

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: P951994

Luminaire Tested: **GALN-SB6A-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25660 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 170.9
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

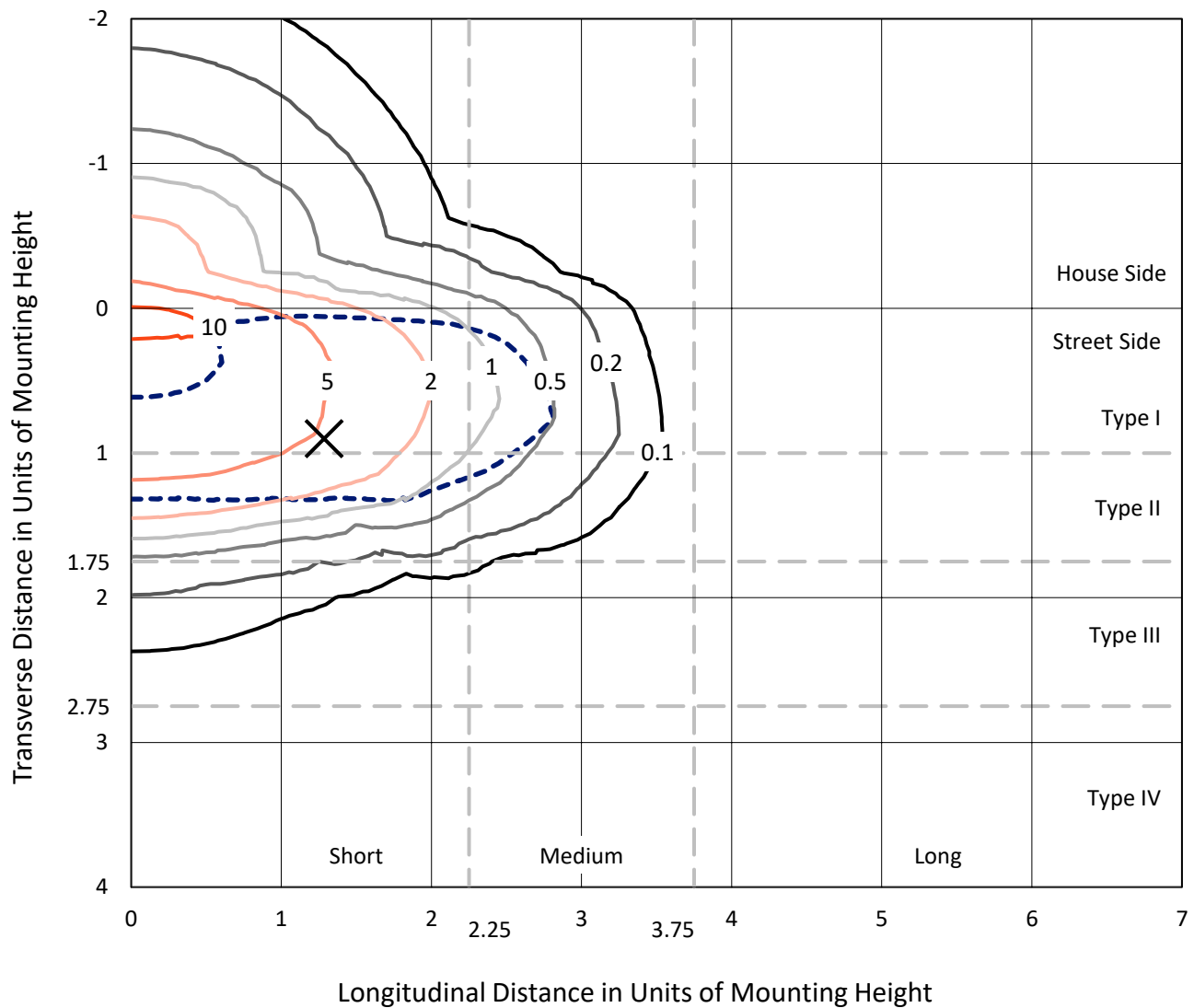


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

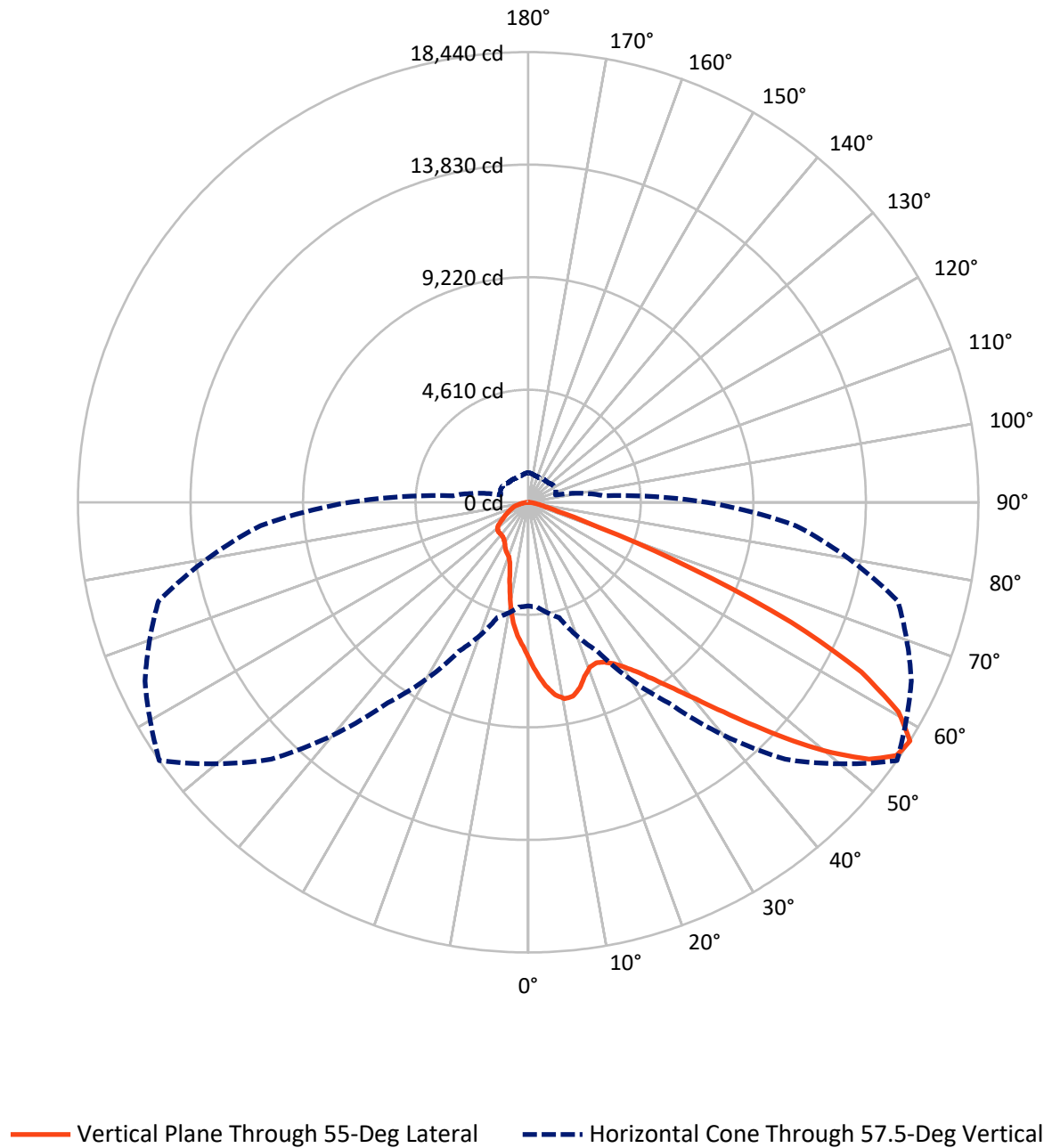


Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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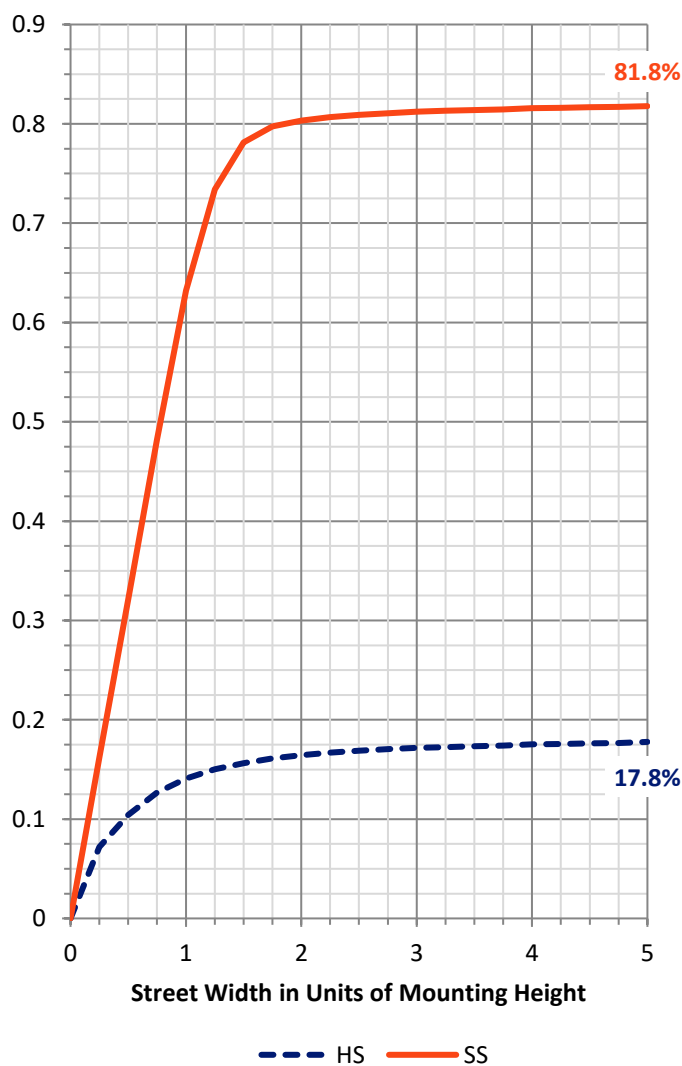
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4643.0	0.0	4643.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21016.9	0.0	21016.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	25660.0	0.0	25660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.6	2.3
10°-20°	1505.9	5.9
20°-30°	2403.0	9.4
30°-40°	3804.6	14.8
40°-50°	5823.3	22.7
50°-60°	6237.2	24.3
60°-70°	3923.9	15.3
70°-80°	1160.4	4.5
80°-90°	205.2	0.8
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°	25660.0	100.0
0°-180°	25660.0	100.0

Coefficient of Utilization



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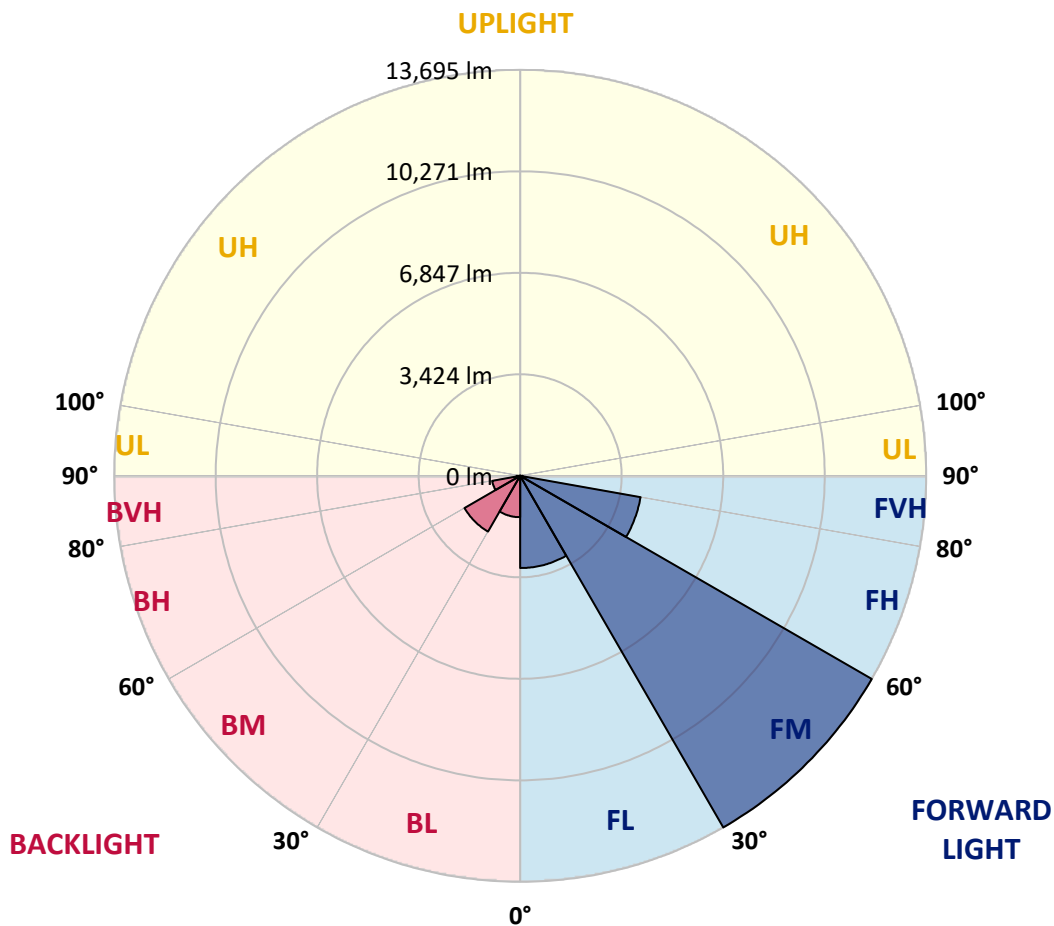
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3110.0	12.1			
FM	(30°-60°)	13694.9	53.4			
FH	(60°-80°)	4125.3	16.1			G2/5000
FVH	(80°-90°)	86.7	0.3			G1/100
BL	(0°-30°)	1395.5	5.4	B3/2500		
BM	(30°-60°)	2170.1	8.5	B2/2500		
BH	(60°-80°)	958.9	3.7	B2/1000		G2/1000
BVH	(80°-90°)	118.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6429.6	6429.6	6429.6	6429.6	6429.6	6429.6	6429.6	6429.6	6429.6	6429.6	6429.6
2.5°	7376.7	7371.4	7400.6	7301.1	7233.4	7141.9	7021.2	6867.3	6701.5	6526.4	6450.8
5°	8041.3	7994.8	8025.3	7951.1	7876.8	7738.8	7559.7	7309.0	7002.6	6653.7	6468.0
7.5°	7936.5	7904.6	7982.9	8049.2	8104.9	8087.7	7956.4	7693.7	7298.4	6791.7	6522.4
10°	7091.5	7055.7	7165.8	7395.3	7732.2	8025.3	8184.5	8021.4	7600.9	6942.9	6575.5
12.5°	6346.0	6328.7	6401.7	6587.4	6961.5	7523.9	8155.3	8307.9	7915.2	7122.0	6647.1
15°	6027.6	6006.4	6052.8	6147.0	6385.8	6909.8	7890.0	8504.2	8224.3	7328.9	6761.2
17.5°	5957.3	5933.5	5953.3	6002.4	6156.3	6555.6	7489.4	8601.0	8546.7	7559.7	6856.7
20°	6087.3	6067.4	6070.1	6067.4	6174.9	6491.9	7210.9	8563.9	8827.9	7772.0	6949.6
22.5°	6401.7	6368.5	6369.9	6299.6	6357.9	6603.3	7137.9	8464.4	9078.6	7957.7	7019.9
25°	6913.7	6854.0	6866.0	6686.9	6671.0	6852.7	7252.0	8387.5	9328.0	8106.3	7033.1
27.5°	7614.1	7546.5	7510.7	7244.0	7116.7	7206.9	7484.1	8414.0	9564.1	8234.9	7000.0
30°	8489.6	8407.4	8334.4	7956.4	7725.6	7692.4	7844.9	8589.1	9842.7	8370.2	6942.9
32.5°	9562.8	9467.3	9334.6	8833.2	8508.2	8334.4	8311.9	8900.8	10169.0	8542.7	6913.7
35°	10840.2	10715.5	10527.1	9878.5	9467.3	9111.8	8927.4	9350.5	10616.0	8802.7	6946.9
37.5°	12156.1	12015.5	11843.0	11071.0	10565.6	10041.6	9678.2	9960.7	11211.6	9155.5	7034.4
40°	13369.8	13212.0	13051.5	12364.3	11821.8	11190.4	10597.4	10732.7	11939.9	9577.4	7183.0
42.5°	14086.1	13969.4	13908.4	13537.0	13117.8	12477.1	11740.9	11648.0	12758.3	10062.9	7352.8
45°	14054.3	14006.6	14194.9	14348.8	14249.3	13893.8	13080.7	12660.2	13579.4	10483.4	7509.3
47.5°	13303.5	13335.3	13755.8	14620.7	15001.4	15187.1	14606.1	13653.7	14293.1	10797.7	7579.6
50°	11260.7	11287.2	12260.9	14125.9	15195.1	16241.7	16119.7	14623.4	14846.2	10990.1	7563.7
52.5°	9643.7	9660.9	10078.8	12658.8	14555.7	16772.3	17483.3	15537.3	15250.8	11043.1	7474.8
55°	7263.9	7323.6	7791.9	9931.5	12892.3	16351.8	18313.7	16479.2	15506.8	11048.4	7382.0
57.5°	4243.5	4308.5	4886.8	6741.3	10020.4	14886.0	18439.7	17314.9	15680.6	11006.0	7326.3
60°	2078.6	2106.5	2358.5	3543.1	6178.9	12061.9	17426.3	17719.4	15777.4	10983.5	7323.6
62.5°	1400.8	1396.8	1407.4	1748.3	3044.3	7749.4	15314.5	17011.1	15725.7	10897.2	7297.1
65°	1204.5	1189.9	1150.1	1227.0	1577.2	3544.4	11832.4	14896.6	15331.7	10681.0	7115.4
67.5°	1041.3	1042.6	1044.0	1020.1	1126.2	1635.6	7230.8	11734.3	13917.7	9656.9	6415.0
70°	862.2	874.2	879.5	879.5	917.9	1073.1	3086.8	8042.6	10978.1	7571.7	5166.7
72.5°	785.3	760.1	762.7	749.5	749.5	817.1	1242.9	4559.2	6916.4	4259.4	3153.1
75°	640.7	656.6	659.3	650.0	619.5	623.5	737.5	1912.8	2959.4	1766.9	1558.6
77.5°	553.2	553.2	558.5	551.8	527.9	466.9	492.1	741.5	1006.8	724.3	778.7
80°	444.4	443.1	465.6	478.9	441.7	344.9	314.4	409.9	447.0	318.4	404.6
82.5°	216.2	229.5	319.7	364.8	335.6	249.4	192.3	254.7	238.8	140.6	181.7
85°	126.0	119.4	143.3	203.0	192.3	138.0	92.9	132.7	124.7	71.6	73.0
87.5°	39.8	37.1	29.2	69.0	55.7	38.5	25.2	38.5	34.5	15.9	15.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6429.6	6429.6	6429.6	6429.6	6429.6	6429.6	6429.6	6429.6	6429.6	6429.6
2.5°	6356.6	6200.1	6044.9	5902.9	5816.7	5761.0	5705.3	5642.9	5619.1	5583.3
5°	6292.9	5990.5	5721.2	5489.1	5278.2	5112.3	4945.2	4809.9	4748.9	4790.0
7.5°	6255.8	5818.0	5402.8	4977.0	4567.2	4239.5	3954.3	3754.0	3663.8	3686.4
10°	6222.6	5623.0	4990.3	4317.8	3728.8	3322.9	3031.1	2878.5	2821.5	2833.4
12.5°	6192.1	5404.2	4492.9	3608.1	2982.0	2714.0	2630.5	2631.8	2642.4	2650.4
15°	6186.8	5140.2	3937.1	2987.3	2578.7	2561.5	2651.7	2708.7	2739.2	2748.5
17.5°	6178.9	4824.5	3370.6	2564.1	2480.6	2597.3	2680.9	2718.0	2741.9	2743.2
20°	6147.0	4423.9	2848.0	2362.5	2459.3	2560.2	2611.9	2641.1	2661.0	2667.6
22.5°	6048.9	3978.2	2440.8	2272.3	2374.4	2455.4	2516.4	2549.5	2561.5	2569.4
25°	5872.4	3479.4	2159.5	2186.1	2256.4	2358.5	2407.6	2414.2	2410.3	2422.2
27.5°	5641.6	2944.8	1984.4	2069.3	2159.5	2247.1	2273.6	2269.6	2261.7	2275.0
30°	5363.1	2464.6	1873.0	1938.0	2061.4	2141.0	2164.9	2155.6	2139.7	2154.2
32.5°	5068.6	2072.0	1781.5	1846.5	1980.5	2058.7	2082.6	2073.3	2061.4	2073.3
35°	4794.0	1797.4	1696.6	1785.5	1916.8	1993.7	2024.2	2025.6	2025.6	2040.2
37.5°	4541.9	1636.9	1626.3	1747.0	1873.0	1942.0	1985.8	1988.4	1931.4	1935.4
40°	4308.5	1569.3	1594.5	1721.8	1830.6	1896.9	1899.6	1751.0	1646.2	1643.5
42.5°	4117.5	1556.0	1603.7	1719.1	1800.1	1802.7	1615.7	1500.3	1471.1	1472.4
45°	3938.4	1552.0	1625.0	1719.1	1755.0	1557.3	1431.3	1400.8	1403.4	1414.1
47.5°	3738.1	1536.1	1628.9	1695.3	1625.0	1384.9	1347.7	1334.5	1329.2	1331.8
50°	3519.2	1479.1	1578.5	1647.5	1402.1	1310.6	1264.2	1260.2	1266.8	1270.8
52.5°	3288.4	1386.2	1492.3	1561.3	1300.0	1245.6	1193.9	1203.1	1232.3	1241.6
55°	3137.2	1277.4	1378.2	1388.8	1228.3	1184.6	1140.8	1162.0	1216.4	1233.6
57.5°	3097.4	1162.0	1248.2	1236.3	1136.8	1131.5	1105.0	1123.5	1192.5	1217.7
60°	3085.4	1058.5	1120.9	1111.6	1047.9	1073.1	1066.5	1075.8	1099.7	1107.6
62.5°	2992.6	976.3	1006.8	993.6	968.3	1012.1	1028.0	1008.1	1026.7	1036.0
65°	2756.5	910.0	895.4	886.1	896.7	936.5	968.3	928.6	945.8	972.3
67.5°	2366.5	819.8	780.0	790.6	823.8	845.0	886.1	841.0	855.6	900.7
70°	1914.1	705.7	669.9	700.4	732.2	776.0	782.6	752.1	786.6	837.0
72.5°	1354.4	590.3	565.1	627.4	638.0	695.1	680.5	665.9	713.7	730.9
75°	939.2	476.2	461.6	509.4	547.8	596.9	586.3	603.6	704.4	712.3
77.5°	594.3	370.1	360.8	391.3	444.4	498.8	516.0	712.3	1203.1	1250.9
80°	344.9	275.9	265.3	289.2	335.6	386.0	497.4	874.2	793.2	784.0
82.5°	192.3	189.7	176.4	183.1	224.2	278.6	703.0	615.5	500.1	516.0
85°	90.2	111.4	95.5	91.5	126.0	326.3	469.6	351.5	233.5	228.2
87.5°	23.9	21.2	21.2	23.9	53.1	281.2	187.0	149.9	88.9	86.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)