

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: P527400

Luminaire Tested: **GALN-SA2B-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7707 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 82
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

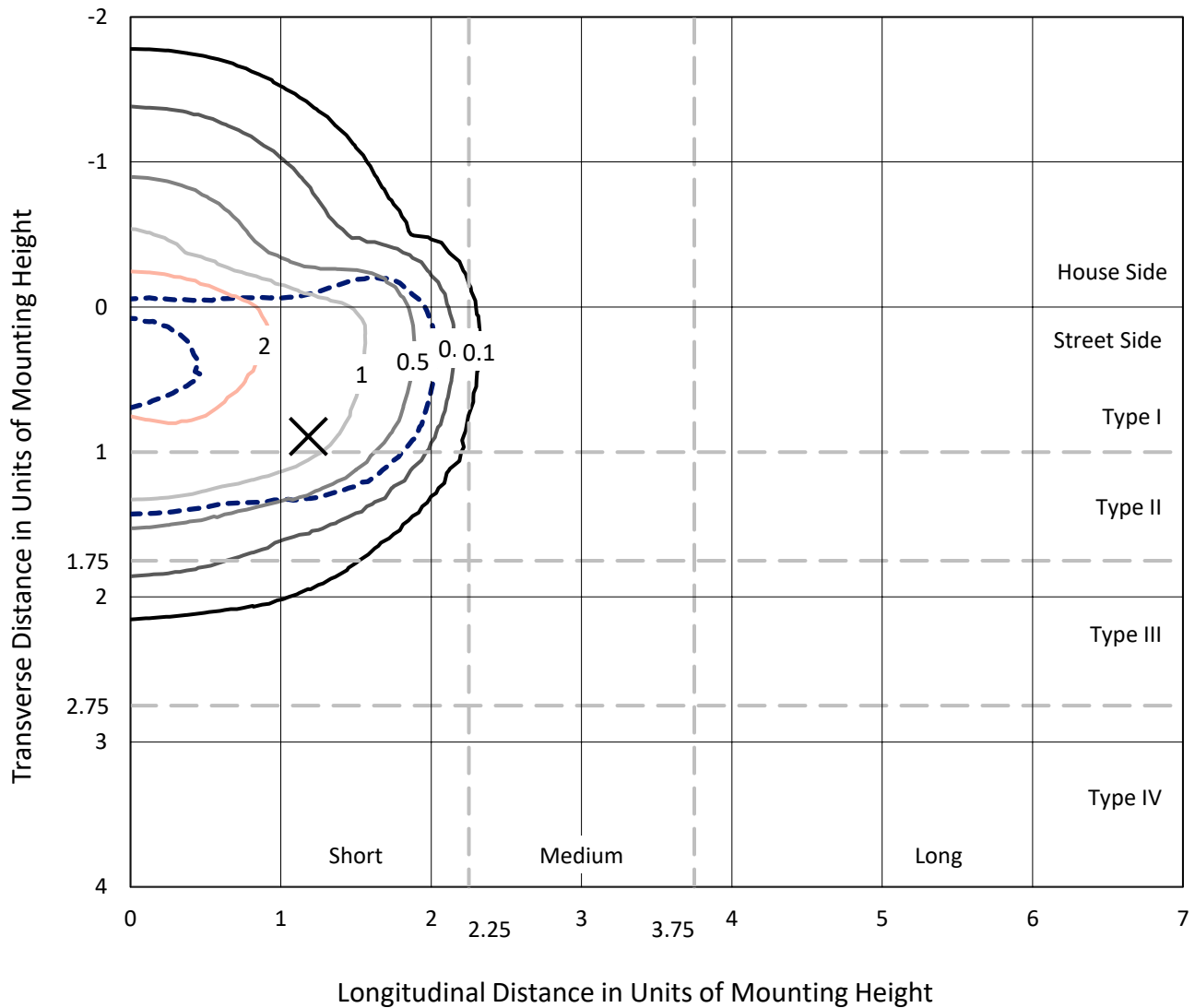


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

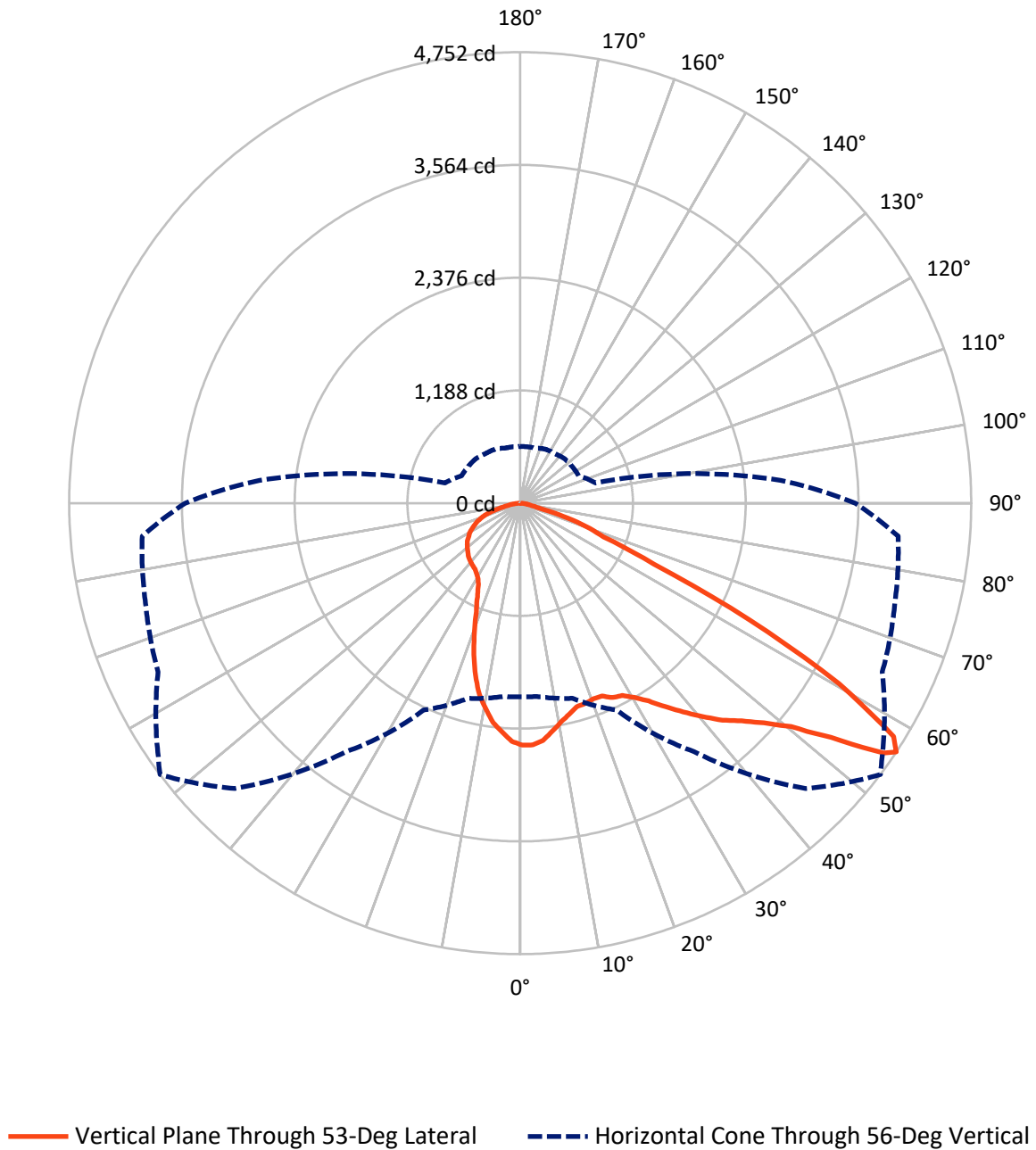


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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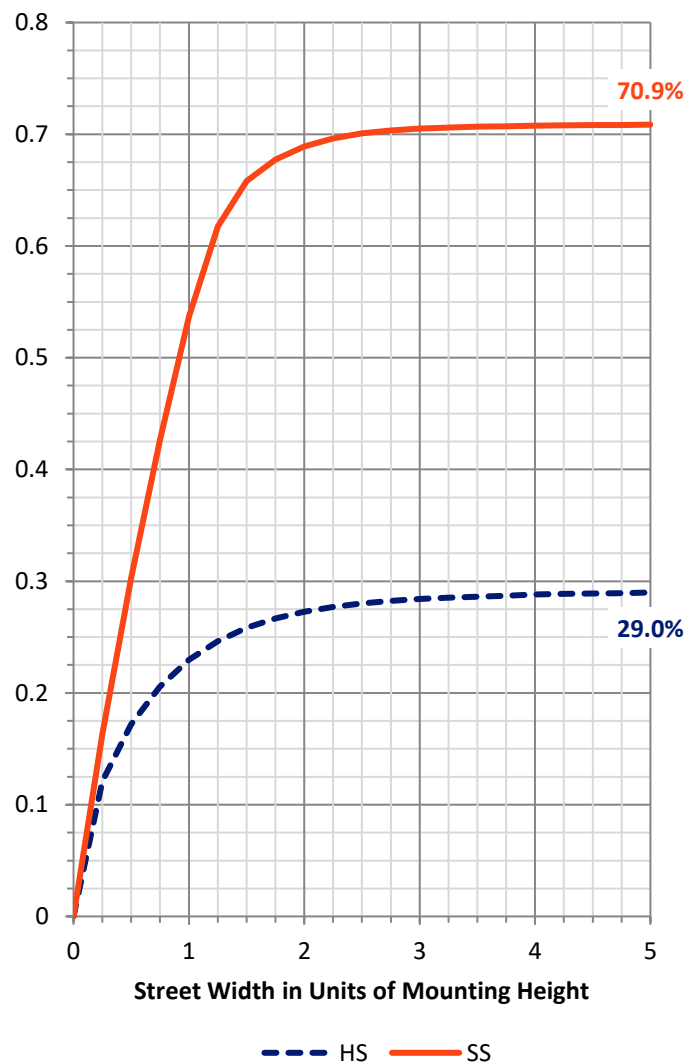
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2249.1	0.0	2249.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	5457.9	0.0	5457.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	7707.0	0.0	7707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.7	2.9
10°-20°	563.8	7.3
20°-30°	831.3	10.8
30°-40°	1187.8	15.4
40°-50°	1634.9	21.2
50°-60°	1932.0	25.1
60°-70°	1029.6	13.4
70°-80°	261.2	3.4
80°-90°	40.7	0.5
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°	7707.0	100.0
0°-180°	7707.0	100.0

Coefficient of Utilization



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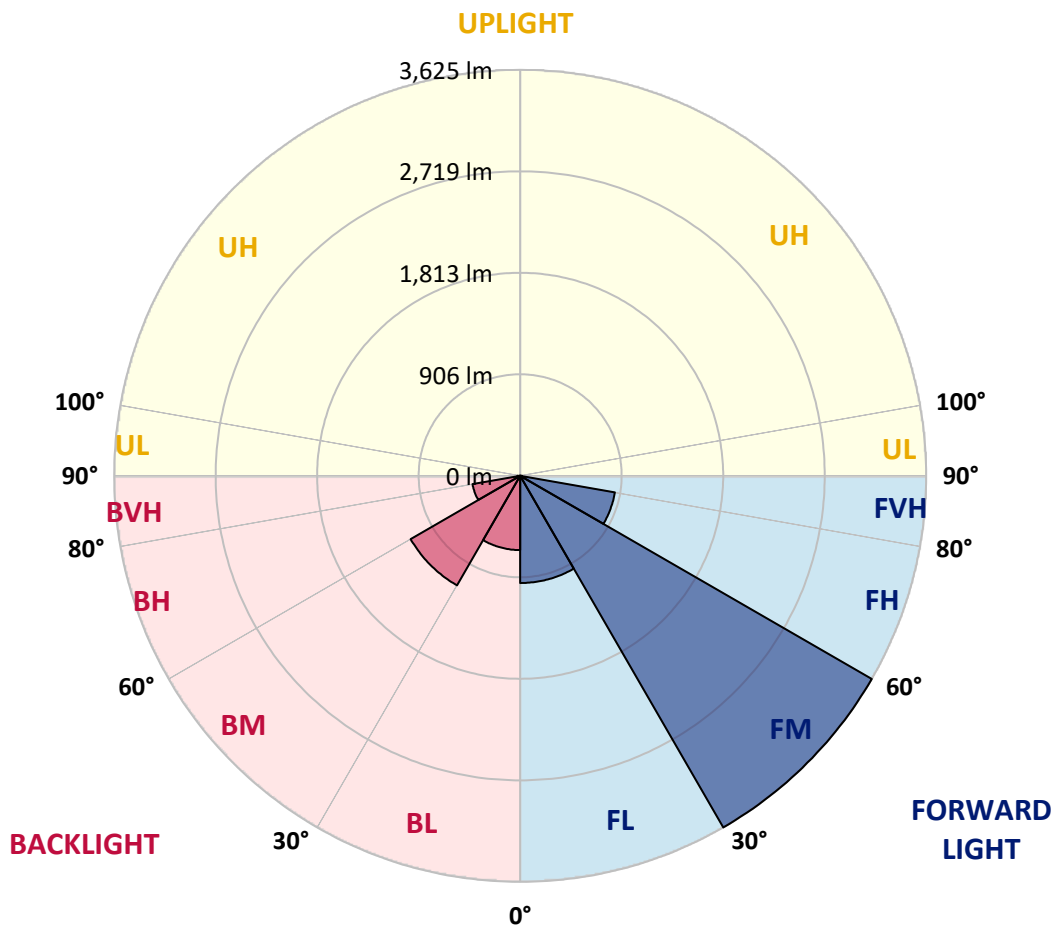
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	957.5	12.4			
FM	(30°-60°)	3625.2	47.0			
FH	(60°-80°)	858.9	11.1			G1/1800
FVH	(80°-90°)	16.4	0.2			G1/100
BL	(0°-30°)	663.3	8.6	B2/1000		
BM	(30°-60°)	1129.4	14.7	B2/2500		
BH	(60°-80°)	432.0	5.6	B1/500		G1/500
BVH	(80°-90°)	24.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2549.8	2549.8	2549.8	2549.8	2549.8	2549.8	2549.8	2549.8	2549.8	2549.8	2549.8
2.5°	2518.1	2496.4	2509.2	2504.3	2544.8	2556.7	2550.8	2555.7	2578.5	2567.6	2544.8
5°	2353.0	2383.7	2389.6	2404.4	2428.2	2474.6	2511.2	2521.1	2532.0	2582.4	2577.5
7.5°	2202.8	2223.5	2212.6	2256.1	2307.6	2382.7	2427.2	2435.1	2534.9	2562.6	2583.4
10°	2107.8	2087.1	2136.5	2148.4	2206.7	2292.7	2346.1	2378.7	2469.7	2579.4	2592.3
12.5°	2019.9	2012.9	2042.6	2076.2	2141.5	2230.4	2284.8	2297.7	2438.1	2553.7	2614.0
15°	1954.6	1946.7	1976.4	2001.1	2077.2	2156.3	2225.5	2262.1	2403.5	2538.9	2595.3
17.5°	1903.2	1902.2	1919.0	1963.5	2041.6	2107.8	2219.6	2221.5	2385.7	2561.6	2611.1
20°	1900.2	1899.2	1902.2	1951.6	2022.8	2103.9	2200.8	2218.6	2385.7	2545.8	2612.1
22.5°	1924.9	1909.1	1926.9	1958.6	2010.0	2110.8	2207.7	2247.2	2443.0	2623.9	2656.6
25°	1964.5	1968.4	1978.3	1989.2	2018.9	2126.6	2269.0	2301.6	2510.2	2691.2	2717.9
27.5°	2036.7	2034.7	2038.6	2044.6	2070.3	2141.5	2293.7	2377.8	2650.6	2810.8	2784.1
30°	2142.4	2135.5	2151.3	2172.1	2148.4	2188.9	2375.8	2439.0	2781.1	2931.4	2858.2
32.5°	2238.3	2264.1	2293.7	2302.6	2273.9	2281.8	2484.5	2548.8	2889.9	3079.7	2949.2
35°	2358.0	2378.7	2418.3	2446.0	2441.0	2417.3	2632.8	2717.9	3047.1	3188.5	3045.1
37.5°	2474.6	2499.4	2564.6	2646.7	2601.2	2590.3	2791.0	2861.2	3095.5	3246.8	3115.3
40°	2662.5	2661.5	2774.2	2816.7	2857.3	2838.5	2955.1	2978.9	3121.2	3233.9	3117.3
42.5°	2883.0	2869.1	2983.8	3050.0	3102.4	3104.4	3126.2	3118.3	3133.1	3168.7	3096.5
45°	3092.6	3122.2	3237.9	3356.5	3408.9	3414.9	3270.5	3255.7	3153.9	3149.9	3057.0
47.5°	3348.6	3355.5	3450.5	3606.7	3728.3	3686.7	3457.4	3424.8	3244.8	3275.5	3123.2
50°	3363.5	3414.9	3499.9	3683.8	4057.5	4046.6	3699.6	3638.3	3391.1	3453.4	3308.1
52.5°	3053.0	3041.1	3142.0	3442.5	4032.8	4404.5	4101.0	3954.7	3705.5	3658.1	3607.7
55°	2326.3	2354.0	2443.0	2746.5	3501.9	4409.5	4647.7	4528.1	4041.7	3960.6	3902.3
56°	2040.6	2044.6	2128.6	2405.4	3195.4	4252.3	4751.5	4654.7	4208.8	4085.2	3996.2
57.5°	1691.6	1668.9	1712.4	1863.6	2697.1	3920.1	4637.8	4732.8	4404.5	4219.6	4096.1
60°	1331.7	1326.8	1309.0	1336.7	1704.5	2953.2	3860.8	4074.3	4384.8	4093.1	3923.0
62.5°	1087.5	1062.8	1098.4	1138.0	1184.4	1832.0	2712.9	2838.5	3481.1	3267.6	2947.2
65°	843.3	831.5	876.0	1004.5	1032.2	1163.7	1545.3	1642.2	2055.4	2018.9	1777.6
67.5°	580.3	582.3	620.9	816.6	957.0	945.2	946.2	996.6	1072.7	796.9	694.0
70°	367.8	366.8	387.6	526.0	770.2	778.1	738.5	723.7	686.1	415.2	440.0
72.5°	236.3	229.4	240.2	290.7	398.4	460.7	474.6	483.5	397.4	326.3	353.9
75°	133.5	126.5	122.6	135.4	157.2	181.9	199.7	205.6	230.4	247.2	262.0
77.5°	40.5	36.6	44.5	59.3	78.1	104.8	127.5	131.5	155.2	175.0	189.8
80°	17.8	19.8	27.7	39.5	55.4	74.2	90.0	95.9	111.7	126.5	130.5
82.5°	10.9	11.9	18.8	26.7	38.6	52.4	64.3	66.2	82.1	93.9	96.9
85°	4.0	4.9	9.9	15.8	24.7	33.6	33.6	36.6	33.6	33.6	36.6
87.5°	0.0	0.0	1.0	2.0	2.0	3.0	4.0	4.0	4.9	5.9	6.9
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°	2549.8	2549.8	2549.8	2549.8	2549.8	2549.8	2549.8	2549.8	2549.8	2549.8	2549.8
2.5°	2556.7	2551.8	2543.8	2515.2	2512.2	2503.3	2453.9	2446.0	2453.9	2430.2	2432.1
5°	2551.8	2566.6	2507.3	2478.6	2425.2	2386.6	2342.2	2319.4	2278.9	2253.2	2281.8
7.5°	2573.5	2567.6	2493.4	2431.1	2351.1	2253.2	2175.1	2130.6	2059.4	2039.6	2054.5
10°	2565.6	2534.0	2447.0	2364.9	2213.6	2127.6	2001.1	1878.5	1811.2	1776.6	1771.7
12.5°	2554.7	2545.8	2400.5	2259.1	2099.9	1919.0	1741.0	1625.4	1515.6	1468.2	1475.1
15°	2567.6	2492.4	2313.5	2134.5	1923.0	1685.7	1493.9	1344.6	1268.5	1237.8	1237.8
17.5°	2561.6	2466.7	2272.0	1995.1	1727.2	1446.4	1235.8	1145.9	1114.2	1114.2	1123.1
20°	2564.6	2483.5	2187.9	1855.7	1495.9	1218.0	1064.8	1032.2	1046.0	1051.0	1055.9
22.5°	2581.4	2428.2	2105.9	1702.5	1281.3	1042.1	966.9	967.9	992.6	1019.3	1014.4
25°	2602.2	2406.4	2006.0	1550.2	1117.2	956.0	932.3	929.3	948.1	962.0	964.0
27.5°	2584.4	2368.9	1904.2	1360.4	982.7	898.7	893.8	895.7	901.7	929.3	920.5
30°	2642.7	2379.7	1776.6	1201.2	908.6	879.9	874.0	871.0	879.9	887.8	880.9
32.5°	2714.9	2341.2	1681.7	1048.0	872.0	866.1	854.2	850.3	855.2	847.3	851.2
35°	2746.5	2334.2	1558.1	938.2	843.3	838.4	831.5	830.5	831.5	824.6	818.6
37.5°	2764.3	2366.9	1416.8	887.8	825.5	830.5	814.7	812.7	794.9	798.8	801.8
40°	2795.0	2316.5	1302.1	839.4	814.7	804.8	790.9	788.0	776.1	769.2	776.1
42.5°	2750.5	2301.6	1189.4	818.6	798.8	788.0	778.1	761.3	757.3	751.4	747.4
45°	2714.9	2216.6	1088.5	792.9	780.1	774.1	755.3	737.5	722.7	728.6	719.8
47.5°	2741.6	2186.9	988.7	771.2	754.4	747.4	728.6	714.8	700.0	693.1	691.1
50°	2848.4	2242.3	904.6	755.3	732.6	728.6	703.9	688.1	674.3	669.3	671.3
52.5°	3103.4	2393.6	847.3	722.7	711.8	694.0	680.2	660.4	651.5	635.7	645.6
55°	3426.7	2639.7	832.5	692.1	686.1	670.3	651.5	636.7	619.9	607.0	604.1
56°	3530.5	2757.4	820.6	680.2	670.3	661.4	636.7	627.8	601.1	598.1	596.2
57.5°	3614.6	2861.2	822.6	657.5	647.6	639.7	624.8	603.1	585.3	574.4	579.4
60°	3424.8	2678.3	785.0	622.9	620.9	606.1	585.3	575.4	553.7	540.8	537.8
62.5°	2545.8	1818.2	636.7	578.4	577.4	561.6	537.8	527.0	523.0	505.2	505.2
65°	1466.2	1139.9	550.7	541.8	533.9	518.1	494.3	485.4	475.6	469.6	464.7
67.5°	625.8	591.2	500.3	499.3	490.4	470.6	446.9	433.0	420.2	408.3	414.3
70°	453.8	460.7	451.8	446.9	436.0	411.3	390.5	373.7	353.9	346.0	352.0
72.5°	359.9	374.7	387.6	388.5	375.7	347.0	324.3	301.5	279.8	268.9	273.9
75°	272.9	282.8	295.6	298.6	279.8	260.0	238.3	214.5	197.7	184.9	186.9
77.5°	196.7	194.8	206.6	204.7	195.8	181.9	162.1	140.4	121.6	109.7	110.7
80°	134.5	137.4	144.3	143.4	132.5	123.6	108.8	91.0	77.1	67.2	65.3
82.5°	93.9	98.9	104.8	99.9	91.0	82.1	71.2	58.3	47.5	39.5	37.6
85°	33.6	38.6	44.5	47.5	50.4	48.4	40.5	32.6	23.7	19.8	18.8
87.5°	6.9	7.9	8.9	8.9	8.9	7.9	6.9	6.9	5.9	3.0	3.0
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)