

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: P534274

Luminaire Tested: **GALN-SA9D-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-730-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 56125 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

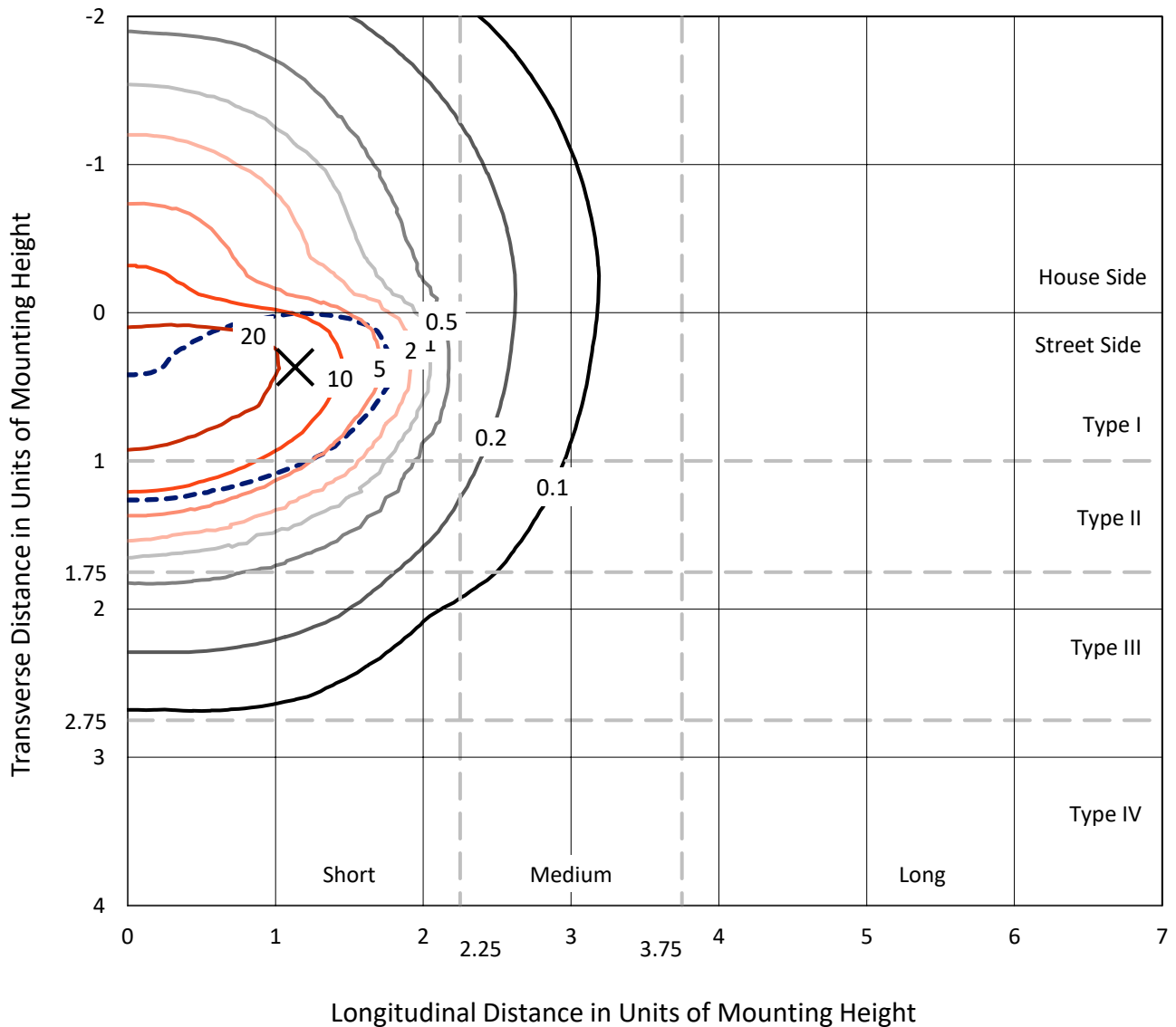
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P534274  
 CATALOG NUMBER: GALN-SA9D-730-U-T2R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

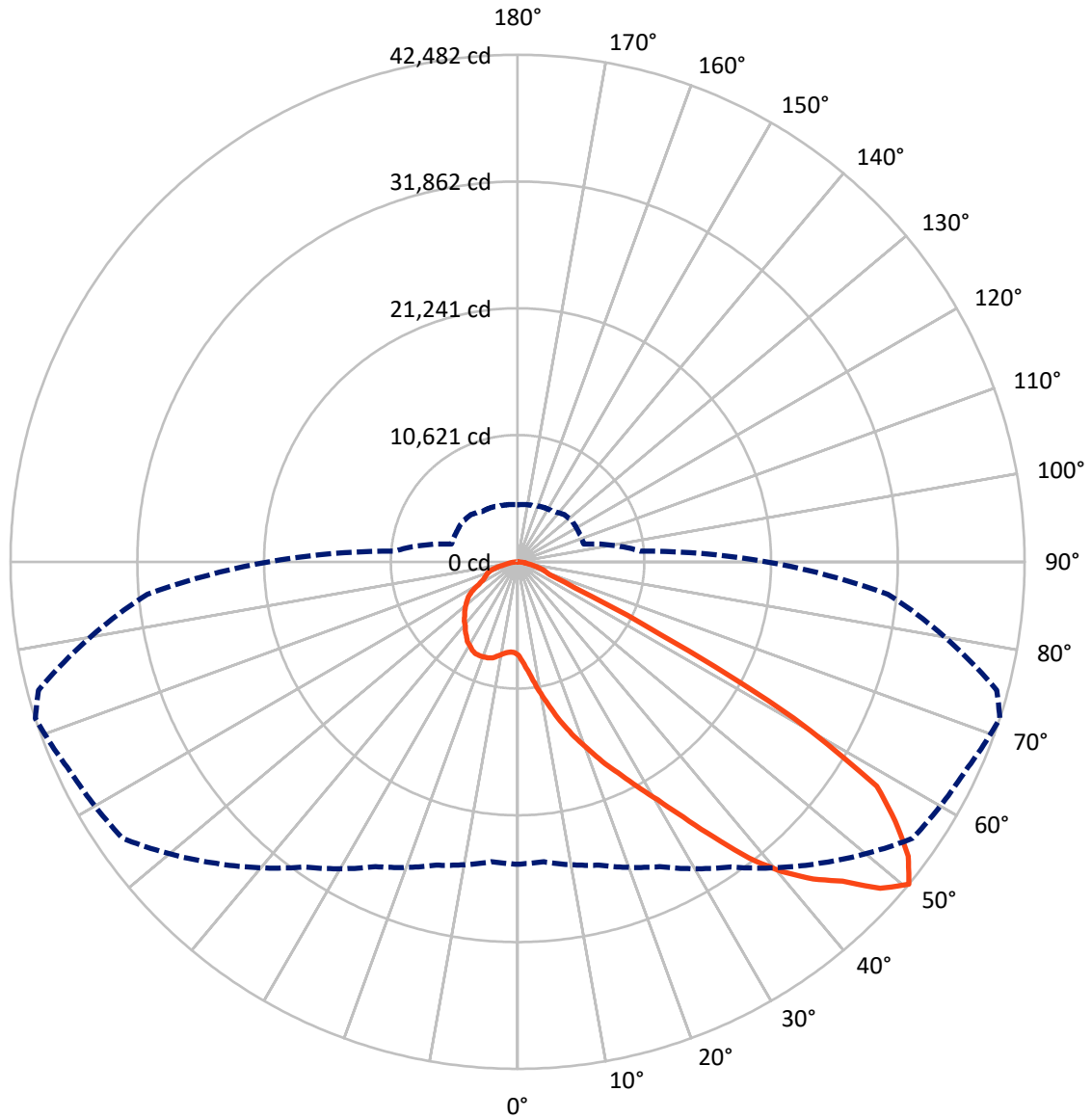
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P534274  
CATALOG NUMBER: GALN-SA9D-730-U-T2R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P534274  
 CATALOG NUMBER: GALN-SA9D-730-U-T2R-GRSWH

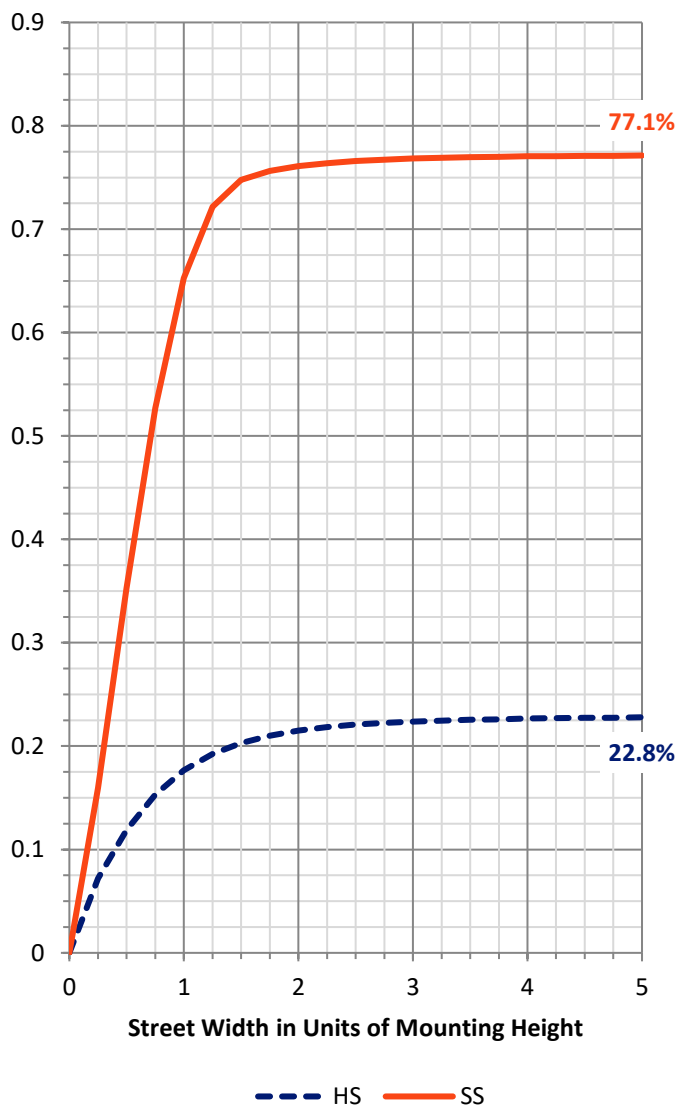
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12858.6	0.0	12858.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	43266.4	0.0	43266.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	56125.0	0.0	56125.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	919.0	1.6
10°-20°	3435.6	6.1
20°-30°	6661.4	11.9
30°-40°	11035.6	19.7
40°-50°	15441.2	27.5
50°-60°	13026.6	23.2
60°-70°	3970.5	7.1
70°-80°	1393.0	2.5
80°-90°	242.2	0.4
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°	56125.0	100.0
0°-180°	56125.0	100.0

**Coefficient of Utilization**

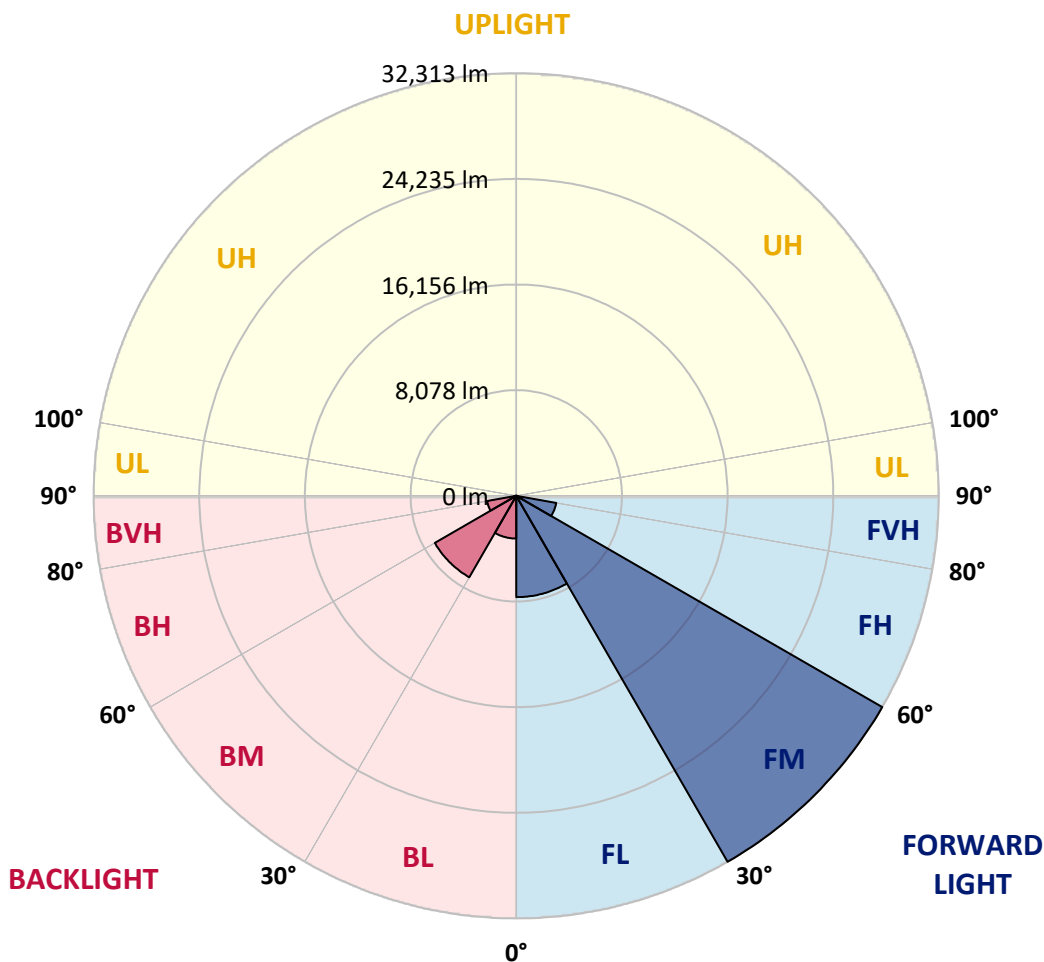


REPORT NUMBER: P534274  
 CATALOG NUMBER: GALN-SA9D-730-U-T2R-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7747.3	13.8			
FM (30°-60°)	32312.7	57.6			
FH (60°-80°)	3098.0	5.5			G2/5000
FVH (80°-90°)	108.5	0.2			G2/225
BL (0°-30°)	3268.7	5.8	B4/5000		
BM (30°-60°)	7190.7	12.8	B4/8500		
BH (60°-80°)	2265.4	4.0	B3/2500		G3/2500
BVH (80°-90°)	133.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**  
 Type II Short





REPORT NUMBER: P534274

CATALOG NUMBER: GALN-SA9D-730-U-T2R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1
2.5°	10049.4	9986.9	9799.3	9736.8	9514.6	9111.8	8972.9	8563.1	8389.5	8229.8	8042.3
5°	12709.3	12417.6	12396.8	12042.6	11528.6	11230.0	10341.0	9743.8	9195.1	8917.3	8403.4
7.5°	14403.8	14410.8	14410.8	14119.1	13709.3	12952.3	12153.7	11077.2	10250.8	9841.0	8965.9
10°	16015.1	15876.2	15799.8	15772.0	15494.2	14758.0	13903.8	12570.4	11438.3	10959.1	9389.6
12.5°	17154.0	17036.0	17209.6	17119.3	16917.9	16438.7	15633.1	14112.2	12695.4	12049.5	10070.2
15°	17695.8	17779.1	17918.0	18168.0	18077.7	17897.2	17008.2	15695.6	14049.7	13320.4	10674.4
17.5°	18529.2	18300.0	18466.6	18779.2	19029.2	18945.8	18438.9	16841.5	15390.0	14494.1	11487.0
20°	19112.5	18980.6	19063.9	19425.0	19612.6	20084.8	19820.9	18341.6	16674.8	15730.3	12445.4
22.5°	20779.3	20584.9	20314.0	20369.6	20439.0	20772.4	20834.9	19987.6	18168.0	17167.9	13355.2
25°	22835.0	22654.5	22335.0	22008.6	21807.2	21744.7	21960.0	21279.4	19598.7	18563.9	14334.4
27.5°	25099.1	24793.5	24592.1	23918.4	23376.7	23293.4	23189.2	22821.1	21293.2	20175.1	15438.6
30°	27300.6	27057.6	26786.7	25710.2	25147.7	25057.4	24543.5	24647.7	23133.7	21890.5	16688.7
32.5°	28967.4	28988.3	28370.2	27557.6	27029.8	26550.6	26363.1	26661.7	25494.9	24494.9	18084.7
35°	30314.7	30377.2	29786.9	29050.8	28481.3	28814.6	28731.3	28870.2	28314.6	27092.3	19709.8
37.5°	31627.3	31314.8	30682.8	30328.6	30030.0	30578.7	31287.0	31405.1	31509.3	30071.7	21598.8
40°	31842.6	31870.4	31502.3	31752.4	31377.3	32203.8	33849.7	33696.9	34120.6	32863.5	23647.6
42.5°	31537.1	31599.6	31745.4	32099.6	33002.4	33995.6	36440.2	35815.2	36329.1	35210.9	25640.8
45°	31037.0	30780.1	30960.6	32307.9	33870.6	36079.1	38808.4	38322.3	38155.6	37218.0	28016.0
47.5°	28648.0	28911.9	29474.4	31134.3	33481.6	36440.2	40489.1	40378.0	40878.0	40218.3	30175.8
50°	25335.2	25231.0	26314.4	28182.6	31210.6	35731.8	40398.8	41405.8	42482.3	41565.6	31141.2
52.5°	18973.6	19529.2	20459.8	22779.5	27099.2	31870.4	38426.5	40107.1	40982.2	40787.7	30363.4
55°	11993.9	12160.6	12723.2	15480.3	19369.5	25578.3	32939.9	36836.1	38398.7	39127.9	29648.0
57.5°	5826.8	5514.3	6201.8	8417.3	11188.3	17202.7	25404.7	32085.7	35481.8	36801.3	28092.4
60°	3041.9	3160.0	3430.8	4222.5	5785.2	8931.2	15834.5	21383.5	26571.4	28599.3	21293.2
62.5°	2521.0	2562.7	2743.3	3139.1	3847.5	5139.3	8083.9	10424.4	13549.6	15376.1	12112.0
65°	2139.0	2159.9	2354.3	2618.2	3069.7	3618.3	4160.0	4354.5	5271.2	5410.1	4305.9
67.5°	1784.9	1805.7	2014.0	2264.1	2555.7	2701.6	2840.5	2826.6	2930.8	2889.1	2882.2
70°	1375.1	1395.9	1611.2	1875.1	2021.0	1937.6	2368.2	2465.5	2507.1	2541.9	2597.4
72.5°	993.1	1034.8	1201.5	1389.0	1312.6	1507.1	1951.5	2097.4	2152.9	2173.8	2243.2
75°	722.3	736.2	777.8	722.3	833.4	1048.7	1375.1	1555.7	1625.1	1646.0	1750.1
77.5°	319.5	326.4	333.4	416.7	534.8	652.8	819.5	965.3	1062.6	1090.4	1118.1
80°	166.7	173.6	215.3	284.7	382.0	479.2	597.3	680.6	743.1	750.1	777.8
82.5°	104.2	111.1	152.8	201.4	270.9	354.2	437.5	507.0	555.6	562.5	569.5
85°	48.6	62.5	90.3	125.0	180.6	229.2	236.1	201.4	215.3	222.2	208.3
87.5°	13.9	20.8	27.8	20.8	27.8	27.8	34.7	41.7	41.7	41.7	48.6
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: P534274  
 CATALOG NUMBER: GALN-SA9D-730-U-T2R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1
2.5°	7938.1	7875.6	7632.5	7542.2	7306.1	7347.8	7222.8	7215.8	7188.0	7181.1	7174.1
5°	8132.5	7938.1	7646.4	7424.2	7292.2	7278.3	7188.0	7188.0	7215.8	7236.6	7188.0
7.5°	8452.0	8229.8	7736.7	7528.3	7410.3	7389.4	7326.9	7278.3	7340.8	7320.0	7264.4
10°	8820.1	8431.2	7910.3	7729.7	7535.3	7486.7	7486.7	7507.5	7403.3	7438.1	7382.5
12.5°	9229.9	8709.0	8132.5	7924.2	7695.0	7667.2	7653.3	7500.6	7556.1	7528.3	7389.4
15°	9750.7	9028.4	8417.3	8063.1	7868.6	7743.6	7563.1	7535.3	7500.6	7431.1	7368.6
17.5°	10313.3	9375.7	8549.2	8104.8	7813.1	7722.8	7583.9	7438.1	7333.9	7347.8	7299.2
20°	10792.5	9695.2	8597.9	8146.4	7771.4	7597.8	7382.5	7292.2	7181.1	7174.1	7167.2
22.5°	11362.0	10125.7	8667.3	8035.3	7646.4	7465.8	7320.0	7160.3	7083.9	6986.6	7035.2
25°	12042.6	10292.4	8681.2	7972.8	7556.1	7236.6	7160.3	6986.6	6958.8	6819.9	6847.7
27.5°	12535.7	10382.7	8570.1	7778.4	7347.8	7104.7	6965.8	6840.8	6792.2	6688.0	6660.2
30°	13195.4	10521.6	8334.0	7535.3	7139.4	6868.6	6785.2	6757.4	6618.5	6507.4	6493.5
32.5°	13945.5	10611.9	8181.2	7285.3	6924.1	6715.8	6757.4	6625.5	6451.9	6354.6	6326.9
35°	14542.7	10646.6	7799.2	7000.5	6778.3	6646.3	6597.7	6569.9	6319.9	6229.6	6160.2
37.5°	15452.5	10570.2	7479.7	6799.1	6618.5	6569.9	6528.3	6340.7	6056.0	5924.0	5826.8
40°	16515.1	10549.4	7070.0	6514.4	6465.8	6521.3	6396.3	6104.6	5708.8	5562.9	5493.5
42.5°	17536.0	10695.2	6813.0	6361.6	6299.1	6319.9	6146.3	5708.8	5514.3	5431.0	5319.8
45°	19244.5	11000.8	6389.4	6125.5	6097.7	6083.8	5875.4	5417.1	5305.9	5201.8	5180.9
47.5°	20786.3	10799.4	6118.5	5882.4	5910.2	5833.8	5389.3	5243.4	5118.4	5014.3	4979.5
50°	20876.5	10320.2	5736.5	5694.9	5701.8	5569.9	5146.2	5049.0	4889.3	4819.8	4771.2
52.5°	20404.3	9535.4	5382.3	5396.2	5417.1	5201.8	4847.6	4778.1	4646.2	4548.9	4521.2
55°	19077.8	8313.1	5035.1	5090.7	5146.2	4736.5	4625.3	4451.7	4347.5	4208.6	4215.6
57.5°	16806.8	6694.9	4548.9	4639.2	4757.3	4305.9	4222.5	4007.2	3854.5	3743.3	3729.4
60°	11264.7	4764.2	3819.7	3854.5	4118.4	3937.8	3930.8	3715.6	3507.2	3410.0	3354.4
62.5°	6646.3	3639.2	3298.9	3264.1	3257.2	3361.4	3535.0	3458.6	3187.7	3000.2	3055.8
65°	3479.4	3146.1	3069.7	2951.6	2882.2	2854.4	2986.3	3021.1	2840.5	2639.1	2625.2
67.5°	2923.8	2923.8	2861.3	2819.7	2722.4	2604.4	2521.0	2409.9	2382.1	2326.6	2257.1
70°	2659.9	2729.4	2708.5	2611.3	2528.0	2396.0	2180.7	2000.1	1826.5	1764.0	1805.7
72.5°	2319.6	2389.1	2389.1	2340.5	2229.3	2027.9	1819.6	1611.2	1465.4	1354.3	1340.4
75°	1784.9	1819.6	1902.9	1847.4	1701.5	1576.5	1361.2	1145.9	1007.0	902.8	882.0
77.5°	1139.0	1194.5	1194.5	1187.6	1083.4	965.3	826.5	673.7	569.5	493.1	472.3
80°	757.0	791.7	819.5	791.7	722.3	632.0	527.8	423.6	347.2	284.7	270.9
82.5°	555.6	597.3	618.1	590.3	520.9	451.4	375.0	298.6	222.2	173.6	159.7
85°	215.3	222.2	250.0	298.6	291.7	284.7	229.2	166.7	125.0	90.3	83.3
87.5°	55.6	48.6	55.6	55.6	48.6	41.7	41.7	41.7	41.7	20.8	27.8
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)