

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: P940254

Luminaire Tested: **GALN-SB3B-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11443 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 109.2
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

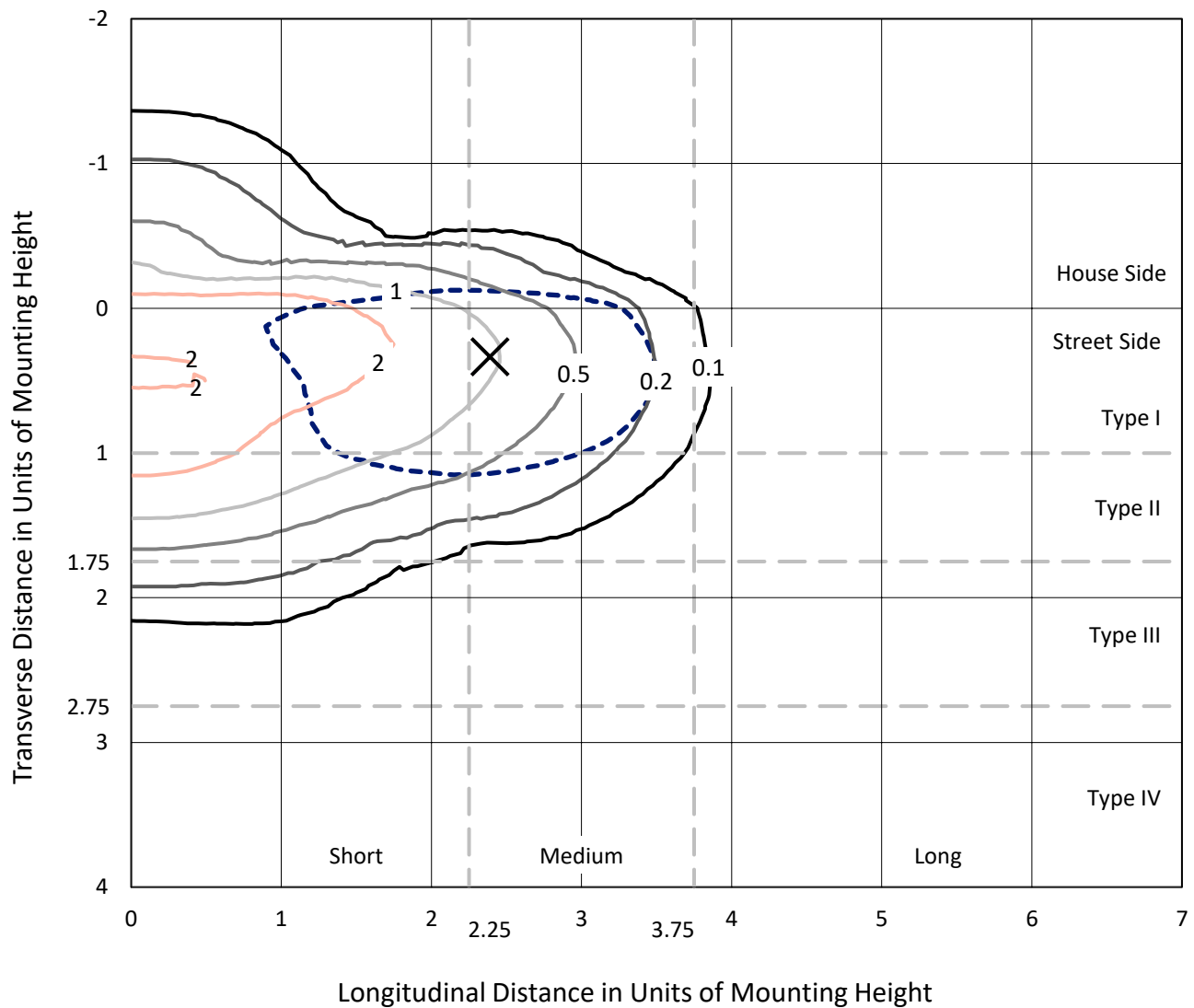


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

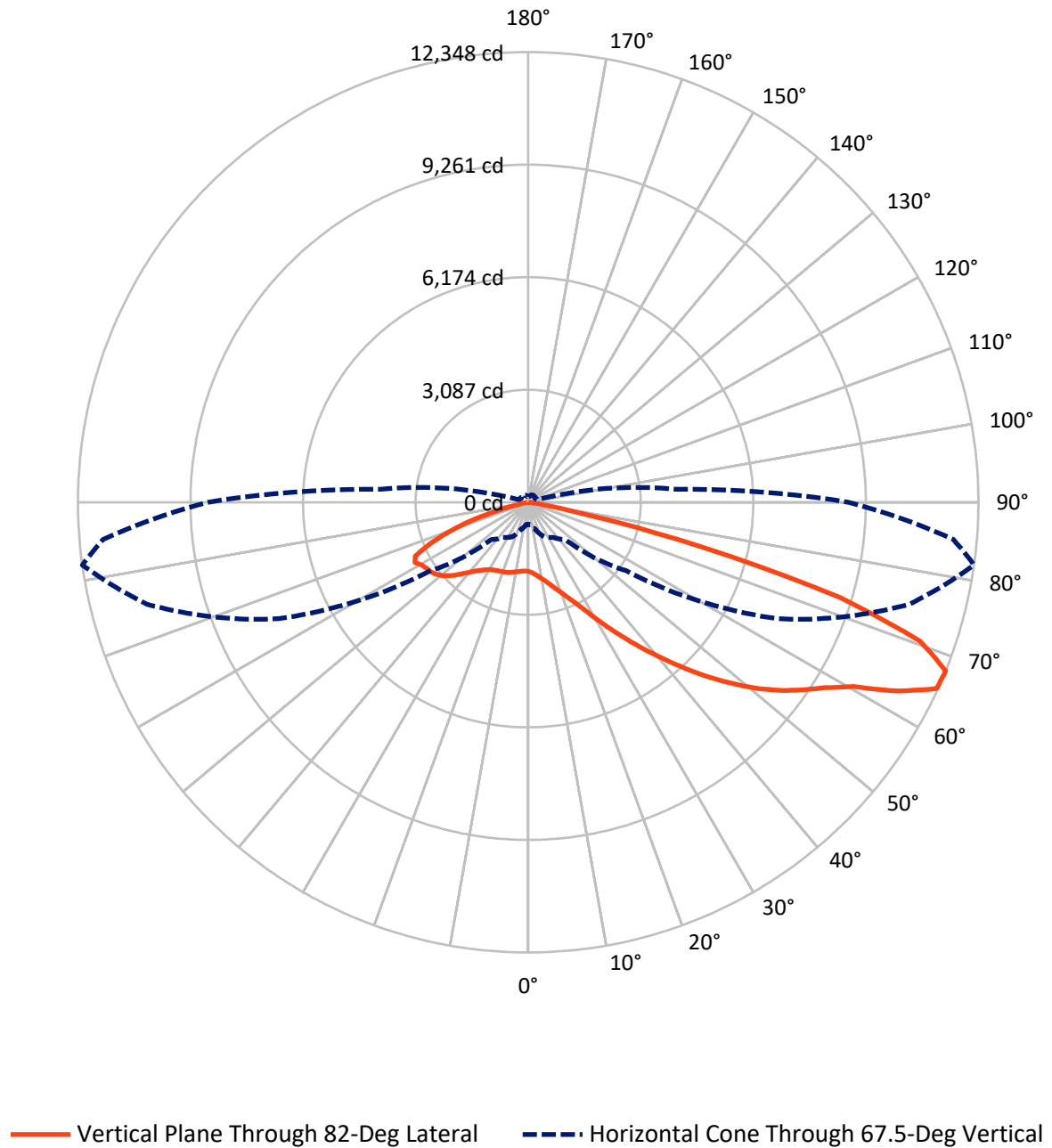


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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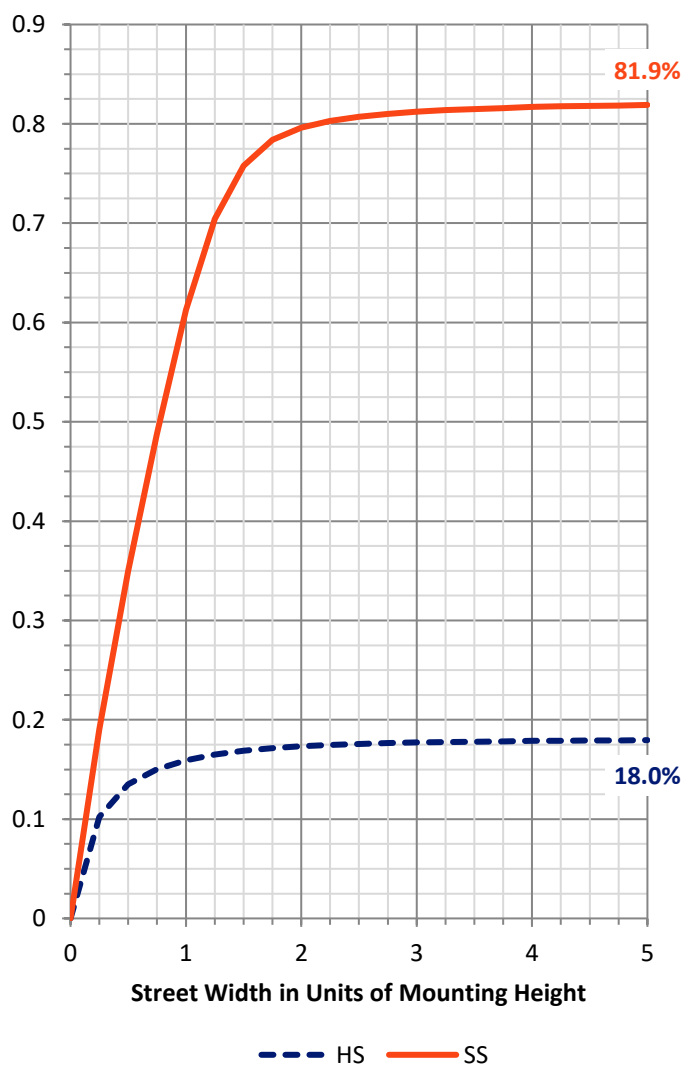
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2072.8	0.0	2072.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9370.2	0.0	9370.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	11443.0	0.0	11443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	1.5
10°-20°	438.9	3.8
20°-30°	703.0	6.1
30°-40°	1243.0	10.9
40°-50°	2177.9	19.0
50°-60°	2904.8	25.4
60°-70°	2704.2	23.6
70°-80°	1037.9	9.1
80°-90°	64.5	0.6
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°	11443.0	100.0
0°-180°	11443.0	100.0

Coefficient of Utilization



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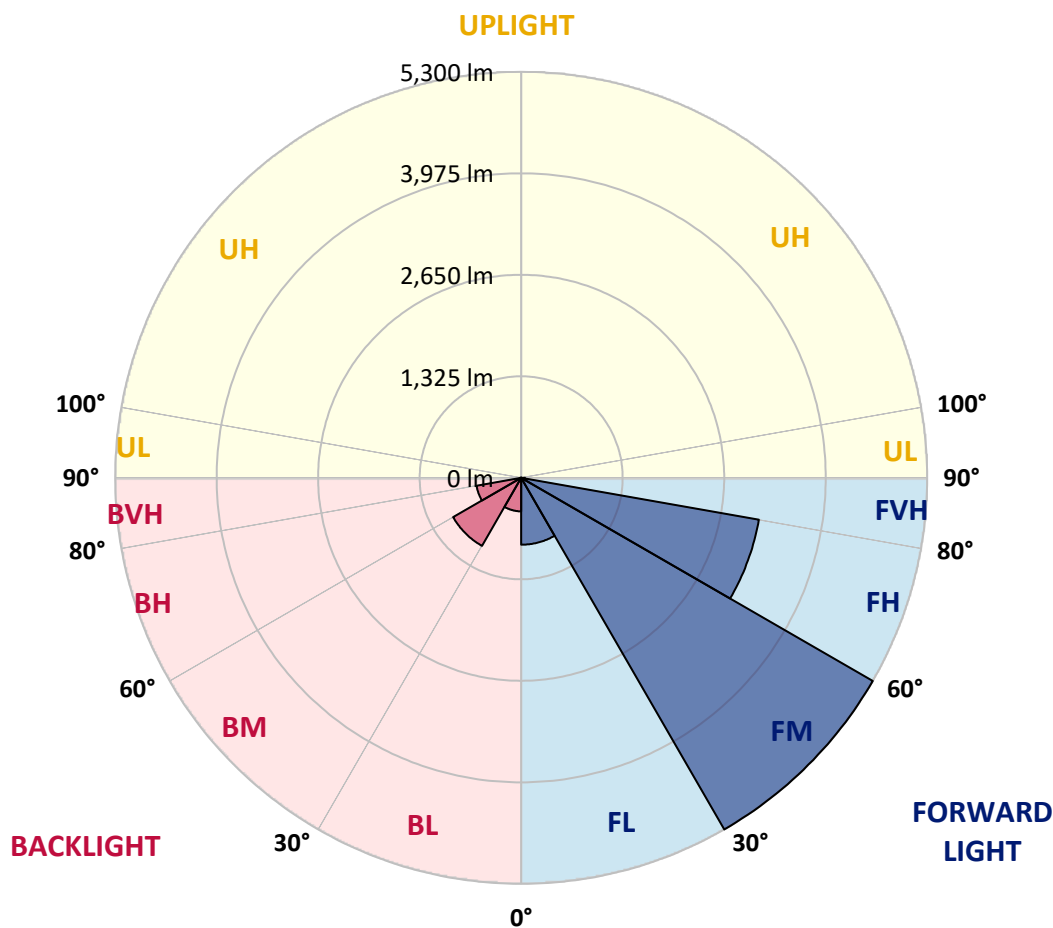
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	873.0	7.6			
FM	(30°-60°)	5299.9	46.3			
FH	(60°-80°)	3150.4	27.5			G2/5000
FVH	(80°-90°)	46.9	0.4			G1/100
BL	(0°-30°)	437.8	3.8	B1/500		
BM	(30°-60°)	1025.8	9.0	B2/2500		
BH	(60°-80°)	591.6	5.2	B2/1000		G2/1000
BVH	(80°-90°)	17.6	0.2			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°	82°	85°
0°	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7
2.5°	2003.6	2015.2	2008.6	2005.3	1999.5	1991.3	1984.7	1964.1	1942.7	1928.7	1923.7
5°	2044.0	2055.5	2054.7	2058.0	2062.1	2064.6	2063.0	2039.9	2009.4	1985.5	1971.5
7.5°	2009.4	2022.6	2033.3	2049.8	2078.6	2109.1	2123.9	2119.0	2087.7	2054.7	2037.4
10°	1911.4	1925.4	1950.9	1989.6	2050.6	2116.5	2171.7	2197.3	2177.5	2141.2	2117.3
12.5°	1731.8	1745.8	1796.0	1880.1	1982.2	2096.7	2202.2	2270.6	2275.5	2239.3	2211.3
15°	1529.9	1543.9	1597.5	1702.9	1858.6	2042.4	2218.7	2348.0	2391.7	2360.4	2326.6
17.5°	1404.7	1417.1	1457.4	1542.3	1704.6	1933.6	2212.9	2430.4	2530.1	2505.4	2465.0
20°	1366.8	1377.5	1396.5	1455.8	1590.9	1820.7	2175.0	2507.9	2679.2	2665.2	2619.9
22.5°	1407.2	1417.1	1422.8	1449.2	1534.0	1746.6	2127.2	2586.9	2852.2	2853.9	2798.7
25°	1500.3	1510.1	1503.6	1520.0	1557.1	1723.5	2109.1	2680.0	3069.7	3087.9	3025.2
27.5°	1653.5	1654.3	1638.7	1637.8	1643.6	1758.1	2128.0	2779.7	3344.1	3377.9	3300.4
30°	1960.8	1948.4	1888.3	1823.2	1793.6	1861.9	2180.8	2897.5	3667.9	3728.0	3630.8
32.5°	2434.5	2416.4	2306.0	2150.3	1993.8	2029.2	2275.5	3031.8	4020.5	4129.2	4010.6
35°	2948.6	2943.7	2828.3	2596.8	2323.3	2267.3	2429.6	3208.1	4405.2	4578.2	4437.3
37.5°	3426.5	3424.0	3358.1	3085.4	2752.5	2599.3	2676.7	3438.8	4817.2	5067.6	4901.2
40°	3863.1	3870.5	3804.6	3560.8	3225.4	3025.2	3012.9	3723.9	5275.2	5600.6	5402.9
42.5°	4240.4	4248.7	4181.9	4001.5	3692.6	3496.5	3425.6	4073.2	5722.6	6173.2	5939.3
45°	4496.7	4547.7	4537.9	4393.7	4172.1	3968.6	3921.6	4511.5	6232.6	6780.4	6506.1
47.5°	4569.2	4616.1	4690.3	4710.0	4574.9	4374.7	4430.8	5039.6	6748.3	7388.4	7076.2
50°	4390.4	4434.1	4588.1	4793.3	4887.2	4825.4	4925.9	5605.6	7276.4	7994.8	7635.6
52.5°	4037.8	4082.3	4276.7	4601.3	4984.4	5178.8	5422.7	6163.3	7788.0	8569.0	8165.3
55°	3527.8	3574.8	3824.4	4191.8	4799.0	5324.7	5837.1	6720.3	8256.8	9085.6	8643.2
57.5°	2834.1	2868.7	3128.2	3642.3	4332.7	5179.7	6142.8	7328.3	8698.4	9593.1	9116.9
60°	1847.1	1877.6	2179.1	2752.5	3559.9	4695.2	6203.7	8006.3	9285.0	10253.0	9755.4
62.5°	1228.4	1249.0	1427.8	1848.8	2507.0	3765.1	5847.0	8547.6	10145.1	11401.5	10850.3
65°	842.8	863.4	1042.2	1335.5	1619.7	2490.5	4821.3	8475.9	10924.5	12313.5	11661.8
67.5°	601.4	618.7	770.3	1047.1	1172.4	1446.7	3268.3	7559.8	10812.4	12348.1	11705.5
70°	430.9	440.8	566.0	815.6	931.8	869.2	1817.5	5781.9	9467.1	11402.3	10814.1
72.5°	301.5	304.8	393.0	621.2	750.5	634.4	865.1	3854.9	7160.2	8949.7	8383.7
75°	204.3	208.4	264.5	455.6	602.2	484.4	458.1	2067.1	4203.4	4953.9	4440.6
77.5°	125.2	126.9	170.5	311.4	450.7	369.1	294.9	875.8	1626.3	1596.7	1361.0
80°	70.9	70.9	108.8	193.6	307.3	238.1	206.8	372.4	514.9	452.3	398.8
82.5°	39.5	40.4	79.1	120.3	203.5	140.9	113.7	172.2	222.4	196.9	171.4
85°	16.5	18.1	48.6	56.8	97.2	70.0	46.1	72.5	82.4	73.3	53.6
87.5°	1.6	2.5	14.8	10.7	11.5	14.0	6.6	14.0	11.5	11.5	8.2
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°	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7
2.5°	1908.1	1895.7	1864.4	1828.2	1780.4	1757.3	1726.0	1704.6	1686.5	1688.1	1671.6
5°	1945.1	1913.8	1843.8	1756.5	1647.7	1570.3	1487.9	1431.1	1384.9	1375.0	1352.8
7.5°	1996.2	1946.8	1824.0	1666.7	1483.0	1343.7	1219.3	1139.4	1082.6	1064.4	1046.3
10°	2062.1	1990.5	1798.5	1553.8	1289.4	1112.2	978.8	916.1	877.4	864.2	854.4
12.5°	2138.8	2040.7	1764.7	1416.2	1090.0	919.4	834.6	803.3	790.9	786.8	784.3
15°	2235.2	2103.3	1713.6	1253.1	921.1	801.6	765.4	761.3	762.9	761.3	760.4
17.5°	2349.7	2171.7	1630.4	1085.0	807.4	741.5	728.3	731.6	735.7	734.9	733.2
20°	2474.9	2239.3	1524.2	935.9	729.9	698.6	691.2	694.5	697.8	696.2	695.3
22.5°	2617.4	2311.8	1406.3	819.7	678.0	659.1	650.9	651.7	651.7	648.4	646.7
25°	2788.0	2391.7	1282.8	737.4	638.5	623.7	613.8	610.5	605.5	595.7	594.0
27.5°	2991.5	2476.5	1164.1	679.7	607.2	593.2	581.7	573.4	561.1	544.6	542.9
30°	3220.5	2579.5	1063.6	643.4	582.5	568.5	555.3	542.9	524.8	504.2	502.6
32.5°	3489.9	2689.9	990.3	619.5	560.2	545.4	529.7	514.9	495.1	474.5	475.4
35°	3811.2	2823.4	947.4	603.1	542.9	523.2	505.9	489.4	474.5	456.4	454.8
37.5°	4159.7	2965.1	934.3	594.8	531.4	500.9	481.1	469.6	468.0	457.2	456.4
40°	4541.2	3133.2	944.2	589.9	519.0	479.5	458.1	455.6	459.7	440.8	441.6
42.5°	4944.8	3332.5	960.6	584.1	501.7	458.1	437.5	437.5	434.2	407.8	407.8
45°	5381.5	3562.4	977.1	570.1	481.1	436.6	421.0	415.2	401.2	375.7	374.9
47.5°	5821.4	3796.4	989.5	544.6	456.4	418.5	404.5	391.3	370.7	347.7	346.8
50°	6239.1	4006.5	976.3	506.7	428.4	401.2	386.4	368.3	346.0	330.4	327.9
52.5°	6612.4	4188.5	920.3	462.2	398.8	383.1	369.9	351.0	332.8	316.4	314.7
55°	6937.0	4336.0	821.4	420.2	372.4	367.4	354.3	330.4	305.7	291.6	290.0
57.5°	7248.4	4448.1	697.8	385.6	348.5	350.1	330.4	309.0	285.9	271.1	269.4
60°	7662.8	4598.0	572.6	353.4	323.0	327.9	306.5	290.8	262.0	243.0	240.6
62.5°	8325.2	4831.2	454.8	313.9	293.3	294.9	285.9	266.9	232.3	210.1	208.4
65°	8850.8	4745.5	358.4	271.1	259.5	262.0	262.0	241.4	204.3	178.8	176.3
67.5°	8791.5	4063.3	285.9	229.0	227.4	229.0	234.8	217.5	181.3	160.7	157.4
70°	8098.6	3232.0	229.0	190.3	197.7	193.6	210.1	198.6	163.1	142.5	140.1
72.5°	6608.2	2328.2	174.7	157.4	151.6	158.2	189.5	178.8	135.9	112.9	110.4
75°	3861.5	1242.4	130.2	124.4	109.6	131.8	168.1	152.4	103.8	83.2	80.7
77.5°	1257.2	433.4	95.6	91.4	81.6	106.3	143.4	128.5	84.9	65.9	63.4
80°	337.0	131.0	65.1	60.1	52.7	79.1	113.7	102.2	61.0	42.8	42.0
82.5°	135.1	55.2	37.9	33.8	28.8	54.4	89.8	82.4	45.3	27.2	27.2
85°	43.7	18.1	14.0	10.7	13.2	33.8	53.6	56.0	32.1	14.0	10.7
87.5°	5.8	2.5	2.5	3.3	2.5	5.8	16.5	15.7	9.1	1.6	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)