

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: P949490

Luminaire Tested: **GALN-SB4B-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949490
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-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 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: 14361 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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



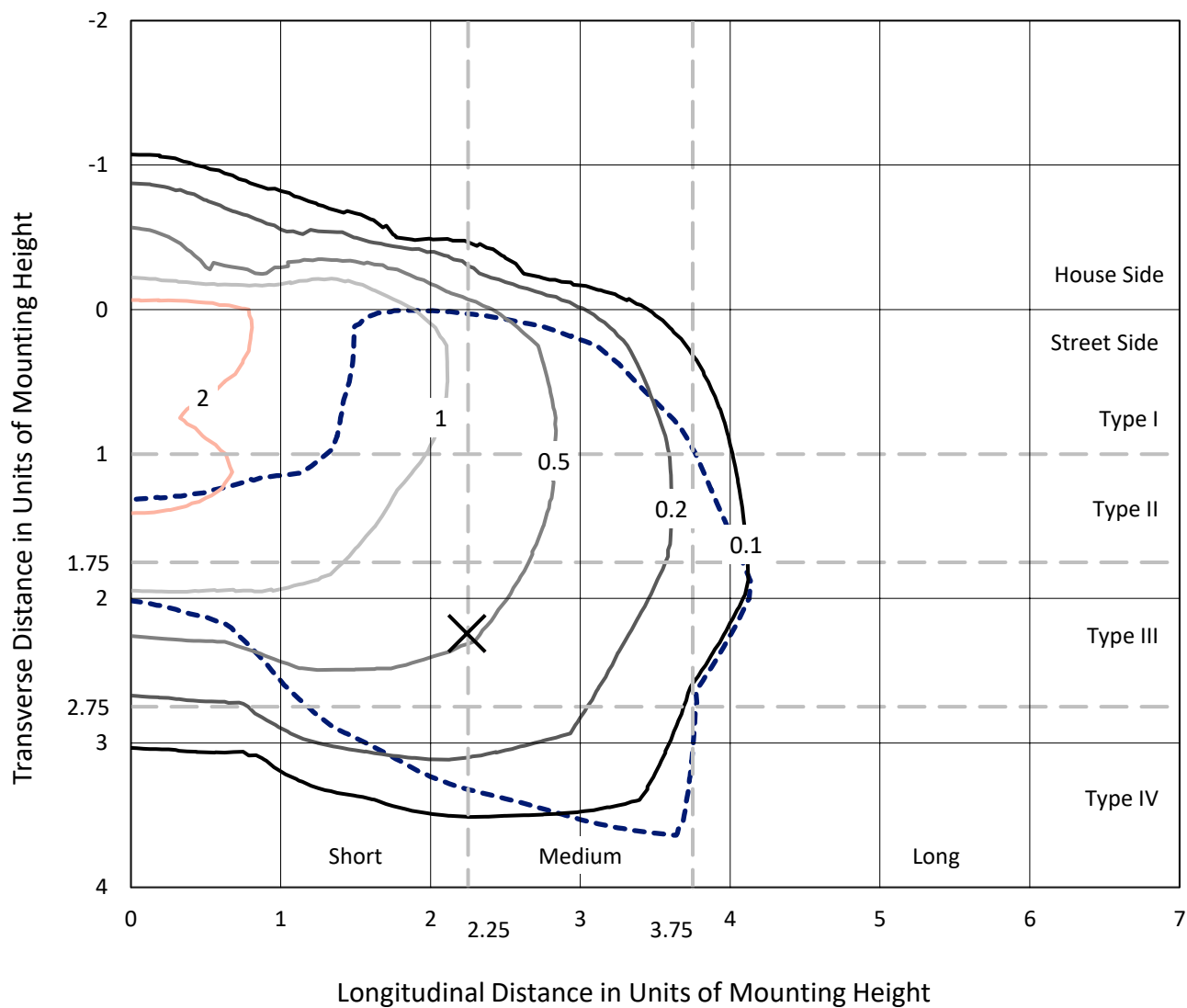
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

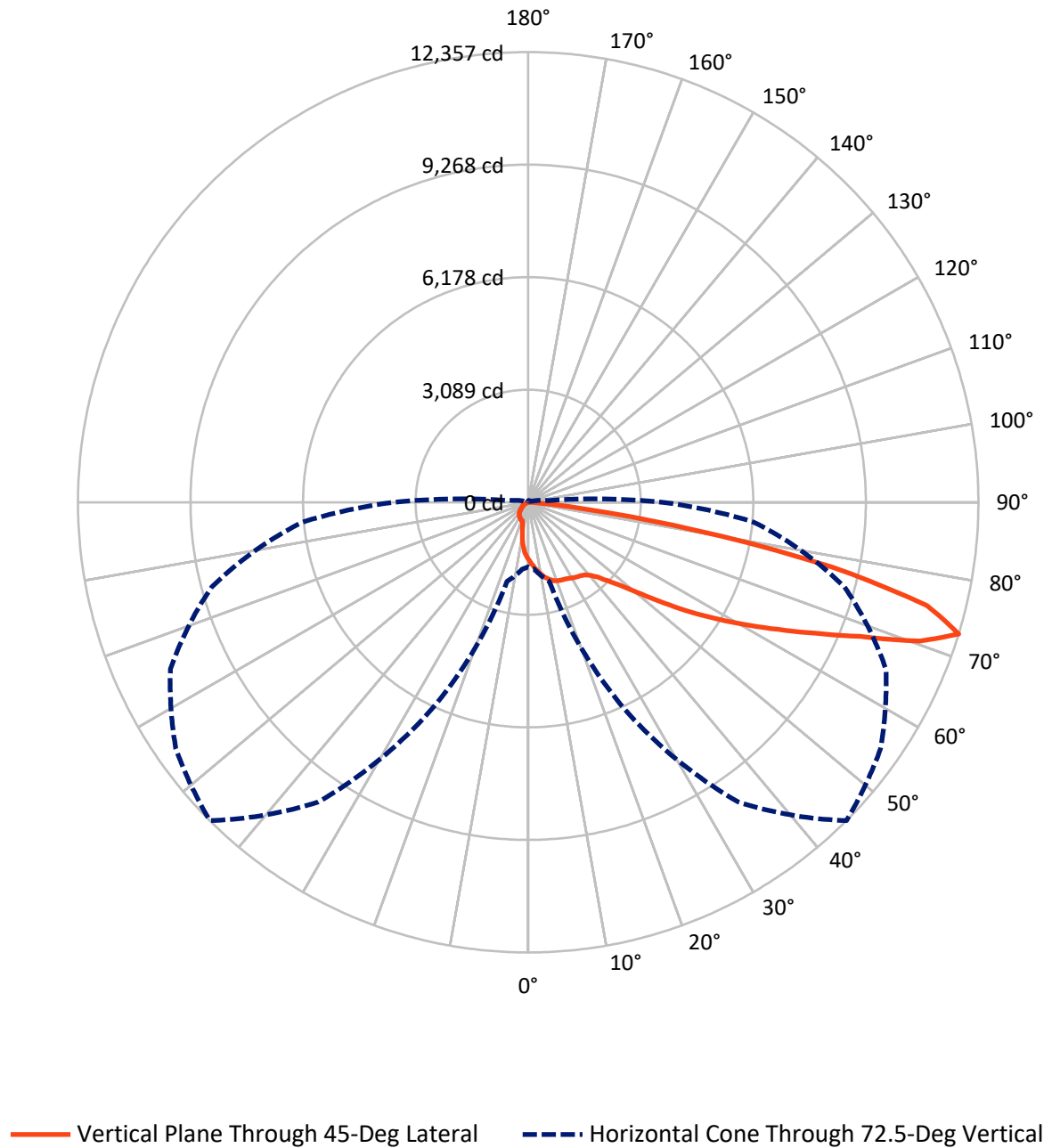
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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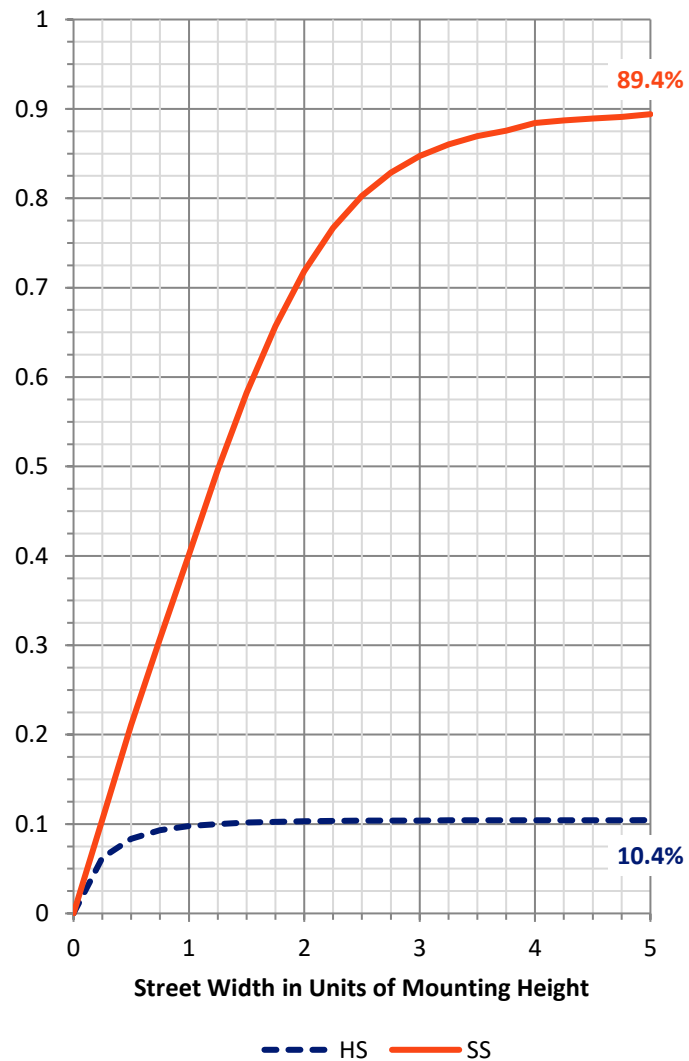
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1508.9	0.0	1508.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	12852.1	0.0	12852.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	14361.0	0.0	14361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	1.0
10°-20°	433.2	3.0
20°-30°	711.4	5.0
30°-40°	1009.0	7.0
40°-50°	1667.7	11.6
50°-60°	2995.9	20.9
60°-70°	4159.9	29.0
70°-80°	3017.5	21.0
80°-90°	218.1	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°	14361.0	100.0
0°-180°	14361.0	100.0

Coefficient of Utilization



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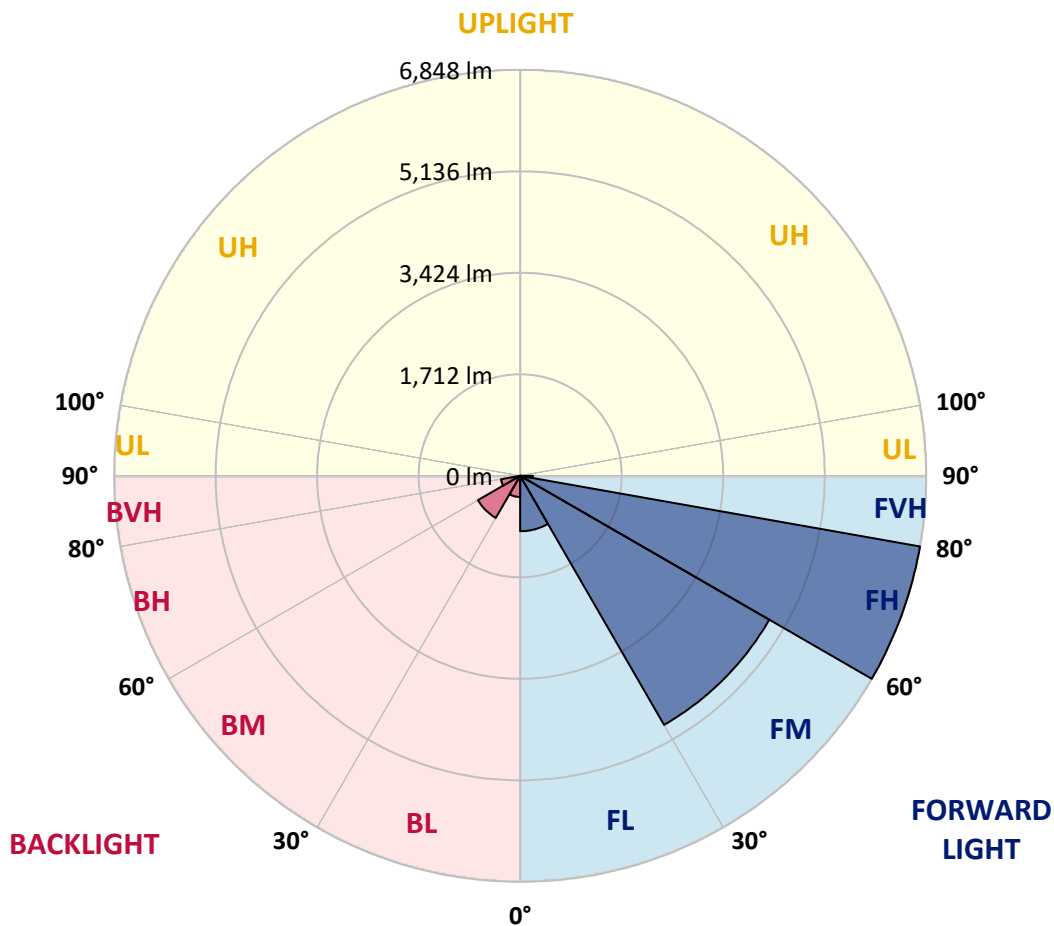
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	935.5	6.5			
FM	(30°-60°)	4851.9	33.8			
FH	(60°-80°)	6848.4	47.7			G3/7500
FVH	(80°-90°)	216.3	1.5			G2/225
BL	(0°-30°)	357.4	2.5	B1/500		
BM	(30°-60°)	820.7	5.7	B1/1000		
BH	(60°-80°)	329.0	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°	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3
2.5°	1718.4	1721.3	1719.3	1707.6	1688.0	1677.2	1671.3	1651.7	1639.0	1616.4	1592.9
5°	1876.2	1887.9	1881.1	1857.5	1820.3	1793.8	1786.0	1745.8	1709.5	1667.4	1618.4
7.5°	2043.8	2049.7	2036.9	2006.5	1956.6	1911.5	1904.6	1848.7	1790.9	1726.2	1659.5
10°	2188.9	2195.7	2176.1	2132.0	2075.2	2019.3	2009.5	1947.7	1879.1	1799.7	1714.4
12.5°	2310.4	2317.3	2291.8	2238.9	2176.1	2118.3	2108.5	2043.8	1968.3	1880.1	1774.2
15°	2402.6	2415.3	2381.0	2324.1	2256.5	2198.7	2193.8	2130.1	2056.5	1958.5	1845.8
17.5°	2456.5	2469.2	2436.9	2368.2	2310.4	2261.4	2255.5	2202.6	2134.0	2039.9	1915.4
20°	2465.3	2477.1	2442.7	2383.0	2334.9	2295.7	2292.8	2254.5	2204.5	2114.4	1990.9
22.5°	2438.8	2453.5	2422.2	2374.1	2340.8	2320.2	2316.3	2294.7	2266.3	2189.8	2061.4
25°	2411.4	2423.1	2399.6	2357.5	2339.8	2337.9	2340.8	2336.9	2331.0	2266.3	2143.8
27.5°	2409.4	2422.2	2395.7	2355.5	2345.7	2366.3	2369.2	2387.9	2392.8	2335.9	2223.2
30°	2426.1	2434.9	2409.4	2367.3	2362.4	2409.4	2410.4	2443.7	2451.6	2394.7	2301.6
32.5°	2462.4	2472.2	2446.7	2384.9	2378.1	2443.7	2446.7	2490.8	2503.5	2457.5	2383.9
35°	2547.6	2559.4	2530.0	2433.9	2409.4	2476.1	2484.9	2536.8	2562.3	2524.1	2469.2
37.5°	2760.3	2726.0	2685.8	2532.9	2481.0	2527.0	2541.8	2602.5	2647.6	2603.5	2571.2
40°	3288.7	3180.9	3055.4	2701.5	2606.4	2635.9	2647.6	2708.4	2770.1	2727.0	2711.3
42.5°	4081.7	3954.3	3752.3	3089.7	2795.6	2810.3	2819.2	2872.1	2959.3	2925.0	2928.9
45°	4788.5	4742.4	4536.5	3752.3	3149.5	3077.0	3087.7	3115.2	3243.6	3230.9	3256.3
47.5°	5331.5	5305.0	5146.2	4513.0	3747.4	3403.4	3433.8	3446.5	3631.8	3676.9	3745.5
50°	5749.1	5739.3	5597.1	5189.4	4528.7	3884.7	3895.5	3868.0	4145.4	4257.2	4387.5
52.5°	6143.1	6176.5	6071.6	5817.7	5362.9	4515.0	4513.0	4383.6	4758.1	4926.7	5149.2
55°	6499.0	6510.7	6521.5	6458.8	6202.0	5232.5	5213.9	5002.1	5468.7	5643.2	5884.4
57.5°	6833.2	6838.1	6934.2	7062.6	7075.3	6003.0	5968.7	5714.8	6245.1	6369.6	6517.6
60°	7057.7	7080.2	7283.2	7640.0	7795.8	6797.9	6779.3	6520.5	7035.2	7093.0	7065.5
62.5°	6734.2	6871.5	7383.1	8090.9	8476.1	7679.2	7670.3	7427.2	7866.4	7819.3	7584.1
65°	5451.1	5683.4	6583.3	8395.7	9143.6	8663.3	8676.1	8417.3	8720.2	8567.3	8005.6
67.5°	3813.1	4058.2	5122.7	8420.2	9889.6	9819.0	9892.5	9486.7	9626.9	9283.8	8105.6
70°	2636.8	2763.3	3456.3	7892.9	10470.9	11410.9	11409.0	10800.2	10528.7	9610.2	7595.8
72.5°	1773.2	1838.9	2244.7	6261.7	10043.5	12356.8	12300.0	11804.0	10832.6	8987.8	6205.9
75°	747.9	796.0	1039.0	3519.0	7945.8	11305.1	11151.2	10431.7	9624.9	7077.3	3871.9
77.5°	237.2	257.8	409.7	1259.6	4376.8	8497.7	8334.9	6514.6	6450.9	3550.4	1415.5
80°	112.7	131.4	230.4	505.8	1722.3	4621.8	4599.3	2955.4	2775.0	958.7	284.3
82.5°	49.0	57.8	127.4	270.5	770.5	1648.8	1682.1	1005.7	832.2	363.7	87.2
85°	15.7	20.6	58.8	124.5	325.4	409.7	404.8	239.2	335.2	198.0	30.4
87.5°	0.0	0.0	19.6	28.4	33.3	23.5	26.5	20.6	93.1	54.9	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°	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3	1573.3
2.5°	1581.1	1565.4	1538.0	1512.5	1490.0	1467.4	1453.7	1434.1	1432.1	1432.1	1437.0
5°	1591.9	1566.4	1517.4	1465.5	1405.7	1348.8	1292.0	1237.1	1219.4	1206.7	1212.6
7.5°	1623.3	1583.1	1505.6	1406.6	1292.9	1168.4	1081.2	987.1	950.8	931.2	934.2
10°	1668.4	1613.5	1495.8	1322.3	1138.1	968.5	844.0	742.0	702.8	686.2	686.2
12.5°	1718.4	1650.7	1478.2	1217.5	968.5	765.6	644.0	597.0	591.1	591.1	591.1
15°	1778.1	1695.8	1447.8	1093.9	791.1	605.8	562.7	564.6	570.5	574.4	574.4
17.5°	1839.9	1743.8	1399.8	955.7	634.2	545.0	546.0	548.9	553.8	557.8	557.8
20°	1906.6	1791.9	1336.1	808.7	544.0	527.4	530.3	533.2	537.2	539.1	540.1
22.5°	1978.1	1837.0	1260.6	664.6	513.6	512.7	513.6	516.6	521.5	521.5	523.4
25°	2054.6	1887.0	1174.3	559.7	498.0	498.0	499.9	501.9	505.8	505.8	506.8
27.5°	2133.0	1933.0	1083.2	504.8	484.2	483.3	483.3	486.2	488.2	489.1	490.1
30°	2219.3	1986.9	992.0	493.1	473.5	468.6	465.6	467.6	469.5	470.5	472.5
32.5°	2307.5	2038.9	910.6	498.0	462.7	453.8	444.0	442.1	442.1	446.0	448.9
35°	2405.5	2095.7	847.9	514.6	456.8	432.3	416.6	407.8	408.8	414.6	417.6
37.5°	2523.1	2164.4	801.8	529.3	452.9	407.8	382.3	371.5	364.6	371.5	369.5
40°	2677.0	2265.3	768.5	541.1	448.0	379.4	345.0	327.4	314.7	318.6	316.6
42.5°	2903.5	2424.1	755.8	542.1	437.2	346.0	306.8	283.3	264.7	265.6	261.7
45°	3221.1	2675.1	821.4	529.3	413.7	309.8	266.6	235.3	223.5	220.6	216.6
47.5°	3656.3	3040.7	973.4	502.9	379.4	274.5	227.4	200.9	192.1	187.2	184.3
50°	4239.5	3510.2	1142.0	473.5	345.0	241.1	195.1	178.4	172.5	167.6	166.6
52.5°	4915.9	3986.6	1280.2	444.0	310.7	211.7	174.5	164.7	159.8	155.9	154.9
55°	5536.4	4315.0	1272.3	412.7	277.4	188.2	159.8	153.9	148.0	144.1	142.1
57.5°	5922.6	4361.1	1048.9	378.4	239.2	169.6	146.1	142.1	135.3	130.4	129.4
60°	6100.0	4098.4	735.2	333.3	200.9	151.9	131.4	129.4	120.6	113.7	111.7
62.5°	6132.4	3610.2	490.1	277.4	167.6	135.3	116.6	113.7	101.9	90.2	84.3
65°	6001.0	2912.3	339.2	216.6	143.1	117.6	100.0	94.1	81.4	69.6	65.7
67.5°	5585.4	2044.8	236.2	155.9	121.5	93.1	79.4	77.4	67.6	57.8	54.9
70°	4823.7	1165.5	157.8	116.6	96.1	63.7	62.7	64.7	54.9	47.1	43.1
72.5°	3698.4	533.2	98.0	85.3	65.7	43.1	50.0	51.0	42.2	35.3	31.4
75°	2177.1	228.4	61.8	54.9	33.3	28.4	36.3	37.2	28.4	22.5	19.6
77.5°	741.1	86.3	39.2	32.3	16.7	15.7	23.5	23.5	15.7	8.8	6.9
80°	168.6	32.3	19.6	12.7	7.8	6.9	7.8	6.9	3.9	1.0	0.0
82.5°	48.0	12.7	7.8	4.9	2.9	2.9	1.0	0.0	0.0	0.0	0.0
85°	13.7	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)