

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: P652114

Luminaire Tested: **GALN-SA9A-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652114  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-840-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29496.4 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

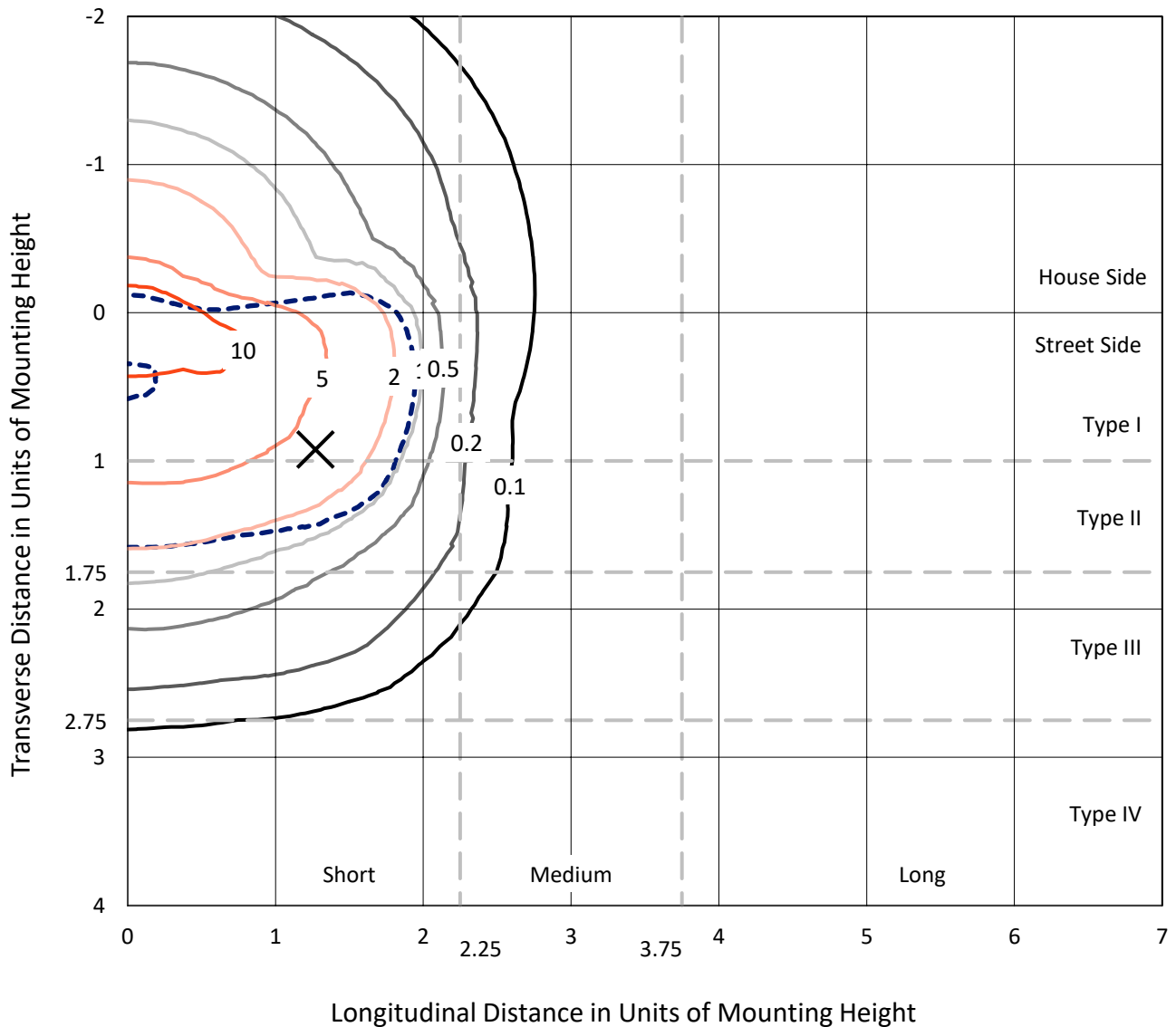
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652114  
 CATALOG NUMBER: GALN-SA9A-840-U-SL3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

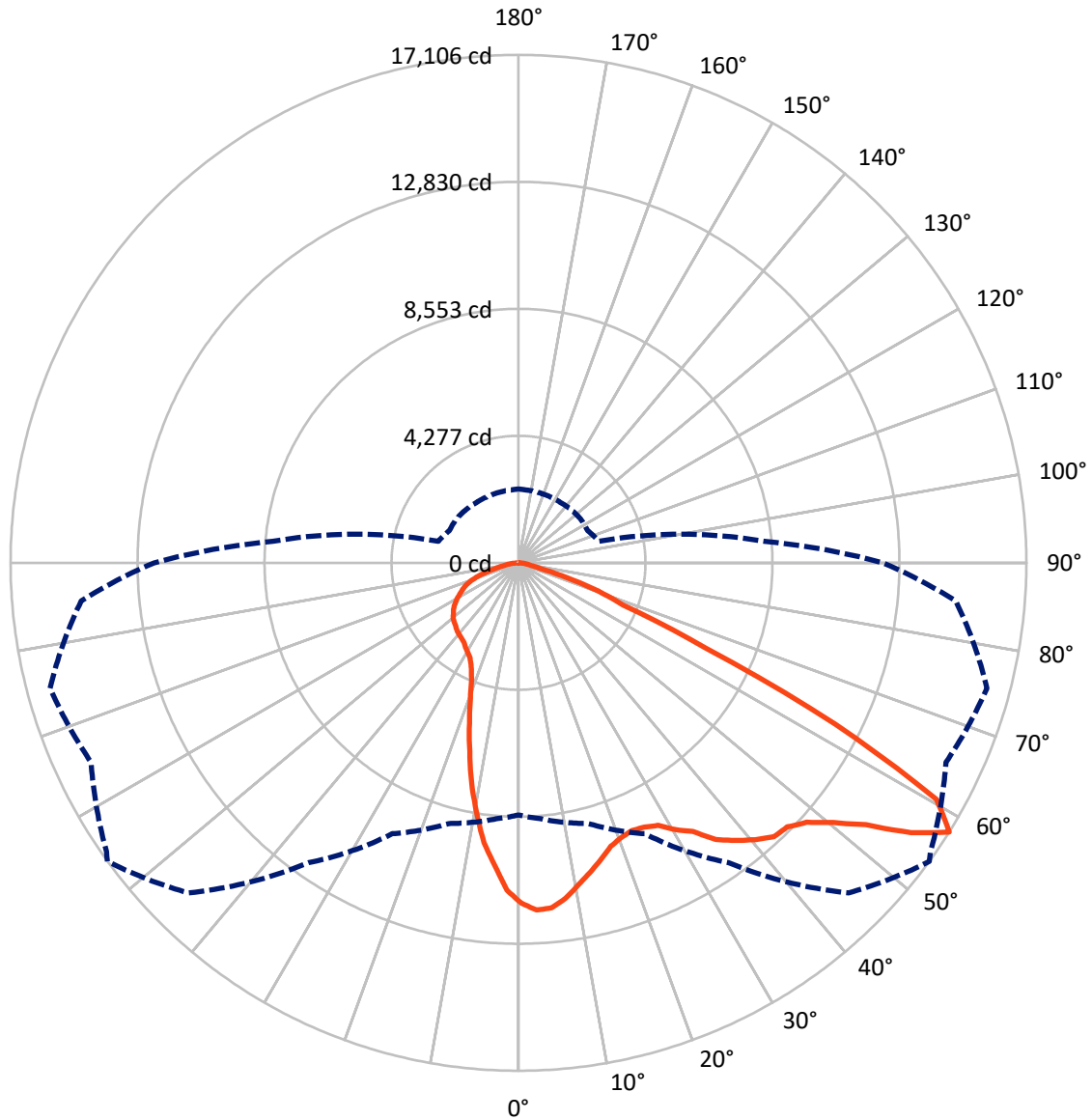
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P652114  
CATALOG NUMBER: GALN-SA9A-840-U-SL3-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P652114  
 CATALOG NUMBER: GALN-SA9A-840-U-SL3-GRSWH

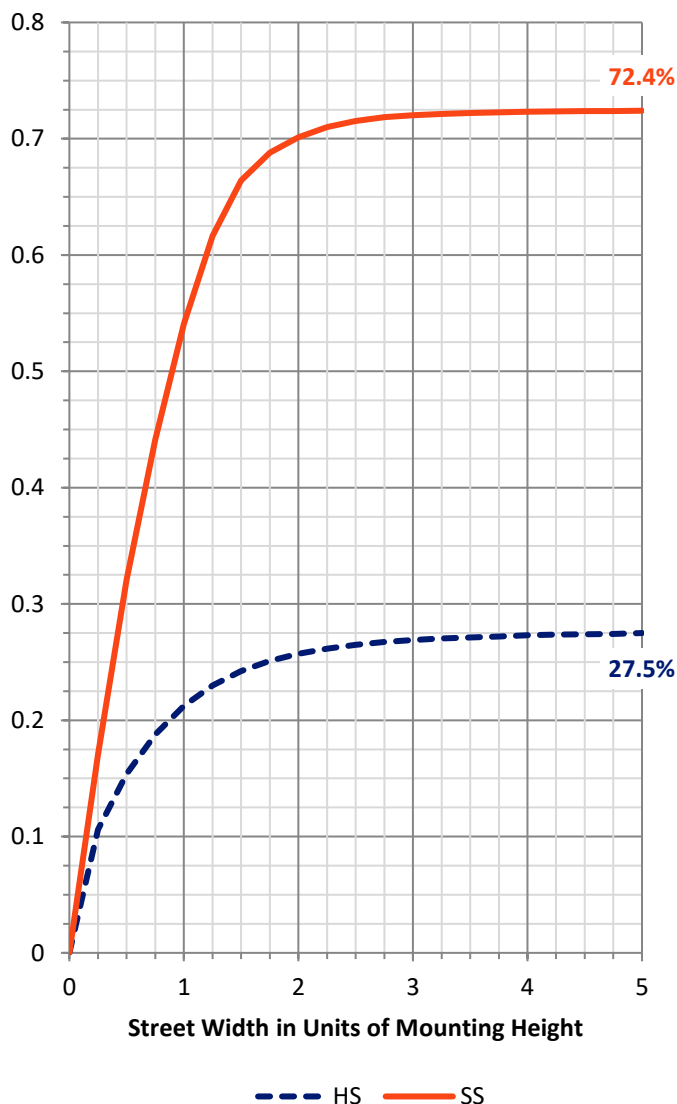
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8160.3	0.0	8160.3
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	21336.1	0.0	21336.1
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	29496.4	0.0	29496.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	988.7	3.4
10°-20°	2289.3	7.8
20°-30°	3216.5	10.9
30°-40°	4496.7	15.2
40°-50°	6087.6	20.6
50°-60°	7415.0	25.1
60°-70°	3862.1	13.1
70°-80°	989.6	3.4
80°-90°	151.0	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°	29496.4	100.0
0°-180°	29496.4	100.0

**Coefficient of Utilization**

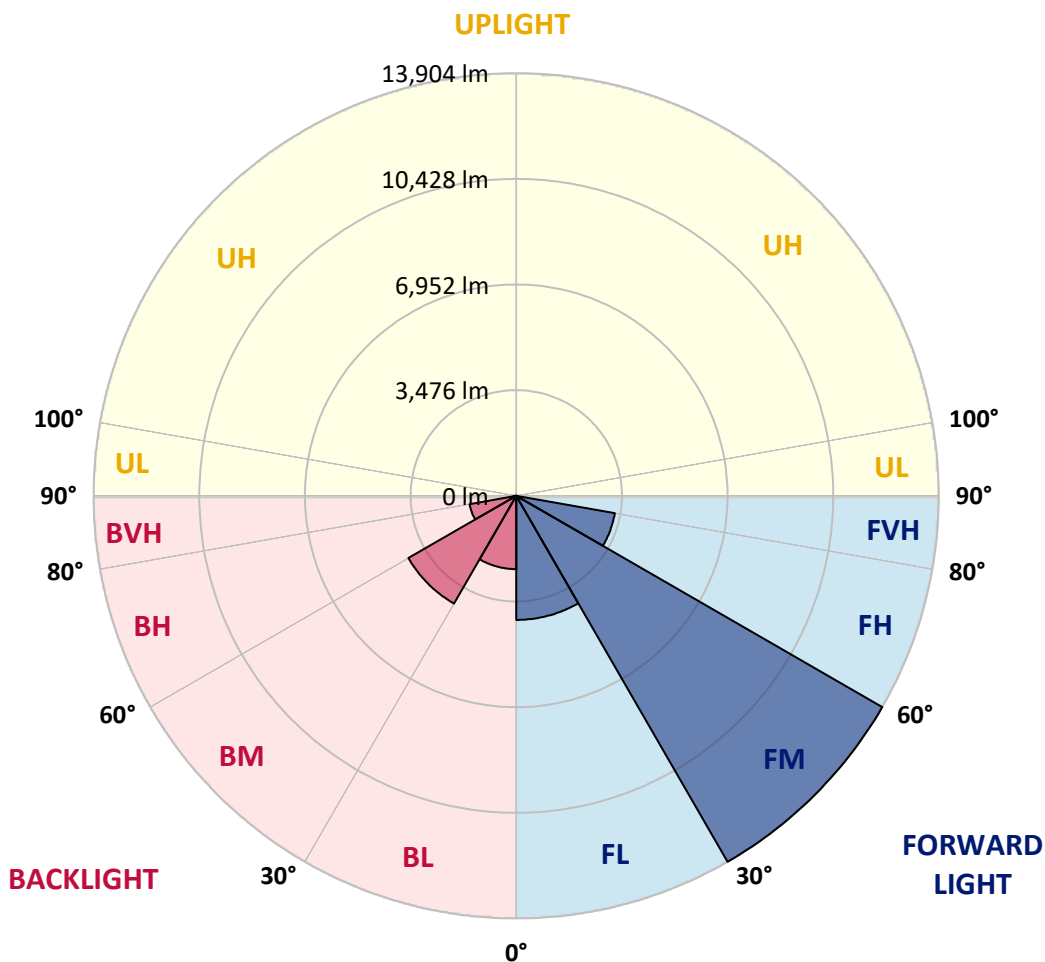


REPORT NUMBER: P652114  
 CATALOG NUMBER: GALN-SA9A-840-U-SL3-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4082.7	13.8			
FM (30°-60°)	13903.7	47.1			
FH (60°-80°)	3292.6	11.2			G2/5000
FVH (80°-90°)	57.0	0.2			G1/100
BL (0°-30°)	2411.8	8.2	B3/2500		
BM (30°-60°)	4095.6	13.9	B3/5000		
BH (60°-80°)	1559.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	93.9	0.3			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 Short





REPORT NUMBER: P652114

CATALOG NUMBER: GALN-SA9A-840-U-SL3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11464.9	11464.9	11464.9	11464.9	11464.9	11464.9	11464.9	11464.9	11464.9	11464.9	11464.9
2.5°	11791.0	11745.5	11753.1	11813.7	11737.9	11707.6	11707.6	11559.7	11571.1	11468.7	11442.1
5°	11518.0	11411.9	11483.9	11574.9	11590.0	11620.3	11669.6	11631.7	11525.6	11415.6	11237.4
7.5°	10805.3	10900.0	10926.5	10991.0	11127.5	11252.6	11408.1	11301.9	11298.1	11188.2	11082.0
10°	10179.6	10122.8	10266.8	10361.6	10589.1	10797.6	11036.5	11025.1	11082.0	10956.9	10774.9
12.5°	9557.9	9512.4	9580.7	9796.7	10115.2	10418.5	10702.8	10596.7	10900.0	10877.2	10486.8
15°	8898.2	8932.3	9030.9	9231.8	9648.9	10012.9	10373.0	10376.8	10646.0	10737.0	10213.8
17.5°	8435.7	8397.7	8522.9	8822.3	9193.9	9630.0	10039.4	10122.8	10536.0	10589.1	10130.3
20°	8090.7	8143.7	8306.7	8458.4	8886.8	9413.8	9876.4	9906.6	10513.3	10657.3	9997.6
22.5°	8007.2	7976.9	8030.0	8276.4	8629.0	9201.5	9789.2	9902.9	10509.5	10634.6	9747.4
25°	7920.0	8018.6	8014.8	8261.2	8519.1	9030.9	9861.2	9986.3	10710.5	10752.2	9781.6
27.5°	8117.2	8105.8	8211.9	8231.0	8549.4	9076.4	10012.9	10107.6	11044.1	11010.0	9808.1
30°	8314.3	8257.4	8321.9	8545.6	8693.5	9338.0	10429.9	10422.3	11476.3	11453.5	9891.5
32.5°	8557.0	8530.4	8572.1	8769.3	9019.6	9686.8	10782.5	11006.2	11916.0	12060.1	10179.6
35°	8602.5	8712.4	8811.0	9076.4	9432.7	10251.7	11445.9	11631.7	12424.1	12875.3	10729.4
37.5°	8890.6	8932.3	9163.6	9633.7	9959.8	11006.2	11866.8	11984.3	12886.6	13398.5	11309.4
40°	9197.7	9247.0	9595.8	10088.6	10536.0	11499.0	12261.1	12299.0	13034.5	13800.4	11688.6
42.5°	9614.7	9660.2	10005.3	10623.3	11222.3	11919.8	12609.9	12651.6	13023.1	14262.9	12291.4
45°	10046.9	10156.9	10562.5	11263.9	11802.3	12412.7	12689.5	12860.2	13129.3	14676.1	12780.5
47.5°	10653.5	10756.0	11089.6	11775.8	12405.2	12844.9	13057.3	13224.1	13383.3	15036.3	13095.2
50°	11298.1	11317.1	11722.7	12344.5	12807.0	13334.1	13743.5	13800.4	13717.0	15453.4	13629.8
52.5°	11772.0	11832.7	12147.3	12753.9	13444.0	14092.3	14653.4	14714.1	14551.1	15608.8	13811.7
55°	10987.2	10953.1	11464.9	12272.5	13872.4	15222.1	16037.2	16082.7	15157.7	16090.3	14407.0
57.5°	8492.5	8655.6	9091.5	10065.9	12325.5	15722.6	17106.4	16943.4	15885.6	16333.0	14786.1
60°	6172.3	6134.3	6426.2	7078.4	9288.7	13550.1	16173.7	16340.5	15290.3	14721.6	12192.8
62.5°	5027.2	4974.2	4997.0	5019.7	5994.1	8993.0	11973.0	11969.1	11775.8	10581.5	8223.4
65°	4018.8	4143.9	4155.3	4325.9	4451.0	5372.3	6938.1	7309.6	6365.6	5220.6	3787.5
67.5°	3029.3	2983.8	3135.4	3742.0	3977.1	3878.5	3787.5	3829.2	2722.1	1963.9	1850.1
70°	1785.7	1766.8	1948.8	2608.4	3275.7	3082.3	2854.9	2858.6	1869.1	1372.4	1527.9
72.5°	978.2	974.4	1012.3	1323.1	1861.6	1933.5	1713.7	1766.8	1114.7	1110.9	1194.2
75°	546.0	534.5	523.2	583.8	671.0	709.0	724.1	731.8	765.8	856.8	891.0
77.5°	200.9	193.3	193.3	223.7	284.3	356.4	451.2	458.8	542.2	621.8	655.9
80°	68.2	75.9	102.3	140.3	189.6	254.0	307.1	314.7	382.9	436.0	447.4
82.5°	41.7	45.5	68.2	98.6	136.5	178.2	227.5	231.3	284.3	318.5	333.6
85°	18.9	22.7	37.9	60.6	87.2	117.6	121.4	121.4	117.6	121.4	113.7
87.5°	0.0	0.0	7.6	7.6	7.6	11.4	15.1	11.4	18.9	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652114

CATALOG NUMBER: GALN-SA9A-840-U-SL3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11464.9	11464.9	11464.9	11464.9	11464.9	11464.9	11464.9	11464.9	11464.9	11464.9	11464.9
2.5°	11362.6	11320.9	11191.9	11078.2	11044.1	10892.5	10668.8	10695.2	10532.3	10608.0	10528.5
5°	11207.1	11066.8	10737.0	10596.7	10228.9	10062.1	9948.4	9664.0	9531.3	9504.8	9391.0
7.5°	10809.0	10721.8	10308.6	9929.4	9539.0	9205.2	8776.8	8484.9	8276.4	8219.5	8052.7
10°	10494.3	10301.0	9728.5	9152.2	8594.9	8014.8	7457.5	7021.5	6809.2	6562.7	6479.3
12.5°	10183.4	9891.5	9118.1	8378.8	7658.4	6926.7	6251.8	5721.1	5258.5	5148.6	5110.7
15°	9990.1	9482.0	8572.1	7681.2	6657.5	5702.1	5027.2	4678.5	4394.1	4276.6	4360.0
17.5°	9736.1	9144.6	8049.0	6862.2	5736.2	4856.7	4291.8	4075.7	3973.3	3984.7	3950.5
20°	9417.6	8826.1	7362.7	6119.2	4913.5	4212.1	3889.9	3810.2	3825.5	3851.9	3840.6
22.5°	9190.1	8439.4	6866.1	5360.9	4246.3	3855.7	3723.0	3666.2	3715.5	3738.2	3719.2
25°	9015.7	8109.6	6263.3	4689.8	3859.5	3654.8	3594.2	3590.4	3666.2	3696.5	3677.6
27.5°	8856.5	7802.5	5664.2	4178.0	3601.8	3499.4	3480.4	3525.9	3575.2	3605.5	3632.1
30°	8761.7	7567.5	5103.1	3749.6	3472.8	3423.5	3389.4	3431.1	3457.7	3488.0	3472.8
32.5°	8852.7	7400.6	4560.9	3507.0	3366.7	3317.4	3362.9	3336.3	3381.8	3408.4	3366.7
35°	9137.0	7252.8	4174.2	3378.0	3245.3	3264.3	3271.9	3260.6	3279.5	3256.8	3306.1
37.5°	9417.6	7199.7	3817.8	3268.1	3188.5	3188.5	3180.9	3158.1	3196.1	3188.5	3211.3
40°	9774.0	7233.8	3514.5	3150.6	3135.4	3127.8	3097.5	3093.7	3078.6	3082.3	3089.9
42.5°	10084.9	7309.6	3340.1	3074.8	3086.1	3101.3	3044.4	2998.9	3017.8	2980.0	2980.0
45°	10414.7	7377.8	3184.7	3021.7	3010.3	3006.5	2961.0	2934.5	2919.3	2923.1	2957.2
47.5°	10934.1	7476.5	3067.1	2949.6	2957.2	2900.4	2889.0	2854.9	2870.0	2892.8	2896.6
50°	11301.9	7685.0	2976.2	2866.2	2892.8	2854.9	2786.6	2771.4	2771.4	2809.4	2801.8
52.5°	11559.7	7976.9	2889.0	2775.2	2786.6	2756.3	2733.5	2699.4	2676.7	2729.7	2756.3
55°	12348.3	8462.2	2866.2	2699.4	2695.7	2665.3	2623.6	2589.4	2578.1	2585.7	2638.7
57.5°	12272.5	8310.5	2794.2	2566.7	2559.2	2517.4	2475.7	2464.4	2460.6	2468.2	2483.3
60°	9963.6	6138.1	2494.7	2415.1	2403.7	2396.1	2354.4	2308.9	2286.2	2308.9	2290.0
62.5°	6593.1	4109.8	2199.0	2233.1	2240.7	2221.7	2153.5	2108.0	2115.5	2142.1	2100.4
65°	3237.8	2415.1	1994.3	2085.3	2092.8	2039.8	1975.3	1922.2	1895.6	1918.4	1899.5
67.5°	1850.1	1846.3	1827.4	1922.2	1918.4	1865.3	1763.0	1717.5	1672.0	1679.6	1668.2
70°	1569.6	1599.9	1637.8	1694.7	1690.9	1630.3	1508.9	1474.8	1410.4	1402.8	1383.9
72.5°	1235.9	1289.1	1372.4	1414.1	1380.0	1304.2	1224.6	1167.7	1110.9	1076.7	1088.1
75°	917.5	993.3	1038.8	1065.4	1012.3	970.6	906.1	837.9	769.6	739.3	728.0
77.5°	667.2	690.0	731.8	750.7	716.5	674.8	637.0	568.7	504.3	462.6	451.2
80°	466.3	481.5	511.8	511.8	511.8	492.9	443.5	375.3	333.6	295.7	288.1
82.5°	326.1	341.2	371.6	356.4	352.6	329.8	299.5	246.4	200.9	174.4	166.9
85°	113.7	125.1	151.6	182.0	193.3	189.6	170.6	136.5	106.1	87.2	79.6
87.5°	26.6	26.6	30.4	26.6	26.6	30.4	26.6	26.6	26.6	18.9	15.1
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)