

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: P950940

Luminaire Tested: **GALN-SB5B-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950940
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-SB5B-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26332 lumens
Efficiency: N/A
Efficacy: 144.1 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): 182.7
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

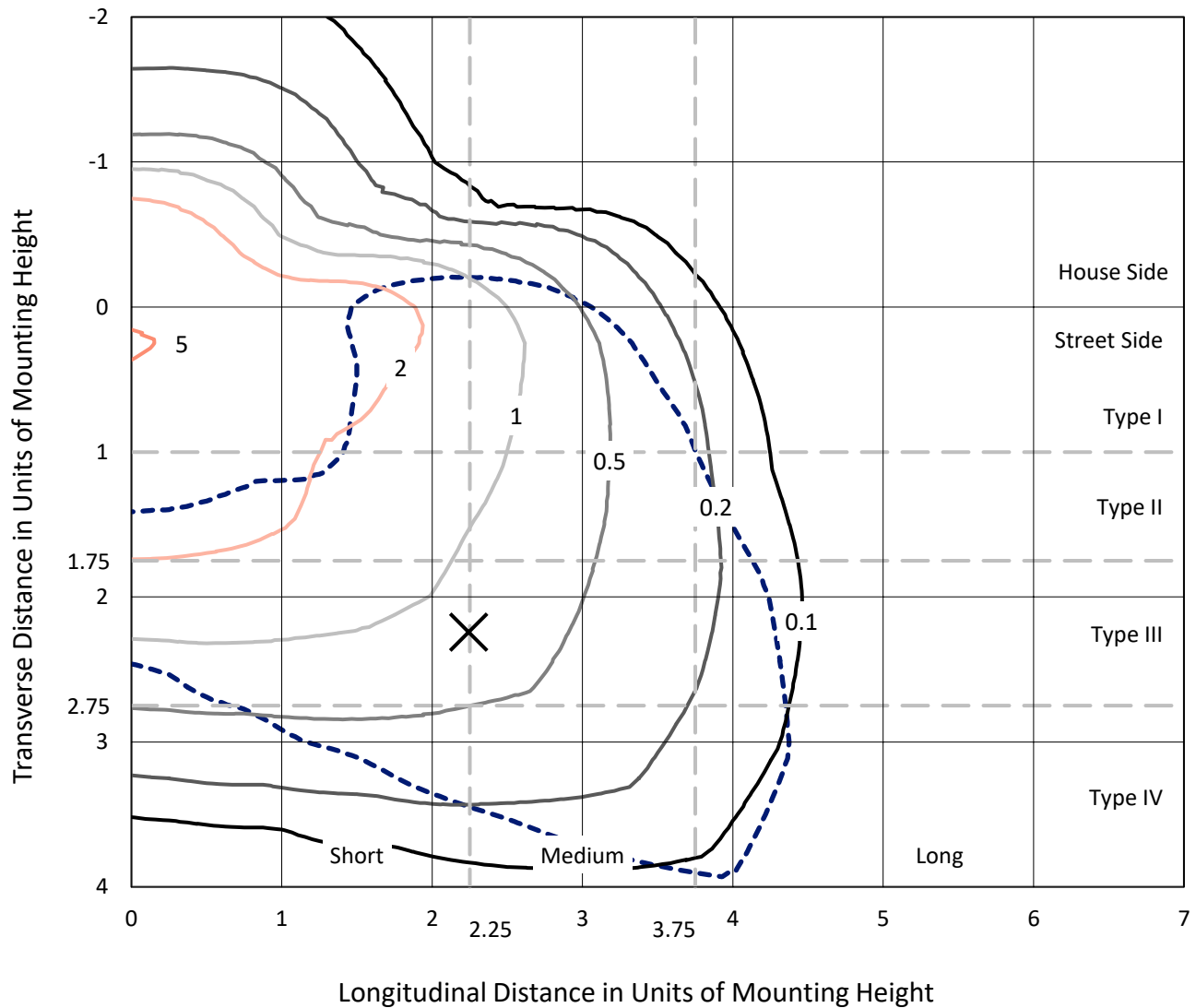


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

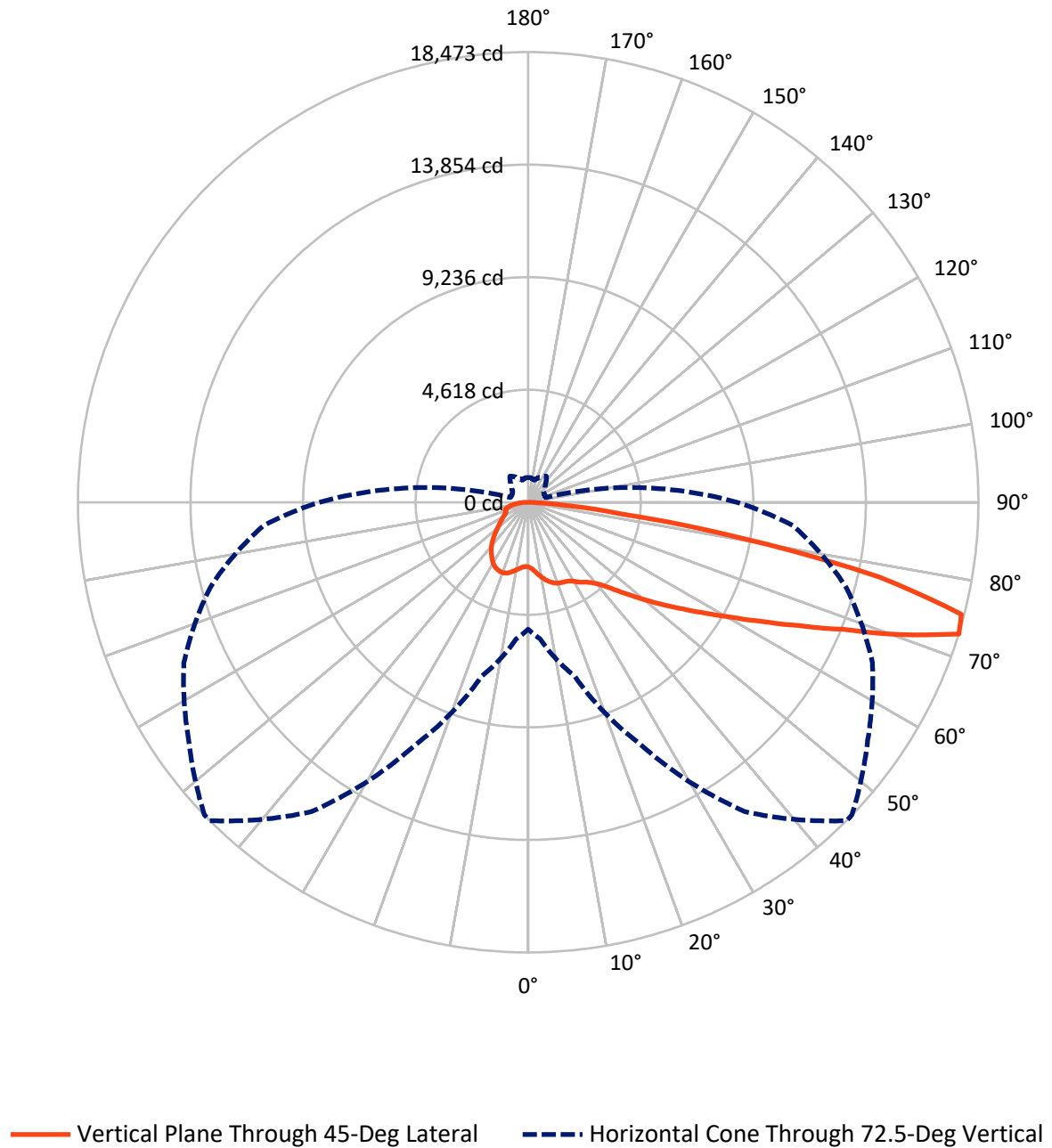


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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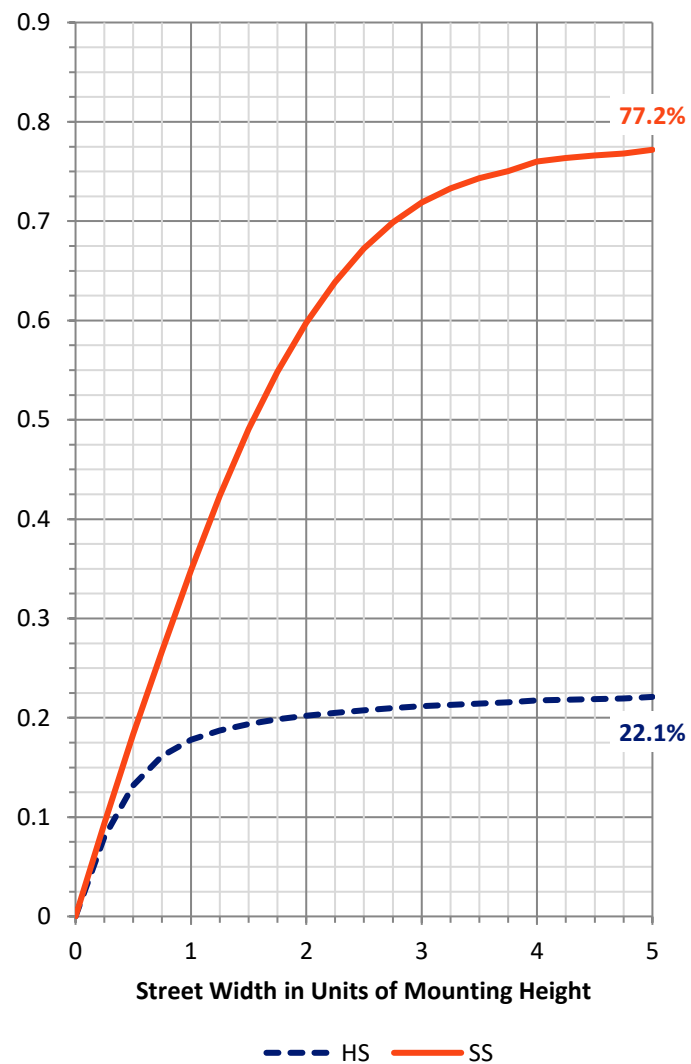
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5952.8	0.0	5952.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	20379.2	0.0	20379.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	26332.0	0.0	26332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	1.0
10°-20°	901.4	3.4
20°-30°	1568.1	6.0
30°-40°	2248.0	8.5
40°-50°	3165.3	12.0
50°-60°	4848.3	18.4
60°-70°	7023.4	26.7
70°-80°	5608.6	21.3
80°-90°	698.5	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°	26332.0	100.0
0°-180°	26332.0	100.0

Coefficient of Utilization



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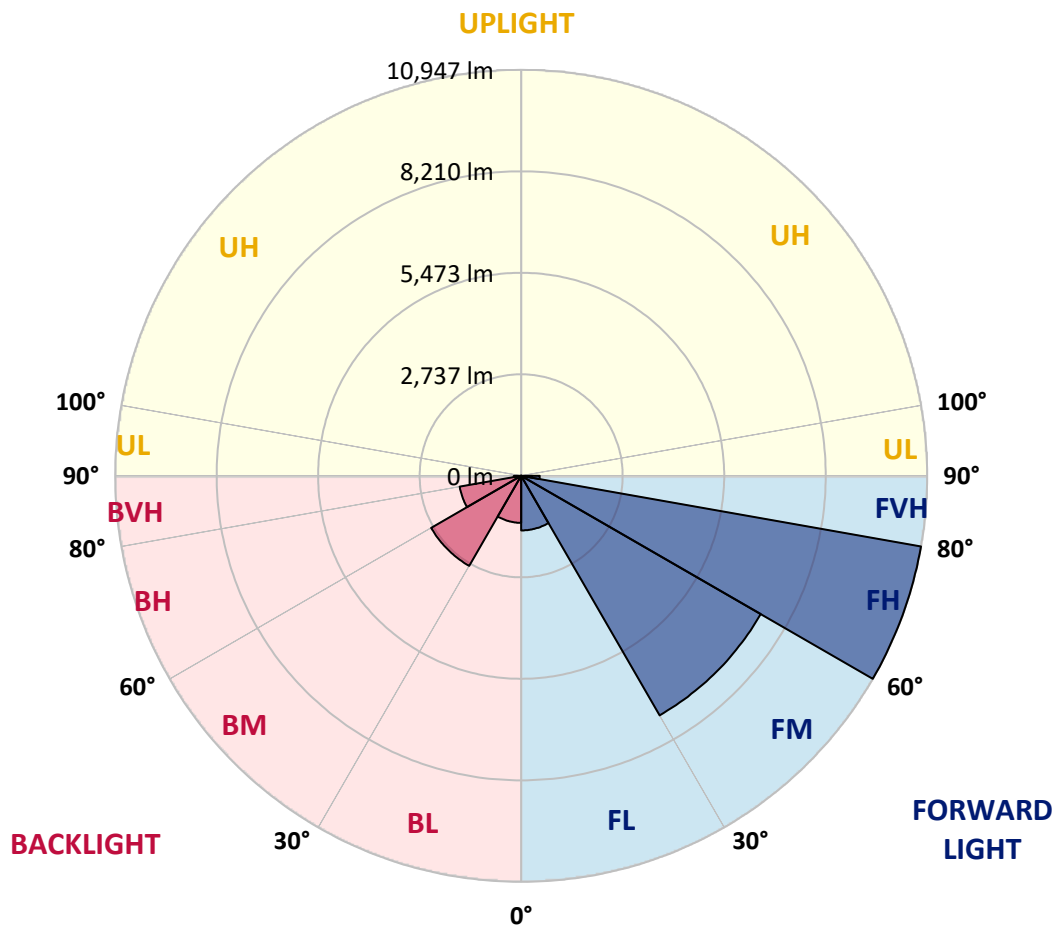
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1472.5	5.6			
FM	(30°-60°)	7458.6	28.3			
FH	(60°-80°)	10947.0	41.6			G4/12000
FVH	(80°-90°)	501.1	1.9			G4/750
BL	(0°-30°)	1267.4	4.8	B3/2500		
BM	(30°-60°)	2802.9	10.6	B3/5000		
BH	(60°-80°)	1685.1	6.4	B3/2500		G3/2500
BVH	(80°-90°)	197.4	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°	2656.4	2656.4	2656.4	2656.4	2656.4	2656.4	2656.4	2656.4	2656.4	2656.4	2656.4
2.5°	2760.4	2778.5	2761.8	2746.6	2739.6	2721.6	2720.2	2709.1	2702.2	2682.7	2677.2
5°	2953.2	2976.8	2949.1	2918.6	2890.8	2846.4	2840.9	2809.0	2772.9	2731.3	2707.7
7.5°	3171.0	3191.8	3159.9	3114.1	3065.6	2992.1	2990.7	2932.4	2875.6	2804.8	2764.6
10°	3361.1	3388.8	3345.8	3283.4	3222.3	3139.1	3129.4	3062.8	2990.7	2899.1	2838.1
12.5°	3528.9	3548.3	3506.7	3430.4	3359.7	3276.4	3264.0	3190.4	3110.0	3005.9	2928.3
15°	3662.1	3687.0	3631.6	3549.7	3474.8	3393.0	3381.9	3315.3	3234.8	3125.2	3025.4
17.5°	3749.5	3770.3	3713.4	3621.8	3549.7	3481.7	3473.4	3417.9	3347.2	3236.2	3129.4
20°	3782.7	3804.9	3745.3	3652.4	3585.8	3533.1	3528.9	3488.7	3440.1	3338.9	3230.7
22.5°	3816.0	3836.8	3759.2	3662.1	3603.8	3570.5	3569.1	3542.8	3523.4	3440.1	3334.7
25°	3950.6	3956.1	3852.1	3712.0	3628.8	3599.6	3598.3	3596.9	3605.2	3540.0	3447.1
27.5°	4067.1	4065.7	3977.0	3845.2	3716.2	3655.1	3653.7	3667.6	3694.0	3639.9	3563.6
30°	4237.7	4222.5	4117.1	3979.7	3861.8	3767.5	3759.2	3746.7	3767.5	3724.5	3680.1
32.5°	4599.8	4551.2	4380.6	4136.5	3982.5	3910.4	3899.3	3821.6	3829.9	3803.6	3781.4
35°	5118.6	5054.8	4827.3	4433.3	4132.3	4029.7	4024.1	3925.6	3909.0	3885.4	3893.7
37.5°	5735.9	5656.8	5391.8	4863.3	4390.3	4168.4	4160.1	4071.3	4003.3	3978.3	4025.5
40°	6355.9	6256.0	6036.9	5387.7	4770.4	4400.0	4373.7	4239.1	4161.4	4119.8	4219.7
42.5°	6957.9	6874.7	6687.4	5975.8	5239.3	4738.5	4680.2	4450.0	4391.7	4352.9	4533.2
45°	7490.6	7415.7	7278.4	6604.2	5788.6	5199.0	5142.2	4766.2	4748.2	4748.2	5009.0
47.5°	7923.4	7906.7	7761.1	7245.1	6436.4	5723.4	5624.9	5206.0	5254.5	5329.4	5684.5
50°	8403.3	8357.6	8202.2	7876.2	7197.9	6324.0	6243.5	5745.6	5927.3	6132.6	6661.1
52.5°	8844.4	8869.4	8696.0	8533.7	8057.9	6994.0	6852.5	6382.3	6774.8	7114.7	7805.5
55°	9298.0	9299.4	9250.9	9228.7	8959.6	7734.7	7579.4	7148.0	7772.2	8193.9	9139.9
57.5°	9723.9	9726.7	9798.8	9994.4	10005.5	8589.2	8413.0	8088.5	8880.5	9310.5	10516.0
60°	10104.0	10123.4	10320.4	10778.1	10925.2	9568.5	9402.1	9199.6	10026.3	10459.1	11962.8
62.5°	10231.6	10302.3	10740.7	11391.3	11833.8	10769.8	10606.1	10485.4	11230.3	11632.6	13172.3
65°	10015.2	10177.5	11025.0	11897.6	12768.7	12197.2	12034.9	11903.1	12481.5	12860.2	14165.5
67.5°	9483.9	9693.4	11008.4	12428.8	13903.4	13914.5	13763.3	13453.9	13822.9	13968.6	14488.7
70°	8084.3	8397.8	10038.8	12627.2	15205.9	16262.9	16117.3	15321.0	15161.5	14456.8	13578.8
72.5°	5208.7	5630.4	7392.1	10994.5	15495.8	18472.6	18464.3	17006.4	15584.6	13508.0	10890.5
75°	1900.4	2158.4	3434.6	6901.1	13007.3	18360.3	18414.4	16717.9	14226.6	10434.1	6784.5
77.5°	692.2	757.4	1120.8	2652.2	7999.7	14731.5	14843.9	13365.2	10126.2	5236.5	2688.3
80°	363.4	399.5	574.3	1029.3	3427.6	8748.7	8924.9	7942.8	4759.3	1577.2	805.9
82.5°	201.1	217.8	321.8	559.0	1543.9	3741.1	3846.6	3137.7	1674.3	668.6	332.9
85°	108.2	115.1	151.2	305.2	754.6	1297.0	1326.1	937.7	667.2	392.6	160.9
87.5°	31.9	38.8	49.9	97.1	295.5	291.3	298.2	185.9	263.6	198.4	52.7
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°	2656.4	2656.4	2656.4	2656.4	2656.4	2656.4	2656.4	2656.4	2656.4	2656.4	2656.4
2.5°	2668.9	2664.7	2649.5	2642.5	2634.2	2632.8	2639.7	2641.1	2642.5	2643.9	2649.5
5°	2693.8	2680.0	2666.1	2657.8	2660.5	2661.9	2675.8	2685.5	2692.5	2698.0	2700.8
7.5°	2742.4	2731.3	2707.7	2706.3	2710.5	2723.0	2741.0	2763.2	2775.7	2785.4	2788.2
10°	2814.5	2793.7	2766.0	2770.1	2778.5	2796.5	2833.9	2852.0	2872.8	2890.8	2886.7
12.5°	2888.0	2870.0	2838.1	2840.9	2854.7	2886.7	2922.7	2944.9	2958.8	2972.7	2978.2
15°	2983.8	2951.8	2917.2	2917.2	2942.1	2976.8	2993.5	3011.5	3019.8	3035.1	3040.6
17.5°	3082.2	3040.6	2994.9	2992.1	3022.6	3039.2	3048.9	3051.7	3054.5	3071.1	3076.7
20°	3180.7	3135.0	3069.8	3064.2	3071.1	3068.4	3067.0	3064.2	3068.4	3089.2	3097.5
22.5°	3277.8	3225.1	3135.0	3110.0	3090.6	3064.2	3062.8	3061.4	3064.2	3085.0	3098.9
25°	3391.6	3327.8	3207.1	3132.2	3067.0	3030.9	3035.1	3036.5	3039.2	3055.9	3078.1
27.5°	3515.0	3444.3	3273.7	3125.2	3007.3	2982.4	2975.4	2979.6	2989.3	3015.7	3042.0
30°	3638.5	3555.3	3334.7	3097.5	2932.4	2897.7	2875.6	2885.3	2915.8	2942.1	2971.3
32.5°	3750.8	3667.6	3383.3	3036.5	2836.7	2782.6	2753.5	2766.0	2796.5	2806.2	2840.9
35°	3882.6	3788.3	3404.1	2939.4	2732.7	2649.5	2610.6	2592.6	2607.8	2598.1	2628.6
37.5°	4029.7	3931.2	3401.3	2811.7	2610.6	2514.9	2460.8	2392.8	2360.9	2327.6	2348.4
40°	4247.4	4106.0	3368.0	2657.8	2459.4	2372.0	2274.9	2159.8	2087.7	2022.5	2026.6
42.5°	4544.3	4348.7	3307.0	2488.5	2288.8	2207.0	2075.2	1940.6	1826.9	1718.7	1709.0
45°	4986.8	4666.4	3230.7	2308.2	2104.3	2023.8	1881.0	1729.8	1600.8	1462.1	1445.4
47.5°	5624.9	5093.6	3158.5	2102.9	1910.1	1836.6	1707.6	1567.5	1414.9	1280.3	1265.1
50°	6501.6	5706.7	3092.0	1903.2	1718.7	1663.2	1560.5	1417.7	1263.7	1155.5	1148.6
52.5°	7616.8	6540.4	3064.2	1710.4	1539.7	1518.9	1437.1	1303.9	1158.3	1066.7	1059.8
55°	8897.2	7537.8	3064.2	1525.9	1383.0	1389.9	1333.0	1209.6	1083.4	1001.5	993.2
57.5°	10203.9	8547.6	3008.7	1355.2	1249.8	1278.9	1242.9	1134.7	1020.9	936.3	922.5
60°	11407.9	9393.8	2784.0	1199.9	1131.9	1177.7	1154.1	1061.2	922.5	851.7	840.6
62.5°	12333.1	9870.9	2351.2	1076.4	1034.8	1087.5	1075.0	964.1	904.4	875.3	865.6
65°	12796.4	9793.3	1797.7	966.8	953.0	1034.8	1008.5	1004.3	957.1	923.8	912.7
67.5°	12512.1	9124.7	1303.9	886.4	905.8	986.3	1087.5	1104.2	1016.8	951.6	940.5
70°	11265.0	7915.1	971.0	810.1	846.2	987.6	1240.1	1155.5	997.4	921.1	908.6
72.5°	8569.8	5902.3	753.2	729.6	768.5	994.6	1308.1	1131.9	941.9	1018.2	1009.8
75°	4900.8	3240.4	604.8	631.2	671.4	929.4	1273.4	1070.9	898.9	934.9	934.9
77.5°	1868.5	1245.7	499.4	534.1	539.6	811.5	1217.9	1066.7	855.9	835.1	761.5
80°	647.8	486.9	413.4	424.5	417.5	721.3	1168.0	928.0	700.5	627.0	606.2
82.5°	264.9	242.8	327.4	313.5	296.8	560.4	943.3	758.8	572.9	506.3	500.8
85°	115.1	154.0	216.4	190.0	172.0	388.4	756.0	642.2	484.1	417.5	416.1
87.5°	23.6	58.3	91.6	86.0	88.8	259.4	536.8	456.4	342.6	256.6	201.1
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)