.9
17.5°	2364.4	2353.4	2359.2	2369.6	2403.5	2477.6	2594.7	2670.1	2689.0	2699.4	2699.4
20°	2488.0	2472.4	2463.3	2442.5	2436.6	2480.2	2593.4	2723.5	2748.2	2761.2	2764.5
22.5°	2652.6	2642.2	2622.7	2570.0	2512.7	2512.1	2618.1	2791.8	2838.0	2850.3	2842.5
25°	2851.6	2836.0	2811.3	2739.7	2629.8	2575.2	2659.7	2878.9	2956.4	2959.6	2936.8
27.5°	3080.6	3057.2	3023.4	2929.0	2780.7	2674.1	2723.5	2979.1	3092.3	3091.0	3044.2
30°	3321.9	3298.5	3262.7	3148.2	2961.6	2807.4	2812.0	3087.1	3253.6	3246.5	3166.5
32.5°	3498.2	3480.6	3473.5	3385.0	3169.7	2964.8	2913.4	3206.8	3452.7	3446.2	3334.3
35°	3633.5	3610.7	3619.2	3574.3	3396.7	3141.1	3037.7	3349.2	3694.6	3694.0	3554.8
37.5°	3767.5	3747.3	3754.5	3724.5	3606.8	3364.8	3189.2	3523.6	3994.5	4008.8	3821.5
40°	3889.8	3868.3	3896.9	3869.0	3770.1	3602.9	3361.6	3720.6	4341.8	4369.2	4144.1
42.5°	3963.3	3946.4	3993.8	3994.5	3911.9	3803.9	3550.9	3937.9	4743.8	4805.0	4540.9
45°	3988.6	3982.8	4054.3	4069.3	4037.4	3920.3	3721.3	4174.7	5177.0	5286.3	4993.0
47.5°	3961.3	3950.3	4049.1	4104.4	4129.8	3975.0	3862.4	4431.0	5619.3	5779.4	5486.0
50°	3823.4	3802.0	3949.0	4065.4	4155.8	4010.8	4004.9	4726.9	6122.2	6297.1	5981.7
52.5°	3575.6	3559.3	3726.5	3928.8	4098.6	4028.3	4164.9	5050.2	6599.6	6826.0	6489.7
55°	3258.8	3237.4	3421.4	3685.5	3956.1	4022.5	4324.9	5411.8	7162.9	7392.5	7014.6
57.5°	2756.7	2713.7	2946.6	3258.8	3723.9	4015.3	4491.4	5771.6	7735.3	8010.4	7574.6
60°	2024.2	1960.5	2246.0	2616.2	3269.9	3945.7	4697.6	6174.8	8422.2	8670.0	8186.1
62.5°	1178.6	1141.6	1328.2	1673.6	2464.6	3535.9	4813.4	6643.8	9097.4	9357.6	8787.1
65°	915.2	904.8	921.1	947.7	1371.8	2647.4	4456.3	7101.1	9956.0	10138.1	9413.5
67.5°	837.1	829.3	836.5	786.4	696.0	1474.6	3525.5	7216.9	10875.7	10986.3	9961.8
70°	744.1	735.0	758.4	715.5	547.7	670.6	2277.9	6796.7	11607.5	11815.0	10378.8
72.5°	606.2	595.8	650.5	630.9	461.2	430.6	1144.2	5798.2	11530.8	11961.4	10080.2
75°	465.7	459.9	524.9	541.2	376.0	338.9	549.0	4310.0	10147.2	10581.1	8687.6
77.5°	361.7	357.1	390.3	449.5	303.1	262.8	337.6	2733.9	7646.8	7722.9	5986.9
80°	271.2	258.2	288.8	348.0	236.1	191.9	229.0	1594.3	4833.6	4381.5	2605.8
82.5°	169.8	163.3	188.6	232.2	166.5	132.0	149.0	880.7	1937.1	1140.9	502.8
85°	96.9	94.3	102.8	132.7	90.4	76.1	85.2	389.0	353.9	243.3	151.6
87.5°	39.0	37.7	46.8	59.2	33.2	28.0	29.9	93.7	78.1	72.2	50.1
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°	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5
2.5°	2475.7	2475.7	2466.6	2452.2	2436.0	2425.6	2408.7	2404.1	2386.5	2381.3	2389.8
5°	2505.6	2500.4	2472.4	2432.1	2376.8	2326.1	2270.1	2235.0	2185.6	2168.0	2181.0
7.5°	2543.3	2529.0	2480.9	2392.4	2276.6	2162.8	2044.4	1954.6	1868.8	1838.2	1842.1
10°	2577.8	2557.6	2475.7	2320.9	2120.5	1923.4	1734.8	1602.7	1502.6	1461.6	1470.7
12.5°	2612.3	2575.2	2441.2	2201.8	1898.7	1631.4	1430.4	1327.6	1265.8	1216.4	1232.6
15°	2644.8	2592.7	2387.8	2042.5	1655.4	1384.2	1235.9	1153.9	1104.5	1072.0	1077.8
17.5°	2682.5	2607.7	2307.8	1840.2	1423.9	1213.1	1092.1	1042.7	1032.9	1029.0	1031.6
20°	2735.2	2621.4	2202.5	1613.8	1253.4	1076.5	1014.1	1009.5	1008.9	1006.9	1013.4
22.5°	2791.8	2637.6	2063.3	1408.3	1108.4	991.3	980.2	971.1	965.3	964.6	971.8
25°	2858.8	2642.8	1888.9	1239.8	984.8	951.0	938.0	924.3	920.4	920.4	924.3
27.5°	2923.8	2625.3	1686.0	1093.4	915.2	913.9	897.0	892.4	891.8	893.7	898.9
30°	2988.9	2592.1	1484.4	958.1	874.9	874.9	869.0	872.3	874.9	881.4	885.9
32.5°	3076.7	2557.0	1315.9	858.0	839.7	833.2	839.1	845.6	848.2	856.7	863.8
35°	3205.5	2532.3	1181.9	803.3	803.3	794.9	798.1	796.8	791.0	787.1	796.2
37.5°	3375.9	2531.0	1071.3	778.0	772.7	771.4	772.1	763.6	740.9	713.6	714.2
40°	3580.8	2566.1	986.1	760.4	756.5	764.3	760.4	737.6	675.2	627.7	626.4
42.5°	3855.9	2666.2	931.5	738.9	750.6	760.4	744.8	666.1	623.8	591.9	590.6
45°	4179.9	2828.9	903.5	716.2	739.6	751.3	675.8	641.4	607.5	569.2	566.6
47.5°	4546.7	3033.8	897.0	694.7	714.9	722.0	646.6	630.9	592.6	550.9	547.7
50°	4946.1	3276.4	914.6	669.3	679.1	654.4	636.8	622.5	582.8	541.8	537.3
52.5°	5359.2	3543.7	949.7	634.9	643.3	616.0	632.9	620.5	577.0	521.7	517.8
55°	5765.1	3813.0	983.5	594.5	606.9	581.5	621.8	612.7	550.3	487.8	484.6
57.5°	6177.4	4081.0	1016.7	558.7	571.8	548.3	604.3	591.9	520.4	456.6	455.3
60°	6606.1	4341.2	1032.3	524.3	533.4	517.8	577.6	556.1	486.5	424.8	422.8
62.5°	7007.4	4557.8	1006.9	489.8	495.7	489.1	542.5	513.9	452.7	389.0	388.3
65°	7410.1	4686.6	928.9	456.0	457.3	454.0	493.1	468.3	413.0	357.8	353.9
67.5°	7775.0	4758.8	804.6	419.5	416.3	415.0	446.9	418.9	374.7	326.5	322.6
70°	7852.4	4575.4	614.7	376.6	376.6	373.4	396.1	367.5	332.4	293.4	292.1
72.5°	7172.0	3848.8	436.5	327.8	333.0	326.5	345.4	321.3	289.5	263.4	255.6
75°	5783.3	2822.4	317.4	277.7	286.9	275.8	293.4	276.4	249.1	248.5	223.8
77.5°	3973.7	1745.2	230.3	229.0	235.5	221.2	241.3	232.2	207.5	196.4	184.1
80°	1695.8	696.0	167.8	176.9	176.9	163.9	187.3	189.9	168.5	163.3	163.3
82.5°	337.6	197.7	117.7	121.6	114.5	110.6	132.7	147.0	202.9	225.7	226.4
85°	101.5	72.9	70.9	66.3	58.5	59.2	78.1	147.7	182.1	104.1	89.8
87.5°	28.0	18.2	18.9	15.0	12.4	16.3	26.7	111.9	61.1	26.0	22.1
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)