

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: P950961

Luminaire Tested: **GALN-SB5B-730-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950961
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-730-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28389 lumens
Efficiency: N/A
Efficacy: 155.4 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

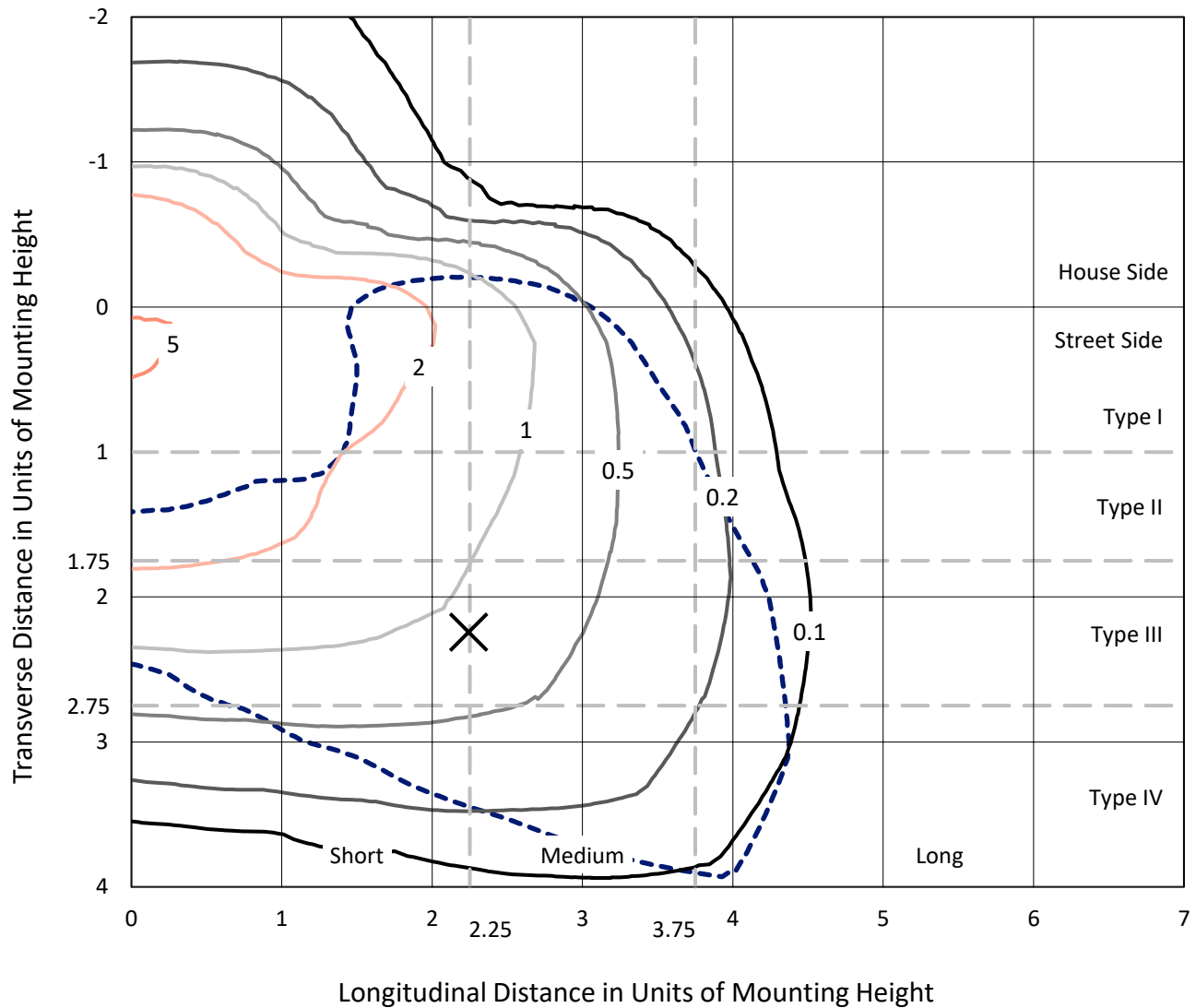


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

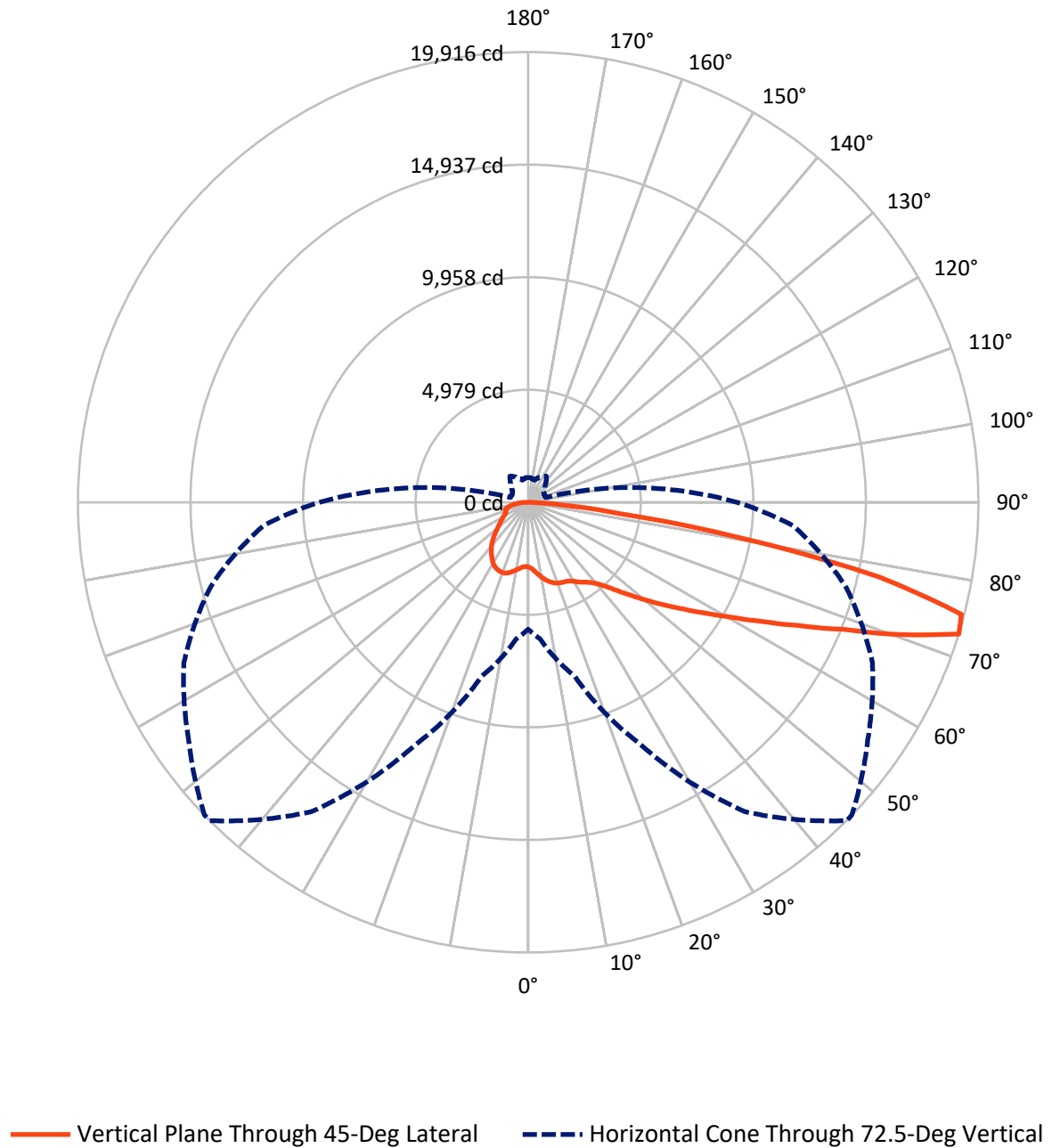


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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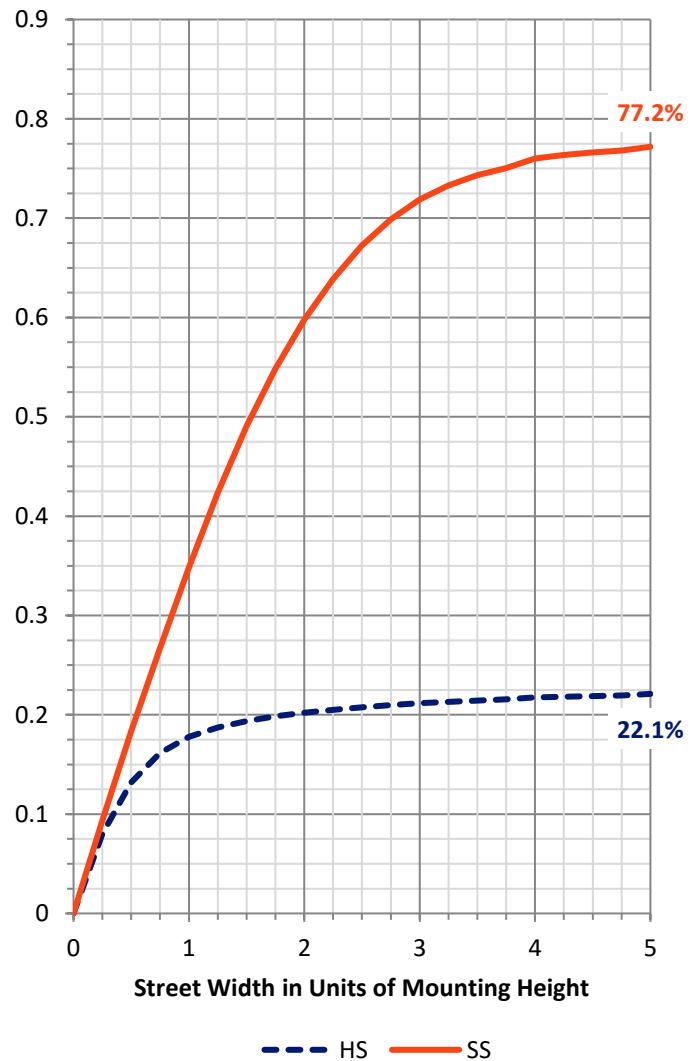
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6417.8	0.0	6417.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21971.2	0.0	21971.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	28389.0	0.0	28389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.5	1.0
10°-20°	971.9	3.4
20°-30°	1690.6	6.0
30°-40°	2423.6	8.5
40°-50°	3412.5	12.0
50°-60°	5227.0	18.4
60°-70°	7572.1	26.7
70°-80°	6046.8	21.3
80°-90°	753.1	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°	28389.0	100.0
0°-180°	28389.0	100.0

Coefficient of Utilization



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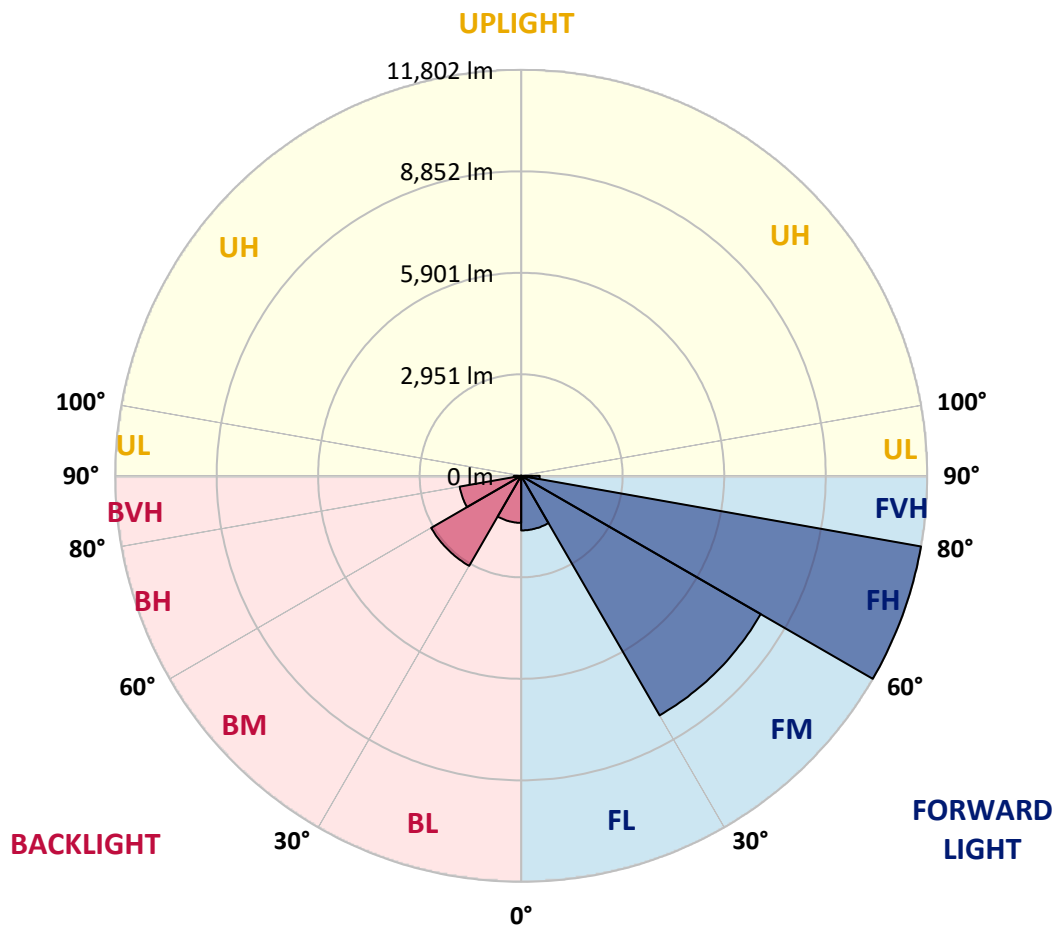
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1587.6	5.6			
FM	(30°-60°)	8041.2	28.3			
FH	(60°-80°)	11802.1	41.6			G4/12000
FVH	(80°-90°)	540.3	1.9			G4/750
BL	(0°-30°)	1366.4	4.8	B3/2500		
BM	(30°-60°)	3021.9	10.6	B3/5000		
BH	(60°-80°)	1816.7	6.4	B3/2500		G3/2500
BVH	(80°-90°)	212.8	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°	2863.9	2863.9	2863.9	2863.9	2863.9	2863.9	2863.9	2863.9	2863.9	2863.9	2863.9
2.5°	2976.1	2995.5	2977.6	2961.1	2953.6	2934.2	2932.7	2920.7	2913.2	2892.3	2886.3
5°	3183.9	3209.4	3179.4	3146.5	3116.6	3068.8	3062.8	3028.4	2989.5	2944.7	2919.2
7.5°	3418.7	3441.2	3406.8	3357.4	3305.1	3225.8	3224.3	3161.5	3100.2	3023.9	2980.5
10°	3623.6	3653.5	3607.2	3539.9	3474.1	3384.3	3373.9	3302.1	3224.3	3125.6	3059.8
12.5°	3804.6	3825.5	3780.6	3698.4	3622.1	3532.4	3518.9	3439.7	3352.9	3240.8	3157.0
15°	3948.1	3975.1	3915.2	3827.0	3746.2	3658.0	3646.0	3574.3	3487.5	3369.4	3261.7
17.5°	4042.4	4064.8	4003.5	3904.8	3827.0	3753.7	3744.8	3684.9	3608.7	3489.0	3373.9
20°	4078.2	4102.2	4037.9	3937.7	3865.9	3809.1	3804.6	3761.2	3708.9	3599.7	3483.0
22.5°	4114.1	4136.6	4052.8	3948.1	3885.3	3849.4	3847.9	3819.5	3798.6	3708.9	3595.2
25°	4259.2	4265.2	4153.0	4002.0	3912.2	3880.8	3879.3	3877.9	3886.8	3816.5	3716.3
27.5°	4384.8	4383.3	4287.6	4145.5	4006.5	3940.7	3939.2	3954.1	3982.5	3924.2	3842.0
30°	4568.8	4552.3	4438.7	4290.6	4163.5	4061.8	4052.8	4039.4	4061.8	4015.4	3967.6
32.5°	4959.1	4906.8	4722.8	4459.6	4293.6	4215.8	4203.9	4120.1	4129.1	4100.7	4076.8
35°	5518.4	5449.6	5204.4	4779.6	4455.1	4344.5	4338.5	4232.3	4214.3	4188.9	4197.9
37.5°	6183.9	6098.7	5813.0	5243.3	4733.3	4494.0	4485.0	4389.3	4316.0	4289.1	4340.0
40°	6852.4	6744.7	6508.5	5808.6	5143.1	4743.8	4715.3	4570.3	4486.5	4441.7	4549.3
42.5°	7501.5	7411.7	7209.8	6442.6	5648.5	5108.7	5045.8	4797.6	4734.8	4692.9	4887.3
45°	8075.7	7995.0	7846.9	7120.1	6240.8	5605.2	5543.8	5138.6	5119.1	5119.1	5400.3
47.5°	8542.3	8524.4	8367.4	7811.0	6939.2	6170.5	6064.3	5612.6	5665.0	5745.7	6128.6
50°	9059.8	9010.4	8842.9	8491.5	7760.2	6818.0	6731.3	6194.4	6390.3	6611.6	7181.4
52.5°	9535.4	9562.3	9375.3	9200.4	8687.4	7540.4	7387.8	6880.8	7304.1	7670.5	8415.2
55°	10024.4	10025.9	9973.5	9949.6	9659.5	8339.0	8171.5	7706.4	8379.3	8834.0	9853.9
57.5°	10483.5	10486.5	10564.3	10775.1	10787.1	9260.2	9070.3	8720.3	9574.2	10037.8	11337.4
60°	10893.3	10914.2	11126.6	11620.1	11778.6	10316.0	10136.6	9918.2	10809.5	11276.1	12897.3
62.5°	11030.9	11107.1	11579.7	12281.1	12758.2	11611.1	11434.7	11304.5	12107.6	12541.3	14201.3
65°	10797.6	10972.5	11886.3	12827.0	13766.1	13150.0	12975.0	12833.0	13456.6	13864.9	15272.1
67.5°	10224.8	10450.6	11868.4	13399.8	14989.5	15001.4	14838.4	14504.9	14902.7	15059.8	15620.6
70°	8715.8	9053.8	10823.0	13613.6	16393.8	17533.3	17376.3	16517.9	16345.9	15586.2	14639.5
72.5°	5615.6	6070.3	7969.6	11853.4	16706.3	19915.7	19906.7	18334.9	16802.0	14563.3	11741.2
75°	2048.8	2327.0	3702.9	7440.2	14023.4	19794.5	19852.9	18023.9	15337.9	11249.2	7314.5
77.5°	746.3	816.5	1208.4	2859.4	8624.6	15882.3	16003.4	14409.2	10917.2	5645.5	2898.3
80°	391.8	430.7	619.1	1109.7	3695.4	9432.2	9622.1	8563.3	5131.1	1700.4	868.9
82.5°	216.8	234.8	347.0	602.7	1664.5	4033.4	4147.0	3382.8	1805.1	720.8	358.9
85°	116.6	124.1	163.0	329.0	813.6	1398.3	1429.7	1011.0	719.3	423.2	173.5
87.5°	34.4	41.9	53.8	104.7	318.5	314.1	321.5	200.4	284.1	213.9	56.8
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°	2863.9	2863.9	2863.9	2863.9	2863.9	2863.9	2863.9	2863.9	2863.9	2863.9	2863.9
2.5°	2877.4	2872.9	2856.4	2848.9	2840.0	2838.5	2846.0	2847.4	2848.9	2850.4	2856.4
5°	2904.3	2889.3	2874.4	2865.4	2868.4	2869.9	2884.8	2895.3	2902.8	2908.8	2911.8
7.5°	2956.6	2944.7	2919.2	2917.7	2922.2	2935.7	2955.1	2979.1	2992.5	3003.0	3006.0
10°	3034.4	3012.0	2982.0	2986.5	2995.5	3014.9	3055.3	3074.8	3097.2	3116.6	3112.2
12.5°	3113.6	3094.2	3059.8	3062.8	3077.8	3112.2	3151.0	3175.0	3189.9	3204.9	3210.9
15°	3216.8	3182.4	3145.1	3145.1	3172.0	3209.4	3227.3	3246.7	3255.7	3272.2	3278.2
17.5°	3323.0	3278.2	3228.8	3225.8	3258.7	3276.7	3287.1	3290.1	3293.1	3311.1	3317.0
20°	3429.2	3379.8	3309.6	3303.6	3311.1	3308.1	3306.6	3303.6	3308.1	3330.5	3339.5
22.5°	3533.9	3477.1	3379.8	3352.9	3332.0	3303.6	3302.1	3300.6	3303.6	3326.0	3341.0
25°	3656.5	3587.7	3457.6	3376.9	3306.6	3267.7	3272.2	3273.7	3276.7	3294.6	3318.5
27.5°	3789.6	3713.3	3529.4	3369.4	3242.3	3215.3	3207.9	3212.4	3222.8	3251.2	3279.6
30°	3922.7	3833.0	3595.2	3339.5	3161.5	3124.1	3100.2	3110.7	3143.6	3172.0	3203.4
32.5°	4043.9	3954.1	3647.5	3273.7	3058.3	3000.0	2968.6	2982.0	3014.9	3025.4	3062.8
35°	4185.9	4084.2	3670.0	3169.0	2946.2	2856.4	2814.5	2795.1	2811.6	2801.1	2834.0
37.5°	4344.5	4238.3	3667.0	3031.4	2814.5	2711.4	2653.0	2579.8	2545.4	2509.5	2531.9
40°	4579.2	4426.7	3631.1	2865.4	2651.5	2557.3	2452.6	2328.5	2250.7	2180.5	2184.9
42.5°	4899.3	4688.4	3565.3	2682.9	2467.6	2379.4	2237.3	2092.2	1969.6	1852.9	1842.5
45°	5376.4	5030.9	3483.0	2488.5	2268.7	2181.9	2027.9	1864.9	1725.8	1576.3	1558.3
47.5°	6064.3	5491.5	3405.3	2267.2	2059.3	1980.1	1841.0	1689.9	1525.4	1380.4	1363.9
50°	7009.4	6152.5	3333.5	2051.8	1852.9	1793.1	1682.4	1528.4	1362.4	1245.8	1238.3
52.5°	8211.8	7051.3	3303.6	1844.0	1660.0	1637.6	1549.3	1405.8	1248.7	1150.0	1142.6
55°	9592.2	8126.6	3303.6	1645.1	1491.0	1498.5	1437.2	1304.1	1168.0	1079.8	1070.8
57.5°	11001.0	9215.3	3243.8	1461.1	1347.5	1378.9	1340.0	1223.3	1100.7	1009.5	994.5
60°	12299.1	10127.6	3001.5	1293.6	1220.3	1269.7	1244.3	1144.1	994.5	918.2	906.3
62.5°	13296.6	10642.0	2534.9	1160.5	1115.6	1172.5	1159.0	1039.4	975.1	943.7	933.2
65°	13796.1	10558.3	1938.2	1042.4	1027.4	1115.6	1087.2	1082.7	1031.9	996.0	984.0
67.5°	13489.5	9837.5	1405.8	955.6	976.6	1063.3	1172.5	1190.4	1096.2	1025.9	1014.0
70°	12145.0	8533.4	1046.9	873.4	912.3	1064.8	1337.0	1245.8	1075.3	993.0	979.6
72.5°	9239.2	6363.4	812.1	786.6	828.5	1072.3	1410.3	1220.3	1015.4	1097.7	1088.7
75°	5283.6	3493.5	652.0	680.5	723.8	1002.0	1372.9	1154.5	969.1	1008.0	1008.0
77.5°	2014.4	1343.0	538.4	575.8	581.8	874.9	1313.1	1150.0	922.7	900.3	821.0
80°	698.4	524.9	445.7	457.6	450.1	777.7	1259.2	1000.5	755.2	676.0	653.5
82.5°	285.6	261.7	352.9	338.0	320.0	604.2	1016.9	818.0	617.6	545.9	539.9
85°	124.1	166.0	233.3	204.9	185.4	418.7	815.1	692.4	521.9	450.1	448.7
87.5°	25.4	62.8	98.7	92.7	95.7	279.7	578.8	492.0	369.4	276.7	216.8
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)