

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: P940939

Luminaire Tested: **GALN-SB4B-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20689 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

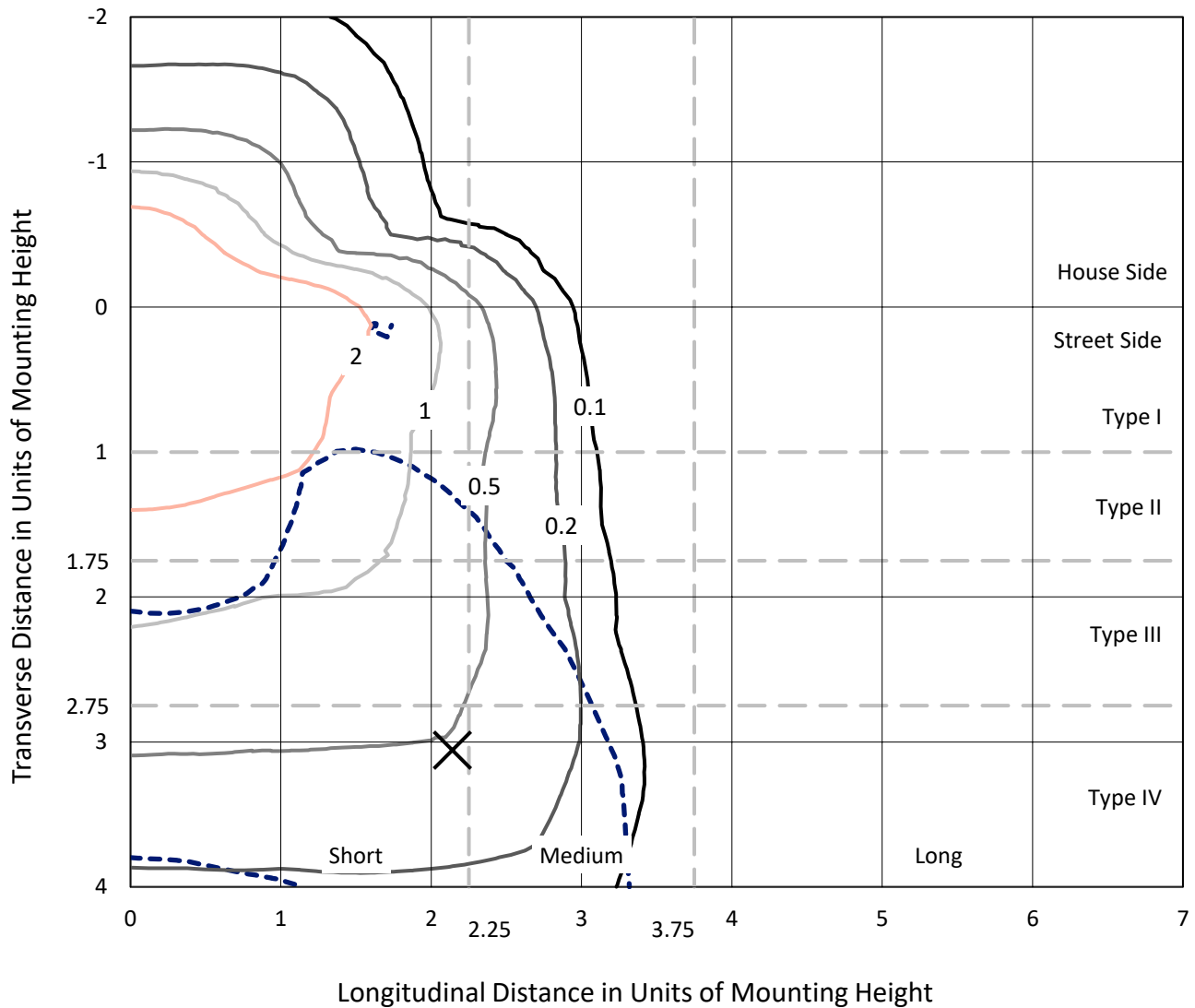


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Iso-Footcandle Lines of Horizontal Illumination

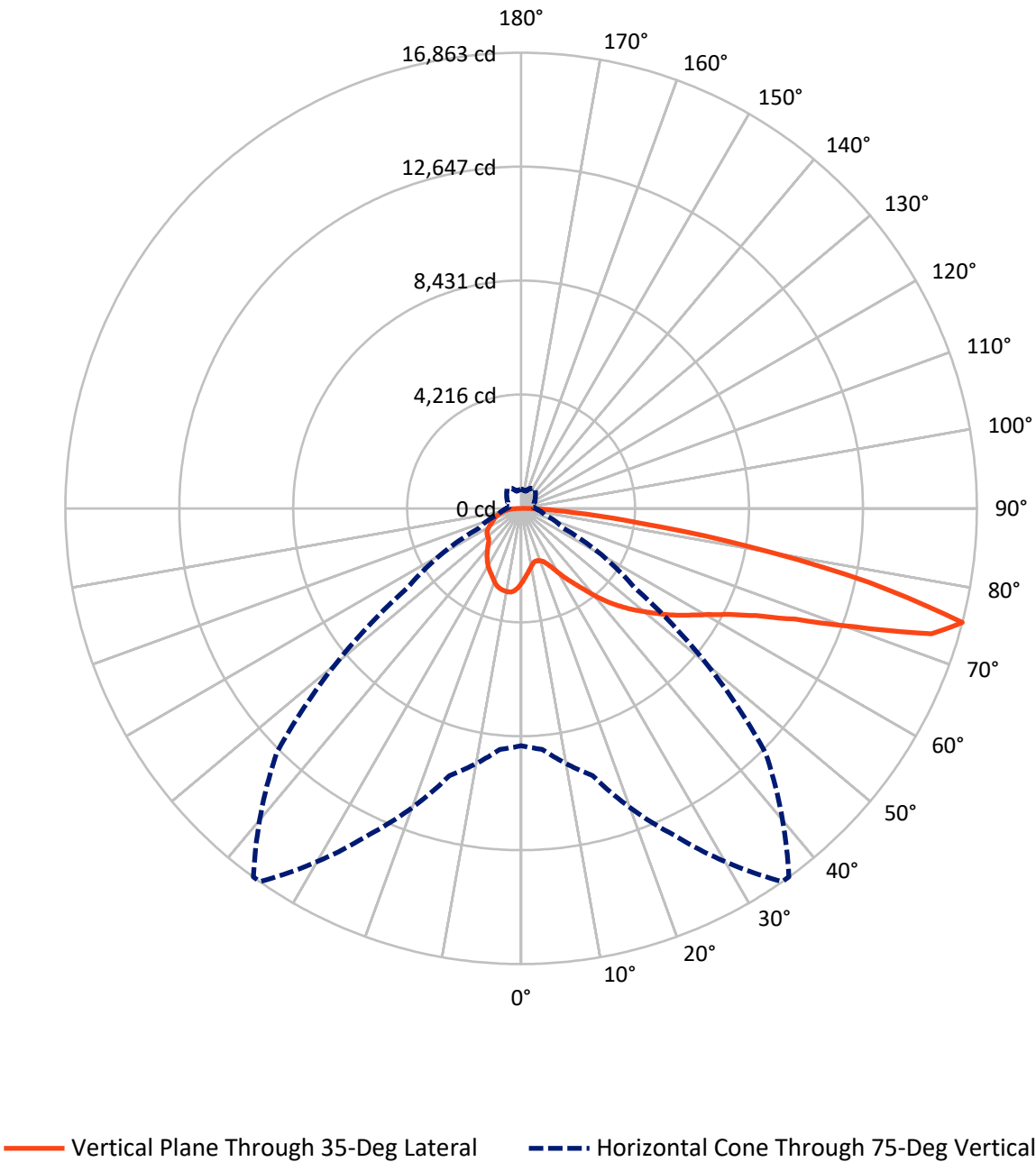
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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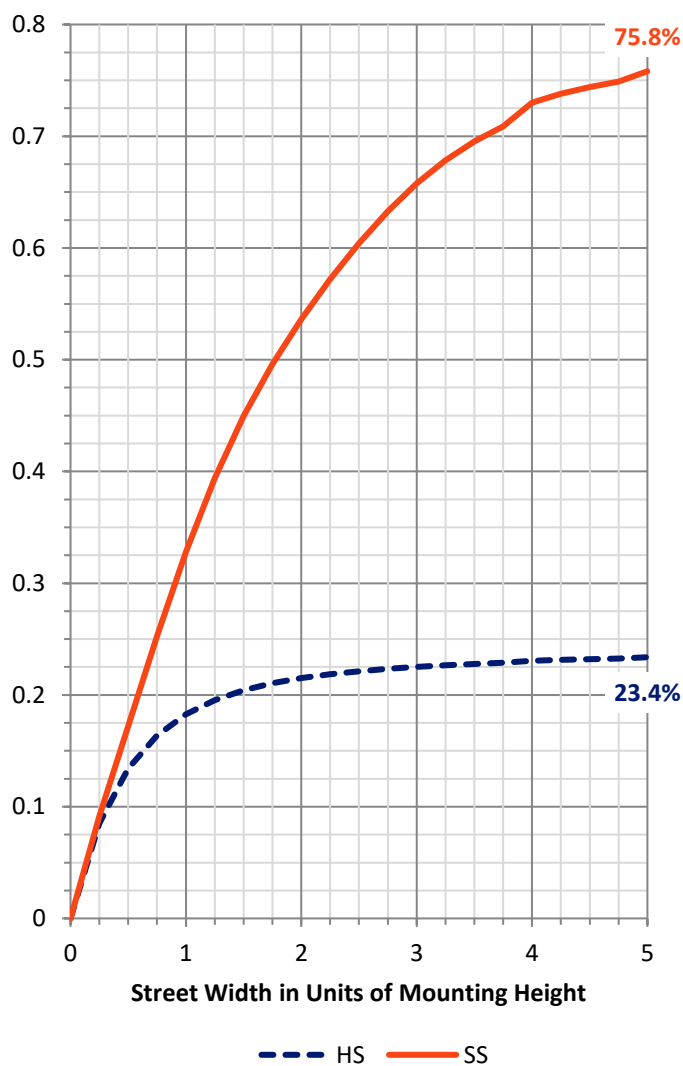
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4923.5	0.0	4923.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	15765.5	0.0	15765.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	20689.0	0.0	20689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.0	1.3
10°-20°	752.9	3.6
20°-30°	1264.3	6.1
30°-40°	1965.0	9.5
40°-50°	2916.5	14.1
50°-60°	4026.5	19.5
60°-70°	4885.0	23.6
70°-80°	4037.1	19.5
80°-90°	580.7	2.8
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°	20689.0	100.0
0°-180°	20689.0	100.0

Coefficient of Utilization



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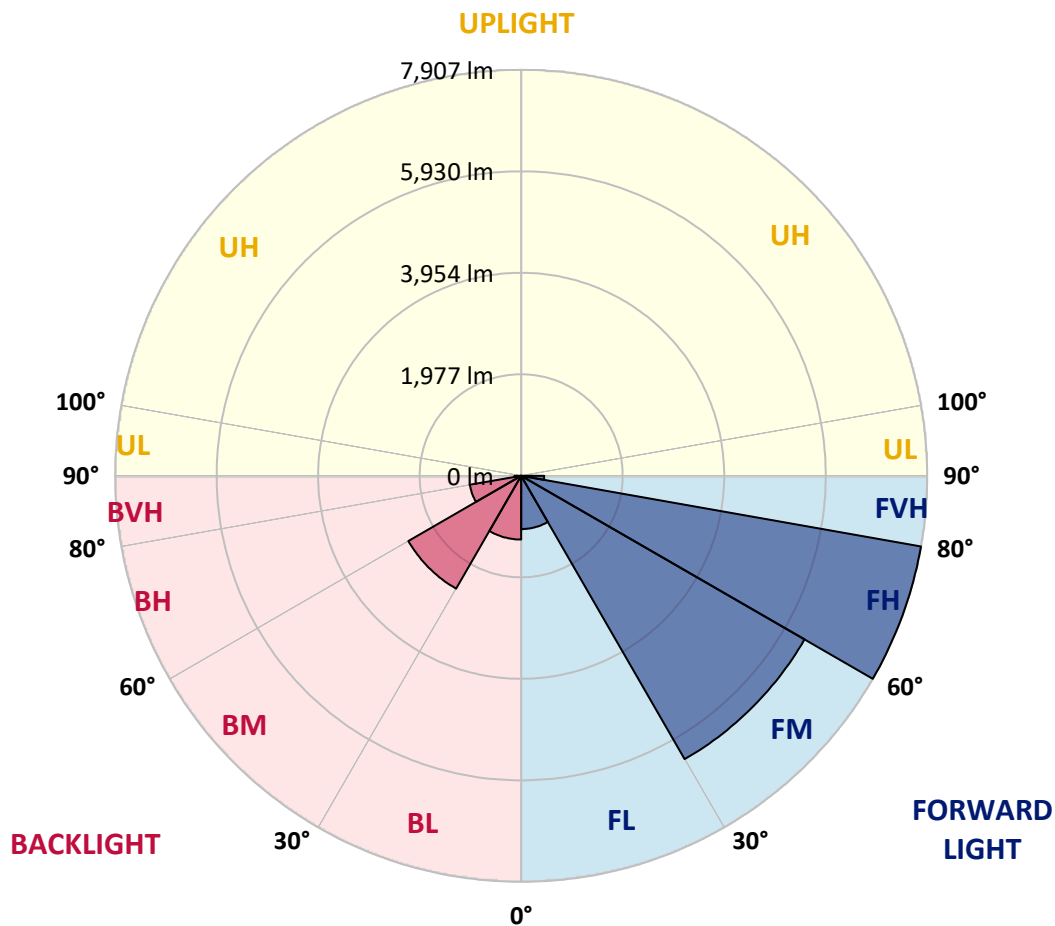
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1037.5	5.0			
FM	(30°-60°)	6371.1	30.8			
FH	(60°-80°)	7907.0	38.2			G4/12000
FVH	(80°-90°)	449.9	2.2			G3/500
BL	(0°-30°)	1240.8	6.0	B3/2500		
BM	(30°-60°)	2536.9	12.3	B3/5000		
BH	(60°-80°)	1015.1	4.9	B3/2500		G3/2500
BVH	(80°-90°)	130.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9
2.5°	2542.2	2557.9	2564.6	2561.2	2578.0	2575.8	2599.2	2628.3	2668.6	2707.7	2764.8
5°	2346.5	2363.3	2377.8	2391.2	2423.7	2433.7	2470.6	2526.6	2600.4	2675.3	2769.3
7.5°	2164.2	2178.7	2201.1	2225.7	2280.5	2290.6	2352.1	2439.3	2542.2	2651.8	2781.6
10°	2015.4	2030.0	2053.5	2081.4	2149.6	2161.9	2240.2	2356.5	2490.8	2629.4	2795.0
12.5°	1951.7	1956.1	1969.6	1997.5	2056.8	2064.6	2150.8	2283.9	2440.4	2612.7	2815.1
15°	1948.3	1957.3	1958.4	1972.9	2022.1	2025.5	2104.9	2236.9	2409.1	2609.3	2845.3
17.5°	1981.9	1988.6	1978.5	1987.5	2028.8	2034.4	2097.1	2214.5	2399.0	2623.9	2896.8
20°	2071.3	2076.9	2046.7	2034.4	2064.6	2069.1	2130.6	2229.0	2409.1	2654.1	2967.2
22.5°	2261.5	2264.8	2191.0	2140.7	2142.9	2145.2	2198.8	2288.3	2448.3	2708.9	3056.7
25°	2557.9	2555.6	2438.2	2340.9	2285.0	2272.7	2308.5	2384.5	2514.2	2781.6	3171.9
27.5°	2904.6	2887.8	2770.4	2625.0	2503.1	2485.2	2477.3	2509.8	2608.2	2877.7	3312.8
30°	3296.0	3280.4	3154.0	2963.9	2795.0	2765.9	2692.1	2675.3	2748.0	3008.6	3508.5
32.5°	3725.5	3715.5	3564.5	3334.1	3108.1	3074.6	2950.4	2905.7	2962.7	3206.6	3781.4
35°	4085.7	4076.7	3951.4	3714.3	3438.1	3396.7	3270.3	3220.0	3249.1	3460.4	4138.2
37.5°	4411.1	4406.6	4299.3	4112.5	3827.3	3777.0	3634.9	3618.1	3612.6	3794.9	4571.1
40°	4713.1	4701.9	4590.1	4491.6	4280.3	4234.4	4109.1	4094.6	4052.1	4206.4	5060.9
42.5°	5047.5	5018.4	4856.3	4810.4	4753.4	4715.3	4640.4	4642.6	4548.7	4670.6	5579.9
45°	5320.4	5303.6	5137.0	5110.1	5171.7	5156.0	5220.9	5237.6	5055.3	5157.1	6119.0
47.5°	5613.4	5597.8	5456.9	5437.8	5604.5	5609.0	5838.2	5843.8	5549.7	5662.7	6659.2
50°	5974.7	5952.3	5812.5	5836.0	6022.8	6039.6	6459.0	6421.0	6004.9	6176.0	7194.9
52.5°	6212.9	6226.3	6196.1	6234.2	6489.2	6504.8	7069.6	6972.3	6455.6	6682.7	7720.6
55°	6388.5	6415.4	6509.3	6596.5	6981.3	6996.9	7645.6	7496.9	6829.2	7152.4	8214.9
57.5°	6614.4	6576.4	6752.0	6922.0	7448.8	7490.2	8206.0	8002.4	7160.2	7557.3	8553.8
60°	6938.8	6911.9	7048.4	7300.0	7972.2	8038.2	8798.8	8457.6	7402.9	7878.3	8619.8
62.5°	7596.4	7529.3	7550.6	7773.1	8632.1	8719.3	9467.6	8854.7	7523.7	8003.5	8266.4
65°	8579.5	8464.3	8357.0	8511.3	9561.5	9647.6	10222.5	9166.7	7479.0	7760.8	7328.0
67.5°	9817.6	9703.6	9571.6	9717.0	10930.5	10998.7	11154.2	9342.3	7126.7	6825.8	5669.4
70°	10838.8	10796.3	10954.0	11552.3	13117.0	13119.3	12348.7	9196.9	6161.5	4839.5	3280.4
72.5°	10703.4	10677.7	11508.7	13358.6	15872.9	15813.6	13479.4	8096.4	4150.5	2183.2	1229.2
75°	8780.9	8947.5	10234.8	13326.2	16862.7	16854.9	12787.1	5147.1	1716.8	904.8	635.3
77.5°	4708.6	4972.6	6644.6	9838.9	13164.0	13362.0	8990.0	1800.7	737.1	579.4	439.5
80°	1535.6	1766.0	2648.5	5009.5	8553.8	8516.9	3853.0	706.9	504.4	410.5	304.2
82.5°	652.0	678.9	1183.3	2365.5	4389.9	4321.6	1226.9	406.0	354.5	280.7	187.9
85°	255.0	285.2	522.3	1093.8	1901.3	1860.0	442.9	201.3	227.0	183.4	111.8
87.5°	83.9	101.8	186.8	374.7	591.7	570.4	108.5	69.3	98.4	83.9	40.3
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°	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9
2.5°	2780.4	2798.3	2819.6	2850.9	2877.7	2900.1	2923.6	2938.1	2943.7	2960.5	2959.4
5°	2800.6	2839.7	2892.3	2943.7	2994.1	3024.3	3051.1	3064.5	3076.8	3085.8	3088.0
7.5°	2834.1	2884.5	2967.2	3034.3	3076.8	3101.4	3119.3	3114.8	3119.3	3121.6	3124.9
10°	2863.2	2933.7	3032.1	3095.8	3128.3	3129.4	3124.9	3109.3	3101.4	3102.5	3104.8
12.5°	2897.9	2976.2	3082.4	3136.1	3145.0	3120.4	3101.4	3074.6	3064.5	3060.0	3057.8
15°	2944.8	3034.3	3137.2	3157.3	3135.0	3103.7	3071.2	3027.6	3005.2	2987.3	2992.9
17.5°	3001.9	3100.3	3179.7	3165.2	3117.1	3065.6	3013.1	2947.1	2901.2	2882.2	2883.3
20°	3081.3	3169.7	3212.2	3148.4	3075.7	2997.4	2907.9	2827.4	2784.9	2765.9	2763.7
22.5°	3177.5	3262.5	3243.5	3119.3	3016.4	2891.2	2779.3	2720.0	2698.8	2685.4	2687.6
25°	3292.7	3365.4	3265.8	3076.8	2919.1	2750.2	2664.1	2645.1	2635.0	2625.0	2625.0
27.5°	3442.6	3481.7	3282.6	3014.2	2767.0	2600.4	2569.1	2572.4	2569.1	2552.3	2555.6
30°	3640.5	3632.7	3298.3	2912.4	2592.5	2465.0	2467.3	2481.8	2484.1	2472.9	2478.5
32.5°	3901.1	3821.7	3306.1	2780.4	2425.9	2346.5	2348.7	2364.4	2375.6	2356.5	2365.5
35°	4216.5	4042.0	3293.8	2614.9	2297.3	2233.5	2216.7	2221.2	2224.6	2206.7	2219.0
37.5°	4584.5	4289.2	3239.0	2431.5	2191.0	2122.8	2087.0	2056.8	2038.9	2022.1	2033.3
40°	4988.2	4558.8	3138.3	2252.5	2072.5	2005.4	1951.7	1894.6	1834.2	1811.9	1821.9
42.5°	5411.0	4836.1	3016.4	2081.4	1936.0	1881.2	1824.2	1741.4	1650.8	1605.0	1610.6
45°	5849.4	5120.2	2896.8	1912.5	1796.2	1772.7	1706.7	1607.2	1508.8	1450.6	1446.1
47.5°	6278.9	5388.6	2721.2	1742.5	1665.4	1691.1	1639.6	1547.9	1438.3	1346.6	1336.5
50°	6689.4	5640.3	2433.7	1570.3	1559.1	1666.5	1617.3	1485.3	1360.0	1242.6	1232.5
52.5°	7096.5	5843.8	2065.8	1413.7	1502.1	1659.8	1588.2	1442.8	1289.6	1166.5	1153.1
55°	7442.1	5949.0	1711.2	1279.5	1419.3	1602.7	1553.5	1392.5	1190.0	1059.2	1048.0
57.5°	7638.9	5864.0	1415.9	1147.5	1305.2	1508.8	1494.2	1285.1	1071.5	970.8	957.4
60°	7553.9	5519.5	1174.4	1032.3	1196.7	1407.0	1391.3	1178.8	980.9	885.8	872.4
62.5°	7085.3	4863.0	983.1	931.7	1098.3	1303.0	1288.4	1097.2	911.5	819.8	805.3
65°	6141.3	3955.9	834.4	847.8	998.8	1177.7	1199.0	1029.0	856.7	767.2	752.7
67.5°	4684.0	2865.4	718.0	775.1	901.5	1054.7	1116.2	979.8	810.9	725.9	712.4
70°	2669.7	1627.3	619.6	704.6	815.3	940.6	1052.4	940.6	761.7	691.2	682.2
72.5°	1012.2	747.1	535.7	634.2	732.6	844.4	982.0	879.1	704.6	652.0	643.1
75°	540.2	455.2	450.7	551.4	637.5	750.5	893.6	818.7	662.1	689.0	711.3
77.5°	368.0	322.1	376.9	472.0	533.5	646.5	799.7	727.0	573.8	571.5	526.8
80°	255.0	228.2	306.5	380.3	412.7	543.6	697.9	624.1	467.5	436.2	417.2
82.5°	153.2	148.8	229.3	284.1	291.9	419.4	578.2	523.4	382.5	333.3	335.5
85°	83.9	88.4	146.5	166.6	170.0	293.0	453.0	404.9	294.1	247.2	249.4
87.5°	23.5	30.2	53.7	66.0	81.6	152.1	269.5	240.5	147.6	102.9	102.9
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)