

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: P453977

Luminaire Tested: **GALN-SA5A-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17120 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

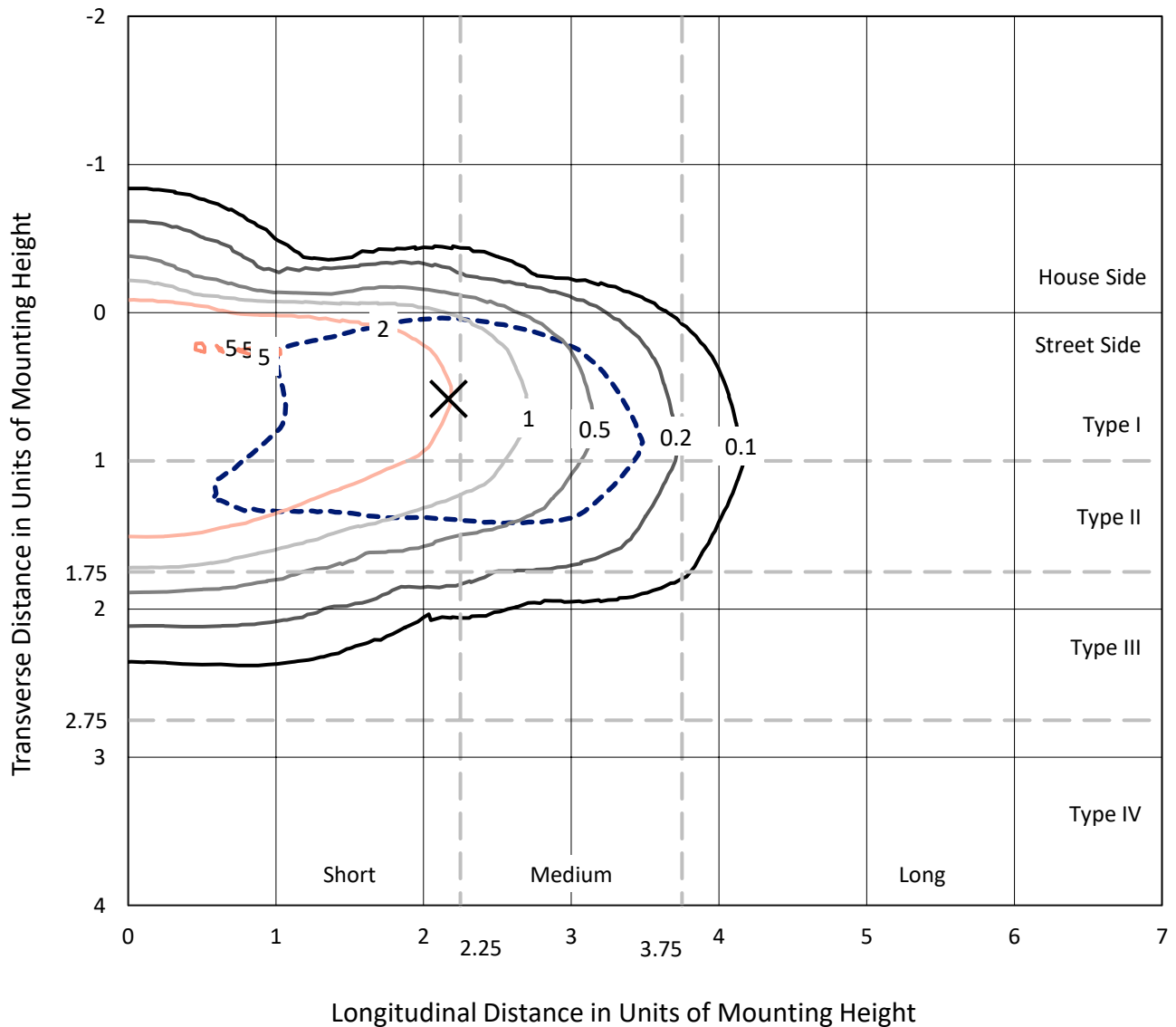
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P453977  
 CATALOG NUMBER: GALN-SA5A-740-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

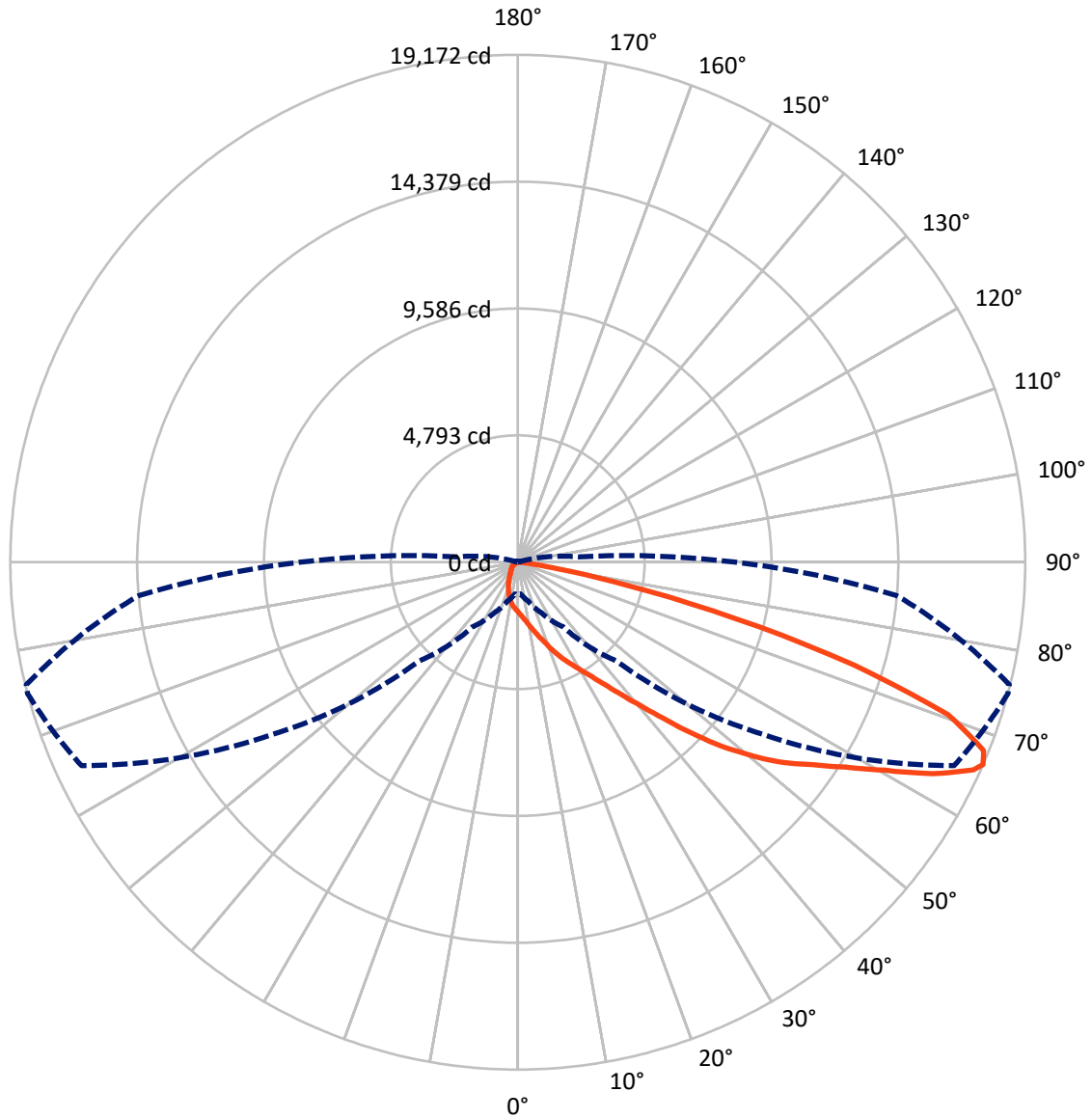
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P453977  
CATALOG NUMBER: GALN-SA5A-740-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P453977

CATALOG NUMBER: GALN-SA5A-740-U-T2-HSS

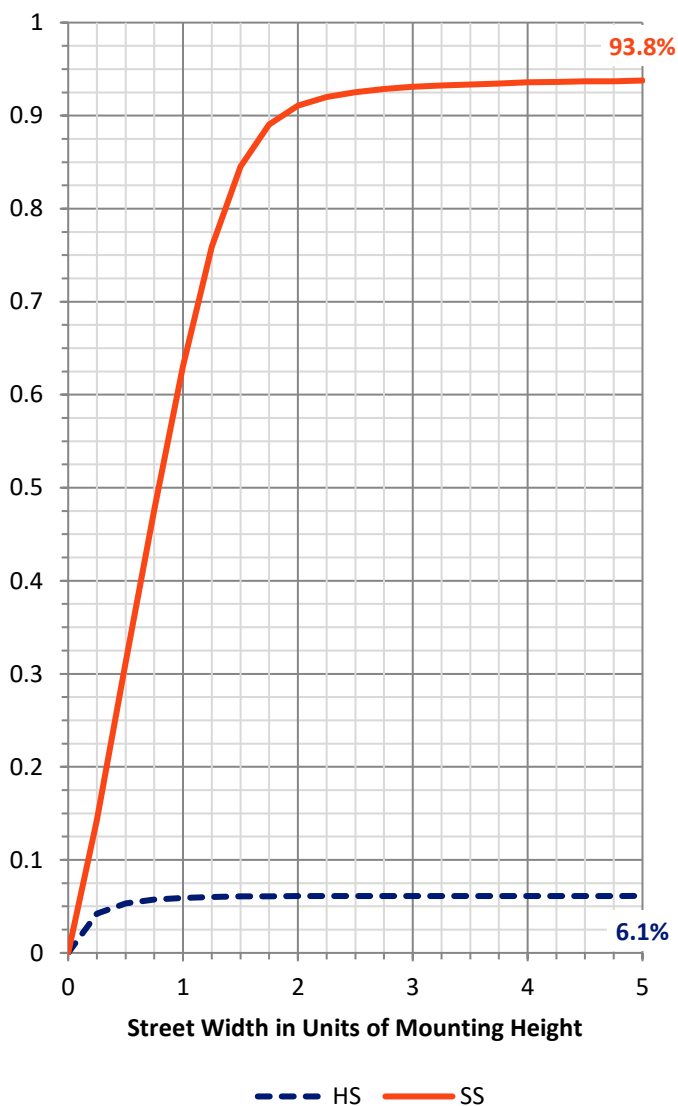
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1056.9	0.0	1056.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	16063.1	0.0	16063.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	17120.0	0.0	17120.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.6	1.1
10°-20°	531.5	3.1
20°-30°	917.7	5.4
30°-40°	1655.4	9.7
40°-50°	2990.4	17.5
50°-60°	4662.1	27.2
60°-70°	4428.8	25.9
70°-80°	1659.8	9.7
80°-90°	93.6	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°	17120.0	100.0
0°-180°	17120.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P453977

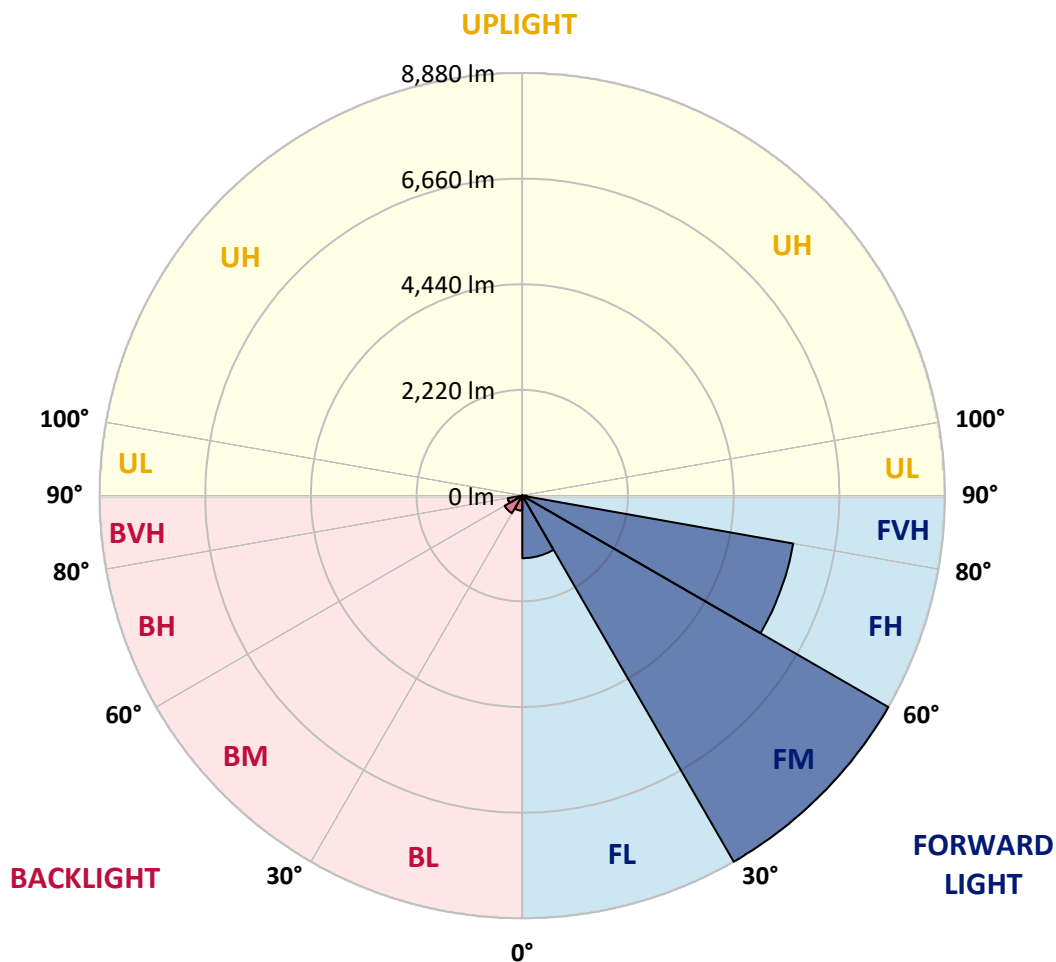
CATALOG NUMBER: GALN-SA5A-740-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1314.1	7.7			
FM (30°-60°)	8880.1	51.9			
FH (60°-80°)	5780.0	33.8			G3/7500
FVH (80°-90°)	88.8	0.5			G1/100
BL (0°-30°)	315.6	1.8	B1/500		
BM (30°-60°)	427.8	2.5	B1/1000		
BH (60°-80°)	308.6	1.8	B1/500		G1/500
BVH (80°-90°)	4.8	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-G3**

Type II Short





REPORT NUMBER: P453977  
 CATALOG NUMBER: GALN-SA5A-740-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1872.2	1872.2	1872.2	1872.2	1872.2	1872.2	1872.2	1872.2	1872.2	1872.2	1872.2
2.5°	2236.8	2209.0	2217.8	2205.2	2176.1	2133.0	2095.0	2040.6	1986.2	1977.3	1916.5
5°	2531.8	2524.2	2514.0	2477.3	2457.1	2391.3	2312.8	2219.1	2106.4	2086.2	1976.0
7.5°	2733.0	2729.2	2734.3	2715.3	2697.6	2638.1	2554.6	2426.7	2252.0	2240.6	2057.1
10°	2798.9	2809.0	2828.0	2858.4	2886.2	2867.2	2803.9	2644.4	2440.6	2407.7	2149.5
12.5°	2760.9	2772.3	2817.9	2898.9	2988.8	3040.7	3015.3	2898.9	2640.6	2614.0	2253.3
15°	2663.4	2677.3	2741.9	2867.2	3028.0	3174.8	3238.1	3154.6	2873.6	2830.5	2378.6
17.5°	2519.1	2539.4	2631.8	2797.6	3017.9	3271.0	3449.5	3421.7	3121.7	3081.2	2515.3
20°	2410.2	2425.4	2503.9	2693.8	2974.8	3324.2	3650.8	3729.3	3428.0	3358.4	2676.1
22.5°	2482.4	2487.5	2514.0	2628.0	2897.6	3338.1	3828.0	4049.6	3753.3	3691.3	2843.2
25°	2835.6	2784.9	2758.4	2733.0	2881.2	3325.5	3988.8	4383.8	4077.4	4011.6	3009.0
27.5°	3392.6	3369.8	3235.6	3055.8	3021.7	3341.9	4095.1	4700.2	4382.5	4311.6	3171.0
30°	3998.9	3959.7	3877.4	3614.1	3349.5	3458.4	4172.4	5007.8	4743.3	4649.6	3319.1
32.5°	4555.9	4581.2	4458.4	4187.5	3881.2	3706.5	4272.4	5343.3	5157.2	5040.7	3491.3
35°	5205.3	5255.9	5067.3	4807.8	4449.6	4154.6	4467.3	5721.8	5682.5	5535.7	3757.1
37.5°	5864.8	5895.2	5780.0	5415.4	5092.6	4724.3	4834.4	6188.9	6329.4	6204.1	4074.9
40°	6419.3	6461.1	6376.3	6052.2	5707.9	5383.8	5367.3	6697.8	7099.1	6970.0	4548.3
42.5°	6843.4	6875.0	6877.5	6648.4	6338.3	6191.4	6047.1	7347.2	8063.7	7914.3	5097.7
45°	7378.8	7424.4	7397.8	7242.1	7010.5	6983.9	6909.2	8132.0	9218.2	9029.5	5810.4
47.5°	8206.7	8237.1	8171.3	7987.7	7752.3	7794.0	7749.7	9011.8	10395.4	10233.4	6548.4
50°	8781.4	8832.1	8925.7	8999.2	8828.3	8673.8	8542.2	9833.4	11513.2	11367.6	7302.9
52.5°	8775.1	8858.7	9154.9	9524.5	9897.9	9851.1	9472.6	10741.0	12580.3	12400.6	8011.8
55°	8183.9	8346.0	8781.4	9437.2	10471.4	10986.6	10814.4	11791.7	13501.9	13380.4	8833.3
57.5°	6963.6	7062.4	7667.5	8584.0	10151.1	11520.8	12368.9	13215.8	14607.0	14550.1	10109.3
60°	4683.8	4728.1	5506.6	6639.6	8642.2	10987.9	13508.2	14938.7	15967.9	15940.0	11599.3
62.5°	2683.7	2702.7	3267.2	4223.0	6149.7	9311.8	13604.4	17064.1	17599.6	17614.8	13323.4
65°	1444.4	1454.5	1910.2	2478.6	3742.0	6637.0	12233.5	18228.7	18918.6	18947.7	14391.8
66°	1246.9	1198.8	1520.3	2112.8	2977.4	5282.5	11366.4	18186.9	19171.8	19140.2	14353.8
67.5°	948.1	991.2	1214.0	1624.1	2206.4	3755.9	9384.0	17378.0	18979.4	18880.6	13770.3
70°	678.5	696.2	864.6	1158.3	1502.6	2060.9	5996.5	14433.6	17250.2	17117.3	11996.8
72.5°	438.0	457.0	612.7	838.0	1086.1	1125.4	3357.1	10428.3	13299.4	13280.4	9034.6
75°	312.7	330.4	405.1	600.0	816.5	696.2	1616.5	7028.2	8454.8	8397.9	5588.9
77.5°	226.6	235.5	270.9	392.4	583.6	498.8	749.4	3753.3	4209.1	4407.8	2469.7
80°	130.4	138.0	188.6	239.3	395.0	340.5	358.2	1506.4	1553.2	1478.6	772.2
82.5°	64.6	73.4	112.7	163.3	246.8	229.1	164.6	453.2	478.5	465.8	194.9
85°	15.2	19.0	63.3	107.6	120.3	102.5	79.8	132.9	164.6	160.8	74.7
87.5°	1.3	2.5	22.8	19.0	20.3	34.2	27.8	34.2	53.2	49.4	26.6
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: P453977  
 CATALOG NUMBER: GALN-SA5A-740-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1872.2	1872.2	1872.2	1872.2	1872.2	1872.2	1872.2	1872.2	1872.2	1872.2	1872.2
2.5°	1888.7	1864.6	1795.0	1726.7	1669.7	1610.2	1555.8	1524.1	1511.5	1497.5	1503.9
5°	1915.3	1857.1	1716.5	1595.0	1476.0	1374.7	1293.7	1241.8	1216.5	1212.7	1206.4
7.5°	1950.7	1850.7	1633.0	1443.1	1287.4	1174.7	1082.3	1007.6	984.9	964.6	948.1
10°	1993.8	1839.3	1529.2	1283.6	1117.8	976.0	854.5	765.9	720.3	707.6	716.5
12.5°	2039.3	1817.8	1420.3	1136.8	945.6	764.6	651.9	607.6	595.0	589.9	591.2
15°	2084.9	1791.2	1306.4	995.0	753.2	610.2	558.3	546.9	541.8	539.3	536.7
17.5°	2126.7	1748.2	1178.5	857.0	610.2	521.5	502.6	492.4	482.3	478.5	472.2
20°	2176.1	1698.8	1063.3	702.6	516.5	472.2	449.4	430.4	415.2	405.1	403.8
22.5°	2222.9	1635.5	943.1	582.3	470.9	424.1	387.4	367.1	349.4	336.7	340.5
25°	2248.2	1558.3	835.5	507.6	429.1	376.0	335.5	310.1	291.2	284.8	283.6
27.5°	2248.2	1463.4	730.4	464.6	391.2	332.9	291.2	267.1	254.4	245.6	246.8
30°	2230.5	1358.3	632.9	431.7	358.2	295.0	255.7	234.2	224.1	217.7	216.5
32.5°	2216.6	1258.3	549.4	400.0	324.1	262.0	227.9	211.4	201.3	194.9	194.9
35°	2238.1	1172.2	484.8	368.4	292.4	236.7	206.3	191.1	181.0	176.0	174.7
37.5°	2295.0	1093.7	435.5	334.2	263.3	215.2	191.1	173.4	163.3	157.0	154.4
40°	2435.6	1049.4	398.8	302.5	235.5	197.5	173.4	157.0	144.3	138.0	136.7
42.5°	2660.9	1050.7	363.3	273.4	213.9	182.3	158.2	139.2	125.3	119.0	117.7
45°	3000.1	1098.8	335.5	245.6	194.9	165.8	141.8	121.5	108.9	102.5	102.5
47.5°	3406.5	1192.5	311.4	221.5	177.2	150.6	125.3	105.1	92.4	87.3	87.3
50°	3847.0	1314.0	287.4	196.2	162.0	134.2	107.6	91.1	81.0	77.2	77.2
52.5°	4296.4	1460.8	263.3	176.0	145.6	116.5	92.4	81.0	72.2	69.6	68.4
55°	4886.3	1648.2	238.0	154.4	127.9	100.0	82.3	70.9	60.8	57.0	55.7
57.5°	5793.9	1930.5	210.1	135.4	105.1	83.5	70.9	59.5	48.1	41.8	40.5
60°	6888.9	2274.8	181.0	119.0	84.8	68.4	57.0	45.6	35.4	27.8	26.6
62.5°	7914.3	2493.8	153.2	100.0	67.1	51.9	40.5	34.2	25.3	17.7	16.5
65°	8367.5	2420.4	126.6	81.0	53.2	36.7	26.6	24.1	15.2	7.6	6.3
66°	8216.8	2311.5	116.5	73.4	48.1	31.6	22.8	20.3	11.4	3.8	3.8
67.5°	7772.5	2054.5	101.3	63.3	41.8	25.3	17.7	15.2	6.3	1.3	0.0
70°	6659.8	1662.1	79.8	46.8	30.4	17.7	10.1	7.6	3.8	0.0	0.0
72.5°	5115.4	1238.0	63.3	35.4	21.5	10.1	5.1	2.5	3.8	0.0	0.0
75°	3134.3	707.6	49.4	26.6	13.9	6.3	3.8	0.0	3.8	1.3	0.0
77.5°	1391.2	317.7	32.9	17.7	10.1	5.1	2.5	0.0	2.5	1.3	0.0
80°	351.9	103.8	19.0	12.7	7.6	3.8	1.3	0.0	2.5	2.5	1.3
82.5°	96.2	38.0	13.9	10.1	6.3	3.8	1.3	0.0	2.5	2.5	2.5
85°	38.0	17.7	12.7	10.1	7.6	3.8	1.3	0.0	2.5	2.5	2.5
87.5°	17.7	12.7	12.7	11.4	8.9	3.8	1.3	0.0	2.5	1.3	2.5
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)