

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: P939918

Luminaire Tested: **GALN-SB2D-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939918
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-SB2D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA 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: 14292 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 147.6
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



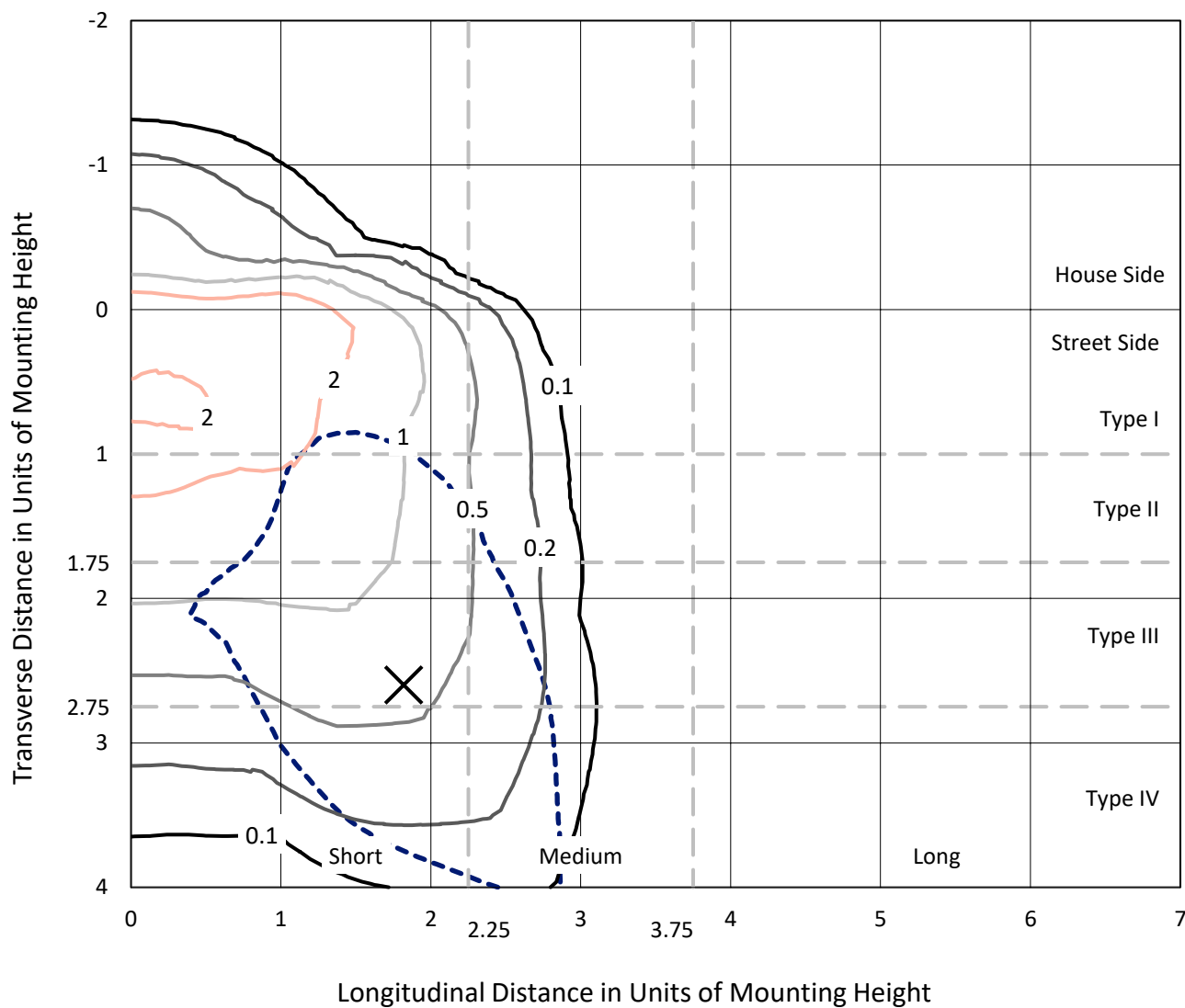
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Iso-Footcandle Lines of Horizontal Illumination

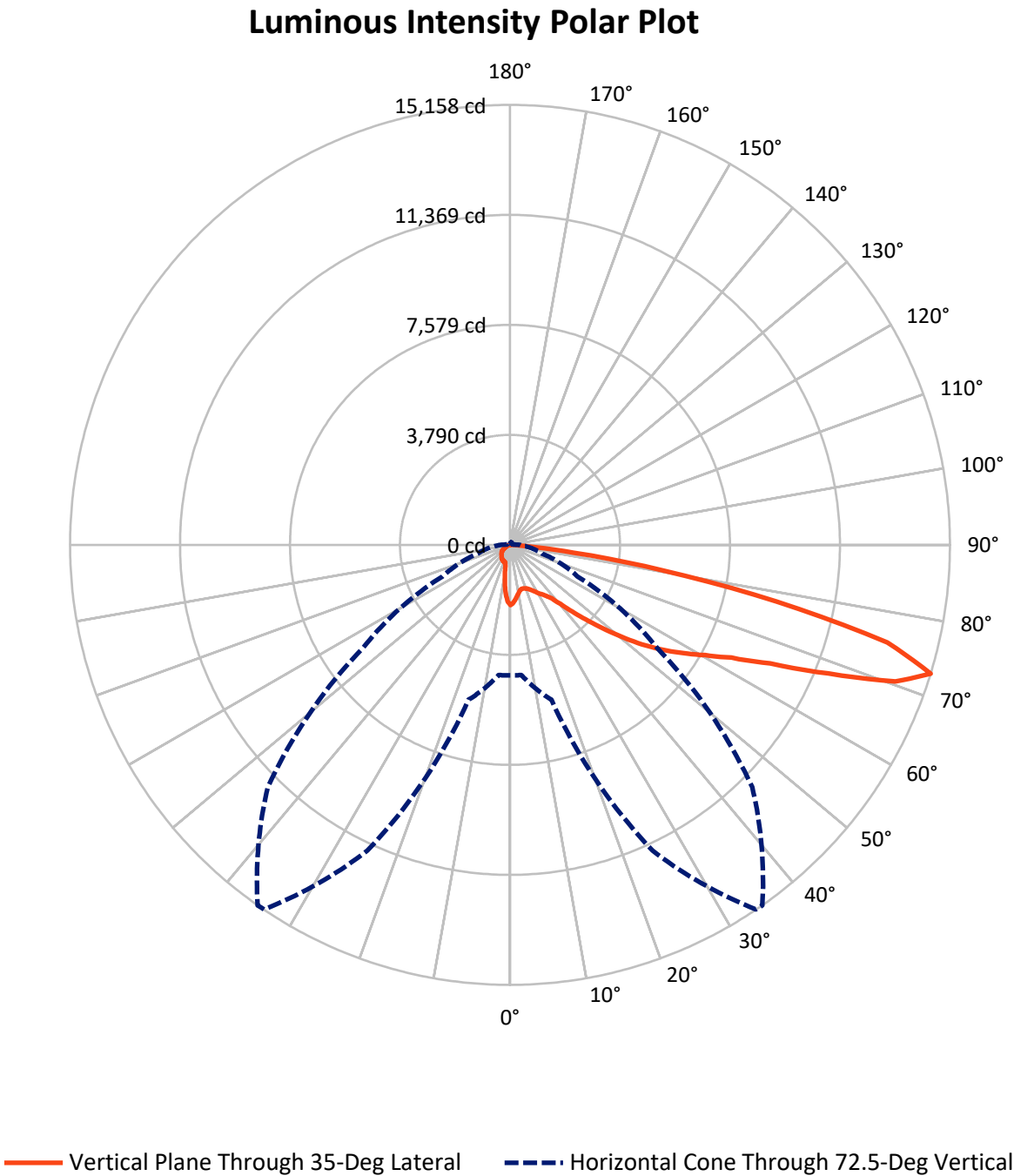
✕ Max cd

--- 1/2 Max cd



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

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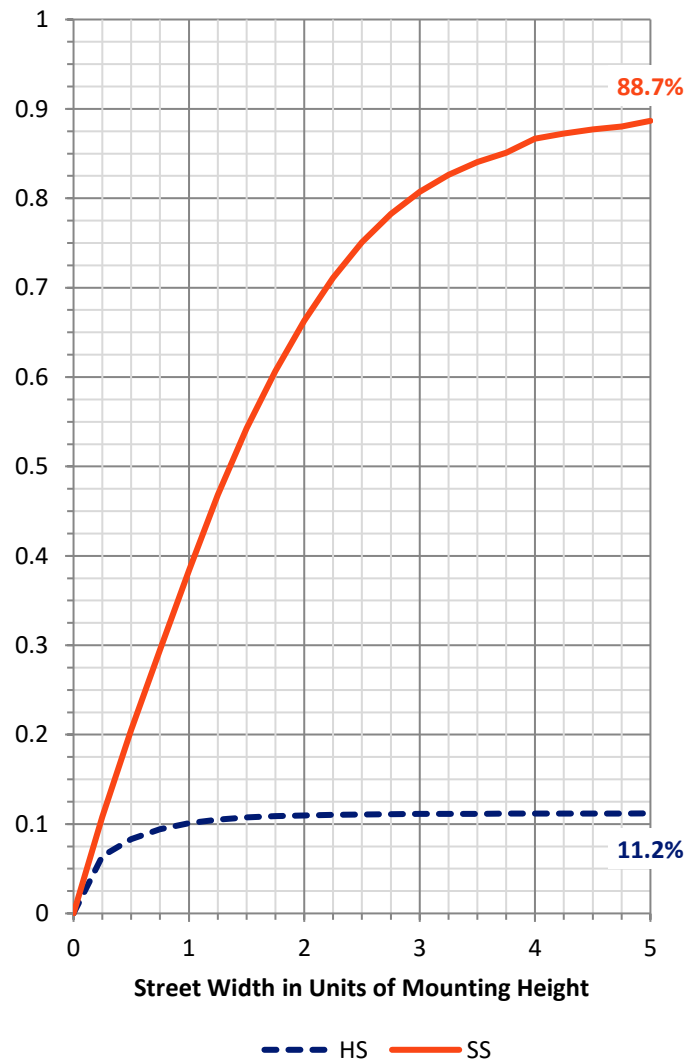
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1608.5	0.0	1608.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	12683.5	0.0	12683.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	14292.0	0.0	14292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	1.2
10°-20°	398.2	2.8
20°-30°	646.9	4.5
30°-40°	1079.3	7.6
40°-50°	2042.0	14.3
50°-60°	3244.7	22.7
60°-70°	4014.0	28.1
70°-80°	2495.1	17.5
80°-90°	201.6	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°	14292.0	100.0
0°-180°	14292.0	100.0

Coefficient of Utilization



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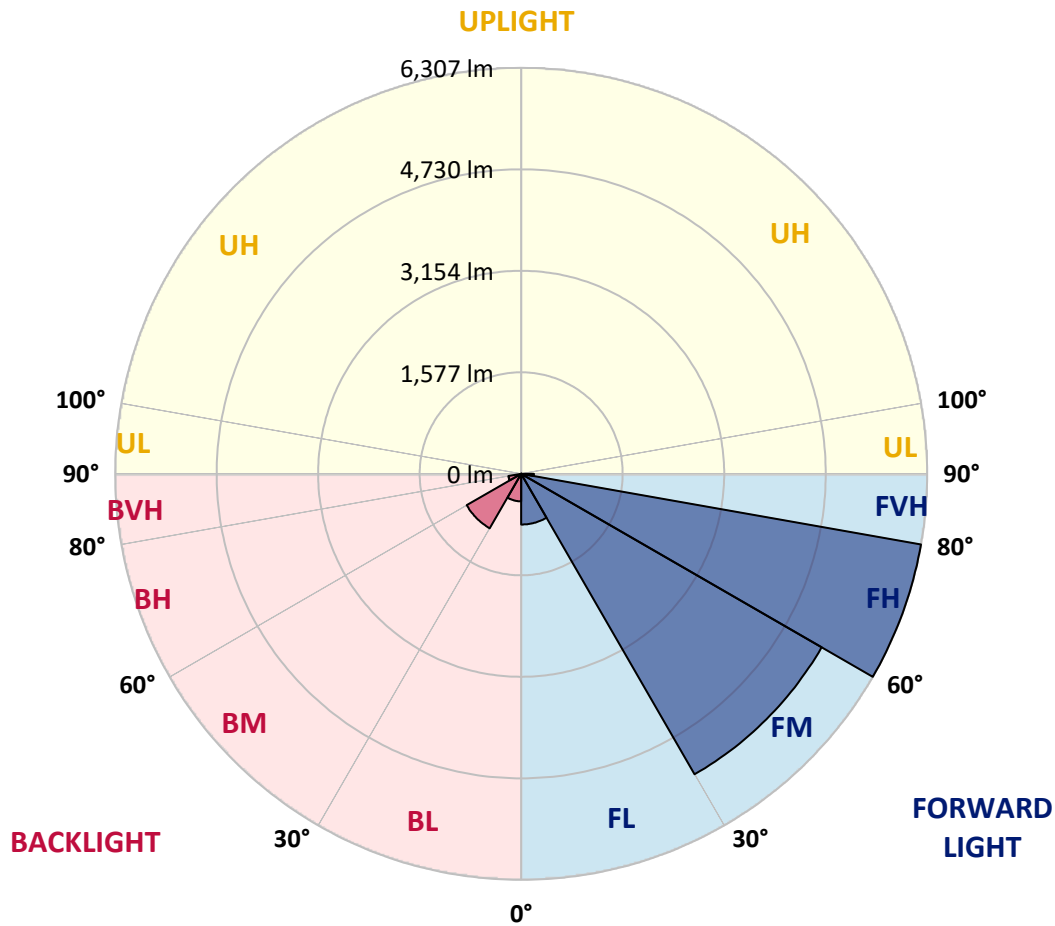
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	787.9	5.5			
FM	(30°-60°)	5389.5	37.7			
FH	(60°-80°)	6307.2	44.1			G3/7500
FVH	(80°-90°)	198.9	1.4			G2/225
BL	(0°-30°)	427.4	3.0	B1/500		
BM	(30°-60°)	976.5	6.8	B1/1000		
BH	(60°-80°)	201.8	1.4	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	34°	35°	45°	55°	65°	75°	85°
0°	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4
2.5°	1979.2	1996.0	1999.1	2004.4	2004.4	2010.7	2021.1	2035.8	2059.9	2072.4	2080.8
5°	1824.2	1836.8	1852.5	1865.1	1889.2	1892.3	1933.2	1973.0	2028.5	2070.3	2099.7
7.5°	1668.2	1682.9	1703.8	1734.2	1765.6	1775.0	1836.8	1903.8	1991.8	2070.3	2119.6
10°	1558.3	1559.3	1578.2	1608.5	1658.8	1670.3	1745.7	1841.0	1951.0	2057.8	2138.4
12.5°	1496.5	1503.8	1512.2	1535.2	1583.4	1590.7	1671.4	1783.4	1910.1	2050.4	2160.4
15°	1496.5	1501.7	1506.9	1518.5	1557.2	1563.5	1634.7	1746.8	1889.2	2053.6	2196.0
17.5°	1512.2	1520.6	1516.4	1530.0	1570.8	1575.0	1637.8	1736.3	1888.1	2073.5	2250.5
20°	1549.9	1556.2	1547.8	1556.2	1597.0	1605.4	1670.3	1756.2	1905.9	2108.0	2318.5
22.5°	1609.6	1612.7	1592.8	1599.1	1641.0	1651.5	1726.9	1812.7	1948.9	2163.5	2409.6
25°	1685.0	1691.3	1660.9	1668.2	1708.0	1720.6	1807.5	1897.6	2016.9	2240.0	2525.9
27.5°	1771.9	1775.0	1748.8	1747.8	1799.1	1816.9	1904.9	2002.3	2108.0	2336.3	2672.5
30°	1871.4	1880.8	1855.7	1851.5	1916.4	1931.1	2018.0	2131.1	2242.1	2480.9	2880.9
32.5°	1949.9	1957.2	1942.6	1953.1	2019.0	2030.5	2155.2	2313.3	2452.6	2686.1	3164.7
35°	2063.0	2067.2	2033.7	2052.5	2127.9	2157.3	2342.6	2568.8	2717.5	2943.7	3535.4
37.5°	2472.5	2472.5	2330.1	2236.8	2309.1	2335.3	2599.2	2890.3	3044.3	3289.3	4002.5
40°	3039.0	3029.6	2821.2	2630.6	2621.2	2672.5	2964.7	3295.6	3466.3	3704.0	4528.2
42.5°	3643.3	3628.6	3344.8	3156.3	3124.9	3142.7	3386.7	3795.1	3968.9	4209.8	5093.7
45°	4179.4	4175.2	3915.5	3662.1	3605.6	3662.1	3913.4	4379.5	4504.1	4757.5	5658.1
47.5°	4628.7	4628.7	4439.1	4273.7	4244.4	4277.9	4626.6	5027.7	5016.2	5340.8	6207.9
50°	5146.0	5141.8	4961.7	4890.5	4920.9	4968.0	5447.6	5710.5	5546.0	5913.6	6699.0
52.5°	5508.3	5533.5	5471.7	5460.2	5615.2	5696.8	6281.2	6378.6	6020.4	6457.1	7066.6
55°	5795.3	5824.6	5895.8	5976.5	6274.9	6381.7	7088.6	7012.1	6417.3	6928.4	7278.1
57.5°	6201.6	6159.7	6269.7	6428.8	6911.6	7040.4	7870.9	7610.1	6736.7	7310.6	7301.2
60°	6694.8	6701.1	6720.0	6921.0	7547.3	7712.7	8641.6	8175.6	6942.0	7545.2	7045.7
62.5°	7287.6	7297.0	7335.7	7644.7	8400.8	8556.8	9462.6	8638.5	7036.2	7479.2	6385.9
65°	7246.7	7286.5	7719.0	8775.7	9698.3	9852.2	10420.8	8963.1	6893.8	6876.0	5199.4
67.5°	6601.6	6666.6	7390.2	10126.6	11654.4	11826.2	11579.0	9027.0	6279.1	5347.1	3391.9
70°	5755.5	5778.5	6648.8	11341.3	13919.6	14093.4	12615.8	8324.3	4764.8	2982.5	1519.5
72.5°	4494.6	4499.9	5520.9	11623.0	15149.0	15158.4	11802.1	6179.6	2562.5	1145.7	527.8
75°	3210.8	3179.3	3697.7	9426.0	13327.9	13434.7	8847.9	2898.7	979.1	541.4	262.9
77.5°	1721.6	1756.2	2092.3	5590.0	9207.1	9389.3	4827.7	835.7	498.5	368.6	173.8
80°	532.0	561.3	857.7	2559.4	5215.1	5325.1	1789.7	371.8	347.7	262.9	114.1
82.5°	167.6	173.8	400.0	1075.5	2164.6	2214.9	518.4	210.5	237.7	173.8	67.0
85°	48.2	49.2	178.0	401.1	535.1	545.6	145.6	81.7	136.1	107.9	34.6
87.5°	5.2	16.8	67.0	67.0	47.1	46.1	15.7	17.8	38.7	13.6	6.3
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°	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4
2.5°	2075.6	2076.6	2063.0	2040.0	2014.8	1993.9	1967.7	1946.8	1932.1	1927.9	1935.3
5°	2090.2	2082.9	2044.2	1974.0	1890.2	1818.0	1737.3	1673.4	1631.6	1613.8	1620.0
7.5°	2112.2	2091.3	2006.5	1868.2	1708.0	1565.6	1421.1	1309.0	1237.8	1202.2	1207.4
10°	2131.1	2089.2	1943.6	1715.3	1470.3	1254.6	1059.8	924.7	849.3	813.7	814.7
12.5°	2148.9	2088.1	1861.9	1534.2	1202.2	938.3	757.1	690.1	669.2	661.8	659.7
15°	2182.4	2091.3	1759.3	1326.8	935.2	709.0	643.0	641.9	646.1	644.0	643.0
17.5°	2228.5	2094.4	1643.1	1106.9	721.5	625.2	622.0	631.5	637.8	634.6	633.6
20°	2288.2	2107.0	1519.5	889.1	620.0	604.2	611.6	620.0	625.2	620.0	618.9
22.5°	2371.9	2129.0	1384.4	714.2	587.5	591.7	598.0	607.4	612.6	605.3	604.2
25°	2474.6	2163.5	1251.4	621.0	571.8	577.0	586.4	596.9	603.2	595.9	594.8
27.5°	2607.6	2219.0	1128.9	600.1	556.1	559.2	572.8	588.5	596.9	587.5	587.5
30°	2800.3	2310.2	1023.1	609.5	546.6	539.3	558.2	580.2	589.6	581.2	580.2
32.5°	3055.8	2439.0	958.2	624.1	542.5	516.3	534.1	562.4	578.1	572.8	572.8
35°	3390.9	2634.8	933.1	640.9	539.3	492.2	504.8	535.1	562.4	567.6	567.6
37.5°	3797.2	2907.1	940.4	648.2	529.9	472.3	478.6	504.8	540.4	557.1	561.3
40°	4259.0	3224.4	982.3	640.9	519.4	455.5	456.6	476.5	507.9	533.0	541.4
42.5°	4735.5	3595.1	1059.8	613.7	510.0	440.9	437.7	451.3	472.3	490.1	497.4
45°	5188.9	3976.3	1136.2	576.0	498.5	426.2	418.9	424.1	428.3	435.6	439.8
47.5°	5584.8	4244.4	1114.2	541.4	482.8	409.5	396.9	394.8	382.2	381.2	380.1
50°	5858.1	4303.0	989.6	506.9	459.7	390.6	370.7	358.1	336.2	325.7	326.7
52.5°	5945.0	4071.6	808.4	472.3	422.0	365.5	337.2	317.3	290.1	280.7	279.6
55°	5829.8	3618.1	646.1	430.4	369.7	332.0	300.6	274.4	252.4	240.9	240.9
57.5°	5548.1	3041.1	511.0	381.2	314.2	294.3	262.9	236.7	217.8	206.3	204.2
60°	5081.1	2414.9	404.2	322.5	268.1	253.4	221.0	204.2	187.5	173.8	170.7
62.5°	4372.1	1723.7	317.3	255.5	224.1	207.3	188.5	175.9	156.0	137.2	134.0
65°	3411.8	1054.5	245.0	187.5	180.1	171.7	160.2	148.7	124.6	105.8	102.6
67.5°	2152.0	499.5	174.9	141.4	142.4	138.2	133.0	123.6	105.8	89.0	86.9
70°	947.7	241.9	115.2	107.9	105.8	105.8	110.0	106.8	90.1	74.4	71.2
72.5°	322.5	129.9	85.9	81.7	76.4	75.4	92.2	89.0	72.3	57.6	54.5
75°	168.6	86.9	62.8	58.6	46.1	55.5	73.3	69.1	51.3	37.7	34.6
77.5°	110.0	61.8	42.9	37.7	26.2	36.7	54.5	48.2	30.4	18.8	16.8
80°	69.1	40.8	25.1	17.8	12.6	19.9	29.3	20.9	11.5	4.2	3.1
82.5°	36.7	20.9	9.4	6.3	5.2	6.3	7.3	5.2	2.1	0.0	0.0
85°	14.7	7.3	3.1	2.1	1.0	0.0	2.1	1.0	0.0	0.0	0.0
87.5°	5.2	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)