

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: P941448

Luminaire Tested: **GALN-SB5A-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15913 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

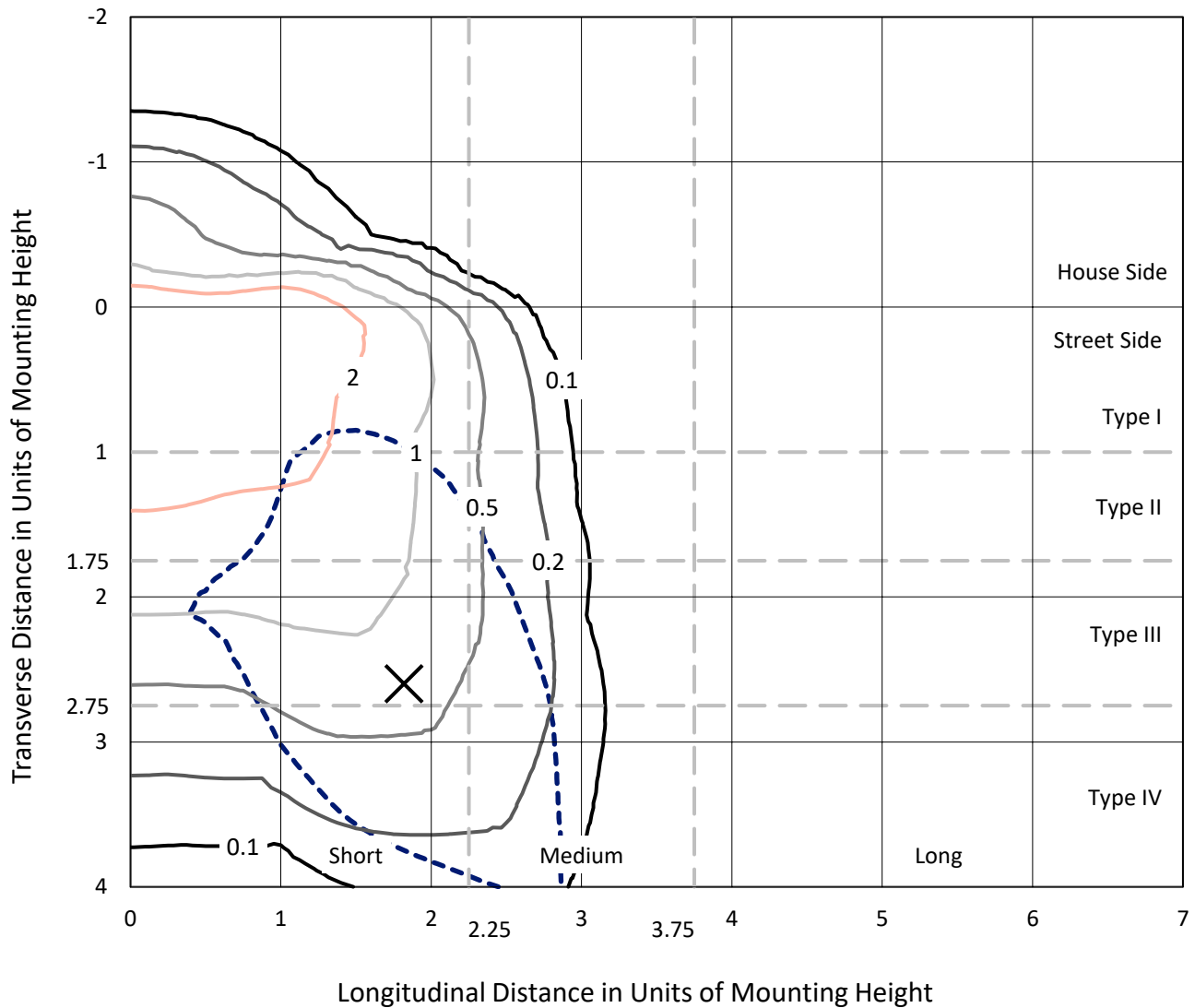
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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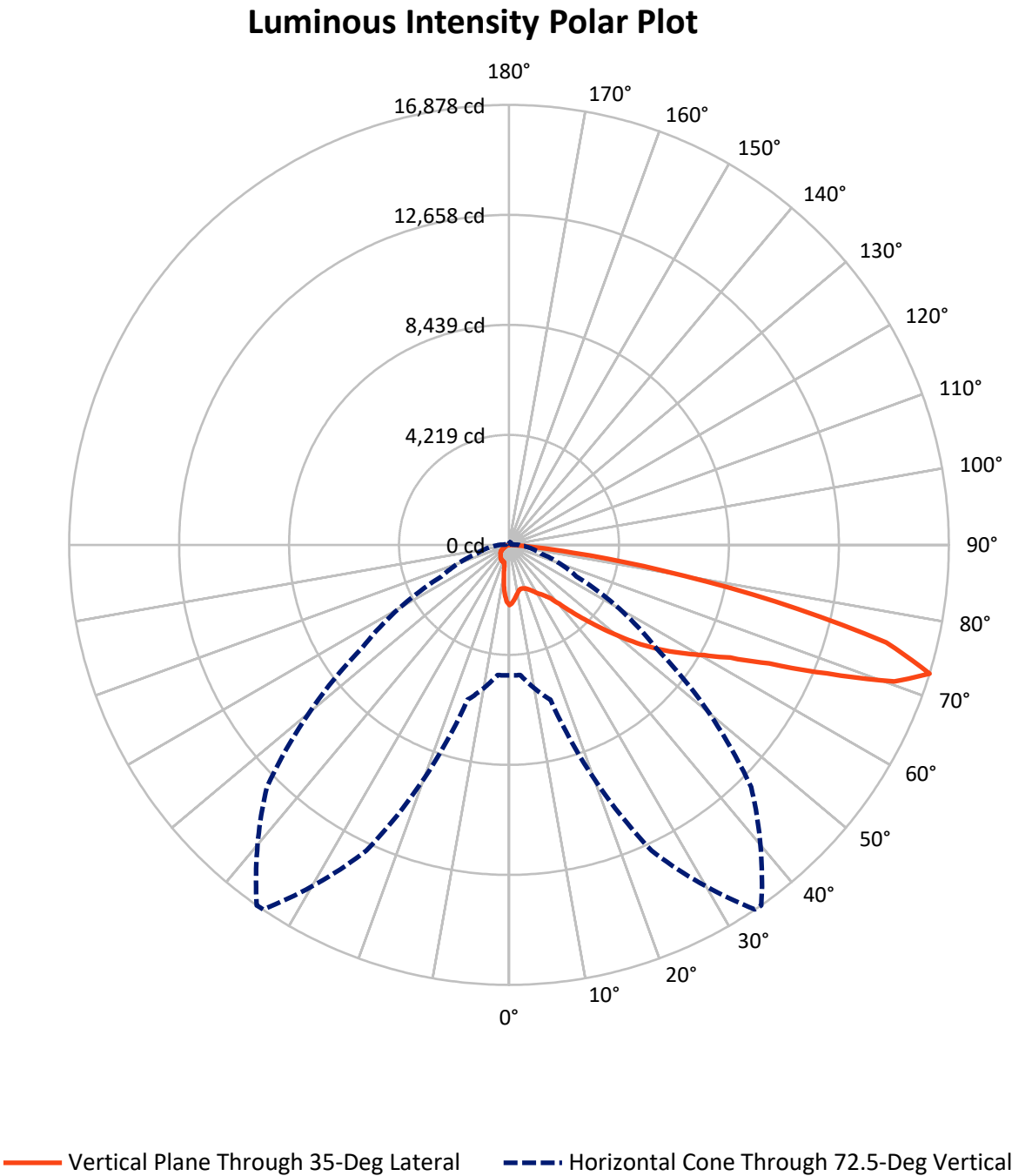
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type IV - Short - N/A

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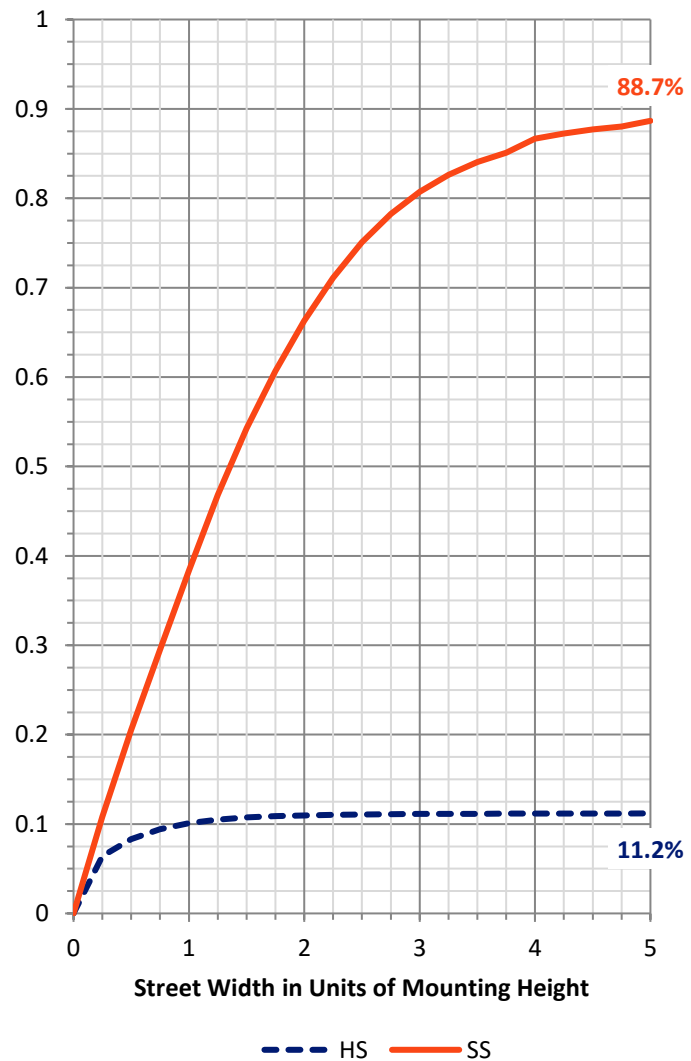
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1790.9	0.0	1790.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	14122.1	0.0	14122.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	15913.0	0.0	15913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	1.2
10°-20°	443.4	2.8
20°-30°	720.2	4.5
30°-40°	1201.7	7.6
40°-50°	2273.6	14.3
50°-60°	3612.8	22.7
60°-70°	4469.2	28.1
70°-80°	2778.1	17.5
80°-90°	224.5	1.4
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°	15913.0	100.0
0°-180°	15913.0	100.0

Coefficient of Utilization



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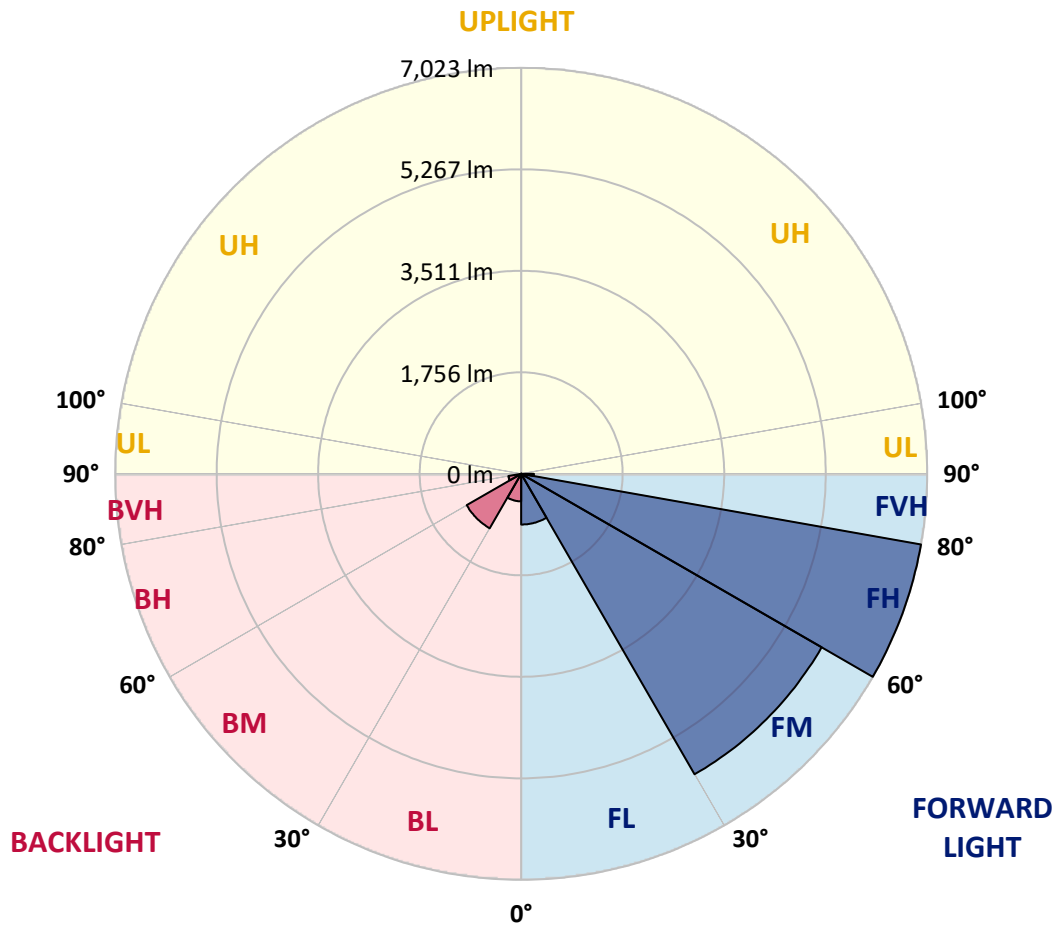
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	877.2	5.5			
FM	(30°-60°)	6000.8	37.7			
FH	(60°-80°)	7022.6	44.1			G3/7500
FVH	(80°-90°)	221.5	1.4			G2/225
BL	(0°-30°)	475.9	3.0	B1/500		
BM	(30°-60°)	1087.3	6.8	B2/2500		
BH	(60°-80°)	224.7	1.4	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2306.3	2306.3	2306.3	2306.3	2306.3	2306.3	2306.3	2306.3	2306.3	2306.3	2306.3
2.5°	2203.7	2222.4	2225.9	2231.7	2231.7	2238.7	2250.4	2266.7	2293.5	2307.5	2316.8
5°	2031.2	2045.1	2062.6	2076.6	2103.4	2106.9	2152.4	2196.7	2258.5	2305.2	2337.8
7.5°	1857.4	1873.7	1897.1	1930.9	1965.9	1976.4	2045.1	2119.8	2217.7	2305.2	2360.0
10°	1735.0	1736.2	1757.1	1791.0	1846.9	1859.8	1943.7	2049.8	2172.2	2291.2	2381.0
12.5°	1666.2	1674.4	1683.7	1709.3	1763.0	1771.1	1860.9	1985.7	2126.8	2283.0	2405.4
15°	1666.2	1672.0	1677.9	1690.7	1733.8	1740.8	1820.1	1944.9	2103.4	2286.5	2445.1
17.5°	1683.7	1693.0	1688.4	1703.5	1749.0	1753.6	1823.6	1933.2	2102.3	2308.7	2505.7
20°	1725.7	1732.7	1723.3	1732.7	1778.1	1787.5	1859.8	1955.4	2122.1	2347.1	2581.5
22.5°	1792.1	1795.6	1773.5	1780.5	1827.1	1838.8	1922.7	2018.3	2169.9	2408.9	2682.9
25°	1876.1	1883.1	1849.3	1857.4	1901.7	1915.7	2012.5	2112.8	2245.7	2494.1	2812.4
27.5°	1972.9	1976.4	1947.2	1946.0	2003.2	2023.0	2120.9	2229.4	2347.1	2601.3	2975.6
30°	2083.6	2094.1	2066.1	2061.5	2133.8	2150.1	2246.9	2372.8	2496.4	2762.2	3207.6
32.5°	2171.1	2179.2	2162.9	2174.6	2248.0	2260.9	2399.6	2575.7	2730.7	2990.8	3523.6
35°	2297.0	2301.7	2264.4	2285.3	2369.3	2401.9	2608.3	2860.2	3025.7	3277.6	3936.4
37.5°	2752.9	2752.9	2594.3	2490.6	2571.0	2600.2	2894.0	3218.1	3389.5	3662.4	4456.4
40°	3383.7	3373.2	3141.2	2929.0	2918.5	2975.6	3300.9	3669.4	3859.4	4124.1	5041.7
42.5°	4056.5	4040.2	3724.2	3514.3	3479.3	3499.1	3770.8	4225.5	4419.1	4687.3	5671.4
45°	4653.5	4648.8	4359.6	4077.5	4014.5	4077.5	4357.3	4876.2	5014.9	5297.1	6299.8
47.5°	5153.7	5153.7	4942.6	4758.4	4725.8	4763.1	5151.3	5597.9	5585.1	5946.5	6912.0
50°	5729.7	5725.0	5524.5	5445.2	5479.0	5531.5	6065.5	6358.1	6175.1	6584.3	7458.8
52.5°	6133.1	6161.1	6092.3	6079.5	6252.0	6343.0	6993.6	7102.0	6703.3	7189.5	7868.1
55°	6452.6	6485.2	6564.5	6654.3	6986.6	7105.5	7892.6	7807.5	7145.2	7714.2	8103.6
57.5°	6905.0	6858.4	6980.8	7158.0	7695.5	7838.9	8763.6	8473.2	7500.8	8139.8	8129.3
60°	7454.2	7461.2	7482.2	7706.0	8403.3	8587.5	9621.7	9102.9	7729.3	8401.0	7844.8
62.5°	8114.1	8124.6	8167.8	8511.7	9353.6	9527.3	10535.9	9618.2	7834.3	8327.5	7110.2
65°	8068.6	8113.0	8594.5	9771.0	10798.2	10969.6	11602.8	9979.7	7675.7	7655.9	5789.1
67.5°	7350.4	7422.7	8228.4	11275.1	12976.3	13167.5	12892.3	10050.8	6991.3	5953.5	3776.6
70°	6408.3	6433.9	7402.9	12627.7	15498.3	15691.9	14046.7	9268.5	5305.3	3320.7	1691.9
72.5°	5004.4	5010.3	6147.1	12941.3	16867.2	16877.7	13140.7	6880.5	2853.2	1275.6	587.7
75°	3574.9	3539.9	4117.1	10495.1	14839.5	14958.5	9851.4	3227.5	1090.2	602.8	292.7
77.5°	1916.9	1955.4	2329.6	6224.1	10251.4	10454.3	5375.2	930.5	555.0	410.4	193.6
80°	592.3	625.0	954.9	2849.7	5806.6	5929.1	1992.7	413.9	387.1	292.7	127.1
82.5°	186.6	193.6	445.4	1197.5	2410.1	2466.1	577.2	234.4	264.7	193.6	74.6
85°	53.6	54.8	198.2	446.6	595.8	607.5	162.1	90.9	151.6	120.1	38.5
87.5°	5.8	18.7	74.6	74.6	52.5	51.3	17.5	19.8	43.1	15.2	7.0
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°	2306.3	2306.3	2306.3	2306.3	2306.3	2306.3	2306.3	2306.3	2306.3	2306.3	2306.3
2.5°	2311.0	2312.2	2297.0	2271.3	2243.4	2220.0	2190.9	2167.6	2151.3	2146.6	2154.7
5°	2327.3	2319.2	2276.0	2197.9	2104.6	2024.2	1934.4	1863.3	1816.6	1796.8	1803.8
7.5°	2351.8	2328.5	2234.0	2080.1	1901.7	1743.2	1582.2	1457.5	1378.2	1338.6	1344.4
10°	2372.8	2326.1	2164.1	1909.9	1637.0	1396.9	1180.0	1029.6	945.6	906.0	907.1
12.5°	2392.6	2325.0	2073.1	1708.2	1338.6	1044.7	843.0	768.4	745.1	736.9	734.6
15°	2429.9	2328.5	1958.9	1477.3	1041.2	789.4	715.9	714.8	719.4	717.1	715.9
17.5°	2481.2	2332.0	1829.4	1232.5	803.4	696.1	692.6	703.1	710.1	706.6	705.4
20°	2547.7	2346.0	1691.9	989.9	690.3	672.8	680.9	690.3	696.1	690.3	689.1
22.5°	2641.0	2370.5	1541.4	795.2	654.1	658.8	665.8	676.3	682.1	673.9	672.8
25°	2755.2	2408.9	1393.4	691.4	636.6	642.5	653.0	664.6	671.6	663.4	662.3
27.5°	2903.3	2470.7	1256.9	668.1	619.1	622.6	637.8	655.3	664.6	654.1	654.1
30°	3117.9	2572.2	1139.2	678.6	608.6	600.5	621.5	646.0	656.5	647.1	646.0
32.5°	3402.4	2715.6	1066.9	694.9	604.0	574.8	594.7	626.1	643.6	637.8	637.8
35°	3775.5	2933.6	1038.9	713.6	600.5	548.0	562.0	595.8	626.1	632.0	632.0
37.5°	4227.9	3236.8	1047.1	721.7	590.0	525.9	532.9	562.0	601.7	620.3	625.0
40°	4742.1	3590.1	1093.7	713.6	578.3	507.2	508.4	530.5	565.5	593.5	602.8
42.5°	5272.6	4002.8	1180.0	683.3	567.8	490.9	487.4	502.5	525.9	545.7	553.8
45°	5777.5	4427.3	1265.1	641.3	555.0	474.6	466.4	472.2	476.9	485.1	489.7
47.5°	6218.2	4725.8	1240.6	602.8	537.5	455.9	441.9	439.6	425.6	424.4	423.3
50°	6522.5	4791.1	1101.9	564.3	511.9	434.9	412.8	398.8	374.3	362.6	363.8
52.5°	6619.3	4533.4	900.1	525.9	469.9	406.9	375.4	353.3	323.0	312.5	311.3
55°	6491.1	4028.5	719.4	479.2	411.6	369.6	334.6	305.5	281.0	268.2	268.2
57.5°	6177.4	3386.0	569.0	424.4	349.8	327.6	292.7	263.5	242.5	229.7	227.4
60°	5657.4	2688.8	450.1	359.1	298.5	282.2	246.0	227.4	208.7	193.6	190.1
62.5°	4868.0	1919.2	353.3	284.5	249.5	230.9	209.9	195.9	173.7	152.7	149.2
65°	3798.8	1174.2	272.8	208.7	200.6	191.2	178.4	165.6	138.8	117.8	114.3
67.5°	2396.1	556.2	194.7	157.4	158.6	153.9	148.1	137.6	117.8	99.1	96.8
70°	1055.2	269.3	128.3	120.1	117.8	117.8	122.4	118.9	100.3	82.8	79.3
72.5°	359.1	144.6	95.6	90.9	85.1	84.0	102.6	99.1	80.5	64.1	60.6
75°	187.7	96.8	70.0	65.3	51.3	61.8	81.6	77.0	57.1	42.0	38.5
77.5°	122.4	68.8	47.8	42.0	29.1	40.8	60.6	53.6	33.8	21.0	18.7
80°	77.0	45.5	28.0	19.8	14.0	22.2	32.6	23.3	12.8	4.7	3.5
82.5°	40.8	23.3	10.5	7.0	5.8	7.0	8.2	5.8	2.3	0.0	0.0
85°	16.3	8.2	3.5	2.3	1.2	0.0	2.3	1.2	0.0	0.0	0.0
87.5°	5.8	1.2	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)