

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: P950944

Luminaire Tested: **GALN-SB5B-730-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950944
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-SB5B-730-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28929 lumens
Efficiency: N/A
Efficacy: 158.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 182.7
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

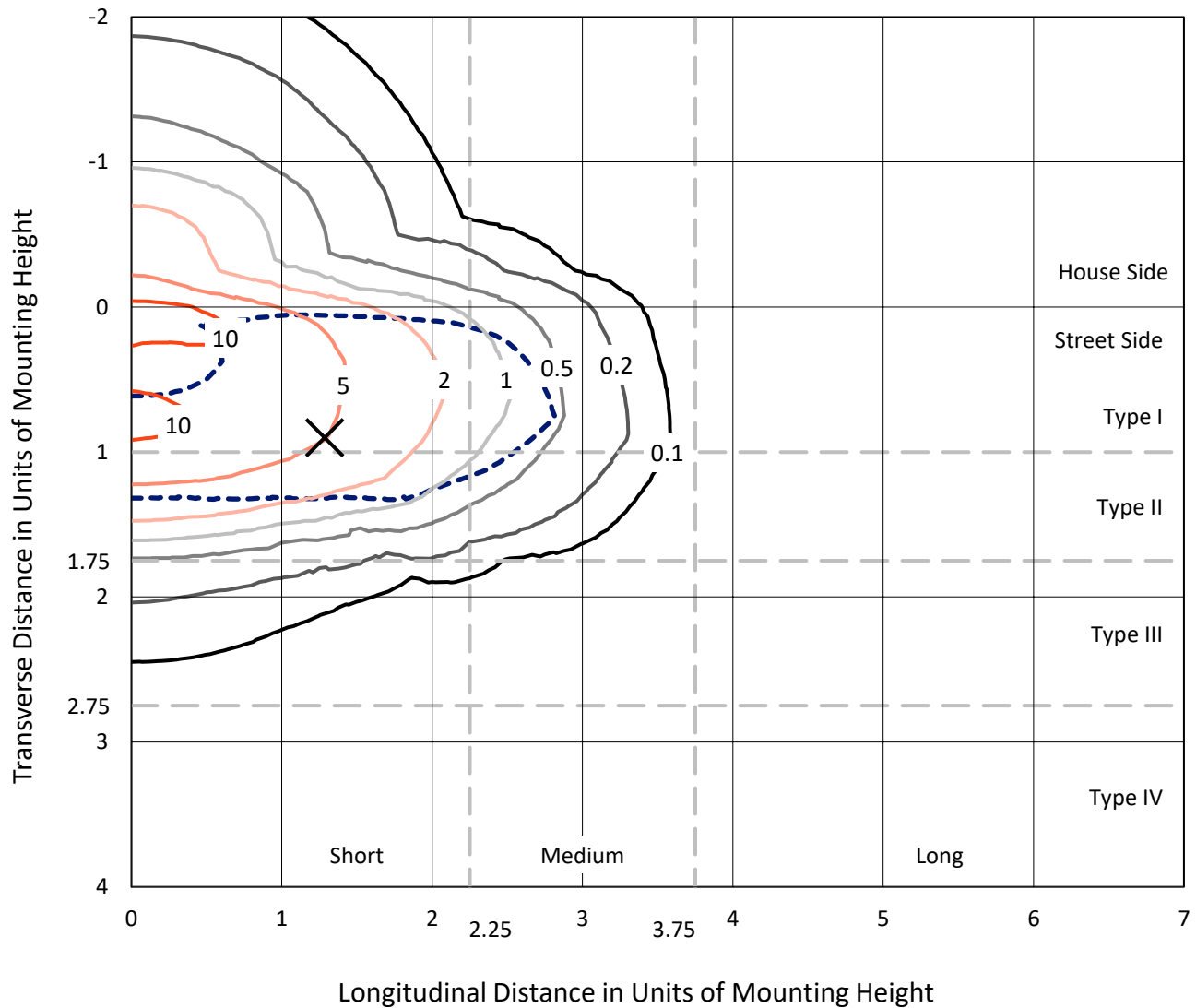


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

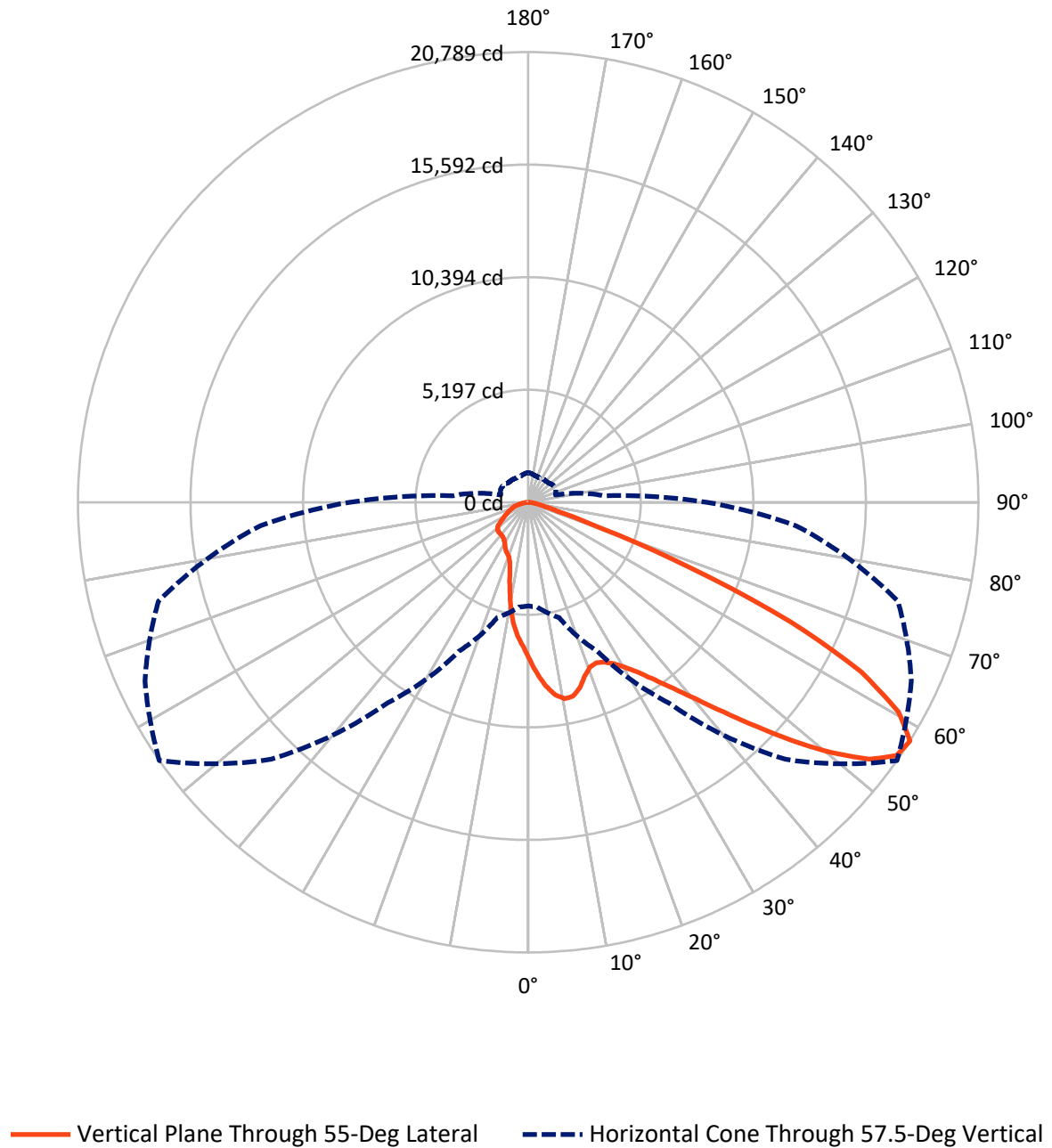


Based on 25 foot mounting height. Maximum calculated value = 14 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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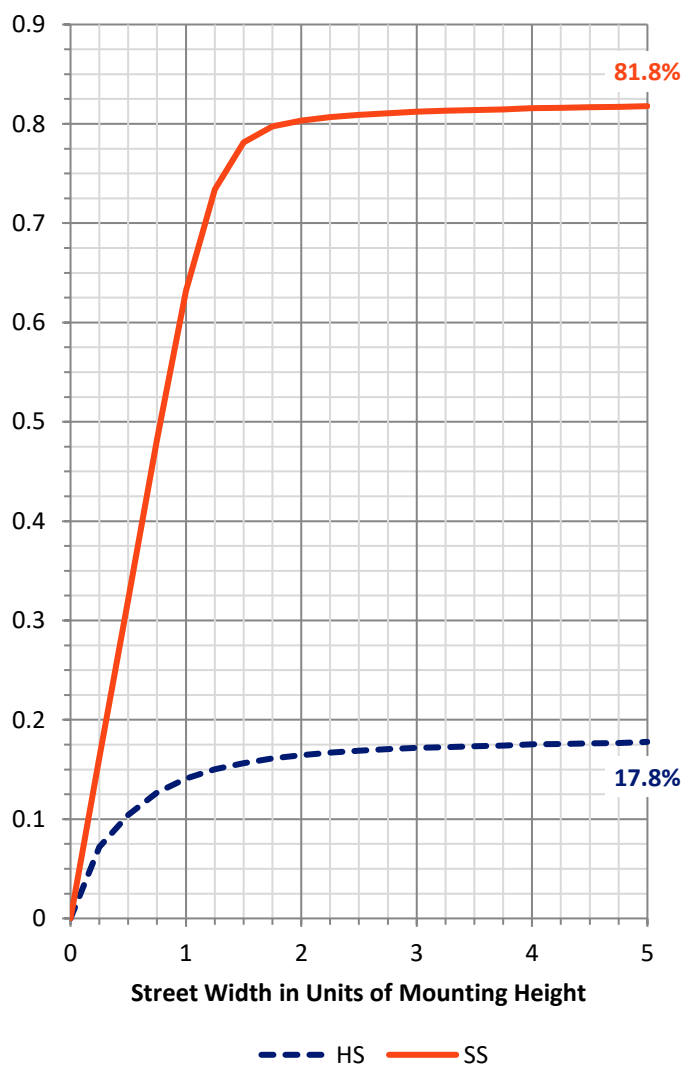
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5234.6	0.0	5234.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23694.4	0.0	23694.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	28929.0	0.0	28929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.6	2.3
10°-20°	1697.8	5.9
20°-30°	2709.1	9.4
30°-40°	4289.2	14.8
40°-50°	6565.1	22.7
50°-60°	7031.9	24.3
60°-70°	4423.8	15.3
70°-80°	1308.2	4.5
80°-90°	231.3	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°	28929.0	100.0
0°-180°	28929.0	100.0

Coefficient of Utilization



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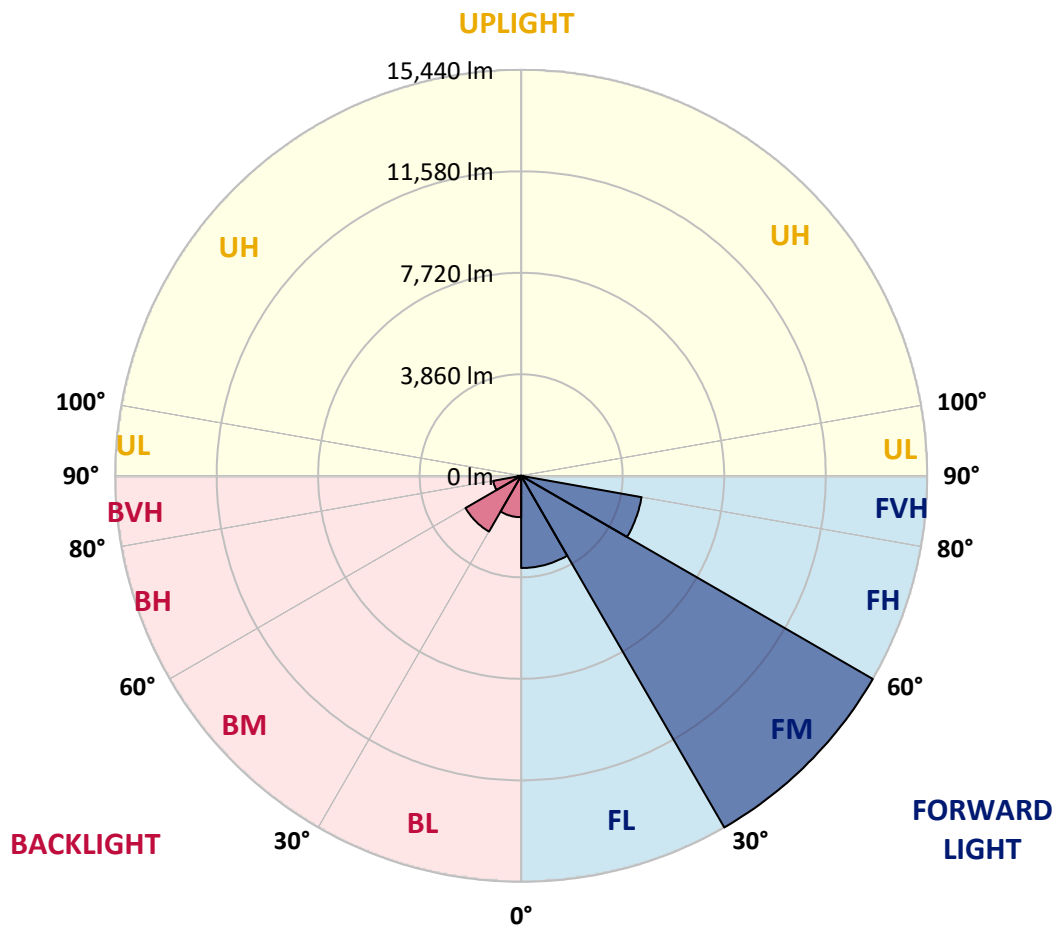
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3506.2	12.1			
FM	(30°-60°)	15439.6	53.4			
FH	(60°-80°)	4650.9	16.1			G2/5000
FVH	(80°-90°)	97.7	0.3			G1/100
BL	(0°-30°)	1573.3	5.4	B3/2500		
BM	(30°-60°)	2446.6	8.5	B2/2500		
BH	(60°-80°)	1081.1	3.7	B3/2500		G3/2500
BVH	(80°-90°)	133.6	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7248.7	7248.7	7248.7	7248.7	7248.7	7248.7	7248.7	7248.7	7248.7	7248.7	7248.7
2.5°	8316.5	8310.5	8343.4	8231.2	8154.9	8051.7	7915.7	7742.2	7555.2	7357.8	7272.6
5°	9065.7	9013.4	9047.7	8964.0	8880.3	8724.7	8522.8	8240.2	7894.7	7501.4	7292.0
7.5°	8947.6	8911.7	8999.9	9074.7	9137.5	9118.0	8970.0	8673.9	8228.2	7656.9	7353.4
10°	7994.9	7954.5	8078.7	8337.4	8717.2	9047.7	9227.2	9043.3	8569.2	7827.4	7413.2
12.5°	7154.5	7135.0	7217.3	7426.6	7848.4	8482.5	9194.3	9366.3	8923.6	8029.3	7493.9
15°	6795.5	6771.6	6823.9	6930.1	7199.3	7790.0	8895.2	9587.6	9272.1	8262.6	7622.5
17.5°	6716.3	6689.4	6711.8	6767.1	6940.6	7390.7	8443.6	9696.8	9635.5	8522.8	7730.2
20°	6862.8	6840.4	6843.4	6840.4	6961.5	7319.0	8129.5	9654.9	9952.5	8762.1	7834.9
22.5°	7217.3	7179.9	7181.4	7102.1	7167.9	7444.6	8047.3	9542.8	10235.2	8971.5	7914.2
25°	7794.5	7727.2	7740.7	7538.8	7520.8	7725.7	8175.9	9456.0	10516.3	9139.0	7929.1
27.5°	8584.1	8507.9	8467.5	8166.9	8023.3	8125.0	8437.6	9485.9	10782.5	9284.0	7891.7
30°	9571.2	9478.5	9396.2	8970.0	8709.8	8672.4	8844.4	9683.3	11096.6	9436.6	7827.4
32.5°	10781.0	10673.4	10523.8	9958.5	9592.1	9396.2	9370.8	10034.8	11464.5	9631.0	7794.5
35°	12221.2	12080.6	11868.3	11137.0	10673.4	10272.6	10064.7	10541.8	11968.5	9924.1	7831.9
37.5°	13704.7	13546.2	13351.8	12481.4	11911.6	11320.9	10911.1	11229.7	12639.9	10321.9	7930.6
40°	15073.1	14895.1	14714.2	13939.5	13327.9	12616.0	11947.5	12100.1	13461.0	10797.5	8098.1
42.5°	15880.7	15749.1	15680.3	15261.5	14789.0	14066.6	13236.6	13131.9	14383.7	11344.8	8289.5
45°	15844.8	15790.9	16003.3	16176.8	16064.6	15663.8	14747.1	14273.0	15309.4	11818.9	8466.0
47.5°	14998.3	15034.2	15508.3	16483.4	16912.6	17121.9	16466.9	15393.1	16114.0	12173.3	8545.3
50°	12695.3	12725.2	13822.9	15925.5	17130.9	18310.9	18173.3	16486.3	16737.6	12390.2	8527.3
52.5°	10872.3	10891.7	11362.8	14271.5	16410.1	18909.0	19710.6	17516.7	17193.7	12450.0	8427.1
55°	8189.3	8256.6	8784.5	11196.8	14534.7	18435.0	20646.8	18578.5	17482.3	12456.0	8322.4
57.5°	4784.1	4857.4	5509.4	7600.1	11297.0	16782.5	20788.9	19520.7	17678.3	12408.1	8259.6
60°	2343.4	2374.8	2659.0	3994.5	6966.0	13598.5	19646.3	19976.8	17787.4	12382.7	8256.6
62.5°	1579.2	1574.8	1586.7	1971.1	3432.2	8736.7	17265.5	19178.2	17729.1	12285.5	8226.7
65°	1357.9	1341.5	1296.6	1383.3	1778.1	3996.0	13339.8	16794.4	17284.9	12041.7	8021.8
67.5°	1174.0	1175.5	1177.0	1150.0	1269.7	1843.9	8151.9	13229.2	15690.7	10887.2	7232.2
70°	972.1	985.5	991.5	991.5	1034.9	1209.9	3480.0	9067.2	12376.7	8536.3	5825.0
72.5°	885.3	856.9	859.9	845.0	845.0	921.2	1401.3	5140.0	7797.5	4802.0	3554.8
75°	722.3	740.3	743.3	732.8	698.4	702.9	831.5	2156.5	3336.5	1992.0	1757.2
77.5°	623.6	623.6	629.6	622.1	595.2	526.4	554.8	836.0	1135.1	816.5	877.9
80°	501.0	499.5	524.9	539.9	498.0	388.8	354.4	462.1	504.0	358.9	456.1
82.5°	243.8	258.7	360.4	411.3	378.4	281.2	216.8	287.1	269.2	158.5	204.9
85°	142.1	134.6	161.5	228.8	216.8	155.5	104.7	149.5	140.6	80.8	82.3
87.5°	44.9	41.9	32.9	77.8	62.8	43.4	28.4	43.4	38.9	17.9	17.9
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°	7248.7	7248.7	7248.7	7248.7	7248.7	7248.7	7248.7	7248.7	7248.7	7248.7
2.5°	7166.4	6989.9	6815.0	6655.0	6557.7	6494.9	6432.1	6361.8	6334.9	6294.5
5°	7094.6	6753.7	6450.1	6188.4	5950.6	5763.6	5575.2	5422.7	5353.9	5400.2
7.5°	7052.8	6559.2	6091.2	5611.1	5149.0	4779.6	4458.1	4232.3	4130.6	4156.0
10°	7015.4	6339.4	5626.1	4867.8	4203.8	3746.2	3417.2	3245.2	3180.9	3194.4
12.5°	6981.0	6092.7	5065.2	4067.7	3361.9	3059.8	2965.6	2967.1	2979.0	2988.0
15°	6975.0	5795.0	4438.6	3367.9	2907.2	2887.8	2989.5	3053.8	3088.2	3098.7
17.5°	6966.0	5439.1	3800.1	2890.8	2796.6	2928.2	3022.4	3064.3	3091.2	3092.7
20°	6930.1	4987.5	3210.8	2663.5	2772.6	2886.3	2944.6	2977.5	3000.0	3007.4
22.5°	6819.5	4485.0	2751.7	2561.8	2676.9	2768.2	2837.0	2874.3	2887.8	2896.8
25°	6620.6	3922.7	2434.7	2464.6	2543.8	2659.0	2714.3	2721.8	2717.3	2730.8
27.5°	6360.3	3320.0	2237.3	2333.0	2434.7	2533.4	2563.3	2558.8	2549.8	2564.8
30°	6046.3	2778.6	2111.6	2184.9	2324.0	2413.7	2440.6	2430.2	2412.2	2428.7
32.5°	5714.3	2336.0	2008.5	2081.7	2232.8	2321.0	2347.9	2337.5	2324.0	2337.5
35°	5404.7	2026.4	1912.7	2012.9	2161.0	2247.7	2282.1	2283.6	2283.6	2300.1
37.5°	5120.6	1845.4	1833.5	1969.6	2111.6	2189.4	2238.8	2241.7	2177.4	2181.9
40°	4857.4	1769.2	1797.6	1941.2	2063.8	2138.6	2141.6	1974.1	1855.9	1852.9
42.5°	4642.0	1754.2	1808.1	1938.2	2029.4	2032.4	1821.5	1691.4	1658.5	1660.0
45°	4440.1	1749.7	1832.0	1938.2	1978.5	1755.7	1613.6	1579.2	1582.2	1594.2
47.5°	4214.3	1731.8	1836.5	1911.2	1832.0	1561.3	1519.4	1504.5	1498.5	1501.5
50°	3967.6	1667.5	1779.6	1857.4	1580.7	1477.5	1425.2	1420.7	1428.2	1432.7
52.5°	3707.3	1562.8	1682.4	1760.2	1465.6	1404.3	1345.9	1356.4	1389.3	1399.8
55°	3536.8	1440.2	1553.8	1565.8	1384.8	1335.5	1286.1	1310.1	1371.4	1390.8
57.5°	3492.0	1310.1	1407.3	1393.8	1281.6	1275.7	1245.7	1266.7	1344.5	1372.9
60°	3478.5	1193.4	1263.7	1253.2	1181.4	1209.9	1202.4	1212.8	1239.8	1248.7
62.5°	3373.8	1100.7	1135.1	1120.1	1091.7	1141.1	1159.0	1136.6	1157.5	1168.0
65°	3107.6	1025.9	1009.5	999.0	1011.0	1055.8	1091.7	1046.8	1066.3	1096.2
67.5°	2668.0	924.2	879.4	891.3	928.7	952.6	999.0	948.1	964.6	1015.4
70°	2158.0	795.6	755.2	789.6	825.5	874.9	882.3	847.9	886.8	943.7
72.5°	1526.9	665.5	637.1	707.4	719.3	783.6	767.2	750.7	804.6	824.0
75°	1058.8	536.9	520.4	574.3	617.6	673.0	661.0	680.5	794.1	803.1
77.5°	670.0	417.2	406.8	441.2	501.0	562.3	581.7	803.1	1356.4	1410.3
80°	388.8	311.1	299.1	326.0	378.4	435.2	560.8	985.5	894.3	883.8
82.5°	216.8	213.9	198.9	206.4	252.7	314.1	792.6	693.9	563.8	581.7
85°	101.7	125.6	107.7	103.2	142.1	367.9	529.4	396.3	263.2	257.2
87.5°	26.9	23.9	23.9	26.9	59.8	317.0	210.9	169.0	100.2	97.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)