

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: P941104

Luminaire Tested: **GALN-SB4C-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20329 lumens
Efficiency: N/A
Efficacy: 101.3 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): 200.7
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



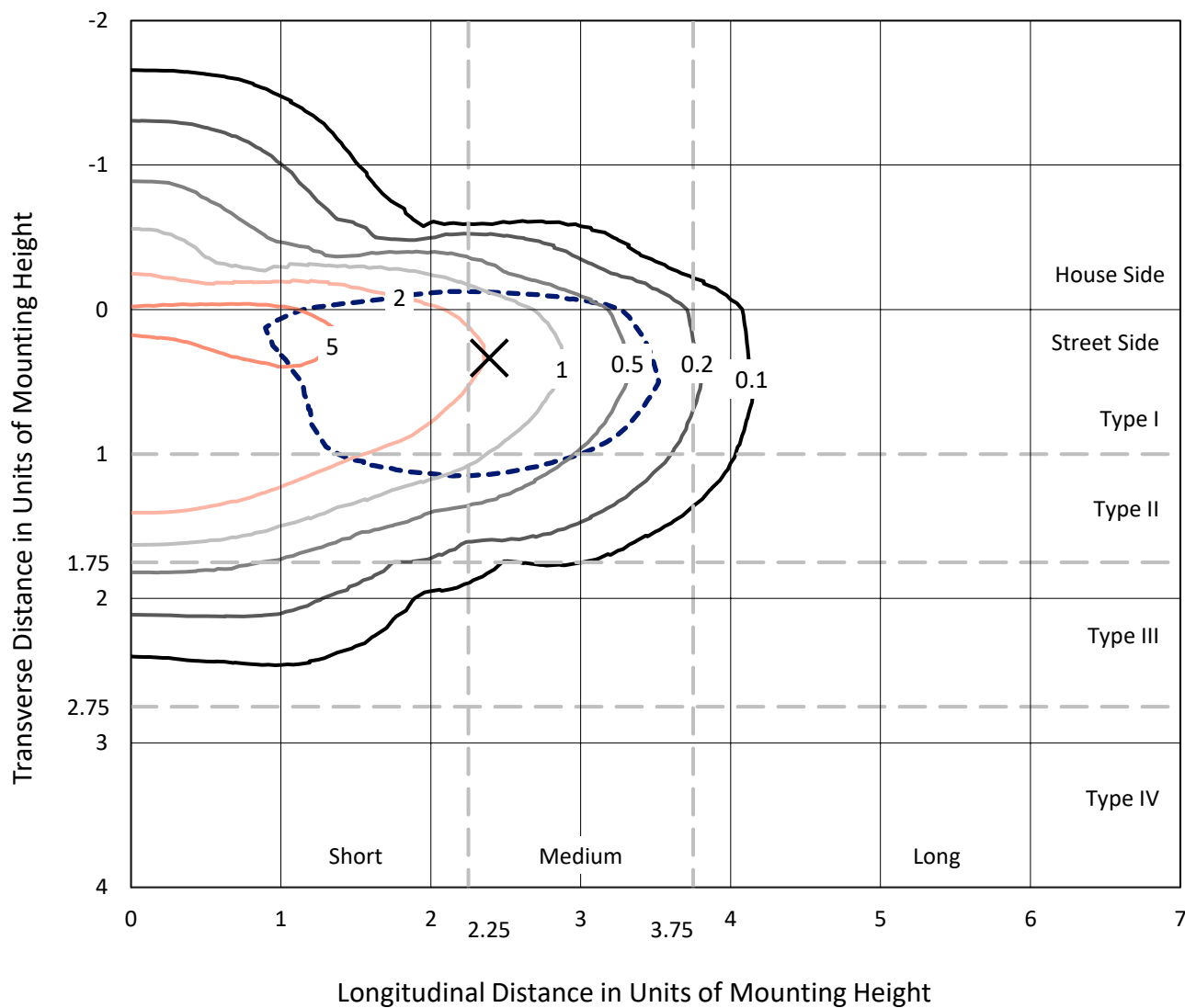
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Iso-Footcandle Lines of Horizontal Illumination

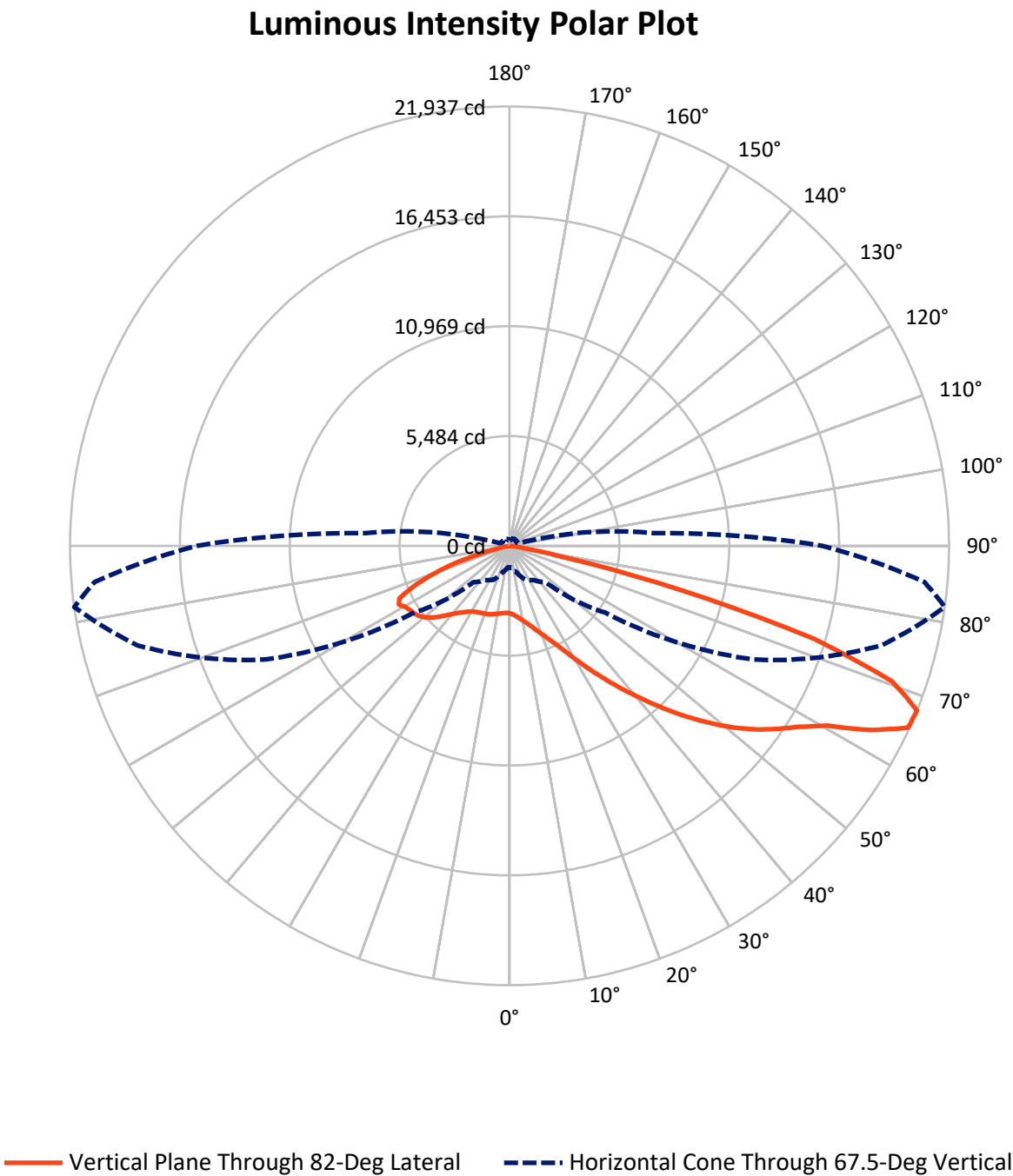
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type II - Medium - N/A

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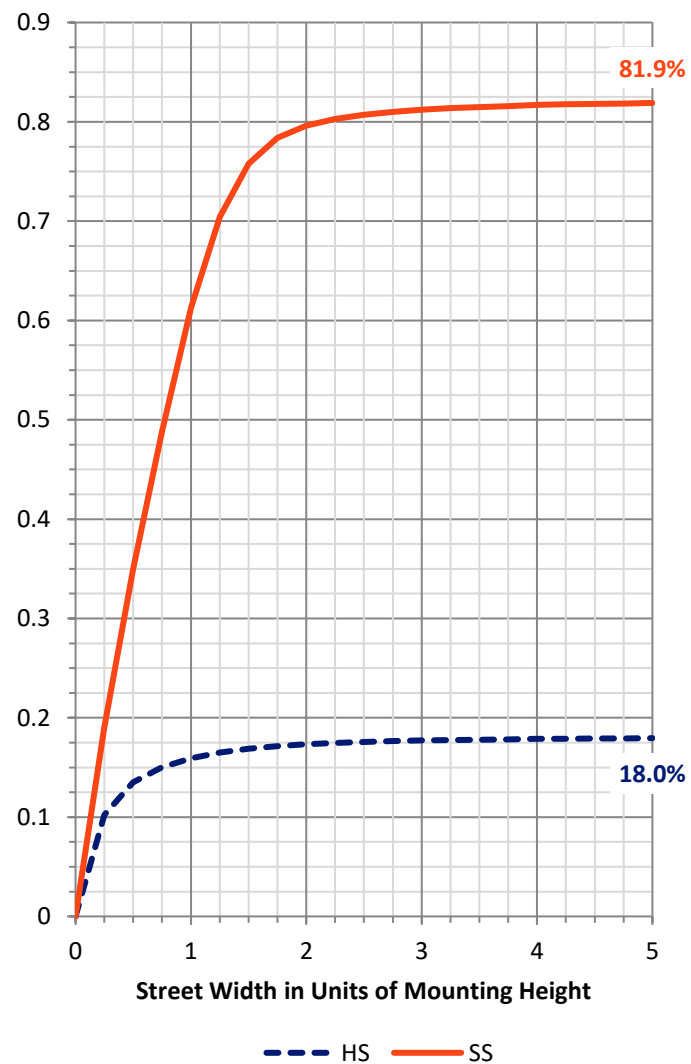
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3682.4	0.0	3682.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16646.6	0.0	16646.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	20329.0	0.0	20329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.0	1.5
10°-20°	779.7	3.8
20°-30°	1248.8	6.1
30°-40°	2208.3	10.9
40°-50°	3869.2	19.0
50°-60°	5160.4	25.4
60°-70°	4804.1	23.6
70°-80°	1843.8	9.1
80°-90°	114.5	0.6
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°	20329.0	100.0
0°-180°	20329.0	100.0

Coefficient of Utilization



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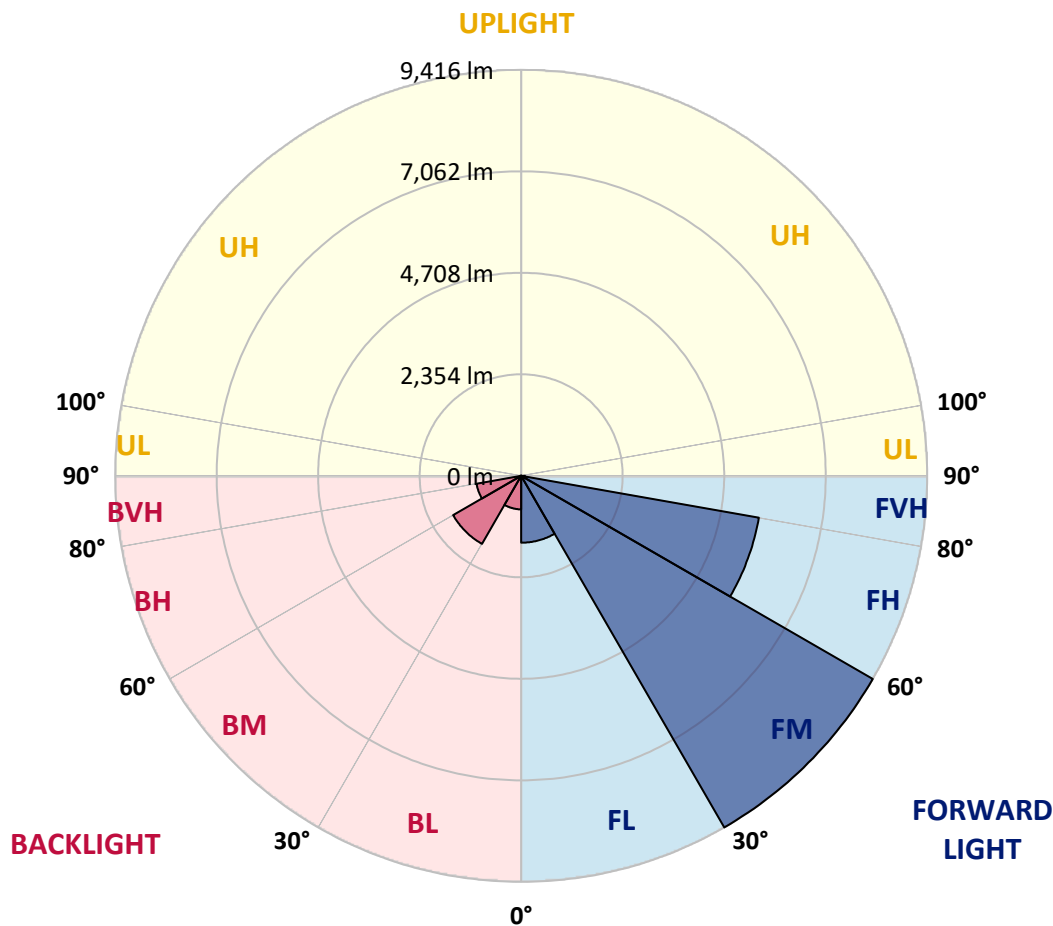
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1550.9	7.6			
FM	(30°-60°)	9415.6	46.3			
FH	(60°-80°)	5596.9	27.5			G3/7500
FVH	(80°-90°)	83.3	0.4			G1/100
BL	(0°-30°)	777.7	3.8	B2/1000		
BM	(30°-60°)	1822.4	9.0	B2/2500		
BH	(60°-80°)	1051.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	31.3	0.2			G1/100
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°	82°	85°
0°	3367.8	3367.8	3367.8	3367.8	3367.8	3367.8	3367.8	3367.8	3367.8	3367.8	3367.8
2.5°	3559.6	3580.1	3568.3	3562.5	3552.2	3537.6	3525.9	3489.3	3451.3	3426.4	3417.6
5°	3631.3	3651.8	3650.3	3656.2	3663.5	3667.9	3664.9	3624.0	3569.8	3527.4	3502.5
7.5°	3569.8	3593.2	3612.3	3641.5	3692.8	3746.9	3773.3	3764.5	3708.9	3650.3	3619.6
10°	3395.6	3420.5	3465.9	3534.7	3643.0	3760.1	3858.1	3903.5	3868.4	3804.0	3761.5
12.5°	3076.6	3101.4	3190.7	3340.0	3521.5	3725.0	3912.3	4033.8	4042.6	3978.2	3928.4
15°	2718.0	2742.9	2838.0	3025.3	3302.0	3628.4	3941.6	4171.4	4248.9	4193.3	4133.3
17.5°	2495.5	2517.5	2589.2	2739.9	3028.3	3435.2	3931.3	4317.7	4494.8	4450.9	4379.2
20°	2428.2	2447.2	2480.9	2586.2	2826.3	3234.6	3864.0	4455.3	4759.7	4734.9	4654.4
22.5°	2499.9	2517.5	2527.7	2574.5	2725.3	3102.9	3779.1	4595.8	5067.1	5070.0	4972.0
25°	2665.3	2682.8	2671.1	2700.4	2766.3	3061.9	3746.9	4761.2	5453.5	5485.7	5374.5
27.5°	2937.5	2939.0	2911.2	2909.7	2920.0	3123.4	3780.6	4938.3	5940.9	6000.9	5863.3
30°	3483.5	3461.5	3354.7	3239.0	3186.3	3307.8	3874.2	5147.6	6516.1	6623.0	6450.2
32.5°	4325.0	4292.8	4096.7	3820.1	3542.0	3604.9	4042.6	5386.2	7142.5	7335.7	7125.0
35°	5238.4	5229.6	5024.7	4613.4	4127.5	4027.9	4316.3	5699.4	7826.1	8133.4	7883.1
37.5°	6087.3	6082.9	5965.8	5481.3	4890.0	4617.8	4755.4	6109.2	8557.9	9002.8	8707.2
40°	6863.0	6876.2	6759.1	6325.8	5730.1	5374.5	5352.5	6615.6	9371.7	9949.8	9598.5
42.5°	7533.3	7548.0	7429.4	7108.9	6560.0	6211.7	6085.8	7236.2	10166.4	10967.0	10551.4
45°	7988.5	8079.3	8061.7	7805.6	7411.9	7050.3	6966.9	8014.9	11072.4	12045.7	11558.3
47.5°	8117.3	8200.8	8332.5	8367.6	8127.6	7771.9	7871.4	8953.1	11988.6	13125.9	12571.2
50°	7799.7	7877.3	8151.0	8515.4	8682.3	8572.5	8751.1	9958.6	12926.8	14203.1	13565.0
52.5°	7173.3	7252.3	7597.7	8174.4	8855.0	9200.4	9633.7	10949.5	13835.8	15223.3	14506.1
55°	6267.3	6350.7	6794.2	7447.0	8525.7	9459.5	10369.9	11938.9	14668.6	16141.0	15355.0
57.5°	5034.9	5096.4	5557.4	6470.7	7697.3	9201.9	10912.9	13019.0	15453.1	17042.6	16196.6
60°	3281.5	3335.6	3871.3	4890.0	6324.4	8341.3	11021.2	14223.6	16495.2	18215.0	17330.9
62.5°	2182.3	2218.9	2536.5	3284.4	4453.8	6688.8	10387.4	15185.2	18023.2	20255.3	19276.1
65°	1497.3	1533.9	1851.5	2372.6	2877.5	4424.6	8565.2	15057.9	19407.8	21875.5	20717.8
67.5°	1068.5	1099.2	1368.5	1860.3	2082.8	2570.1	5806.2	13430.3	19208.8	21937.0	20795.3
70°	765.5	783.0	1005.5	1449.0	1655.4	1544.1	3228.8	10271.8	16818.6	20256.7	19211.7
72.5°	535.7	541.5	698.2	1103.6	1333.4	1127.0	1536.8	6848.4	12720.5	15899.5	14894.0
75°	363.0	370.3	469.8	809.4	1069.9	860.6	813.8	3672.3	7467.5	8800.8	7889.0
77.5°	222.5	225.4	303.0	553.3	800.6	655.7	524.0	1555.8	2889.2	2836.5	2417.9
80°	125.9	125.9	193.2	344.0	545.9	423.0	367.4	661.6	914.8	803.5	708.4
82.5°	70.3	71.7	140.5	213.7	361.5	250.3	202.0	305.9	395.2	349.8	304.4
85°	29.3	32.2	86.4	101.0	172.7	124.4	82.0	128.8	146.4	130.3	95.1
87.5°	2.9	4.4	26.3	19.0	20.5	24.9	11.7	24.9	20.5	20.5	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°	3367.8	3367.8	3367.8	3367.8	3367.8	3367.8	3367.8	3367.8	3367.8	3367.8	3367.8
2.5°	3389.8	3367.8	3312.2	3247.8	3162.9	3121.9	3066.3	3028.3	2996.1	2999.0	2969.7
5°	3455.6	3400.0	3275.6	3120.5	2927.3	2789.7	2643.3	2542.3	2460.4	2442.8	2403.3
7.5°	3546.4	3458.6	3240.5	2960.9	2634.5	2387.2	2166.2	2024.2	1923.2	1891.0	1858.8
10°	3663.5	3536.1	3195.1	2760.4	2290.6	1975.9	1738.8	1627.6	1558.8	1535.4	1517.8
12.5°	3799.6	3625.4	3135.1	2516.0	1936.4	1633.4	1482.7	1427.0	1405.1	1397.8	1393.4
15°	3970.8	3736.7	3044.4	2226.2	1636.3	1424.1	1359.7	1352.4	1355.3	1352.4	1350.9
17.5°	4174.3	3858.1	2896.5	1927.6	1434.4	1317.3	1293.9	1299.7	1307.0	1305.6	1302.6
20°	4396.8	3978.2	2707.7	1662.7	1296.8	1241.2	1228.0	1233.8	1239.7	1236.8	1235.3
22.5°	4650.0	4107.0	2498.4	1456.3	1204.6	1170.9	1156.3	1157.7	1157.7	1151.9	1149.0
25°	4952.9	4248.9	2278.9	1310.0	1134.3	1108.0	1090.4	1084.6	1075.8	1058.2	1055.3
27.5°	5314.5	4399.7	2068.1	1207.5	1078.7	1053.8	1033.3	1018.7	996.7	967.5	964.5
30°	5721.4	4582.6	1889.6	1143.1	1034.8	1009.9	986.5	964.5	932.3	895.7	892.8
32.5°	6200.0	4778.8	1759.3	1100.7	995.3	968.9	941.1	914.8	879.6	843.1	844.5
35°	6770.8	5015.9	1683.2	1071.4	964.5	929.4	898.7	869.4	843.1	810.9	807.9
37.5°	7389.9	5267.6	1659.8	1056.7	944.0	889.9	854.8	834.3	831.3	812.3	810.9
40°	8067.6	5566.2	1677.3	1048.0	922.1	851.8	813.8	809.4	816.7	783.0	784.5
42.5°	8784.7	5920.4	1706.6	1037.7	891.4	813.8	777.2	777.2	771.3	724.5	724.5
45°	9560.5	6328.8	1735.9	1012.8	854.8	775.7	747.9	737.7	712.8	667.4	666.0
47.5°	10342.1	6744.4	1757.8	967.5	810.9	743.5	718.6	695.2	658.6	617.7	616.2
50°	11084.1	7117.7	1734.4	900.1	761.1	712.8	686.4	654.2	614.7	586.9	582.5
52.5°	11747.1	7441.1	1634.9	821.1	708.4	680.6	657.2	623.5	591.3	562.0	559.1
55°	12323.8	7703.1	1459.2	746.5	661.6	652.8	629.4	586.9	543.0	518.1	515.2
57.5°	12877.1	7902.2	1239.7	685.0	619.1	622.0	586.9	548.9	507.9	481.5	478.6
60°	13613.3	8168.6	1017.2	627.9	573.7	582.5	544.5	516.7	465.4	431.8	427.4
62.5°	14790.0	8582.8	807.9	557.6	521.1	524.0	507.9	474.2	412.7	373.2	370.3
65°	15723.8	8430.5	636.7	481.5	461.0	465.4	465.4	428.8	363.0	317.6	313.2
67.5°	15618.5	7218.7	507.9	406.9	404.0	406.9	417.1	386.4	322.0	285.4	279.6
70°	14387.5	5741.8	406.9	338.1	351.3	344.0	373.2	352.7	289.8	253.2	248.8
72.5°	11739.8	4136.2	310.3	279.6	269.3	281.0	336.6	317.6	241.5	200.5	196.1
75°	6860.1	2207.2	231.3	221.0	194.7	234.2	298.6	270.8	184.4	147.8	143.4
77.5°	2233.5	769.9	169.8	162.5	144.9	188.8	254.7	228.3	150.8	117.1	112.7
80°	598.6	232.7	115.6	106.8	93.7	140.5	202.0	181.5	108.3	76.1	74.6
82.5°	240.0	98.1	67.3	60.0	51.2	96.6	159.5	146.4	80.5	48.3	48.3
85°	77.6	32.2	24.9	19.0	23.4	60.0	95.1	99.5	57.1	24.9	19.0
87.5°	10.2	4.4	4.4	5.9	4.4	10.2	29.3	27.8	16.1	2.9	0.0
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)