

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: P952011

Luminaire Tested: **GALN-SB6A-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25182 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
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

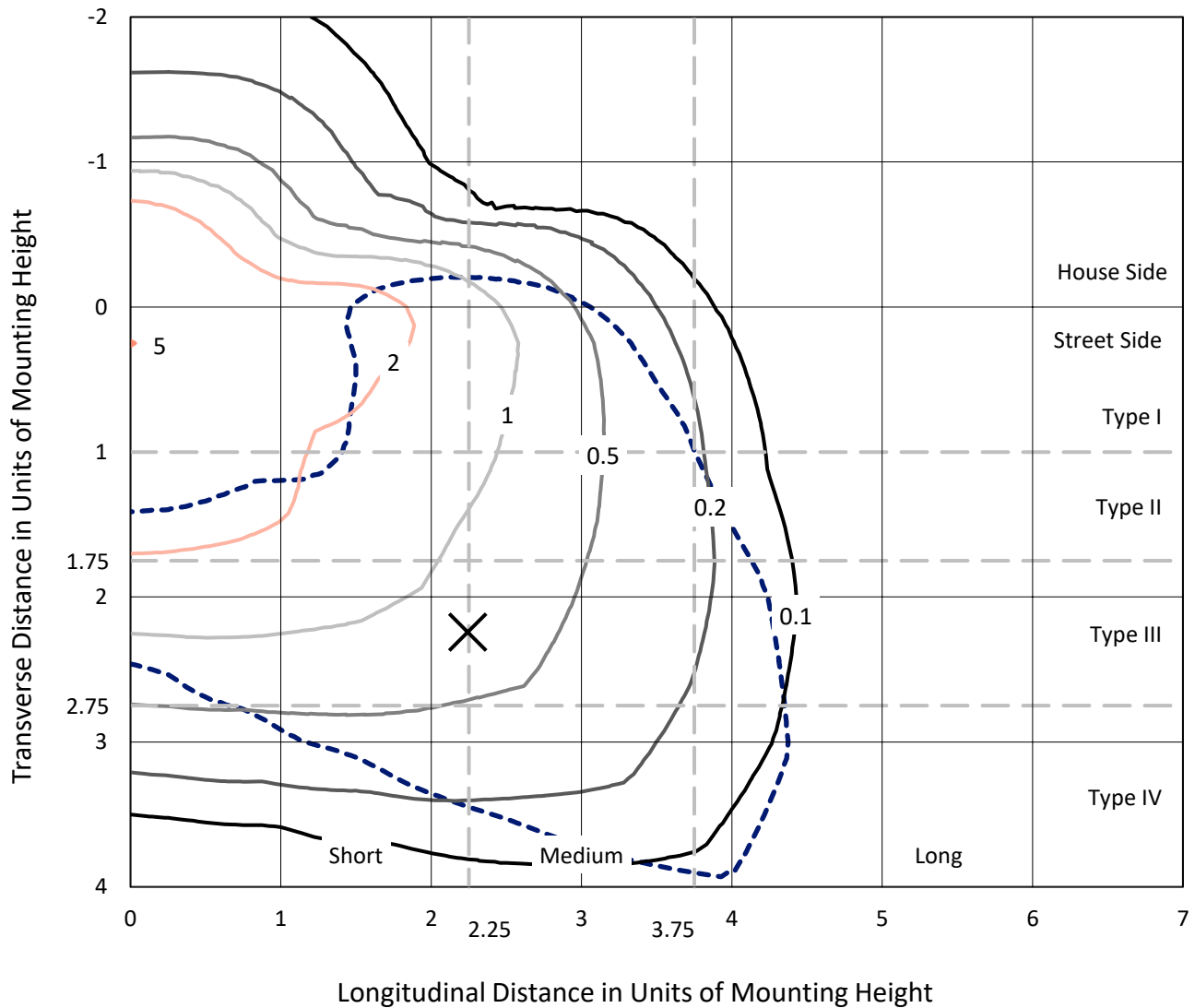


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

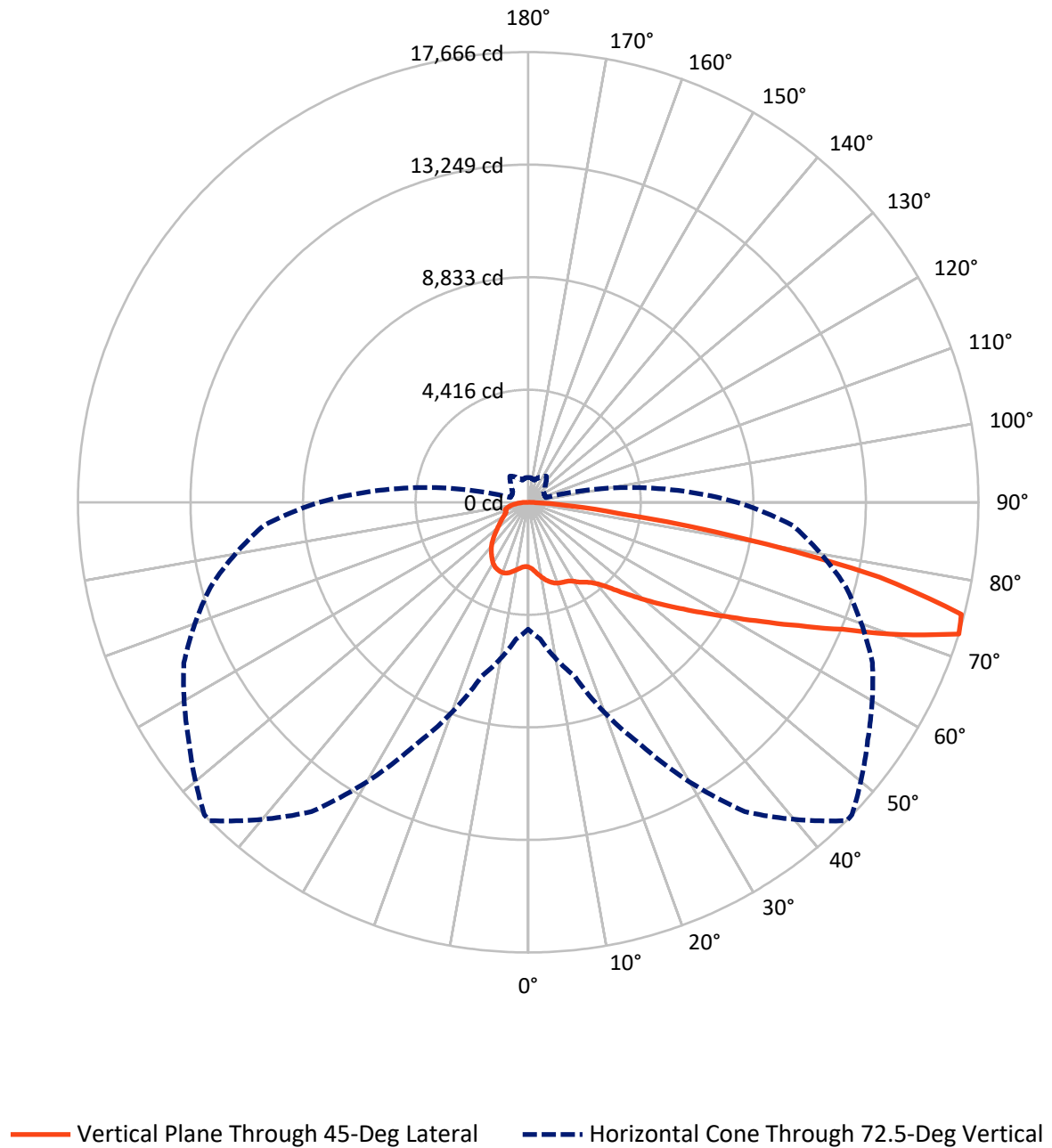


Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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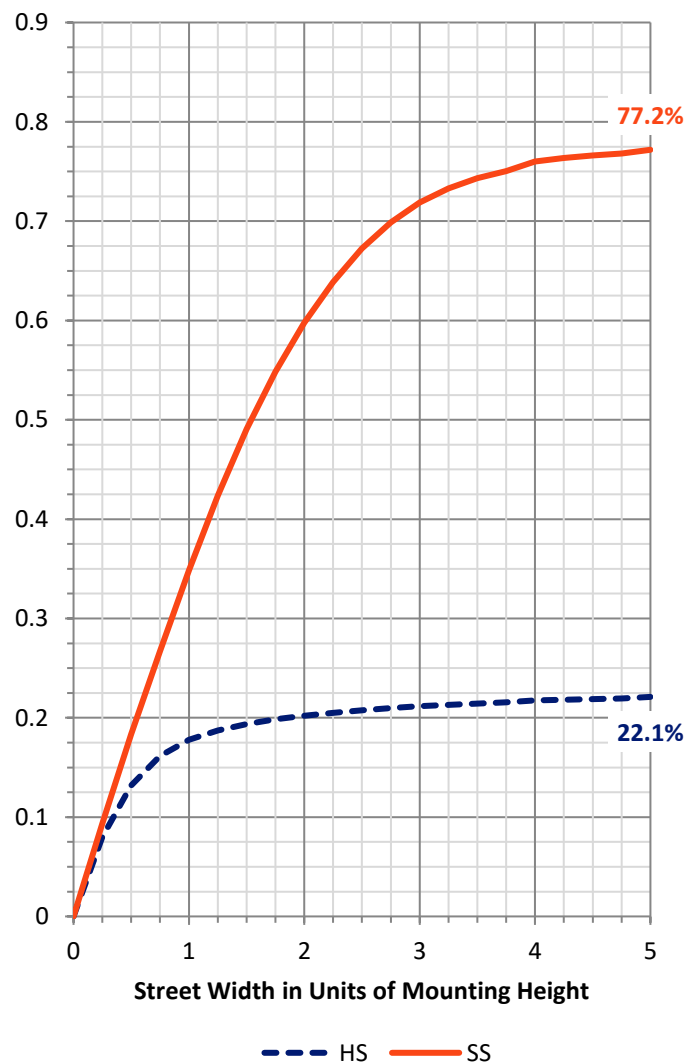
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5692.8	0.0	5692.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19489.2	0.0	19489.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	25182.0	0.0	25182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.6	1.0
10°-20°	862.1	3.4
20°-30°	1499.6	6.0
30°-40°	2149.8	8.5
40°-50°	3027.0	12.0
50°-60°	4636.5	18.4
60°-70°	6716.7	26.7
70°-80°	5363.7	21.3
80°-90°	668.0	2.7
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°	25182.0	100.0
0°-180°	25182.0	100.0

Coefficient of Utilization



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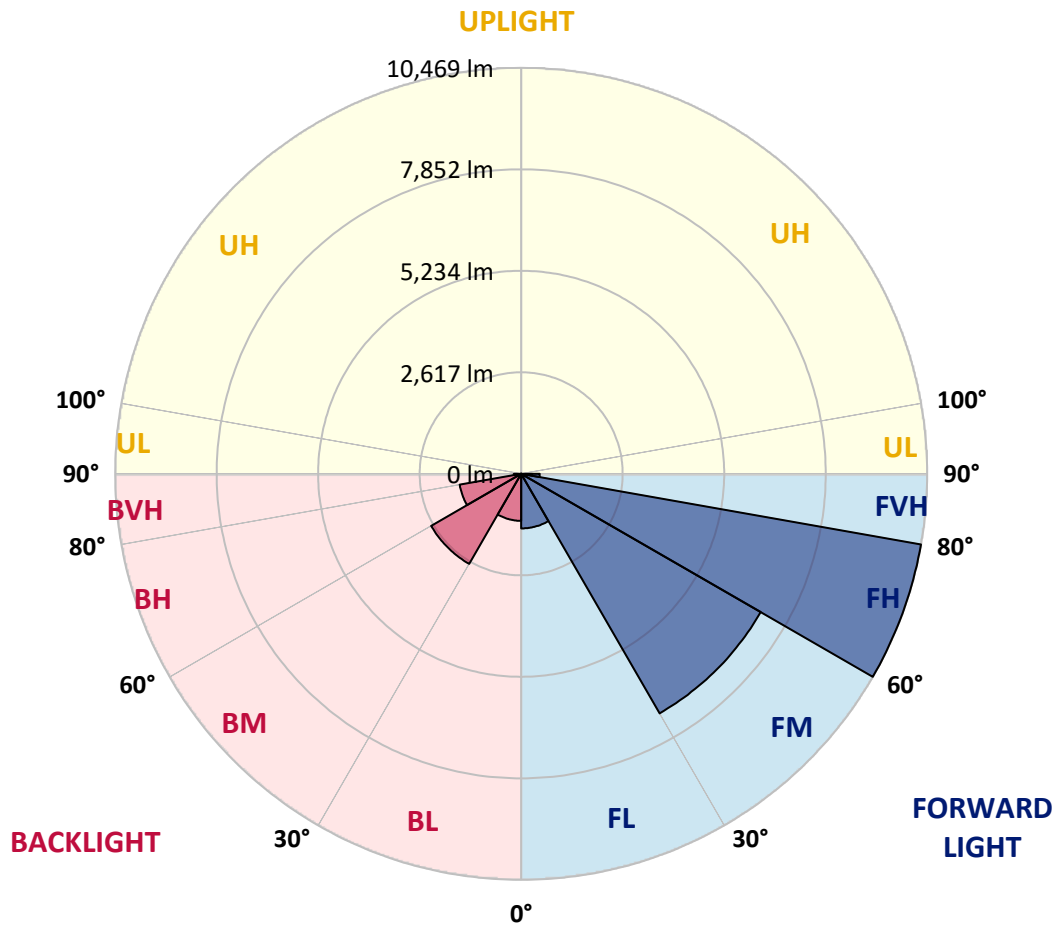
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1408.2	5.6			
FM	(30°-60°)	7132.9	28.3			
FH	(60°-80°)	10468.9	41.6			G4/12000
FVH	(80°-90°)	479.3	1.9			G3/500
BL	(0°-30°)	1212.0	4.8	B3/2500		
BM	(30°-60°)	2680.5	10.6	B3/5000		
BH	(60°-80°)	1611.5	6.4	B3/2500		G3/2500
BVH	(80°-90°)	188.8	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4
2.5°	2639.9	2657.1	2641.2	2626.6	2620.0	2602.7	2601.4	2590.8	2584.2	2565.6	2560.3
5°	2824.3	2846.8	2820.3	2791.1	2764.6	2722.1	2716.8	2686.3	2651.8	2612.0	2589.5
7.5°	3032.5	3052.4	3021.9	2978.1	2931.7	2861.4	2860.1	2804.4	2750.0	2682.3	2643.8
10°	3214.3	3240.8	3199.7	3140.0	3081.6	3002.0	2992.7	2929.1	2860.1	2772.5	2714.2
12.5°	3374.8	3393.4	3353.6	3280.6	3212.9	3133.3	3121.4	3051.1	2974.2	2874.7	2800.4
15°	3502.1	3526.0	3472.9	3394.7	3323.0	3244.8	3234.2	3170.5	3093.6	2988.8	2893.2
17.5°	3585.7	3605.6	3551.2	3463.7	3394.7	3329.7	3321.7	3268.7	3201.0	3094.9	2992.7
20°	3617.5	3638.8	3581.7	3492.8	3429.2	3378.8	3374.8	3336.3	3289.9	3193.0	3089.6
22.5°	3649.4	3669.3	3595.0	3502.1	3446.4	3414.6	3413.3	3388.0	3369.5	3289.9	3189.1
25°	3778.1	3783.4	3683.9	3549.9	3470.3	3442.4	3441.1	3439.8	3447.7	3385.4	3296.5
27.5°	3889.5	3888.2	3803.3	3677.2	3553.9	3495.5	3494.2	3507.4	3532.6	3480.9	3407.9
30°	4052.7	4038.1	3937.2	3805.9	3693.2	3603.0	3595.0	3583.1	3603.0	3561.8	3519.4
32.5°	4398.9	4352.5	4189.3	3955.8	3808.6	3739.6	3729.0	3654.7	3662.6	3637.4	3616.2
35°	4895.0	4834.0	4616.4	4239.7	3951.8	3853.7	3848.4	3754.2	3738.3	3715.7	3723.7
37.5°	5485.3	5409.7	5156.4	4650.9	4198.6	3986.3	3978.4	3893.5	3828.5	3804.6	3849.7
40°	6078.3	5982.8	5773.2	5152.4	4562.1	4207.9	4182.7	4054.0	3979.7	3939.9	4035.4
42.5°	6654.1	6574.5	6395.4	5714.8	5010.4	4531.5	4475.8	4255.6	4199.9	4162.8	4335.2
45°	7163.5	7091.8	6960.5	6315.8	5535.8	4972.0	4917.6	4558.1	4540.8	4540.8	4790.2
47.5°	7577.3	7561.4	7422.1	6928.7	6155.3	5473.4	5379.2	4978.6	5025.0	5096.7	5436.3
50°	8036.3	7992.6	7844.0	7532.2	6883.6	6047.8	5970.9	5494.6	5668.4	5864.7	6370.2
52.5°	8458.2	8482.1	8316.2	8161.0	7706.0	6688.5	6553.2	6103.5	6478.9	6804.0	7464.6
55°	8892.0	8893.3	8846.9	8825.6	8568.3	7396.9	7248.4	6835.8	7432.7	7836.0	8740.7
57.5°	9299.2	9301.9	9370.9	9557.9	9568.5	8214.1	8045.6	7735.2	8492.7	8903.9	10056.7
60°	9662.7	9681.3	9869.7	10307.4	10448.0	9150.7	8991.5	8797.8	9588.4	10002.3	11440.3
62.5°	9784.7	9852.4	10271.6	10893.8	11316.9	10299.5	10142.9	10027.5	10739.9	11124.6	12597.1
65°	9577.8	9733.0	10543.5	11378.0	12211.0	11664.5	11509.3	11383.3	11936.4	12298.6	13546.9
67.5°	9069.7	9270.0	10527.6	11886.0	13296.2	13306.8	13162.2	12866.4	13219.2	13358.5	13856.0
70°	7731.2	8031.0	9600.4	12075.7	14541.8	15552.7	15413.4	14651.9	14499.4	13825.5	12985.8
72.5°	4981.3	5384.5	7069.3	10514.4	14819.1	17665.9	17657.9	16263.7	14904.0	12918.1	10414.9
75°	1817.4	2064.1	3284.6	6599.7	12439.2	17558.4	17610.2	15987.8	13605.3	9978.4	6488.2
77.5°	662.0	724.3	1071.9	2536.4	7650.3	14088.1	14195.6	12781.5	9683.9	5007.8	2570.9
80°	347.6	382.1	549.2	984.3	3277.9	8366.7	8535.1	7595.9	4551.4	1508.3	770.7
82.5°	192.4	208.3	307.8	534.6	1476.5	3577.7	3678.6	3000.7	1601.2	639.4	318.4
85°	103.5	110.1	144.6	291.8	721.7	1240.3	1268.2	896.8	638.1	375.4	153.9
87.5°	30.5	37.1	47.8	92.9	282.6	278.6	285.2	177.8	252.0	189.7	50.4
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°	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4
2.5°	2552.3	2548.3	2533.7	2527.1	2519.1	2517.8	2524.5	2525.8	2527.1	2528.4	2533.7
5°	2576.2	2562.9	2549.7	2541.7	2544.4	2545.7	2558.9	2568.2	2574.9	2580.2	2582.8
7.5°	2622.6	2612.0	2589.5	2588.1	2592.1	2604.0	2621.3	2642.5	2654.5	2663.7	2666.4
10°	2691.6	2671.7	2645.2	2649.2	2657.1	2674.4	2710.2	2727.4	2747.3	2764.6	2760.6
12.5°	2761.9	2744.7	2714.2	2716.8	2730.1	2760.6	2795.1	2816.3	2829.6	2842.8	2848.1
15°	2853.4	2822.9	2789.8	2789.8	2813.6	2846.8	2862.7	2880.0	2887.9	2902.5	2907.8
17.5°	2947.6	2907.8	2864.1	2861.4	2890.6	2906.5	2915.8	2918.4	2921.1	2937.0	2942.3
20°	3041.8	2998.0	2935.7	2930.4	2937.0	2934.4	2933.0	2930.4	2934.4	2954.3	2962.2
22.5°	3134.7	3084.3	2998.0	2974.2	2955.6	2930.4	2929.1	2927.7	2930.4	2950.3	2963.5
25°	3243.5	3182.4	3067.0	2995.4	2933.0	2898.5	2902.5	2903.9	2906.5	2922.4	2943.6
27.5°	3361.5	3293.9	3130.7	2988.8	2876.0	2852.1	2845.5	2849.5	2858.7	2884.0	2909.2
30°	3479.6	3400.0	3189.1	2962.2	2804.4	2771.2	2750.0	2759.3	2788.4	2813.6	2841.5
32.5°	3587.0	3507.4	3235.5	2903.9	2712.8	2661.1	2633.2	2645.2	2674.4	2683.6	2716.8
35°	3713.1	3622.9	3255.4	2811.0	2613.3	2533.7	2496.6	2479.4	2493.9	2484.7	2513.8
37.5°	3853.7	3759.5	3252.7	2688.9	2496.6	2405.1	2353.3	2288.3	2257.8	2226.0	2245.9
40°	4061.9	3926.6	3220.9	2541.7	2352.0	2268.4	2175.6	2065.5	1996.5	1934.1	1938.1
42.5°	4345.8	4158.8	3162.5	2379.9	2188.8	2110.6	1984.5	1855.9	1747.1	1643.6	1634.3
45°	4769.0	4462.6	3089.6	2207.4	2012.4	1935.5	1798.8	1654.2	1530.9	1398.2	1382.3
47.5°	5379.2	4871.1	3020.6	2011.1	1826.7	1756.4	1633.0	1499.0	1353.1	1224.4	1209.8
50°	6217.6	5457.5	2956.9	1820.0	1643.6	1590.6	1492.4	1355.8	1208.5	1105.0	1098.4
52.5°	7284.2	6254.8	2930.4	1635.7	1472.5	1452.6	1374.3	1247.0	1107.7	1020.1	1013.5
55°	8508.6	7208.6	2930.4	1459.2	1322.6	1329.2	1274.8	1156.8	1036.0	957.8	949.8
57.5°	9758.2	8174.3	2877.3	1296.1	1195.2	1223.1	1188.6	1085.1	976.4	895.4	882.2
60°	10909.7	8983.5	2662.4	1147.5	1082.5	1126.3	1103.7	1014.8	882.2	814.5	803.9
62.5°	11794.5	9439.8	2248.5	1029.4	989.6	1040.0	1028.1	922.0	864.9	837.1	827.8
65°	12237.6	9365.6	1719.2	924.6	911.4	989.6	964.4	960.4	915.3	883.5	872.9
67.5°	11965.6	8726.2	1247.0	847.7	866.2	943.2	1040.0	1055.9	972.4	910.0	899.4
70°	10773.0	7569.4	928.6	774.7	809.2	944.5	1185.9	1105.0	953.8	880.8	868.9
72.5°	8195.5	5644.5	720.3	697.8	734.9	951.1	1251.0	1082.5	900.7	973.7	965.7
75°	4686.8	3098.9	578.4	603.6	642.1	888.8	1217.8	1024.1	859.6	894.1	894.1
77.5°	1786.9	1191.3	477.6	510.7	516.0	776.0	1164.7	1020.1	818.5	798.6	728.3
80°	619.5	465.6	395.3	405.9	399.3	689.8	1117.0	887.5	669.9	599.6	579.7
82.5°	253.4	232.1	313.1	299.8	283.9	535.9	902.1	725.6	547.9	484.2	478.9
85°	110.1	147.2	206.9	181.7	164.5	371.4	723.0	614.2	463.0	399.3	398.0
87.5°	22.6	55.7	87.6	82.2	84.9	248.1	513.4	436.4	327.7	245.4	192.4
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)