

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: P947007

Luminaire Tested: **GALN-SB2C-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2C-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14149 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 100.9
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

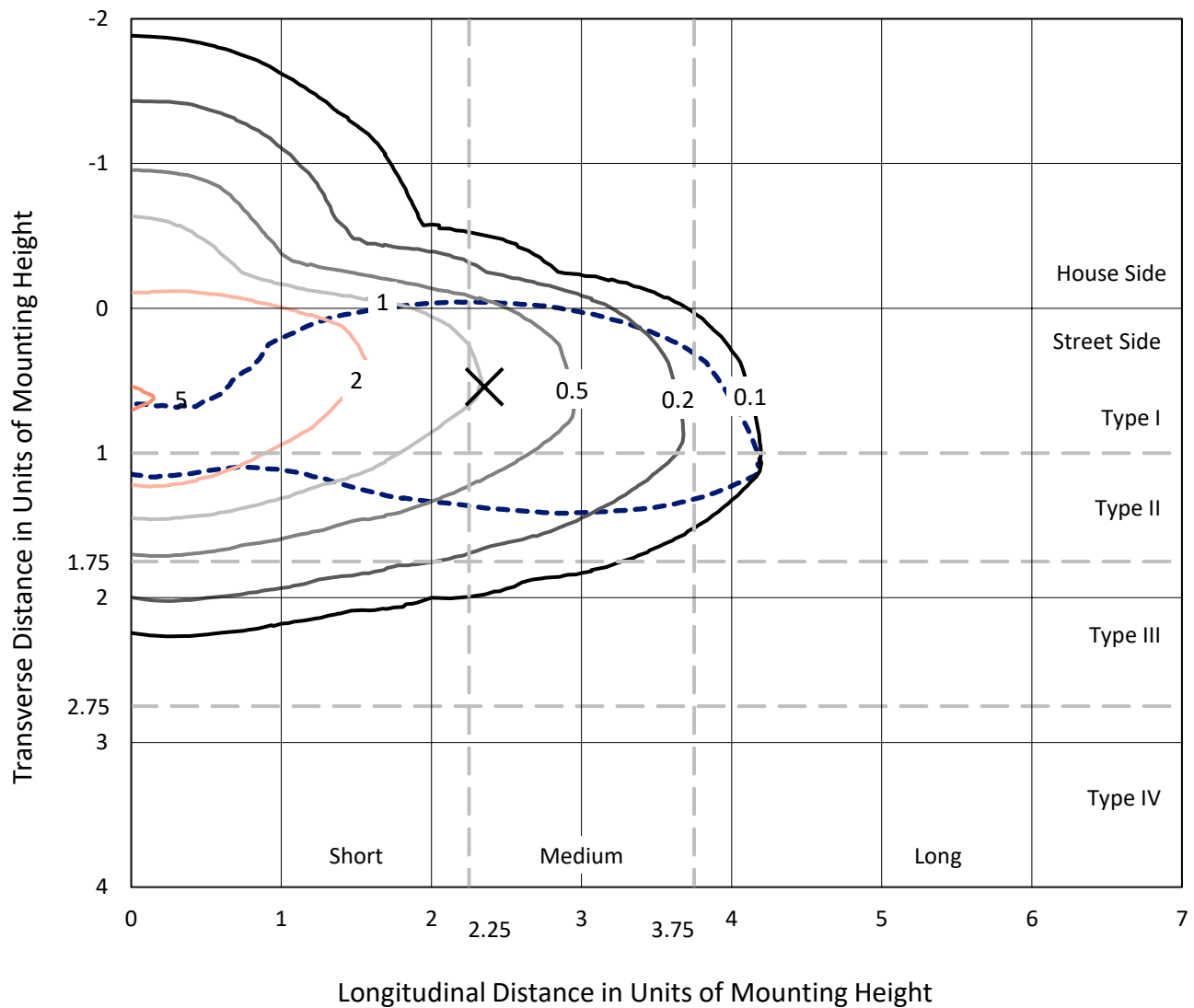


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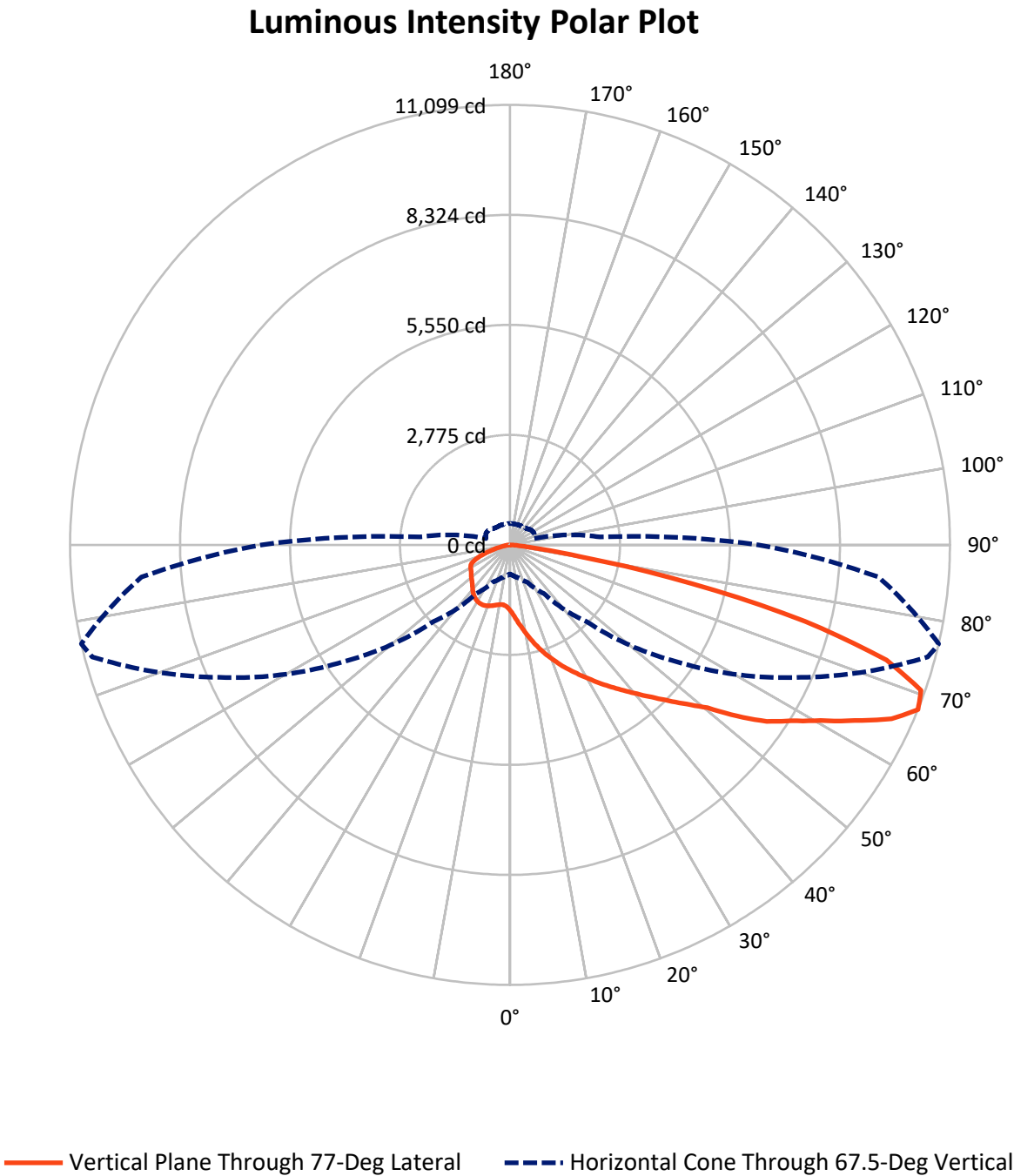
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type II - Medium - N/A

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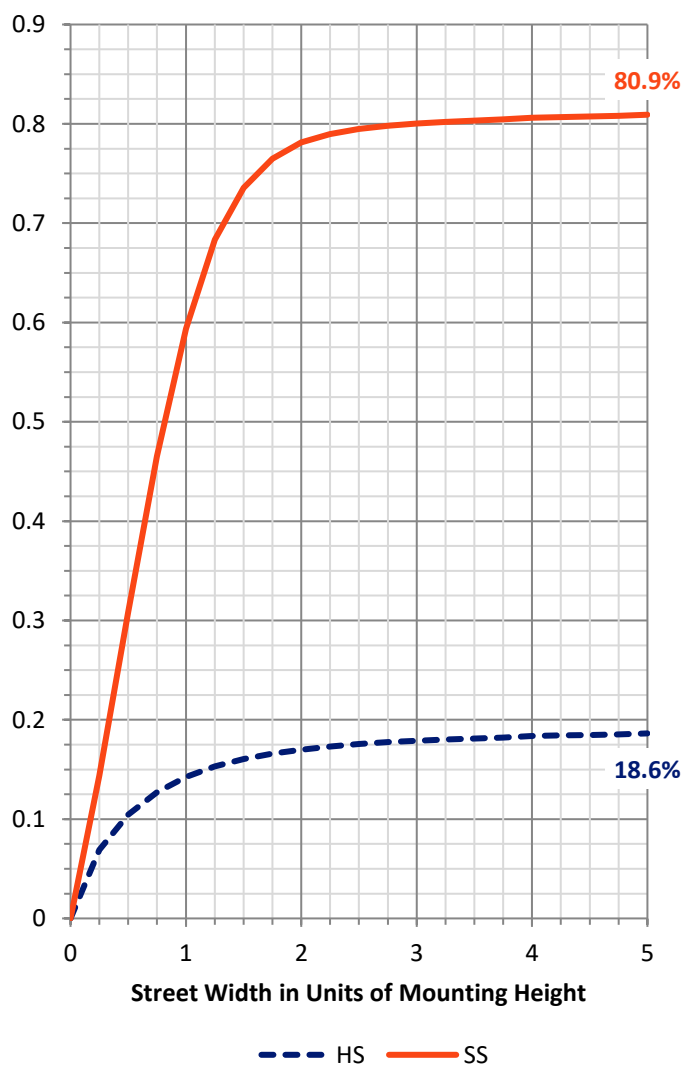
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2676.4	0.0	2676.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	11472.6	0.0	11472.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	14149.0	0.0	14149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	1.3
10°-20°	639.3	4.5
20°-30°	1207.0	8.5
30°-40°	1944.5	13.7
40°-50°	2659.7	18.8
50°-60°	3000.2	21.2
60°-70°	2800.3	19.8
70°-80°	1535.0	10.8
80°-90°	185.2	1.3
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°	14149.0	100.0
0°-180°	14149.0	100.0

Coefficient of Utilization



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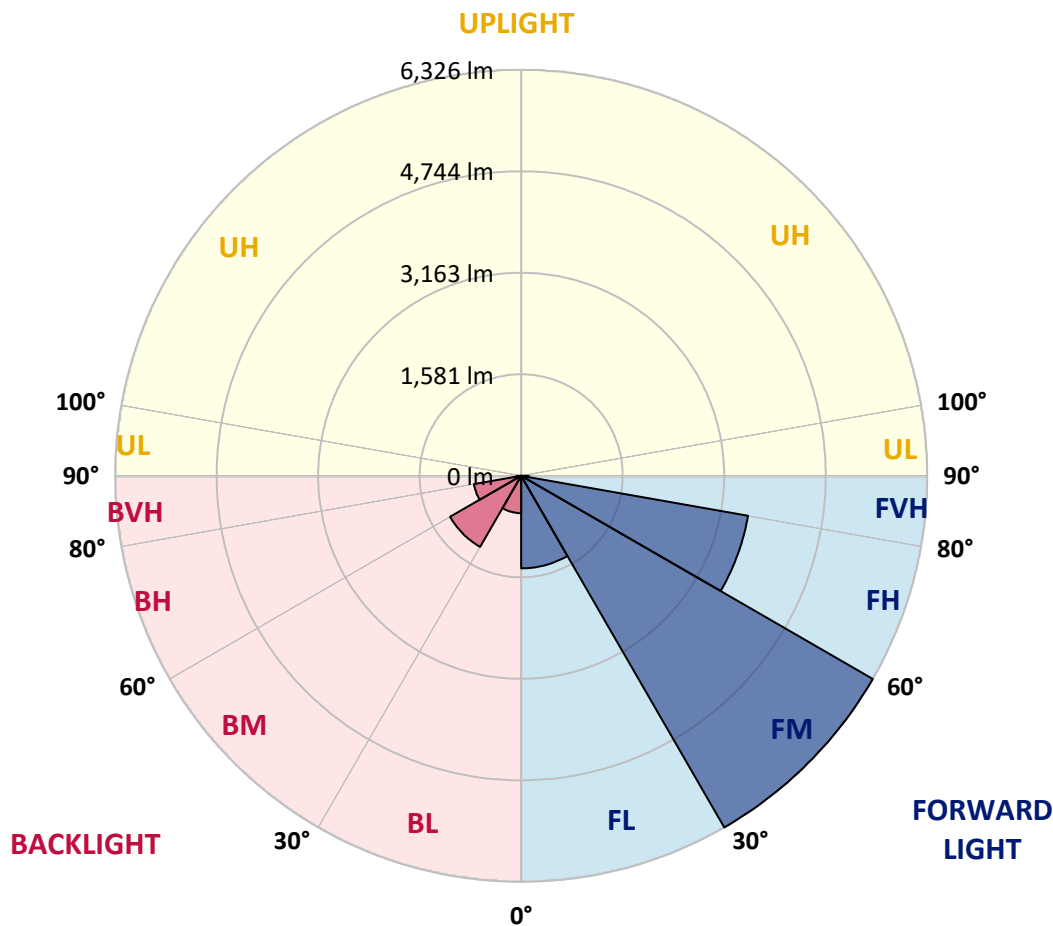
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1442.3	10.2			
FM	(30°-60°)	6325.9	44.7			
FH	(60°-80°)	3588.6	25.4			G2/5000
FVH	(80°-90°)	115.8	0.8			G2/225
BL	(0°-30°)	581.9	4.1	B2/1000		
BM	(30°-60°)	1278.5	9.0	B2/2500		
BH	(60°-80°)	746.7	5.3	B2/1000		G2/1000
BVH	(80°-90°)	69.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1
2.5°	2078.6	2093.2	2075.0	2075.0	2013.6	1981.5	1920.1	1873.4	1789.4	1774.8	1719.3
5°	2456.9	2475.2	2449.6	2438.7	2366.4	2299.9	2196.9	2095.4	1945.7	1930.4	1799.6
7.5°	2749.8	2773.2	2750.6	2738.9	2674.6	2600.1	2479.6	2337.9	2126.8	2096.9	1907.7
10°	2988.6	2992.3	2985.0	2989.4	2939.0	2877.6	2754.2	2589.1	2325.5	2284.6	2038.4
12.5°	3123.8	3140.6	3155.2	3181.5	3172.7	3134.7	3023.7	2826.5	2535.8	2483.2	2180.9
15°	3187.3	3216.5	3249.4	3310.0	3358.9	3368.4	3283.7	3081.4	2749.8	2686.3	2324.7
17.5°	3209.9	3237.7	3289.6	3377.2	3482.4	3553.2	3515.2	3329.0	2961.6	2888.6	2475.9
20°	3324.6	3332.7	3364.1	3447.3	3561.3	3678.8	3707.3	3567.1	3171.2	3088.7	2632.2
22.5°	3570.0	3554.0	3562.7	3600.7	3682.5	3796.4	3861.4	3777.4	3386.7	3291.8	2790.0
25°	3975.4	3928.6	3881.9	3838.1	3879.7	3944.0	4017.7	3987.8	3612.4	3491.9	2949.2
27.5°	4487.4	4430.4	4327.4	4183.5	4133.1	4155.8	4188.6	4182.8	3821.3	3699.3	3113.5
30°	4991.3	4924.8	4802.1	4594.0	4461.1	4401.2	4376.3	4359.5	4048.4	3918.4	3279.3
32.5°	5393.7	5341.2	5220.6	4987.7	4794.8	4692.6	4610.1	4550.2	4285.8	4155.8	3454.6
35°	5745.8	5696.8	5558.8	5304.6	5095.0	4986.2	4878.1	4750.3	4532.6	4401.2	3643.1
37.5°	6067.1	6018.2	5829.0	5564.6	5353.6	5278.3	5181.9	4965.0	4780.2	4656.1	3842.4
40°	6270.2	6259.2	6082.5	5783.0	5563.9	5526.7	5494.5	5214.1	5054.8	4939.5	4061.6
42.5°	6322.0	6346.1	6205.9	5959.8	5750.9	5720.9	5796.2	5496.0	5363.1	5252.8	4309.9
45°	6197.1	6266.5	6174.5	6007.2	5883.8	5867.7	6063.5	5804.2	5704.1	5603.4	4609.3
47.5°	5880.9	5998.5	5960.5	5937.1	5919.6	5989.0	6298.7	6131.4	6090.5	6002.9	4951.1
50°	5242.6	5465.3	5531.8	5679.3	5848.8	6083.2	6512.7	6488.6	6541.9	6453.5	5367.4
52.5°	4139.0	4445.7	4831.4	5200.9	5631.1	6051.8	6747.8	7001.3	7226.2	7178.0	6029.2
55°	3416.6	3554.7	3851.2	4529.0	5209.0	5919.6	6853.7	7415.4	7905.5	7862.4	6530.9
57.5°	2861.6	2985.0	3167.6	3733.6	4570.6	5619.4	6919.5	7668.1	8370.7	8366.3	7026.1
60°	2266.3	2397.1	2584.0	2985.0	3824.9	5100.9	6904.9	7955.9	8964.5	9001.0	7630.1
62.5°	1594.4	1738.3	1945.7	2319.6	3063.1	4428.9	6606.9	8164.0	9663.4	9762.8	8356.8
65°	1048.1	1143.0	1299.3	1622.1	2282.4	3564.9	6037.9	8191.0	10411.3	10579.3	9039.0
67.5°	734.7	771.3	863.3	1038.6	1504.5	2733.8	5131.5	7911.3	10910.2	11099.3	9334.8
70°	573.3	591.6	638.3	708.5	945.1	1838.3	3932.3	7183.9	10803.5	11000.7	9025.8
72.5°	495.2	512.7	530.2	539.0	634.0	1135.0	2663.6	6006.5	9799.3	9932.9	7847.8
75°	449.2	453.6	468.2	465.2	483.5	736.2	1537.4	4376.3	7731.6	7685.6	5793.2
77.5°	377.6	383.4	407.5	403.9	429.5	503.2	798.3	2824.3	5012.5	4699.9	3224.6
80°	319.9	322.8	349.1	344.7	373.2	364.5	407.5	1439.5	2126.1	1801.1	929.8
82.5°	111.0	137.3	266.6	274.6	284.8	220.6	235.2	587.2	649.3	497.4	195.0
85°	54.0	57.7	135.8	192.8	192.1	111.0	114.7	209.6	204.5	160.7	65.0
87.5°	8.8	11.0	16.1	75.2	59.9	29.2	39.4	40.9	42.4	36.5	14.6
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°	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1
2.5°	1678.4	1641.9	1565.2	1494.3	1438.8	1385.5	1355.6	1330.0	1315.4	1312.5	1312.5
5°	1723.7	1648.4	1508.9	1391.3	1314.7	1257.7	1227.7	1208.8	1199.3	1193.4	1192.7
7.5°	1788.7	1678.4	1479.7	1346.1	1265.7	1224.8	1209.5	1206.6	1205.8	1206.6	1208.8
10°	1878.5	1727.3	1476.8	1335.1	1267.9	1245.3	1244.5	1245.3	1248.2	1248.9	1249.7
12.5°	1975.6	1777.7	1488.5	1344.6	1295.7	1283.2	1281.1	1280.3	1282.5	1284.0	1284.7
15°	2081.5	1844.2	1508.2	1365.1	1326.3	1313.2	1311.0	1306.6	1305.9	1305.2	1304.4
17.5°	2190.4	1909.9	1530.1	1387.0	1346.1	1327.8	1319.8	1309.5	1301.5	1299.3	1301.5
20°	2300.6	1974.9	1545.5	1397.9	1347.5	1322.0	1305.9	1288.4	1274.5	1266.5	1269.4
22.5°	2418.2	2042.8	1554.9	1395.0	1334.4	1299.3	1270.1	1249.7	1228.5	1214.6	1215.3
25°	2532.9	2102.0	1554.2	1379.7	1308.8	1264.3	1227.0	1200.7	1171.5	1156.9	1156.9
27.5°	2643.2	2155.3	1536.0	1352.6	1272.3	1222.6	1178.1	1146.7	1118.2	1104.3	1103.6
30°	2757.1	2199.9	1507.5	1313.2	1229.2	1174.4	1125.5	1098.5	1072.9	1059.8	1059.0
32.5°	2870.3	2240.8	1467.3	1264.3	1179.5	1127.0	1078.7	1053.9	1038.6	1038.6	1039.3
35°	2990.1	2269.2	1414.0	1207.3	1127.0	1076.6	1038.6	1024.0	1022.5	1013.7	1011.6
37.5°	3116.5	2287.5	1349.0	1148.9	1075.1	1027.6	1015.9	998.4	983.8	964.8	961.9
40°	3249.4	2305.8	1270.8	1088.2	1020.3	994.0	988.9	965.5	923.9	877.2	870.6
42.5°	3410.8	2318.2	1189.8	1027.6	962.6	953.9	961.2	921.0	854.5	819.5	820.2
45°	3597.8	2338.6	1115.3	967.7	903.5	903.5	934.1	881.5	826.8	804.9	808.5
47.5°	3840.3	2386.1	1045.9	902.0	848.7	863.3	874.2	834.1	803.4	776.4	775.6
50°	4190.8	2500.0	974.3	835.5	807.1	836.3	820.9	797.6	761.8	739.9	737.7
52.5°	4626.1	2567.2	910.8	775.6	771.3	800.5	778.6	756.7	729.6	700.4	694.6
55°	4922.7	2579.6	857.4	731.8	747.2	744.2	736.2	716.5	701.9	663.2	663.9
57.5°	5254.2	2604.5	813.6	705.5	731.8	699.7	696.8	680.0	661.0	634.7	625.9
60°	5650.8	2643.2	775.6	695.3	718.7	670.5	655.9	649.3	630.3	617.2	620.8
62.5°	6083.2	2678.2	736.9	696.8	703.3	642.0	620.1	617.9	606.2	601.8	601.8
65°	6378.3	2582.6	688.7	695.3	679.2	612.8	585.0	584.3	574.8	573.3	572.6
67.5°	6275.3	2279.5	623.7	674.9	654.4	583.6	552.9	550.0	537.5	538.3	538.3
70°	5759.7	1847.1	533.9	624.5	623.7	557.3	519.3	509.8	493.0	495.9	498.8
72.5°	4792.6	1368.7	413.4	540.5	574.8	533.2	480.6	465.2	444.1	447.0	446.3
75°	3461.2	930.5	300.9	411.2	500.3	504.7	442.6	416.3	390.7	395.1	396.6
77.5°	1771.1	527.3	221.3	283.4	392.9	458.7	408.3	373.2	367.4	408.3	402.4
80°	577.7	264.4	153.4	198.7	257.8	375.4	357.9	317.7	316.2	325.7	279.7
82.5°	172.4	111.7	98.6	130.7	142.4	287.8	308.9	240.3	206.7	217.6	225.0
85°	59.2	54.0	56.2	65.0	67.9	168.7	216.2	159.2	150.5	165.8	163.6
87.5°	13.9	19.0	16.1	14.6	14.6	40.9	84.0	66.5	92.0	61.4	59.2
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)