

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: P949847

Luminaire Tested: **GALN-SB4C-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949847
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-SB4C-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA 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: 19099 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 200.7
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

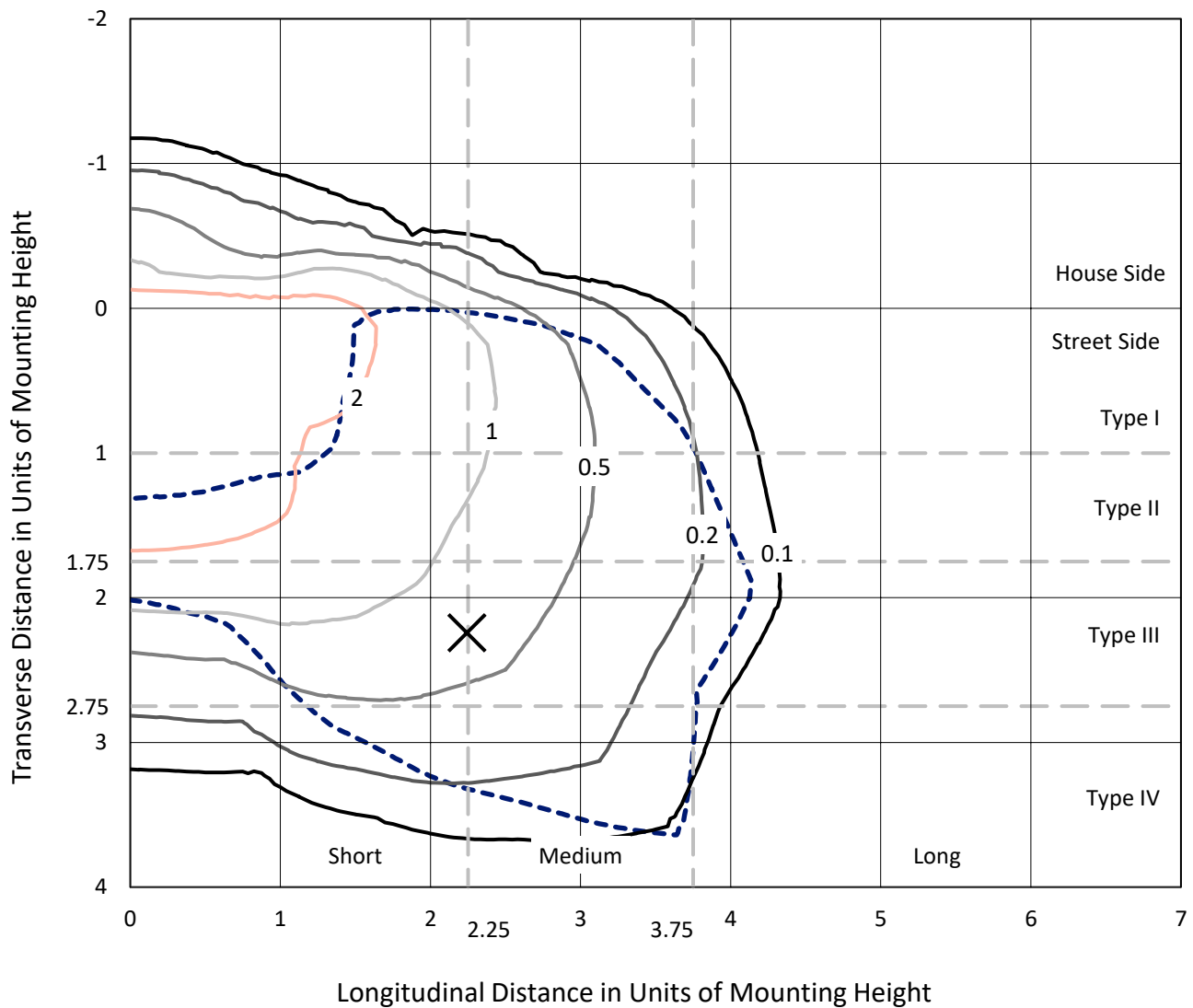


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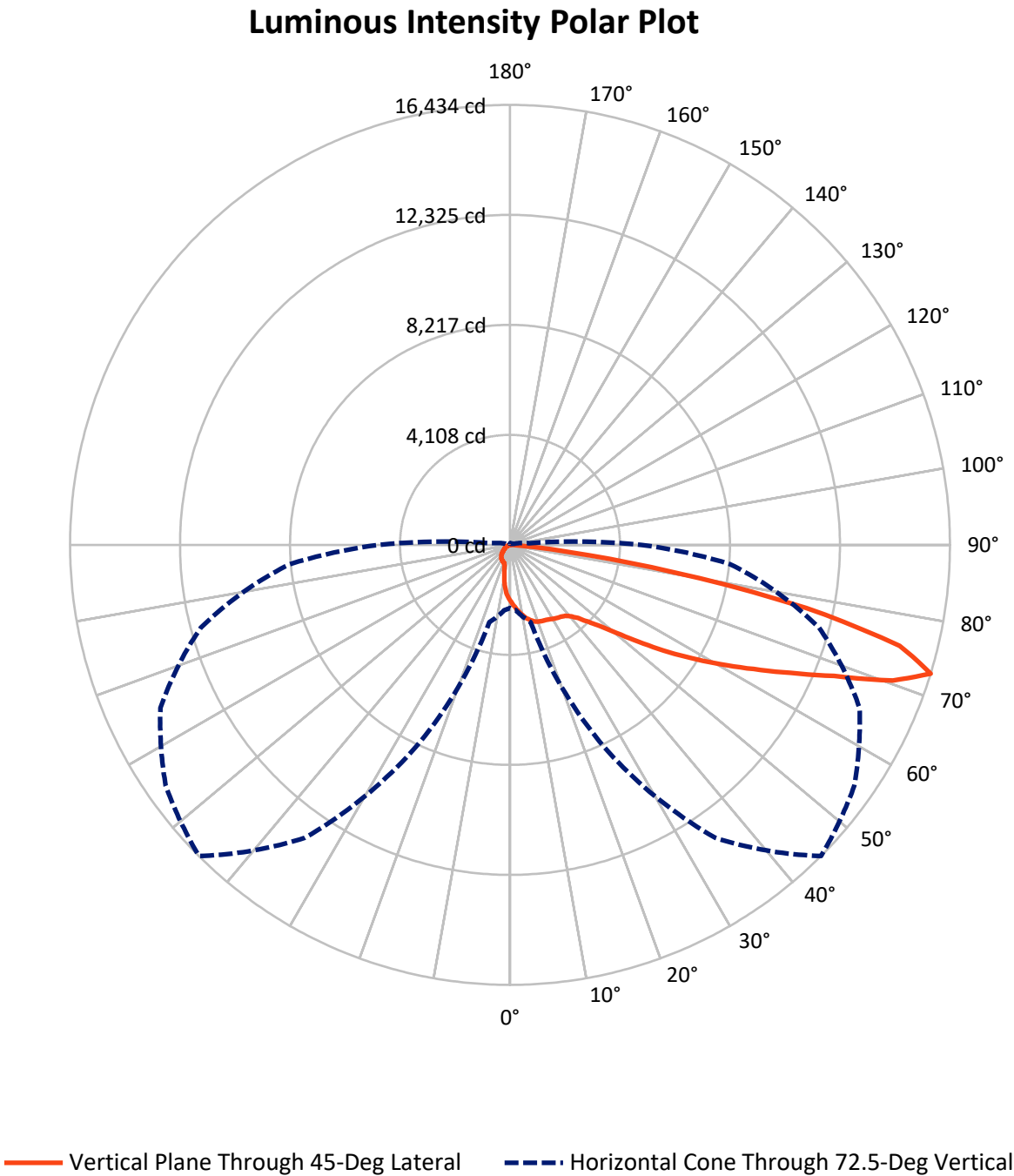
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type IV - Short - N/A

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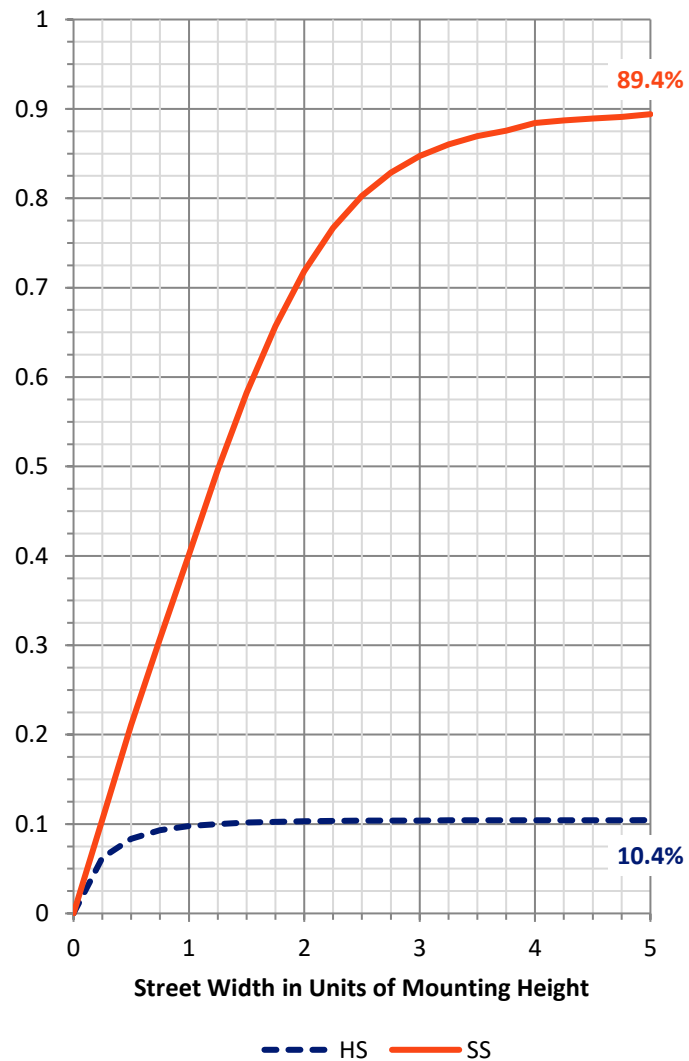
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2006.8	0.0	2006.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17092.2	0.0	17092.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	19099.0	0.0	19099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	1.0
10°-20°	576.2	3.0
20°-30°	946.1	5.0
30°-40°	1341.8	7.0
40°-50°	2217.9	11.6
50°-60°	3984.3	20.9
60°-70°	5532.4	29.0
70°-80°	4013.0	21.0
80°-90°	290.1	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°	19099.0	100.0
0°-180°	19099.0	100.0

Coefficient of Utilization



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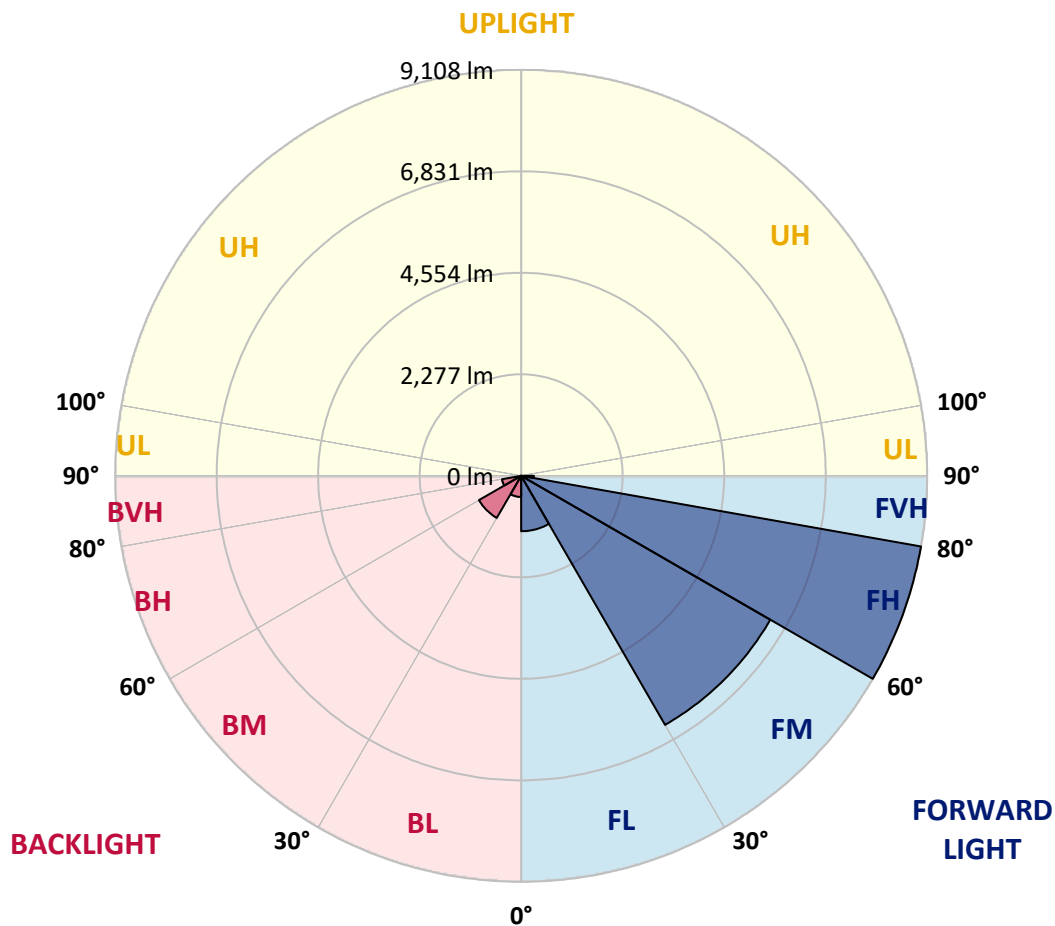
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1244.1	6.5			
FM	(30°-60°)	6452.7	33.8			
FH	(60°-80°)	9107.8	47.7			G4/12000
FVH	(80°-90°)	287.7	1.5			G3/500
BL	(0°-30°)	475.3	2.5	B1/500		
BM	(30°-60°)	1091.4	5.7	B2/2500		
BH	(60°-80°)	437.6	2.3	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	2092.3	2092.3	2092.3	2092.3	2092.3	2092.3	2092.3	2092.3	2092.3	2092.3	2092.3
2.5°	2285.3	2289.2	2286.6	2270.9	2244.9	2230.5	2222.7	2196.6	2179.7	2149.7	2118.4
5°	2495.2	2510.8	2501.7	2470.4	2420.9	2385.7	2375.2	2321.8	2273.5	2217.5	2152.3
7.5°	2718.1	2725.9	2709.0	2668.5	2602.1	2542.1	2533.0	2458.7	2381.7	2295.7	2207.1
10°	2911.0	2920.1	2894.1	2835.4	2759.8	2685.5	2672.5	2590.3	2499.1	2393.5	2280.1
12.5°	3072.7	3081.8	3047.9	2977.5	2894.1	2817.2	2804.1	2718.1	2617.7	2500.4	2359.6
15°	3195.2	3212.2	3166.5	3090.9	3001.0	2924.1	2917.5	2832.8	2735.0	2604.7	2454.7
17.5°	3266.9	3283.9	3240.8	3149.6	3072.7	3007.5	2999.7	2929.3	2838.0	2712.9	2547.3
20°	3278.6	3294.3	3248.7	3169.1	3105.3	3053.1	3049.2	2998.4	2931.9	2811.9	2647.7
22.5°	3243.4	3263.0	3221.3	3157.4	3113.1	3085.7	3080.5	3051.8	3014.0	2912.3	2741.5
25°	3206.9	3222.6	3191.3	3135.2	3111.8	3109.2	3113.1	3107.9	3100.0	3014.0	2851.1
27.5°	3204.3	3221.3	3186.1	3132.6	3119.6	3147.0	3150.9	3175.7	3182.2	3106.6	2956.6
30°	3226.5	3238.2	3204.3	3148.3	3141.8	3204.3	3205.6	3250.0	3260.4	3184.8	3060.9
32.5°	3274.7	3287.8	3253.9	3171.7	3162.6	3250.0	3253.9	3312.5	3329.5	3268.2	3170.4
35°	3388.2	3403.8	3364.7	3236.9	3204.3	3293.0	3304.7	3373.8	3407.7	3356.9	3283.9
37.5°	3671.0	3625.4	3572.0	3368.6	3299.5	3360.8	3380.3	3461.2	3521.1	3462.5	3419.4
40°	4373.7	4230.3	4063.4	3592.8	3466.4	3505.5	3521.1	3601.9	3684.1	3626.7	3605.9
42.5°	5428.3	5258.9	4990.3	4109.1	3718.0	3737.5	3749.3	3819.7	3935.7	3890.1	3895.3
45°	6368.3	6307.0	6033.2	4990.3	4188.6	4092.1	4106.5	4143.0	4313.7	4296.8	4330.7
47.5°	7090.5	7055.3	6844.1	6001.9	4983.8	4526.2	4566.6	4583.6	4830.0	4889.9	4981.2
50°	7645.8	7632.8	7443.8	6901.4	6022.8	5166.3	5180.7	5144.1	5513.1	5661.7	5835.1
52.5°	8169.9	8214.2	8074.7	7737.1	7132.2	6004.5	6001.9	5829.9	6327.9	6552.1	6848.0
55°	8643.1	8658.8	8673.1	8589.7	8248.1	6958.8	6934.0	6652.5	7273.0	7505.0	7825.7
57.5°	9087.6	9094.2	9221.9	9392.7	9409.6	7983.5	7937.8	7600.2	8305.5	8471.0	8667.9
60°	9386.2	9416.2	9686.0	10160.5	10367.8	9040.7	9015.9	8671.8	9356.2	9433.1	9396.6
62.5°	8956.0	9138.5	9819.0	10760.2	11272.5	10212.7	10201.0	9877.7	10461.7	10399.1	10086.2
65°	7249.5	7558.5	8755.2	11165.6	12160.3	11521.5	11538.5	11194.3	11597.1	11393.8	10646.8
67.5°	5071.1	5397.1	6812.8	11198.2	13152.4	13058.5	13156.3	12616.6	12803.0	12346.7	10779.8
70°	3506.8	3675.0	4596.6	10496.9	13925.4	15175.6	15173.0	14363.5	14002.4	12780.8	10101.9
72.5°	2358.3	2445.6	2985.3	8327.6	13357.1	16433.6	16358.0	15698.4	14406.5	11953.0	8253.3
75°	994.7	1058.6	1381.9	4680.1	10567.3	15034.8	14830.2	13873.3	12800.4	9412.3	5149.4
77.5°	315.5	342.9	544.9	1675.2	5820.7	11301.2	11084.8	8664.0	8579.2	4721.8	1882.5
80°	149.9	174.7	306.4	672.7	2290.5	6146.6	6116.7	3930.5	3690.6	1275.0	378.1
82.5°	65.2	76.9	169.5	359.8	1024.7	2192.7	2237.0	1337.5	1106.8	483.6	116.0
85°	20.9	27.4	78.2	165.6	432.8	544.9	538.4	318.1	445.8	263.3	40.4
87.5°	0.0	0.0	26.1	37.8	44.3	31.3	35.2	27.4	123.8	73.0	14.3
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°	2092.3	2092.3	2092.3	2092.3	2092.3	2092.3	2092.3	2092.3	2092.3	2092.3	2092.3
2.5°	2102.8	2081.9	2045.4	2011.5	1981.5	1951.5	1933.3	1907.2	1904.6	1904.6	1911.1
5°	2117.1	2083.2	2018.0	1948.9	1869.4	1793.8	1718.2	1645.2	1621.7	1604.8	1612.6
7.5°	2158.8	2105.4	2002.4	1870.7	1719.5	1553.9	1437.9	1312.8	1264.5	1238.5	1242.4
10°	2218.8	2145.8	1989.3	1758.6	1513.5	1288.0	1122.4	986.9	934.7	912.5	912.5
12.5°	2285.3	2195.3	1965.9	1619.1	1288.0	1018.1	856.5	793.9	786.1	786.1	786.1
15°	2364.8	2255.3	1925.5	1454.9	1052.0	805.6	748.3	750.9	758.7	763.9	763.9
17.5°	2446.9	2319.2	1861.6	1271.0	843.5	724.8	726.1	730.0	736.6	741.8	741.8
20°	2535.6	2383.0	1776.9	1075.5	723.5	701.4	705.3	709.2	714.4	717.0	718.3
22.5°	2630.7	2443.0	1676.5	883.9	683.1	681.8	683.1	687.0	693.5	693.5	696.1
25°	2732.4	2509.5	1561.8	744.4	662.2	662.2	664.9	667.5	672.7	672.7	674.0
27.5°	2836.7	2570.8	1440.5	671.4	644.0	642.7	642.7	646.6	649.2	650.5	651.8
30°	2951.4	2642.5	1319.3	655.7	629.7	623.1	619.2	621.8	624.4	625.7	628.4
32.5°	3068.8	2711.6	1211.1	662.2	615.3	603.6	590.5	587.9	587.9	593.2	597.1
35°	3199.1	2787.2	1127.6	684.4	607.5	574.9	554.0	542.3	543.6	551.4	555.3
37.5°	3355.6	2878.4	1066.4	704.0	602.3	542.3	508.4	494.1	485.0	494.1	491.5
40°	3560.2	3012.7	1022.1	719.6	595.8	504.5	458.9	435.4	418.5	423.7	421.1
42.5°	3861.4	3223.9	1005.1	720.9	581.4	460.2	408.0	376.8	352.0	353.3	348.1
45°	4283.7	3557.6	1092.4	704.0	550.1	411.9	354.6	312.9	297.2	293.3	288.1
47.5°	4862.6	4043.9	1294.5	668.8	504.5	365.0	302.4	267.2	255.5	249.0	245.1
50°	5638.2	4668.3	1518.7	629.7	458.9	320.7	259.4	237.3	229.4	222.9	221.6
52.5°	6537.7	5301.9	1702.5	590.5	413.3	281.6	232.0	219.0	212.5	207.3	206.0
55°	7362.9	5738.6	1692.1	548.8	368.9	250.3	212.5	204.7	196.8	191.6	189.0
57.5°	7876.6	5799.9	1394.9	503.2	318.1	225.5	194.2	189.0	179.9	173.4	172.1
60°	8112.5	5450.5	977.7	443.2	267.2	202.1	174.7	172.1	160.3	151.2	148.6
62.5°	8155.5	4801.3	651.8	368.9	222.9	179.9	155.1	151.2	135.6	119.9	112.1
65°	7980.9	3873.1	451.1	288.1	190.3	156.4	133.0	125.1	108.2	92.6	87.3
67.5°	7428.1	2719.4	314.2	207.3	161.7	123.8	105.6	103.0	90.0	76.9	73.0
70°	6415.2	1550.0	209.9	155.1	127.8	84.7	83.4	86.0	73.0	62.6	57.4
72.5°	4918.6	709.2	130.4	113.4	87.3	57.4	66.5	67.8	56.1	46.9	41.7
75°	2895.4	303.7	82.1	73.0	44.3	37.8	48.2	49.5	37.8	30.0	26.1
77.5°	985.5	114.7	52.1	43.0	22.2	20.9	31.3	31.3	20.9	11.7	9.1
80°	224.2	43.0	26.1	16.9	10.4	9.1	10.4	9.1	5.2	1.3	0.0
82.5°	63.9	16.9	10.4	6.5	3.9	3.9	1.3	0.0	0.0	0.0	0.0
85°	18.3	7.8	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	1.3	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)