

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: P948792

Luminaire Tested: **GALN-SB3D-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948792
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-SB3D-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28845 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 218.1
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



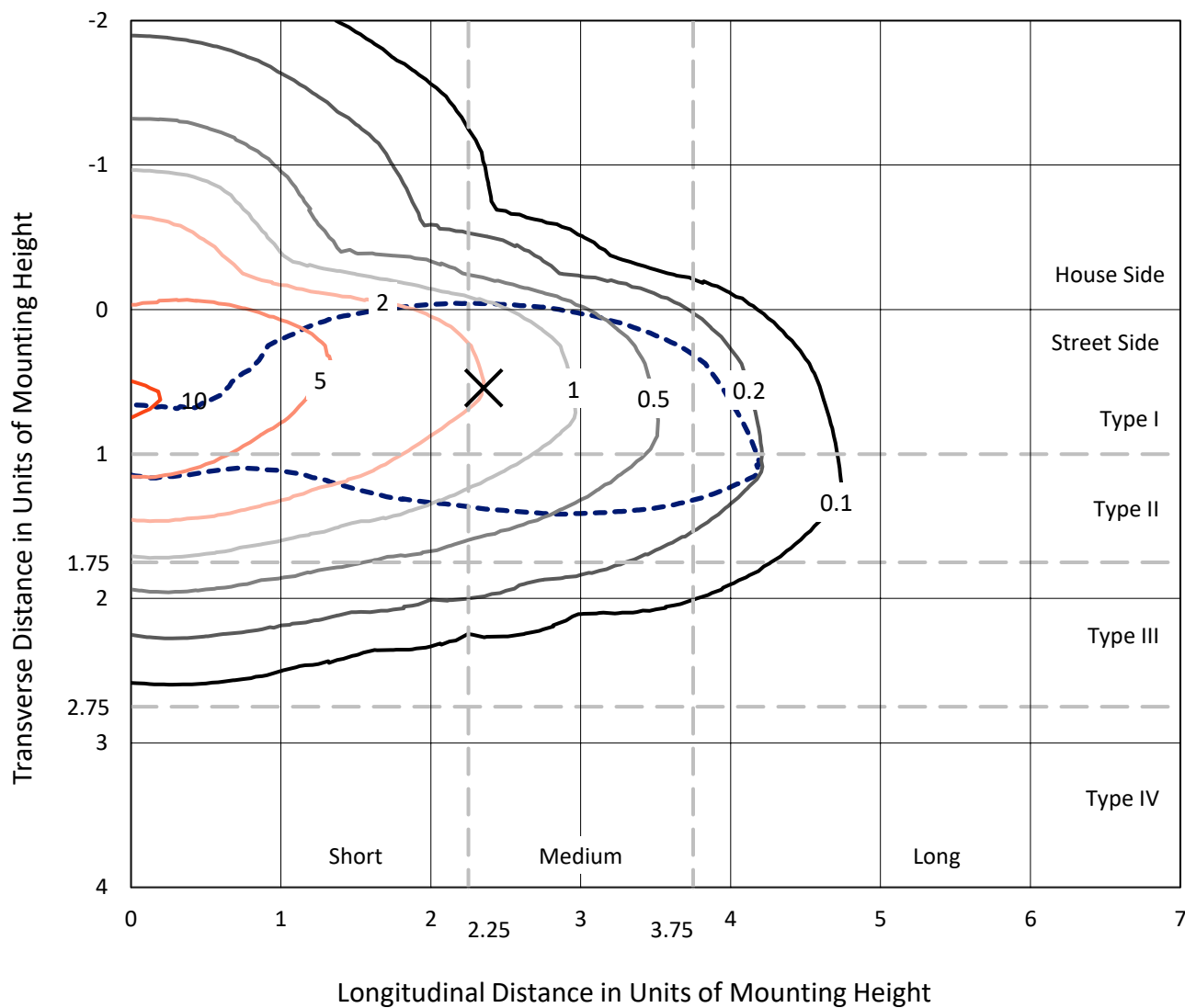
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Iso-Footcandle Lines of Horizontal Illumination

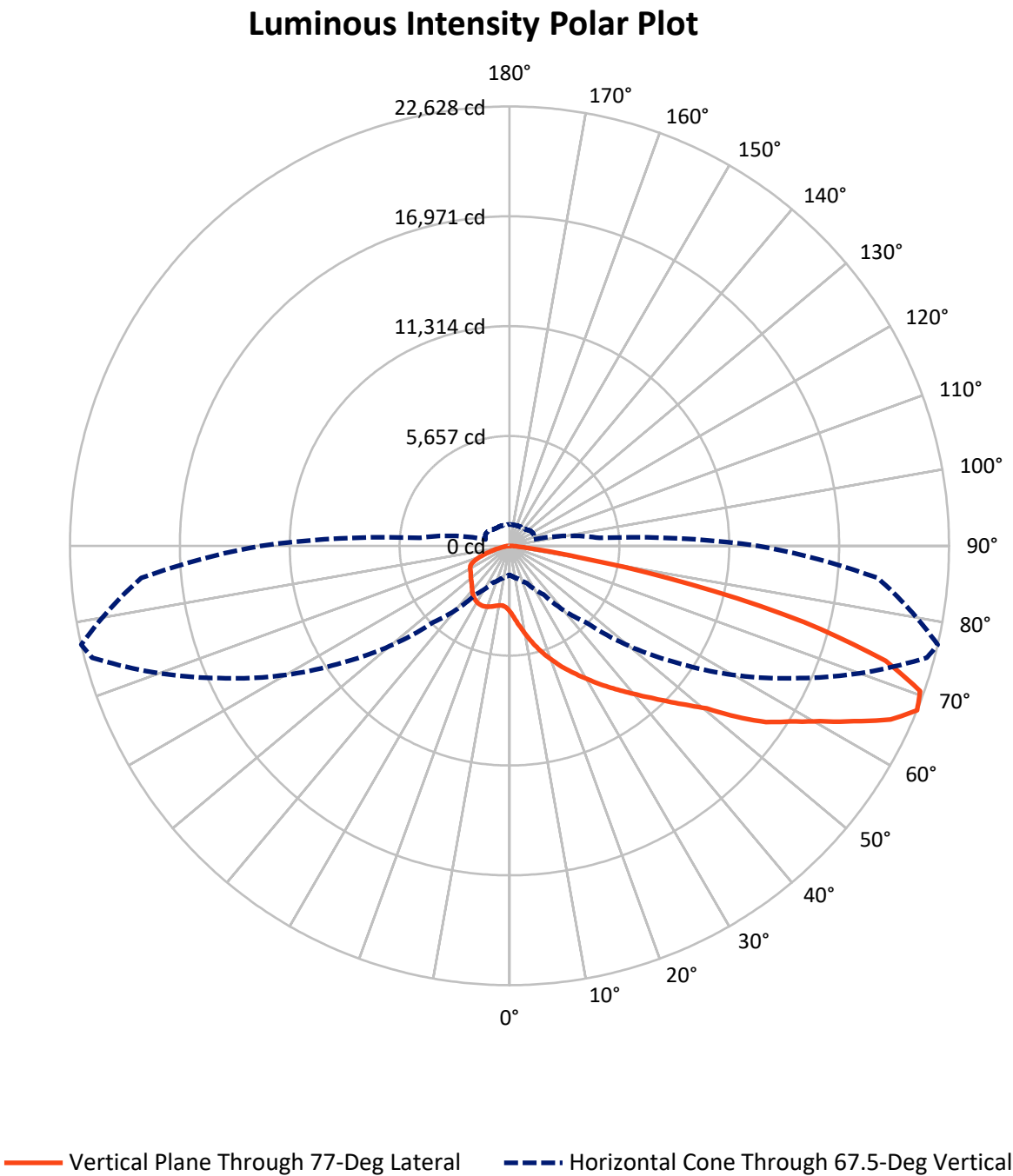
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Medium - N/A

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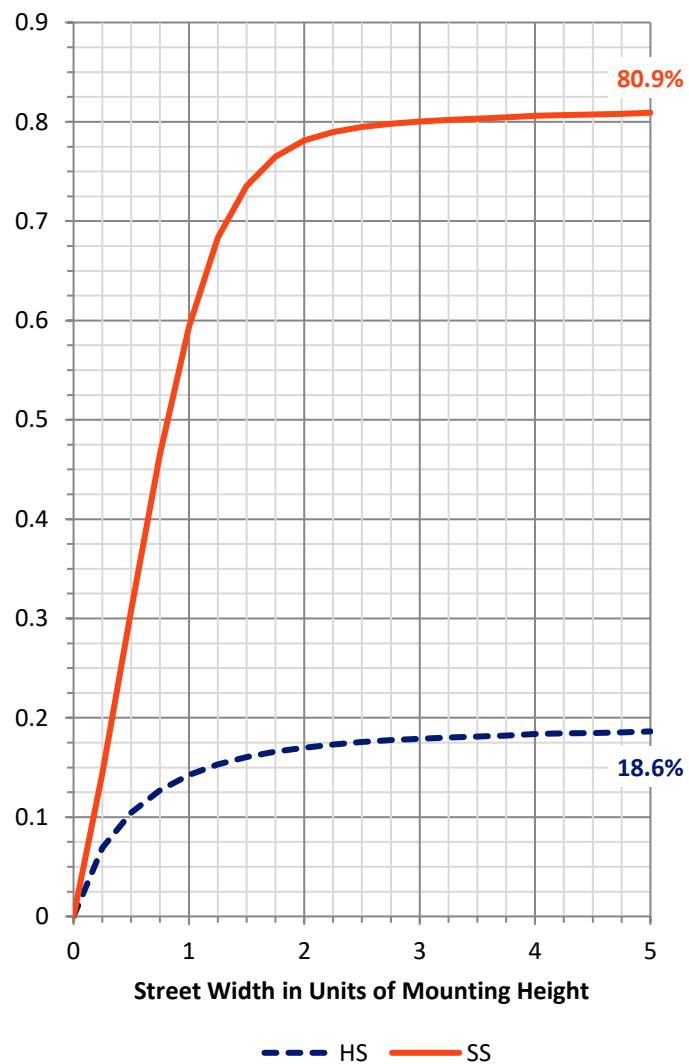
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5456.3	0.0	5456.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	23388.7	0.0	23388.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	28845.0	0.0	28845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.8	1.3
10°-20°	1303.3	4.5
20°-30°	2460.7	8.5
30°-40°	3964.1	13.7
40°-50°	5422.2	18.8
50°-60°	6116.3	21.2
60°-70°	5708.8	19.8
70°-80°	3129.4	10.8
80°-90°	377.5	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°	28845.0	100.0
0°-180°	28845.0	100.0

Coefficient of Utilization



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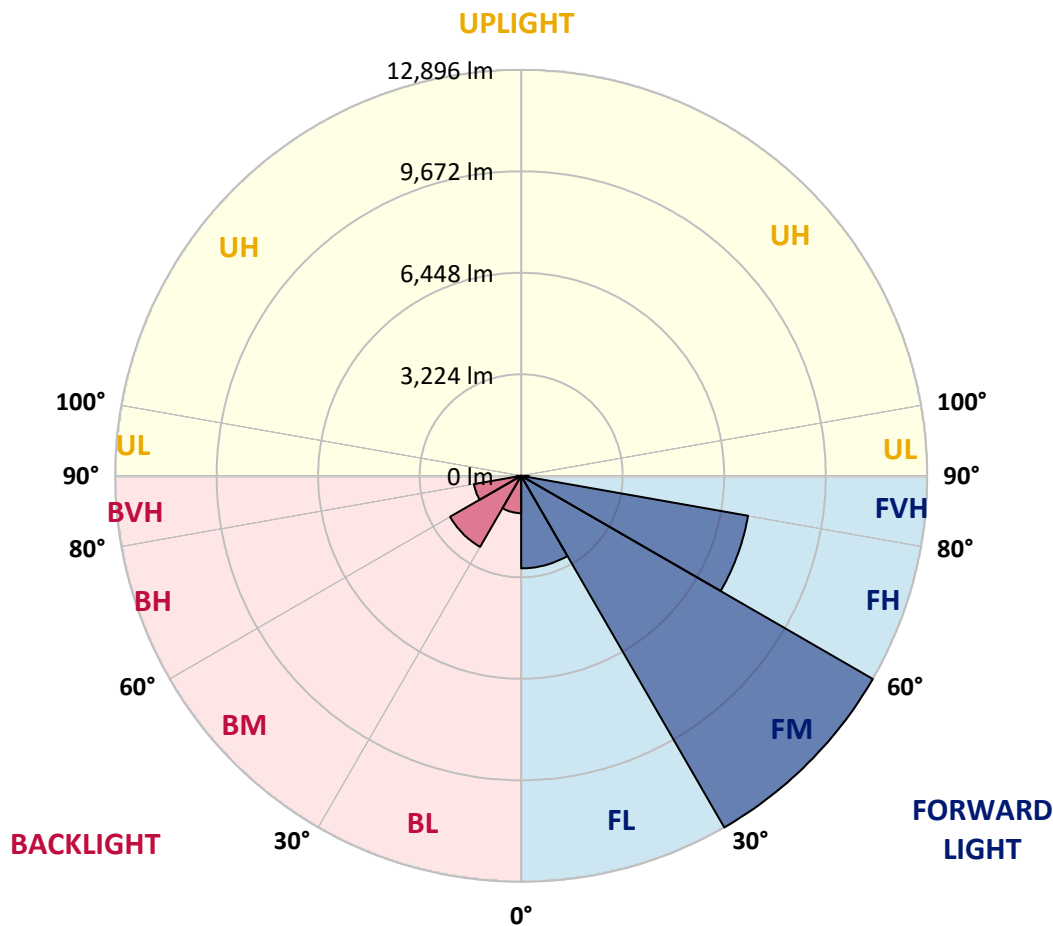
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2940.4	10.2			
FM	(30°-60°)	12896.3	44.7			
FH	(60°-80°)	7315.9	25.4			G3/7500
FVH	(80°-90°)	236.1	0.8			G3/500
BL	(0°-30°)	1186.3	4.1	B3/2500		
BM	(30°-60°)	2606.3	9.0	B3/5000		
BH	(60°-80°)	1522.2	5.3	B3/2500		G3/2500
BVH	(80°-90°)	141.4	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3384.4	3384.4	3384.4	3384.4	3384.4	3384.4	3384.4	3384.4	3384.4	3384.4	3384.4
2.5°	4237.6	4267.4	4230.1	4230.1	4105.1	4039.6	3914.5	3819.2	3648.0	3618.2	3505.0
5°	5008.9	5046.1	4994.0	4971.7	4824.2	4688.7	4478.8	4271.8	3966.6	3935.3	3668.8
7.5°	5605.9	5653.6	5607.4	5583.6	5452.6	5300.7	5055.0	4766.2	4335.9	4274.8	3889.2
10°	6092.8	6100.3	6085.4	6094.3	5991.6	5866.5	5614.9	5278.4	4740.9	4657.5	4155.7
12.5°	6368.3	6402.5	6432.3	6485.9	6468.1	6390.6	6164.3	5762.3	5169.7	5062.5	4446.0
15°	6497.8	6557.4	6624.4	6748.0	6847.7	6867.1	6694.4	6281.9	5605.9	5476.4	4739.4
17.5°	6544.0	6600.6	6706.3	6885.0	7099.4	7243.8	7166.4	6786.7	6037.7	5888.9	5047.6
20°	6777.8	6794.1	6858.2	7027.9	7260.2	7499.9	7558.0	7272.1	6465.1	6296.8	5366.2
22.5°	7278.1	7245.3	7263.2	7340.6	7507.4	7739.6	7872.2	7700.9	6904.3	6710.8	5687.8
25°	8104.4	8009.1	7913.8	7824.5	7909.4	8040.4	8190.8	8129.7	7364.4	7118.7	6012.4
27.5°	9148.2	9032.1	8822.1	8528.8	8426.0	8472.2	8539.2	8527.3	7790.3	7541.6	6347.5
30°	10175.6	10040.1	9789.9	9365.6	9094.6	8972.5	8921.9	8887.6	8253.3	7988.3	6685.4
32.5°	10996.0	10888.8	10643.1	10168.1	9775.0	9566.6	9398.3	9276.2	8737.2	8472.2	7042.8
35°	11713.7	11613.9	11332.5	10814.3	10387.0	10165.2	9944.8	9684.2	9240.5	8972.5	7427.0
37.5°	12368.8	12269.1	11883.4	11344.4	10914.1	10760.7	10564.2	10122.0	9745.3	9492.1	7833.4
40°	12782.8	12760.4	12400.1	11789.6	11342.9	11267.0	11201.5	10629.7	10305.1	10069.9	8280.1
42.5°	12888.5	12937.6	12651.7	12149.9	11724.1	11663.1	11816.4	11204.5	10933.5	10708.6	8786.4
45°	12633.9	12775.3	12587.7	12246.7	11995.1	11962.3	12361.4	11832.8	11628.8	11423.3	9396.9
47.5°	11989.1	12228.9	12151.4	12103.8	12068.1	12209.5	12840.8	12499.9	12416.5	12237.8	10093.7
50°	10687.8	11141.9	11277.4	11578.2	11923.6	12401.6	13277.1	13228.0	13336.6	13156.5	10942.4
52.5°	8438.0	9063.3	9849.5	10602.9	11479.9	12337.6	13756.5	14273.2	14731.8	14633.5	12291.4
55°	6965.4	7246.8	7851.3	9233.1	10619.3	12068.1	13972.4	15117.4	16116.5	16028.7	13314.3
57.5°	5833.8	6085.4	6457.6	7611.6	9317.9	11456.1	14106.4	15632.6	17065.0	17056.1	14323.8
60°	4620.3	4886.8	5268.0	6085.4	7797.7	10398.9	14076.7	16219.3	18275.5	18350.0	15555.2
62.5°	3250.4	3543.7	3966.6	4728.9	6244.7	9029.1	13469.2	16643.6	19700.5	19903.0	17036.7
65°	2136.7	2330.2	2648.9	3307.0	4653.0	7267.6	12309.3	16698.7	21225.2	21567.6	18427.4
67.5°	1497.9	1572.3	1760.0	2117.3	3067.3	5573.2	10461.5	16128.5	22242.1	22627.8	19030.4
70°	1168.8	1206.1	1301.4	1444.3	1926.7	3747.7	8016.6	14645.4	22024.8	22426.8	18400.6
72.5°	1009.5	1045.3	1081.0	1098.9	1292.4	2313.8	5430.3	12245.2	19977.4	20249.9	15998.9
75°	915.7	924.6	954.4	948.5	985.7	1500.9	3134.3	8921.9	15762.2	15668.4	11810.5
77.5°	769.8	781.7	830.8	823.4	875.5	1025.9	1627.4	5757.8	10218.8	9581.5	6573.8
80°	652.2	658.1	711.7	702.8	760.9	743.0	830.8	2934.7	4334.4	3671.8	1895.5
82.5°	226.3	279.9	543.5	559.9	580.7	449.7	479.4	1197.1	1323.7	1014.0	397.6
85°	110.2	117.6	276.9	393.1	391.6	226.3	233.8	427.3	416.9	327.6	132.5
87.5°	17.9	22.3	32.8	153.4	122.1	59.6	80.4	83.4	86.4	74.4	29.8
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°	3384.4	3384.4	3384.4	3384.4	3384.4	3384.4	3384.4	3384.4	3384.4	3384.4	3384.4
2.5°	3421.6	3347.2	3190.8	3046.4	2933.3	2824.6	2763.5	2711.4	2681.6	2675.7	2675.7
5°	3514.0	3360.6	3076.2	2836.5	2680.1	2564.0	2502.9	2464.2	2444.9	2433.0	2431.5
7.5°	3646.5	3421.6	3016.6	2744.2	2580.4	2497.0	2465.7	2459.8	2458.3	2459.8	2464.2
10°	3829.6	3521.4	3010.7	2721.8	2584.8	2538.7	2537.2	2538.7	2544.6	2546.1	2547.6
12.5°	4027.6	3624.1	3034.5	2741.2	2641.4	2616.1	2611.6	2610.2	2614.6	2617.6	2619.1
15°	4243.5	3759.6	3074.7	2782.9	2704.0	2677.2	2672.7	2663.8	2662.3	2660.8	2659.3
17.5°	4465.4	3893.6	3119.4	2827.5	2744.2	2706.9	2690.6	2669.7	2653.3	2648.9	2653.3
20°	4690.2	4026.2	3150.6	2849.9	2747.1	2695.0	2662.3	2626.5	2598.2	2581.9	2587.8
22.5°	4930.0	4164.6	3170.0	2843.9	2720.3	2648.9	2589.3	2547.6	2504.4	2476.1	2477.6
25°	5163.7	4285.2	3168.5	2812.7	2668.2	2577.4	2501.5	2447.9	2388.3	2358.5	2358.5
27.5°	5388.6	4393.9	3131.3	2757.6	2593.8	2492.5	2401.7	2337.7	2279.6	2251.3	2249.8
30°	5620.8	4484.8	3073.2	2677.2	2505.9	2394.3	2294.5	2239.4	2187.3	2160.5	2159.0
32.5°	5851.6	4568.1	2991.3	2577.4	2404.7	2297.5	2199.2	2148.6	2117.3	2117.3	2118.8
35°	6095.8	4626.2	2882.6	2461.3	2297.5	2194.7	2117.3	2087.5	2084.5	2066.7	2062.2
37.5°	6353.4	4663.4	2750.1	2342.1	2191.8	2095.0	2071.1	2035.4	2005.6	1966.9	1961.0
40°	6624.4	4700.7	2590.8	2218.6	2080.1	2026.5	2016.1	1968.4	1883.5	1788.2	1774.8
42.5°	6953.5	4726.0	2425.5	2095.0	1962.5	1944.6	1959.5	1877.6	1742.1	1670.6	1672.1
45°	7334.6	4767.7	2273.6	1972.9	1841.8	1841.8	1904.4	1797.2	1685.5	1640.8	1648.3
47.5°	7829.0	4864.4	2132.2	1838.9	1730.2	1760.0	1782.3	1700.4	1637.9	1582.8	1581.3
50°	8543.7	5096.7	1986.3	1703.4	1645.3	1704.9	1673.6	1625.9	1553.0	1508.3	1503.9
52.5°	9431.1	5233.7	1856.7	1581.3	1572.3	1631.9	1587.2	1542.6	1487.5	1427.9	1416.0
55°	10035.6	5259.0	1748.0	1491.9	1523.2	1517.3	1500.9	1460.7	1430.9	1352.0	1353.5
57.5°	10711.6	5309.6	1658.7	1438.3	1491.9	1426.4	1420.5	1386.2	1347.5	1293.9	1276.0
60°	11520.1	5388.6	1581.3	1417.5	1465.1	1366.9	1337.1	1323.7	1285.0	1258.2	1265.6
62.5°	12401.6	5460.0	1502.4	1420.5	1433.9	1308.8	1264.1	1259.7	1235.8	1226.9	1226.9
65°	13003.1	5265.0	1404.1	1417.5	1384.7	1249.2	1192.7	1191.2	1171.8	1168.8	1167.3
67.5°	12793.2	4647.1	1271.6	1375.8	1334.1	1189.7	1127.1	1121.2	1095.9	1097.4	1097.4
70°	11742.0	3765.6	1088.4	1273.1	1271.6	1136.1	1058.7	1039.3	1005.1	1011.0	1017.0
72.5°	9770.6	2790.3	842.8	1101.8	1171.8	1086.9	979.7	948.5	905.3	911.2	909.8
75°	7056.2	1896.9	613.5	838.3	1019.9	1028.9	902.3	848.7	796.6	805.5	808.5
77.5°	3610.7	1075.0	451.2	577.7	801.1	935.1	832.3	760.9	748.9	832.3	820.4
80°	1177.8	539.0	312.7	405.0	525.6	765.3	729.6	647.7	644.7	664.1	570.3
82.5°	351.4	227.8	201.0	266.5	290.3	586.7	629.8	489.9	421.4	443.7	458.6
85°	120.6	110.2	114.7	132.5	138.5	344.0	440.7	324.6	306.7	338.0	333.5
87.5°	28.3	38.7	32.8	29.8	29.8	83.4	171.2	135.5	187.6	125.1	120.6
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)