

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: P454936

Luminaire Tested: **GALN-SA6A-750-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-750-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21711 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

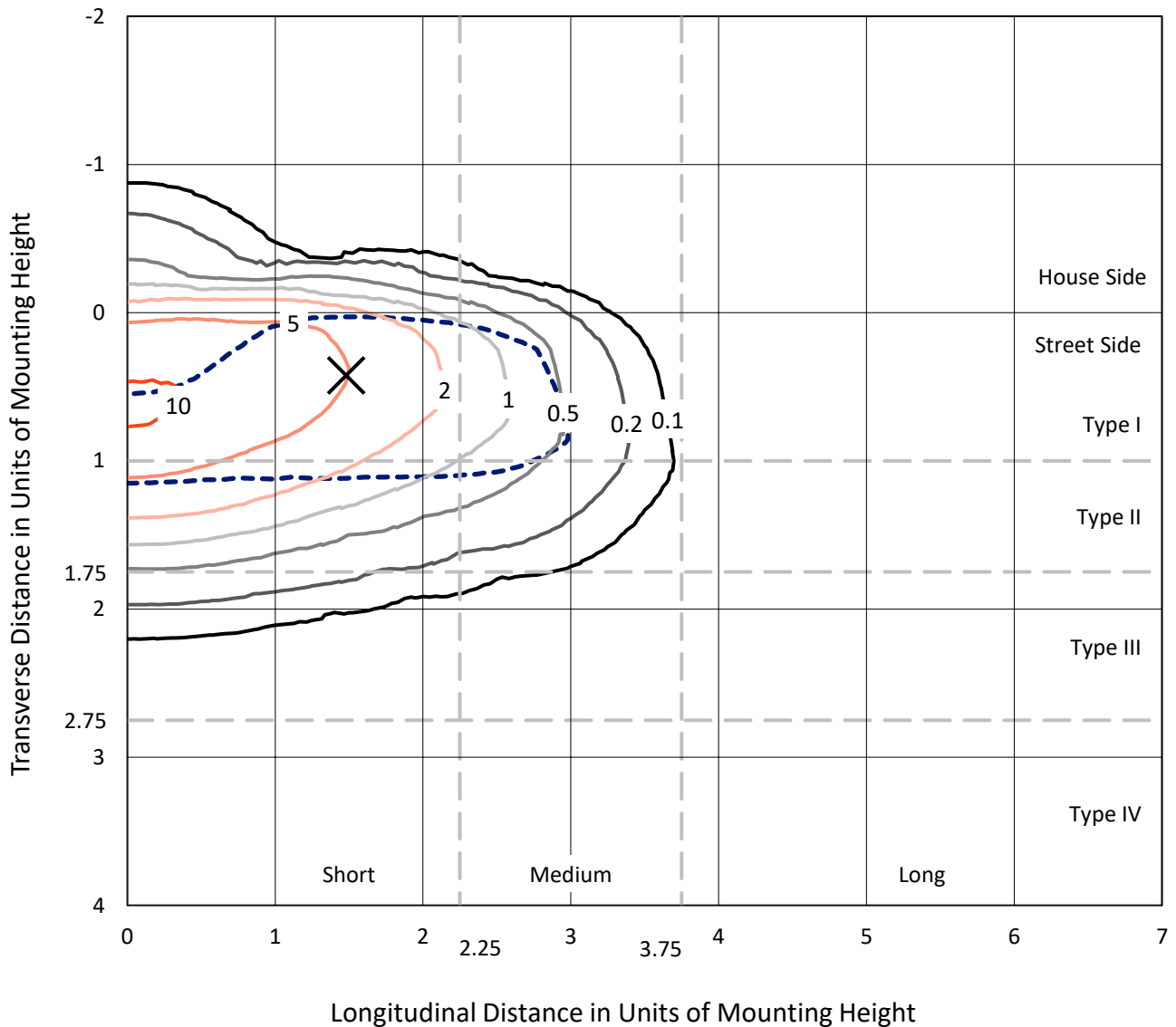
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454936  
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### Iso-Footcandle Lines of Horizontal Illumination

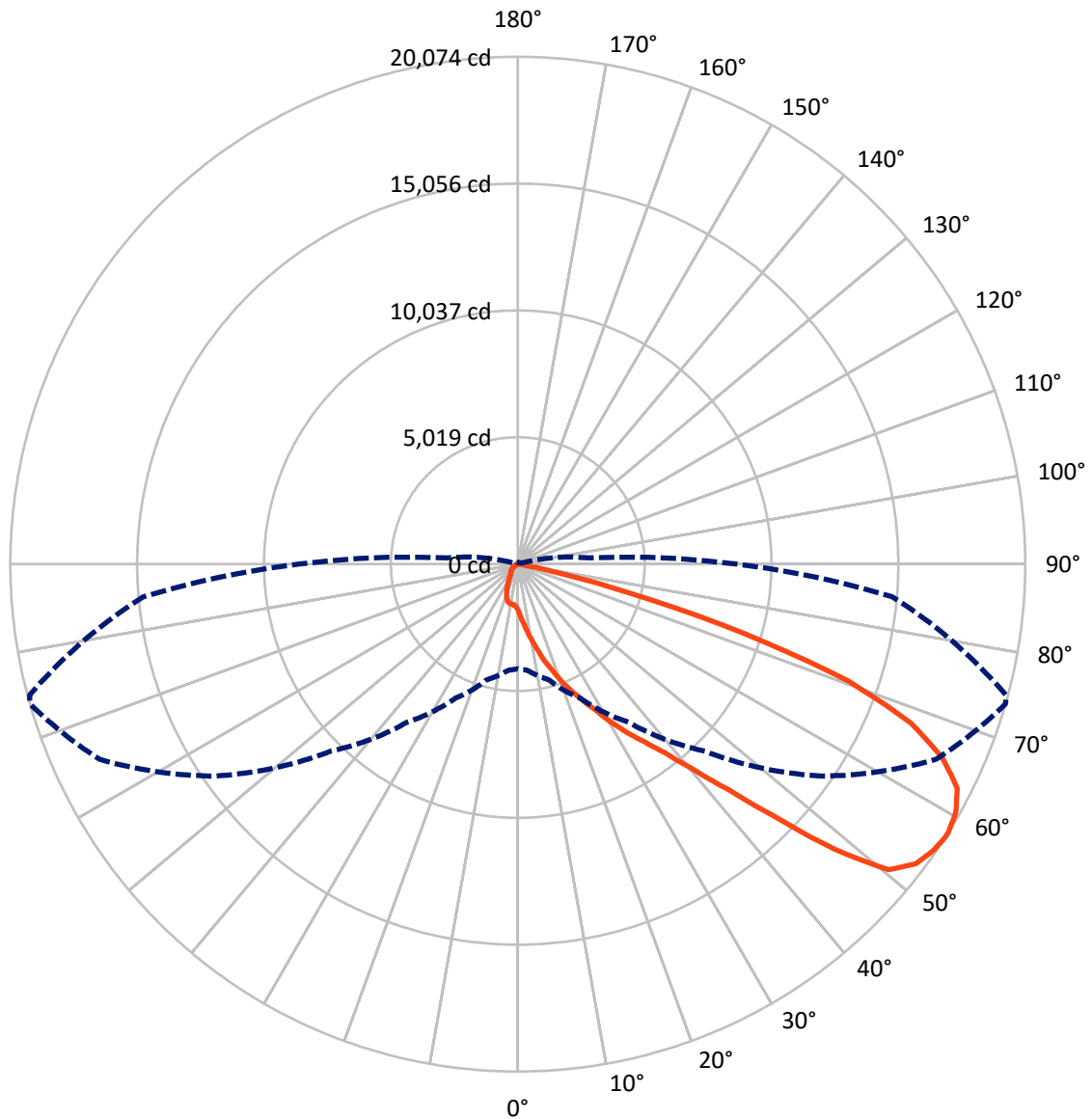
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

REPORT NUMBER: P454936  
CATALOG NUMBER: GALN-SA6A-750-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P454936

CATALOG NUMBER: GALN-SA6A-750-U-T2R-HSS

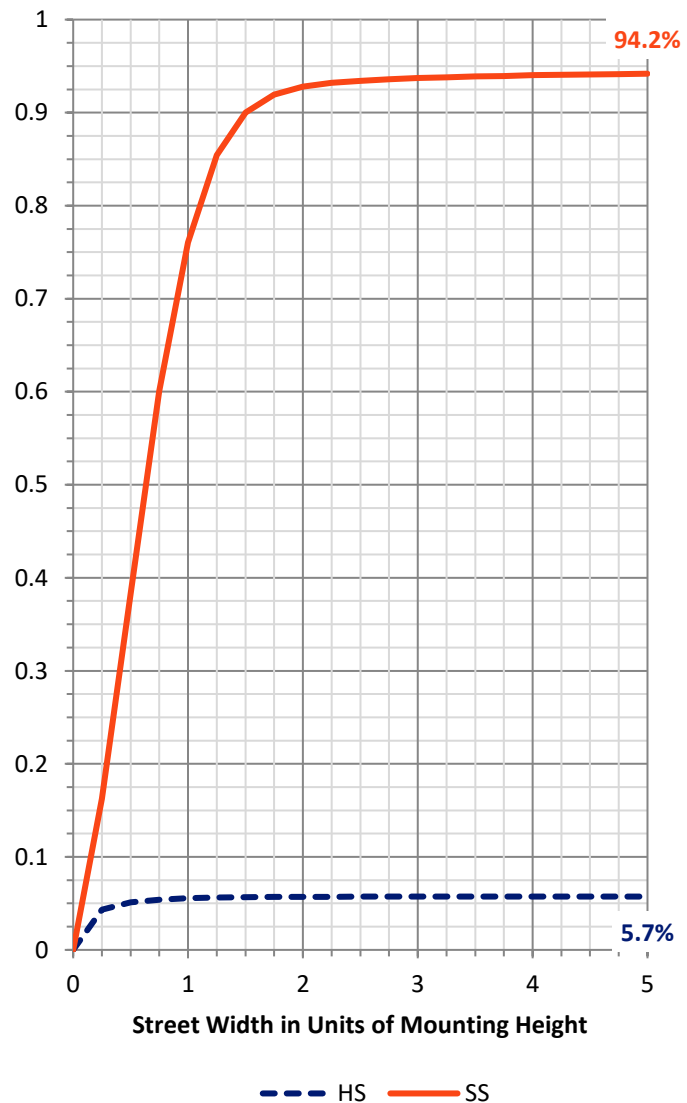
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1252.2	0.0	1252.2
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	20458.8	0.0	20458.8
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	21711.0	0.0	21711.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.5	1.0
10°-20°	865.1	4.0
20°-30°	1851.0	8.5
30°-40°	3402.1	15.7
40°-50°	5215.5	24.0
50°-60°	5517.3	25.4
60°-70°	3603.0	16.6
70°-80°	984.5	4.5
80°-90°	53.0	0.2
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°	21711.0	100.0
0°-180°	21711.0	100.0



REPORT NUMBER: P454936

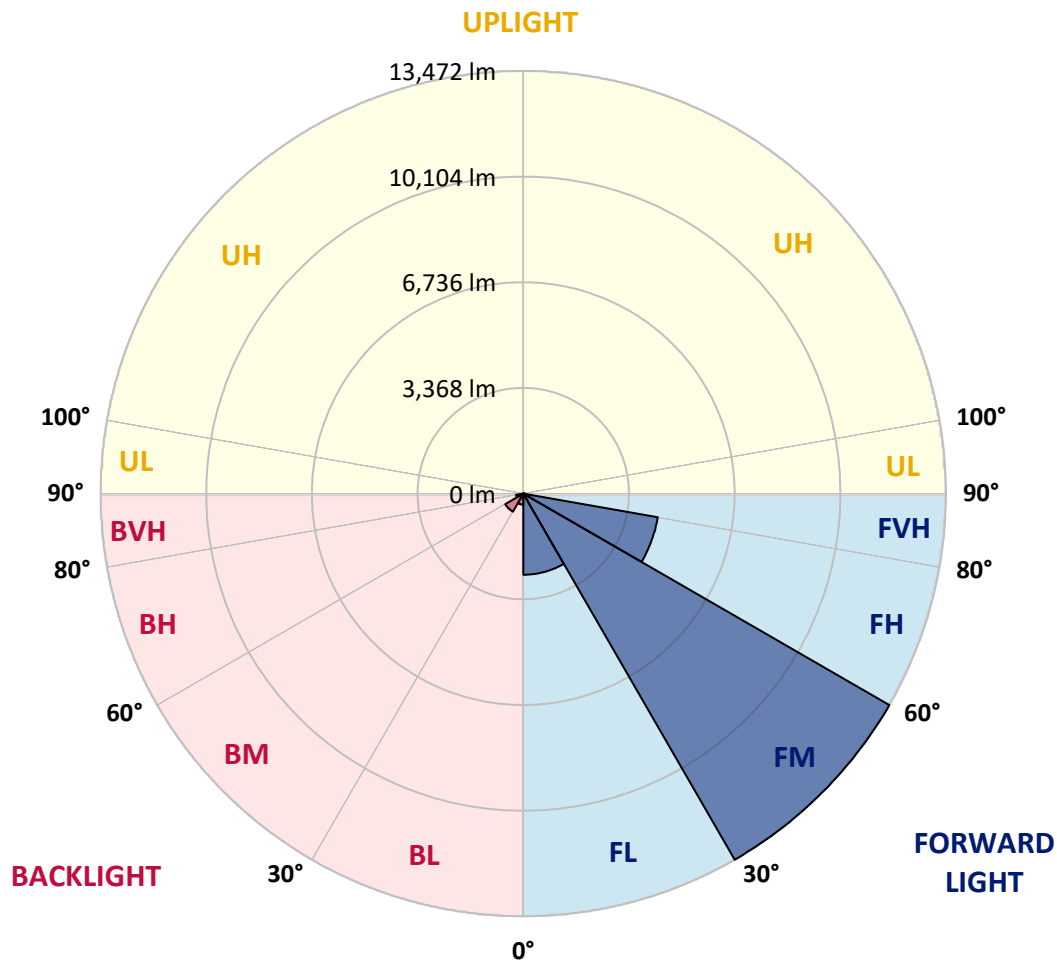
CATALOG NUMBER: GALN-SA6A-750-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2585.8	11.9			
FM (30°-60°)	13472.1	62.1			
FH (60°-80°)	4352.3	20.0			G2/5000
FVH (80°-90°)	48.6	0.2			G1/100
BL (0°-30°)	349.8	1.6	B1/500		
BM (30°-60°)	663.0	3.1	B1/1000		
BH (60°-80°)	235.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





REPORT NUMBER: P454936

CATALOG NUMBER: GALN-SA6A-750-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1818.3	1818.3	1818.3	1818.3	1818.3	1818.3	1818.3	1818.3	1818.3	1818.3	1818.3
2.5°	2660.7	2636.7	2588.7	2572.3	2501.8	2392.4	2296.4	2167.5	2065.6	2055.1	1932.2
5°	3563.1	3509.1	3486.6	3378.7	3209.3	3050.4	2777.6	2570.8	2332.4	2314.4	2067.1
7.5°	4432.5	4357.5	4335.1	4233.1	4035.3	3784.9	3431.2	3054.9	2677.2	2642.7	2248.5
10°	5062.1	5072.6	5032.1	4964.6	4804.2	4549.4	4113.2	3599.1	3060.9	3017.5	2452.3
12.5°	5513.3	5511.8	5519.3	5517.8	5432.3	5239.0	4780.3	4188.2	3483.6	3398.2	2686.2
15°	5807.1	5811.6	5834.0	5912.0	5921.0	5801.1	5418.8	4751.8	3973.8	3867.4	2939.5
17.5°	6103.9	6135.3	6171.3	6244.8	6310.7	6262.8	5992.9	5339.4	4417.5	4338.1	3210.8
20°	6594.0	6637.5	6616.5	6661.5	6696.0	6700.5	6492.1	5882.0	4955.6	4822.2	3521.1
22.5°	7378.0	7376.5	7322.5	7241.6	7174.1	7171.1	6982.3	6439.6	5444.3	5315.4	3832.9
25°	8368.8	8373.3	8268.4	8037.6	7869.7	7664.3	7447.0	6928.3	5967.5	5808.6	4161.2
27.5°	9505.1	9476.6	9317.7	8999.9	8667.1	8316.4	8003.1	7496.4	6522.1	6390.2	4537.4
30°	10525.9	10515.4	10329.5	9941.3	9503.6	9151.3	8697.1	8208.4	7240.1	7078.2	4958.6
32.5°	11476.2	11491.2	11233.4	10831.7	10408.9	10002.7	9523.0	8889.0	7944.6	7715.3	5417.3
35°	12218.2	12233.2	11966.4	11632.1	11197.4	10860.1	10403.0	9614.5	8640.1	8446.8	5945.0
37.5°	12614.0	12633.4	12479.0	12227.2	11955.9	11786.5	11360.8	10548.4	9485.6	9368.7	6568.5
40°	12688.9	12711.4	12643.9	12576.5	12561.5	12682.9	12558.5	11648.6	10657.8	10474.9	7497.9
42.5°	12464.1	12494.0	12524.0	12673.9	12979.7	13424.9	13858.1	13141.6	12167.3	11921.4	8634.1
45°	11873.5	11870.5	11988.9	12377.1	13062.1	14012.5	15216.2	15010.8	14223.9	13931.6	10239.6
47.5°	10863.1	10848.1	11104.5	11657.6	12724.9	14120.4	16323.9	17280.3	16848.6	16578.8	11964.9
50°	9323.7	9397.1	9800.4	10572.3	11886.9	13793.7	16665.7	18768.8	19002.6	18716.3	13358.9
52.5°	7520.4	7517.4	8150.0	9197.8	10645.8	13074.1	16427.4	19038.6	19702.6	19483.8	14045.5
55°	5565.7	5604.7	6262.8	7319.5	9034.4	11761.0	15649.4	18761.3	19969.5	19815.1	14498.2
57°	4140.2	4209.1	4736.8	5855.0	7631.3	10461.4	14613.6	18265.1	20074.4	19990.5	14874.4
57.5°	3864.4	3867.4	4381.5	5397.8	7220.6	9962.2	14316.8	18058.3	20071.4	20024.9	14935.9
60°	2378.9	2453.8	2809.1	3648.5	5285.4	7775.2	12327.6	16869.6	19915.5	19983.0	15198.2
62.5°	1424.0	1455.5	1686.4	2199.0	3407.2	5675.2	10088.2	15348.1	19509.3	19714.6	15180.2
65°	915.9	923.4	1028.3	1331.1	2130.1	3835.9	7773.7	13338.0	18458.5	18836.2	14586.6
67.5°	707.5	719.5	761.5	873.9	1235.2	2389.4	5498.3	11192.9	16758.6	17245.8	13147.6
70°	628.1	634.1	649.1	685.0	816.9	1349.1	3420.7	8743.6	13897.1	14035.0	10289.0
72.5°	512.7	529.1	575.6	587.6	647.6	842.4	1903.7	5868.5	9337.2	9371.6	5756.1
75°	397.2	400.2	469.2	503.7	545.6	580.1	849.9	2959.0	4485.0	4245.1	2218.5
77.5°	296.8	310.3	341.8	385.2	445.2	415.2	380.7	1115.2	1392.6	1367.1	644.6
80°	190.4	197.9	238.3	289.3	346.3	271.3	214.4	326.8	305.8	314.8	154.4
82.5°	95.9	97.4	152.9	235.3	220.4	136.4	134.9	133.4	113.9	112.4	72.0
85°	10.5	22.5	98.9	134.9	98.9	45.0	63.0	61.5	60.0	61.5	42.0
87.5°	1.5	1.5	16.5	19.5	13.5	15.0	18.0	19.5	24.0	22.5	18.0
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: P454936

CATALOG NUMBER: GALN-SA6A-750-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1818.3	1818.3	1818.3	1818.3	1818.3	1818.3	1818.3	1818.3	1818.3	1818.3	1818.3
2.5°	1872.2	1812.3	1701.3	1594.9	1515.5	1464.5	1398.6	1374.6	1340.1	1335.6	1319.1
5°	1953.2	1839.3	1645.9	1493.0	1370.1	1277.1	1196.2	1128.7	1074.8	1062.8	1068.8
7.5°	2068.6	1899.2	1629.4	1421.0	1250.2	1091.3	962.3	882.9	825.9	805.0	808.0
10°	2199.0	1978.7	1626.4	1344.6	1083.8	888.9	748.0	677.5	644.6	632.6	619.1
12.5°	2353.4	2070.1	1618.9	1226.2	900.9	709.0	608.6	566.6	535.1	526.1	526.1
15°	2527.3	2167.5	1582.9	1079.3	731.5	586.1	518.6	485.7	475.2	466.2	466.2
17.5°	2708.7	2263.5	1508.0	897.9	607.1	502.2	460.2	440.7	425.7	415.2	415.2
20°	2915.5	2357.9	1388.1	737.5	512.7	448.2	415.2	392.7	380.7	371.7	368.8
22.5°	3111.9	2434.4	1235.2	605.6	446.7	403.2	373.2	349.3	337.3	332.8	332.8
25°	3315.8	2480.8	1050.8	500.7	407.7	365.8	332.8	313.3	302.8	299.8	298.3
27.5°	3513.6	2507.8	888.9	437.7	371.7	331.3	299.8	284.8	274.3	271.3	272.8
30°	3753.5	2512.3	731.5	392.7	340.3	298.3	269.8	256.3	250.3	247.3	245.8
32.5°	3996.3	2506.3	614.6	365.8	310.3	269.8	245.8	235.3	230.8	226.3	226.3
35°	4269.1	2474.8	523.1	338.8	281.8	245.8	224.8	215.9	209.9	205.4	203.9
37.5°	4607.9	2458.3	470.7	308.8	256.3	223.3	203.9	194.9	190.4	184.4	182.9
40°	5141.5	2531.8	454.2	281.8	230.8	202.4	184.4	173.9	167.9	161.9	160.4
42.5°	5807.1	2660.7	427.2	254.8	208.4	182.9	164.9	152.9	142.4	134.9	131.9
45°	6669.0	2830.1	385.2	226.3	188.9	161.9	145.4	130.4	116.9	110.9	109.4
47.5°	7572.9	2993.5	347.8	203.9	167.9	143.9	125.9	109.4	97.4	92.9	91.4
50°	8127.5	3026.4	323.8	178.4	146.9	124.4	106.4	91.4	83.9	79.4	79.4
52.5°	8380.8	2974.0	290.8	155.9	127.4	109.4	91.4	79.4	74.9	72.0	70.5
55°	8557.7	2893.0	247.3	134.9	109.4	92.9	80.9	72.0	66.0	63.0	61.5
57°	8661.1	2783.6	214.4	118.4	94.4	80.9	72.0	64.5	58.5	52.5	52.5
57.5°	8665.6	2741.6	205.4	116.9	89.9	77.9	70.5	63.0	55.5	49.5	48.0
60°	8532.2	2453.8	164.9	98.9	72.0	66.0	58.5	49.5	39.0	33.0	31.5
62.5°	8103.5	2088.1	136.4	83.9	58.5	51.0	42.0	37.5	27.0	19.5	19.5
65°	7454.4	1693.9	116.9	67.5	48.0	37.5	28.5	27.0	16.5	9.0	7.5
67.5°	6516.1	1319.1	98.9	55.5	40.5	27.0	19.5	18.0	9.0	3.0	0.0
70°	4964.6	899.4	82.4	45.0	30.0	19.5	13.5	10.5	6.0	1.5	0.0
72.5°	2861.6	494.7	69.0	34.5	22.5	15.0	10.5	6.0	6.0	0.0	0.0
75°	1022.3	212.9	52.5	25.5	18.0	12.0	7.5	3.0	4.5	1.5	0.0
77.5°	325.3	113.9	34.5	19.5	15.0	9.0	6.0	3.0	3.0	1.5	0.0
80°	95.9	60.0	21.0	16.5	10.5	7.5	4.5	1.5	3.0	1.5	0.0
82.5°	52.5	30.0	16.5	12.0	10.5	6.0	4.5	1.5	1.5	1.5	0.0
85°	27.0	18.0	13.5	12.0	10.5	6.0	4.5	1.5	0.0	1.5	1.5
87.5°	15.0	13.5	13.5	12.0	10.5	7.5	4.5	1.5	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)