

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: P946999

Luminaire Tested: **GALN-SB2C-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946999
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-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 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: 13808 lumens
Efficiency: N/A
Efficacy: 136.8 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

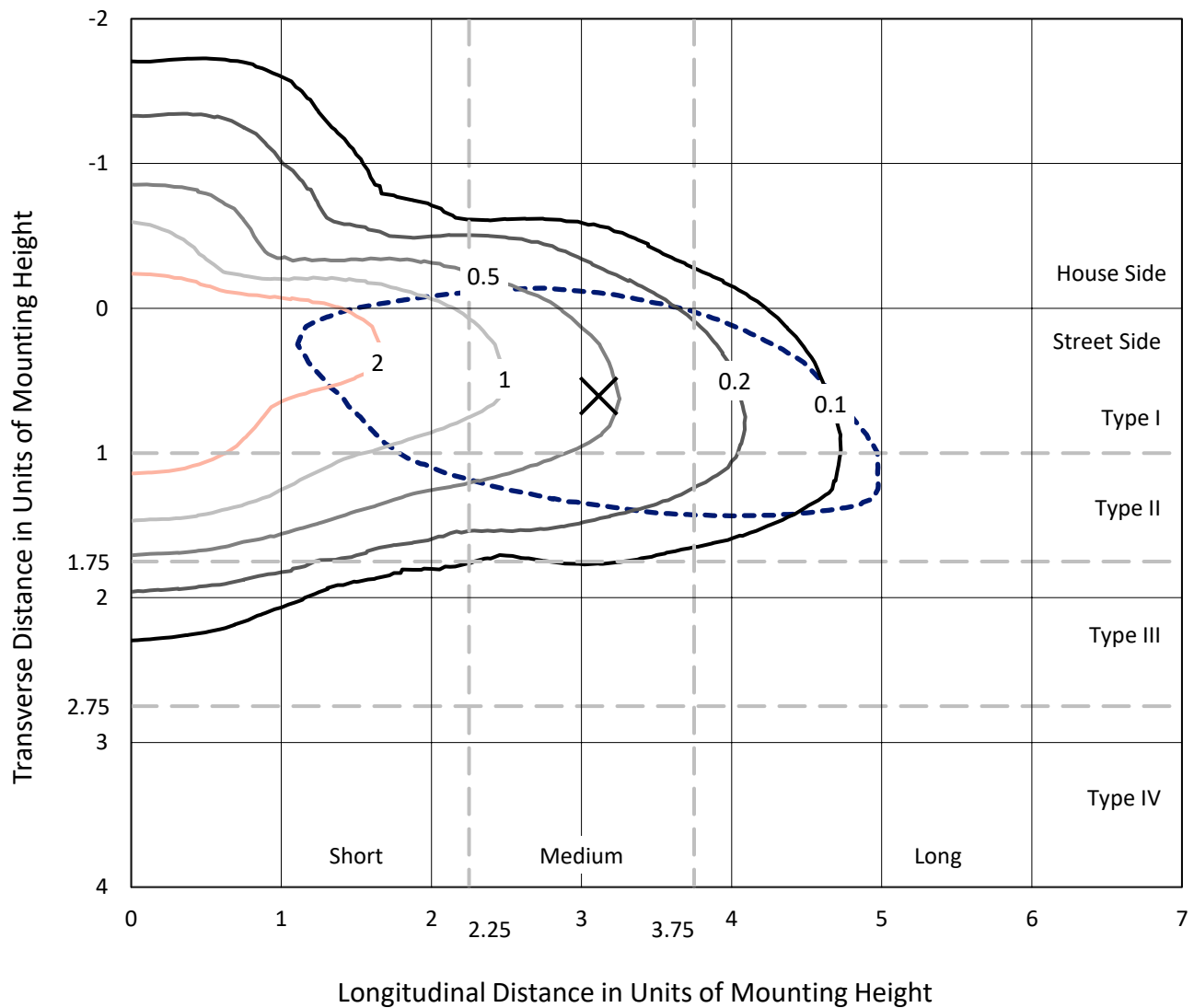


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Iso-Footcandle Lines of Horizontal Illumination

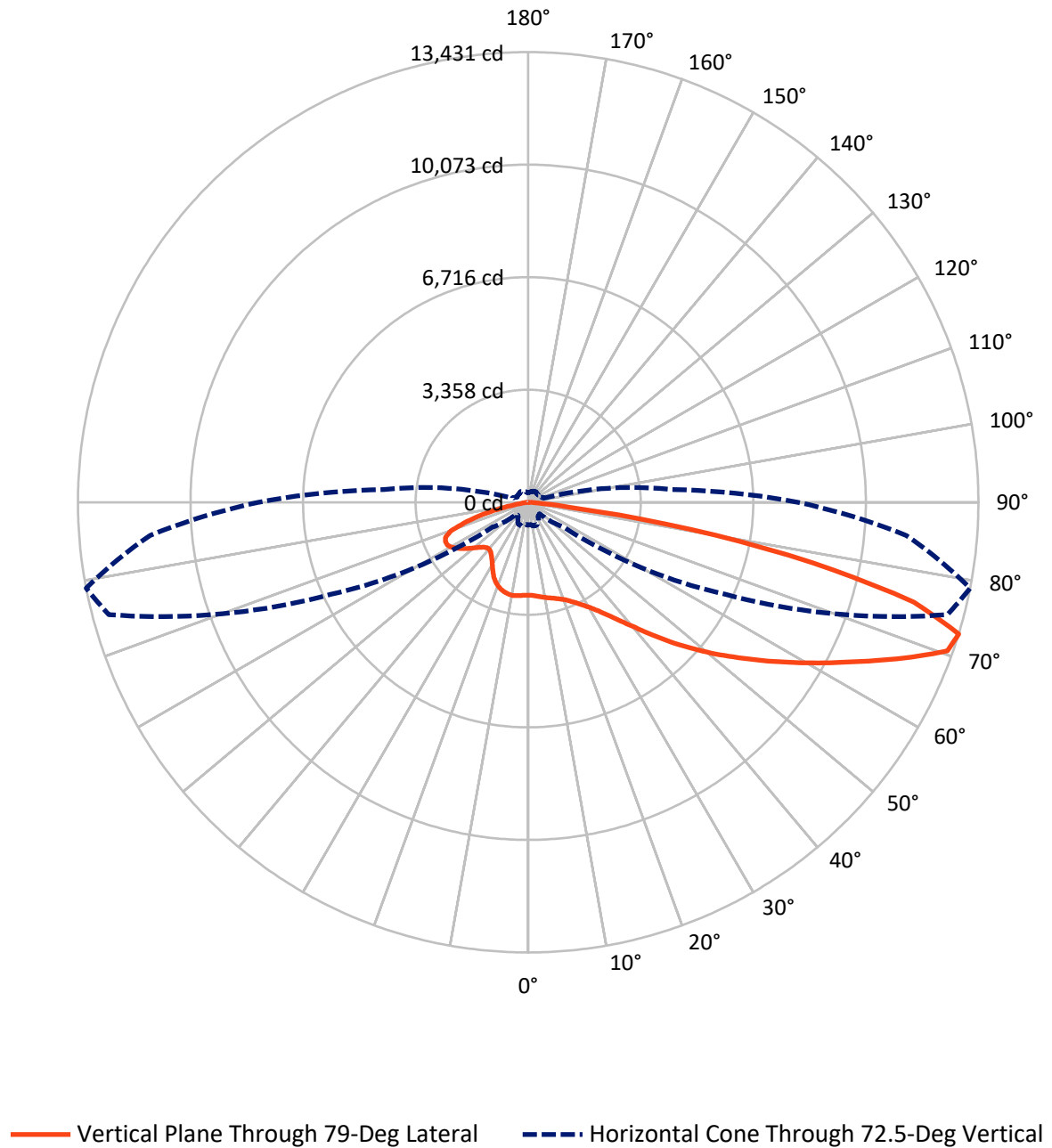
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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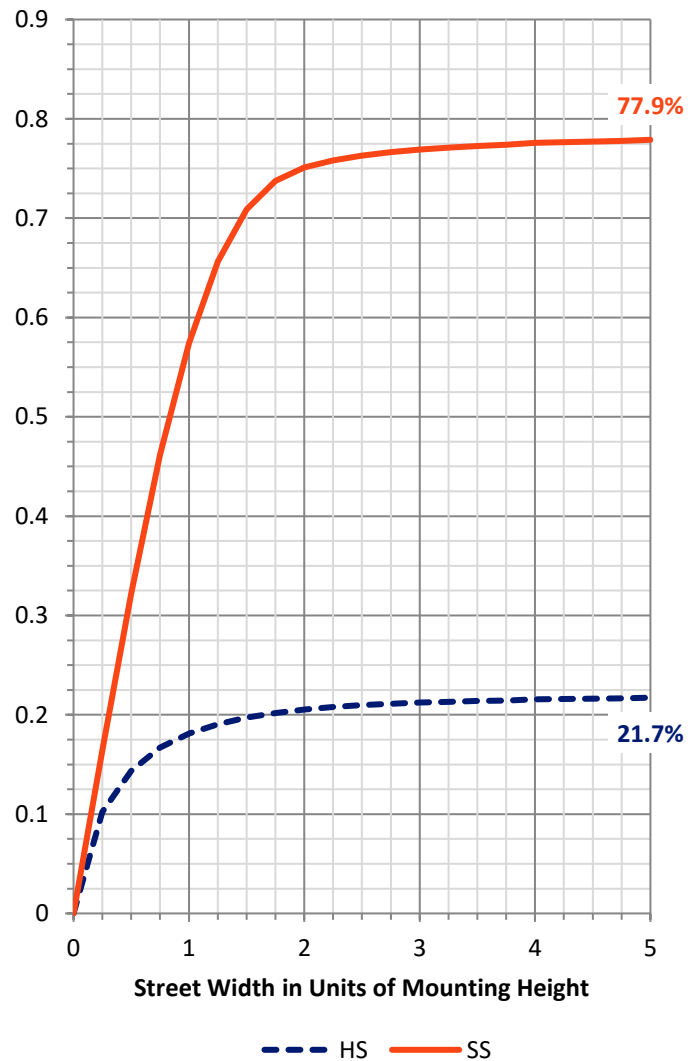
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3038.5	0.0	3038.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	10769.5	0.0	10769.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	13808.0	0.0	13808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.6	1.8
10°-20°	657.8	4.8
20°-30°	1061.4	7.7
30°-40°	1593.1	11.5
40°-50°	2259.9	16.4
50°-60°	2853.9	20.7
60°-70°	2898.5	21.0
70°-80°	1975.5	14.3
80°-90°	256.3	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°	13808.0	100.0
0°-180°	13808.0	100.0

Coefficient of Utilization



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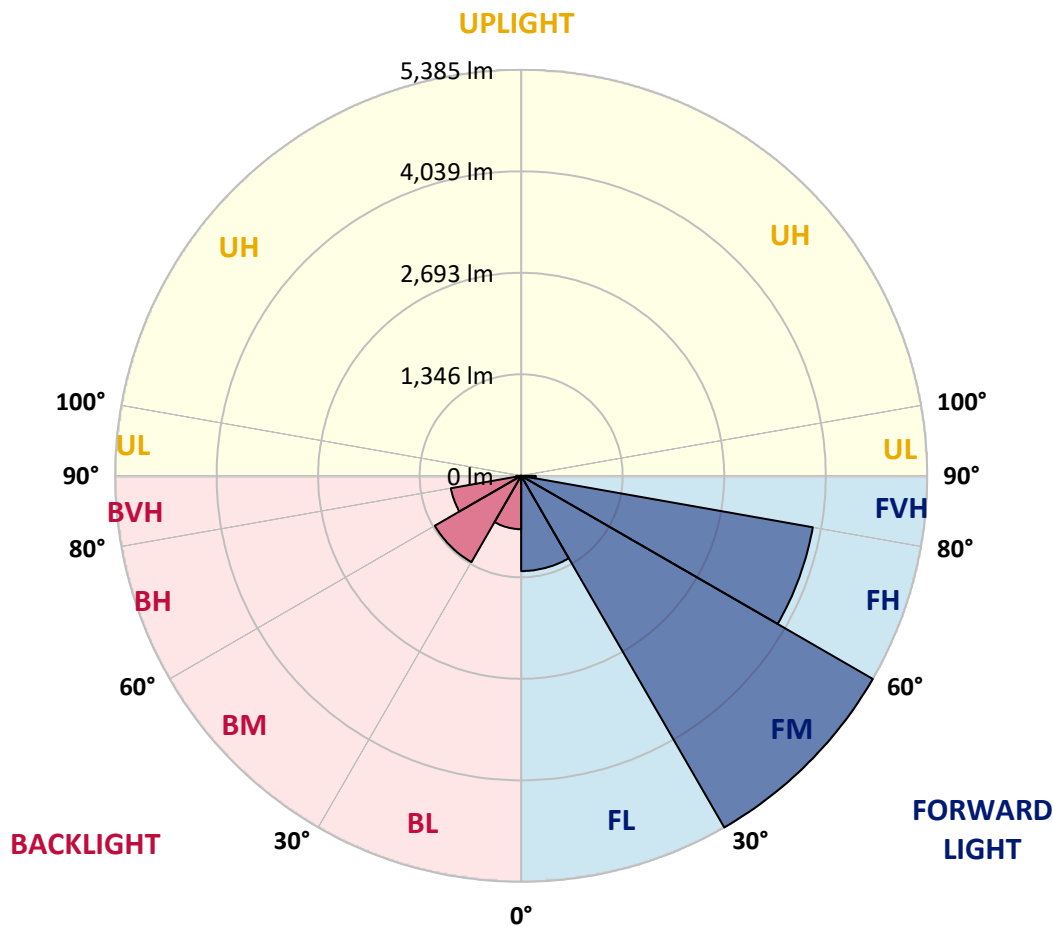
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1263.1	9.1			
FM	(30°-60°)	5385.4	39.0			
FH	(60°-80°)	3927.9	28.4			G2/5000
FVH	(80°-90°)	193.1	1.4			G2/225
BL	(0°-30°)	707.8	5.1	B2/1000		
BM	(30°-60°)	1321.4	9.6	B2/2500		
BH	(60°-80°)	946.1	6.9	B2/1000		G2/1000
BVH	(80°-90°)	63.2	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°	2771.8	2771.8	2771.8	2771.8	2771.8	2771.8	2771.8	2771.8	2771.8	2771.8	2771.8
2.5°	2773.3	2760.1	2768.2	2765.3	2768.9	2773.3	2774.7	2776.9	2784.2	2783.5	2782.8
5°	2767.4	2754.3	2765.3	2761.6	2771.1	2781.3	2790.1	2798.1	2809.8	2814.9	2807.6
7.5°	2755.0	2746.3	2757.2	2768.2	2785.7	2801.0	2813.5	2831.7	2848.5	2851.4	2856.5
10°	2682.7	2676.1	2701.7	2730.2	2778.4	2820.0	2847.1	2868.2	2886.5	2889.4	2896.7
12.5°	2607.5	2599.5	2627.9	2666.6	2744.8	2820.0	2877.0	2904.8	2920.8	2930.3	2941.3
15°	2595.1	2588.5	2604.6	2638.2	2703.2	2800.3	2897.5	2948.6	2962.5	2973.4	2977.8
17.5°	2655.0	2642.5	2649.1	2660.8	2698.8	2782.1	2913.5	2998.2	3019.4	3031.1	3031.1
20°	2793.7	2776.2	2766.0	2742.6	2736.0	2785.0	2912.1	3058.1	3085.9	3100.5	3104.2
22.5°	2978.5	2966.8	2944.9	2885.8	2821.5	2820.8	2939.8	3134.8	3186.7	3200.6	3191.8
25°	3202.0	3184.5	3156.7	3076.4	2953.0	2891.6	2986.6	3232.7	3319.6	3323.3	3297.7
27.5°	3459.1	3432.8	3394.8	3288.9	3122.4	3002.6	3058.1	3345.2	3472.3	3470.8	3418.2
30°	3730.1	3703.8	3663.6	3535.1	3325.5	3152.4	3157.5	3466.4	3653.4	3645.4	3555.5
32.5°	3928.0	3908.3	3900.3	3800.9	3559.2	3329.1	3271.4	3600.8	3876.9	3869.6	3744.0
35°	4080.0	4054.4	4063.9	4013.5	3814.1	3527.0	3410.9	3760.8	4148.6	4147.9	3991.6
37.5°	4230.4	4207.8	4215.8	4182.2	4050.0	3778.3	3581.1	3956.5	4485.3	4501.4	4291.0
40°	4367.7	4343.6	4375.8	4344.4	4233.3	4045.6	3774.6	4177.8	4875.3	4906.0	4653.3
42.5°	4450.3	4431.3	4484.6	4485.3	4392.6	4271.3	3987.2	4421.8	5326.7	5395.4	5098.8
45°	4478.7	4472.2	4552.5	4569.3	4533.5	4402.1	4178.6	4687.6	5813.2	5935.9	5606.5
47.5°	4448.1	4435.6	4546.7	4608.8	4637.2	4463.4	4337.0	4975.4	6309.8	6489.5	6160.1
50°	4293.2	4269.1	4434.2	4564.9	4666.5	4503.6	4497.0	5307.7	6874.4	7070.9	6716.7
52.5°	4014.9	3996.7	4184.4	4411.5	4602.2	4523.3	4676.7	5670.7	7410.5	7664.7	7287.1
55°	3659.2	3635.1	3841.8	4138.4	4442.2	4516.7	4856.4	6076.8	8043.0	8300.9	7876.5
57.5°	3095.4	3047.2	3308.7	3659.2	4181.5	4508.7	5043.3	6480.7	8685.8	8994.7	8505.4
60°	2273.0	2201.4	2522.0	2937.6	3671.7	4430.5	5274.9	6933.6	9457.1	9735.3	9191.9
62.5°	1323.5	1281.8	1491.5	1879.3	2767.4	3970.4	5404.9	7460.2	10215.2	10507.4	9866.8
65°	1027.7	1016.0	1034.2	1064.2	1540.4	2972.7	5003.9	7973.7	11179.3	11383.8	10570.2
67.5°	940.0	931.2	939.3	883.0	781.5	1655.8	3958.7	8103.7	12212.1	12336.3	11185.9
70°	835.6	825.3	851.6	803.4	615.0	753.0	2557.8	7631.8	13033.8	13266.8	11654.1
72.5°	680.7	669.0	730.4	708.5	517.8	483.5	1284.8	6510.7	12947.6	13431.1	11318.8
75°	523.0	516.4	589.4	607.7	422.2	380.5	616.4	4839.6	11394.1	11881.2	9755.1
77.5°	406.1	401.0	438.2	504.7	340.4	295.1	379.1	3069.8	8586.4	8671.9	6722.5
80°	304.6	290.0	324.3	390.8	265.1	215.5	257.1	1790.2	5427.5	4919.9	2925.9
82.5°	190.6	183.3	211.8	260.7	187.0	148.3	167.3	988.9	2175.1	1281.1	564.6
85°	108.8	105.9	115.4	149.0	101.5	85.5	95.7	436.8	397.3	273.2	170.2
87.5°	43.8	42.4	52.6	66.5	37.2	31.4	33.6	105.2	87.6	81.1	56.2
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°	2771.8	2771.8	2771.8	2771.8	2771.8	2771.8	2771.8	2771.8	2771.8	2771.8	2771.8
2.5°	2779.9	2779.9	2769.6	2753.6	2735.3	2723.6	2704.6	2699.5	2679.8	2674.0	2683.4
5°	2813.5	2807.6	2776.2	2730.9	2668.8	2611.9	2549.1	2509.6	2454.1	2434.4	2449.0
7.5°	2855.8	2839.8	2785.7	2686.4	2556.4	2428.5	2295.6	2194.8	2098.4	2064.1	2068.5
10°	2894.5	2871.9	2779.9	2606.0	2381.1	2159.8	1947.9	1799.7	1687.2	1641.2	1651.4
12.5°	2933.2	2891.6	2741.1	2472.4	2132.0	1831.8	1606.1	1490.7	1421.3	1365.8	1384.1
15°	2969.8	2911.3	2681.3	2293.4	1858.8	1554.3	1387.7	1295.7	1240.2	1203.7	1210.3
17.5°	3012.1	2928.1	2591.4	2066.3	1598.8	1362.2	1226.3	1170.8	1159.9	1155.5	1158.4
20°	3071.3	2943.5	2473.1	1812.1	1407.5	1208.8	1138.7	1133.6	1132.8	1130.6	1137.9
22.5°	3134.8	2961.7	2316.8	1581.3	1244.6	1113.1	1100.7	1090.5	1083.9	1083.2	1091.2
25°	3210.1	2967.6	2121.0	1392.1	1105.8	1067.8	1053.2	1037.9	1033.5	1033.5	1037.9
27.5°	3283.1	2947.8	1893.2	1227.8	1027.7	1026.2	1007.2	1002.1	1001.4	1003.6	1009.4
30°	3356.1	2910.6	1666.7	1075.9	982.4	982.4	975.8	979.5	982.4	989.7	994.8
32.5°	3454.7	2871.2	1477.6	963.4	942.9	935.6	942.2	949.5	952.4	961.9	970.0
35°	3599.4	2843.4	1327.1	902.0	902.0	892.5	896.2	894.7	888.2	883.8	894.0
37.5°	3790.7	2841.9	1203.0	873.5	867.7	866.2	867.0	857.5	831.9	801.2	802.0
40°	4020.8	2881.4	1107.3	853.8	849.4	858.2	853.8	828.3	758.1	704.8	703.4
42.5°	4329.7	2993.9	1045.9	829.7	842.9	853.8	836.3	747.9	700.4	664.7	663.2
45°	4693.5	3176.5	1014.5	804.2	830.5	843.6	758.9	720.2	682.2	639.1	636.2
47.5°	5105.4	3406.5	1007.2	780.1	802.7	810.7	726.0	708.5	665.4	618.6	615.0
50°	5553.9	3679.0	1026.9	751.6	762.5	734.8	715.1	699.0	654.4	608.4	603.3
52.5°	6017.7	3979.2	1066.4	712.9	722.4	691.7	710.7	696.8	647.9	585.8	581.4
55°	6473.4	4281.5	1104.3	667.6	681.5	653.0	698.3	688.0	617.9	547.8	544.1
57.5°	6936.5	4582.5	1141.6	627.4	642.0	615.7	678.5	664.7	584.3	512.7	511.3
60°	7417.8	4874.6	1159.1	588.7	598.9	581.4	648.6	624.5	546.3	476.9	474.8
62.5°	7868.5	5117.8	1130.6	550.0	556.6	549.3	609.1	577.0	508.4	436.8	436.0
65°	8320.6	5262.4	1043.0	512.0	513.5	509.8	553.6	525.9	463.8	401.7	397.3
67.5°	8730.3	5343.5	903.5	471.1	467.4	466.0	501.8	470.4	420.7	366.7	362.3
70°	8817.3	5137.6	690.2	422.9	422.9	419.2	444.8	412.7	373.2	329.4	327.9
72.5°	8053.3	4321.7	490.1	368.1	374.0	366.7	387.8	360.8	325.0	295.8	287.0
75°	6493.9	3169.2	356.4	311.9	322.1	309.7	329.4	310.4	279.7	279.0	251.3
77.5°	4461.9	1959.6	258.6	257.1	264.4	248.3	271.0	260.7	233.0	220.6	206.7
80°	1904.1	781.5	188.4	198.7	198.7	184.1	210.4	213.3	189.2	183.3	183.3
82.5°	379.1	222.0	132.2	136.6	128.5	124.2	149.0	165.1	227.9	253.4	254.2
85°	113.9	81.8	79.6	74.5	65.7	66.5	87.6	165.8	204.5	116.9	100.8
87.5°	31.4	20.5	21.2	16.8	13.9	18.3	29.9	125.6	68.7	29.2	24.8
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)