

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: P946642

Luminaire Tested: **GALN-SB2B-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10382 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.9
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

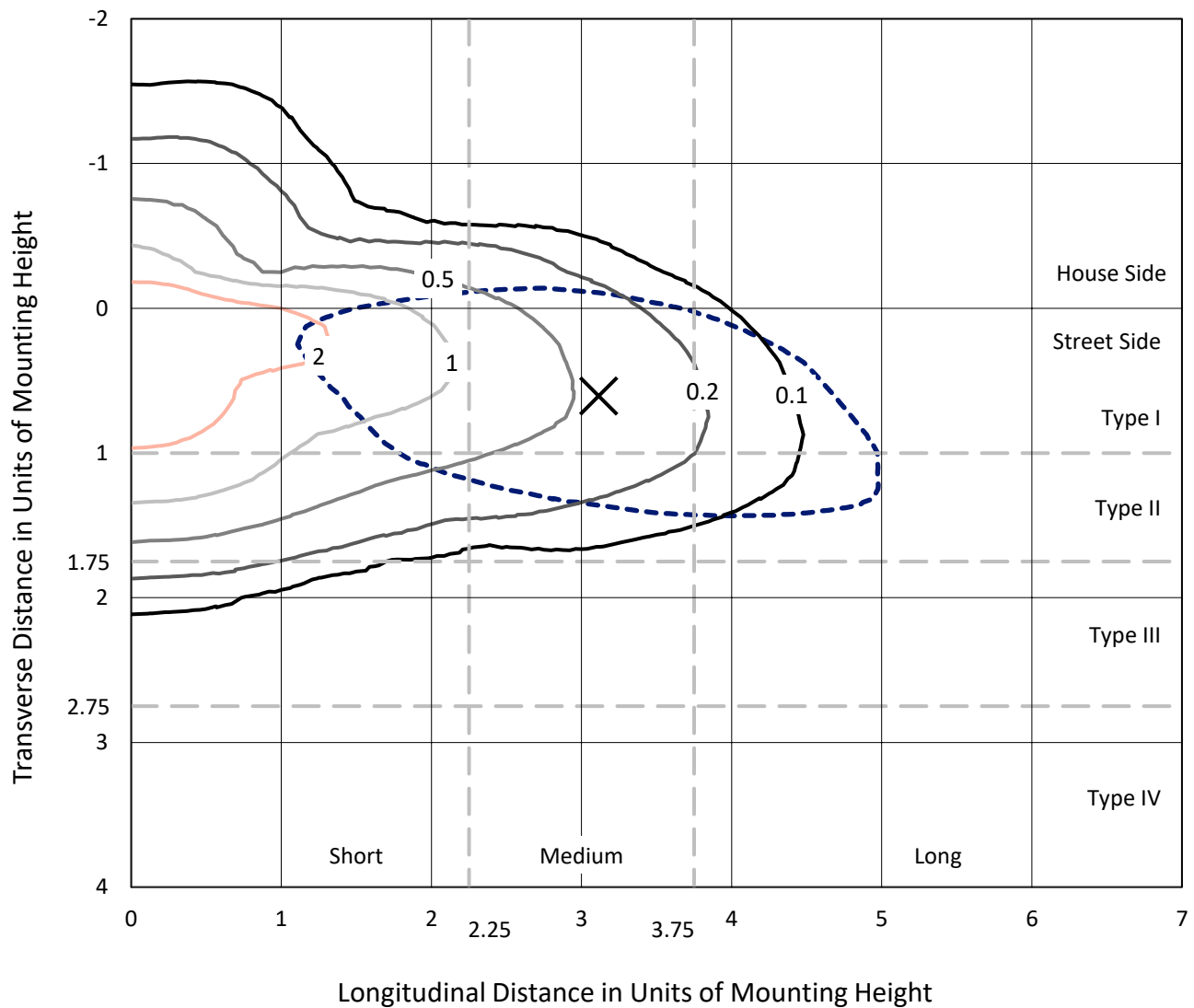


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Iso-Footcandle Lines of Horizontal Illumination

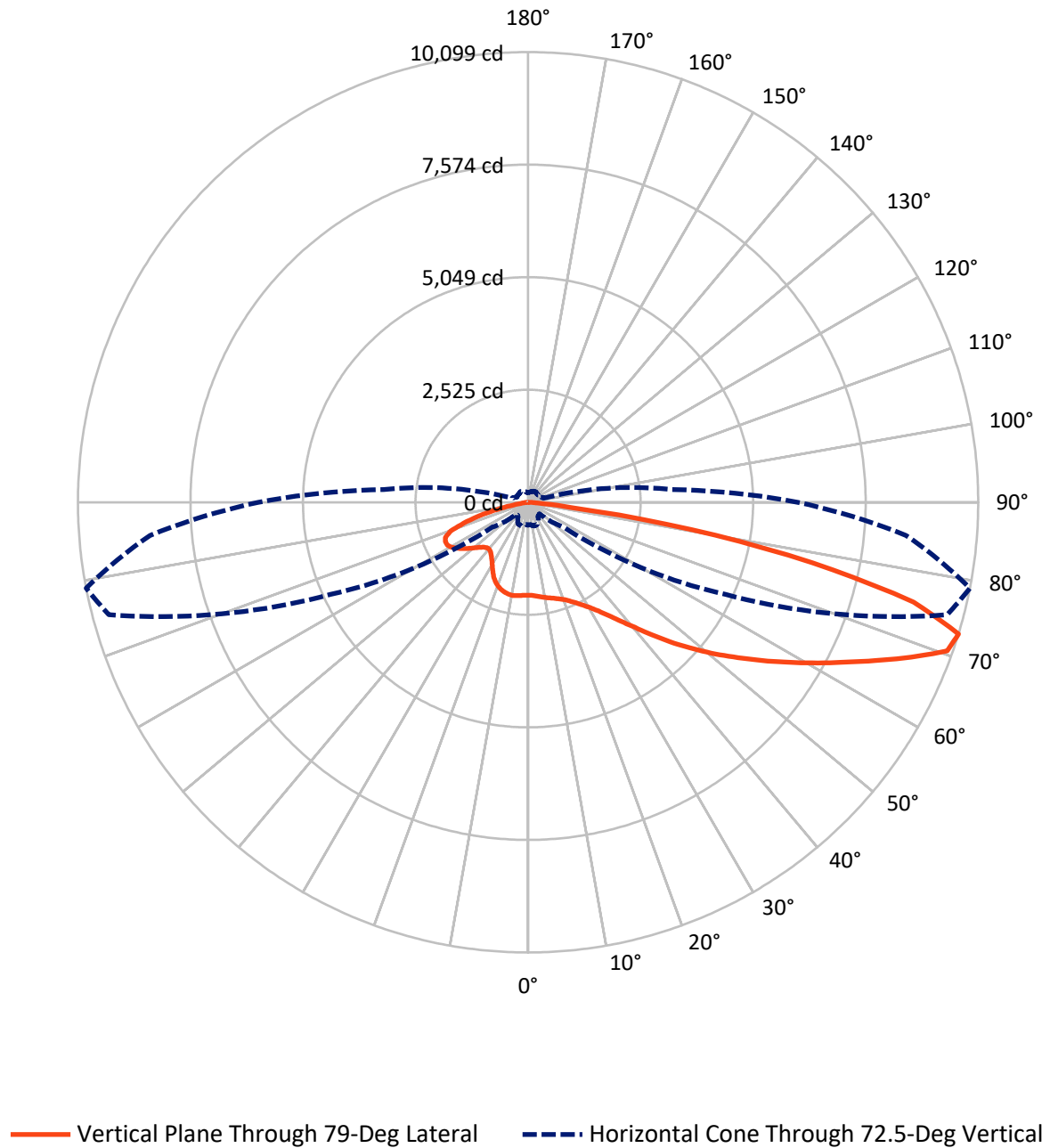
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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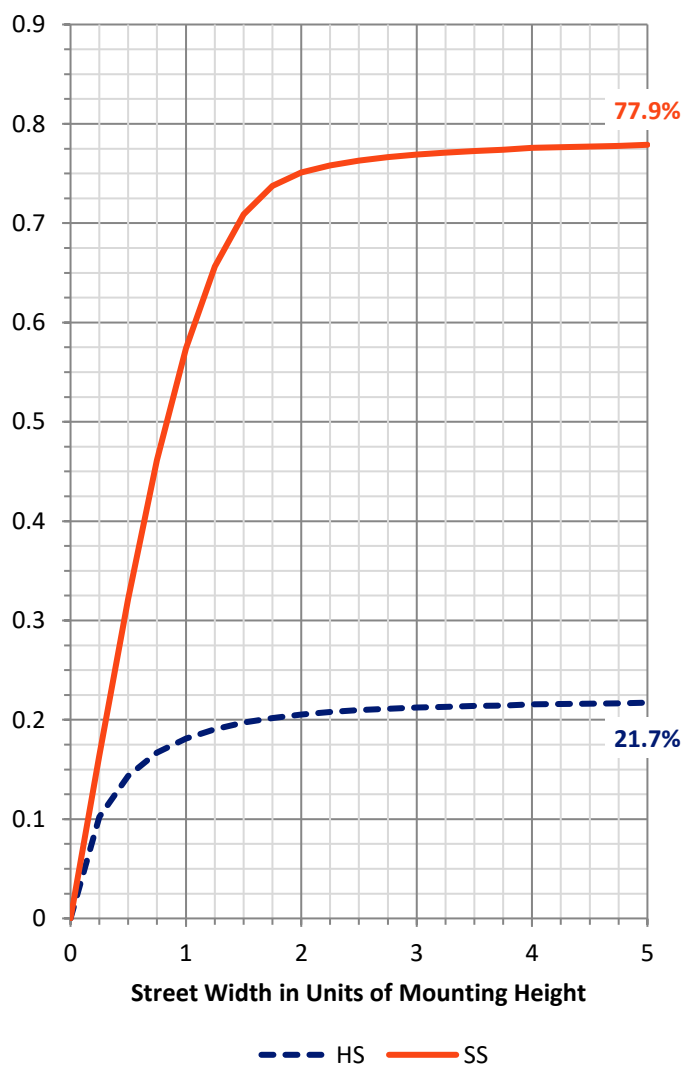
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2284.6	0.0	2284.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	8097.4	0.0	8097.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	10382.0	0.0	10382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	1.8
10°-20°	494.6	4.8
20°-30°	798.1	7.7
30°-40°	1197.8	11.5
40°-50°	1699.2	16.4
50°-60°	2145.8	20.7
60°-70°	2179.4	21.0
70°-80°	1485.3	14.3
80°-90°	192.7	1.9
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°	10382.0	100.0
0°-180°	10382.0	100.0

Coefficient of Utilization



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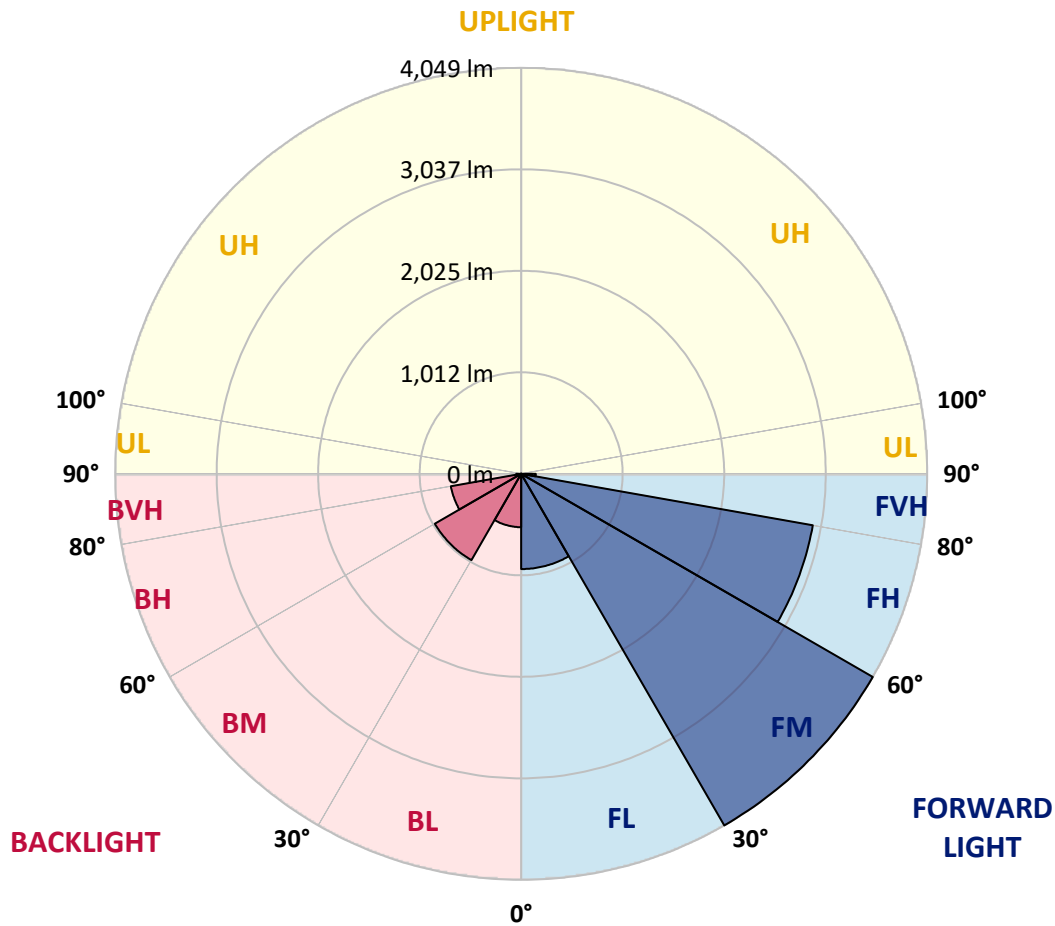
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	949.7	9.1			
FM	(30°-60°)	4049.2	39.0			
FH	(60°-80°)	2953.3	28.4			G2/5000
FVH	(80°-90°)	145.2	1.4			G2/225
BL	(0°-30°)	532.2	5.1	B2/1000		
BM	(30°-60°)	993.6	9.6	B1/1000		
BH	(60°-80°)	711.4	6.9	B2/1000		G2/1000
BVH	(80°-90°)	47.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2084.1	2084.1	2084.1	2084.1	2084.1	2084.1	2084.1	2084.1	2084.1	2084.1	2084.1
2.5°	2085.2	2075.3	2081.3	2079.1	2081.9	2085.2	2086.3	2087.9	2093.4	2092.9	2092.3
5°	2080.8	2070.9	2079.1	2076.4	2083.5	2091.2	2097.8	2103.9	2112.6	2116.5	2111.0
7.5°	2071.5	2064.9	2073.1	2081.3	2094.5	2106.1	2115.4	2129.1	2141.8	2143.9	2147.8
10°	2017.1	2012.1	2031.4	2052.8	2089.0	2120.3	2140.7	2156.6	2170.3	2172.5	2178.0
12.5°	1960.5	1954.5	1975.9	2005.0	2063.8	2120.3	2163.2	2184.0	2196.1	2203.3	2211.5
15°	1951.2	1946.2	1958.3	1983.6	2032.5	2105.5	2178.5	2217.0	2227.4	2235.7	2239.0
17.5°	1996.2	1986.9	1991.8	2000.6	2029.2	2091.8	2190.6	2254.3	2270.3	2279.0	2279.0
20°	2100.6	2087.4	2079.7	2062.1	2057.2	2094.0	2189.5	2299.4	2320.2	2331.2	2334.0
22.5°	2239.5	2230.7	2214.2	2169.8	2121.4	2120.9	2210.4	2357.0	2396.0	2406.4	2399.9
25°	2407.5	2394.4	2373.5	2313.1	2220.3	2174.2	2245.5	2430.6	2496.0	2498.7	2479.5
27.5°	2600.9	2581.1	2552.5	2472.9	2347.7	2257.6	2299.4	2515.2	2610.7	2609.6	2570.1
30°	2804.6	2784.8	2754.6	2658.0	2500.4	2370.2	2374.0	2606.3	2746.9	2740.9	2673.3
32.5°	2953.4	2938.6	2932.6	2857.9	2676.1	2503.1	2459.7	2707.4	2915.0	2909.5	2815.0
35°	3067.6	3048.4	3055.6	3017.7	2867.7	2651.9	2564.6	2827.7	3119.3	3118.7	3001.2
37.5°	3180.8	3163.7	3169.8	3144.5	3045.1	2840.8	2692.6	2974.8	3372.4	3384.5	3226.4
40°	3284.0	3265.9	3290.1	3266.4	3183.0	3041.8	2838.1	3141.2	3665.7	3688.8	3498.7
42.5°	3346.1	3331.8	3371.9	3372.4	3302.7	3211.5	2997.9	3324.7	4005.1	4056.7	3833.7
45°	3367.5	3362.5	3423.0	3435.6	3408.7	3309.8	3141.8	3524.6	4370.8	4463.1	4215.4
47.5°	3344.4	3335.1	3418.6	3465.2	3486.7	3356.0	3261.0	3740.9	4744.3	4879.3	4631.7
50°	3228.0	3209.9	3334.0	3432.3	3508.6	3386.2	3381.2	3990.8	5168.8	5316.5	5050.1
52.5°	3018.8	3005.0	3146.2	3317.0	3460.3	3401.0	3516.3	4263.7	5571.8	5763.0	5479.0
55°	2751.3	2733.2	2888.6	3111.6	3340.0	3396.0	3651.4	4569.1	6047.4	6241.3	5922.2
57.5°	2327.4	2291.1	2487.7	2751.3	3144.0	3390.0	3792.0	4872.8	6530.7	6763.0	6395.0
60°	1709.0	1655.2	1896.3	2208.7	2760.7	3331.2	3966.1	5213.2	7110.6	7319.8	6911.3
62.5°	995.1	963.8	1121.4	1413.0	2080.8	2985.3	4063.8	5609.2	7680.6	7900.3	7418.7
65°	772.7	763.9	777.6	800.1	1158.2	2235.1	3762.3	5995.3	8405.5	8559.3	7947.5
67.5°	706.8	700.2	706.2	663.9	587.6	1245.0	2976.5	6093.0	9182.1	9275.4	8410.5
70°	628.2	620.6	640.3	604.1	462.4	566.2	1923.2	5738.2	9799.9	9975.1	8762.5
72.5°	511.8	503.0	549.2	532.7	389.4	363.5	966.0	4895.3	9735.1	10098.6	8510.4
75°	393.2	388.3	443.2	456.9	317.4	286.1	463.5	3638.8	8567.0	8933.3	7334.7
77.5°	305.3	301.5	329.5	379.5	255.9	221.9	285.0	2308.1	6456.0	6520.3	5054.5
80°	229.0	218.0	243.8	293.8	199.3	162.0	193.3	1346.0	4080.9	3699.2	2200.0
82.5°	143.3	137.8	159.3	196.1	140.6	111.5	125.8	743.6	1635.4	963.2	424.5
85°	81.8	79.6	86.8	112.0	76.3	64.3	71.9	328.4	298.7	205.4	128.0
87.5°	33.0	31.9	39.5	50.0	28.0	23.6	25.3	79.1	65.9	61.0	42.3
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°	2084.1	2084.1	2084.1	2084.1	2084.1	2084.1	2084.1	2084.1	2084.1	2084.1	2084.1
2.5°	2090.1	2090.1	2082.4	2070.4	2056.6	2047.8	2033.6	2029.7	2014.9	2010.5	2017.6
5°	2115.4	2111.0	2087.4	2053.3	2006.7	1963.8	1916.6	1886.9	1845.2	1830.4	1841.4
7.5°	2147.2	2135.2	2094.5	2019.8	1922.1	1826.0	1726.0	1650.2	1577.8	1551.9	1555.2
10°	2176.3	2159.3	2090.1	1959.4	1790.3	1623.9	1464.6	1353.1	1268.6	1234.0	1241.7
12.5°	2205.5	2174.2	2061.0	1858.9	1603.0	1377.3	1207.6	1120.8	1068.7	1026.9	1040.7
15°	2232.9	2189.0	2016.0	1724.4	1397.6	1168.6	1043.4	974.2	932.5	905.0	910.0
17.5°	2264.8	2201.6	1948.4	1553.6	1202.1	1024.2	922.1	880.3	872.1	868.8	871.0
20°	2309.2	2213.1	1859.5	1362.5	1058.2	908.9	856.2	852.3	851.8	850.1	855.6
22.5°	2357.0	2226.9	1742.0	1188.9	935.8	836.9	827.6	819.9	815.0	814.4	820.5
25°	2413.6	2231.3	1594.8	1046.7	831.4	802.9	791.9	780.4	777.1	777.1	780.4
27.5°	2468.5	2216.4	1423.4	923.1	772.7	771.6	757.3	753.5	752.9	754.6	758.9
30°	2523.4	2188.4	1253.2	808.9	738.6	738.6	733.7	736.4	738.6	744.1	748.0
32.5°	2597.6	2158.8	1111.0	724.4	709.0	703.5	708.4	713.9	716.1	723.3	729.3
35°	2706.3	2137.9	997.8	678.2	678.2	671.1	673.8	672.7	667.8	664.5	672.2
37.5°	2850.2	2136.8	904.5	656.8	652.4	651.3	651.9	644.7	625.5	602.4	603.0
40°	3023.2	2166.5	832.5	642.0	638.7	645.3	642.0	622.8	570.0	529.9	528.8
42.5°	3255.5	2251.0	786.4	623.9	633.7	642.0	628.8	562.3	526.7	499.7	498.6
45°	3528.9	2388.3	762.8	604.6	624.4	634.3	570.6	541.5	512.9	480.5	478.3
47.5°	3838.7	2561.3	757.3	586.5	603.5	609.6	545.9	532.7	500.3	465.1	462.4
50°	4175.9	2766.2	772.1	565.1	573.3	552.5	537.6	525.6	492.1	457.5	453.6
52.5°	4524.6	2991.9	801.8	536.0	543.1	520.1	534.3	523.9	487.1	440.4	437.1
55°	4867.3	3219.2	830.3	501.9	512.4	491.0	525.0	517.3	464.6	411.9	409.1
57.5°	5215.4	3445.5	858.3	471.7	482.7	462.9	510.2	499.7	439.3	385.5	384.4
60°	5577.3	3665.1	871.5	442.6	450.3	437.1	487.7	469.5	410.8	358.6	357.0
62.5°	5916.2	3848.0	850.1	413.5	418.5	413.0	458.0	433.8	382.2	328.4	327.9
65°	6256.1	3956.7	784.2	385.0	386.1	383.3	416.3	395.4	348.7	302.0	298.7
67.5°	6564.2	4017.7	679.3	354.2	351.5	350.4	377.3	353.7	316.3	275.7	272.4
70°	6629.5	3862.8	519.0	318.0	318.0	315.2	334.4	310.3	280.6	247.7	246.6
72.5°	6055.1	3249.4	368.5	276.8	281.2	275.7	291.6	271.3	244.4	222.4	215.8
75°	4882.6	2382.8	268.0	234.5	242.2	232.8	247.7	233.4	210.3	209.8	188.9
77.5°	3354.9	1473.4	194.4	193.3	198.8	186.7	203.7	196.1	175.2	165.8	155.4
80°	1431.7	587.6	141.7	149.4	149.4	138.4	158.2	160.4	142.2	137.8	137.8
82.5°	285.0	166.9	99.4	102.7	96.7	93.4	112.0	124.1	171.3	190.6	191.1
85°	85.7	61.5	59.9	56.0	49.4	50.0	65.9	124.7	153.8	87.9	75.8
87.5°	23.6	15.4	15.9	12.6	10.4	13.7	22.5	94.5	51.6	22.0	18.7
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)