

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: P947370

Luminaire Tested: **GALN-SB2D-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947370
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-SB2D-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18839 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 147.6
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

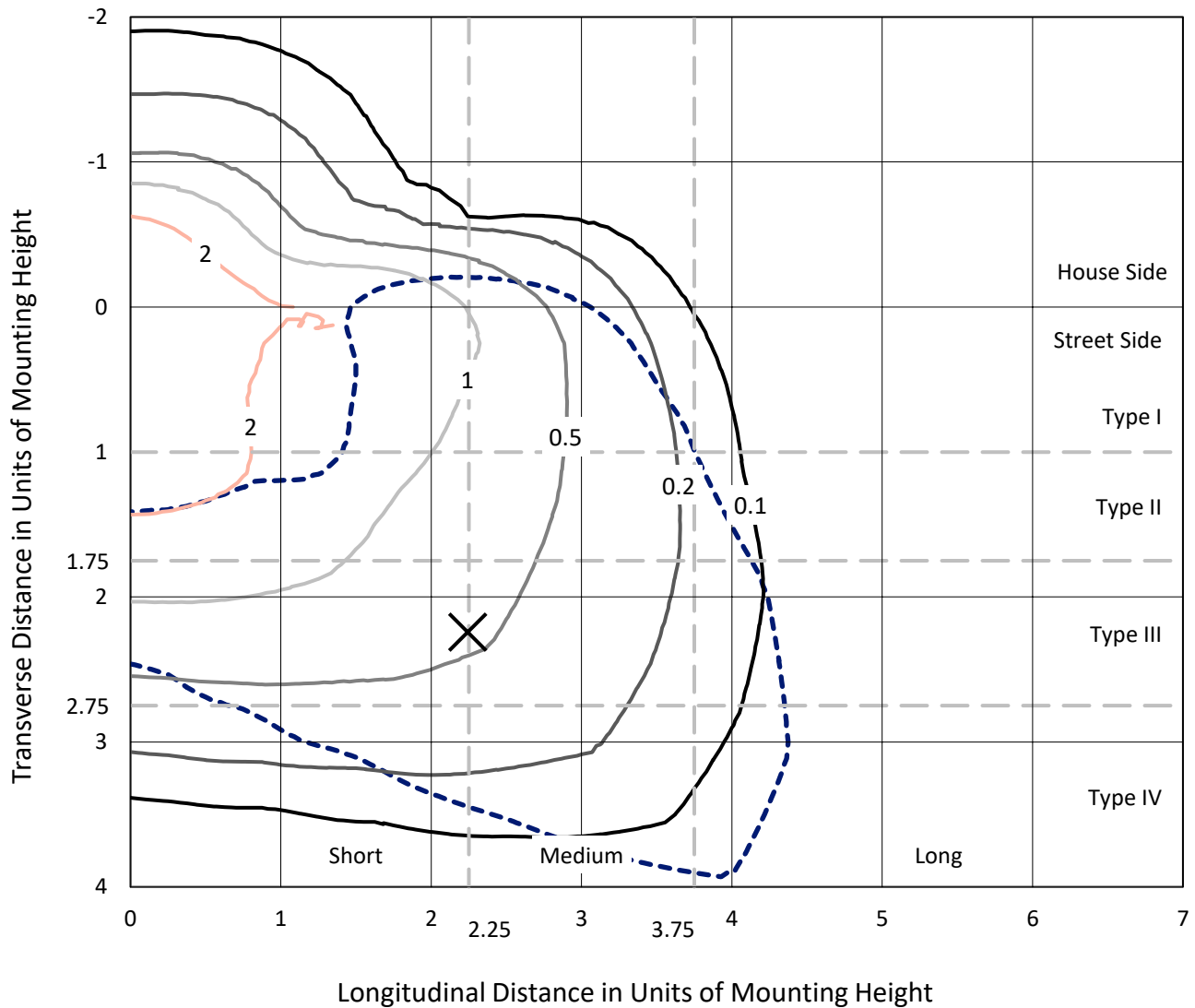


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

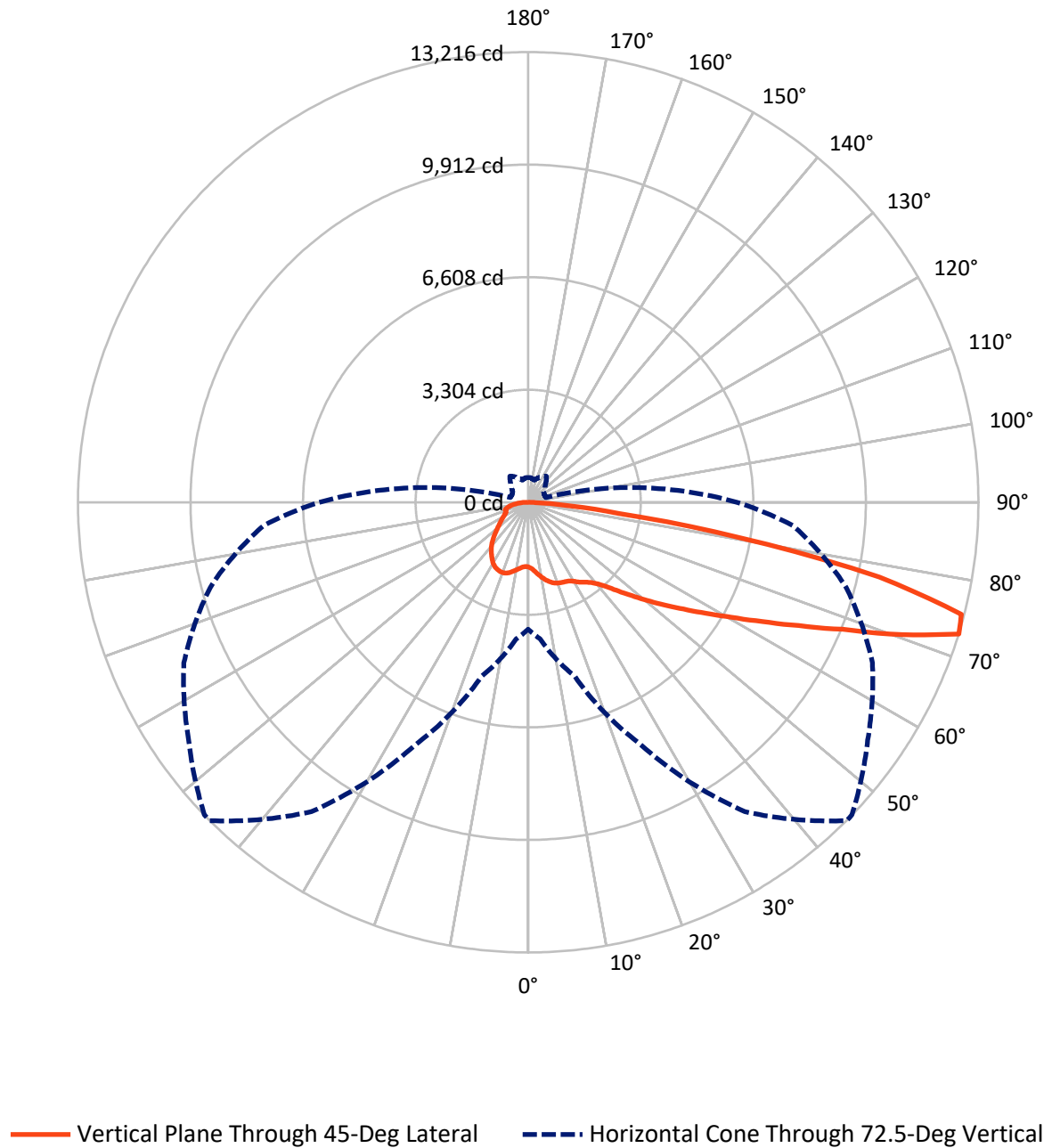


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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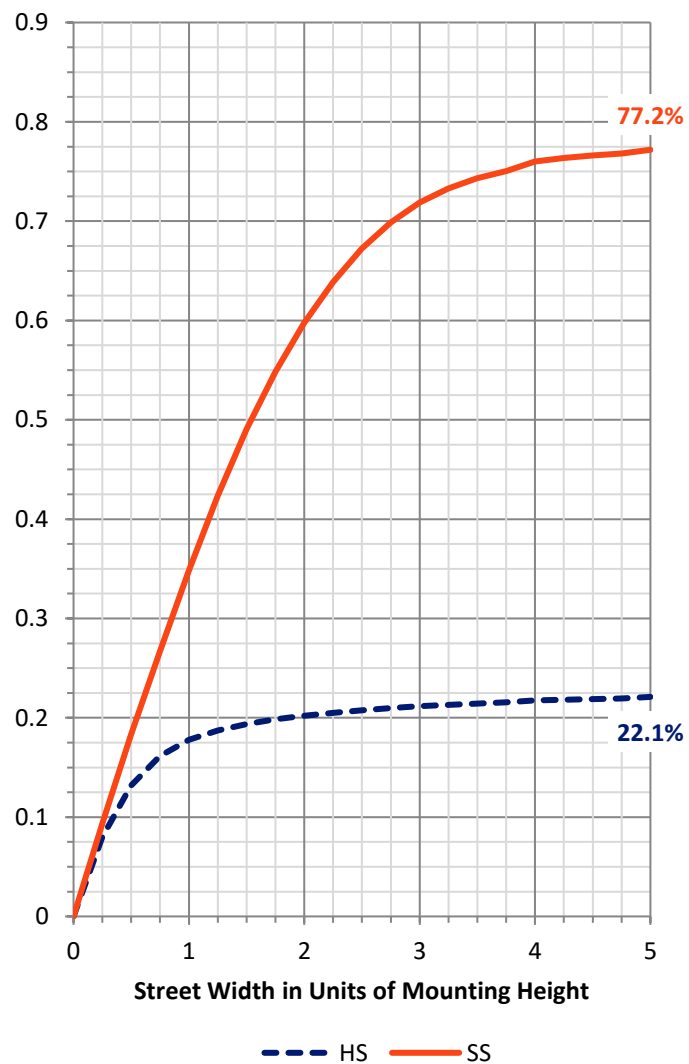
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4258.9	0.0	4258.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14580.1	0.0	14580.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	18839.0	0.0	18839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	1.0
10°-20°	644.9	3.4
20°-30°	1121.9	6.0
30°-40°	1608.3	8.5
40°-50°	2264.6	12.0
50°-60°	3468.7	18.4
60°-70°	5024.9	26.7
70°-80°	4012.6	21.3
80°-90°	499.8	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°	18839.0	100.0
0°-180°	18839.0	100.0

Coefficient of Utilization



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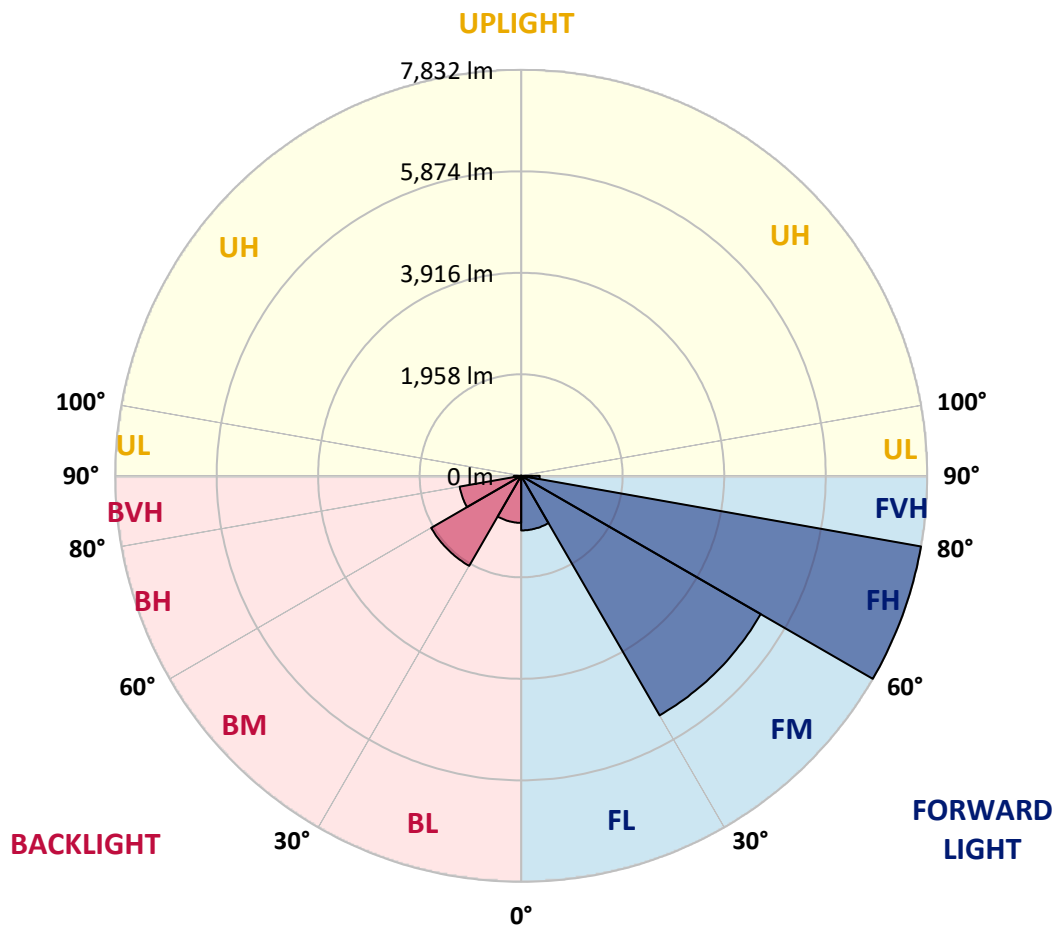
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1053.5	5.6			
FM	(30°-60°)	5336.2	28.3			
FH	(60°-80°)	7831.9	41.6			G4/12000
FVH	(80°-90°)	358.5	1.9			G3/500
BL	(0°-30°)	906.7	4.8	B2/1000		
BM	(30°-60°)	2005.3	10.6	B2/2500		
BH	(60°-80°)	1205.6	6.4	B3/2500		G3/2500
BVH	(80°-90°)	141.2	0.7			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°	45°	46°	55°	65°	75°	85°
0°	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5
2.5°	1974.9	1987.8	1975.9	1965.0	1960.0	1947.1	1946.1	1938.2	1933.2	1919.3	1915.4
5°	2112.9	2129.7	2109.9	2088.1	2068.2	2036.5	2032.5	2009.7	1983.9	1954.1	1937.2
7.5°	2268.7	2283.6	2260.7	2228.0	2193.3	2140.7	2139.7	2098.0	2057.3	2006.7	1977.9
10°	2404.6	2424.5	2393.7	2349.1	2305.4	2245.9	2238.9	2191.3	2139.7	2074.2	2030.5
12.5°	2524.7	2538.6	2508.8	2454.3	2403.6	2344.1	2335.2	2282.6	2225.0	2150.6	2095.0
15°	2620.0	2637.9	2598.2	2539.6	2486.0	2427.5	2419.5	2371.9	2314.3	2235.9	2164.5
17.5°	2682.5	2697.4	2656.7	2591.2	2539.6	2491.0	2485.0	2445.3	2394.7	2315.3	2238.9
20°	2706.3	2722.2	2679.5	2613.0	2565.4	2527.7	2524.7	2495.9	2461.2	2388.8	2311.4
22.5°	2730.2	2745.0	2689.5	2620.0	2578.3	2554.5	2553.5	2534.6	2520.8	2461.2	2385.8
25°	2826.4	2830.4	2756.0	2655.7	2596.2	2575.3	2574.3	2573.4	2579.3	2532.7	2466.2
27.5°	2909.8	2908.8	2845.3	2751.0	2658.7	2615.0	2614.0	2624.0	2642.8	2604.1	2549.5
30°	3031.8	3020.9	2945.5	2847.3	2762.9	2695.4	2689.5	2680.5	2695.4	2664.7	2632.9
32.5°	3290.9	3256.1	3134.1	2959.4	2849.2	2797.6	2789.7	2734.1	2740.1	2721.2	2705.3
35°	3662.0	3616.4	3453.6	3171.8	2956.4	2883.0	2879.0	2808.6	2796.6	2779.8	2785.7
37.5°	4103.7	4047.1	3857.5	3479.4	3141.0	2982.2	2976.3	2912.8	2864.1	2846.3	2880.0
40°	4547.3	4475.8	4319.0	3854.6	3412.9	3148.0	3129.1	3032.8	2977.3	2947.5	3018.9
42.5°	4978.0	4918.4	4784.5	4275.4	3748.4	3390.1	3348.4	3183.7	3142.0	3114.2	3243.2
45°	5359.1	5305.5	5207.2	4724.9	4141.4	3719.6	3678.9	3410.0	3397.1	3397.1	3583.6
47.5°	5668.7	5656.8	5552.6	5183.4	4604.8	4094.7	4024.3	3724.6	3759.3	3812.9	4066.9
50°	6012.1	5979.3	5868.2	5635.0	5149.7	4524.5	4466.9	4110.6	4240.6	4387.5	4765.6
52.5°	6327.7	6345.5	6221.5	6105.4	5765.0	5003.8	4902.6	4566.1	4847.0	5090.1	5584.4
55°	6652.2	6653.2	6618.5	6602.6	6410.1	5533.7	5422.6	5114.0	5560.5	5862.2	6539.1
57.5°	6956.9	6958.9	7010.5	7150.4	7158.3	6145.1	6019.0	5786.8	6353.5	6661.1	7523.6
60°	7228.8	7242.7	7383.6	7711.1	7816.3	6845.7	6726.6	6581.7	7173.2	7482.9	8558.6
62.5°	7320.1	7370.7	7684.3	8149.8	8466.4	7705.2	7588.1	7501.7	8034.6	8322.5	9424.0
65°	7165.3	7281.4	7887.8	8512.0	9135.2	8726.4	8610.3	8516.0	8929.8	9200.7	10134.6
67.5°	6785.2	6935.0	7875.9	8892.1	9947.0	9955.0	9846.8	9625.5	9889.5	9993.7	10365.8
70°	5783.8	6008.1	7182.2	9034.0	10878.9	11635.2	11531.0	10961.3	10847.2	10343.0	9714.8
72.5°	3726.5	4028.2	5288.6	7865.9	11086.3	13216.1	13210.1	12167.1	11149.9	9664.2	7791.5
75°	1359.6	1544.2	2457.2	4937.3	9305.9	13135.7	13174.4	11960.7	10178.3	7465.0	4853.9
77.5°	495.2	541.9	801.9	1897.5	5723.3	10539.5	10619.9	9562.0	7244.7	3746.4	1923.3
80°	260.0	285.8	410.9	736.4	2452.3	6259.2	6385.2	5682.6	3405.0	1128.4	576.6
82.5°	143.9	155.8	230.2	399.9	1104.6	2676.6	2752.0	2244.9	1197.9	478.3	238.2
85°	77.4	82.4	108.2	218.3	539.9	927.9	948.8	670.9	477.4	280.9	115.1
87.5°	22.8	27.8	35.7	69.5	211.4	208.4	213.4	133.0	188.6	141.9	37.7
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°	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5
2.5°	1909.4	1906.4	1895.5	1890.6	1884.6	1883.6	1888.6	1889.6	1890.6	1891.6	1895.5
5°	1927.3	1917.4	1907.4	1901.5	1903.5	1904.5	1914.4	1921.3	1926.3	1930.3	1932.2
7.5°	1962.0	1954.1	1937.2	1936.2	1939.2	1948.1	1961.0	1976.9	1985.8	1992.8	1994.8
10°	2013.6	1998.7	1978.9	1981.9	1987.8	2000.7	2027.5	2040.4	2055.3	2068.2	2065.2
12.5°	2066.2	2053.3	2030.5	2032.5	2042.4	2065.2	2091.0	2106.9	2116.8	2126.8	2130.7
15°	2134.7	2111.9	2087.1	2087.1	2104.9	2129.7	2141.6	2154.5	2160.5	2171.4	2175.4
17.5°	2205.2	2175.4	2142.6	2140.7	2162.5	2174.4	2181.3	2183.3	2185.3	2197.2	2201.2
20°	2275.6	2242.9	2196.2	2192.3	2197.2	2195.2	2194.2	2192.3	2195.2	2210.1	2216.1
22.5°	2345.1	2307.4	2242.9	2225.0	2211.1	2192.3	2191.3	2190.3	2192.3	2207.1	2217.1
25°	2426.5	2380.8	2294.5	2240.9	2194.2	2168.4	2171.4	2172.4	2174.4	2186.3	2202.2
27.5°	2514.8	2464.2	2342.1	2235.9	2151.6	2133.7	2128.7	2131.7	2138.7	2157.5	2176.4
30°	2603.1	2543.6	2385.8	2216.1	2098.0	2073.2	2057.3	2064.2	2086.1	2104.9	2125.8
32.5°	2683.5	2624.0	2420.5	2172.4	2029.5	1990.8	1970.0	1978.9	2000.7	2007.7	2032.5
35°	2777.8	2710.3	2435.4	2102.9	1955.1	1895.5	1867.7	1854.8	1865.8	1858.8	1880.6
37.5°	2883.0	2812.5	2433.4	2011.6	1867.7	1799.3	1760.6	1711.9	1689.1	1665.3	1680.2
40°	3038.8	2937.6	2409.6	1901.5	1759.6	1697.0	1627.6	1545.2	1493.6	1447.0	1449.9
42.5°	3251.2	3111.2	2365.9	1780.4	1637.5	1578.9	1484.7	1388.4	1307.0	1229.6	1222.7
45°	3567.8	3338.5	2311.4	1651.4	1505.5	1447.9	1345.7	1237.6	1145.3	1046.0	1034.1
47.5°	4024.3	3644.2	2259.7	1504.5	1366.6	1314.0	1221.7	1121.4	1012.3	916.0	905.1
50°	4651.5	4082.8	2212.1	1361.6	1229.6	1189.9	1116.5	1014.3	904.1	826.7	821.7
52.5°	5449.4	4679.3	2192.3	1223.7	1101.6	1086.7	1028.1	932.9	828.7	763.2	758.2
55°	6365.4	5392.8	2192.3	1091.7	989.4	994.4	953.7	865.4	775.1	716.5	710.6
57.5°	7300.3	6115.3	2152.6	969.6	894.2	915.0	889.2	811.8	730.4	669.9	660.0
60°	8161.7	6720.7	1991.8	858.4	809.8	842.6	825.7	759.2	660.0	609.3	601.4
62.5°	8823.6	7062.1	1682.2	770.1	740.3	778.1	769.1	689.7	647.1	626.2	619.3
65°	9155.1	7006.5	1286.2	691.7	681.8	740.3	721.5	718.5	684.8	661.0	653.0
67.5°	8951.6	6528.2	932.9	634.2	648.1	705.6	778.1	790.0	727.4	680.8	672.9
70°	8059.5	5662.8	694.7	579.6	605.4	706.6	887.2	826.7	713.6	659.0	650.0
72.5°	6131.2	4222.8	538.9	522.0	549.8	711.6	935.9	809.8	673.9	728.4	722.5
75°	3506.2	2318.3	432.7	451.6	480.3	664.9	911.0	766.1	643.1	668.9	668.9
77.5°	1336.8	891.2	357.3	382.1	386.1	580.6	871.3	763.2	612.3	597.4	544.8
80°	463.5	348.3	295.7	303.7	298.7	516.1	835.6	663.9	501.2	448.6	433.7
82.5°	189.6	173.7	234.2	224.3	212.4	400.9	674.8	542.9	409.9	362.2	358.3
85°	82.4	110.2	154.8	136.0	123.1	277.9	540.9	459.5	346.4	298.7	297.7
87.5°	16.9	41.7	65.5	61.5	63.5	185.6	384.1	326.5	245.1	183.6	143.9
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)