

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: P950939

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950939
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-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 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: 20323 lumens
Efficiency: N/A
Efficacy: 111.2 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

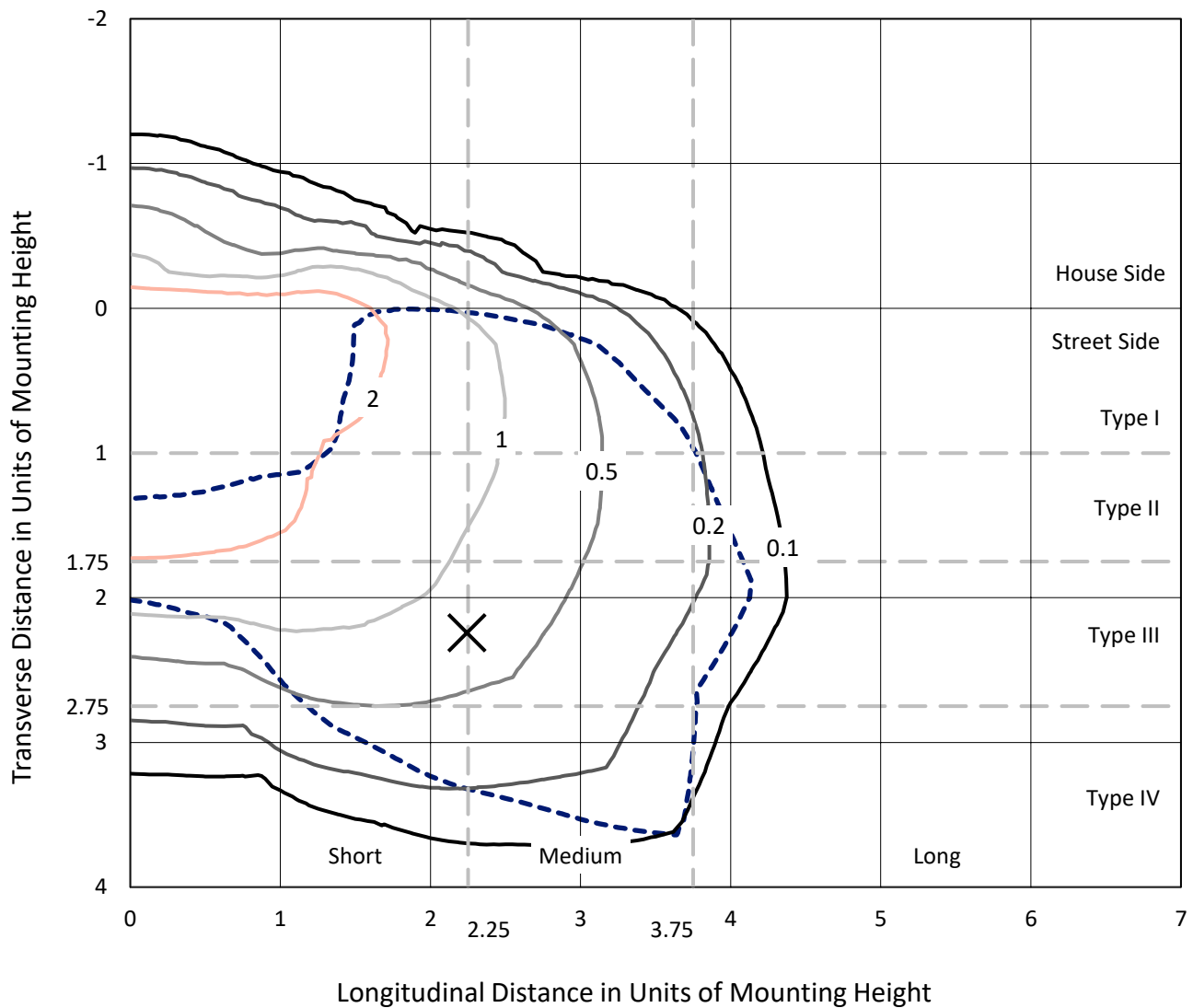


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

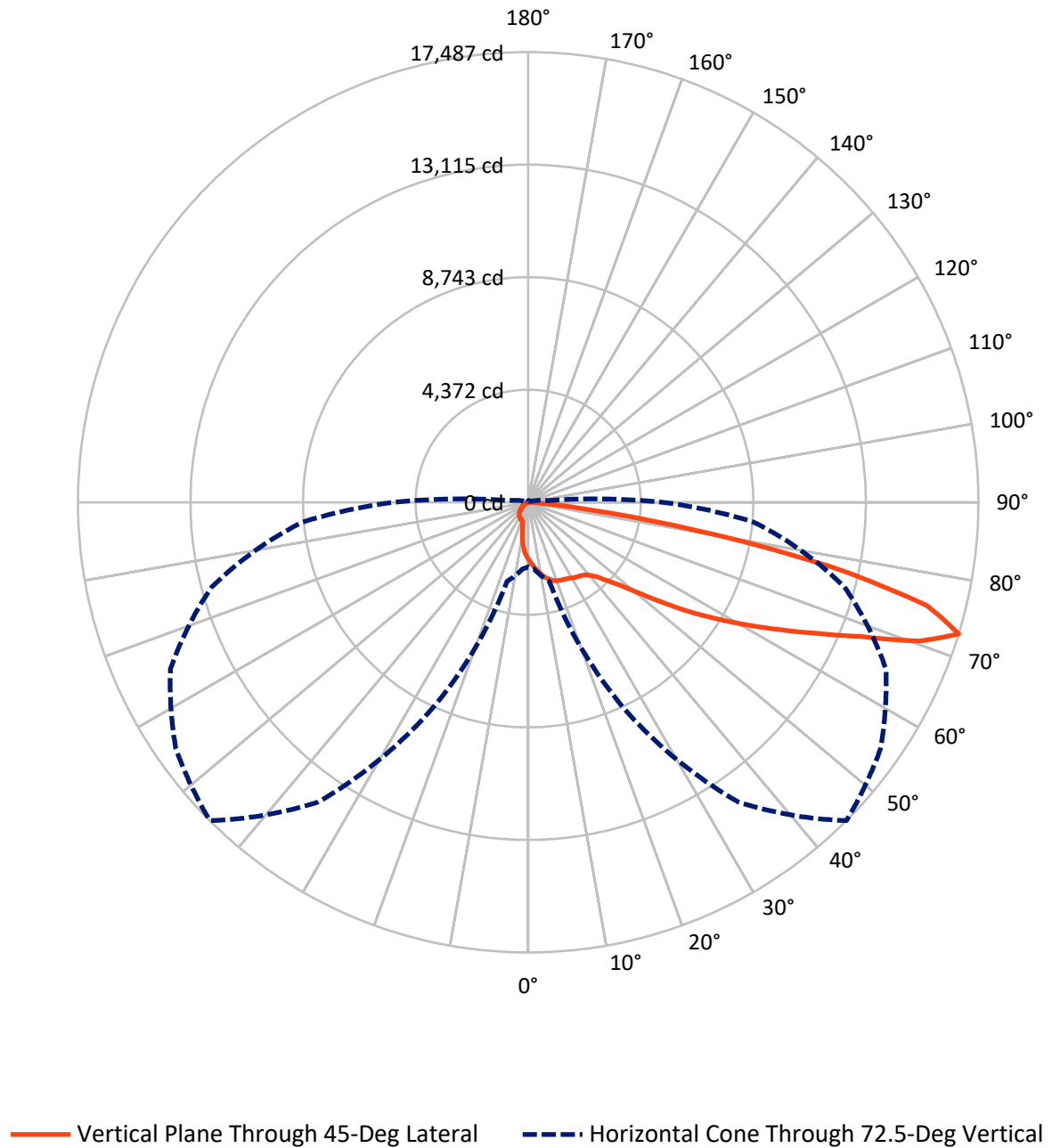


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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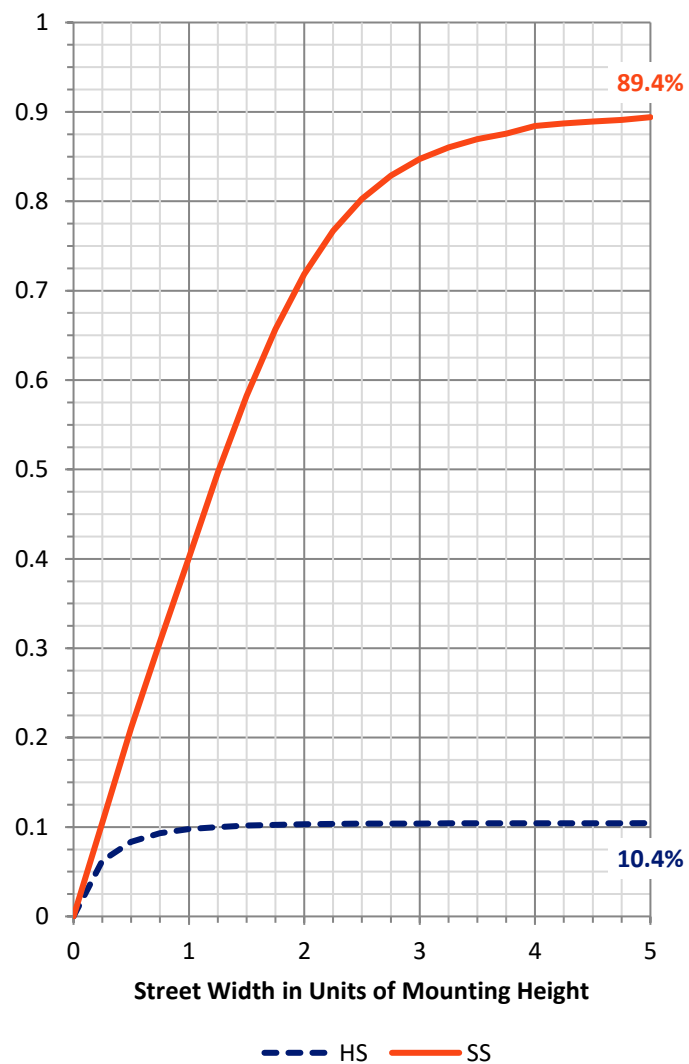
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2135.4	0.0	2135.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18187.6	0.0	18187.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	20323.0	0.0	20323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	1.0
10°-20°	613.1	3.0
20°-30°	1006.8	5.0
30°-40°	1427.8	7.0
40°-50°	2360.1	11.6
50°-60°	4239.6	20.9
60°-70°	5886.9	29.0
70°-80°	4270.2	21.0
80°-90°	308.7	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°	20323.0	100.0
0°-180°	20323.0	100.0

Coefficient of Utilization



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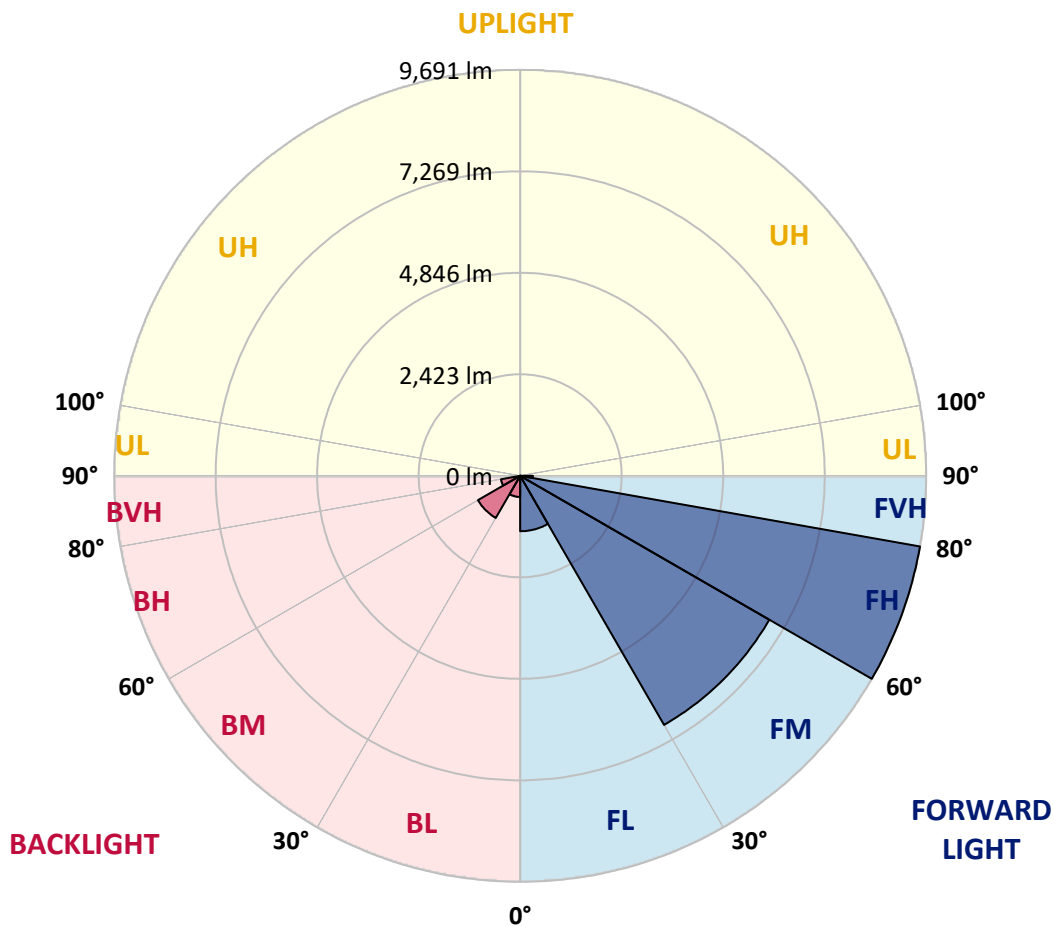
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1323.8	6.5			
FM	(30°-60°)	6866.2	33.8			
FH	(60°-80°)	9691.5	47.7			G4/12000
FVH	(80°-90°)	306.1	1.5			G3/500
BL	(0°-30°)	505.8	2.5	B2/1000		
BM	(30°-60°)	1161.3	5.7	B2/2500		
BH	(60°-80°)	465.7	2.3	B1/500		G1/500
BVH	(80°-90°)	2.6	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°	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4
2.5°	2431.7	2435.9	2433.1	2416.5	2388.7	2373.5	2365.1	2337.4	2319.4	2287.5	2254.2
5°	2655.1	2671.7	2662.0	2628.7	2576.0	2538.5	2527.4	2470.6	2419.2	2359.6	2290.2
7.5°	2892.3	2900.6	2882.6	2839.6	2768.8	2705.0	2695.3	2616.2	2534.4	2442.8	2348.5
10°	3097.6	3107.3	3079.5	3017.1	2936.7	2857.6	2843.7	2756.3	2659.2	2546.9	2426.2
12.5°	3269.6	3279.3	3243.2	3168.3	3079.5	2997.7	2983.8	2892.3	2785.5	2660.6	2510.8
15°	3400.0	3418.0	3369.5	3289.0	3193.3	3111.5	3104.5	3014.3	2910.3	2771.6	2612.1
17.5°	3476.3	3494.3	3448.5	3351.4	3269.6	3200.2	3191.9	3117.0	3019.9	2886.7	2710.6
20°	3488.8	3505.4	3456.9	3372.2	3304.3	3248.8	3244.6	3190.5	3119.8	2992.2	2817.4
22.5°	3451.3	3472.1	3427.7	3359.8	3312.6	3283.5	3277.9	3247.4	3207.2	3099.0	2917.2
25°	3412.5	3429.1	3395.8	3336.2	3311.2	3308.4	3312.6	3307.0	3298.7	3207.2	3033.8
27.5°	3409.7	3427.7	3390.3	3333.4	3319.5	3348.7	3352.8	3379.2	3386.1	3305.7	3146.1
30°	3433.3	3445.8	3409.7	3350.0	3343.1	3409.7	3411.1	3458.2	3469.3	3388.9	3257.1
32.5°	3484.6	3498.5	3462.4	3375.0	3365.3	3458.2	3462.4	3524.8	3542.9	3477.7	3373.6
35°	3605.3	3621.9	3580.3	3444.4	3409.7	3504.0	3516.5	3590.0	3626.1	3572.0	3494.3
37.5°	3906.3	3857.8	3800.9	3584.5	3511.0	3576.2	3597.0	3683.0	3746.8	3684.4	3638.6
40°	4654.0	4501.4	4323.8	3823.1	3688.5	3730.1	3746.8	3832.8	3920.2	3859.1	3836.9
42.5°	5776.2	5595.9	5310.1	4372.4	3956.2	3977.1	3989.5	4064.4	4187.9	4139.4	4144.9
45°	6776.4	6711.2	6419.9	5310.1	4457.0	4354.4	4369.6	4408.5	4590.2	4572.2	4608.2
47.5°	7544.9	7507.4	7282.7	6386.6	5303.2	4816.3	4859.3	4877.3	5139.5	5203.3	5300.4
50°	8135.8	8122.0	7920.8	7343.7	6408.8	5497.4	5512.7	5473.8	5866.4	6024.5	6209.0
52.5°	8693.5	8740.6	8592.2	8232.9	7589.3	6389.4	6386.6	6203.5	6733.4	6972.0	7286.9
55°	9197.0	9213.7	9228.9	9140.1	8776.7	7404.8	7378.4	7078.8	7739.1	7986.0	8327.3
57.5°	9670.0	9677.0	9812.9	9994.6	10012.7	8495.1	8446.6	8087.3	8837.7	9013.9	9223.4
60°	9987.7	10019.6	10306.8	10811.7	11032.3	9620.1	9593.8	9227.5	9955.8	10037.7	9998.8
62.5°	9529.9	9724.1	10448.3	11449.8	11995.0	10867.2	10854.7	10510.7	11132.1	11065.6	10732.6
65°	7714.1	8042.9	9316.3	11881.2	12939.6	12259.9	12278.0	11911.7	12340.4	12124.0	11329.1
67.5°	5396.1	5742.9	7249.4	11915.9	13995.3	13895.4	13999.4	13425.2	13623.5	13138.0	11470.6
70°	3731.5	3910.5	4891.2	11169.6	14817.9	16148.2	16145.4	15284.0	14899.7	13599.9	10749.3
72.5°	2509.4	2602.4	3176.6	8861.3	14213.1	17486.8	17406.4	16704.5	15329.8	12719.1	8782.3
75°	1058.4	1126.4	1470.4	4980.0	11244.5	15998.4	15780.6	14762.4	13620.7	10015.5	5479.4
77.5°	335.7	364.8	579.8	1782.5	6193.8	12025.5	11795.2	9219.2	9129.0	5024.4	2003.1
80°	159.5	185.9	326.0	715.8	2437.3	6540.6	6508.7	4182.4	3927.1	1356.7	402.3
82.5°	69.4	81.8	180.3	382.9	1090.3	2333.2	2380.4	1423.2	1177.7	514.6	123.5
85°	22.2	29.1	83.2	176.2	460.5	579.8	572.9	338.5	474.4	280.2	43.0
87.5°	0.0	0.0	27.7	40.2	47.2	33.3	37.5	29.1	131.8	77.7	15.3
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°	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4
2.5°	2237.5	2215.3	2176.5	2140.4	2108.5	2076.6	2057.2	2029.4	2026.7	2026.7	2033.6
5°	2252.8	2216.7	2147.4	2073.8	1989.2	1908.8	1828.3	1750.6	1725.7	1707.6	1715.9
7.5°	2297.2	2240.3	2130.7	1990.6	1829.7	1653.5	1530.1	1396.9	1345.6	1317.8	1322.0
10°	2361.0	2283.3	2116.8	1871.3	1610.5	1370.5	1194.4	1050.1	994.6	971.0	971.0
12.5°	2431.7	2336.0	2091.9	1722.9	1370.5	1083.4	911.4	844.8	836.5	836.5	836.5
15°	2516.3	2399.8	2048.9	1548.1	1119.5	857.3	796.2	799.0	807.3	812.9	812.9
17.5°	2603.7	2467.8	1980.9	1352.5	897.5	771.3	772.7	776.8	783.8	789.3	789.3
20°	2698.1	2535.8	1890.7	1144.4	769.9	746.3	750.5	754.6	760.2	763.0	764.3
22.5°	2799.3	2599.6	1783.9	940.5	726.9	725.5	726.9	731.0	738.0	738.0	740.8
25°	2907.5	2670.3	1661.8	792.1	704.7	704.7	707.5	710.2	715.8	715.8	717.2
27.5°	3018.5	2735.5	1532.8	714.4	685.3	683.9	683.9	688.0	690.8	692.2	693.6
30°	3140.6	2811.8	1403.8	697.8	670.0	663.1	658.9	661.7	664.5	665.8	668.6
32.5°	3265.4	2885.3	1288.7	704.7	654.8	642.3	628.4	625.6	625.6	631.2	635.3
35°	3404.1	2965.8	1199.9	728.3	646.4	611.7	589.6	577.1	578.5	586.8	590.9
37.5°	3570.6	3062.9	1134.7	749.1	640.9	577.1	541.0	525.7	516.0	525.7	523.0
40°	3788.4	3205.8	1087.6	765.7	633.9	536.8	488.3	463.3	445.3	450.8	448.1
42.5°	4108.8	3430.5	1069.5	767.1	618.7	489.7	434.2	400.9	374.5	375.9	370.4
45°	4558.3	3785.6	1162.5	749.1	585.4	438.3	377.3	332.9	316.3	312.1	306.6
47.5°	5174.2	4303.0	1377.5	711.6	536.8	388.4	321.8	284.4	271.9	265.0	260.8
50°	5999.6	4967.5	1616.1	670.0	488.3	341.2	276.0	252.5	244.1	237.2	235.8
52.5°	6956.7	5641.7	1811.7	628.4	439.7	299.6	246.9	233.0	226.1	220.6	219.2
55°	7834.8	6106.4	1800.6	584.0	392.6	266.3	226.1	217.8	209.5	203.9	201.1
57.5°	8381.4	6171.6	1484.3	535.5	338.5	240.0	206.7	201.1	191.4	184.5	183.1
60°	8632.4	5799.8	1040.4	471.6	284.4	215.0	185.9	183.1	170.6	160.9	158.1
62.5°	8678.2	5109.0	693.6	392.6	237.2	191.4	165.1	160.9	144.3	127.6	119.3
65°	8492.3	4121.3	480.0	306.6	202.5	166.5	141.5	133.2	115.1	98.5	92.9
67.5°	7904.2	2893.7	334.3	220.6	172.0	131.8	112.4	109.6	95.7	81.8	77.7
70°	6826.3	1649.4	223.3	165.1	135.9	90.2	88.8	91.6	77.7	66.6	61.0
72.5°	5233.8	754.6	138.7	120.7	92.9	61.0	70.7	72.1	59.6	49.9	44.4
75°	3080.9	323.2	87.4	77.7	47.2	40.2	51.3	52.7	40.2	31.9	27.7
77.5°	1048.7	122.1	55.5	45.8	23.6	22.2	33.3	33.3	22.2	12.5	9.7
80°	238.6	45.8	27.7	18.0	11.1	9.7	11.1	9.7	5.5	1.4	0.0
82.5°	68.0	18.0	11.1	6.9	4.2	4.2	1.4	0.0	0.0	0.0	0.0
85°	19.4	8.3	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	1.4	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)