

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: P949511

Luminaire Tested: **GALN-SB4B-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949511
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-SB4B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 16124 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - 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



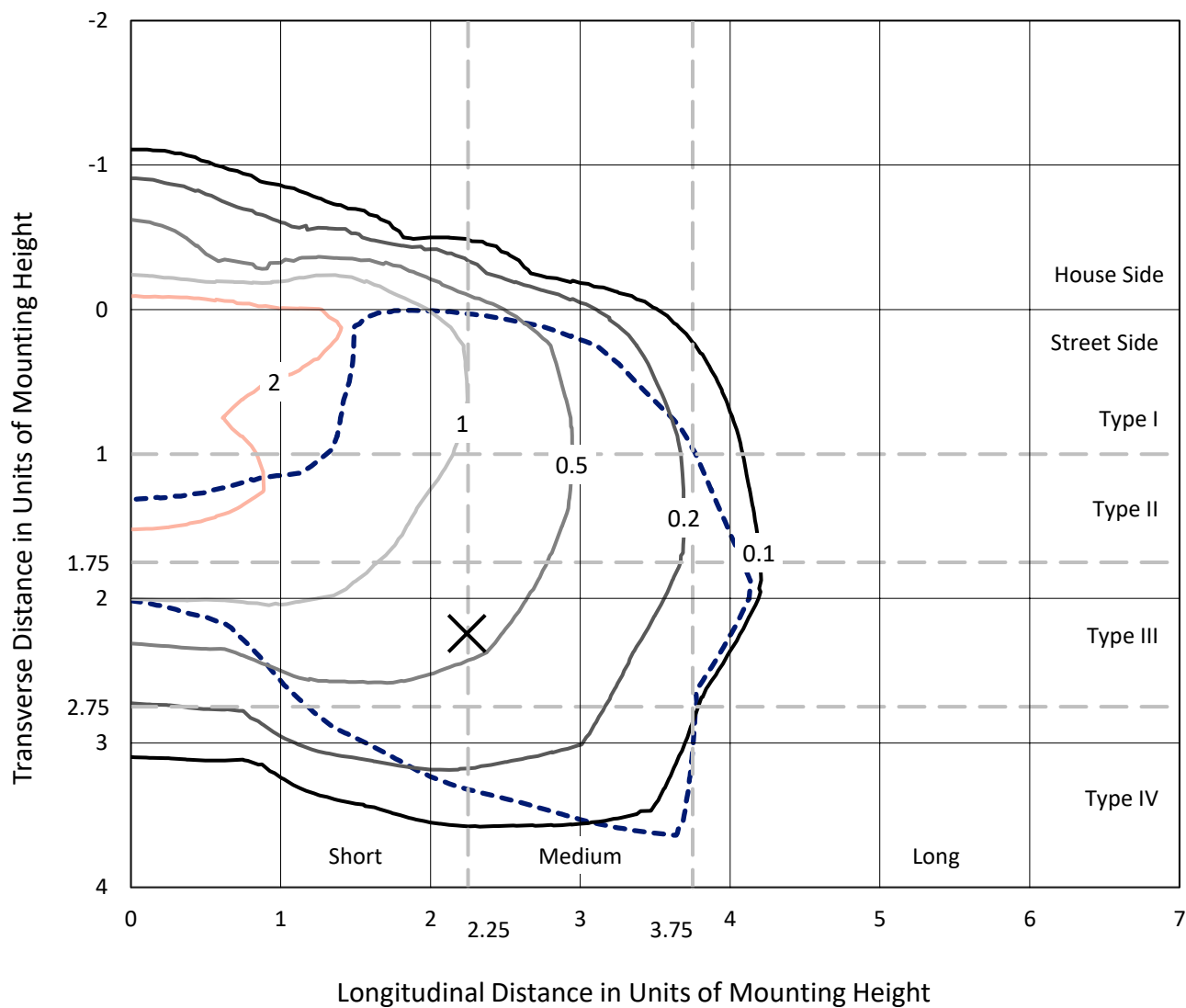
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

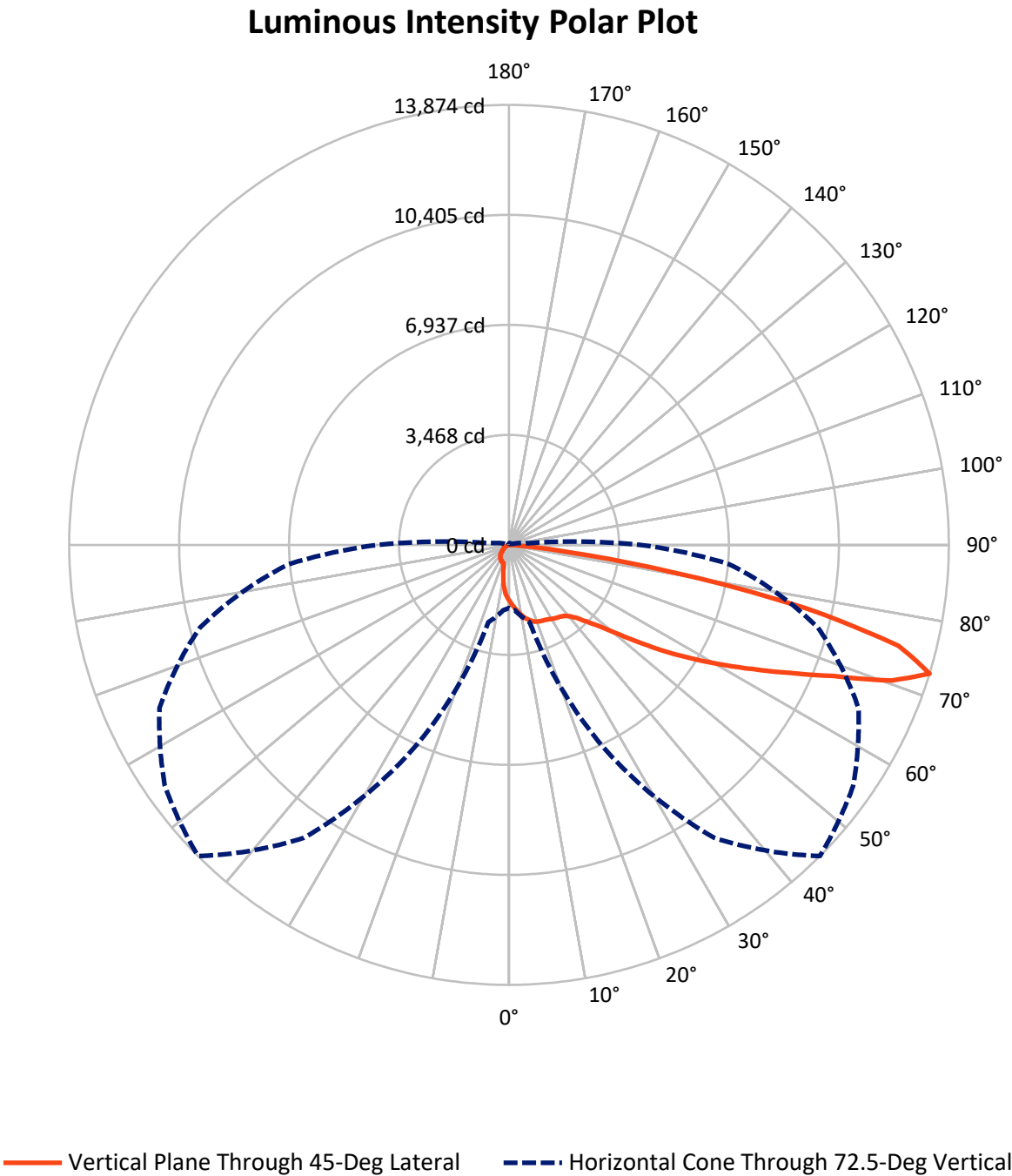
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc

Type IV - Short - N/A

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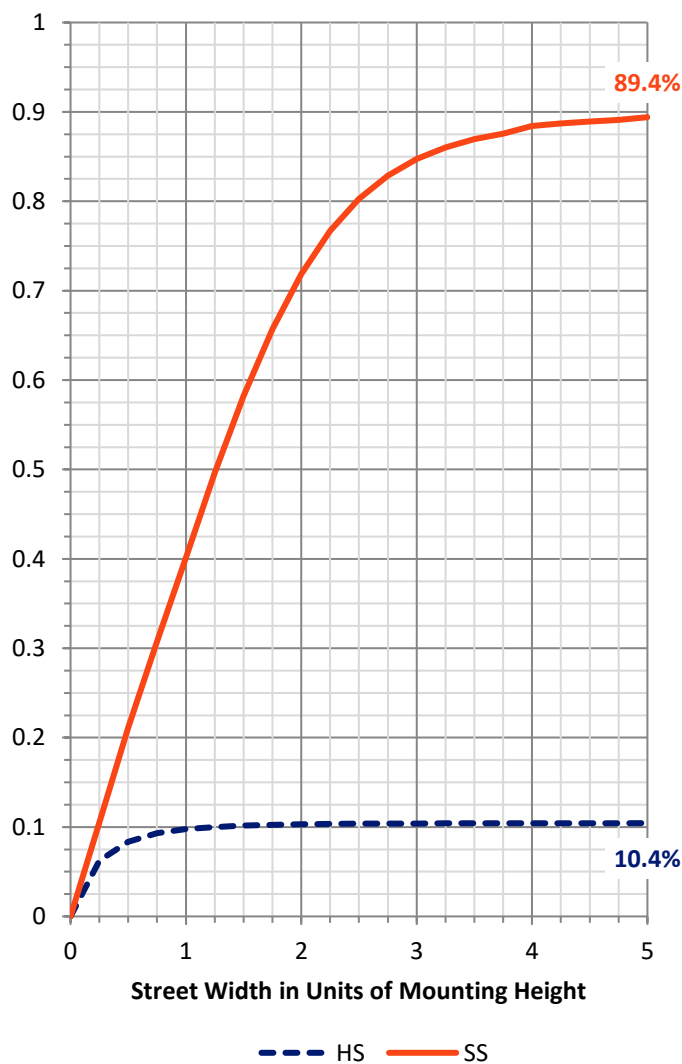
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1694.2	0.0	1694.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14429.8	0.0	14429.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	16124.0	0.0	16124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	1.0
10°-20°	486.4	3.0
20°-30°	798.8	5.0
30°-40°	1132.8	7.0
40°-50°	1872.5	11.6
50°-60°	3363.7	20.9
60°-70°	4670.6	29.0
70°-80°	3387.9	21.0
80°-90°	244.9	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°	16124.0	100.0
0°-180°	16124.0	100.0

Coefficient of Utilization



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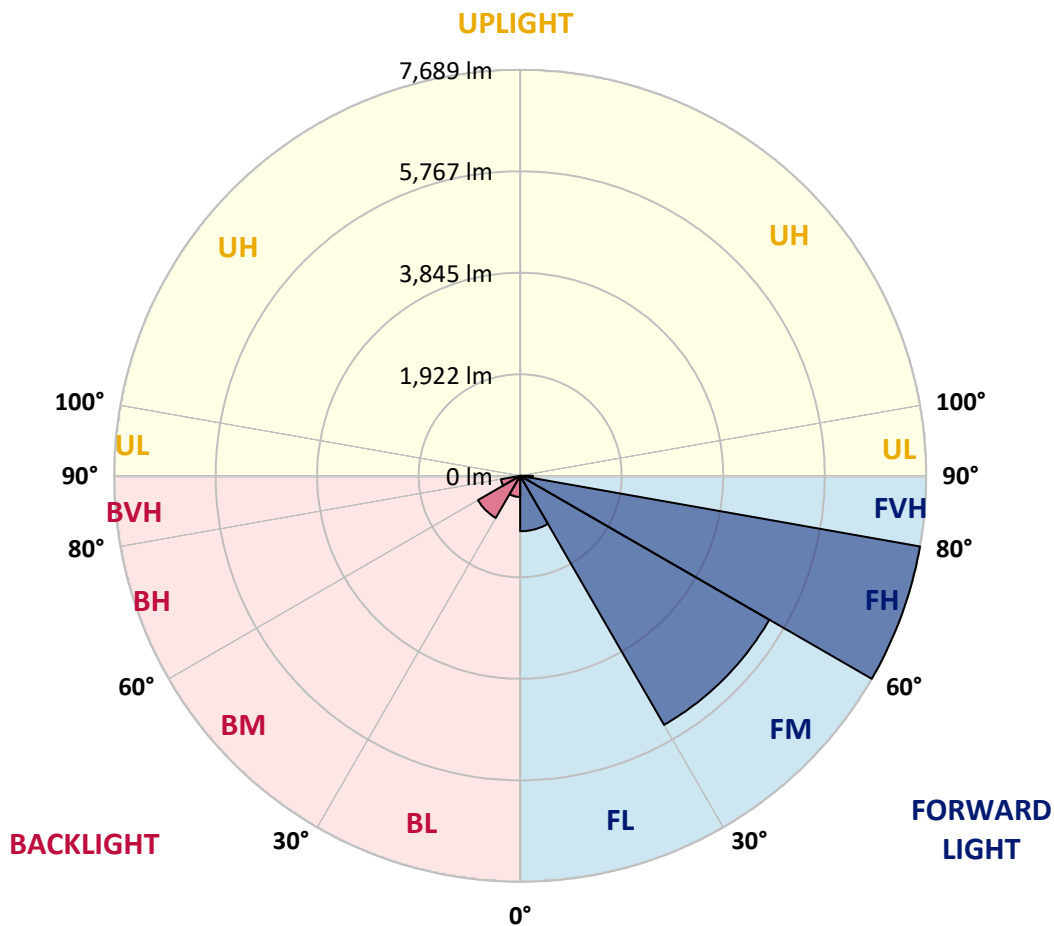
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1050.3	6.5			
FM	(30°-60°)	5447.5	33.8			
FH	(60°-80°)	7689.1	47.7			G4/12000
FVH	(80°-90°)	242.9	1.5			G3/500
BL	(0°-30°)	401.3	2.5	B1/500		
BM	(30°-60°)	921.4	5.7	B1/1000		
BH	(60°-80°)	369.4	2.3	B1/500		G1/500
BVH	(80°-90°)	2.1	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°	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4
2.5°	1929.3	1932.6	1930.4	1917.2	1895.2	1883.1	1876.5	1854.5	1840.2	1814.8	1788.4
5°	2106.5	2119.7	2112.0	2085.6	2043.8	2014.0	2005.2	1960.1	1919.4	1872.1	1817.0
7.5°	2294.7	2301.3	2287.0	2252.9	2196.7	2146.1	2138.4	2075.7	2010.7	1938.1	1863.3
10°	2457.6	2465.3	2443.3	2393.7	2329.9	2267.2	2256.2	2186.8	2109.8	2020.7	1924.9
12.5°	2594.0	2601.8	2573.1	2513.7	2443.3	2378.3	2367.3	2294.7	2209.9	2110.9	1992.0
15°	2697.5	2711.8	2673.3	2609.5	2533.5	2468.6	2463.1	2391.5	2309.0	2198.9	2072.4
17.5°	2758.0	2772.3	2736.0	2659.0	2594.0	2539.0	2532.4	2473.0	2395.9	2290.3	2150.5
20°	2767.9	2781.1	2742.6	2675.5	2621.6	2577.5	2574.2	2531.3	2475.2	2373.9	2235.3
22.5°	2738.2	2754.7	2719.5	2665.6	2628.2	2605.1	2600.7	2576.4	2544.5	2458.7	2314.5
25°	2707.4	2720.6	2694.2	2646.9	2627.1	2624.9	2628.2	2623.8	2617.2	2544.5	2407.0
27.5°	2705.2	2719.5	2689.8	2644.7	2633.7	2656.8	2660.1	2681.0	2686.5	2622.7	2496.1
30°	2723.9	2733.8	2705.2	2657.9	2652.4	2705.2	2706.3	2743.7	2752.5	2688.7	2584.1
32.5°	2764.6	2775.6	2747.0	2677.7	2670.0	2743.7	2747.0	2796.6	2810.9	2759.1	2676.6
35°	2860.4	2873.6	2840.6	2732.7	2705.2	2780.0	2790.0	2848.3	2876.9	2834.0	2772.3
37.5°	3099.2	3060.7	3015.6	2843.9	2785.5	2837.3	2853.8	2922.0	2972.6	2923.1	2886.8
40°	3692.4	3571.4	3430.5	3033.2	2926.4	2959.4	2972.6	3040.9	3110.2	3061.8	3044.2
42.5°	4582.8	4439.7	4213.0	3469.0	3138.8	3155.3	3165.2	3224.7	3322.6	3284.1	3288.5
45°	5376.3	5324.6	5093.4	4213.0	3536.1	3454.7	3466.8	3497.6	3641.8	3627.5	3656.1
47.5°	5986.0	5956.3	5778.0	5067.0	4207.5	3821.2	3855.3	3869.6	4077.6	4128.2	4205.3
50°	6454.9	6443.9	6284.3	5826.4	5084.6	4361.6	4373.7	4342.9	4654.3	4779.8	4926.2
52.5°	6897.3	6934.7	6816.9	6531.9	6021.2	5069.2	5067.0	4921.8	5342.2	5531.5	5781.3
55°	7296.8	7310.0	7322.1	7251.7	6963.3	5874.9	5853.9	5616.2	6140.1	6336.0	6606.7
57.5°	7672.1	7677.6	7785.4	7929.6	7943.9	6739.9	6701.4	6416.3	7011.7	7151.5	7317.7
60°	7924.1	7949.4	8177.3	8577.9	8752.9	7632.5	7611.6	7321.0	7898.8	7963.7	7932.9
62.5°	7560.9	7715.0	8289.5	9084.1	9516.6	8621.9	8612.0	8339.0	8832.1	8779.3	8515.1
65°	6120.3	6381.1	7391.4	9426.4	10266.1	9726.9	9741.2	9450.6	9790.7	9619.0	8988.4
67.5°	4281.2	4556.4	5751.6	9453.9	11103.7	11024.4	11107.0	10651.3	10808.7	10423.5	9100.6
70°	2960.5	3102.5	3880.6	8861.8	11756.3	12811.8	12809.6	12126.1	11821.2	10790.0	8528.3
72.5°	1990.9	2064.7	2520.3	7030.5	11276.5	13873.8	13810.0	13253.1	12162.4	10091.1	6967.7
75°	839.7	893.7	1166.6	3951.1	8921.2	12692.9	12520.1	11712.3	10806.5	7946.1	4347.3
77.5°	266.3	289.5	460.0	1414.2	4914.1	9540.9	9358.2	7314.4	7242.9	3986.3	1589.2
80°	126.6	147.5	258.6	567.9	1933.7	5189.2	5163.9	3318.2	3115.7	1076.4	319.2
82.5°	55.0	64.9	143.1	303.8	865.0	1851.2	1888.6	1129.2	934.4	408.3	98.0
85°	17.6	23.1	66.0	139.8	365.4	460.0	454.5	268.5	376.4	222.3	34.1
87.5°	0.0	0.0	22.0	31.9	37.4	26.4	29.7	23.1	104.6	61.6	12.1
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°	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4
2.5°	1775.2	1757.6	1726.8	1698.2	1672.9	1647.6	1632.1	1610.1	1607.9	1607.9	1613.4
5°	1787.3	1758.7	1703.7	1645.4	1578.2	1514.4	1450.6	1388.9	1369.1	1354.8	1361.4
7.5°	1822.5	1777.4	1690.5	1579.3	1451.7	1311.9	1213.9	1108.3	1067.6	1045.5	1048.8
10°	1873.2	1811.5	1679.5	1484.7	1277.8	1087.4	947.6	833.1	789.1	770.4	770.4
12.5°	1929.3	1853.4	1659.7	1366.9	1087.4	859.5	723.1	670.2	663.6	663.6	663.6
15°	1996.4	1904.0	1625.5	1228.2	888.2	680.2	631.7	633.9	640.5	644.9	644.9
17.5°	2065.8	1957.9	1571.6	1073.1	712.1	611.9	613.0	616.3	621.8	626.2	626.2
20°	2140.6	2011.8	1500.1	908.0	610.8	592.1	595.4	598.7	603.1	605.3	606.4
22.5°	2221.0	2062.5	1415.3	746.2	576.7	575.6	576.7	580.0	585.5	585.5	587.7
25°	2306.8	2118.6	1318.5	628.4	559.1	559.1	561.3	563.5	567.9	567.9	569.0
27.5°	2394.8	2170.3	1216.1	566.8	543.7	542.6	542.6	545.9	548.1	549.2	550.3
30°	2491.7	2230.9	1113.8	553.6	531.6	526.1	522.8	525.0	527.2	528.3	530.5
32.5°	2590.7	2289.2	1022.4	559.1	519.5	509.6	498.6	496.4	496.4	500.8	504.1
35°	2700.8	2353.0	952.0	577.8	512.9	485.4	467.7	457.8	458.9	465.5	468.8
37.5°	2832.9	2430.1	900.3	594.3	508.5	457.8	429.2	417.1	409.4	417.1	414.9
40°	3005.7	2543.4	862.8	607.5	503.0	425.9	387.4	367.6	353.3	357.7	355.5
42.5°	3259.9	2721.7	848.5	608.6	490.9	388.5	344.5	318.1	297.2	298.3	293.9
45°	3616.5	3003.5	922.3	594.3	464.4	347.8	299.4	264.1	250.9	247.6	243.2
47.5°	4105.1	3414.0	1092.9	564.6	425.9	308.2	255.3	225.6	215.7	210.2	206.9
50°	4760.0	3941.1	1282.2	531.6	387.4	270.7	219.0	200.3	193.7	188.2	187.1
52.5°	5519.4	4476.0	1437.3	498.6	348.9	237.7	195.9	184.9	179.4	175.0	173.9
55°	6216.0	4844.7	1428.5	463.3	311.5	211.3	179.4	172.8	166.2	161.8	159.6
57.5°	6649.7	4896.4	1177.6	424.8	268.5	190.4	164.0	159.6	151.9	146.4	145.3
60°	6848.9	4601.5	825.4	374.2	225.6	170.6	147.5	145.3	135.4	127.7	125.5
62.5°	6885.2	4053.4	550.3	311.5	188.2	151.9	131.0	127.7	114.5	101.3	94.6
65°	6737.7	3269.8	380.8	243.2	160.7	132.1	112.3	105.7	91.3	78.1	73.7
67.5°	6271.1	2295.8	265.2	175.0	136.5	104.6	89.1	86.9	75.9	64.9	61.6
70°	5415.9	1308.6	177.2	131.0	107.9	71.5	70.4	72.6	61.6	52.8	48.4
72.5°	4152.5	598.7	110.1	95.7	73.7	48.4	56.1	57.2	47.3	39.6	35.2
75°	2444.4	256.4	69.3	61.6	37.4	31.9	40.7	41.8	31.9	25.3	22.0
77.5°	832.0	96.9	44.0	36.3	18.7	17.6	26.4	26.4	17.6	9.9	7.7
80°	189.3	36.3	22.0	14.3	8.8	7.7	8.8	7.7	4.4	1.1	0.0
82.5°	53.9	14.3	8.8	5.5	3.3	3.3	1.1	0.0	0.0	0.0	0.0
85°	15.4	6.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	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	0.0

(END OF REPORT)