

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: P953061

Luminaire Tested: **GALN-SB6D-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50877 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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

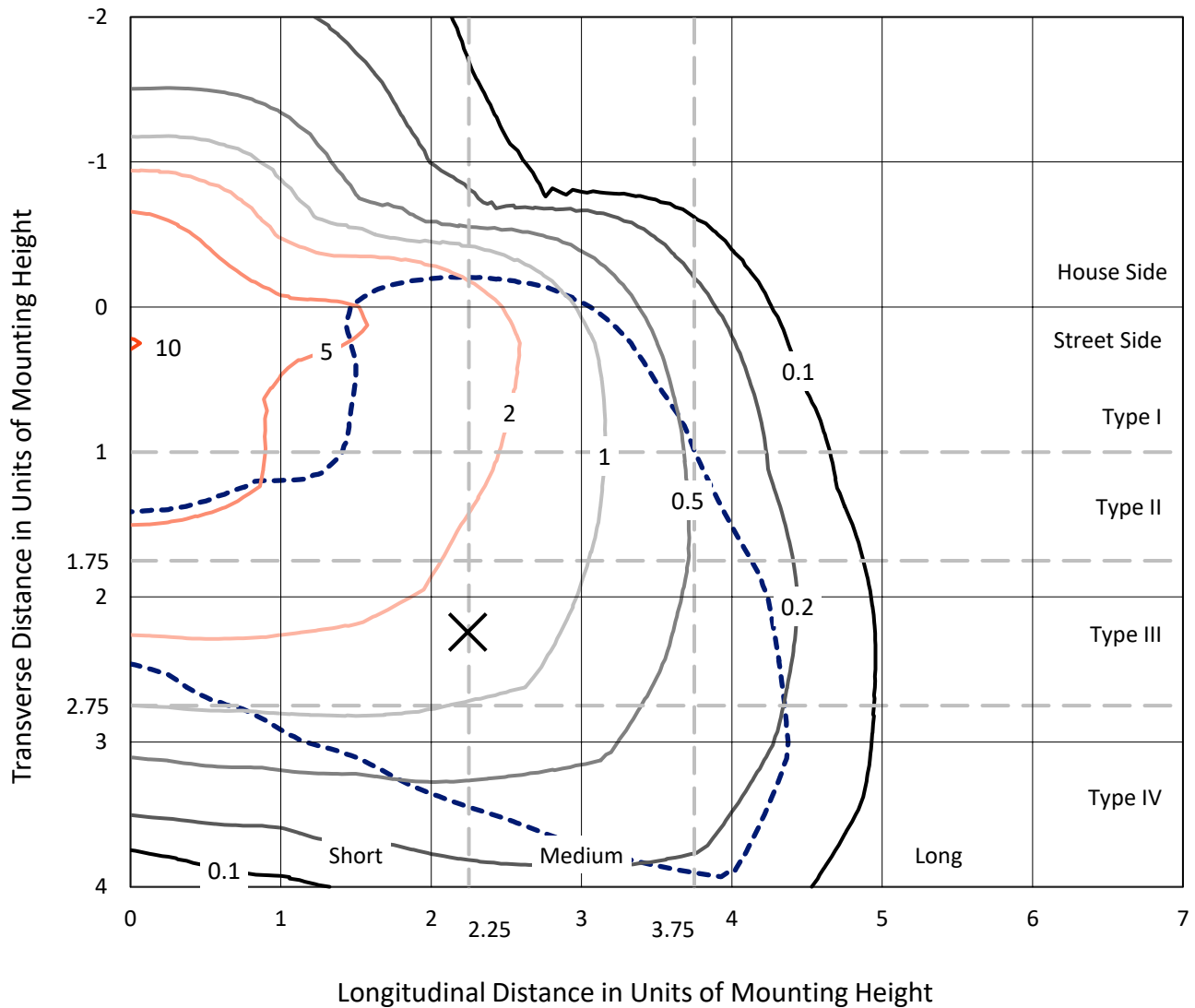


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

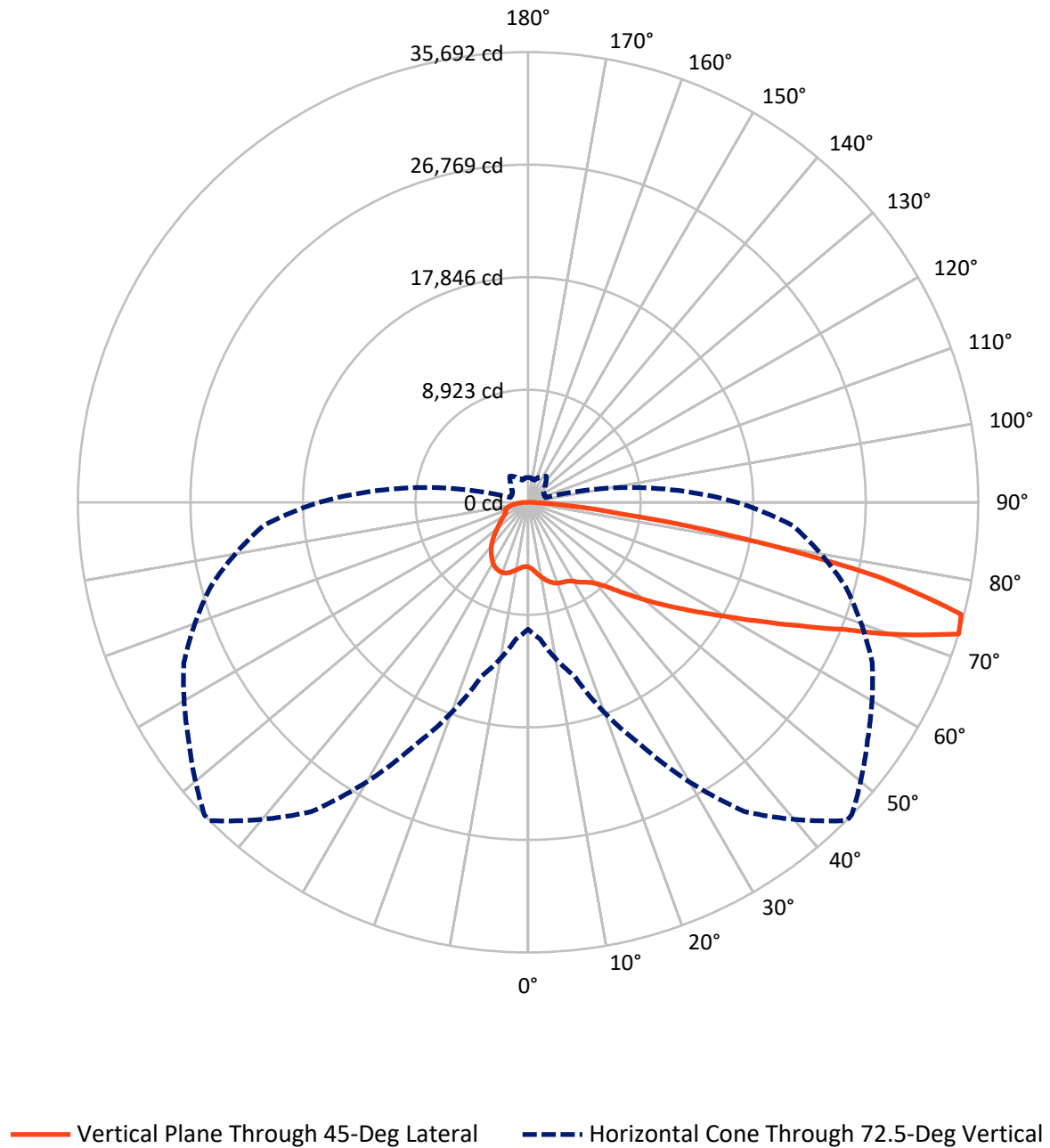


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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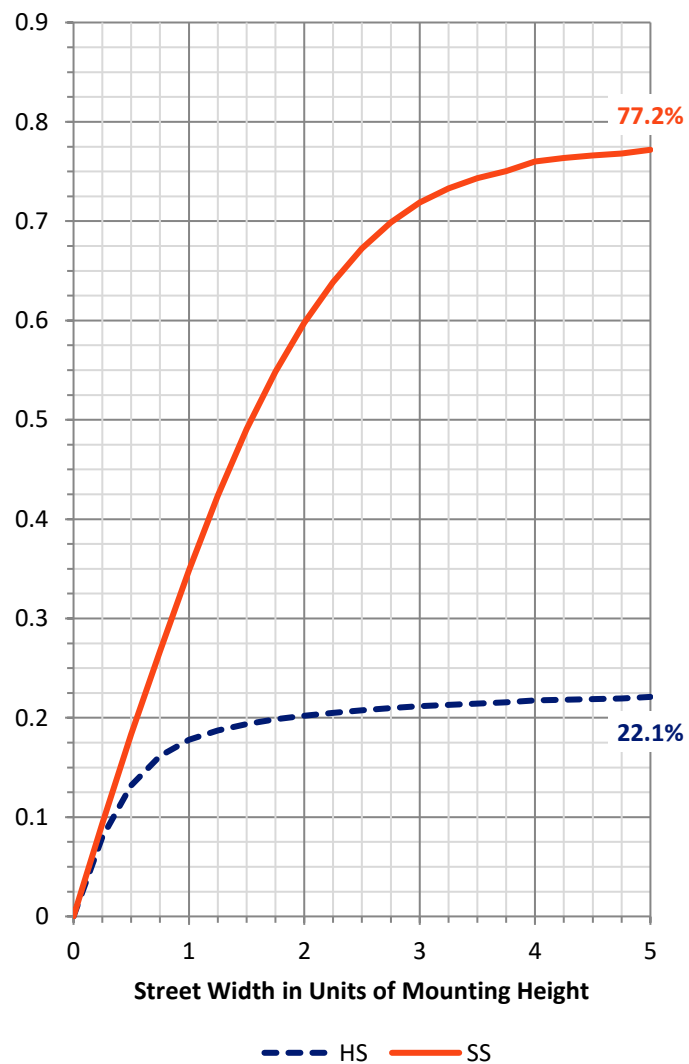
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11501.5	0.0	11501.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	39375.5	0.0	39375.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	50877.0	0.0	50877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.4	1.0
10°-20°	1741.7	3.4
20°-30°	3029.8	6.0
30°-40°	4343.4	8.5
40°-50°	6115.7	12.0
50°-60°	9367.5	18.4
60°-70°	13570.2	26.7
70°-80°	10836.6	21.3
80°-90°	1349.7	2.7
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°	50877.0	100.0
0°-180°	50877.0	100.0

Coefficient of Utilization



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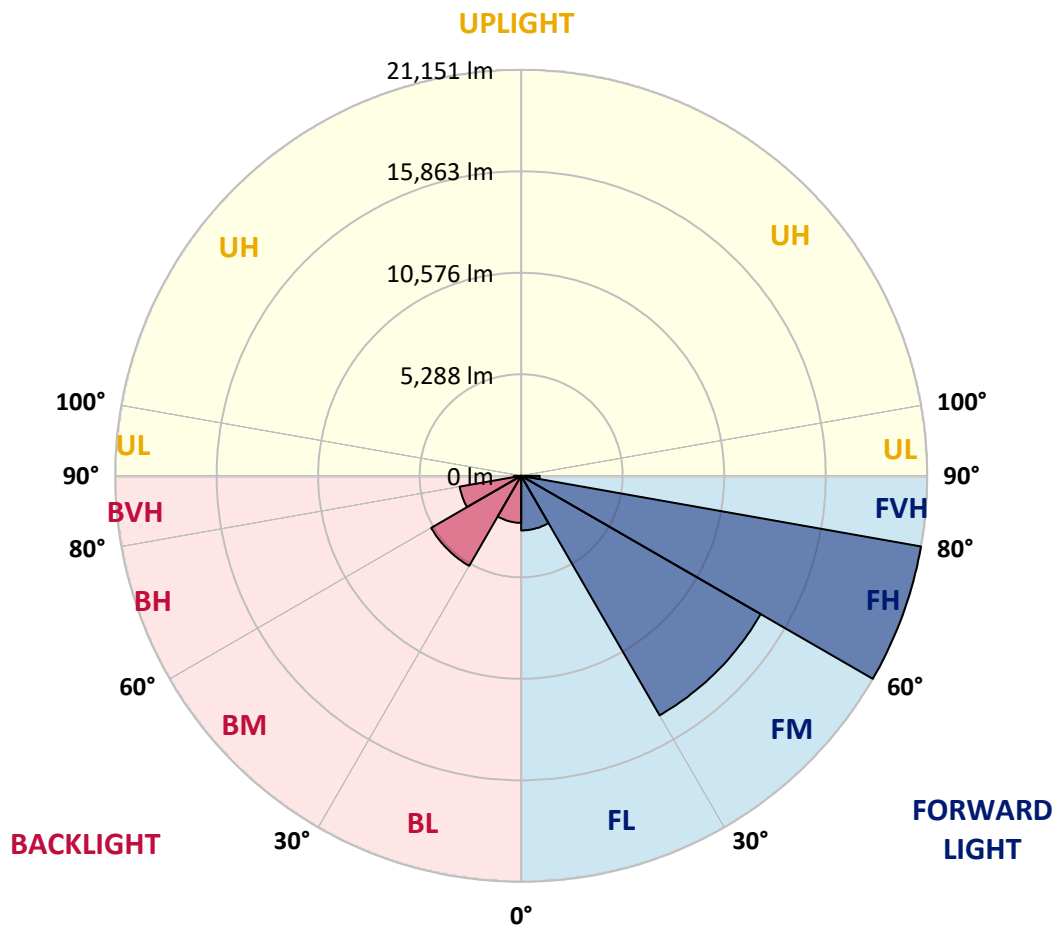
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2845.1	5.6			
FM	(30°-60°)	14411.0	28.3			
FH	(60°-80°)	21151.1	41.6			G5
FVH	(80°-90°)	968.3	1.9			G5
BL	(0°-30°)	2448.8	4.8	B3/2500		
BM	(30°-60°)	5415.6	10.6	B4/8500		
BH	(60°-80°)	3255.8	6.4	B4/5000		G4/5000
BVH	(80°-90°)	381.4	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5
2.5°	5333.5	5368.4	5336.2	5306.7	5293.3	5258.5	5255.8	5234.3	5220.9	5183.4	5172.7
5°	5706.1	5751.6	5698.0	5639.0	5585.4	5499.7	5489.0	5427.3	5357.6	5277.2	5231.7
7.5°	6126.8	6167.0	6105.4	6017.0	5923.1	5781.1	5778.4	5665.9	5556.0	5419.3	5341.6
10°	6494.0	6547.6	6464.5	6343.9	6226.0	6065.2	6046.4	5917.8	5778.4	5601.5	5483.6
12.5°	6818.3	6855.8	6775.4	6628.0	6491.3	6330.5	6306.4	6164.4	6008.9	5807.9	5657.8
15°	7075.6	7123.9	7016.6	6858.5	6713.8	6555.7	6534.2	6405.6	6250.1	6038.4	5845.4
17.5°	7244.5	7284.7	7174.8	6997.9	6858.5	6727.2	6711.1	6603.9	6467.2	6252.8	6046.4
20°	7308.8	7351.7	7236.4	7056.9	6928.2	6826.4	6818.3	6740.6	6646.8	6451.1	6242.1
22.5°	7373.1	7413.3	7263.2	7075.6	6963.0	6898.7	6896.0	6845.1	6807.6	6646.8	6443.1
25°	7633.1	7643.8	7442.8	7172.1	7011.3	6955.0	6952.3	6949.6	6965.7	6839.8	6660.2
27.5°	7858.2	7855.5	7684.0	7429.4	7180.1	7062.2	7059.5	7086.3	7137.3	7032.7	6885.3
30°	8187.9	8158.4	7954.7	7689.4	7461.6	7279.3	7263.2	7239.1	7279.3	7196.2	7110.5
32.5°	8887.4	8793.6	8463.9	7992.2	7694.7	7555.4	7533.9	7383.8	7399.9	7349.0	7306.1
35°	9889.8	9766.5	9326.9	8565.8	7984.2	7785.9	7775.1	7584.8	7552.7	7507.1	7523.2
37.5°	11082.4	10929.7	10417.8	9396.6	8482.7	8053.9	8037.8	7866.3	7734.9	7686.7	7777.8
40°	12280.5	12087.5	11664.0	10409.7	9217.1	8501.5	8450.5	8190.6	8040.5	7960.1	8153.0
42.5°	13443.7	13282.9	12921.0	11546.1	10122.9	9155.4	9042.8	8597.9	8485.4	8410.3	8758.8
45°	14472.8	14328.1	14062.8	12760.2	11184.3	10045.2	9935.3	9209.0	9174.2	9174.2	9678.0
47.5°	15309.1	15276.9	14995.5	13998.5	12435.9	11058.3	10868.0	10058.6	10152.4	10297.2	10983.3
50°	16236.4	16147.9	15847.8	15217.9	13907.3	12218.8	12063.4	11101.2	11452.3	11849.0	12870.1
52.5°	17088.7	17136.9	16801.9	16488.3	15569.0	13513.3	13240.0	12331.4	13089.9	13746.5	15081.2
55°	17965.1	17967.8	17874.0	17831.1	17311.1	14944.6	14644.4	13810.8	15016.9	15831.7	17659.5
57.5°	18787.9	18793.3	18932.6	19310.5	19332.0	16595.5	16255.1	15628.0	17158.4	17989.2	20318.3
60°	19522.3	19559.8	19940.4	20824.8	21108.9	18487.7	18166.1	17774.8	19372.2	20208.4	23113.7
62.5°	19768.8	19905.5	20752.4	22009.4	22864.4	20808.7	20492.5	20259.3	21698.5	22475.8	25450.8
65°	19350.7	19664.3	21301.9	22987.7	24670.8	23566.6	23253.0	22998.4	24116.0	24847.7	27369.8
67.5°	18324.2	18728.9	21269.7	24014.2	26863.2	26884.6	26592.5	25994.8	26707.8	26989.2	27994.2
70°	15620.0	16225.7	19396.3	24397.5	29379.9	31422.2	31140.7	29602.3	29294.1	27932.6	26236.0
72.5°	10064.0	10878.8	14282.6	21242.9	29940.0	35691.6	35675.6	32858.7	30111.6	26099.4	21041.9
75°	3671.8	4170.3	6636.1	13333.8	25131.8	35474.5	35579.1	32301.2	27487.7	20160.1	13108.6
77.5°	1337.4	1463.4	2165.6	5124.5	15456.5	28463.3	28680.4	25823.3	19565.1	10117.6	5194.1
80°	702.2	771.9	1109.6	1988.7	6622.7	16903.7	17244.1	15346.6	9195.6	3047.3	1557.2
82.5°	388.6	420.8	621.8	1080.1	2983.0	7228.4	7432.1	6062.5	3234.9	1291.8	643.2
85°	209.1	222.5	292.1	589.6	1458.0	2505.9	2562.2	1811.8	1289.2	758.5	310.9
87.5°	61.6	75.0	96.5	187.6	570.9	562.8	576.2	359.1	509.2	383.3	101.8
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°	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5
2.5°	5156.6	5148.6	5119.1	5105.7	5089.6	5086.9	5100.3	5103.0	5105.7	5108.4	5119.1
5°	5204.9	5178.1	5151.3	5135.2	5140.5	5143.2	5170.0	5188.8	5202.2	5212.9	5218.3
7.5°	5298.7	5277.2	5231.7	5229.0	5237.0	5261.1	5296.0	5338.9	5363.0	5381.8	5387.1
10°	5438.0	5397.8	5344.2	5352.3	5368.4	5403.2	5475.6	5510.4	5550.6	5585.4	5577.4
12.5°	5580.1	5545.2	5483.6	5489.0	5515.8	5577.4	5647.1	5690.0	5716.8	5743.6	5754.3
15°	5765.0	5703.4	5636.4	5636.4	5684.6	5751.6	5783.8	5818.6	5834.7	5864.2	5874.9
17.5°	5955.3	5874.9	5786.5	5781.1	5840.1	5872.2	5891.0	5896.3	5901.7	5933.9	5944.6
20°	6145.6	6057.2	5931.2	5920.5	5933.9	5928.5	5925.8	5920.5	5928.5	5968.7	5984.8
22.5°	6333.2	6231.4	6057.2	6008.9	5971.4	5920.5	5917.8	5915.1	5920.5	5960.7	5987.5
25°	6553.0	6429.7	6196.5	6051.8	5925.8	5856.1	5864.2	5866.9	5872.2	5904.4	5947.3
27.5°	6791.5	6654.8	6325.2	6038.4	5810.6	5762.3	5748.9	5757.0	5775.7	5826.7	5877.6
30°	7030.0	6869.2	6443.1	5984.8	5665.9	5598.8	5556.0	5574.7	5633.7	5684.6	5740.9
32.5°	7247.1	7086.3	6536.9	5866.9	5480.9	5376.4	5320.1	5344.2	5403.2	5422.0	5489.0
35°	7501.8	7319.5	6577.1	5679.3	5279.9	5119.1	5044.1	5009.2	5038.7	5019.9	5078.9
37.5°	7785.9	7595.6	6571.7	5432.7	5044.1	4859.1	4754.6	4623.3	4561.6	4497.3	4537.5
40°	8206.6	7933.3	6507.4	5135.2	4751.9	4583.1	4395.5	4173.0	4033.6	3907.7	3915.7
42.5°	8780.2	8402.3	6389.5	4808.2	4422.3	4264.1	4009.5	3749.5	3529.8	3320.7	3302.0
45°	9635.2	9016.0	6242.1	4459.8	4065.8	3910.3	3634.3	3342.2	3092.9	2824.9	2792.7
47.5°	10868.0	9841.5	6102.7	4063.1	3690.6	3548.5	3299.3	3028.6	2733.8	2473.8	2444.3
50°	12561.9	11026.2	5974.1	3677.2	3320.7	3213.5	3015.2	2739.1	2441.6	2232.6	2219.2
52.5°	14716.7	12636.9	5920.5	3304.6	2975.0	2934.8	2776.6	2519.3	2237.9	2061.0	2047.6
55°	17190.5	14564.0	5920.5	2948.2	2672.1	2685.5	2575.6	2337.1	2093.2	1935.1	1919.0
57.5°	19715.2	16515.1	5813.3	2618.5	2414.8	2471.1	2401.4	2192.4	1972.6	1809.1	1782.3
60°	22041.6	18150.0	5379.1	2318.3	2187.0	2275.5	2229.9	2050.3	1782.3	1645.6	1624.2
62.5°	23829.3	19072.0	4542.9	2079.8	1999.4	2101.2	2077.1	1862.7	1747.5	1691.2	1672.4
65°	24724.4	18921.9	3473.5	1868.1	1841.3	1999.4	1948.5	1940.4	1849.3	1785.0	1763.5
67.5°	24175.0	17630.1	2519.3	1712.6	1750.1	1905.6	2101.2	2133.4	1964.6	1838.6	1817.1
70°	21765.5	15293.0	1876.1	1565.2	1634.9	1908.3	2396.1	2232.6	1927.0	1779.6	1755.5
72.5°	16558.0	11404.1	1455.3	1409.8	1484.8	1921.7	2527.4	2187.0	1819.8	1967.2	1951.2
75°	9469.0	6260.8	1168.5	1219.5	1297.2	1795.7	2460.4	2069.1	1736.7	1806.4	1806.4
77.5°	3610.2	2406.8	964.9	1031.9	1042.6	1567.9	2353.2	2061.0	1653.7	1613.5	1471.4
80°	1251.6	940.7	798.7	820.1	806.7	1393.7	2256.7	1793.0	1353.5	1211.4	1171.2
82.5°	511.9	469.0	632.5	605.7	573.6	1082.8	1822.5	1466.0	1106.9	978.3	967.5
85°	222.5	297.5	418.1	367.2	332.3	750.4	1460.7	1240.9	935.4	806.7	804.0
87.5°	45.6	112.6	176.9	166.2	171.5	501.2	1037.2	881.8	662.0	495.8	388.6
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)