

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: P459174

Luminaire Tested: **GALN-SA6C-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459174  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6C-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30406 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

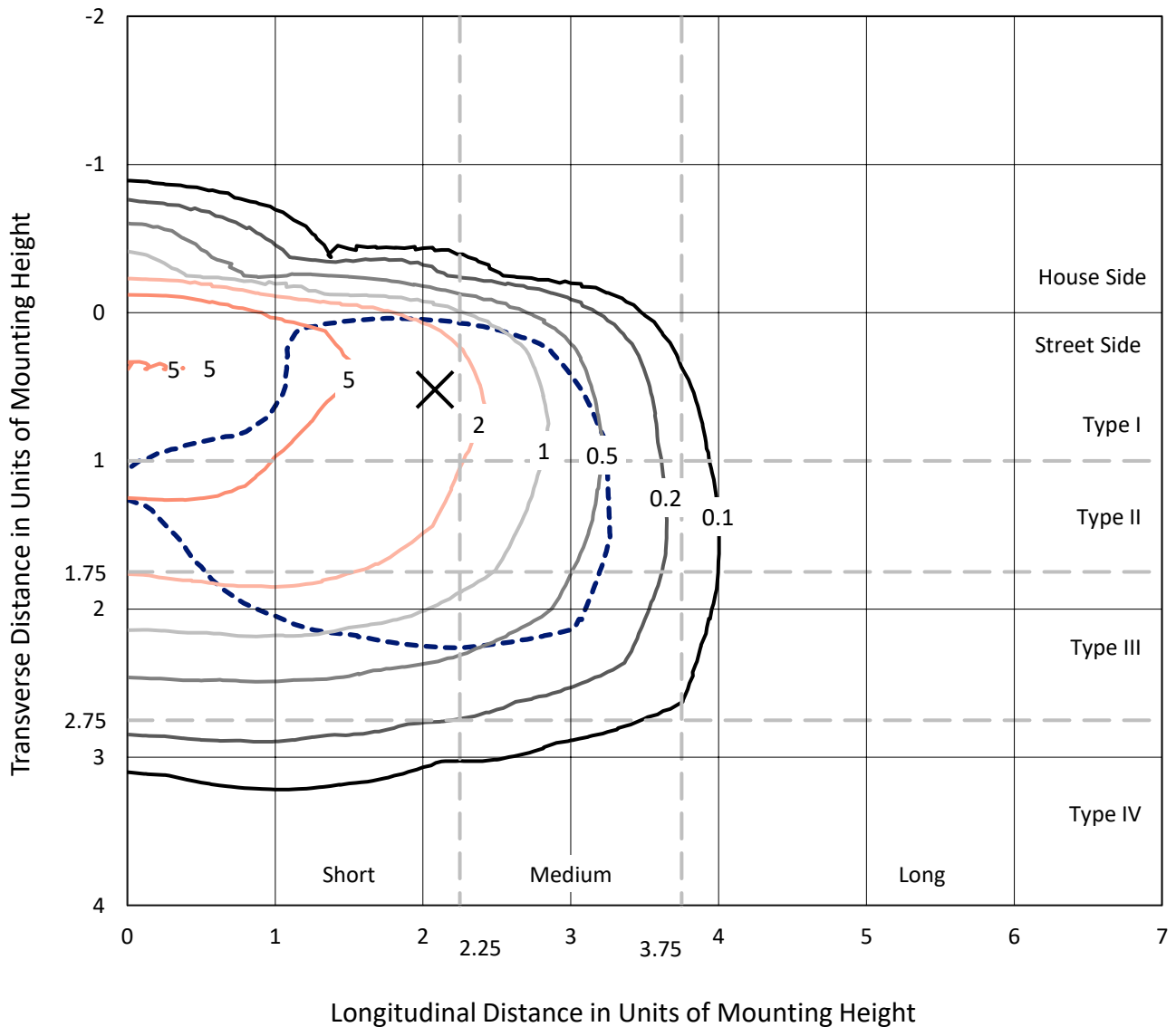
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

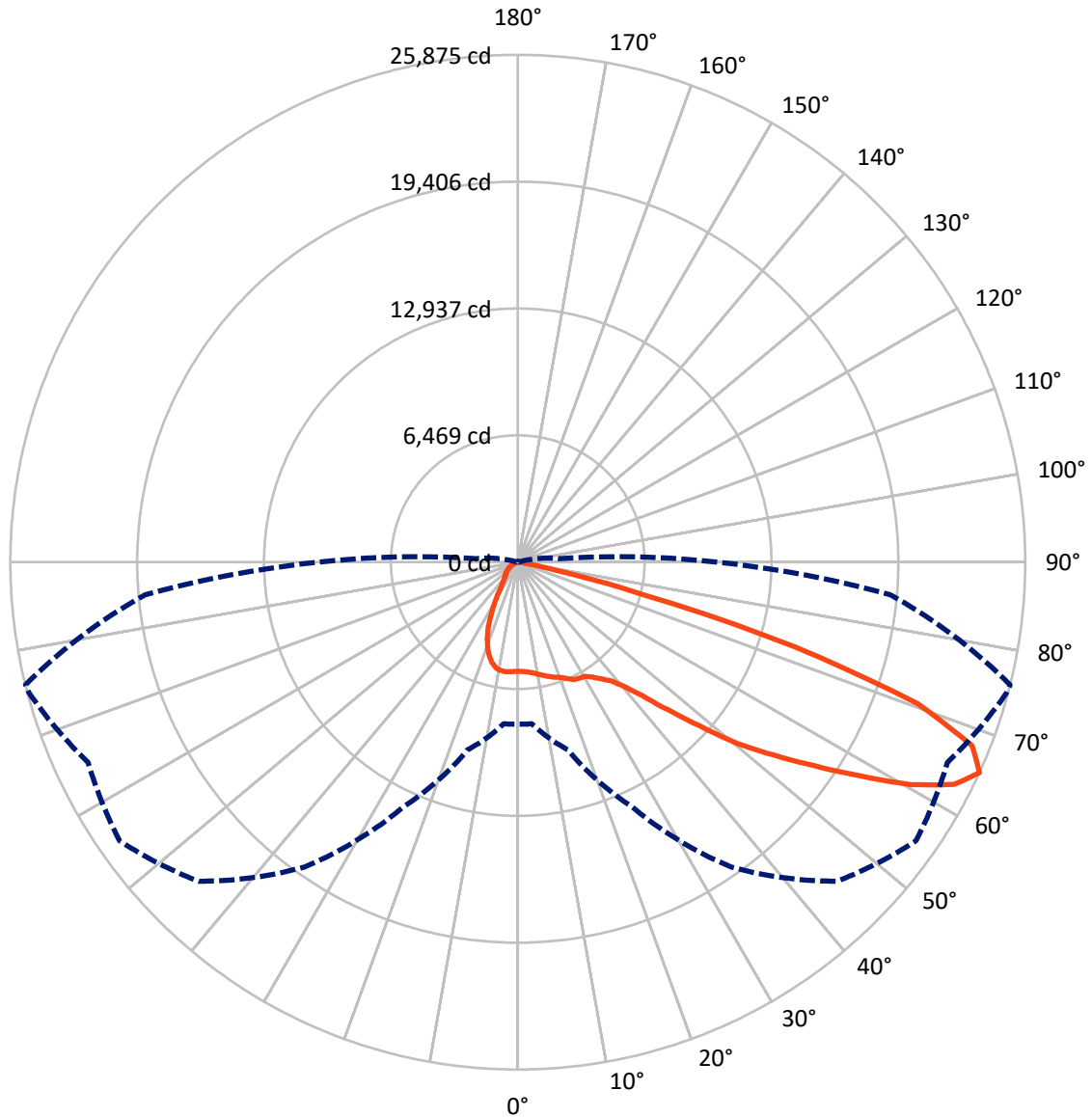
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P459174  
CATALOG NUMBER: GALN-SA6C-735-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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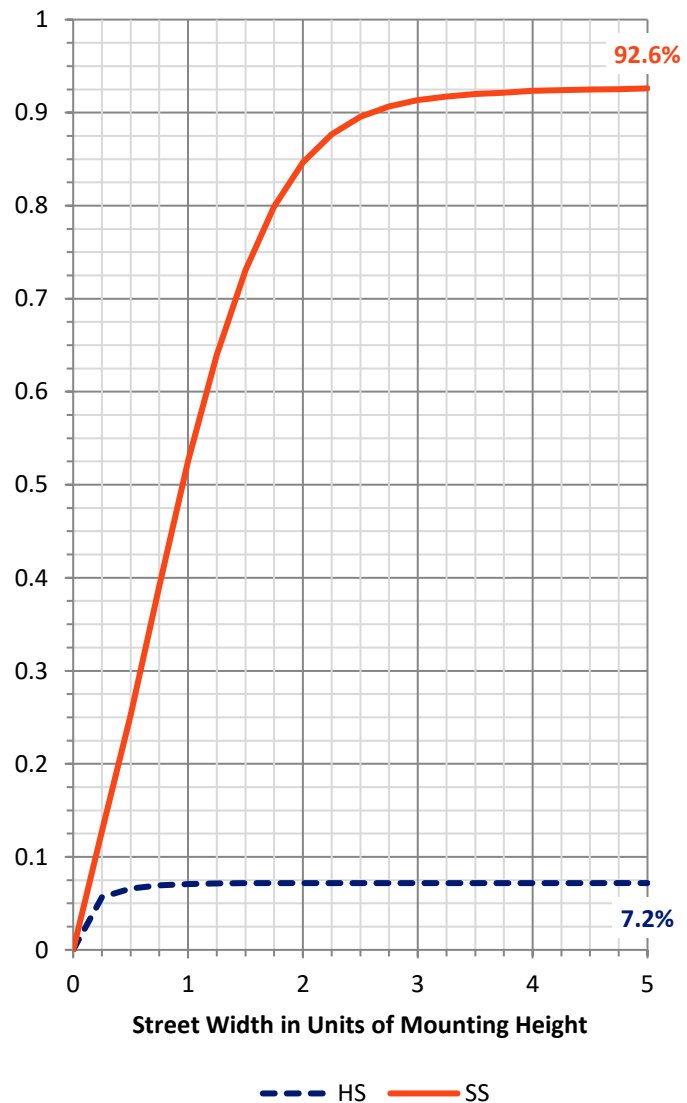
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2195.9	0.0	2195.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	28210.1	0.0	28210.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	30406.0	0.0	30406.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.2	1.5
10°-20°	1020.2	3.4
20°-30°	1644.0	5.4
30°-40°	2858.5	9.4
40°-50°	4723.5	15.5
50°-60°	7296.8	24.0
60°-70°	8910.4	29.3
70°-80°	3381.7	11.1
80°-90°	112.9	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°	30406.0	100.0
0°-180°	30406.0	100.0



REPORT NUMBER: P459174

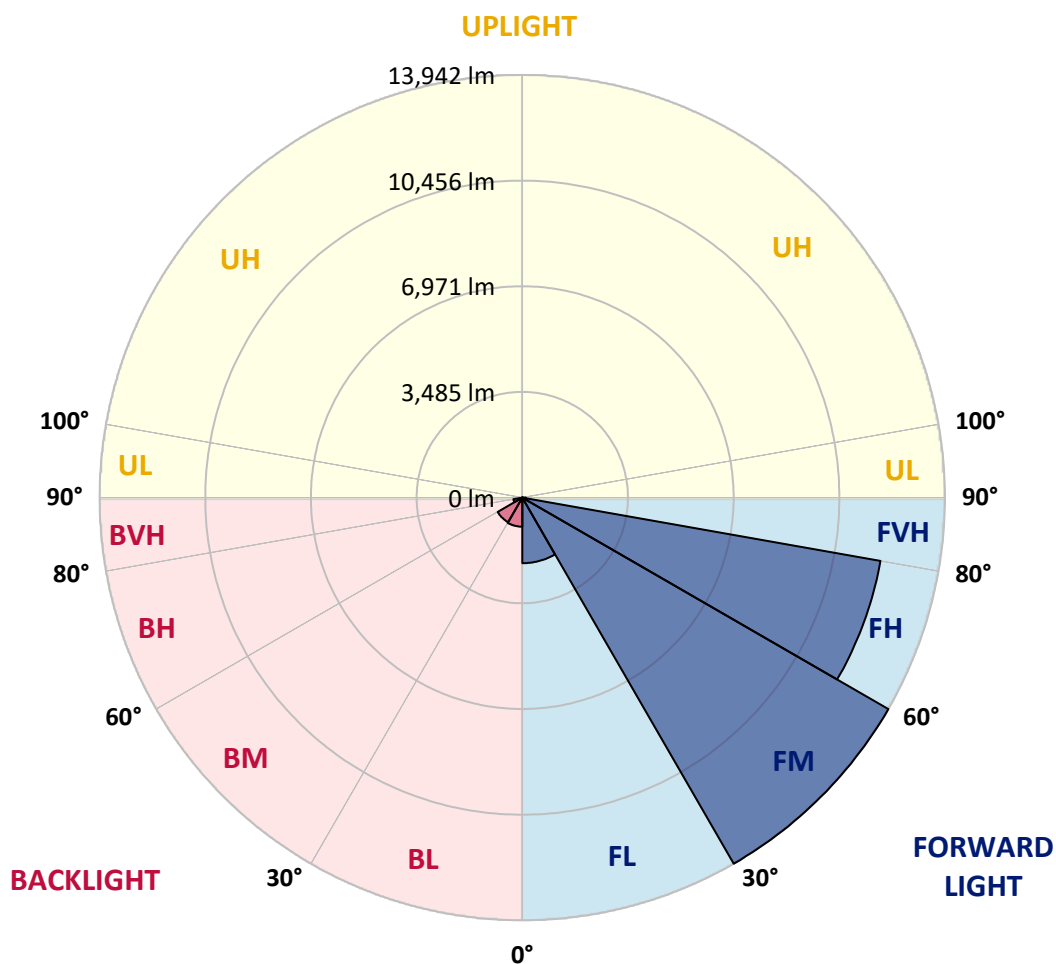
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2163.0	7.1			
FM	(30°-60°)	13941.6	45.9			
FH	(60°-80°)	11994.1	39.4			G4/12000
FVH	(80°-90°)	111.3	0.4			G2/225
BL	(0°-30°)	959.3	3.2	B2/1000		
BM	(30°-60°)	937.1	3.1	B1/1000		
BH	(60°-80°)	298.0	1.0	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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CATALOG NUMBER: GALN-SA6C-735-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5562.2	5562.2	5562.2	5562.2	5562.2	5562.2	5562.2	5562.2	5562.2	5562.2	5562.2
2.5°	5315.4	5317.5	5330.4	5362.6	5412.0	5452.7	5487.1	5542.9	5581.5	5585.8	5598.7
5°	4948.3	4922.5	4948.3	5032.0	5107.1	5220.9	5360.4	5500.0	5624.5	5633.1	5693.2
7.5°	4536.1	4557.5	4598.3	4684.2	4825.9	4999.8	5201.6	5450.6	5686.7	5708.2	5826.3
10°	4117.5	4164.7	4231.2	4362.2	4559.7	4785.1	5059.9	5416.2	5785.5	5815.5	6019.5
12.5°	3731.1	3752.5	3834.1	4010.1	4254.9	4572.6	4952.6	5396.9	5895.0	5931.5	6225.6
15°	3434.8	3462.7	3533.5	3692.4	3965.0	4372.9	4864.5	5390.5	6002.3	6053.8	6431.7
17.5°	3379.0	3396.2	3426.2	3533.5	3771.8	4214.1	4785.1	5388.3	6105.4	6167.6	6622.7
20°	3608.7	3593.7	3563.6	3552.9	3683.8	4091.7	4727.1	5405.5	6204.1	6274.9	6824.5
22.5°	4184.0	4203.3	4027.3	3819.1	3776.1	4072.4	4718.6	5487.1	6360.8	6444.5	7049.9
25°	5405.5	5257.4	4982.6	4484.6	4108.9	4190.5	4815.2	5680.3	6543.3	6635.6	7253.9
27.5°	6755.8	6710.7	6283.5	5463.5	4763.6	4439.5	4986.9	5828.4	6603.4	6697.9	7369.8
30°	8082.5	8136.2	7646.7	6740.8	5714.6	4901.0	5147.9	5884.2	6657.1	6755.8	7517.9
32.5°	9312.6	9377.0	8947.7	8050.3	6835.3	5699.6	5424.8	6101.1	6882.5	6983.4	7764.8
35°	10280.8	10289.4	9965.2	9250.3	8058.9	6670.0	6023.8	6481.0	7187.3	7305.4	8026.7
37.5°	11169.5	11156.7	10776.7	10160.6	9078.6	7633.8	6777.3	6919.0	7535.1	7657.5	8404.5
40°	11828.6	11837.2	11714.8	11135.2	10029.6	8524.7	7374.1	7329.0	8119.0	8310.1	8954.1
42.5°	12268.7	12348.1	12408.2	12114.1	11225.4	9621.7	8290.7	8207.0	9132.3	9291.1	9731.2
45°	12625.0	12766.7	13067.3	13052.2	12373.9	10967.7	9548.7	9377.0	10568.4	10738.0	10720.9
47.5°	12884.8	13028.6	13526.7	13827.2	13453.7	12273.0	11130.9	10982.8	12283.7	12468.3	11813.6
50°	13017.9	13189.6	13825.1	14406.8	14297.4	13531.0	12934.2	12942.8	14355.3	14533.5	13080.1
52.5°	12706.6	12929.9	13983.9	15031.5	15244.1	14735.3	14623.7	14907.0	16199.4	16351.8	14224.4
55°	11712.7	11993.9	13767.1	15563.9	16341.1	16156.4	16542.9	16974.3	18215.2	18313.9	15398.6
57.5°	11083.7	11382.1	13127.4	16016.9	17659.2	17942.5	18554.4	18869.9	20295.4	20546.5	16746.8
60°	10553.4	10787.4	12601.4	16113.5	18998.7	20127.9	20722.6	21048.9	22862.9	23026.0	18230.2
62.5°	9671.1	9939.4	11712.7	15439.4	19672.8	21877.5	23109.8	22963.8	24848.6	24962.4	19140.4
65°	8252.1	8275.7	9909.4	13745.6	18977.3	23013.2	24786.4	24174.5	25797.5	25874.8	19069.6
67.5°	6159.0	6386.6	7623.1	10804.6	16029.8	22042.8	25329.5	24206.7	25198.5	24983.9	17556.1
70°	3967.2	4141.1	5167.2	7492.2	11558.1	18395.5	23528.4	22547.3	22115.8	21639.2	14370.3
72.5°	1831.2	2054.4	3069.9	4280.6	6854.6	13103.8	19099.6	18318.2	15918.1	14741.7	9134.4
75°	798.6	854.4	1515.6	2258.4	3213.7	6929.7	12592.8	11371.3	7189.5	6566.9	3655.9
77.5°	487.3	523.8	794.3	1210.8	1262.3	2640.5	6783.7	4961.1	2221.9	1960.0	991.8
80°	330.6	371.4	577.5	633.3	431.5	736.3	2546.0	1324.5	448.7	429.3	212.5
82.5°	161.0	203.9	427.2	354.2	186.8	236.1	740.6	283.4	131.0	122.4	75.1
85°	23.6	40.8	240.4	231.8	83.7	55.8	131.0	70.8	45.1	42.9	34.3
87.5°	0.0	0.0	81.6	36.5	8.6	8.6	15.0	15.0	17.2	15.0	17.2
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: P459174

CATALOG NUMBER: GALN-SA6C-735-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5562.2	5562.2	5562.2	5562.2	5562.2	5562.2	5562.2	5562.2	5562.2	5562.2	5562.2
2.5°	5605.2	5615.9	5575.1	5517.1	5454.9	5392.6	5304.6	5225.2	5178.0	5205.9	5137.2
5°	5706.1	5697.5	5590.1	5414.1	5180.1	4898.9	4619.8	4381.5	4304.2	4188.3	4175.4
7.5°	5845.6	5822.0	5594.4	5190.8	4662.7	4134.6	3619.4	3278.1	3082.7	2917.4	2921.7
10°	6041.0	5972.3	5545.1	4798.0	3928.6	3132.1	2475.2	2024.4	1829.0	1766.8	1717.4
12.5°	6242.7	6109.6	5407.7	4267.7	3059.1	2140.3	1504.9	1230.1	1109.9	1071.2	1066.9
15°	6423.1	6212.7	5167.2	3630.2	2224.0	1367.5	1026.1	936.0	921.0	923.1	921.0
17.5°	6601.3	6294.3	4834.5	2953.9	1511.3	981.1	882.3	860.8	867.3	875.9	873.7
20°	6749.4	6311.4	4409.4	2254.1	1069.1	860.8	828.6	824.4	830.8	837.2	837.2
22.5°	6910.4	6324.3	3904.9	1560.7	873.7	800.7	783.6	783.6	792.2	800.7	802.9
25°	7030.6	6253.5	3301.7	1120.6	770.7	742.8	734.2	736.3	744.9	749.2	747.1
27.5°	7049.9	6053.8	2662.0	858.7	699.8	671.9	663.3	671.9	661.2	667.6	663.3
30°	7067.1	5800.5	2013.7	723.5	635.4	592.5	579.6	566.7	558.2	547.4	545.3
32.5°	7120.8	5502.1	1470.5	650.5	575.3	528.1	498.0	461.6	433.6	425.1	422.9
35°	7144.4	5143.6	1079.8	592.5	521.7	470.1	416.5	364.9	324.2	309.1	319.9
37.5°	7234.5	4795.8	837.2	549.6	474.4	410.0	341.3	276.9	238.3	229.7	234.0
40°	7419.2	4418.0	702.0	513.1	433.6	354.2	270.5	208.2	182.5	173.9	171.7
42.5°	7715.4	4042.3	624.7	478.7	392.9	298.4	212.5	163.2	141.7	135.2	135.2
45°	8076.1	3681.7	571.0	442.2	349.9	240.4	167.4	131.0	118.1	113.8	113.8
47.5°	8550.5	3366.1	526.0	405.7	302.7	191.1	135.2	113.8	105.2	107.3	109.5
50°	9031.4	3132.1	476.6	364.9	249.0	156.7	115.9	100.9	98.8	100.9	100.9
52.5°	9394.2	2994.7	410.0	309.1	195.4	131.0	103.0	94.5	92.3	88.0	88.0
55°	9883.6	2964.7	326.3	251.2	154.6	109.5	92.3	85.9	79.4	75.1	73.0
57.5°	10512.6	2999.0	251.2	195.4	120.2	90.2	81.6	70.8	62.3	53.7	53.7
60°	10903.3	2921.7	195.4	150.3	88.0	73.0	62.3	51.5	40.8	34.3	32.2
62.5°	10778.8	2595.4	154.6	111.6	62.3	53.7	40.8	34.3	23.6	17.2	15.0
65°	10137.0	2095.2	124.5	77.3	45.1	32.2	21.5	21.5	10.7	2.1	0.0
67.5°	8872.5	1552.1	98.8	51.5	25.8	15.0	10.7	6.4	0.0	0.0	0.0
70°	7221.7	1120.6	77.3	32.2	15.0	10.7	4.3	2.1	0.0	0.0	0.0
72.5°	4585.5	641.9	60.1	19.3	10.7	4.3	0.0	0.0	0.0	0.0	0.0
75°	1773.2	251.2	40.8	12.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	502.3	118.1	23.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	131.0	51.5	12.9	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.3	21.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.5	8.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	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)