

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: P954146

Luminaire Tested: **GALN-SB7C-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41827 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 350.5
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

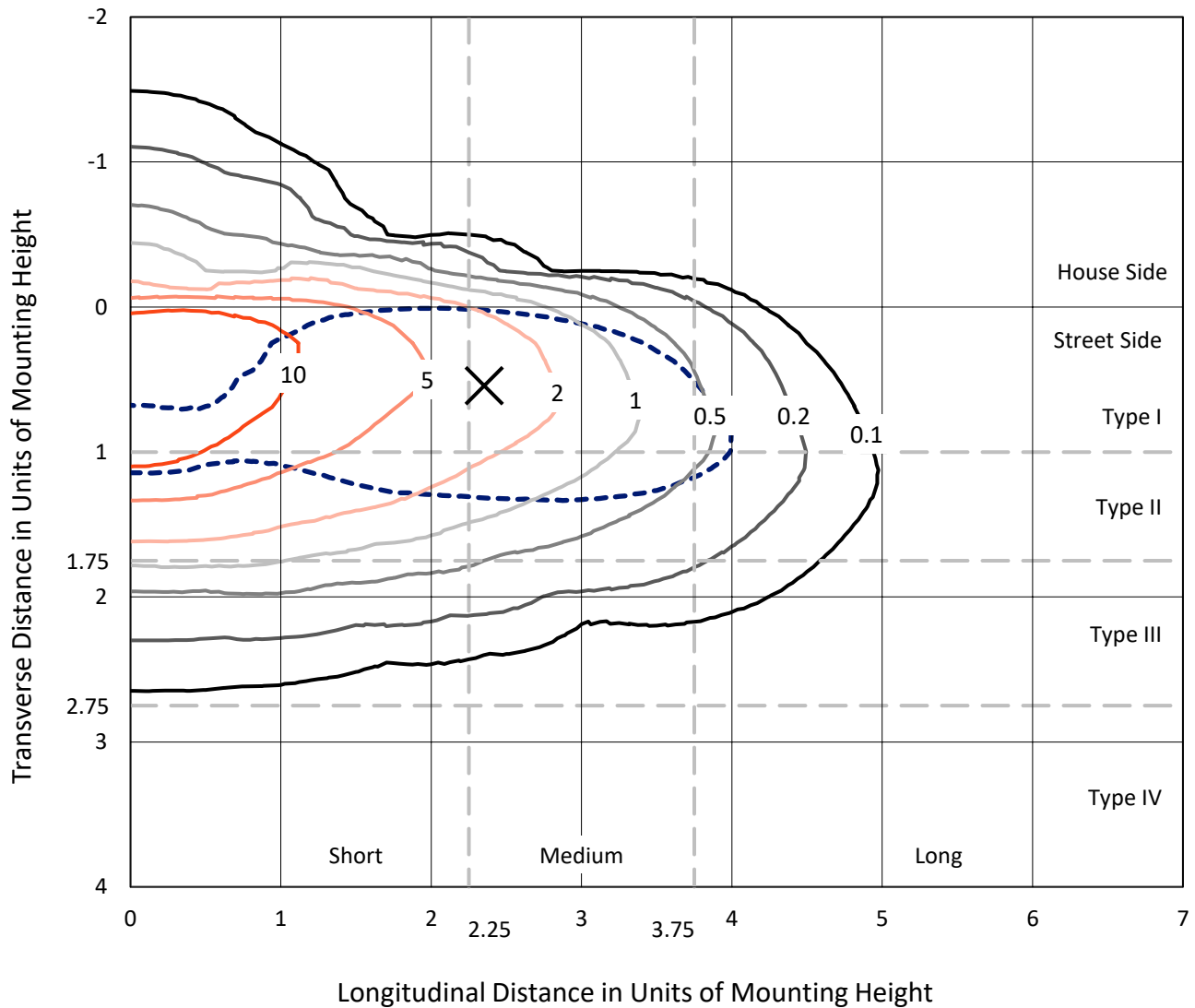


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

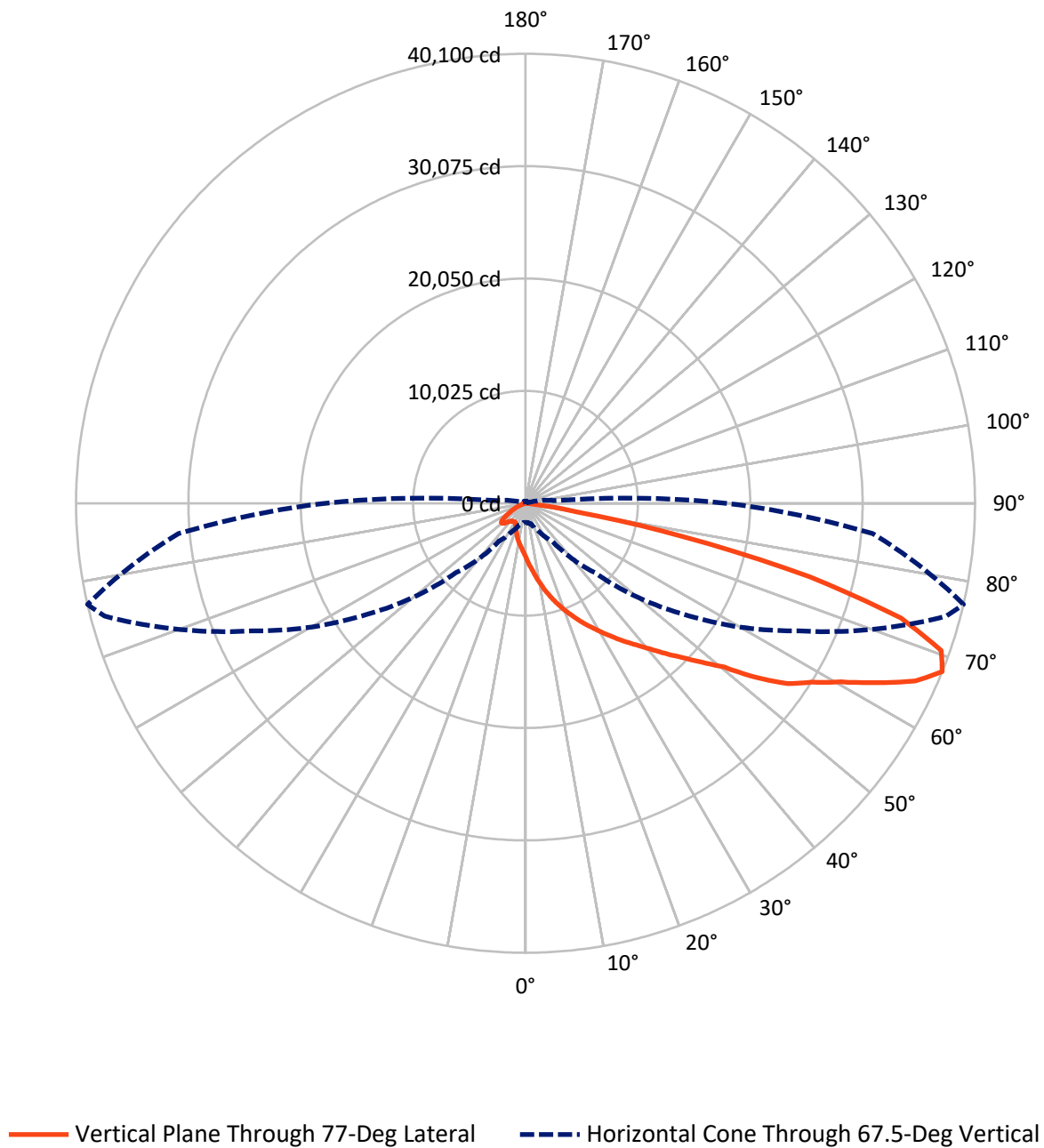


Based on 25 foot mounting height. Maximum calculated value = 18 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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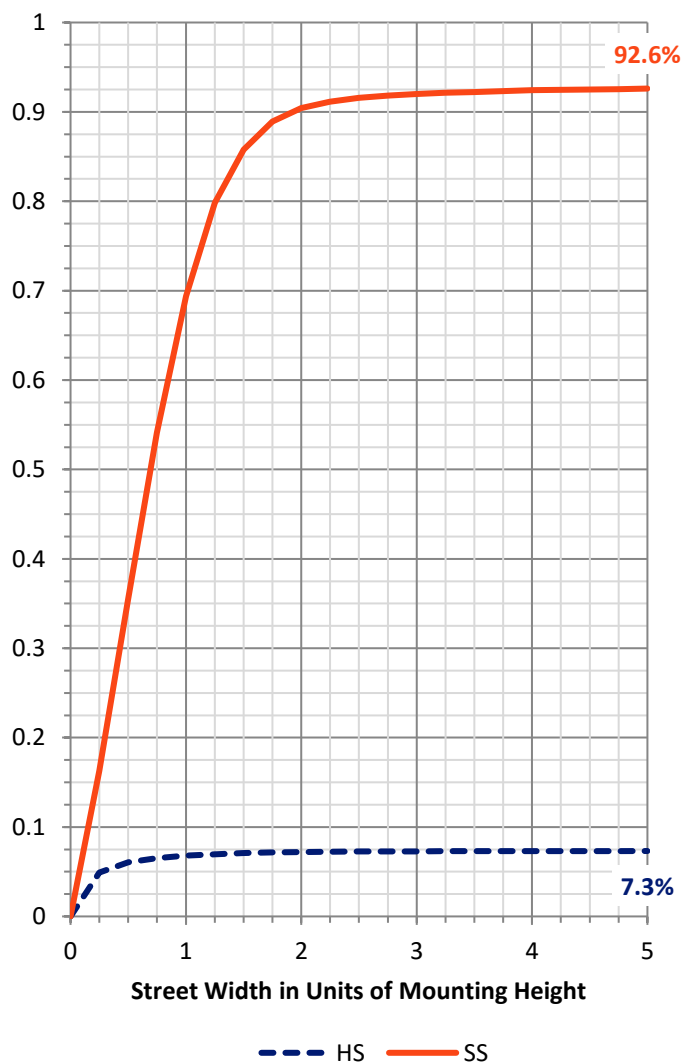
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3077.2	0.0	3077.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	38749.8	0.0	38749.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	41827.0	0.0	41827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.3	1.2
10°-20°	1723.9	4.1
20°-30°	3326.8	8.0
30°-40°	5775.4	13.8
40°-50°	8385.6	20.0
50°-60°	9629.8	23.0
60°-70°	8360.5	20.0
70°-80°	3937.9	9.4
80°-90°	194.7	0.5
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°	41827.0	100.0
0°-180°	41827.0	100.0

Coefficient of Utilization



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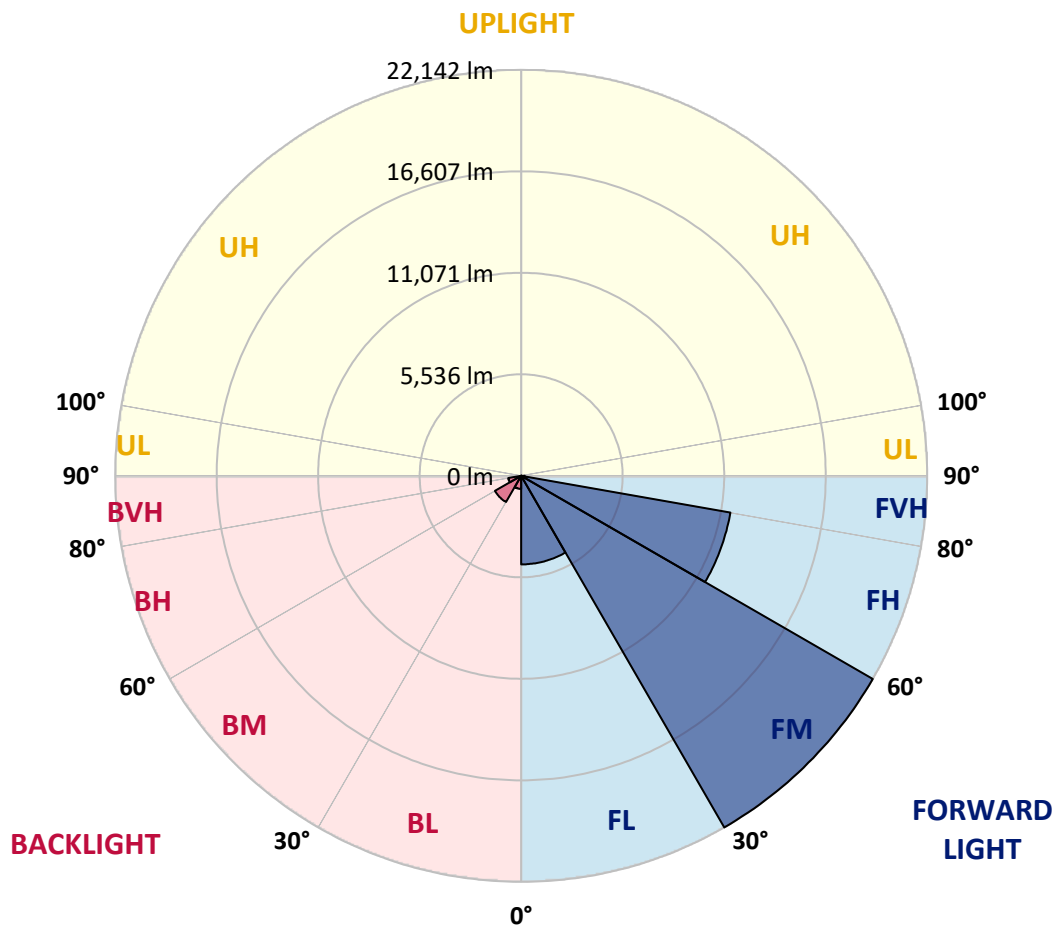
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4830.6	11.5			
FM	(30°-60°)	22142.1	52.9			
FH	(60°-80°)	11586.0	27.7			G4/12000
FVH	(80°-90°)	191.2	0.5			G2/225
BL	(0°-30°)	712.4	1.7	B2/1000		
BM	(30°-60°)	1648.8	3.9	B2/2500		
BH	(60°-80°)	712.4	1.7	B2/1000		G2/1000
BVH	(80°-90°)	3.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4823.3	4823.3	4823.3	4823.3	4823.3	4823.3	4823.3	4823.3	4823.3	4823.3	4823.3
2.5°	6677.8	6719.3	6659.6	6545.3	6373.9	6262.2	5989.5	5732.3	5446.6	5355.7	5070.0
5°	8140.1	8176.4	8108.9	7984.2	7755.7	7537.5	7179.1	6641.4	6083.0	5903.8	5397.3
7.5°	9223.2	9243.9	9218.0	9103.7	8885.5	8638.8	8238.8	7602.4	6773.9	6576.5	5799.9
10°	10002.4	10069.9	10062.1	10018.0	9872.5	9672.5	9246.5	8521.9	7547.9	7293.3	6254.4
12.5°	10519.2	10594.6	10638.7	10737.4	10729.6	10602.4	10228.3	9462.1	8319.3	8020.6	6766.1
15°	10669.9	10750.4	10919.2	11147.8	11350.4	11415.3	11153.0	10384.2	9168.6	8786.8	7290.7
17.5°	10584.2	10708.8	10911.4	11272.5	11716.6	12010.1	11981.5	11275.1	9940.0	9503.7	7805.0
20°	10773.8	10893.3	11051.7	11355.6	11872.5	12404.9	12617.9	12127.0	10706.3	10249.1	8345.3
22.5°	11823.1	11802.3	11817.9	11867.3	12176.3	12703.6	13142.6	12901.0	11464.7	10997.2	8916.7
25°	13485.4	13391.9	13233.5	12965.9	12888.0	13142.6	13599.7	13586.7	12264.7	11763.4	9501.1
27.5°	15391.9	15376.3	15004.9	14360.7	13997.1	13898.4	14116.6	14254.2	13056.8	12521.8	10088.1
30°	17217.8	17259.4	16758.1	16041.2	15373.7	14986.7	14789.3	14888.0	13862.0	13340.0	10693.3
32.5°	18807.4	18851.5	18306.1	17467.1	16641.2	16173.7	15758.1	15513.9	14739.9	14171.1	11358.2
35°	20150.2	20194.4	19568.4	18641.1	17760.6	17337.3	16867.2	16199.6	15623.0	15093.2	12098.4
37.5°	21350.2	21337.2	20498.2	19563.2	18698.3	18363.2	18116.5	17043.8	16532.1	16020.4	12919.2
40°	22059.2	22113.8	21396.9	20365.8	19526.8	19282.7	19267.1	18090.5	17581.4	17085.3	13817.9
42.5°	22267.0	22363.1	21843.7	20996.9	20235.9	19971.0	20378.8	19222.9	18802.2	18319.1	14833.4
45°	21893.0	21986.5	21750.2	21163.2	20719.0	20547.6	21334.6	20396.9	20106.0	19628.1	15978.9
47.5°	20802.1	20919.0	20976.2	20851.5	20846.3	21020.3	22191.7	21633.3	21654.1	21165.8	17306.1
50°	18690.5	18887.9	19412.5	19854.1	20537.2	21394.3	23025.5	22973.5	23399.5	22978.7	19035.9
52.5°	14851.6	15132.1	16939.9	18147.6	19682.7	21324.2	23942.3	25124.1	26461.7	25846.2	21474.8
55°	11934.8	11934.8	13404.9	15664.6	18015.2	20861.9	24342.3	26521.5	28547.4	28402.0	23191.7
57.5°	9729.7	9846.5	10784.2	12781.5	15602.2	19760.6	24589.1	27399.4	30227.9	30121.4	24869.6
60°	6005.1	6257.0	8028.4	9999.8	12856.9	17799.6	24433.2	28287.7	32266.8	32352.5	26890.3
62.5°	3381.7	3475.2	4264.8	7194.6	9997.2	15163.3	23241.0	28783.8	34874.5	35238.2	28973.4
65°	2335.0	2381.8	2685.7	4477.8	6929.7	12072.5	20911.2	28474.7	37487.5	38222.5	30739.6
67.5°	1696.1	1719.4	1909.0	2735.0	4111.6	8753.0	17259.4	26916.3	38871.9	40100.4	31077.2
70°	1303.9	1319.5	1457.1	1797.4	2428.5	5402.5	12534.8	23817.6	37869.3	39336.8	29347.4
72.5°	1059.7	1075.3	1181.8	1329.8	1610.4	3194.7	7597.2	19342.4	33443.4	35027.8	24983.9
75°	893.5	914.3	1010.4	1106.5	1262.3	2051.9	3563.6	13469.8	25150.1	26189.0	17373.6
77.5°	496.1	457.1	820.8	916.9	1064.9	1298.7	1667.5	7927.1	14085.4	14373.7	7708.9
80°	309.1	319.5	651.9	737.6	818.2	654.5	763.6	3051.9	4883.0	4638.9	1493.5
82.5°	18.2	41.6	501.3	532.5	561.0	280.5	288.3	1036.3	1176.6	1080.5	264.9
85°	0.0	0.0	228.6	184.4	194.8	80.5	83.1	241.6	158.4	171.4	51.9
87.5°	0.0	0.0	0.0	5.2	0.0	7.8	15.6	20.8	7.8	10.4	18.2
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°	4823.3	4823.3	4823.3	4823.3	4823.3	4823.3	4823.3	4823.3	4823.3	4823.3	4823.3
2.5°	4888.2	4706.4	4337.6	3976.5	3683.0	3410.3	3215.5	3031.1	2937.6	2932.4	2927.2
5°	5036.3	4654.4	3916.8	3264.9	2740.2	2319.4	2046.7	1851.9	1753.2	1719.4	1714.2
7.5°	5244.0	4670.0	3548.0	2641.5	2023.3	1662.3	1506.5	1444.1	1423.3	1400.0	1394.8
10°	5506.4	4706.4	3218.1	2127.2	1594.8	1413.0	1350.6	1324.6	1309.1	1293.5	1288.3
12.5°	5799.9	4740.2	2890.8	1766.2	1402.6	1309.1	1264.9	1233.7	1213.0	1194.8	1189.6
15°	6085.6	4760.9	2550.6	1514.3	1303.9	1228.5	1181.8	1148.0	1119.5	1098.7	1096.1
17.5°	6368.7	4789.5	2231.1	1363.6	1223.3	1148.0	1101.3	1059.7	1036.3	1013.0	1010.4
20°	6683.0	4784.3	1929.8	1257.1	1142.8	1067.5	1018.2	979.2	955.8	929.8	927.3
22.5°	6973.9	4758.3	1664.9	1166.2	1059.7	987.0	932.4	893.5	870.1	849.3	846.7
25°	7308.9	4737.6	1444.1	1083.1	981.8	909.1	849.3	813.0	787.0	768.8	766.2
27.5°	7631.0	4706.4	1283.1	1007.8	906.5	836.3	779.2	737.6	714.3	701.3	701.3
30°	7947.9	4698.6	1223.3	935.0	838.9	768.8	711.7	672.7	654.5	649.3	646.7
32.5°	8329.7	4719.4	1249.3	909.1	776.6	706.5	651.9	623.4	605.2	605.2	605.2
35°	8737.5	4714.2	1288.3	932.4	735.0	644.1	602.6	584.4	566.2	566.2	566.2
37.5°	9249.1	4722.0	1319.5	971.4	719.5	592.2	568.8	545.4	535.1	535.1	535.1
40°	10012.8	4979.1	1303.9	1005.2	714.3	555.8	509.1	501.3	493.5	493.5	493.5
42.5°	10947.8	5537.5	1324.6	1007.8	711.7	529.9	467.5	483.1	464.9	462.3	459.7
45°	11971.2	6147.9	1457.1	953.2	709.1	516.9	446.7	464.9	436.4	436.4	436.4
47.5°	12986.7	6753.1	1592.2	875.3	701.3	514.3	428.6	418.2	410.4	413.0	413.0
50°	14386.7	7246.6	1644.1	768.8	683.1	509.1	394.8	397.4	392.2	397.4	397.4
52.5°	15911.3	7350.5	1581.8	649.3	631.2	493.5	371.4	381.8	379.2	384.4	384.4
55°	16862.0	7238.8	1306.5	540.2	550.6	431.2	348.0	368.8	368.8	368.8	368.8
57.5°	17843.8	6763.5	927.3	439.0	457.1	353.2	327.3	355.8	353.2	350.6	350.6
60°	18550.2	5994.7	610.4	361.0	363.6	290.9	303.9	335.1	332.5	319.5	319.5
62.5°	19077.5	5145.3	392.2	306.5	277.9	262.3	277.9	303.9	293.5	264.9	259.7
65°	19017.8	3968.7	301.3	262.3	228.6	228.6	241.6	264.9	233.8	187.0	181.8
67.5°	17908.7	2685.7	249.3	220.8	192.2	189.6	200.0	220.8	200.0	158.4	153.2
70°	15926.9	1755.8	200.0	171.4	153.2	140.3	161.0	189.6	168.8	127.3	122.1
72.5°	12927.0	1070.1	150.6	124.7	111.7	90.9	127.3	155.8	135.1	93.5	88.3
75°	8363.4	545.4	103.9	80.5	59.7	54.5	93.5	116.9	93.5	57.1	49.3
77.5°	3199.9	228.6	57.1	36.4	31.2	26.0	51.9	70.1	39.0	13.0	10.4
80°	615.6	96.1	28.6	18.2	15.6	10.4	7.8	5.2	0.0	0.0	0.0
82.5°	106.5	31.2	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)