

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: P950561

Luminaire Tested: **GALN-SB5A-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950561
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-SB5A-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA 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: 14419 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 141.7
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

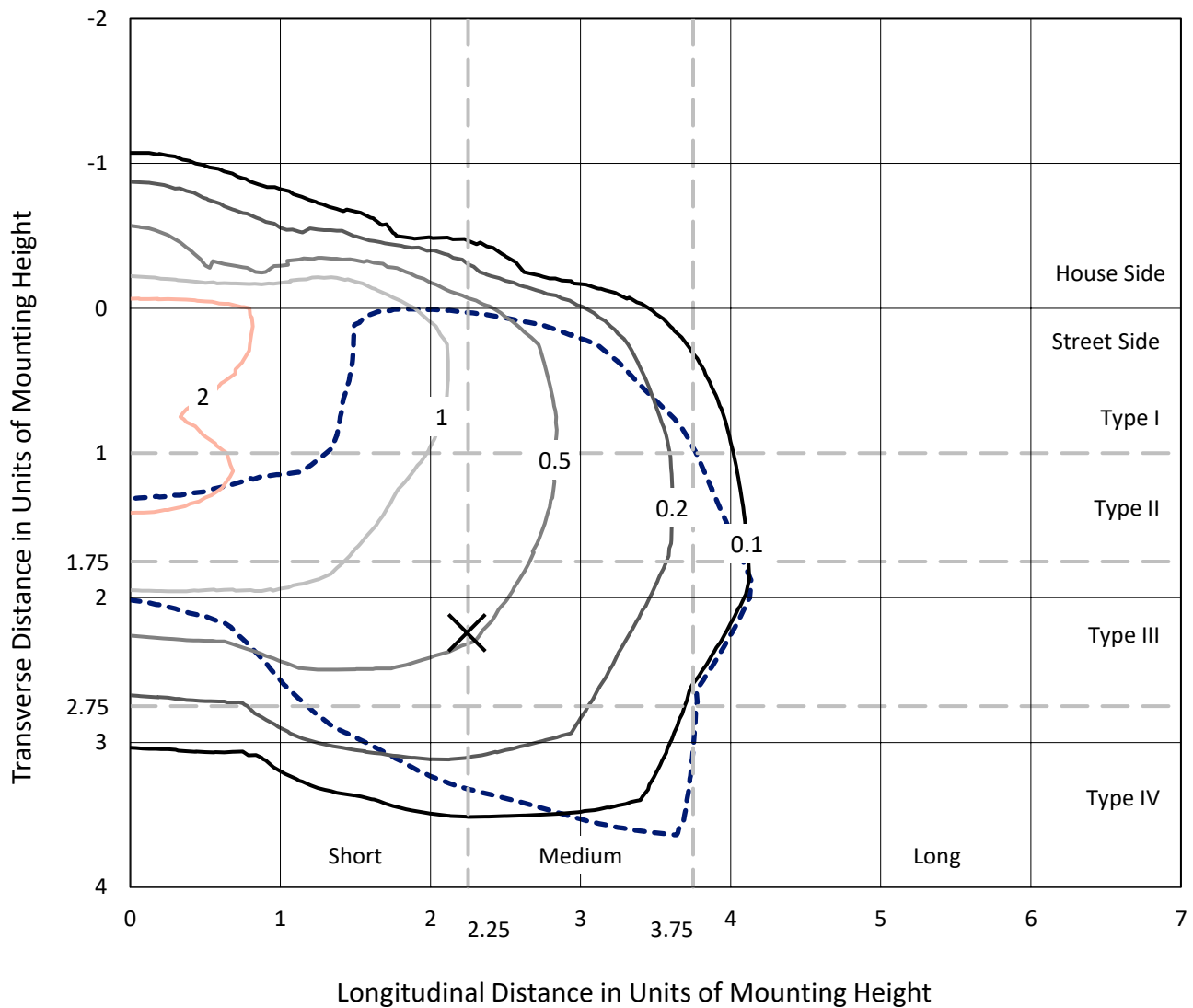


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Iso-Footcandle Lines of Horizontal Illumination

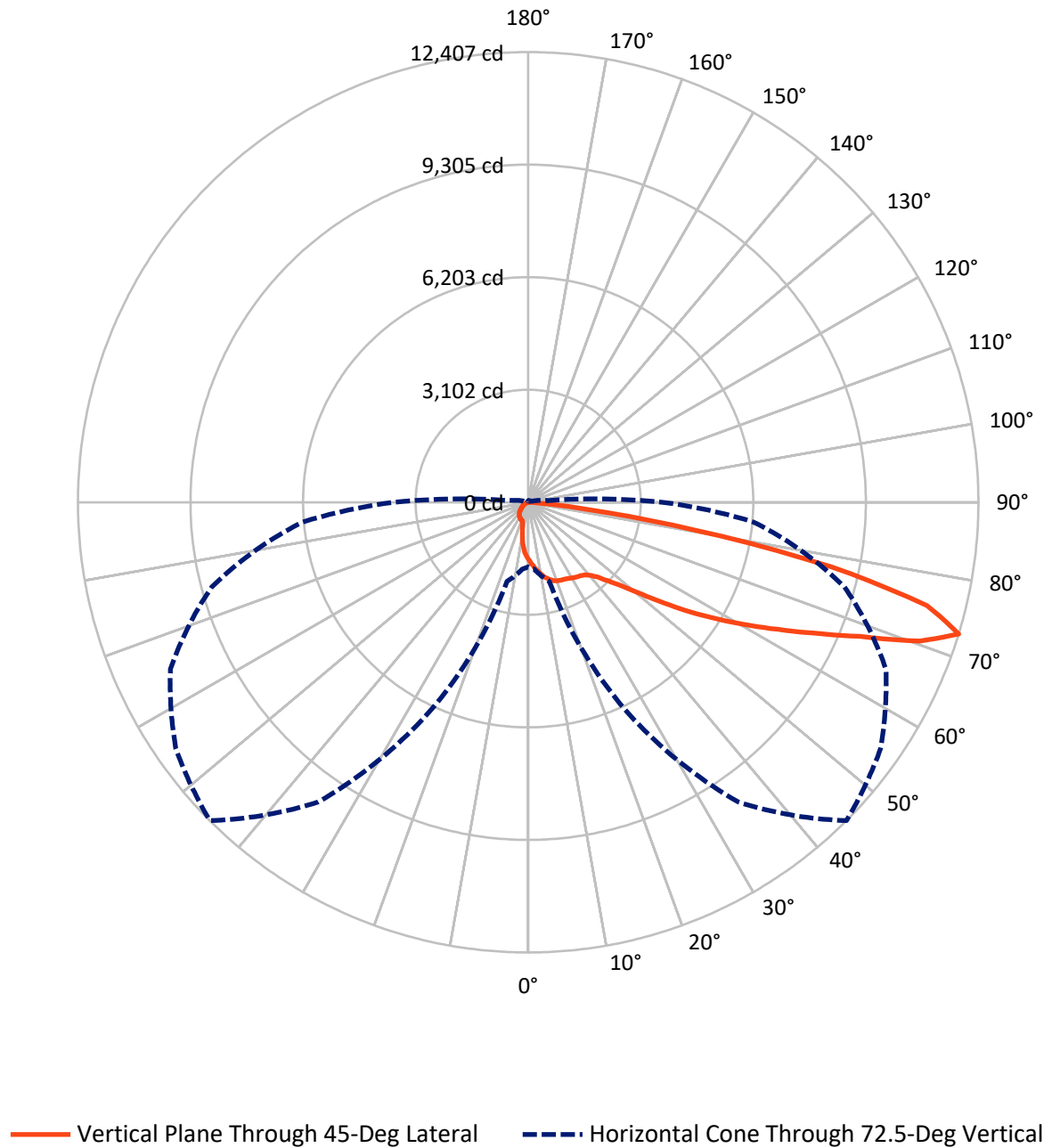
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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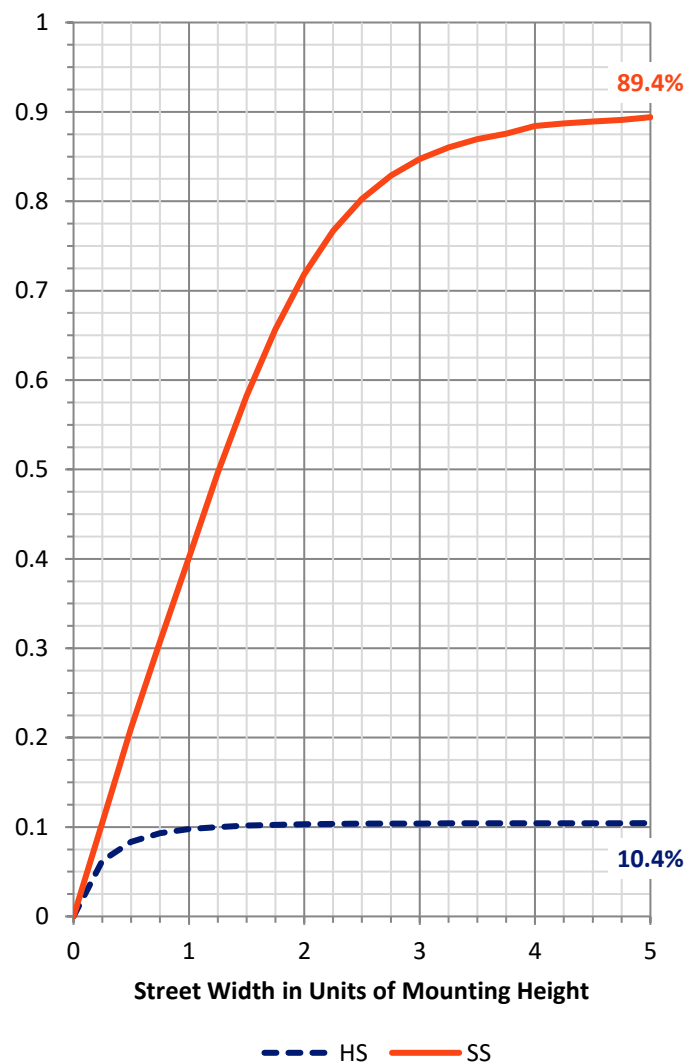
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1515.0	0.0	1515.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	12904.0	0.0	12904.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	14419.0	0.0	14419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	1.0
10°-20°	435.0	3.0
20°-30°	714.3	5.0
30°-40°	1013.0	7.0
40°-50°	1674.5	11.6
50°-60°	3008.0	20.9
60°-70°	4176.7	29.0
70°-80°	3029.7	21.0
80°-90°	219.0	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°	14419.0	100.0
0°-180°	14419.0	100.0

Coefficient of Utilization



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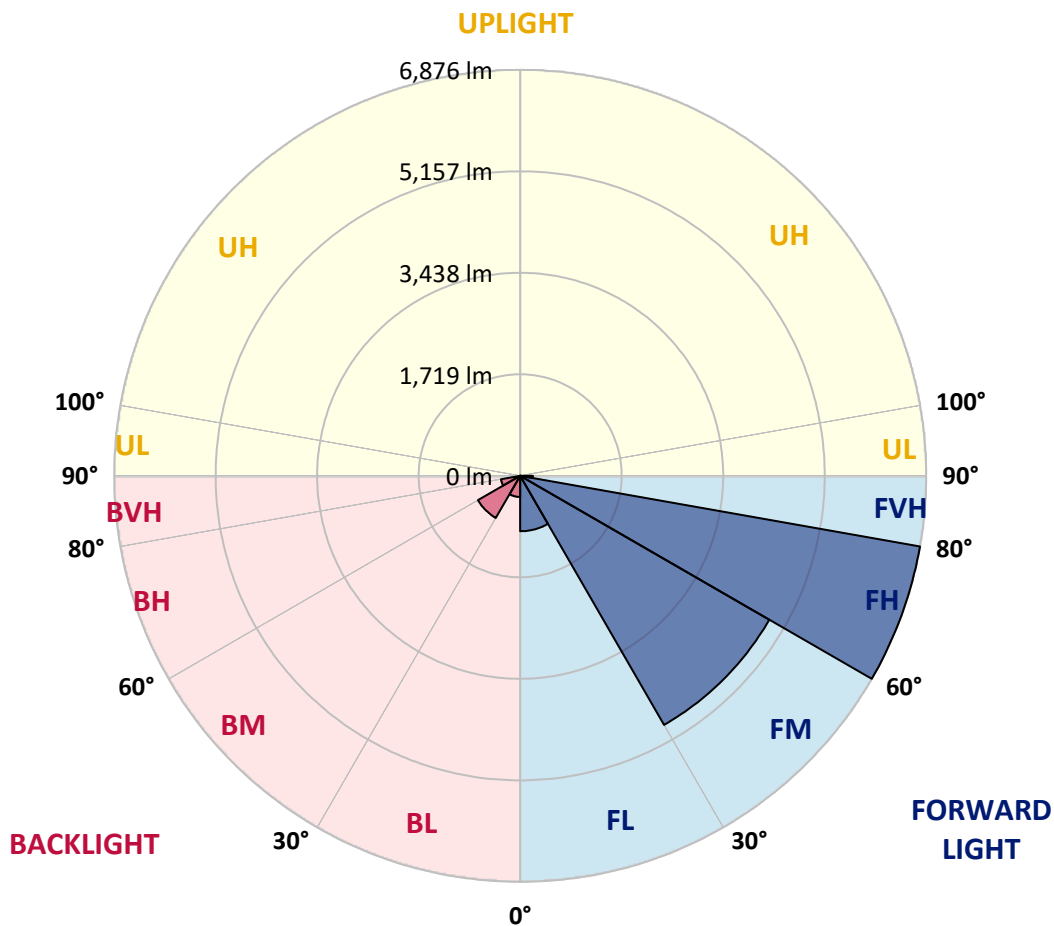
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	939.3	6.5			
FM	(30°-60°)	4871.5	33.8			
FH	(60°-80°)	6876.0	47.7			G3/7500
FVH	(80°-90°)	217.2	1.5			G2/225
BL	(0°-30°)	358.9	2.5	B1/500		
BM	(30°-60°)	824.0	5.7	B1/1000		
BH	(60°-80°)	330.4	2.3	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	85°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1725.3	1728.2	1726.3	1714.5	1694.8	1684.0	1678.1	1658.4	1645.6	1622.9	1599.3
5°	1883.7	1895.6	1888.7	1865.0	1827.6	1801.1	1793.2	1752.9	1716.4	1674.1	1624.9
7.5°	2052.0	2058.0	2045.2	2014.6	1964.5	1919.2	1912.3	1856.2	1798.1	1733.2	1666.2
10°	2197.7	2204.6	2184.9	2140.6	2083.5	2027.4	2017.6	1955.6	1886.7	1807.0	1721.4
12.5°	2319.7	2326.6	2301.0	2247.9	2184.9	2126.8	2117.0	2052.0	1976.3	1887.7	1781.4
15°	2412.3	2425.1	2390.6	2333.5	2265.6	2207.5	2202.6	2138.7	2064.8	1966.4	1853.2
17.5°	2466.4	2479.2	2446.7	2377.8	2319.7	2270.5	2264.6	2211.5	2142.6	2048.1	1923.1
20°	2475.2	2487.1	2452.6	2392.6	2344.4	2305.0	2302.0	2263.6	2213.5	2122.9	1998.9
22.5°	2448.7	2463.4	2431.9	2383.7	2350.3	2329.6	2325.7	2304.0	2275.5	2198.7	2069.8
25°	2421.1	2432.9	2409.3	2367.0	2349.3	2347.3	2350.3	2346.3	2340.4	2275.5	2152.4
27.5°	2419.2	2431.9	2405.4	2365.0	2355.2	2375.8	2378.8	2397.5	2402.4	2345.3	2232.2
30°	2435.9	2444.7	2419.2	2376.8	2371.9	2419.2	2420.1	2453.6	2461.5	2404.4	2310.9
32.5°	2472.3	2482.1	2456.5	2394.5	2387.7	2453.6	2456.5	2500.8	2513.6	2467.4	2393.6
35°	2557.9	2569.7	2540.2	2443.8	2419.2	2486.1	2494.9	2547.1	2572.7	2534.3	2479.2
37.5°	2771.5	2737.0	2696.7	2543.2	2491.0	2537.3	2552.0	2613.0	2658.3	2614.0	2581.5
40°	3302.0	3193.7	3067.7	2712.4	2617.0	2646.5	2658.3	2719.3	2781.3	2738.0	2722.3
42.5°	4098.2	3970.2	3767.5	3102.2	2806.9	2821.7	2830.5	2883.7	2971.3	2936.8	2940.8
45°	4807.8	4761.5	4554.9	3767.5	3162.2	3089.4	3100.2	3127.8	3256.7	3243.9	3269.5
47.5°	5353.0	5326.5	5167.0	4531.2	3762.6	3417.1	3447.6	3460.4	3646.4	3691.7	3760.6
50°	5772.3	5762.5	5619.8	5210.3	4547.0	3900.4	3911.2	3883.6	4162.2	4274.4	4405.3
52.5°	6167.9	6201.4	6096.1	5841.2	5384.5	4533.2	4531.2	4401.3	4777.3	4946.6	5170.0
55°	6525.2	6537.0	6547.8	6484.9	6227.0	5253.6	5234.9	5022.3	5490.8	5666.0	5908.1
57.5°	6860.8	6865.7	6962.2	7091.1	7103.9	6027.2	5992.8	5737.9	6270.3	6395.3	6543.9
60°	7086.2	7108.8	7312.6	7670.8	7827.3	6825.4	6806.7	6546.9	7063.6	7121.6	7094.1
62.5°	6761.4	6899.2	7413.0	8123.5	8510.3	7710.2	7701.3	7457.2	7898.2	7850.9	7614.7
65°	5473.1	5706.4	6609.9	8429.6	9180.6	8698.3	8711.1	8451.3	8755.4	8601.9	8037.9
67.5°	3828.5	4074.6	5143.4	8454.2	9929.5	9858.7	9932.5	9525.0	9665.8	9321.3	8138.3
70°	2647.5	2774.4	3470.3	7924.7	10513.2	11457.0	11455.0	10843.9	10571.2	9649.0	7626.5
72.5°	1780.4	1846.3	2253.8	6287.0	10084.1	12406.8	12349.7	11851.7	10876.3	9024.1	6230.9
75°	750.9	799.2	1043.2	3533.3	7977.9	11350.7	11196.2	10473.8	9663.8	7105.9	3887.6
77.5°	238.2	258.8	411.4	1264.7	4394.4	8532.0	8368.6	6541.0	6477.0	3564.8	1421.2
80°	113.2	131.9	231.3	507.8	1729.2	4640.5	4617.8	2967.3	2786.3	962.5	285.4
82.5°	49.2	58.1	127.9	271.6	773.6	1655.4	1688.9	1009.8	835.6	365.1	87.6
85°	15.7	20.7	59.1	125.0	326.8	411.4	406.5	240.1	336.6	198.8	30.5
87.5°	0.0	0.0	19.7	28.5	33.5	23.6	26.6	20.7	93.5	55.1	10.8
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°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1587.5	1571.8	1544.2	1518.6	1496.0	1473.3	1459.6	1439.9	1437.9	1437.9	1442.8
5°	1598.3	1572.7	1523.5	1471.4	1411.3	1354.3	1297.2	1242.1	1224.3	1211.5	1217.4
7.5°	1629.8	1589.5	1511.7	1412.3	1298.2	1173.2	1085.6	991.1	954.7	935.0	937.9
10°	1675.1	1620.0	1501.9	1327.7	1142.6	972.4	847.4	745.0	705.7	688.9	688.9
12.5°	1725.3	1657.4	1484.2	1222.4	972.4	768.7	646.6	599.4	593.5	593.5	593.5
15°	1785.3	1702.7	1453.7	1098.4	794.2	608.2	564.9	566.9	572.8	576.7	576.7
17.5°	1847.3	1750.9	1405.4	959.6	636.8	547.2	548.2	551.1	556.1	560.0	560.0
20°	1914.3	1799.1	1341.5	812.0	546.2	529.5	532.4	535.4	539.3	541.3	542.3
22.5°	1986.1	1844.4	1265.7	667.3	515.7	514.7	515.7	518.7	523.6	523.6	525.6
25°	2062.9	1894.6	1179.1	562.0	500.0	500.0	501.9	503.9	507.8	507.8	508.8
27.5°	2141.6	1940.8	1087.5	506.9	486.2	485.2	485.2	488.2	490.1	491.1	492.1
30°	2228.2	1995.0	996.0	495.0	475.4	470.4	467.5	469.5	471.4	472.4	474.4
32.5°	2316.8	2047.1	914.3	500.0	464.5	455.7	445.8	443.9	443.9	447.8	450.8
35°	2415.2	2104.2	851.3	516.7	458.6	434.0	418.3	409.4	410.4	416.3	419.3
37.5°	2533.3	2173.1	805.1	531.5	454.7	409.4	383.8	373.0	366.1	373.0	371.0
40°	2687.8	2274.5	771.6	543.3	449.8	380.9	346.4	328.7	315.9	319.9	317.9
42.5°	2915.2	2433.9	758.8	544.3	439.0	347.4	308.1	284.4	265.7	266.7	262.8
45°	3234.1	2685.9	824.8	531.5	415.3	311.0	267.7	236.2	224.4	221.4	217.5
47.5°	3671.0	3053.0	977.3	504.9	380.9	275.6	228.3	201.8	192.9	188.0	185.0
50°	4256.6	3524.4	1146.6	475.4	346.4	242.1	195.9	179.1	173.2	168.3	167.3
52.5°	4935.7	4002.7	1285.4	445.8	312.0	212.6	175.2	165.3	160.4	156.5	155.5
55°	5558.7	4332.4	1277.5	414.3	278.5	189.0	160.4	154.5	148.6	144.7	142.7
57.5°	5946.5	4378.7	1053.1	379.9	240.1	170.3	146.6	142.7	135.8	130.9	129.9
60°	6124.6	4114.9	738.1	334.6	201.8	152.6	131.9	129.9	121.1	114.2	112.2
62.5°	6157.1	3624.8	492.1	278.5	168.3	135.8	117.1	114.2	102.4	90.5	84.6
65°	6025.2	2924.0	340.5	217.5	143.7	118.1	100.4	94.5	81.7	69.9	65.9
67.5°	5607.9	2053.0	237.2	156.5	122.0	93.5	79.7	77.8	67.9	58.1	55.1
70°	4843.2	1170.2	158.5	117.1	96.5	64.0	63.0	65.0	55.1	47.2	43.3
72.5°	3713.4	535.4	98.4	85.6	65.9	43.3	50.2	51.2	42.3	35.4	31.5
75°	2185.9	229.3	62.0	55.1	33.5	28.5	36.4	37.4	28.5	22.6	19.7
77.5°	744.1	86.6	39.4	32.5	16.7	15.7	23.6	23.6	15.7	8.9	6.9
80°	169.3	32.5	19.7	12.8	7.9	6.9	7.9	6.9	3.9	1.0	0.0
82.5°	48.2	12.8	7.9	4.9	3.0	3.0	1.0	0.0	0.0	0.0	0.0
85°	13.8	5.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	1.0	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)