

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: P939912

Luminaire Tested: **GALN-SB2D-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18711 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 147.6
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



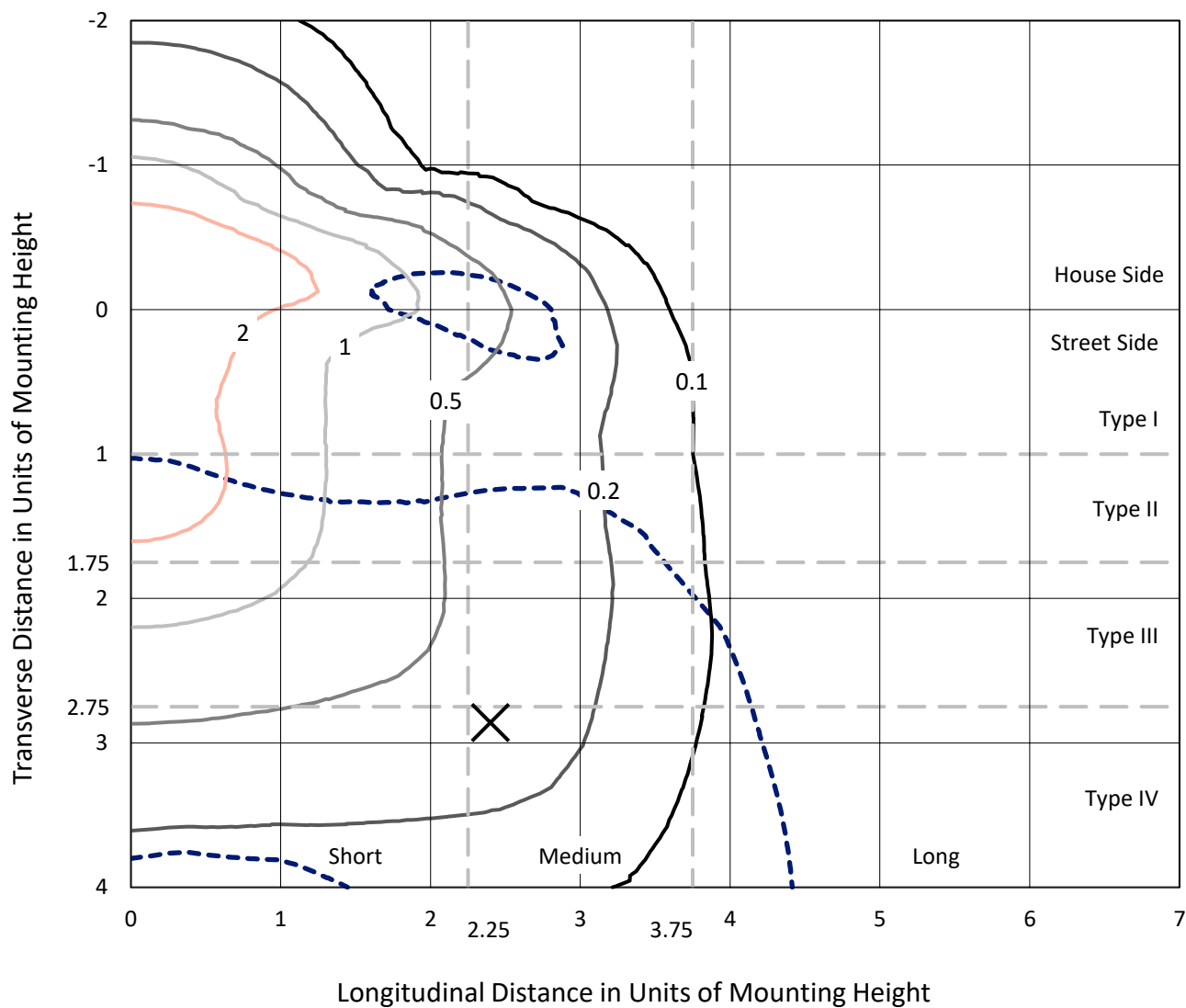
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

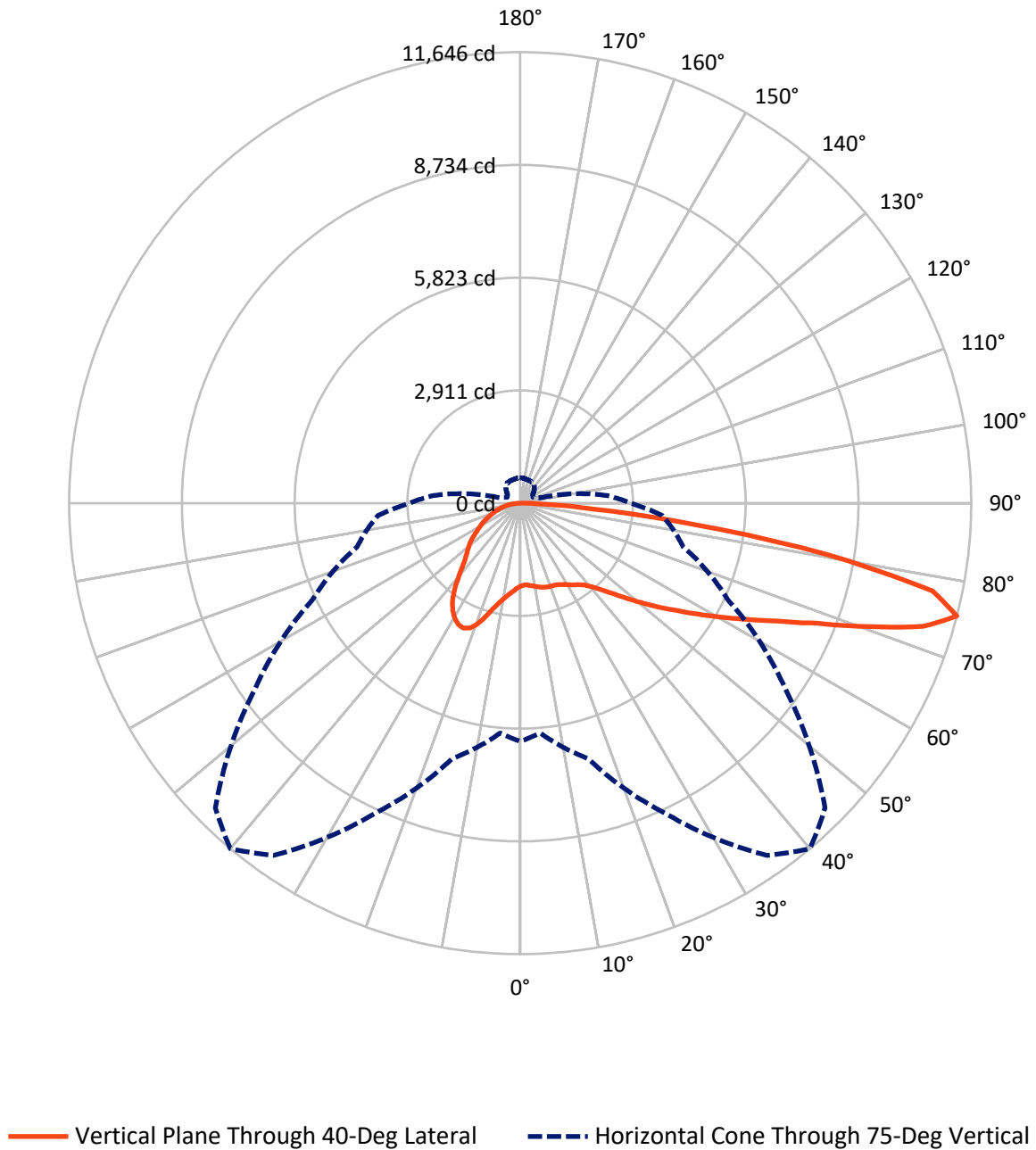


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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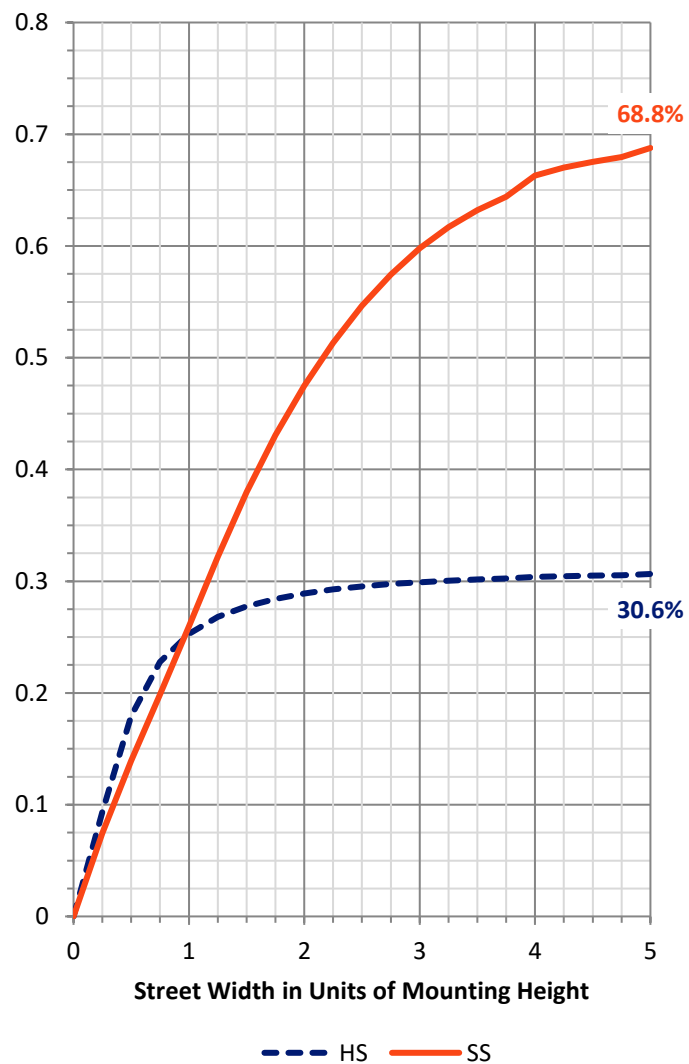
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5797.3	0.0	5797.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	12913.7	0.0	12913.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	18711.0	0.0	18711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	1.1
10°-20°	717.1	3.8
20°-30°	1309.3	7.0
30°-40°	1857.0	9.9
40°-50°	2507.5	13.4
50°-60°	3373.2	18.0
60°-70°	4281.4	22.9
70°-80°	3885.6	20.8
80°-90°	566.4	3.0
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°	18711.0	100.0
0°-180°	18711.0	100.0

Coefficient of Utilization



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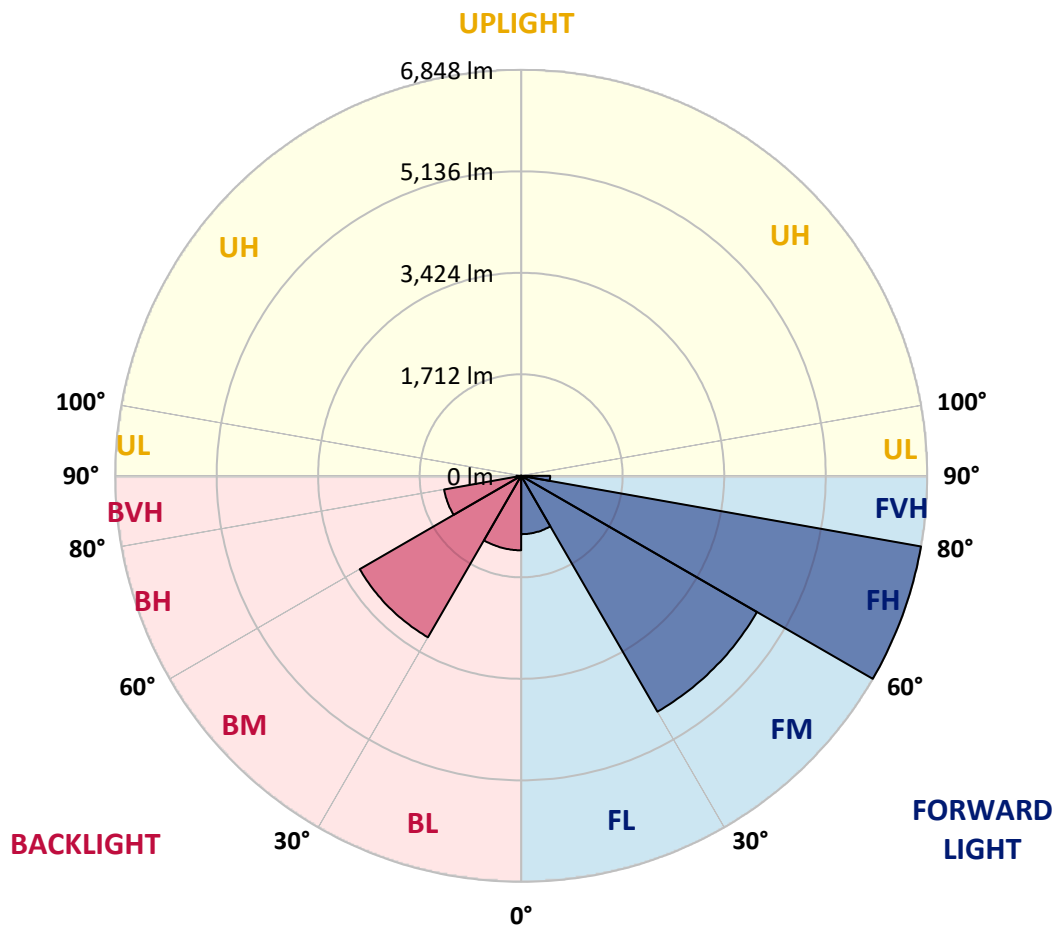
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	984.2	5.3			
FM	(30°-60°)	4593.1	24.5			
FH	(60°-80°)	6847.9	36.6			G3/7500
FVH	(80°-90°)	488.4	2.6			G3/500
BL	(0°-30°)	1255.7	6.7	B3/2500		
BM	(30°-60°)	3144.5	16.8	B3/5000		
BH	(60°-80°)	1319.1	7.0	B3/2500		G3/2500
BVH	(80°-90°)	78.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2139.6	2139.6	2139.6	2139.6	2139.6	2139.6	2139.6	2139.6	2139.6	2139.6	2139.6
2.5°	2106.9	2118.8	2115.8	2111.8	2111.8	2112.8	2111.8	2118.8	2125.7	2132.7	2143.6
5°	2128.7	2140.6	2134.7	2129.7	2125.7	2124.7	2121.8	2120.8	2124.7	2133.7	2148.6
7.5°	2171.4	2183.3	2174.4	2165.4	2157.5	2153.5	2149.6	2143.6	2140.6	2145.6	2166.4
10°	2219.0	2230.9	2220.0	2204.1	2191.2	2186.3	2182.3	2176.3	2172.4	2175.4	2198.2
12.5°	2266.7	2278.6	2263.7	2241.8	2225.0	2222.0	2217.0	2215.1	2214.1	2213.1	2235.9
15°	2311.3	2321.2	2302.4	2276.6	2258.7	2253.8	2248.8	2251.8	2256.7	2262.7	2288.5
17.5°	2346.0	2356.0	2328.2	2294.4	2277.6	2275.6	2272.6	2282.5	2296.4	2311.3	2343.1
20°	2377.8	2387.7	2352.0	2306.4	2286.5	2286.5	2287.5	2308.3	2328.2	2350.0	2393.7
22.5°	2422.5	2430.4	2386.7	2324.2	2295.4	2297.4	2305.4	2326.2	2351.0	2380.8	2441.3
25°	2489.0	2494.9	2441.3	2358.0	2325.2	2331.2	2338.1	2348.0	2371.9	2406.6	2488.0
27.5°	2596.1	2601.1	2530.6	2417.5	2367.9	2377.8	2387.7	2380.8	2391.7	2421.5	2525.7
30°	2747.0	2750.0	2660.6	2510.8	2440.3	2445.3	2447.3	2418.5	2397.7	2421.5	2552.5
32.5°	2925.6	2924.6	2818.4	2623.9	2522.7	2517.7	2500.9	2444.3	2395.7	2416.5	2576.3
35°	3202.5	3191.6	3054.6	2782.7	2616.0	2585.2	2545.5	2473.1	2405.6	2411.5	2597.1
37.5°	3661.0	3627.2	3437.7	3042.7	2754.9	2676.5	2618.0	2519.7	2427.4	2409.6	2621.9
40°	4178.0	4135.4	3927.0	3399.0	2963.3	2837.3	2743.0	2586.2	2463.2	2418.5	2658.7
42.5°	4791.3	4730.8	4506.5	3818.8	3227.3	3044.7	2902.8	2670.6	2515.7	2447.3	2708.3
45°	5544.6	5464.2	5146.6	4292.2	3559.8	3316.6	3127.1	2798.6	2596.1	2502.8	2782.7
47.5°	6305.7	6325.6	5874.1	4834.0	3958.7	3652.1	3407.9	2991.1	2713.2	2592.2	2902.8
50°	7114.6	7128.5	6597.5	5434.4	4411.2	4031.2	3723.5	3206.5	2876.0	2719.2	3082.4
52.5°	7745.7	7747.7	7254.5	6062.6	4882.6	4448.0	4063.9	3452.6	3064.6	2887.9	3321.6
55°	8140.7	8135.7	7715.0	6657.1	5424.5	4885.6	4441.0	3732.4	3294.8	3086.4	3622.3
57.5°	8427.5	8412.6	8032.5	7168.2	6002.1	5402.7	4867.8	4050.0	3566.7	3322.6	4018.3
60°	8536.7	8527.7	8247.9	7609.8	6609.4	5974.3	5360.0	4405.3	3875.3	3601.4	4527.4
62.5°	8578.4	8595.2	8459.3	8037.5	7259.5	6607.4	5900.8	4830.0	4222.7	3917.0	5064.2
65°	8725.2	8756.0	8728.2	8597.2	7993.8	7348.8	6618.4	5335.2	4601.8	4255.4	5625.0
67.5°	9016.0	9046.8	9058.7	9267.1	8891.0	8272.7	7513.5	5964.4	5045.4	4606.7	6046.7
70°	9009.1	9000.1	9210.5	9800.0	10014.4	9551.9	8720.3	6738.4	5574.3	4898.5	6100.3
72.5°	8200.3	8128.8	8626.0	9794.1	10949.2	10887.7	10194.0	7736.8	6030.9	4934.2	5293.5
75°	6151.9	5961.4	6839.7	8826.5	11105.0	11645.9	11130.8	8356.1	5922.7	4359.6	3683.8
77.5°	2630.9	2439.3	3474.4	6534.0	9938.9	10886.7	10271.4	7290.2	4727.8	2882.9	1809.2
80°	688.7	687.7	1050.0	2962.3	6759.3	8039.5	7053.0	4708.0	2701.3	1030.1	499.2
82.5°	284.8	277.9	386.0	1152.2	3302.7	4511.5	3681.8	2099.9	975.5	278.9	165.7
85°	106.2	105.2	187.6	398.0	1165.1	1860.8	1346.7	536.9	243.1	136.0	74.4
87.5°	29.8	28.8	40.7	137.9	283.8	430.7	230.2	88.3	68.5	53.6	21.8
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°	2139.6	2139.6	2139.6	2139.6	2139.6	2139.6	2139.6	2139.6	2139.6	2139.6	2139.6
2.5°	2146.6	2151.5	2160.5	2167.4	2176.3	2186.3	2200.2	2209.1	2218.0	2224.0	2220.0
5°	2155.5	2166.4	2189.2	2212.1	2238.9	2263.7	2292.5	2313.3	2330.2	2335.1	2337.1
7.5°	2175.4	2193.2	2231.9	2270.6	2313.3	2354.0	2395.7	2431.4	2460.2	2471.1	2472.1
10°	2210.1	2233.9	2288.5	2343.1	2399.6	2462.2	2515.7	2567.4	2608.0	2624.9	2625.9
12.5°	2253.8	2283.5	2355.0	2430.4	2508.8	2595.1	2664.6	2728.1	2778.7	2801.6	2801.6
15°	2310.3	2349.0	2440.3	2541.6	2656.7	2776.8	2865.1	2935.5	2992.1	3019.9	3017.9
17.5°	2371.9	2423.5	2538.6	2691.4	2856.1	3013.9	3117.1	3168.8	3227.3	3254.1	3253.1
20°	2431.4	2494.9	2659.6	2881.9	3101.3	3269.0	3352.3	3366.2	3370.2	3373.2	3381.1
22.5°	2492.9	2578.3	2811.5	3122.1	3357.3	3473.4	3485.3	3425.8	3342.4	3303.7	3314.6
25°	2560.4	2673.5	3010.0	3387.1	3577.6	3591.5	3500.2	3355.3	3197.5	3125.1	3136.0
27.5°	2625.9	2783.7	3248.1	3640.1	3736.4	3614.3	3417.8	3212.4	3021.9	2945.5	2954.4
30°	2691.4	2909.7	3511.1	3861.5	3808.9	3557.8	3287.8	3058.6	2867.1	2786.7	2795.6
32.5°	2757.9	3056.6	3813.8	4021.2	3796.0	3437.7	3126.1	2885.9	2717.2	2632.9	2643.8
35°	2833.3	3237.2	4100.6	4108.6	3709.6	3261.0	2912.7	2679.5	2532.6	2465.1	2480.0
37.5°	2931.6	3466.5	4353.7	4130.4	3558.8	3002.0	2647.7	2435.4	2314.3	2283.5	2305.4
40°	3053.6	3742.4	4547.2	4095.7	3335.5	2687.4	2358.0	2188.3	2119.8	2126.7	2150.5
42.5°	3212.4	4051.0	4683.2	4006.3	3024.9	2362.9	2103.9	2028.5	2061.2	2089.0	2114.8
45°	3418.8	4371.5	4767.5	3854.5	2673.5	2088.0	1954.0	1971.9	1996.7	1999.7	2019.5
47.5°	3682.8	4696.1	4823.1	3625.3	2315.3	1894.5	1858.8	1862.7	1857.8	1836.9	1852.8
50°	4012.3	5011.7	4872.7	3321.6	2010.6	1773.4	1725.8	1711.9	1643.4	1575.9	1584.9
52.5°	4387.4	5301.4	4893.6	2944.5	1773.4	1672.2	1594.8	1507.5	1379.4	1358.6	1365.6
55°	4804.2	5569.4	4840.0	2481.0	1574.0	1542.2	1425.1	1319.9	1306.0	1288.1	1291.1
57.5°	5302.4	5858.2	4730.8	1964.0	1369.5	1390.4	1276.2	1288.1	1263.3	1235.5	1230.6
60°	5847.3	6156.9	4539.3	1492.6	1158.1	1200.8	1237.5	1236.5	1229.6	1206.8	1198.8
62.5°	6337.5	6353.4	4162.2	1143.3	972.6	1053.9	1154.2	1153.2	1147.2	1134.3	1129.4
65°	6629.3	6323.6	3533.0	900.1	819.7	932.9	1041.0	1049.0	1050.0	1049.0	1049.0
67.5°	6577.7	5975.3	2669.6	716.5	693.7	809.8	928.9	939.8	947.7	949.7	951.7
70°	5994.1	5210.1	1740.7	571.6	581.6	701.6	822.7	833.6	840.6	848.5	852.5
72.5°	4672.2	3830.7	996.4	462.5	483.3	608.3	717.5	730.4	734.4	749.3	755.2
75°	2847.2	2252.8	537.9	364.2	397.0	520.0	613.3	628.2	635.1	653.0	655.0
77.5°	1353.6	975.5	306.7	283.8	319.6	424.7	518.0	534.9	516.1	526.0	518.0
80°	457.5	362.2	193.5	216.3	244.1	331.5	414.8	431.7	392.0	390.0	386.0
82.5°	159.8	146.9	123.1	143.9	157.8	237.2	313.6	335.4	291.8	290.8	276.9
85°	62.5	59.5	68.5	78.4	94.3	145.9	206.4	217.3	179.6	144.9	142.9
87.5°	12.9	13.9	16.9	17.9	28.8	50.6	74.4	91.3	72.4	61.5	56.6
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)