

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: P942122

Luminaire Tested: **GALN-SB6A-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942122
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-SB6A-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25010 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 170.9
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

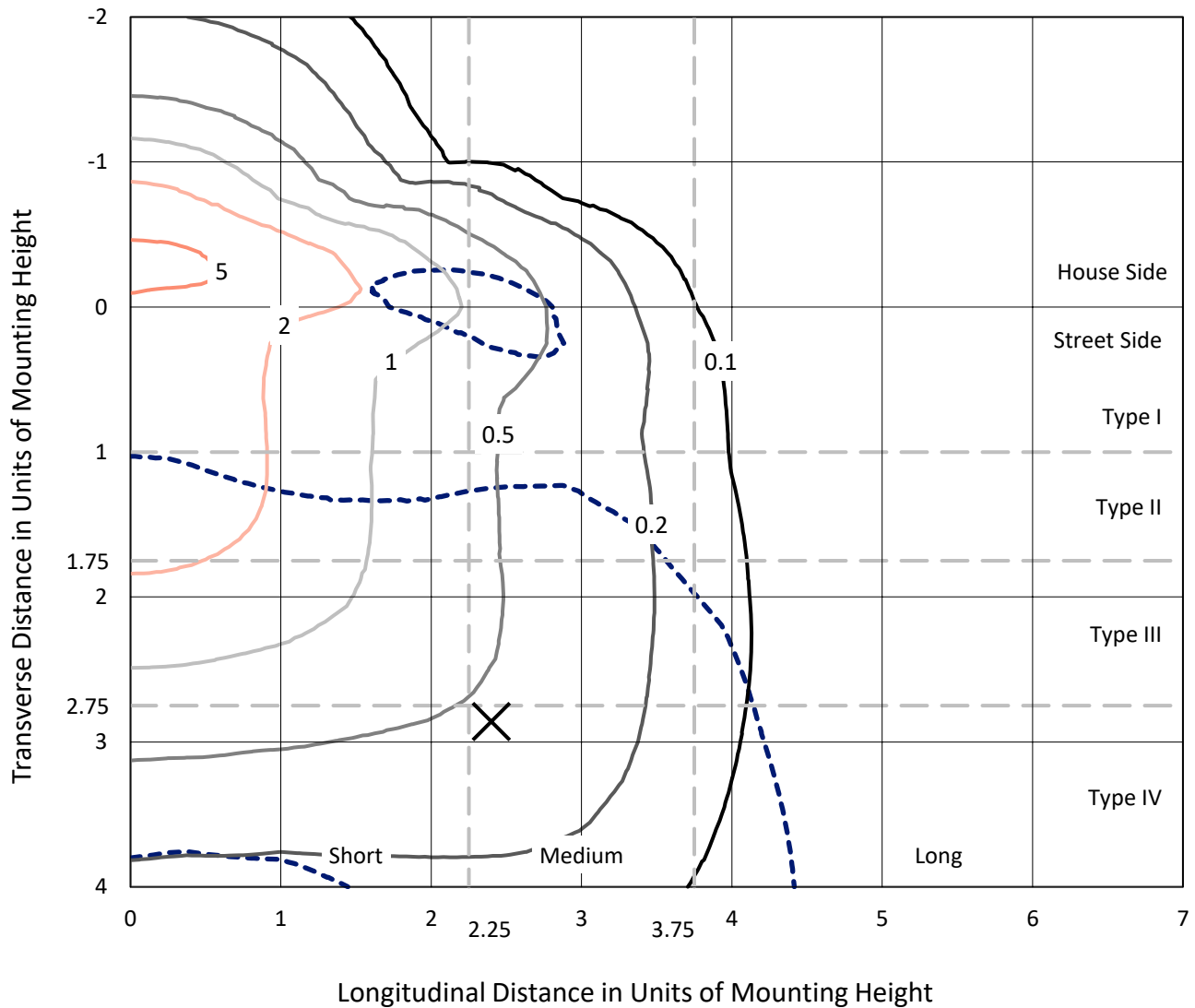


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

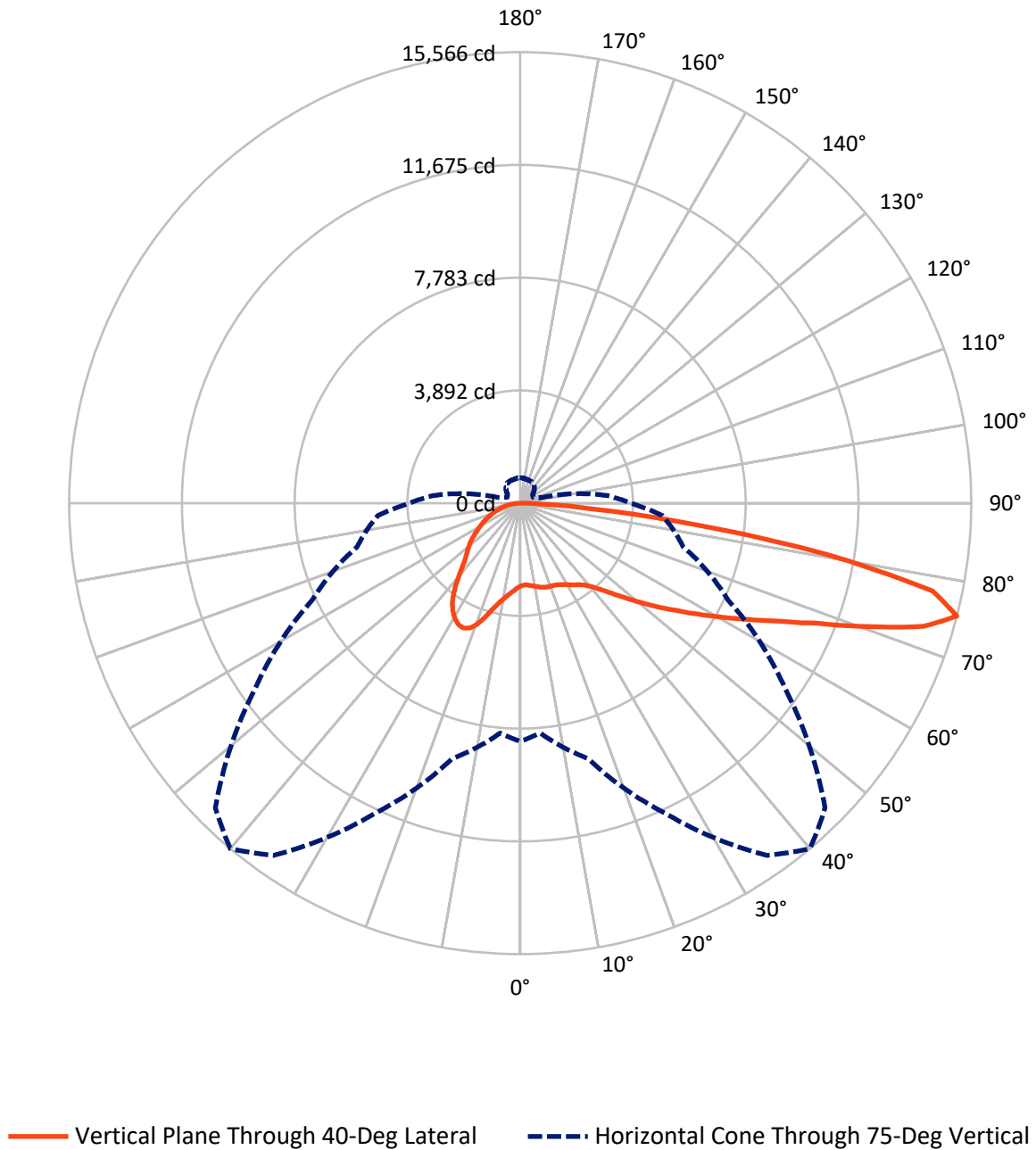


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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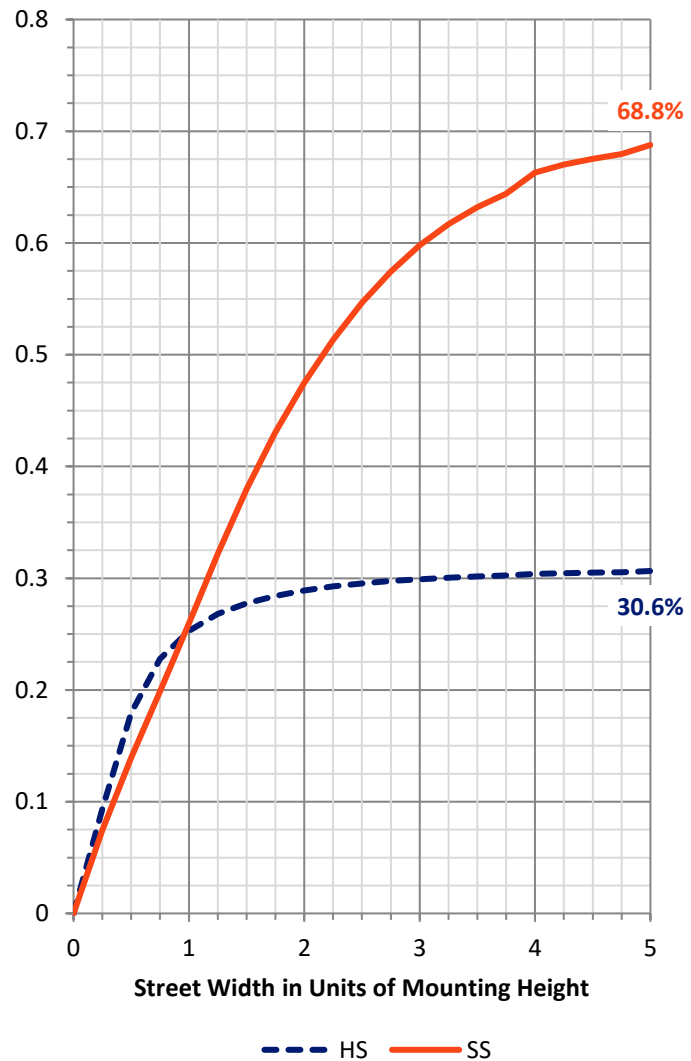
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7748.9	0.0	7748.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	17261.1	0.0	17261.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	25010.0	0.0	25010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	1.1
10°-20°	958.5	3.8
20°-30°	1750.1	7.0
30°-40°	2482.1	9.9
40°-50°	3351.6	13.4
50°-60°	4508.8	18.0
60°-70°	5722.7	22.9
70°-80°	5193.7	20.8
80°-90°	757.1	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°	25010.0	100.0
0°-180°	25010.0	100.0

Coefficient of Utilization



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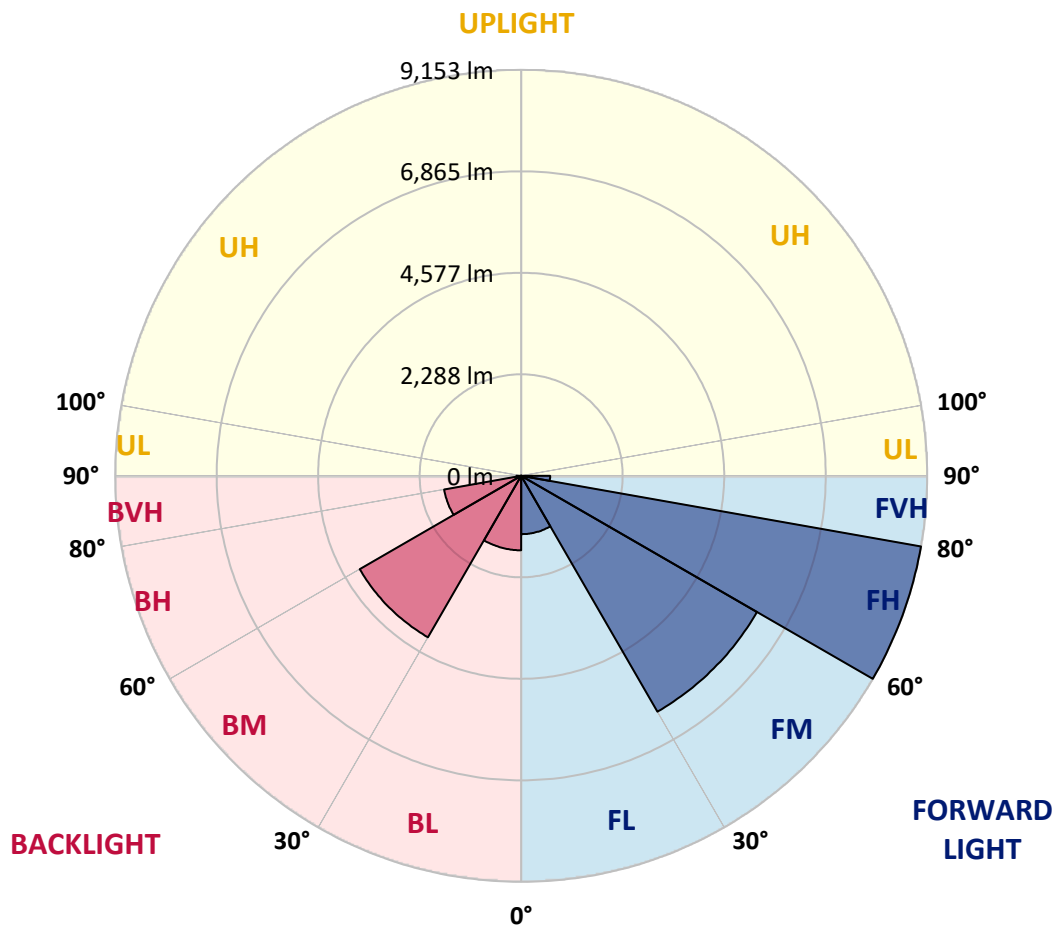
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1315.6	5.3			
FM	(30°-60°)	6139.4	24.5			
FH	(60°-80°)	9153.3	36.6			G4/12000
FVH	(80°-90°)	652.8	2.6			G4/750
BL	(0°-30°)	1678.5	6.7	B3/2500		
BM	(30°-60°)	4203.1	16.8	B3/5000		
BH	(60°-80°)	1763.1	7.0	B3/2500		G3/2500
BVH	(80°-90°)	104.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9
2.5°	2816.2	2832.1	2828.1	2822.8	2822.8	2824.1	2822.8	2832.1	2841.4	2850.6	2865.2
5°	2845.3	2861.3	2853.3	2846.7	2841.4	2840.0	2836.0	2834.7	2840.0	2852.0	2871.9
7.5°	2902.4	2918.3	2906.4	2894.4	2883.8	2878.5	2873.2	2865.2	2861.3	2867.9	2895.7
10°	2966.0	2982.0	2967.4	2946.1	2928.9	2922.3	2917.0	2909.0	2903.7	2907.7	2938.2
12.5°	3029.7	3045.6	3025.7	2996.6	2974.0	2970.0	2963.4	2960.7	2959.4	2958.1	2988.6
15°	3089.4	3102.7	3077.5	3043.0	3019.1	3012.5	3005.8	3009.8	3016.5	3024.4	3058.9
17.5°	3135.8	3149.1	3112.0	3066.9	3044.3	3041.7	3037.7	3050.9	3069.5	3089.4	3131.9
20°	3178.3	3191.6	3143.8	3082.8	3056.2	3056.2	3057.6	3085.4	3112.0	3141.1	3199.5
22.5°	3238.0	3248.6	3190.2	3106.7	3068.2	3070.8	3081.5	3109.3	3142.5	3182.3	3263.2
25°	3326.9	3334.8	3263.2	3151.8	3108.0	3115.9	3125.2	3138.5	3170.3	3216.8	3325.5
27.5°	3470.1	3476.7	3382.6	3231.3	3165.0	3178.3	3191.6	3182.3	3196.9	3236.7	3375.9
30°	3671.7	3675.7	3556.3	3356.0	3261.9	3268.5	3271.1	3232.7	3204.8	3236.7	3411.7
32.5°	3910.5	3909.2	3767.3	3507.3	3372.0	3365.3	3342.8	3267.2	3202.2	3230.0	3443.6
35°	4280.6	4266.0	4083.0	3719.5	3496.6	3455.5	3402.5	3305.6	3215.4	3223.4	3471.4
37.5°	4893.4	4848.3	4595.0	4067.0	3682.4	3577.6	3499.3	3368.0	3244.6	3220.7	3504.6
40°	5584.6	5527.5	5248.9	4543.3	3960.9	3792.5	3666.4	3456.9	3292.4	3232.7	3553.7
42.5°	6404.3	6323.4	6023.6	5104.4	4313.8	4069.7	3880.0	3569.6	3362.7	3271.1	3620.0
45°	7411.1	7303.7	6879.2	5737.1	4758.1	4433.2	4179.8	3740.7	3470.1	3345.4	3719.5
47.5°	8428.6	8455.1	7851.5	6461.4	5291.4	4881.5	4555.2	3998.1	3626.6	3464.8	3880.0
50°	9509.7	9528.2	8818.5	7263.9	5896.3	5388.2	4977.0	4285.9	3844.2	3634.6	4120.1
52.5°	10353.3	10356.0	9696.7	8103.6	6526.4	5945.4	5432.0	4614.9	4096.2	3860.1	4439.8
55°	10881.3	10874.6	10312.2	8898.1	7250.6	6530.3	5936.1	4989.0	4404.0	4125.4	4841.7
57.5°	11264.6	11244.7	10736.7	9581.3	8022.7	7221.4	6506.5	5413.4	4767.4	4441.1	5371.0
60°	11410.5	11398.6	11024.5	10171.6	8834.5	7985.5	7164.4	5888.3	5180.0	4813.9	6051.5
62.5°	11466.2	11488.8	11307.1	10743.3	9703.3	8831.8	7887.3	6456.1	5644.2	5235.7	6769.1
65°	11662.6	11703.7	11666.5	11491.4	10684.9	9822.7	8846.4	7131.2	6151.0	5688.0	7518.6
67.5°	12051.2	12092.3	12108.3	12386.8	11884.1	11057.7	10042.9	7972.2	6743.9	6157.6	8082.3
70°	12041.9	12030.0	12311.2	13099.2	13385.7	12767.5	11655.9	9006.9	7450.9	6547.6	8154.0
72.5°	10960.8	10865.3	11529.9	13091.2	14635.2	14553.0	13625.8	10341.4	8061.1	6595.3	7075.5
75°	8223.0	7968.3	9142.2	11797.9	14843.5	15566.4	14878.0	11169.1	7916.5	5827.3	4924.0
77.5°	3516.5	3260.5	4644.1	8733.7	13284.9	14551.7	13729.2	9744.4	6319.4	3853.5	2418.2
80°	920.6	919.3	1403.4	3959.6	9034.8	10745.9	9427.4	6292.9	3610.7	1376.9	667.2
82.5°	380.7	371.4	516.0	1540.1	4414.6	6030.3	4921.3	2806.9	1303.9	372.7	221.5
85°	141.9	140.6	250.7	531.9	1557.3	2487.2	1800.1	717.6	325.0	181.7	99.5
87.5°	39.8	38.5	54.4	184.4	379.4	575.7	307.7	118.1	91.5	71.6	29.2
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°	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9	2859.9
2.5°	2869.2	2875.8	2887.8	2897.1	2909.0	2922.3	2940.8	2952.8	2964.7	2972.7	2967.4
5°	2881.2	2895.7	2926.3	2956.8	2992.6	3025.7	3064.2	3092.1	3114.6	3121.2	3123.9
7.5°	2907.7	2931.6	2983.3	3035.0	3092.1	3146.5	3202.2	3249.9	3288.4	3303.0	3304.3
10°	2954.1	2985.9	3058.9	3131.9	3207.5	3291.0	3362.7	3431.6	3486.0	3508.6	3509.9
12.5°	3012.5	3052.3	3147.8	3248.6	3353.4	3468.8	3561.6	3646.5	3714.2	3744.7	3744.7
15°	3088.1	3139.8	3261.9	3397.2	3551.0	3711.5	3829.6	3923.8	3999.4	4036.5	4033.9
17.5°	3170.3	3239.3	3393.2	3597.5	3817.7	4028.6	4166.5	4235.5	4313.8	4349.6	4348.3
20°	3249.9	3334.8	3555.0	3852.1	4145.3	4369.5	4480.9	4499.5	4504.8	4508.8	4519.4
22.5°	3332.2	3446.2	3758.0	4173.2	4487.5	4642.7	4658.7	4579.1	4467.6	4415.9	4430.5
25°	3422.4	3573.6	4023.3	4527.3	4782.0	4800.6	4678.6	4484.9	4274.0	4177.1	4191.7
27.5°	3509.9	3720.8	4341.6	4865.6	4994.3	4831.1	4568.5	4293.9	4039.2	3937.0	3949.0
30°	3597.5	3889.3	4693.1	5161.4	5091.1	4755.5	4394.7	4088.3	3832.2	3724.8	3736.7
32.5°	3686.3	4085.6	5097.7	5375.0	5073.8	4595.0	4178.5	3857.5	3631.9	3519.2	3533.8
35°	3787.1	4327.0	5481.1	5491.7	4958.4	4358.9	3893.3	3581.5	3385.2	3295.0	3314.9
37.5°	3918.5	4633.5	5819.3	5520.9	4756.8	4012.7	3539.1	3255.2	3093.4	3052.3	3081.5
40°	4081.6	5002.2	6078.0	5474.5	4458.4	3592.2	3151.8	2924.9	2833.4	2842.7	2874.5
42.5°	4293.9	5414.8	6259.7	5355.1	4043.2	3158.4	2812.2	2711.4	2755.1	2792.3	2826.8
45°	4569.8	5843.2	6372.5	5152.1	3573.6	2790.9	2611.9	2635.7	2668.9	2672.9	2699.4
47.5°	4922.6	6277.0	6446.8	4845.7	3094.7	2532.3	2484.5	2489.8	2483.2	2455.3	2476.6
50°	5363.0	6698.8	6513.1	4439.8	2687.5	2370.4	2306.8	2288.2	2196.7	2106.5	2118.4
52.5°	5864.4	7086.1	6541.0	3935.7	2370.4	2235.1	2131.7	2014.9	1843.8	1816.0	1825.3
55°	6421.6	7444.3	6469.3	3316.2	2103.8	2061.4	1904.8	1764.2	1745.7	1721.8	1725.8
57.5°	7087.5	7830.3	6323.4	2625.1	1830.6	1858.4	1705.9	1721.8	1688.6	1651.5	1644.9
60°	7815.7	8229.6	6067.4	1995.1	1548.0	1605.1	1654.1	1652.8	1643.5	1613.0	1602.4
62.5°	8471.0	8492.2	5563.3	1528.1	1300.0	1408.7	1542.7	1541.4	1533.4	1516.2	1509.6
65°	8861.0	8452.4	4722.3	1203.1	1095.7	1246.9	1391.5	1402.1	1403.4	1402.1	1402.1
67.5°	8792.0	7986.8	3568.3	957.7	927.2	1082.4	1241.6	1256.2	1266.8	1269.5	1272.1
70°	8012.0	6964.1	2326.7	764.1	777.3	937.8	1099.7	1114.3	1123.5	1134.2	1139.5
72.5°	6245.1	5120.3	1331.8	618.1	646.0	813.1	959.1	976.3	981.6	1001.5	1009.5
75°	3805.7	3011.1	719.0	486.8	530.6	695.1	819.8	839.7	849.0	872.8	875.5
77.5°	1809.3	1303.9	409.9	379.4	427.1	567.7	692.4	715.0	689.8	703.0	692.4
80°	611.5	484.2	258.7	289.2	326.3	443.0	554.5	577.0	524.0	521.3	516.0
82.5°	213.6	196.3	164.5	192.3	210.9	317.0	419.2	448.4	390.0	388.7	370.1
85°	83.6	79.6	91.5	104.8	126.0	195.0	275.9	290.5	240.1	193.7	191.0
87.5°	17.2	18.6	22.6	23.9	38.5	67.7	99.5	122.0	96.8	82.2	75.6
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)