

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: STREETWORKS

Report Number: P949658

Luminaire Tested: **GLAN-SB4B-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949658
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: STREETWORKS
Catalog Number: GLAN-SB4B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 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: 15620 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

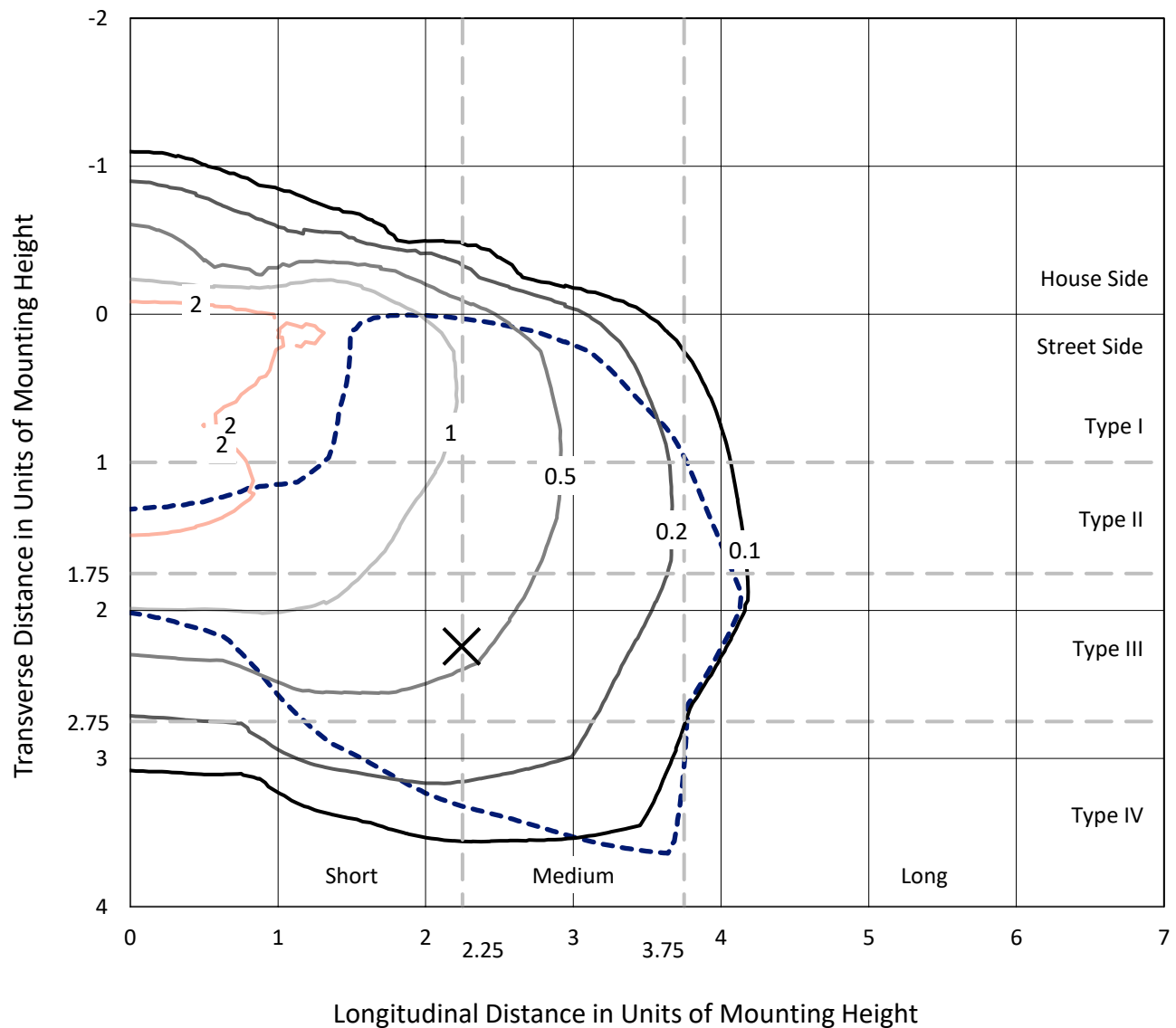
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

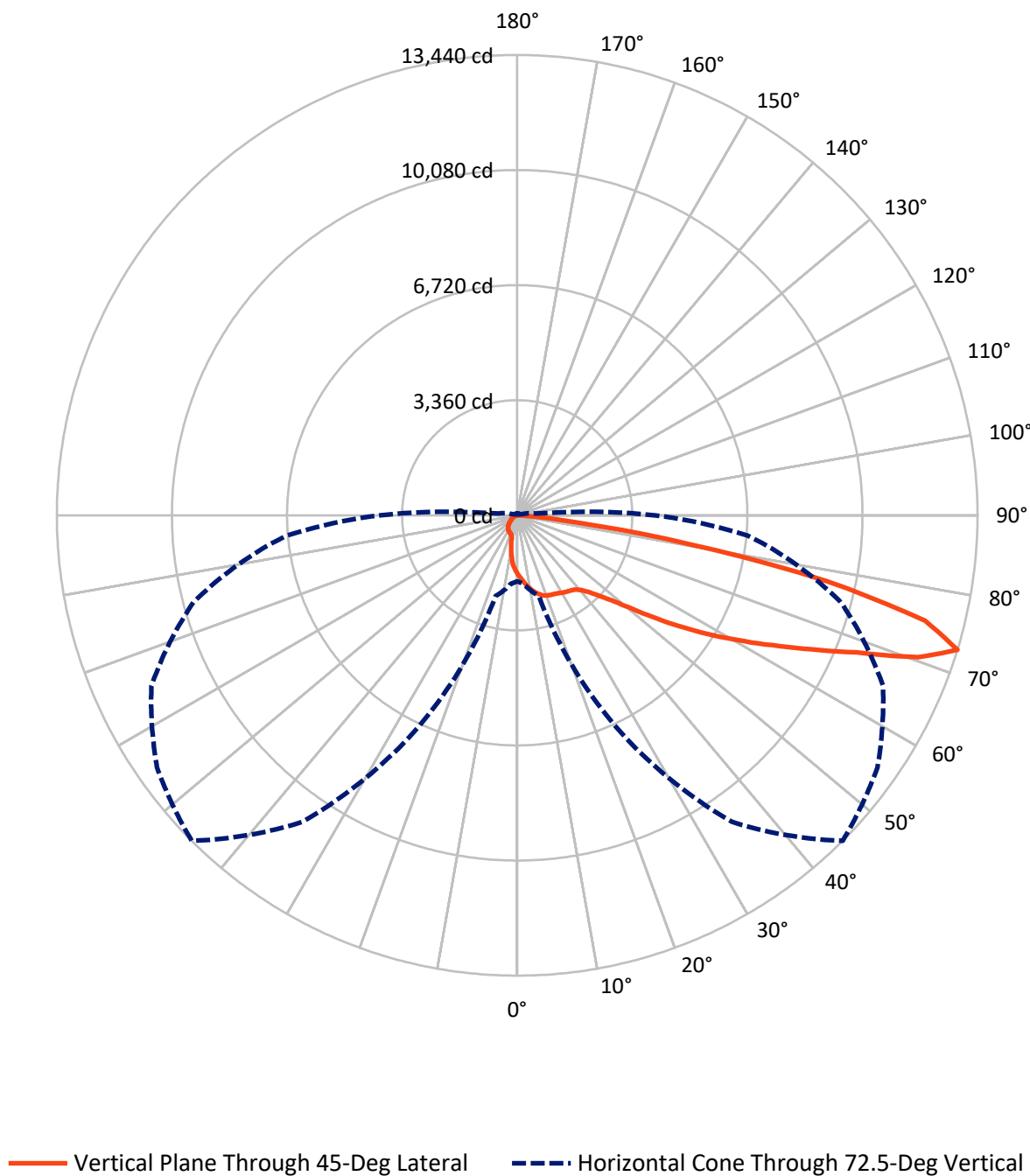
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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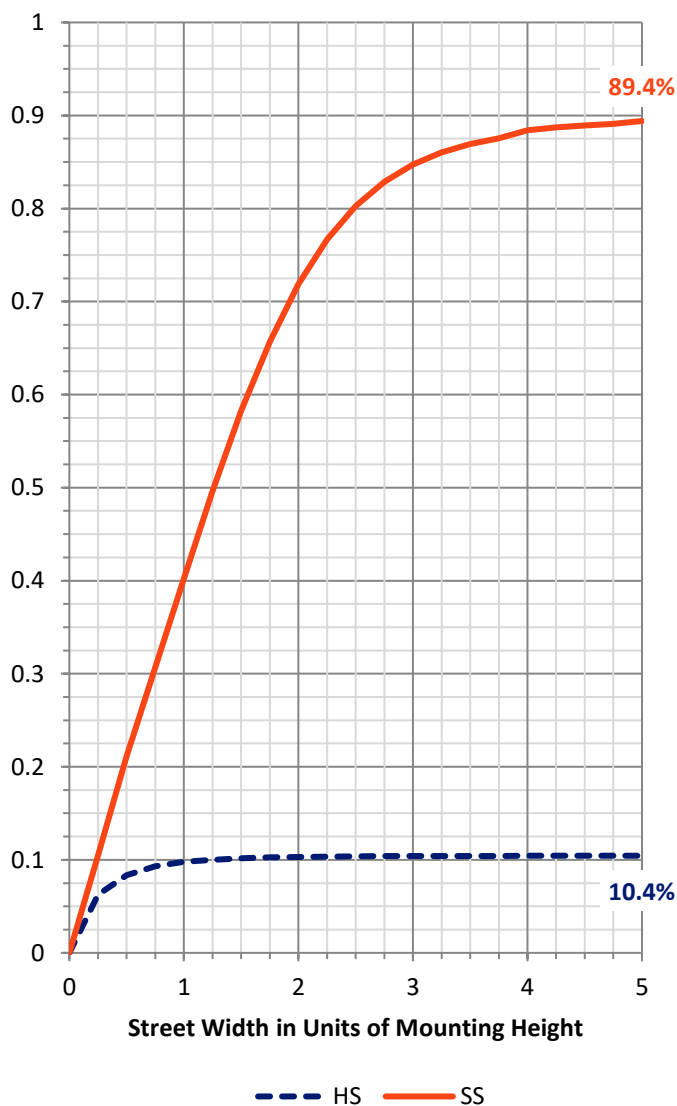
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1641.2	0.0	1641.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13978.8	0.0	13978.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	15620.0	0.0	15620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	1.0
10°-20°	471.2	3.0
20°-30°	773.8	5.0
30°-40°	1097.4	7.0
40°-50°	1813.9	11.6
50°-60°	3258.5	20.9
60°-70°	4524.6	29.0
70°-80°	3282.0	21.0
80°-90°	237.3	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°	15620.0	100.0
0°-180°	15620.0	100.0

Coefficient of Utilization



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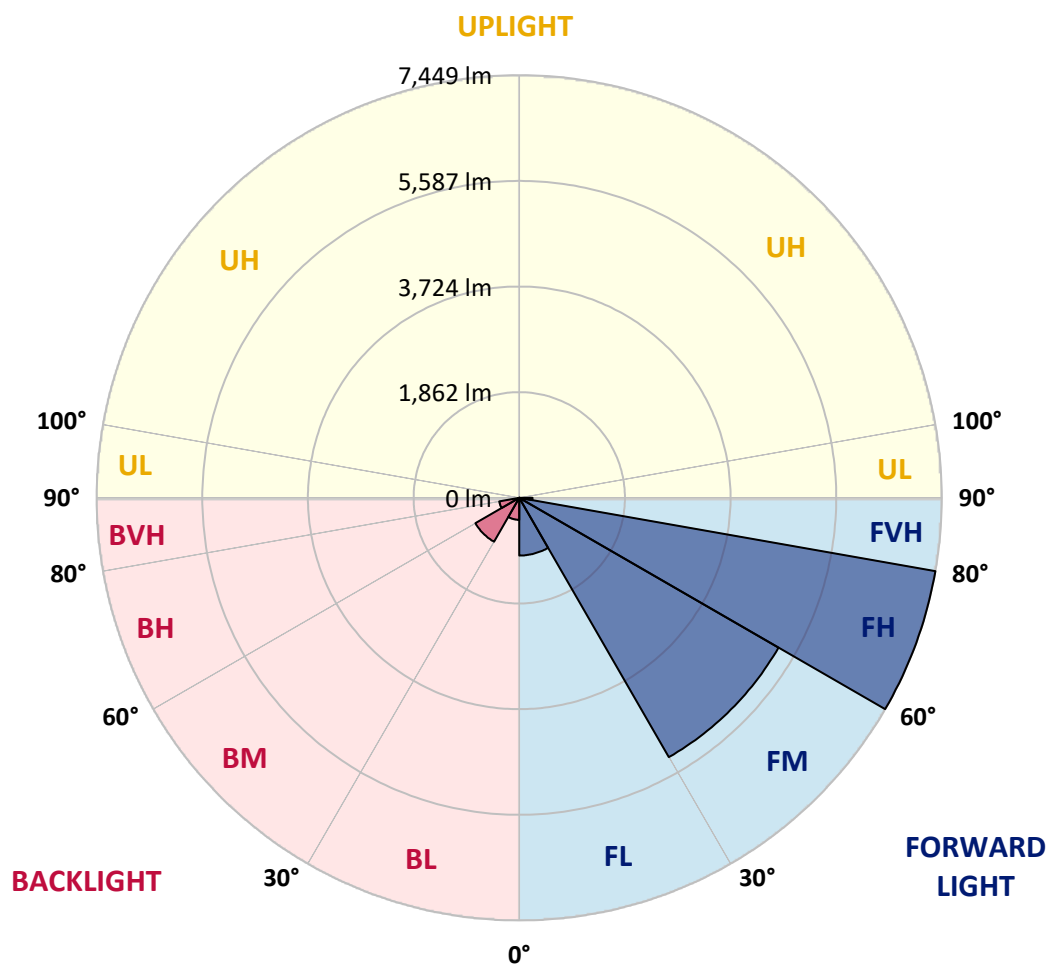
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1017.5	6.5			
FM	(30°-60°)	5277.3	33.8			
FH	(60°-80°)	7448.7	47.7			G3/7500
FVH	(80°-90°)	235.3	1.5			G3/500
BL	(0°-30°)	388.7	2.5	B1/500		
BM	(30°-60°)	892.6	5.7	B1/1000		
BH	(60°-80°)	357.9	2.3	B1/500		G1/500
BVH	(80°-90°)	2.0	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1711.2	1711.2	1711.2	1711.2	1711.2	1711.2	1711.2	1711.2	1711.2	1711.2
2.5°	1869.0	1872.2	1870.1	1857.3	1835.9	1824.2	1817.8	1796.5	1782.6	1758.1
5°	2040.7	2053.4	2046.0	2020.4	1979.9	1951.1	1942.6	1898.9	1859.4	1813.6
7.5°	2223.0	2229.4	2215.5	2182.5	2128.1	2079.0	2071.6	2010.8	1947.9	1877.5
10°	2380.8	2388.2	2366.9	2318.9	2257.1	2196.3	2185.7	2118.5	2043.8	1957.5
12.5°	2513.0	2520.4	2492.7	2435.1	2366.9	2304.0	2293.3	2223.0	2140.9	2044.9
15°	2613.2	2627.0	2589.7	2527.9	2454.3	2391.4	2386.1	2316.8	2236.8	2130.2
17.5°	2671.8	2685.7	2650.5	2575.9	2513.0	2459.7	2453.3	2395.7	2321.1	2218.7
20°	2681.4	2694.2	2656.9	2591.9	2539.6	2497.0	2493.8	2452.2	2397.8	2299.7
22.5°	2652.6	2668.6	2634.5	2582.3	2546.0	2523.6	2519.4	2495.9	2465.0	2381.8
25°	2622.8	2635.6	2610.0	2564.1	2544.9	2542.8	2546.0	2541.8	2535.4	2465.0
27.5°	2620.6	2634.5	2605.7	2562.0	2551.3	2573.7	2576.9	2597.2	2602.5	2540.7
30°	2638.8	2648.4	2620.6	2574.8	2569.5	2620.6	2621.7	2658.0	2666.5	2604.7
32.5°	2678.2	2688.9	2661.2	2594.0	2586.5	2658.0	2661.2	2709.1	2723.0	2672.9
35°	2771.0	2783.8	2751.8	2647.3	2620.6	2693.1	2702.7	2759.3	2787.0	2745.4
37.5°	3002.3	2965.0	2921.3	2755.0	2698.5	2748.6	2764.6	2830.7	2879.7	2831.7
40°	3577.0	3459.7	3323.3	2938.4	2834.9	2866.9	2879.7	2945.8	3013.0	2966.1
42.5°	4439.5	4300.9	4081.3	3360.6	3040.7	3056.7	3066.3	3123.9	3218.8	3181.5
45°	5208.2	5158.1	4934.2	4081.3	3425.6	3346.7	3358.4	3388.3	3528.0	3514.1
47.5°	5798.9	5770.1	5597.4	4908.7	4076.0	3701.7	3734.8	3748.7	3950.2	3999.2
50°	6253.1	6242.4	6087.8	5644.3	4925.7	4225.2	4237.0	4207.1	4508.8	4630.4
52.5°	6681.7	6717.9	6603.9	6327.7	5833.0	4910.8	4908.7	4767.9	5175.2	5358.6
55°	7068.7	7081.5	7093.2	7025.0	6745.7	5691.2	5671.0	5440.7	5948.2	6137.9
57.5°	7432.3	7437.6	7542.1	7681.8	7695.6	6529.2	6491.9	6215.8	6792.6	6928.0
60°	7676.4	7701.0	7921.6	8309.7	8479.3	7393.9	7373.6	7092.2	7651.9	7714.8
62.5°	7324.6	7473.9	8030.4	8800.2	9219.2	8352.4	8342.8	8078.4	8556.0	8504.8
65°	5929.0	6181.7	7160.4	9131.8	9945.2	9422.8	9436.7	9155.2	9484.7	9318.3
67.5°	4147.4	4413.9	5571.8	9158.4	10756.6	10679.8	10759.8	10318.4	10470.9	10097.7
70°	2868.0	3005.5	3759.3	8584.8	11388.8	12411.3	12409.2	11747.1	11451.7	10452.7
72.5°	1928.7	2000.1	2441.5	6810.7	10924.0	13440.1	13378.3	12838.8	11782.3	9775.7
75°	813.5	865.7	1130.1	3827.6	8642.4	12296.1	12128.8	11346.2	10468.7	7697.8
77.5°	258.0	280.4	445.7	1370.0	4760.5	9242.6	9065.7	7085.8	7016.5	3861.7
80°	122.6	142.9	250.6	550.1	1873.3	5027.0	5002.5	3214.5	3018.3	1042.7
82.5°	53.3	62.9	138.6	294.3	838.0	1793.3	1829.5	1093.9	905.2	395.5
85°	17.1	22.4	64.0	135.4	354.0	445.7	440.3	260.1	364.6	215.4
87.5°	0.0	0.0	21.3	30.9	36.2	25.6	28.8	22.4	101.3	59.7
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1711.2	0°	1711.2	1711.2	1711.2	1711.2	1711.2	1711.2	1711.2	1711.2	1711.2	1711.2
1732.5	2.5°	1719.7	1702.7	1672.8	1645.1	1620.6	1596.1	1581.1	1559.8	1557.7	1557.7
1760.2	5°	1731.5	1703.7	1650.4	1593.9	1528.9	1467.1	1405.2	1345.5	1326.3	1312.5
1805.0	7.5°	1765.6	1721.9	1637.6	1530.0	1406.3	1270.9	1176.0	1073.6	1034.2	1012.9
1864.7	10°	1814.6	1754.9	1627.0	1438.3	1237.8	1053.4	918.0	807.1	764.4	746.3
1929.8	12.5°	1869.0	1795.4	1607.8	1324.2	1053.4	832.7	700.5	649.3	642.9	642.9
2007.6	15°	1934.0	1844.5	1574.7	1189.8	860.4	658.9	612.0	614.1	620.5	624.8
2083.3	17.5°	2001.2	1896.7	1522.5	1039.5	689.8	592.8	593.9	597.1	602.4	606.7
2165.4	20°	2073.7	1949.0	1453.2	879.6	591.7	573.6	576.8	580.0	584.3	586.4
2242.2	22.5°	2151.5	1998.0	1371.1	722.9	558.7	557.6	558.7	561.9	567.2	567.2
2331.7	25°	2234.7	2052.4	1277.3	608.8	541.6	541.6	543.7	545.9	550.1	550.1
2418.1	27.5°	2320.0	2102.5	1178.1	549.1	526.7	525.6	525.6	528.8	531.0	532.0
2503.4	30°	2413.8	2161.1	1079.0	536.3	515.0	509.6	506.4	508.6	510.7	511.8
2592.9	32.5°	2509.8	2217.6	990.5	541.6	503.2	493.6	483.0	480.8	480.8	485.1
2685.7	35°	2616.4	2279.5	922.2	559.7	496.8	470.2	453.1	443.5	444.6	451.0
2796.6	37.5°	2744.3	2354.1	872.1	575.7	492.6	443.5	415.8	404.1	396.6	404.1
2949.0	40°	2911.7	2463.9	835.9	588.5	487.2	412.6	375.3	356.1	342.2	346.5
3185.7	42.5°	3158.0	2636.6	822.0	589.6	475.5	376.4	333.7	308.1	287.9	288.9
3541.8	45°	3503.4	2909.6	893.5	575.7	449.9	336.9	290.0	255.9	243.1	239.9
4073.8	47.5°	3976.8	3307.3	1058.7	546.9	412.6	298.5	247.4	218.6	209.0	203.6
4772.2	50°	4611.2	3818.0	1242.1	515.0	375.3	262.3	212.2	194.0	187.6	182.3
5600.6	52.5°	5346.8	4336.1	1392.4	483.0	338.0	230.3	189.8	179.1	173.8	169.5
6400.2	55°	6021.7	4693.3	1383.9	448.9	301.7	204.7	173.8	167.4	161.0	156.7
7089.0	57.5°	6441.8	4743.4	1140.8	411.5	260.1	184.4	158.9	154.6	147.1	141.8
7685.0	60°	6634.8	4457.7	799.6	362.5	218.6	165.3	142.9	140.7	131.1	123.7
8249.0	62.5°	6670.0	3926.7	533.1	301.7	182.3	147.1	126.9	123.7	110.9	98.1
8707.4	65°	6527.1	3167.6	368.9	235.6	155.7	127.9	108.7	102.4	88.5	75.7
8816.2	67.5°	6075.0	2224.0	256.9	169.5	132.2	101.3	86.4	84.2	73.6	62.9
8261.8	70°	5246.6	1267.7	171.7	126.9	104.5	69.3	68.2	70.4	59.7	51.2
6749.9	72.5°	4022.7	580.0	106.6	92.8	71.4	46.9	54.4	55.4	45.8	38.4
4211.4	75°	2368.0	248.4	67.2	59.7	36.2	30.9	39.4	40.5	30.9	24.5
1539.6	77.5°	806.0	93.8	42.6	35.2	18.1	17.1	25.6	25.6	17.1	9.6
309.2	80°	183.4	35.2	21.3	13.9	8.5	7.5	8.5	7.5	4.3	1.1
94.9	82.5°	52.2	13.9	8.5	5.3	3.2	3.2	1.1	0.0	0.0	0.0
33.1	85°	14.9	6.4	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
11.7	87.5°	6.4	1.1	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

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180°
1711.2
1563.0
1318.9
1016.1
746.3
642.9
624.8
606.7
587.5
569.3
551.2
533.1
513.9
488.3
454.2
401.9
344.4
284.7
235.6
200.4
181.2
168.5
154.6
140.7
121.5
91.7
71.4
59.7
46.9
34.1
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0.0
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