

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: P943318

Luminaire Tested: **GALN-SB7D-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943318
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-SB7D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 50823 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 512.8
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

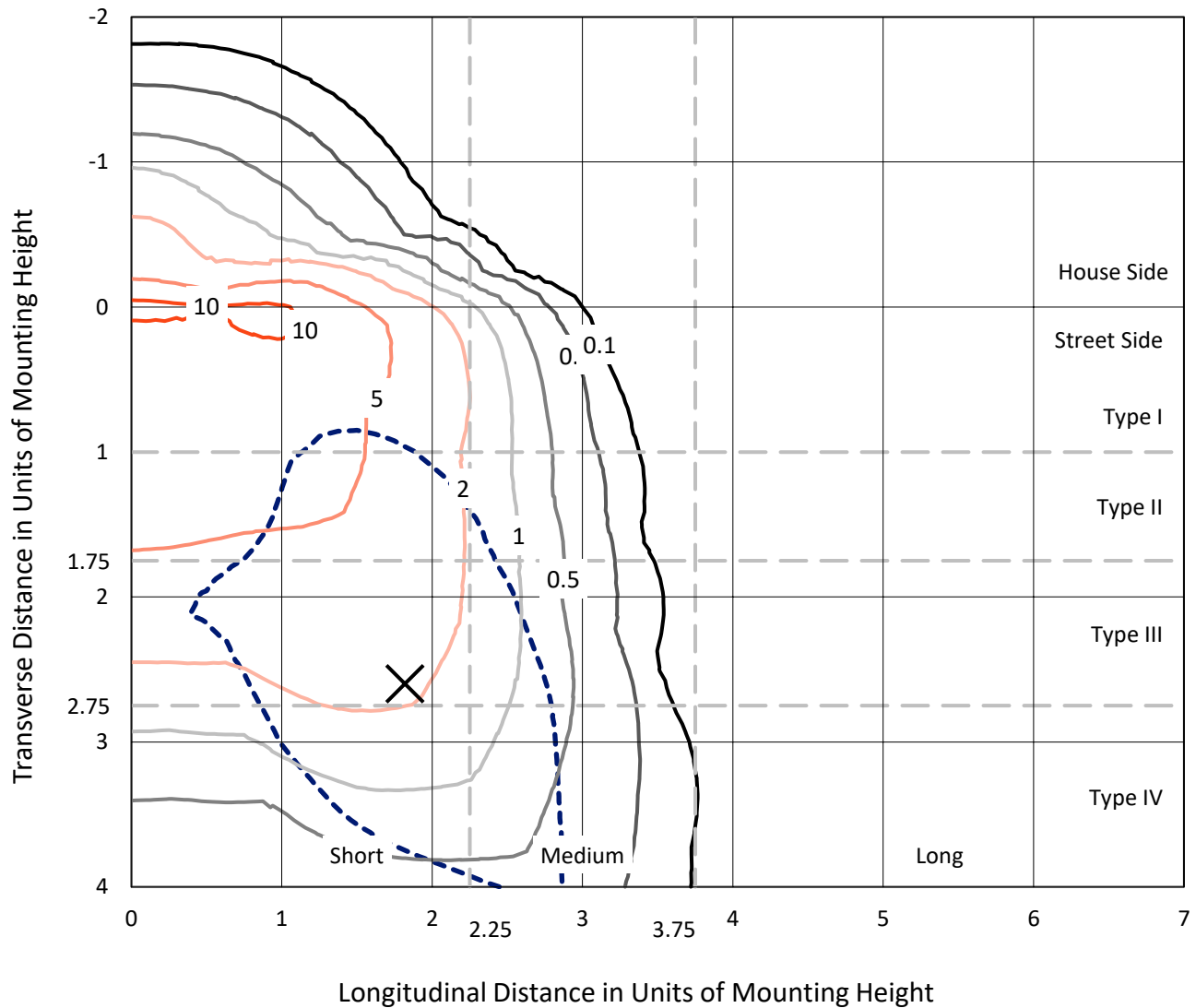


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Iso-Footcandle Lines of Horizontal Illumination

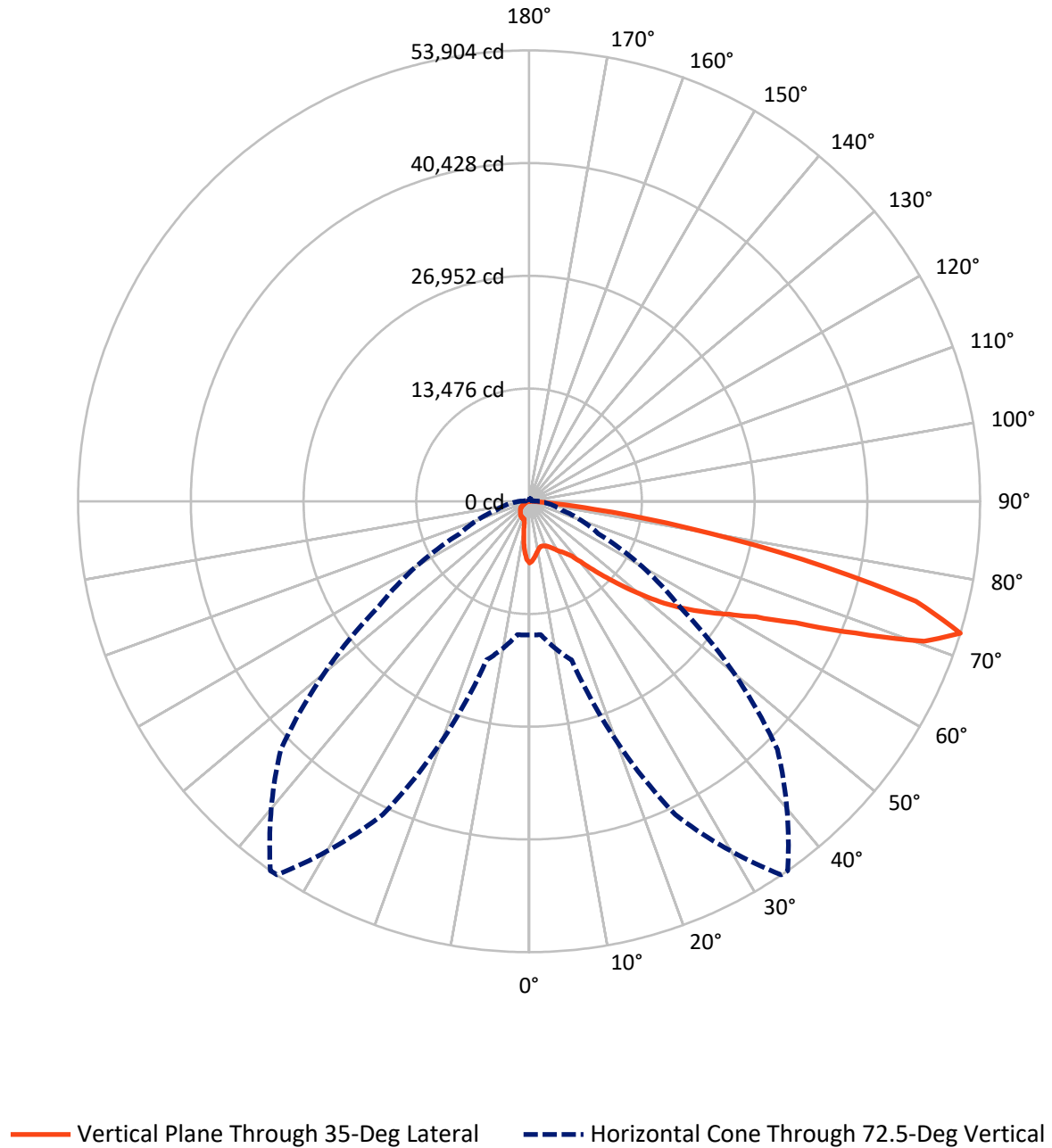
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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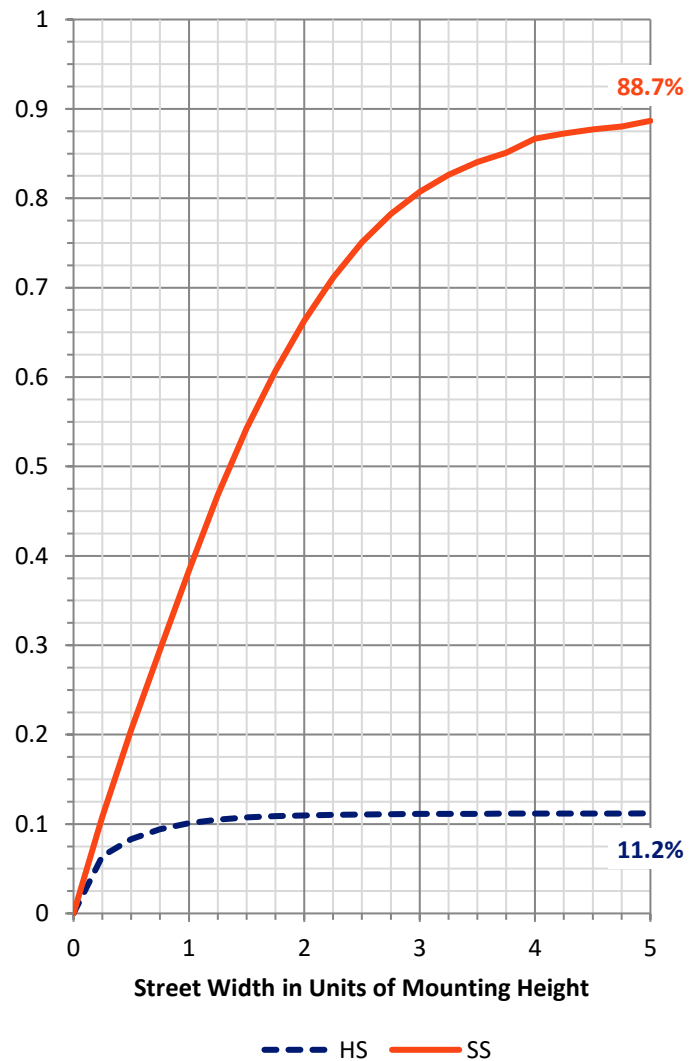
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5719.9	0.0	5719.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	45103.1	0.0	45103.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	50823.0	0.0	50823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.3	1.2
10°-20°	1416.0	2.8
20°-30°	2300.2	4.5
30°-40°	3837.9	7.6
40°-50°	7261.5	14.3
50°-60°	11538.4	22.7
60°-70°	14273.8	28.1
70°-80°	8872.7	17.5
80°-90°	717.1	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°	50823.0	100.0
0°-180°	50823.0	100.0

Coefficient of Utilization



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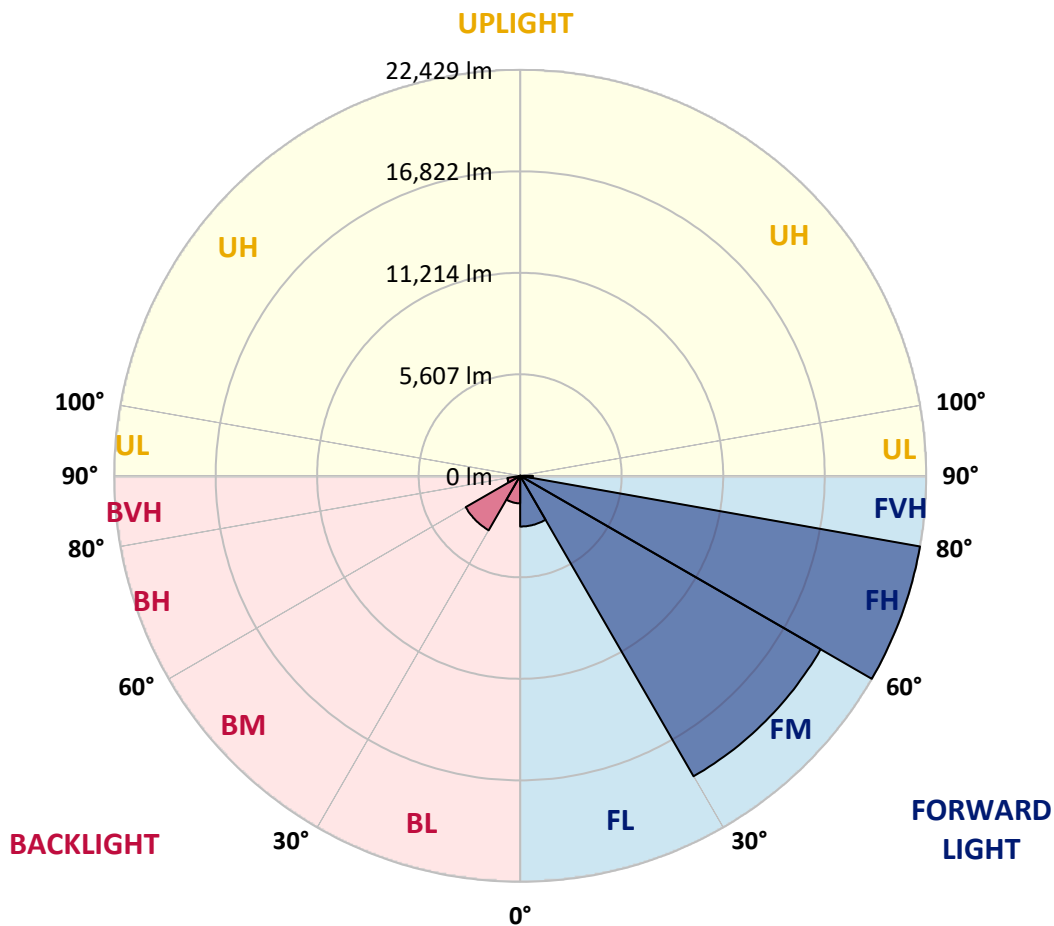
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2801.6	5.5			
FM	(30°-60°)	19165.3	37.7			
FH	(60°-80°)	22428.8	44.1			G5
FVH	(80°-90°)	707.3	1.4			G4/750
BL	(0°-30°)	1519.9	3.0	B3/2500		
BM	(30°-60°)	3472.5	6.8	B3/5000		
BH	(60°-80°)	717.8	1.4	B2/1000		G2/1000
BVH	(80°-90°)	9.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0
2.5°	7038.2	7097.8	7109.0	7127.6	7127.6	7150.0	7187.2	7239.3	7325.0	7369.7	7399.5
5°	6487.1	6531.8	6587.7	6632.3	6718.0	6729.2	6874.4	7015.9	7213.3	7362.2	7466.5
7.5°	5932.2	5984.4	6058.9	6166.8	6278.6	6312.1	6531.8	6770.1	7082.9	7362.2	7537.3
10°	5541.2	5544.9	5612.0	5720.0	5898.7	5939.7	6207.8	6546.7	6937.7	7317.5	7604.3
12.5°	5321.5	5347.6	5377.4	5459.3	5630.6	5656.7	5943.4	6341.9	6792.5	7291.5	7682.5
15°	5321.5	5340.1	5358.8	5399.7	5537.5	5559.8	5813.1	6211.5	6718.0	7302.6	7809.1
17.5°	5377.4	5407.2	5392.3	5440.7	5585.9	5600.8	5824.2	6174.3	6714.3	7373.4	8002.8
20°	5511.4	5533.8	5504.0	5533.8	5679.0	5708.8	5939.7	6245.1	6777.6	7496.3	8244.8
22.5°	5723.7	5734.9	5664.1	5686.5	5835.4	5872.7	6140.8	6446.1	6930.3	7693.7	8568.8
25°	5991.8	6014.2	5906.2	5932.2	6073.7	6118.4	6427.5	6747.8	7172.3	7965.5	8982.1
27.5°	6300.9	6312.1	6219.0	6215.3	6397.7	6461.0	6773.8	7120.2	7496.3	8308.1	9503.5
30°	6654.7	6688.2	6598.8	6583.9	6814.8	6866.9	7176.0	7578.2	7973.0	8822.0	10244.6
32.5°	6934.0	6960.0	6907.9	6945.2	7179.8	7220.7	7663.9	8226.2	8721.5	9551.9	11253.8
35°	7336.2	7351.1	7231.9	7298.9	7567.0	7671.3	8330.5	9134.8	9663.6	10468.0	12572.0
37.5°	8792.2	8792.2	8285.8	7954.3	8211.3	8304.4	9242.8	10278.1	10825.5	11696.9	14232.9
40°	10806.9	10773.4	10032.3	9354.5	9321.0	9503.5	10542.5	11719.2	12326.2	13171.6	16102.3
42.5°	12955.6	12903.5	11894.3	11224.0	11112.2	11175.5	12043.2	13495.6	14113.7	14970.2	18113.3
45°	14862.3	14847.4	13923.8	13022.6	12821.5	13022.6	13916.4	15573.5	16016.7	16917.9	20120.5
47.5°	16459.8	16459.8	15785.8	15197.4	15093.1	15212.3	16452.4	17878.6	17837.7	18992.1	22075.5
50°	18299.4	18284.6	17644.0	17390.8	17498.8	17666.4	19371.9	20306.7	19722.0	21029.1	23822.1
52.5°	19587.9	19677.3	19457.6	19416.6	19967.8	20258.2	22336.2	22682.5	21408.9	22961.8	25129.2
55°	20608.3	20712.6	20965.8	21252.5	22313.9	22693.7	25207.4	24935.5	22820.3	24637.6	25881.4
57.5°	22053.2	21904.2	22295.2	22861.3	24578.0	25036.1	27989.1	27061.9	23956.1	25996.8	25963.3
60°	23807.2	23829.5	23896.5	24611.5	26838.4	27426.8	30730.0	29072.8	24686.0	26831.0	25054.7
62.5°	25914.9	25948.4	26086.2	27184.8	29873.5	30428.3	33649.5	30718.8	25021.2	26596.4	22708.6
65°	25769.7	25911.2	27449.2	31206.6	34487.4	35034.8	37056.9	31873.2	24514.7	24451.4	18489.4
67.5°	23475.7	23706.6	26279.9	36010.5	41443.7	42054.5	41175.6	32100.4	22328.8	19014.4	12061.8
70°	20466.8	20548.7	23643.3	40330.3	49498.6	50116.8	44862.3	29601.6	16943.9	10605.8	5403.4
72.5°	15983.2	16001.8	19632.6	41332.0	53870.5	53904.1	41968.8	21975.0	9112.5	4074.0	1876.9
75°	11417.6	11305.9	13149.2	33519.2	47394.6	47774.4	31463.6	10307.9	3481.9	1925.3	934.7
77.5°	6122.2	6245.1	7440.4	19878.4	32740.9	33388.9	17167.4	2971.7	1772.6	1310.8	618.2
80°	1891.8	1996.0	3049.9	9101.3	18545.2	18936.2	6364.2	1322.0	1236.3	934.7	405.9
82.5°	595.8	618.2	1422.5	3824.5	7697.4	7876.1	1843.4	748.5	845.3	618.2	238.3
85°	171.3	175.0	633.1	1426.3	1902.9	1940.2	517.6	290.5	484.1	383.6	122.9
87.5°	18.6	59.6	238.3	238.3	167.6	163.9	55.9	63.3	137.8	48.4	22.3
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°	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0
2.5°	7380.9	7384.6	7336.2	7254.2	7164.9	7090.4	6997.3	6922.8	6870.7	6855.8	6881.8
5°	7433.0	7406.9	7269.1	7019.6	6721.7	6464.8	6178.0	5950.9	5801.9	5738.6	5760.9
7.5°	7511.2	7436.7	7135.1	6643.5	6073.7	5567.3	5053.4	4654.9	4401.7	4275.1	4293.7
10°	7578.2	7429.3	6911.6	6099.8	5228.4	4461.3	3768.6	3288.2	3020.1	2893.5	2897.2
12.5°	7641.5	7425.5	6621.2	5455.6	4275.1	3336.7	2692.4	2454.1	2379.6	2353.5	2346.1
15°	7760.7	7436.7	6256.2	4718.2	3325.5	2521.1	2286.5	2282.8	2297.7	2290.2	2286.5
17.5°	7924.5	7447.9	5842.9	3936.2	2565.8	2223.2	2212.0	2245.5	2267.9	2256.7	2253.0
20°	8136.8	7492.6	5403.4	3161.6	2204.6	2148.7	2174.8	2204.6	2223.2	2204.6	2200.8
22.5°	8434.7	7570.8	4923.1	2539.7	2089.1	2104.0	2126.4	2159.9	2178.5	2152.4	2148.7
25°	8799.7	7693.7	4450.1	2208.3	2033.3	2051.9	2085.4	2122.6	2145.0	2118.9	2115.2
27.5°	9272.6	7891.0	4014.4	2133.8	1977.4	1988.6	2037.0	2092.9	2122.6	2089.1	2089.1
30°	9957.8	8215.0	3638.3	2167.3	1943.9	1917.8	1984.9	2063.1	2096.6	2066.8	2063.1
32.5°	10866.5	8673.1	3407.4	2219.5	1929.0	1835.9	1899.2	1999.8	2055.6	2037.0	2037.0
35°	12058.1	9369.4	3318.0	2279.1	1917.8	1750.3	1794.9	1902.9	1999.8	2018.4	2018.4
37.5°	13503.0	10337.7	3344.1	2305.1	1884.3	1679.5	1701.8	1794.9	1921.6	1981.1	1996.0
40°	15145.3	11466.0	3493.1	2279.1	1847.1	1619.9	1623.6	1694.4	1806.1	1895.5	1925.3
42.5°	16839.7	12784.3	3768.6	2182.2	1813.6	1567.8	1556.6	1605.0	1679.5	1742.8	1768.9
45°	18452.1	14139.8	4040.5	2048.2	1772.6	1515.6	1489.6	1508.2	1523.1	1549.2	1564.1
47.5°	19859.8	15093.1	3962.3	1925.3	1716.7	1456.1	1411.4	1403.9	1359.2	1355.5	1351.8
50°	20831.7	15301.7	3519.1	1802.4	1634.8	1389.0	1318.3	1273.6	1195.4	1158.1	1161.9
52.5°	21140.8	14478.7	2874.9	1679.5	1500.7	1299.7	1199.1	1128.4	1031.5	998.0	994.3
55°	20731.2	12866.2	2297.7	1530.5	1314.6	1180.5	1068.8	975.7	897.5	856.5	856.5
57.5°	19729.4	10814.3	1817.3	1355.5	1117.2	1046.4	934.7	841.6	774.6	733.6	726.2
60°	18068.6	8587.4	1437.4	1147.0	953.3	901.2	785.8	726.2	666.6	618.2	607.0
62.5°	15547.5	6129.6	1128.4	908.6	796.9	737.3	670.3	625.6	554.9	487.8	476.7
65°	12132.6	3750.0	871.4	666.6	640.5	610.7	569.8	528.8	443.1	376.1	364.9
67.5°	7652.7	1776.3	621.9	502.7	506.5	491.6	472.9	439.4	376.1	316.5	309.1
70°	3370.2	860.2	409.6	383.6	376.1	376.1	391.0	379.8	320.3	264.4	253.2
72.5°	1147.0	461.8	305.4	290.5	271.8	268.1	327.7	316.5	257.0	204.8	193.6
75°	599.6	309.1	223.4	208.5	163.9	197.4	260.7	245.8	182.5	134.1	122.9
77.5°	391.0	219.7	152.7	134.1	93.1	130.3	193.6	171.3	108.0	67.0	59.6
80°	245.8	145.2	89.4	63.3	44.7	70.8	104.3	74.5	41.0	14.9	11.2
82.5°	130.3	74.5	33.5	22.3	18.6	22.3	26.1	18.6	7.4	0.0	0.0
85°	52.1	26.1	11.2	7.4	3.7	0.0	7.4	3.7	0.0	0.0	0.0
87.5°	18.6	3.7	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)