

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: P954510

Luminaire Tested: **GALN-SB7D-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66993 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - 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

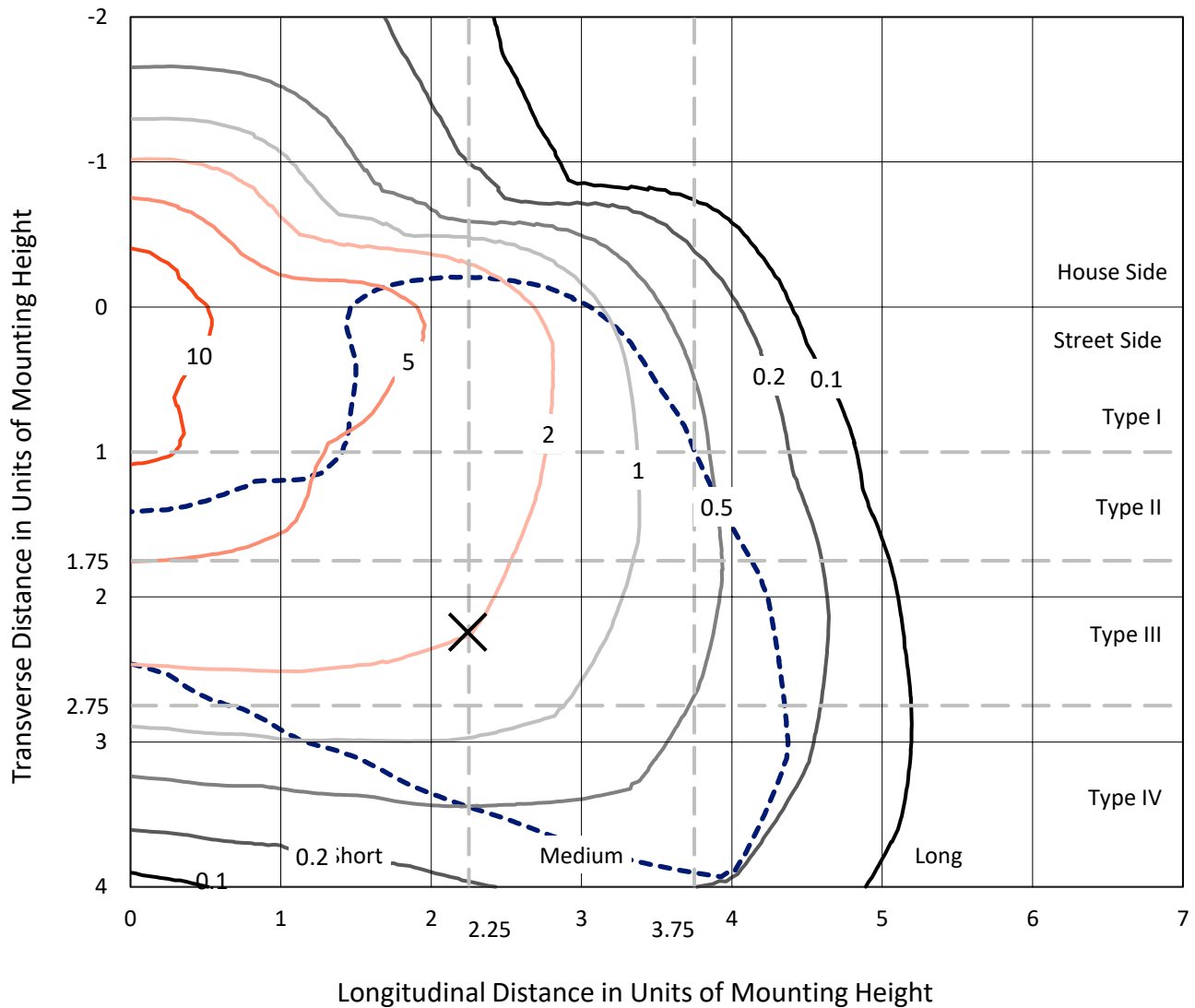


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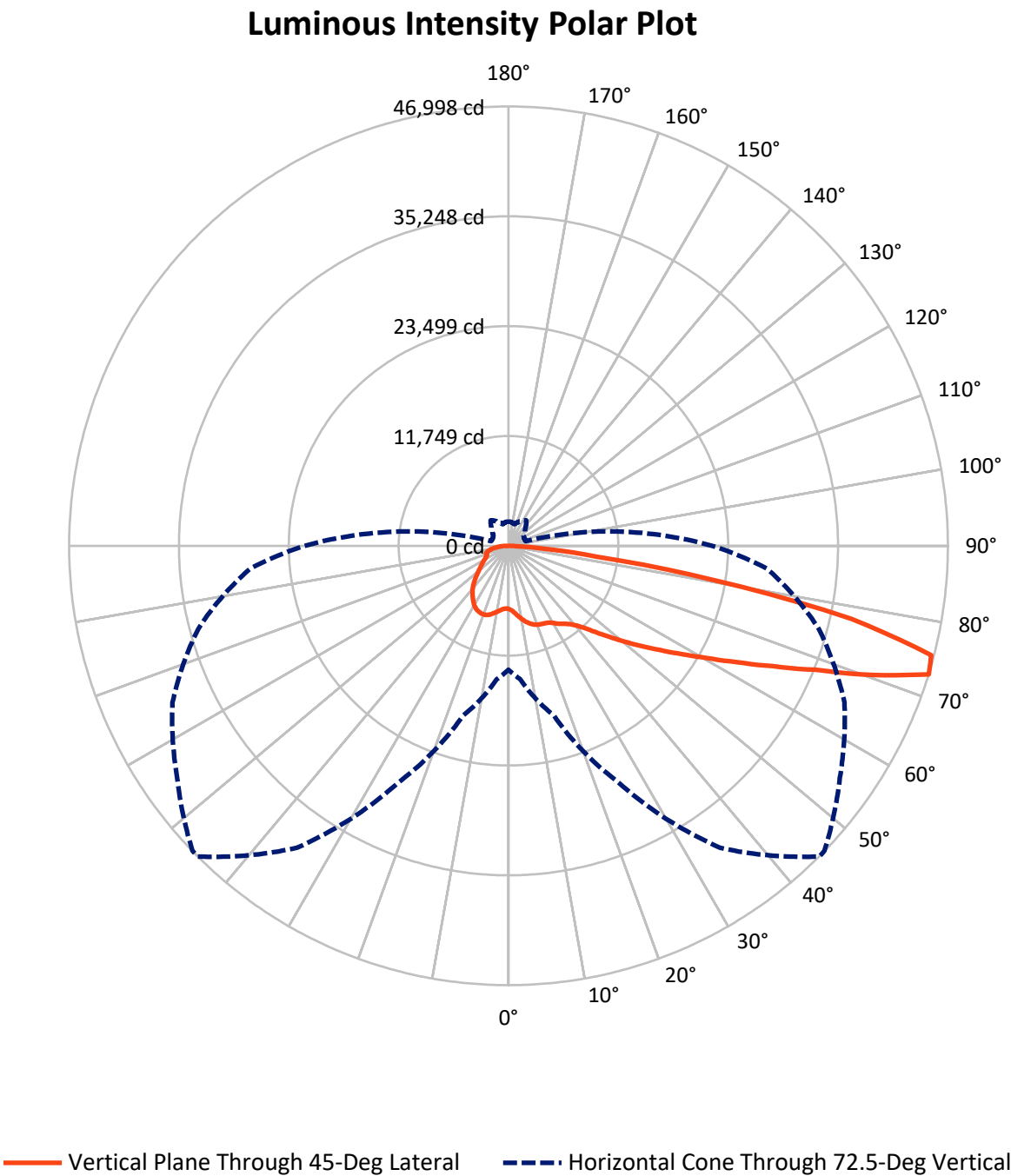
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type IV - Short - N/A

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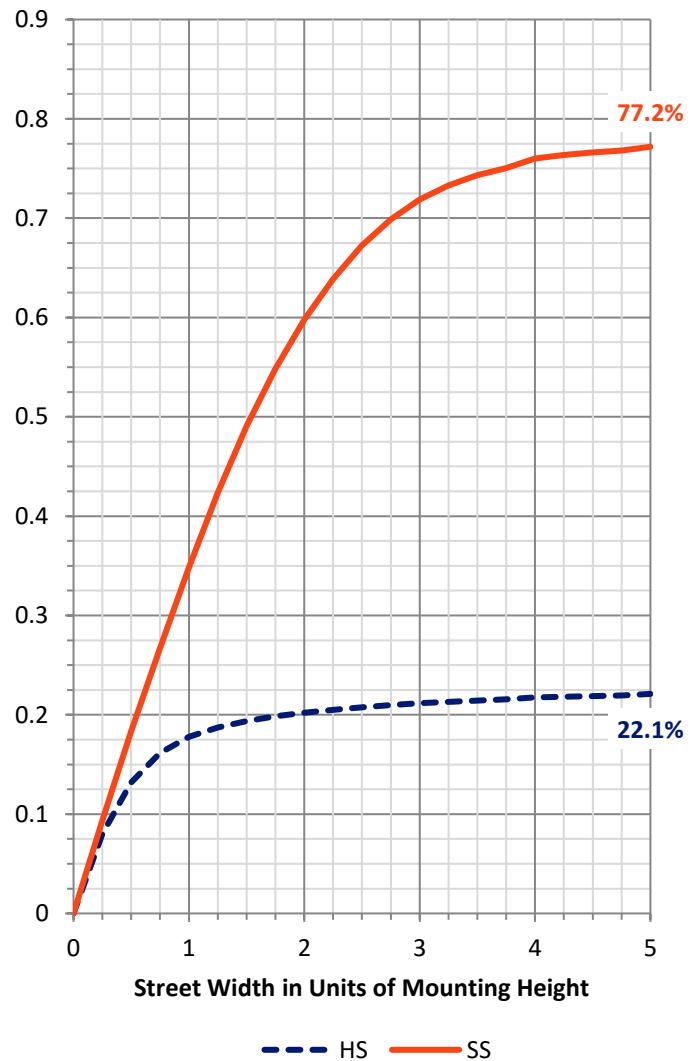
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15144.8	0.0	15144.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	51848.2	0.0	51848.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	66993.0	0.0	66993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.9	1.0
10°-20°	2293.4	3.4
20°-30°	3989.5	6.0
30°-40°	5719.2	8.5
40°-50°	8053.0	12.0
50°-60°	12334.8	18.4
60°-70°	17868.8	26.7
70°-80°	14269.3	21.3
80°-90°	1777.2	2.7
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°	66993.0	100.0
0°-180°	66993.0	100.0

Coefficient of Utilization



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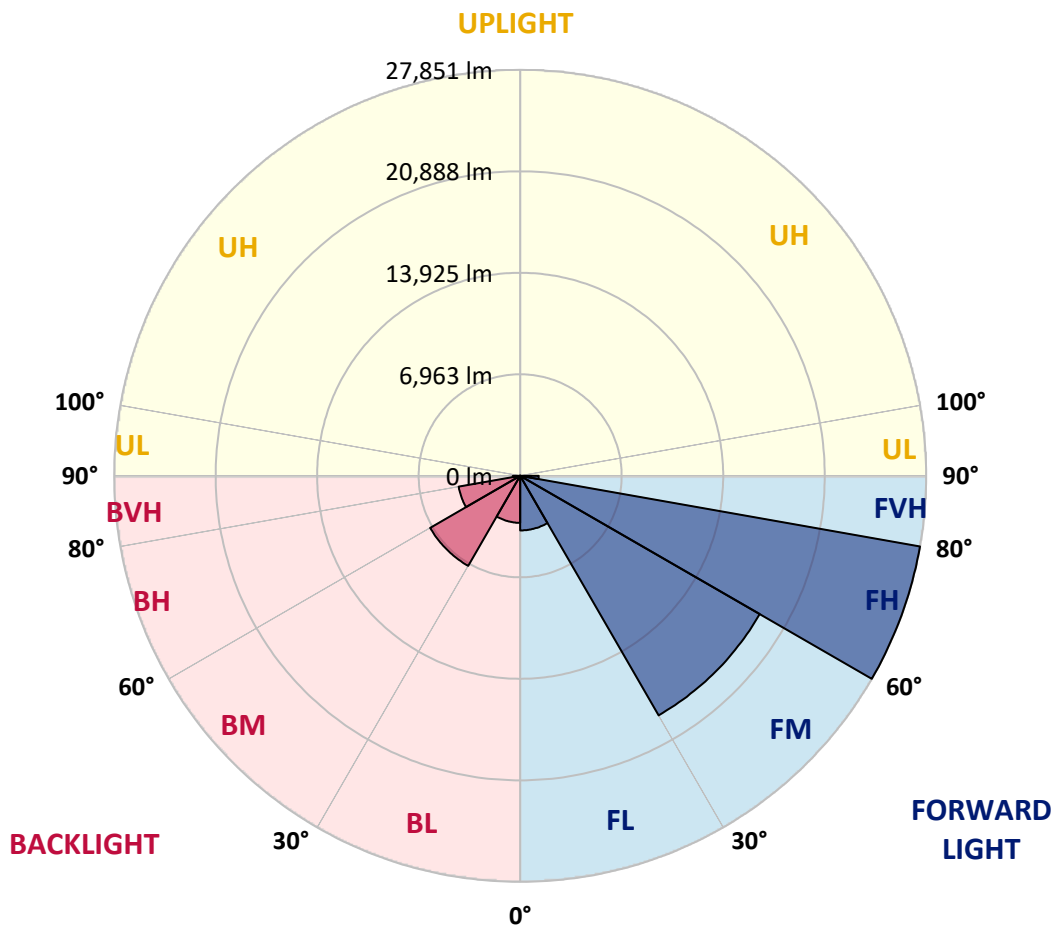
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3746.3	5.6			
FM	(30°-60°)	18975.9	28.3			
FH	(60°-80°)	27851.0	41.6			G5
FVH	(80°-90°)	1275.0	1.9			G5
BL	(0°-30°)	3224.5	4.8	B4/5000		
BM	(30°-60°)	7131.1	10.6	B4/8500		
BH	(60°-80°)	4287.1	6.4	B4/5000		G4/5000
BVH	(80°-90°)	502.2	0.7			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	6758.3	6758.3	6758.3	6758.3	6758.3	6758.3	6758.3	6758.3	6758.3	6758.3	6758.3
2.5°	7023.0	7068.9	7026.5	6987.7	6970.0	6924.2	6920.6	6892.4	6874.8	6825.3	6811.2
5°	7513.5	7573.5	7502.9	7425.3	7354.7	7241.8	7227.7	7146.5	7054.7	6948.9	6888.9
7.5°	8067.6	8120.5	8039.4	7922.9	7799.4	7612.3	7608.8	7460.6	7315.9	7135.9	7033.6
10°	8551.1	8621.7	8512.3	8353.5	8198.2	7986.4	7961.7	7792.3	7608.8	7375.9	7220.6
12.5°	8978.1	9027.5	8921.6	8727.5	8547.6	8335.8	8304.1	8117.0	7912.3	7647.6	7450.0
15°	9316.9	9380.4	9239.3	9031.1	8840.5	8632.3	8604.0	8434.6	8229.9	7951.1	7697.0
17.5°	9539.2	9592.2	9447.5	9214.6	9031.1	8858.1	8836.9	8695.8	8515.8	8233.5	7961.7
20°	9623.9	9680.4	9528.7	9292.2	9122.8	8988.7	8978.1	8875.8	8752.2	8494.6	8219.4
22.5°	9708.6	9761.6	9564.0	9316.9	9168.7	9084.0	9080.5	9013.4	8964.0	8752.2	8484.0
25°	10051.0	10065.1	9800.4	9444.0	9232.2	9158.1	9154.6	9151.0	9172.2	9006.3	8769.9
27.5°	10347.4	10343.9	10118.0	9782.8	9454.5	9299.3	9295.7	9331.0	9398.1	9260.4	9066.3
30°	10781.5	10742.7	10474.5	10125.1	9825.1	9585.1	9564.0	9532.2	9585.1	9475.7	9362.8
32.5°	11702.6	11579.1	11145.0	10523.9	10132.1	9948.6	9920.4	9722.8	9743.9	9676.9	9620.4
35°	13022.5	12860.2	12281.4	11279.1	10513.3	10252.1	10238.0	9987.4	9945.1	9885.1	9906.3
37.5°	14593.0	14391.8	13717.7	12373.1	11169.7	10605.0	10583.9	10358.0	10185.1	10121.6	10241.5
40°	16170.5	15916.4	15358.8	13707.2	12136.7	11194.4	11127.4	10785.0	10587.4	10481.5	10735.6
42.5°	17702.1	17490.4	17014.0	15203.5	13329.5	12055.5	11907.3	11321.5	11173.2	11074.4	11533.2
45°	19057.3	18866.7	18517.4	16802.2	14727.1	13227.2	13082.5	12126.1	12080.2	12080.2	12743.7
47.5°	20158.4	20116.1	19745.5	18432.7	16375.2	14561.2	14310.6	13244.8	13368.4	13558.9	14462.4
50°	21379.5	21263.0	20867.8	20038.4	18312.7	16089.3	15884.6	14617.7	15080.0	15602.3	16946.9
52.5°	22501.8	22565.3	22124.1	21711.2	20500.7	17793.9	17433.9	16237.5	17236.3	18100.9	19858.4
55°	23655.8	23659.3	23535.8	23479.3	22794.7	19678.4	19283.2	18185.6	19773.7	20846.6	23253.5
57.5°	24739.2	24746.3	24929.8	25427.4	25455.6	21852.4	21404.2	20578.4	22593.5	23687.5	26754.4
60°	25706.2	25755.6	26256.7	27421.4	27795.5	24344.0	23920.5	23405.2	25508.6	26609.7	30435.2
62.5°	26030.9	26210.9	27326.1	28981.2	30107.0	27400.2	26983.8	26676.7	28571.9	29595.3	33512.6
65°	25480.3	25893.2	28049.5	30269.4	32485.7	31031.7	30618.8	30283.5	31755.1	32718.6	36039.5
67.5°	24128.7	24661.6	28007.2	31621.0	35372.5	35400.7	35016.1	34229.1	35167.8	35538.4	36861.8
70°	20567.8	21365.4	25540.3	32125.7	38686.4	41375.6	41005.0	38979.3	38573.4	36780.6	34546.7
72.5°	13251.9	14324.8	18806.7	27971.9	39423.9	46997.5	46976.3	43267.2	39649.8	34366.7	27707.2
75°	4834.9	5491.3	8738.1	17557.4	33092.7	46711.6	46849.2	42533.1	36194.8	26546.1	17261.0
77.5°	1761.0	1926.9	2851.5	6747.7	20352.5	37479.4	37765.3	34003.2	25762.7	13322.5	6839.5
80°	924.6	1016.4	1461.1	2618.6	8720.5	22258.2	22706.4	20207.8	12108.5	4012.6	2050.4
82.5°	511.7	554.1	818.8	1422.2	3927.9	9518.1	9786.3	7982.9	4259.7	1701.0	847.0
85°	275.3	292.9	384.7	776.4	1919.8	3299.7	3373.9	2385.7	1697.5	998.7	409.4
87.5°	81.2	98.8	127.0	247.0	751.7	741.1	758.8	472.9	670.5	504.7	134.1
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°	6758.3	6758.3	6758.3	6758.3	6758.3	6758.3	6758.3	6758.3	6758.3	6758.3	6758.3
2.5°	6790.1	6779.5	6740.6	6723.0	6701.8	6698.3	6715.9	6719.5	6723.0	6726.5	6740.6
5°	6853.6	6818.3	6783.0	6761.8	6768.9	6772.4	6807.7	6832.4	6850.0	6864.2	6871.2
7.5°	6977.1	6948.9	6888.9	6885.3	6895.9	6927.7	6973.6	7030.0	7061.8	7086.5	7093.6
10°	7160.6	7107.7	7037.1	7047.7	7068.9	7114.7	7210.0	7255.9	7308.8	7354.7	7344.1
12.5°	7347.7	7301.8	7220.6	7227.7	7263.0	7344.1	7435.9	7492.3	7527.6	7562.9	7577.0
15°	7591.2	7510.0	7421.8	7421.8	7485.3	7573.5	7615.9	7661.7	7682.9	7721.7	7735.9
17.5°	7841.7	7735.9	7619.4	7612.3	7690.0	7732.3	7757.0	7764.1	7771.2	7813.5	7827.6
20°	8092.3	7975.8	7810.0	7795.9	7813.5	7806.4	7802.9	7795.9	7806.4	7859.4	7880.6
22.5°	8339.3	8205.2	7975.8	7912.3	7862.9	7795.9	7792.3	7788.8	7795.9	7848.8	7884.1
25°	8628.7	8466.4	8159.4	7968.8	7802.9	7711.2	7721.7	7725.3	7732.3	7774.7	7831.1
27.5°	8942.8	8762.8	8328.8	7951.1	7651.2	7587.6	7570.0	7580.6	7605.3	7672.3	7739.4
30°	9256.9	9045.2	8484.0	7880.6	7460.6	7372.4	7315.9	7340.6	7418.2	7485.3	7559.4
32.5°	9542.8	9331.0	8607.6	7725.3	7217.1	7079.4	7005.3	7037.1	7114.7	7139.4	7227.7
35°	9878.0	9638.1	8660.5	7478.2	6952.4	6740.6	6641.8	6595.9	6634.8	6610.1	6687.7
37.5°	10252.1	10001.6	8653.4	7153.6	6641.8	6398.3	6260.7	6087.8	6006.6	5921.9	5974.8
40°	10806.2	10446.2	8568.7	6761.8	6257.2	6034.8	5787.8	5494.9	5311.3	5145.5	5156.1
42.5°	11561.4	11063.8	8413.5	6331.3	5823.1	5614.9	5279.6	4937.3	4647.9	4372.6	4347.9
45°	12687.2	11872.0	8219.4	5872.5	5353.7	5149.0	4785.5	4400.8	4072.6	3719.7	3677.4
47.5°	14310.6	12959.0	8035.8	5350.2	4859.6	4672.6	4344.4	3987.9	3599.7	3257.4	3218.6
50°	16541.0	14518.9	7866.4	4842.0	4372.6	4231.4	3970.3	3606.8	3215.0	2939.8	2922.1
52.5°	19378.5	16639.9	7795.9	4351.4	3917.3	3864.4	3656.2	3317.4	2946.8	2713.9	2696.3
55°	22635.9	19177.3	7795.9	3882.0	3518.5	3536.2	3391.5	3077.4	2756.3	2548.0	2526.9
57.5°	25960.3	21746.5	7654.7	3448.0	3179.7	3253.9	3162.1	2886.8	2597.4	2382.2	2346.9
60°	29023.6	23899.3	7083.0	3052.7	2879.8	2996.2	2936.2	2699.8	2346.9	2166.9	2138.7
62.5°	31377.5	25113.3	5981.9	2738.6	2632.7	2766.8	2735.1	2452.7	2301.0	2226.9	2202.2
65°	32556.3	24915.7	4573.8	2459.8	2424.5	2632.7	2565.7	2555.1	2435.1	2350.4	2322.2
67.5°	31832.8	23214.6	3317.4	2255.1	2304.5	2509.2	2766.8	2809.2	2586.9	2421.0	2392.8
70°	28660.1	20137.2	2470.4	2061.0	2152.8	2512.7	3155.0	2939.8	2537.4	2343.3	2311.6
72.5°	21803.0	15016.5	1916.3	1856.3	1955.1	2530.4	3328.0	2879.8	2396.3	2590.4	2569.2
75°	12468.4	8244.1	1538.7	1605.8	1708.1	2364.5	3239.7	2724.5	2286.9	2378.6	2378.6
77.5°	4753.7	3169.2	1270.5	1358.7	1372.8	2064.5	3098.6	2713.9	2177.5	2124.5	1937.5
80°	1648.1	1238.7	1051.7	1079.9	1062.3	1835.1	2971.5	2361.0	1782.2	1595.2	1542.2
82.5°	674.1	617.6	832.9	797.6	755.2	1425.8	2399.8	1930.4	1457.5	1288.1	1274.0
85°	292.9	391.7	550.5	483.5	437.6	988.2	1923.4	1634.0	1231.7	1062.3	1058.7
87.5°	60.0	148.2	232.9	218.8	225.9	659.9	1365.8	1161.1	871.7	652.9	511.7
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)