

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: P458230

Luminaire Tested: **GALN-SA9C-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46768 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

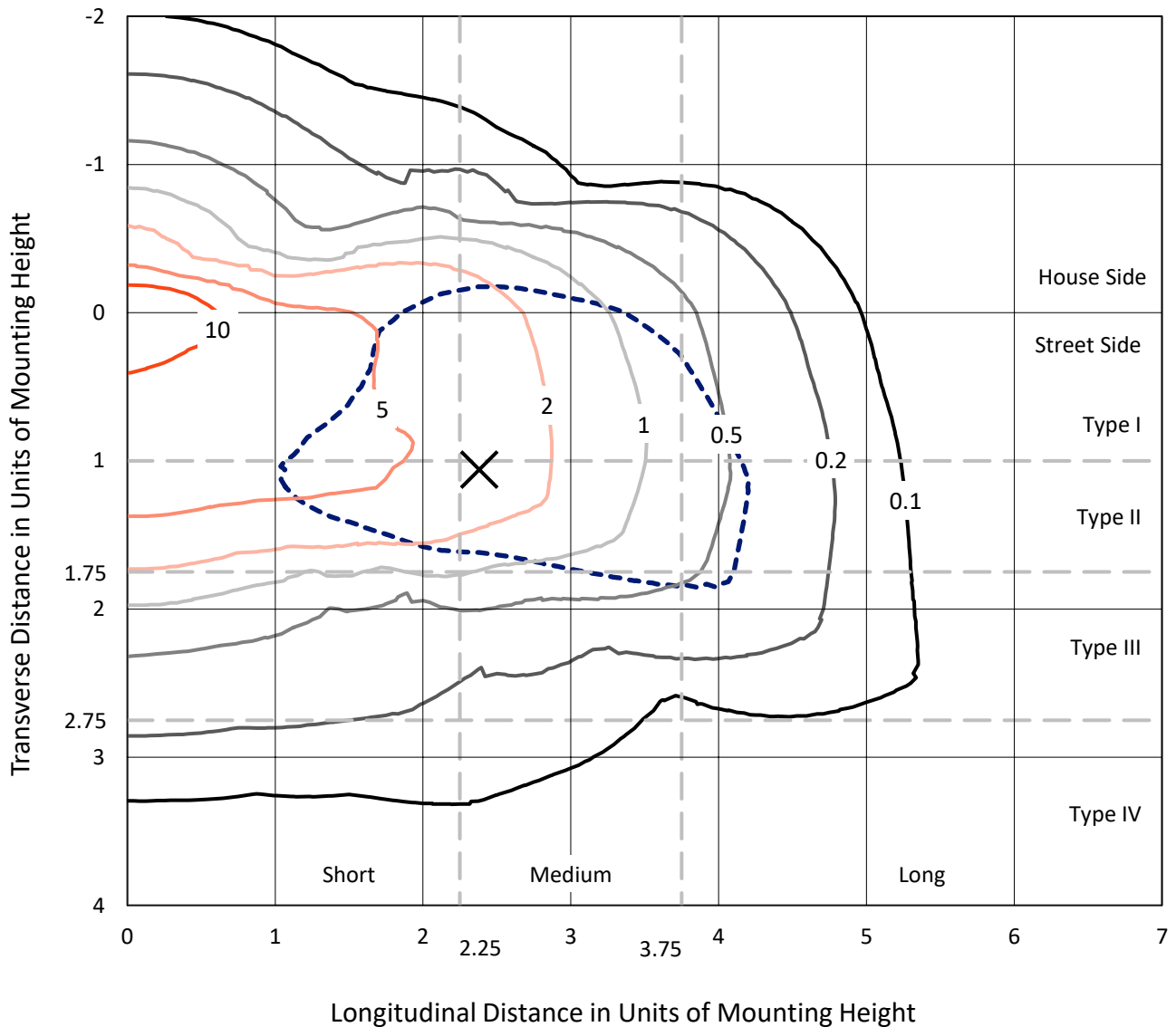
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

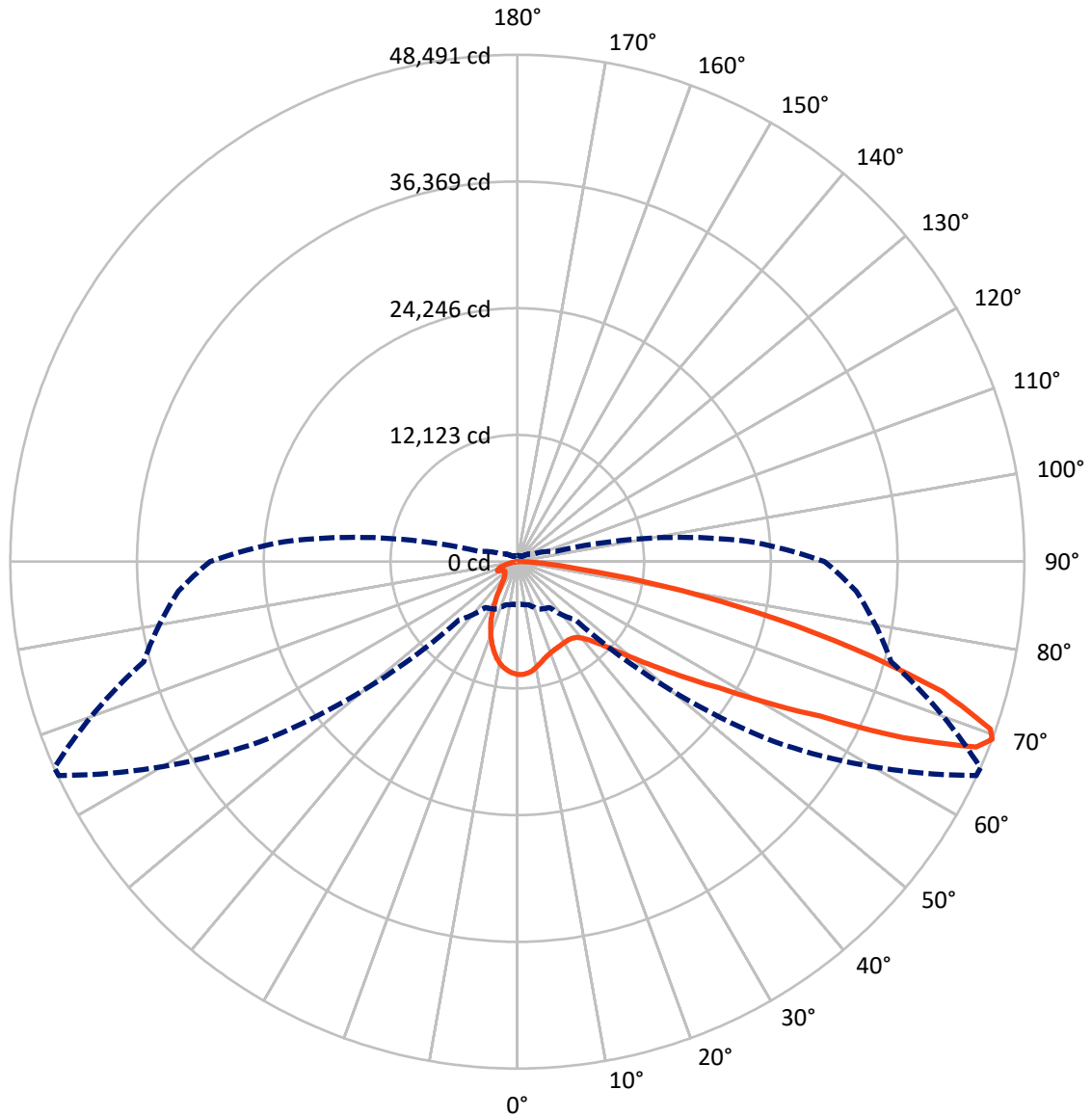
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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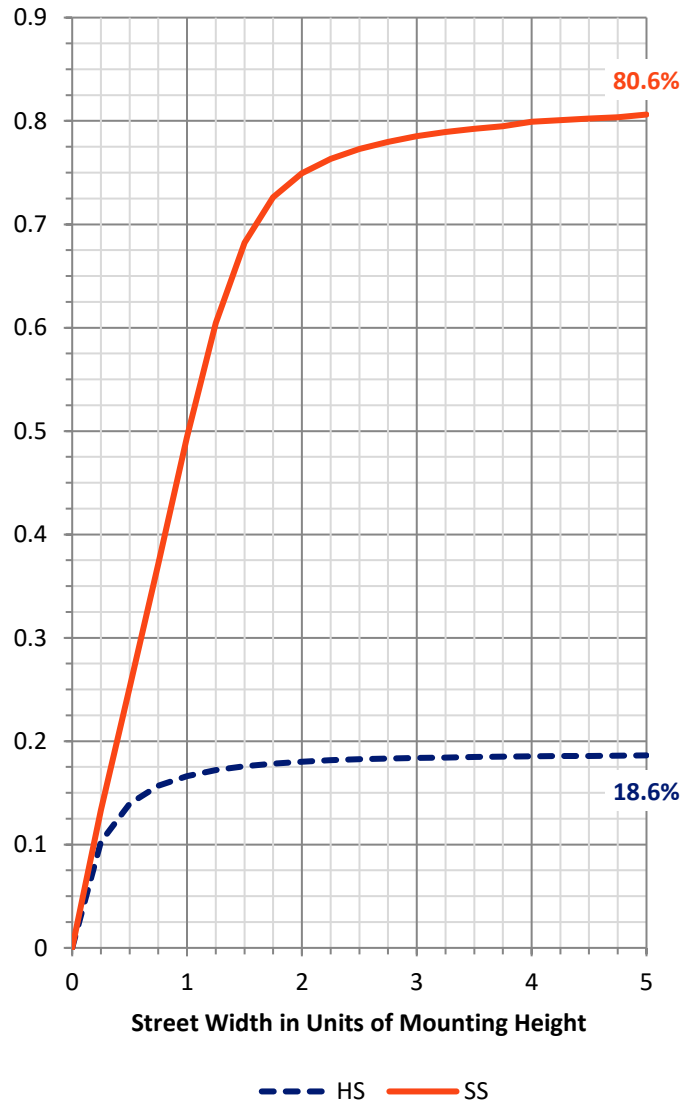
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8795.3	0.0	8795.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	37972.7	0.0	37972.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	46768.0	0.0	46768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	937.9	2.0
10°-20°	2224.5	4.8
20°-30°	3028.4	6.5
30°-40°	4069.5	8.7
40°-50°	6076.5	13.0
50°-60°	9665.7	20.7
60°-70°	11888.2	25.4
70°-80°	7735.0	16.5
80°-90°	1142.2	2.4
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°	46768.0	100.0
0°-180°	46768.0	100.0

Coefficient of Utilization



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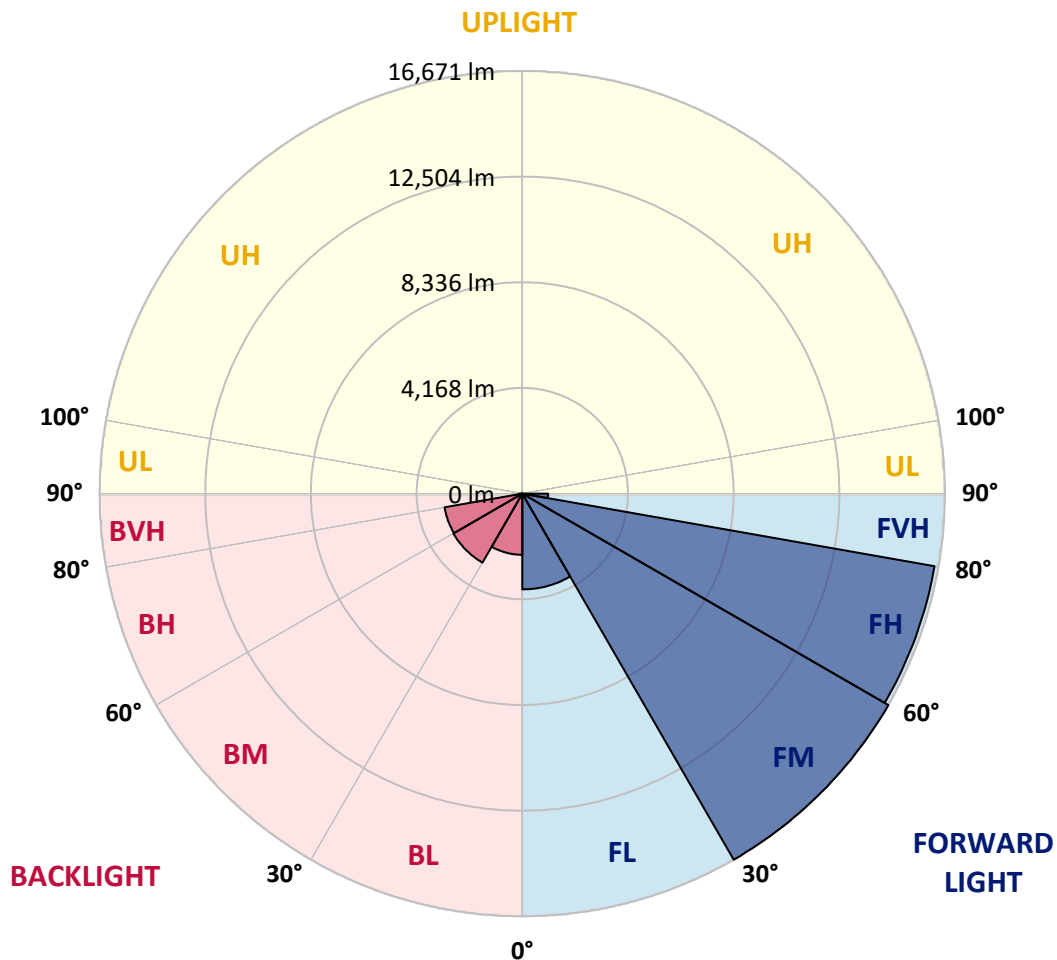
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3776.5	8.1			
FM	(30°-60°)	16671.4	35.6			
FH	(60°-80°)	16509.3	35.3			G5
FVH	(80°-90°)	1015.5	2.2			G5
BL	(0°-30°)	2414.3	5.2	B3/2500		
BM	(30°-60°)	3140.3	6.7	B3/5000		
BH	(60°-80°)	3113.9	6.7	B4/5000		G4/5000
BVH	(80°-90°)	126.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10800.0	10800.0	10800.0	10800.0	10800.0	10800.0	10800.0	10800.0	10800.0	10800.0	10800.0
2.5°	10421.9	10463.3	10510.0	10561.8	10660.2	10714.6	10753.4	10797.4	10802.6	10825.9	10807.8
5°	9652.7	9701.9	9771.8	9870.2	10017.9	10248.4	10486.6	10680.9	10704.2	10813.0	10844.1
7.5°	9010.4	9038.9	9095.9	9253.8	9463.6	9720.0	10067.1	10460.7	10517.7	10776.7	10867.4
10°	8487.2	8515.7	8583.0	8746.2	8953.4	9274.6	9655.3	10173.3	10219.9	10665.4	10872.5
12.5°	8096.1	8122.0	8194.6	8355.1	8593.4	8893.8	9313.4	9862.5	9929.8	10517.7	10823.3
15°	7798.3	7847.5	7907.1	8039.2	8290.4	8580.5	8987.1	9577.6	9632.0	10362.3	10789.7
17.5°	7671.4	7694.7	7736.1	7857.9	8041.7	8326.6	8735.9	9354.8	9419.6	10253.6	10781.9
20°	7676.6	7699.9	7707.6	7775.0	7907.1	8153.1	8557.1	9178.7	9256.4	10157.7	10794.9
22.5°	7852.7	7855.3	7826.8	7803.5	7855.3	8059.9	8430.2	9046.6	9137.3	10116.3	10805.2
25°	8124.6	8171.2	8129.8	8021.0	7925.2	8023.6	8381.0	8974.1	9059.6	10056.7	10792.3
27.5°	8564.9	8572.7	8539.0	8391.4	8142.8	8070.2	8360.3	8919.7	8992.3	10012.7	10727.5
30°	9155.4	9132.1	9101.0	8937.9	8546.8	8248.9	8404.3	8870.5	8945.6	9947.9	10649.8
32.5°	9753.7	9826.2	9797.7	9606.1	9098.4	8596.0	8546.8	8865.3	8927.5	9898.7	10564.3
35°	10388.2	10421.9	10556.6	10458.2	9937.6	9158.0	8813.6	8945.6	8994.8	9901.3	10504.8
37.5°	10885.5	10976.1	11292.1	11377.6	10888.1	9901.3	9246.1	9173.6	9194.3	10028.2	10528.1
40°	11486.4	11641.8	12048.4	12398.0	12076.9	10867.4	9981.6	9595.7	9621.6	10333.8	10680.9
42.5°	12247.8	12356.6	12903.1	13377.0	13325.2	12144.2	10872.5	10287.2	10300.2	10942.5	11108.2
45°	13138.7	13294.1	13908.0	14620.2	14741.9	13589.4	12159.7	11333.6	11325.8	11887.8	11905.9
47.5°	14278.3	14374.1	14982.8	15759.8	16251.8	15404.9	13721.5	12835.7	12752.8	13265.6	13118.0
50°	15327.2	15477.5	15938.5	16788.0	18013.0	17531.3	15775.3	14783.4	14589.1	15068.2	14819.6
52.5°	15767.5	15925.5	16314.0	17368.1	19522.9	20281.8	18383.4	17106.5	16782.8	17150.6	17059.9
55°	15003.5	15208.1	15570.7	16852.7	20186.0	23454.5	21900.5	19792.3	19556.6	19398.6	19424.5
57.5°	12949.7	13143.9	13633.4	15047.5	19393.4	25756.9	26922.4	23244.7	22739.6	22011.9	22136.2
60°	9857.3	9979.0	10232.8	11799.7	17044.4	26355.2	32625.4	27608.7	27287.6	24614.7	24702.8
62.5°	7000.6	7137.9	7314.0	8096.1	12478.3	24669.1	37090.5	33702.8	32555.5	27310.9	27225.4
65°	5684.9	5591.7	5804.0	6169.2	7321.7	19118.9	38095.4	42161.6	40581.7	30861.7	29675.5
67.5°	4674.8	4576.4	4786.2	5436.3	5568.4	11097.9	34474.6	47652.2	47336.2	34723.3	32164.4
69°	4138.7	4086.9	4270.8	5011.5	5345.6	7881.2	30032.9	48416.3	48491.4	36999.8	32547.7
70°	3729.5	3750.2	3928.9	4796.6	5244.6	6498.1	25668.8	47362.1	47999.3	38136.8	32133.3
72.5°	2745.3	2789.4	3038.0	3973.0	5148.8	5514.0	15275.4	41369.0	42495.7	38204.1	29395.8
75°	1919.1	1898.4	2118.6	2991.4	4863.9	5464.8	8971.5	31993.5	33270.3	33021.7	24700.2
77.5°	1256.1	1289.8	1465.9	2113.4	4092.1	5423.3	5848.1	22698.2	23527.0	22084.4	14609.8
80°	885.8	883.2	981.6	1442.6	3035.4	5211.0	4788.8	14306.8	14097.0	8678.9	4333.0
82.5°	507.6	543.9	657.8	1015.3	2030.5	4586.8	4405.5	6842.6	6246.9	2473.4	1463.3
85°	282.3	295.3	391.1	613.8	1186.2	3455.0	3846.1	3113.1	2937.0	1033.4	629.4
87.5°	90.6	98.4	163.2	310.8	538.7	1631.7	2178.1	1437.4	1326.0	373.0	253.8
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°	10800.0	10800.0	10800.0	10800.0	10800.0	10800.0	10800.0	10800.0	10800.0	10800.0	10800.0
2.5°	10815.6	10846.6	10763.8	10683.5	10611.0	10510.0	10419.3	10344.2	10292.4	10284.6	10258.7
5°	10851.8	10854.4	10696.4	10484.1	10276.9	10048.9	9813.3	9644.9	9486.9	9398.9	9354.8
7.5°	10877.7	10854.4	10569.5	10225.1	9826.2	9411.8	8997.4	8665.9	8409.5	8308.5	8347.4
10°	10867.4	10794.9	10377.9	9826.2	9246.1	8627.1	8031.4	7565.2	7137.9	6917.7	6922.9
12.5°	10810.4	10691.3	10093.0	9378.2	8526.1	7697.3	6785.6	6156.3	5661.6	5368.9	5278.3
15°	10761.2	10554.0	9758.9	8769.5	7710.2	6526.6	5415.6	4638.6	4224.2	3993.7	3991.1
17.5°	10709.4	10421.9	9393.7	8124.6	6772.7	5249.8	4084.3	3491.2	3297.0	3320.3	3281.4
20°	10655.0	10266.5	9013.0	7407.2	5630.5	3916.0	3058.7	2817.8	2872.2	2978.4	2994.0
22.5°	10592.8	10100.7	8603.8	6617.3	4428.8	2947.3	2481.2	2444.9	2584.8	2750.5	2773.8
25°	10497.0	9893.6	8088.4	5791.1	3416.1	2375.0	2173.0	2198.9	2336.1	2476.0	2491.5
27.5°	10362.3	9637.1	7567.8	4760.3	2566.6	2038.3	1986.5	2020.1	2087.5	2173.0	2193.7
30°	10181.0	9347.1	6969.5	3869.4	2056.4	1869.9	1849.2	1867.3	1906.2	1942.5	1952.8
32.5°	9999.7	9067.4	6366.1	2962.9	1833.7	1758.6	1737.8	1737.8	1737.8	1743.0	1745.6
35°	9831.4	8803.2	5718.6	2307.6	1717.1	1670.5	1642.0	1610.9	1605.8	1587.6	1587.6
37.5°	9738.2	8562.3	5029.7	1932.1	1631.7	1598.0	1559.1	1507.3	1478.9	1481.4	1476.3
40°	9756.3	8404.3	4402.9	1719.7	1561.7	1525.5	1465.9	1406.3	1388.2	1388.2	1383.0
42.5°	9960.9	8352.5	3802.0	1608.3	1494.4	1453.0	1377.8	1323.5	1313.1	1310.5	1315.7
45°	10432.3	8479.4	3263.3	1535.8	1437.4	1375.3	1300.1	1250.9	1240.6	1240.6	1238.0
47.5°	11351.7	8891.2	2877.4	1489.2	1396.0	1315.7	1238.0	1188.8	1170.7	1165.5	1165.5
50°	12781.3	9784.8	2589.9	1447.8	1344.2	1261.3	1181.0	1124.0	1095.5	1093.0	1090.4
52.5°	14767.8	11178.2	2478.6	1416.7	1287.2	1204.3	1116.3	1061.9	1025.6	1017.8	1012.7
55°	17091.0	13123.2	2631.4	1393.4	1227.6	1139.6	1048.9	991.9	958.3	942.7	940.1
57.5°	19781.9	15459.3	3211.5	1362.3	1173.2	1069.6	981.6	924.6	888.3	870.2	865.0
60°	22198.3	17860.2	4224.2	1344.2	1126.6	994.5	903.9	852.1	818.4	800.3	797.7
62.5°	24853.0	20149.7	5433.7	1393.4	1105.9	922.0	831.4	784.8	756.3	738.1	738.1
65°	27689.0	22441.8	6234.0	1559.1	1137.0	865.0	753.7	714.8	688.9	676.0	673.4
67.5°	29600.4	23234.3	5135.8	1730.1	1214.7	802.9	678.6	647.5	631.9	619.0	619.0
69°	29393.2	22232.0	3789.1	1774.1	1238.0	771.8	637.1	613.8	593.1	587.9	582.7
70°	28737.9	21089.8	3175.3	1745.6	1219.9	743.3	611.2	582.7	564.6	559.4	556.8
72.5°	25596.3	18290.1	2364.6	1517.7	1038.6	644.9	541.3	515.4	499.9	492.1	492.1
75°	21266.0	14949.1	1846.6	1206.9	813.2	543.9	463.6	442.9	429.9	424.7	422.2
77.5°	11918.9	8347.4	1326.0	945.3	616.4	440.3	388.5	370.4	357.4	352.2	352.2
80°	3320.3	2385.3	779.6	624.2	419.6	334.1	308.2	295.3	277.1	264.2	271.9
82.5°	1250.9	1033.4	445.5	375.5	266.8	222.7	215.0	204.6	196.8	178.7	178.7
85°	608.6	502.4	284.9	199.4	147.6	116.5	111.4	106.2	101.0	88.1	90.6
87.5°	209.8	222.7	124.3	72.5	44.0	28.5	23.3	12.9	12.9	12.9	12.9
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)