

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: P950603

Luminaire Tested: **GALN-SB5A-730-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950603
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-SB5A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA 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: 17454 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 141.7
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



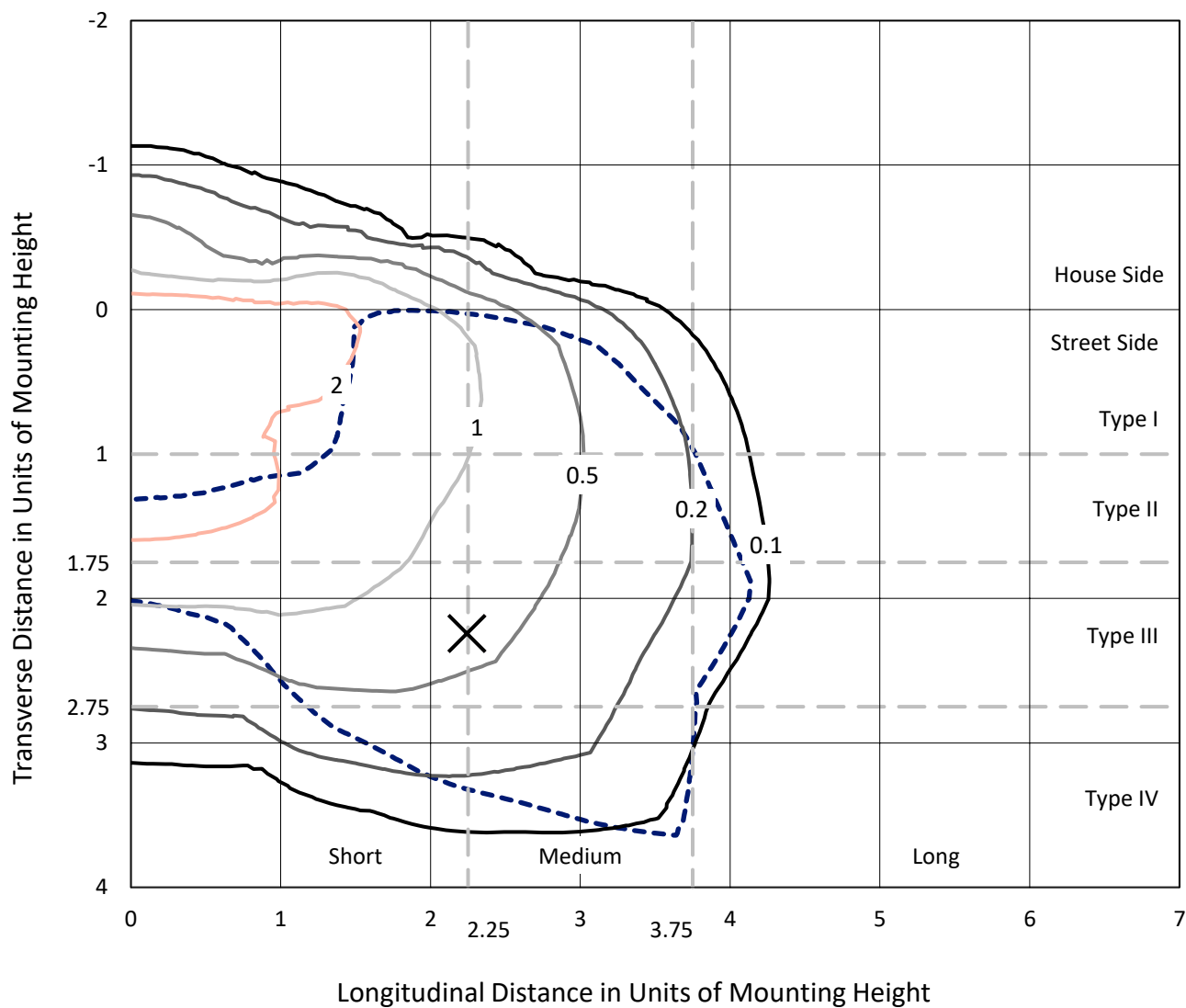
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Iso-Footcandle Lines of Horizontal Illumination

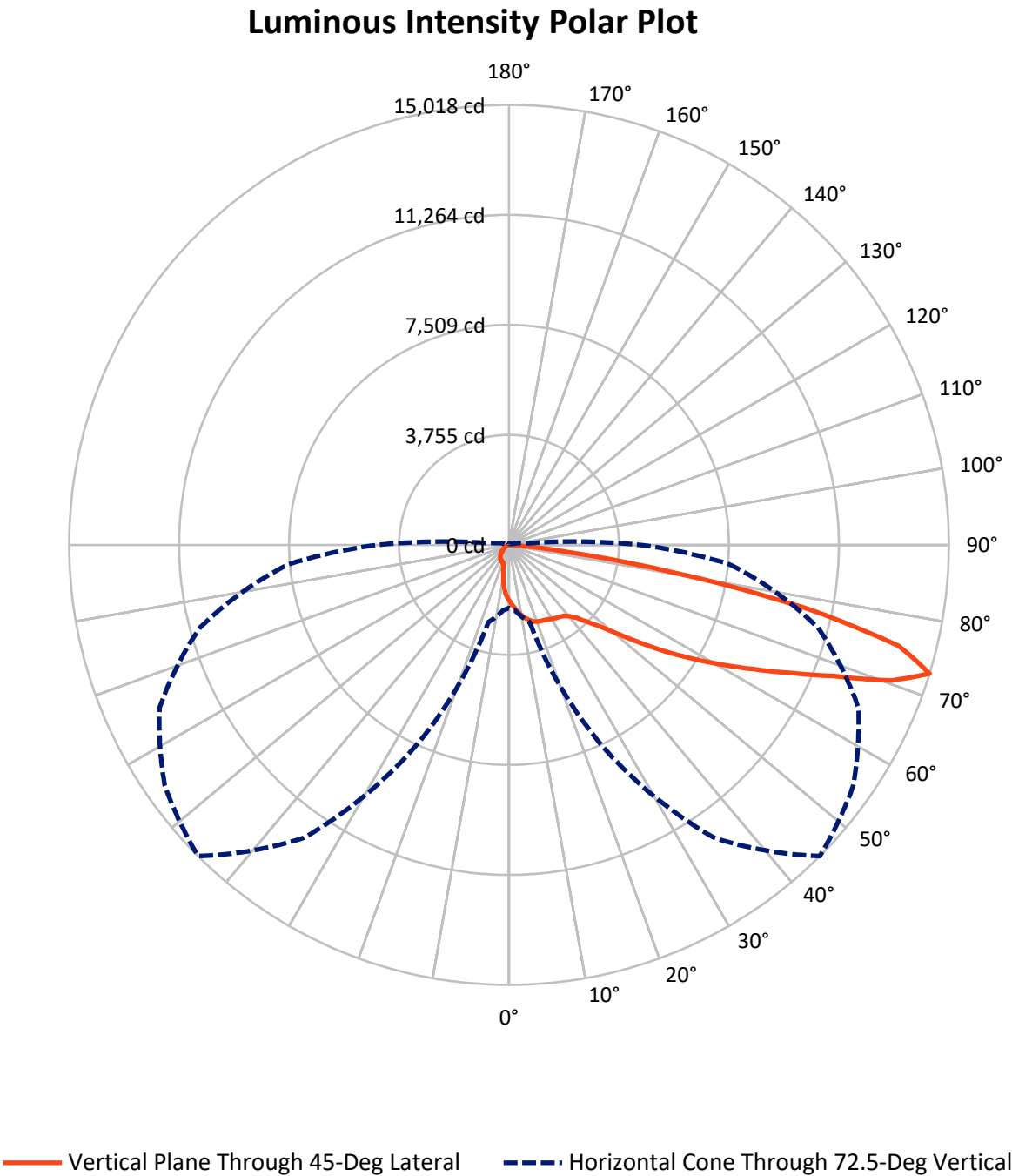
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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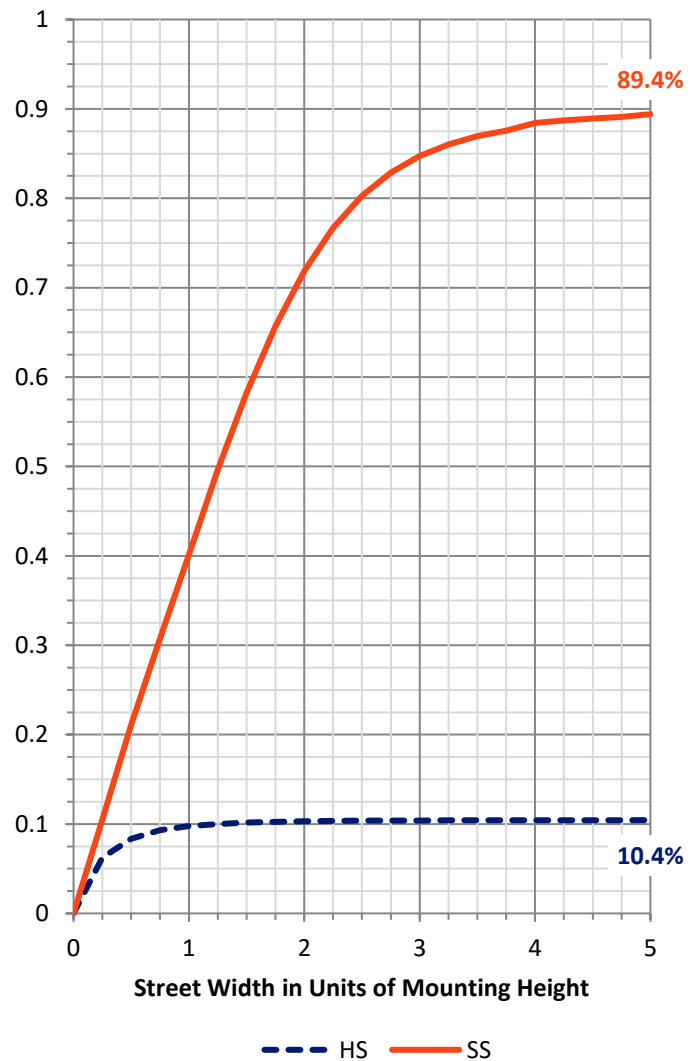
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1833.9	0.0	1833.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15620.1	0.0	15620.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	17454.0	0.0	17454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	1.0
10°-20°	526.5	3.0
20°-30°	864.6	5.0
30°-40°	1226.3	7.0
40°-50°	2026.9	11.6
50°-60°	3641.1	20.9
60°-70°	5055.9	29.0
70°-80°	3667.4	21.0
80°-90°	265.1	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°	17454.0	100.0
0°-180°	17454.0	100.0

Coefficient of Utilization



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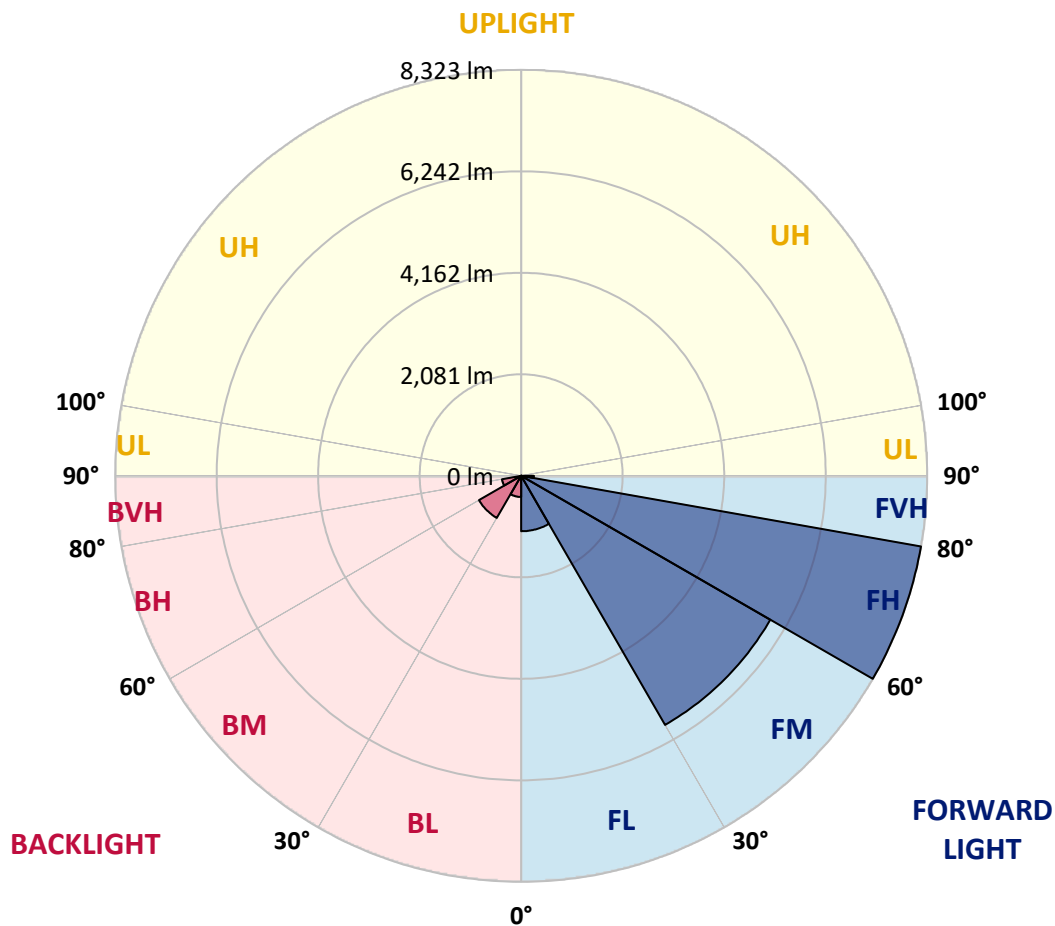
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1137.0	6.5			
FM	(30°-60°)	5896.9	33.8			
FH	(60°-80°)	8323.3	47.7			G4/12000
FVH	(80°-90°)	262.9	1.5			G3/500
BL	(0°-30°)	434.4	2.5	B1/500		
BM	(30°-60°)	997.4	5.7	B1/1000		
BH	(60°-80°)	399.9	2.3	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1
2.5°	2088.4	2092.0	2089.6	2075.3	2051.5	2038.4	2031.3	2007.4	1991.9	1964.5	1935.9
5°	2280.3	2294.5	2286.2	2257.6	2212.3	2180.2	2170.6	2121.8	2077.7	2026.5	1966.9
7.5°	2484.0	2491.1	2475.6	2438.7	2377.9	2323.1	2314.8	2246.9	2176.6	2098.0	2017.0
10°	2660.3	2668.6	2644.8	2591.2	2522.1	2454.2	2442.3	2367.2	2283.8	2187.3	2083.7
12.5°	2808.0	2816.4	2785.4	2721.1	2644.8	2574.5	2562.6	2484.0	2392.2	2285.0	2156.4
15°	2920.0	2935.5	2893.8	2824.7	2742.5	2672.2	2666.2	2588.8	2499.5	2380.3	2243.3
17.5°	2985.5	3001.0	2961.7	2878.3	2808.0	2748.5	2741.3	2677.0	2593.6	2479.2	2327.9
20°	2996.3	3010.6	2968.9	2896.2	2837.8	2790.2	2786.6	2740.1	2679.4	2569.8	2419.6
22.5°	2964.1	2982.0	2943.8	2885.5	2845.0	2819.9	2815.2	2789.0	2754.4	2661.5	2505.4
25°	2930.7	2945.0	2916.4	2865.2	2843.8	2841.4	2845.0	2840.2	2833.0	2754.4	2605.5
27.5°	2928.3	2943.8	2911.7	2862.8	2850.9	2875.9	2879.5	2902.1	2908.1	2839.0	2702.0
30°	2948.6	2959.3	2928.3	2877.1	2871.2	2928.3	2929.5	2970.0	2979.6	2910.5	2797.3
32.5°	2992.7	3004.6	2973.6	2898.6	2890.2	2970.0	2973.6	3027.2	3042.7	2986.7	2897.4
35°	3096.3	3110.6	3074.9	2958.1	2928.3	3009.4	3020.1	3083.2	3114.2	3067.7	3001.0
37.5°	3354.9	3313.2	3264.3	3078.5	3015.3	3071.3	3089.2	3163.0	3217.8	3164.2	3124.9
40°	3997.0	3865.9	3713.4	3283.4	3167.8	3203.6	3217.8	3291.7	3366.8	3314.3	3295.3
42.5°	4960.8	4805.9	4560.5	3755.1	3397.7	3415.6	3426.3	3490.7	3596.7	3555.0	3559.8
45°	5819.8	5763.8	5513.6	4560.5	3827.8	3739.7	3752.8	3786.1	3942.2	3926.7	3957.7
47.5°	6479.8	6447.6	6254.6	5485.0	4554.5	4136.4	4173.3	4188.8	4414.0	4468.8	4552.2
50°	6987.3	6975.4	6802.6	6307.0	5504.1	4721.3	4734.4	4701.1	5038.2	5174.0	5332.5
52.5°	7466.2	7506.7	7379.2	7070.7	6517.9	5487.4	5485.0	5327.7	5782.8	5987.7	6258.2
55°	7898.7	7913.0	7926.1	7849.8	7537.7	6359.4	6336.8	6079.5	6646.6	6858.6	7151.7
57.5°	8304.9	8310.9	8427.6	8583.7	8599.2	7295.9	7254.2	6945.6	7590.1	7741.4	7921.3
60°	8577.7	8605.1	8851.8	9285.4	9474.8	8262.0	8239.4	7924.9	8550.3	8620.6	8587.3
62.5°	8184.6	8351.4	8973.3	9833.4	10301.6	9333.1	9322.3	9026.9	9560.6	9503.4	9217.5
65°	6625.1	6907.5	8001.1	10203.9	11112.9	10529.2	10544.7	10230.2	10598.3	10412.4	9729.8
67.5°	4634.4	4932.2	6226.0	10233.7	12019.6	11933.8	12023.1	11529.9	11700.3	11283.3	9851.3
70°	3204.7	3358.4	4200.7	9592.8	12726.0	13868.5	13866.2	13126.3	12796.3	11680.0	9231.8
72.5°	2155.2	2235.0	2728.2	7610.4	12206.6	15018.2	14949.1	14346.3	13165.7	10923.5	7542.5
75°	909.0	967.4	1262.8	4277.0	9657.1	13739.9	13552.8	12678.4	11697.9	8601.6	4705.8
77.5°	288.3	313.3	498.0	1530.9	5319.4	10327.8	10130.1	7917.7	7840.3	4315.1	1720.3
80°	137.0	159.6	280.0	614.7	2093.2	5617.2	5589.8	3591.9	3372.7	1165.1	345.5
82.5°	59.6	70.3	154.9	328.8	936.4	2003.9	2044.4	1222.3	1011.5	442.0	106.0
85°	19.1	25.0	71.5	151.3	395.5	498.0	492.0	290.7	407.4	240.7	36.9
87.5°	0.0	0.0	23.8	34.5	40.5	28.6	32.2	25.0	113.2	66.7	13.1
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°	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1
2.5°	1921.7	1902.6	1869.2	1838.3	1810.9	1783.5	1766.8	1743.0	1740.6	1740.6	1746.5
5°	1934.8	1903.8	1844.2	1781.1	1708.4	1639.3	1570.2	1503.5	1482.0	1466.6	1473.7
7.5°	1972.9	1924.0	1829.9	1709.6	1571.4	1420.1	1314.1	1199.7	1155.6	1131.8	1135.4
10°	2027.7	1961.0	1818.0	1607.1	1383.2	1177.1	1025.8	901.9	854.2	833.9	833.9
12.5°	2088.4	2006.2	1796.6	1479.7	1177.1	930.4	782.7	725.5	718.4	718.4	718.4
15°	2161.1	2061.0	1759.6	1329.6	961.4	736.3	683.8	686.2	693.4	698.1	698.1
17.5°	2236.2	2119.4	1701.3	1161.6	770.8	662.4	663.6	667.2	673.1	677.9	677.9
20°	2317.2	2177.8	1623.8	982.9	661.2	640.9	644.5	648.1	652.9	655.2	656.4
22.5°	2404.2	2232.6	1532.1	807.7	624.3	623.1	624.3	627.8	633.8	633.8	636.2
25°	2497.1	2293.4	1427.2	680.3	605.2	605.2	607.6	610.0	614.7	614.7	615.9
27.5°	2592.4	2349.3	1316.4	613.5	588.5	587.3	587.3	590.9	593.3	594.5	595.7
30°	2697.2	2414.9	1205.7	599.3	575.4	569.5	565.9	568.3	570.7	571.8	574.2
32.5°	2804.4	2478.0	1106.8	605.2	562.3	551.6	539.7	537.3	537.3	542.1	545.6
35°	2923.6	2547.1	1030.5	625.5	555.2	525.4	506.3	495.6	496.8	503.9	507.5
37.5°	3066.5	2630.5	974.5	643.3	550.4	495.6	464.6	451.5	443.2	451.5	449.1
40°	3253.6	2753.2	934.0	657.6	544.4	461.1	419.4	397.9	382.4	387.2	384.8
42.5°	3528.8	2946.2	918.5	658.8	531.3	420.5	372.9	344.3	321.7	322.9	318.1
45°	3914.8	3251.2	998.4	643.3	502.8	376.5	324.0	285.9	271.6	268.1	263.3
47.5°	4443.7	3695.6	1183.0	611.2	461.1	333.6	276.4	244.2	233.5	227.5	224.0
50°	5152.6	4266.2	1387.9	575.4	419.4	293.1	237.1	216.8	209.7	203.7	202.5
52.5°	5974.6	4845.2	1555.9	539.7	377.7	257.3	212.1	200.1	194.2	189.4	188.2
55°	6728.8	5244.3	1546.4	501.6	337.2	228.7	194.2	187.0	179.9	175.1	172.7
57.5°	7198.2	5300.3	1274.7	459.9	290.7	206.1	177.5	172.7	164.4	158.5	157.3
60°	7413.8	4981.1	893.5	405.1	244.2	184.7	159.6	157.3	146.5	138.2	135.8
62.5°	7453.1	4387.8	595.7	337.2	203.7	164.4	141.8	138.2	123.9	109.6	102.5
65°	7293.5	3539.5	412.2	263.3	173.9	143.0	121.5	114.4	98.9	84.6	79.8
67.5°	6788.3	2485.2	287.1	189.4	147.7	113.2	96.5	94.1	82.2	70.3	66.7
70°	5862.7	1416.5	191.8	141.8	116.8	77.4	76.2	78.6	66.7	57.2	52.4
72.5°	4495.0	648.1	119.1	103.6	79.8	52.4	60.8	62.0	51.2	42.9	38.1
75°	2646.0	277.6	75.1	66.7	40.5	34.5	44.1	45.3	34.5	27.4	23.8
77.5°	900.7	104.8	47.7	39.3	20.3	19.1	28.6	28.6	19.1	10.7	8.3
80°	204.9	39.3	23.8	15.5	9.5	8.3	9.5	8.3	4.8	1.2	0.0
82.5°	58.4	15.5	9.5	6.0	3.6	3.6	1.2	0.0	0.0	0.0	0.0
85°	16.7	7.1	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	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)