

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: P950918

Luminaire Tested: **GALN-SB5B-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18100 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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

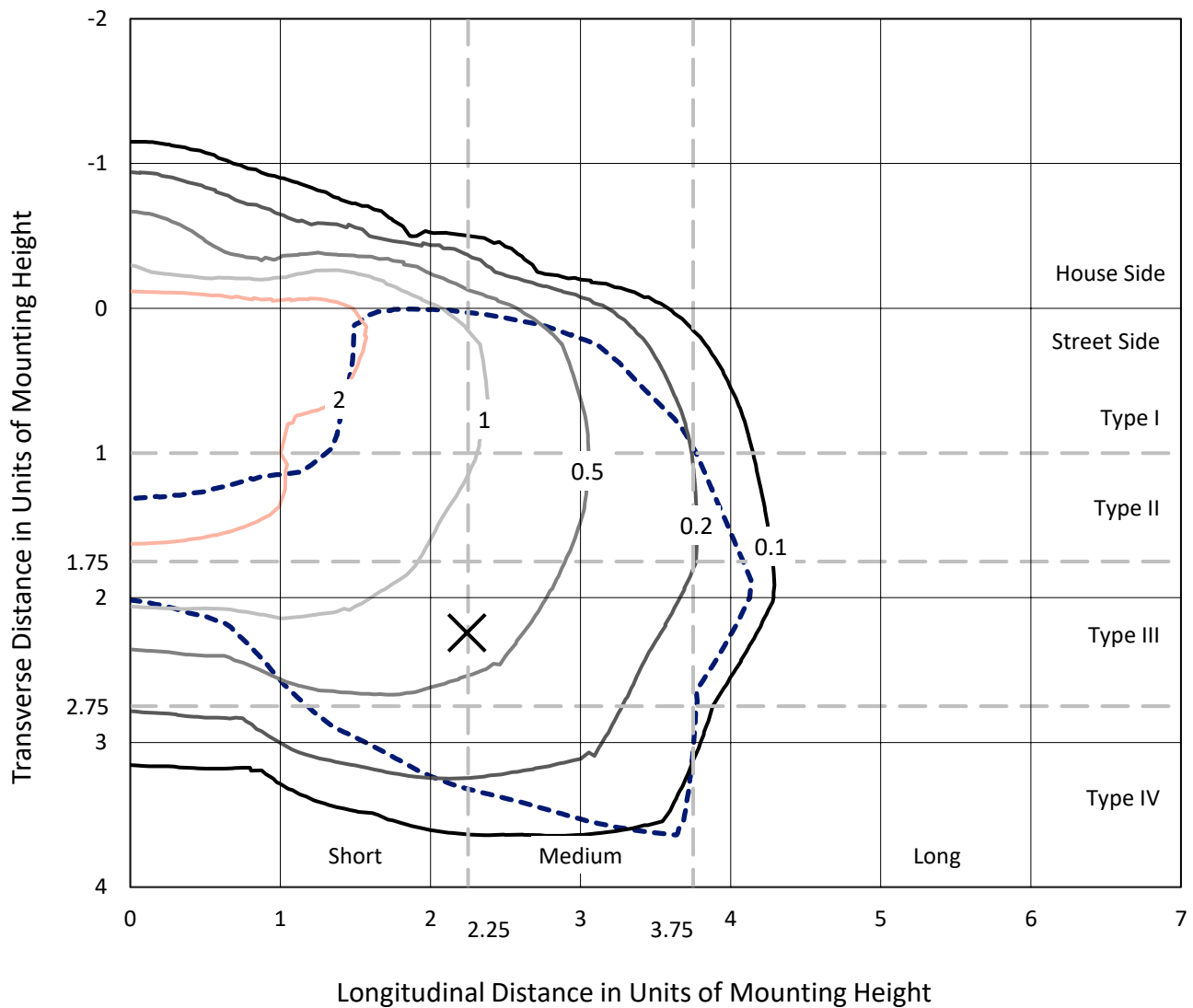


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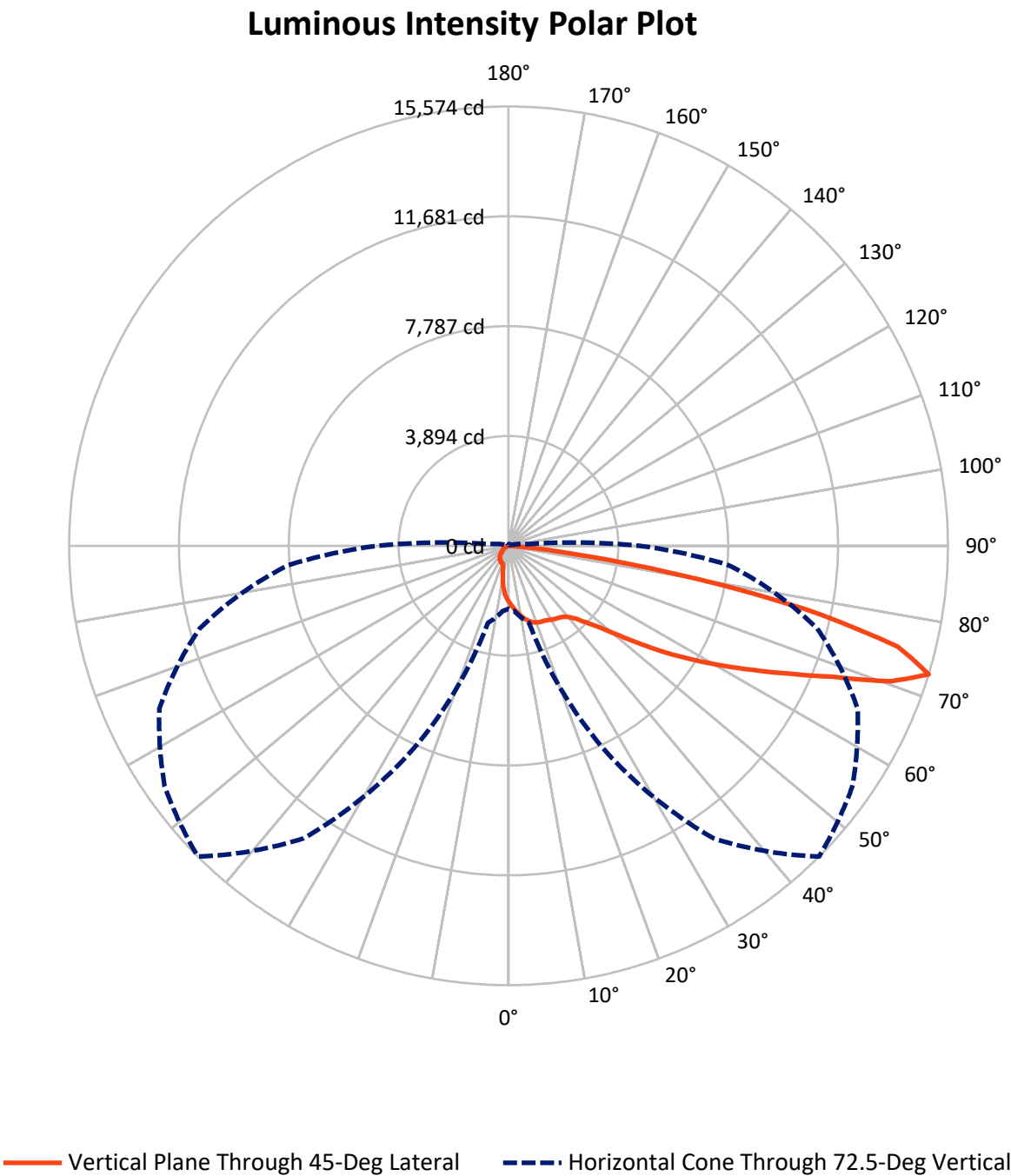
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type IV - Short - N/A

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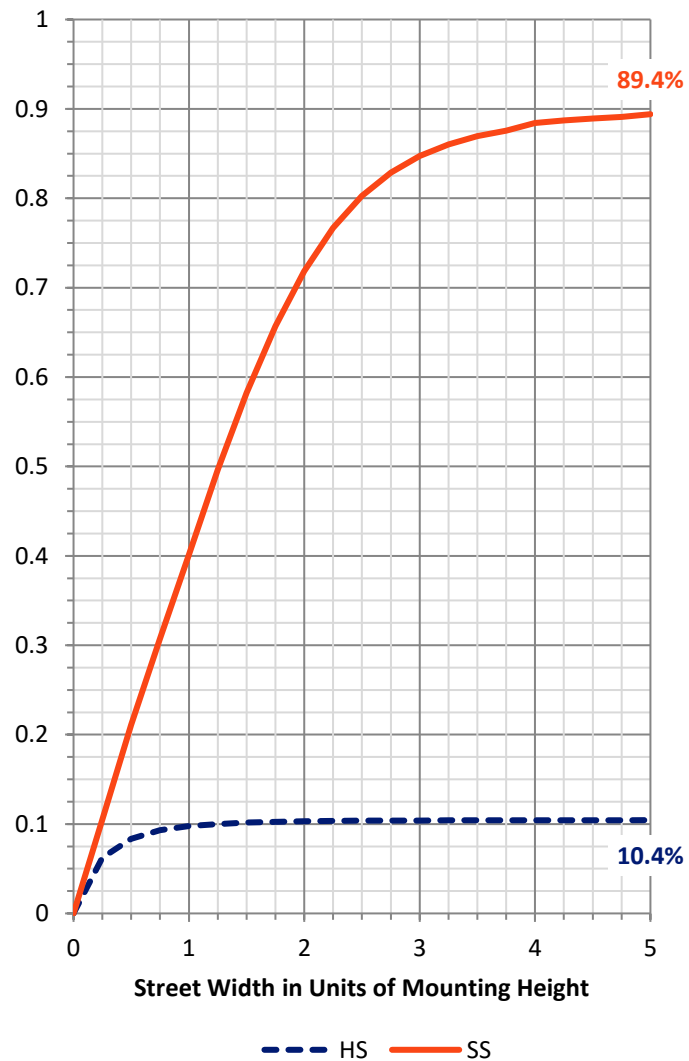
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1901.8	0.0	1901.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16198.2	0.0	16198.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	18100.0	0.0	18100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	1.0
10°-20°	546.0	3.0
20°-30°	896.7	5.0
30°-40°	1271.7	7.0
40°-50°	2101.9	11.6
50°-60°	3775.9	20.9
60°-70°	5243.0	29.0
70°-80°	3803.1	21.0
80°-90°	275.0	1.5
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°	18100.0	100.0
0°-180°	18100.0	100.0

Coefficient of Utilization



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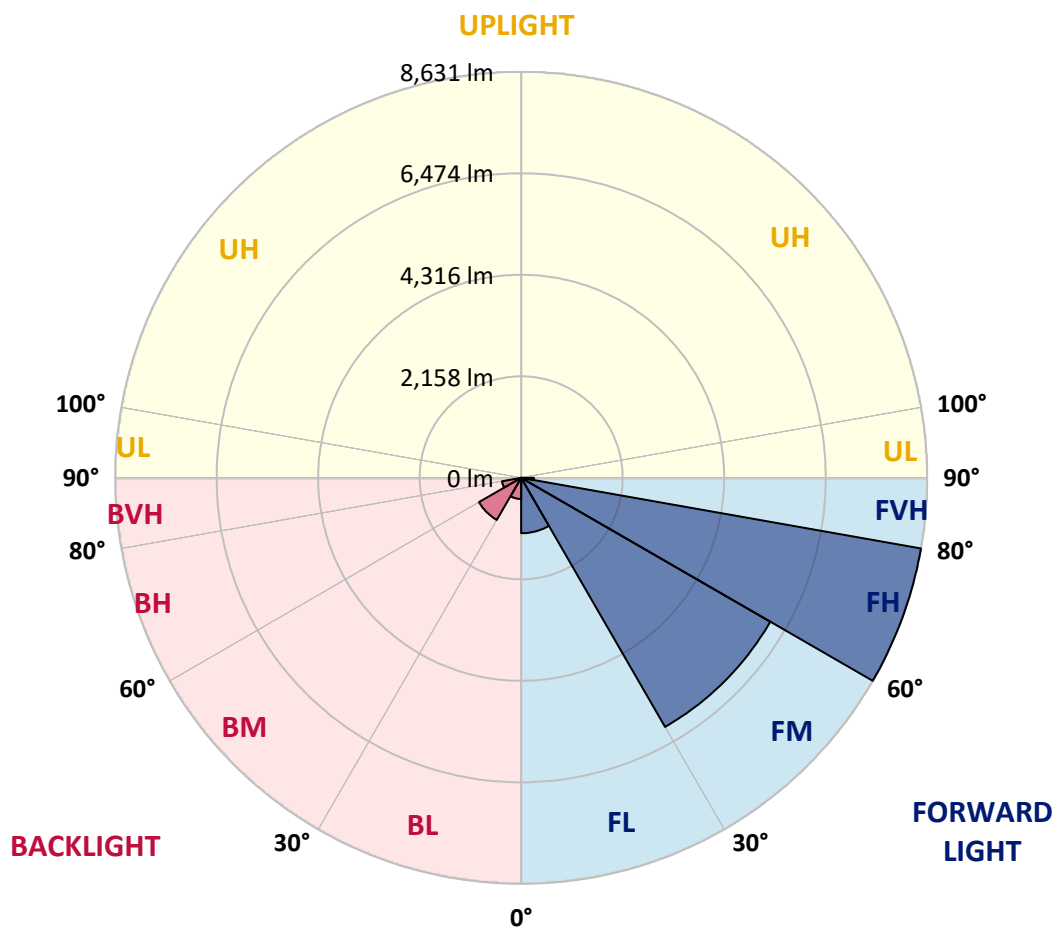
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1179.0	6.5			
FM	(30°-60°)	6115.1	33.8			
FH	(60°-80°)	8631.4	47.7			G4/12000
FVH	(80°-90°)	272.6	1.5			G3/500
BL	(0°-30°)	450.5	2.5	B1/500		
BM	(30°-60°)	1034.3	5.7	B2/2500		
BH	(60°-80°)	414.7	2.3	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9
2.5°	2165.7	2169.4	2167.0	2152.1	2127.4	2113.9	2106.4	2081.7	2065.7	2037.3	2007.6
5°	2364.6	2379.5	2370.8	2341.2	2294.2	2260.9	2251.0	2200.3	2154.6	2101.5	2039.7
7.5°	2575.9	2583.3	2567.3	2529.0	2466.0	2409.1	2400.5	2330.1	2257.2	2175.6	2091.6
10°	2758.8	2767.4	2742.7	2687.1	2615.4	2545.0	2532.7	2454.8	2368.4	2268.3	2160.8
12.5°	2912.0	2920.6	2888.5	2821.8	2742.7	2669.8	2657.4	2575.9	2480.8	2369.6	2236.2
15°	3028.1	3044.1	3000.9	2929.2	2844.0	2771.1	2764.9	2684.6	2592.0	2468.4	2326.3
17.5°	3096.0	3112.1	3071.3	2984.8	2912.0	2850.2	2842.8	2776.1	2689.6	2571.0	2414.1
20°	3107.2	3122.0	3078.7	3003.4	2942.8	2893.4	2889.7	2841.5	2778.5	2664.9	2509.2
22.5°	3073.8	3092.3	3052.8	2992.3	2950.2	2924.3	2919.4	2892.2	2856.4	2760.0	2598.1
25°	3039.2	3054.0	3024.4	2971.3	2949.0	2946.5	2950.2	2945.3	2937.9	2856.4	2701.9
27.5°	3036.7	3052.8	3019.4	2968.8	2956.4	2982.4	2986.1	3009.6	3015.7	2944.1	2802.0
30°	3057.7	3068.9	3036.7	2983.6	2977.4	3036.7	3038.0	3080.0	3089.9	3018.2	2900.8
32.5°	3103.4	3115.8	3083.7	3005.8	2997.2	3080.0	3083.7	3139.3	3155.3	3097.3	3004.6
35°	3210.9	3225.8	3188.7	3067.6	3036.7	3120.7	3131.9	3197.3	3229.5	3181.3	3112.1
37.5°	3479.0	3435.8	3385.1	3192.4	3126.9	3185.0	3203.5	3280.1	3336.9	3281.3	3240.6
40°	4144.9	4009.0	3850.9	3404.9	3285.1	3322.1	3336.9	3413.5	3491.4	3437.0	3417.2
42.5°	5144.4	4983.8	4729.3	3894.1	3523.5	3542.0	3553.1	3619.9	3729.8	3686.6	3691.5
45°	6035.2	5977.1	5717.7	4729.3	3969.5	3878.1	3891.7	3926.3	4088.1	4072.0	4104.2
47.5°	6719.6	6686.2	6486.1	5688.0	4723.1	4289.5	4327.8	4343.8	4577.3	4634.2	4720.6
50°	7245.9	7233.5	7054.4	6540.5	5707.8	4896.1	4909.7	4875.1	5224.7	5365.5	5529.9
52.5°	7742.6	7784.6	7652.4	7332.4	6759.1	5690.5	5688.0	5524.9	5996.9	6209.4	6489.8
55°	8191.0	8205.8	8219.4	8140.4	7816.7	6594.8	6571.3	6304.5	6892.6	7112.5	7416.4
57.5°	8612.3	8618.5	8739.6	8901.4	8917.5	7565.9	7522.6	7202.7	7871.0	8027.9	8214.5
60°	8895.2	8923.6	9179.4	9629.1	9825.5	8567.8	8544.4	8218.2	8866.8	8939.7	8905.1
62.5°	8487.5	8660.5	9305.4	10197.4	10682.9	9678.5	9667.4	9361.0	9914.5	9855.2	9558.7
65°	6870.3	7163.1	8297.3	10581.6	11524.3	10918.9	10934.9	10608.8	10990.5	10797.8	10089.9
67.5°	4805.9	5114.8	6456.4	10612.5	12464.4	12375.5	12468.1	11956.7	12133.3	11700.9	10215.9
70°	3323.4	3482.7	4356.2	9947.8	13197.1	14381.8	14379.4	13612.2	13269.9	12112.3	9573.5
72.5°	2234.9	2317.7	2829.2	7892.0	12658.4	15574.1	15502.4	14877.3	13652.9	11327.8	7821.6
75°	942.6	1003.2	1309.6	4435.3	10014.5	14248.4	14054.5	13147.6	12130.9	8919.9	4880.0
77.5°	299.0	324.9	516.4	1587.6	5516.3	10710.1	10505.0	8210.8	8130.5	4474.8	1784.0
80°	142.1	165.5	290.3	637.5	2170.7	5825.1	5796.7	3724.9	3497.6	1208.3	358.3
82.5°	61.8	72.9	160.6	341.0	971.1	2078.0	2120.0	1267.6	1048.9	458.4	110.0
85°	19.8	25.9	74.1	156.9	410.2	516.4	510.2	301.4	422.5	249.6	38.3
87.5°	0.0	0.0	24.7	35.8	42.0	29.7	33.4	25.9	117.4	69.2	13.6
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°	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9
2.5°	1992.8	1973.0	1938.4	1906.3	1877.9	1849.5	1832.2	1807.5	1805.0	1805.0	1811.2
5°	2006.4	1974.2	1912.5	1847.0	1771.6	1700.0	1628.3	1559.1	1536.9	1520.8	1528.2
7.5°	2045.9	1995.2	1897.6	1772.9	1629.6	1472.7	1362.7	1244.1	1198.4	1173.7	1177.4
10°	2102.7	2033.5	1885.3	1666.6	1434.4	1220.6	1063.7	935.2	885.8	864.8	864.8
12.5°	2165.7	2080.5	1863.1	1534.4	1220.6	964.9	811.7	752.4	745.0	745.0	745.0
15°	2241.1	2137.3	1824.8	1378.8	997.0	763.5	709.1	711.6	719.0	724.0	724.0
17.5°	2318.9	2197.9	1764.2	1204.6	799.3	686.9	688.1	691.9	698.0	703.0	703.0
20°	2402.9	2258.4	1683.9	1019.2	685.7	664.7	668.4	672.1	677.0	679.5	680.7
22.5°	2493.1	2315.2	1588.8	837.6	647.4	646.1	647.4	651.1	657.3	657.3	659.7
25°	2589.5	2378.2	1480.1	705.4	627.6	627.6	630.1	632.5	637.5	637.5	638.7
27.5°	2688.3	2436.3	1365.2	636.3	610.3	609.1	609.1	612.8	615.3	616.5	617.7
30°	2797.1	2504.3	1250.3	621.4	596.7	590.5	586.8	589.3	591.8	593.0	595.5
32.5°	2908.2	2569.7	1147.7	627.6	583.1	572.0	559.7	557.2	557.2	562.1	565.8
35°	3031.8	2641.4	1068.7	648.6	575.7	544.8	525.1	513.9	515.2	522.6	526.3
37.5°	3180.0	2727.9	1010.6	667.1	570.8	513.9	481.8	468.2	459.6	468.2	465.8
40°	3374.0	2855.1	968.6	682.0	564.6	478.1	434.9	412.6	396.6	401.5	399.0
42.5°	3659.4	3055.3	952.5	683.2	551.0	436.1	386.7	357.0	333.6	334.8	329.9
45°	4059.7	3371.5	1035.3	667.1	521.4	390.4	336.0	296.5	281.7	278.0	273.0
47.5°	4608.2	3832.4	1226.8	633.8	478.1	345.9	286.6	253.3	242.1	236.0	232.3
50°	5343.3	4424.1	1439.3	596.7	434.9	303.9	245.9	224.9	217.4	211.3	210.0
52.5°	6195.8	5024.6	1613.5	559.7	391.6	266.9	219.9	207.6	201.4	196.4	195.2
55°	6977.8	5438.4	1603.6	520.1	349.6	237.2	201.4	194.0	186.6	181.6	179.1
57.5°	7464.6	5496.5	1321.9	476.9	301.4	213.7	184.1	179.1	170.5	164.3	163.1
60°	7688.2	5165.4	926.6	420.1	253.3	191.5	165.5	163.1	152.0	143.3	140.8
62.5°	7729.0	4550.2	617.7	349.6	211.3	170.5	147.0	143.3	128.5	113.7	106.2
65°	7563.4	3670.5	427.5	273.0	180.4	148.3	126.0	118.6	102.5	87.7	82.8
67.5°	7039.6	2577.1	297.7	196.4	153.2	117.4	100.1	97.6	85.2	72.9	69.2
70°	6079.6	1468.9	198.9	147.0	121.1	80.3	79.1	81.5	69.2	59.3	54.4
72.5°	4661.3	672.1	123.5	107.5	82.8	54.4	63.0	64.2	53.1	44.5	39.5
75°	2743.9	287.9	77.8	69.2	42.0	35.8	45.7	46.9	35.8	28.4	24.7
77.5°	934.0	108.7	49.4	40.8	21.0	19.8	29.7	29.7	19.8	11.1	8.6
80°	212.5	40.8	24.7	16.1	9.9	8.6	9.9	8.6	4.9	1.2	0.0
82.5°	60.5	16.1	9.9	6.2	3.7	3.7	1.2	0.0	0.0	0.0	0.0
85°	17.3	7.4	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)