

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: P646960

Luminaire Tested: **GALN-SA5C-835-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646960  
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-SA5C-835-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1050mA 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: 20608.6 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

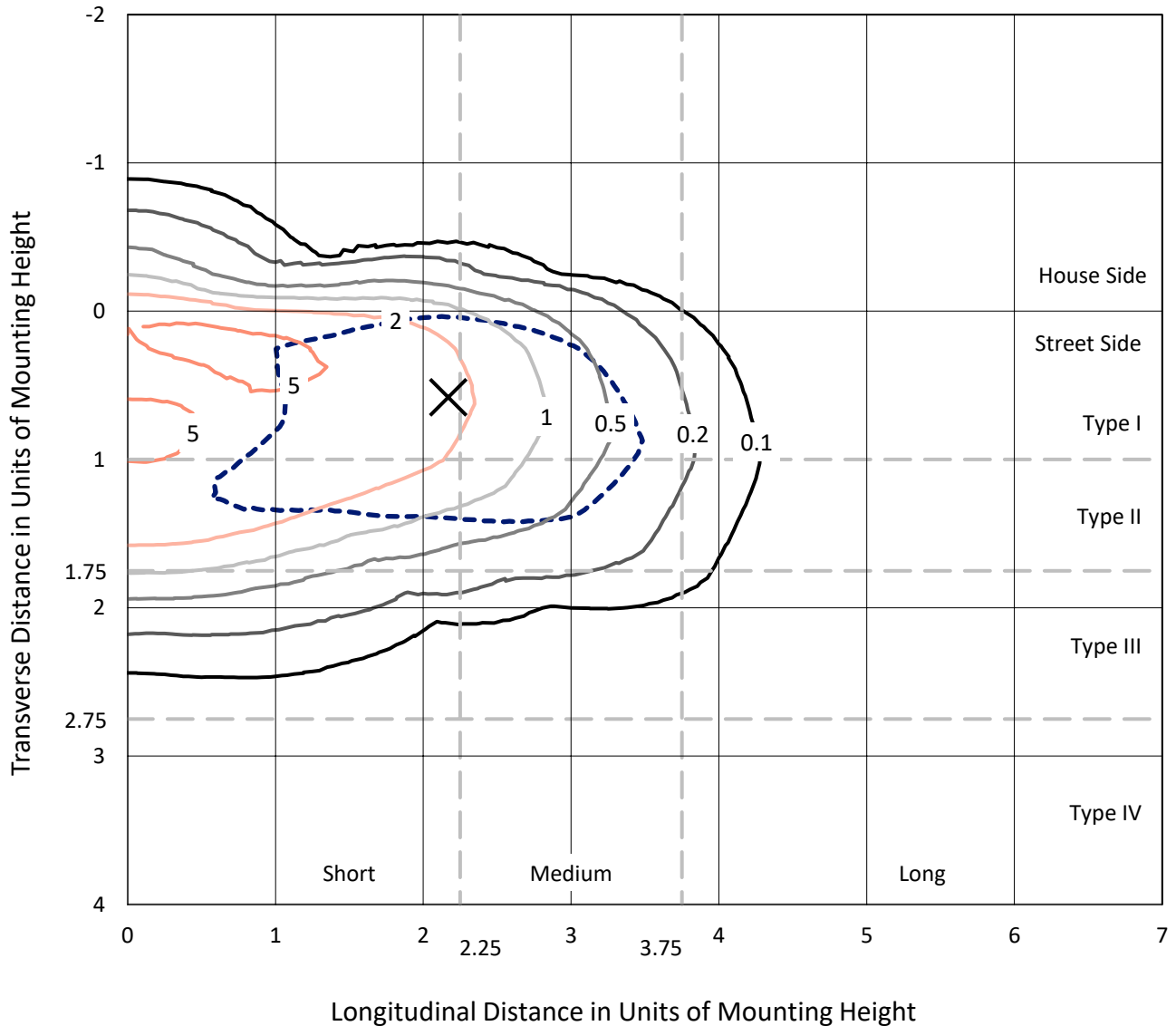
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P646960  
 CATALOG NUMBER: GALN-SA5C-835-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

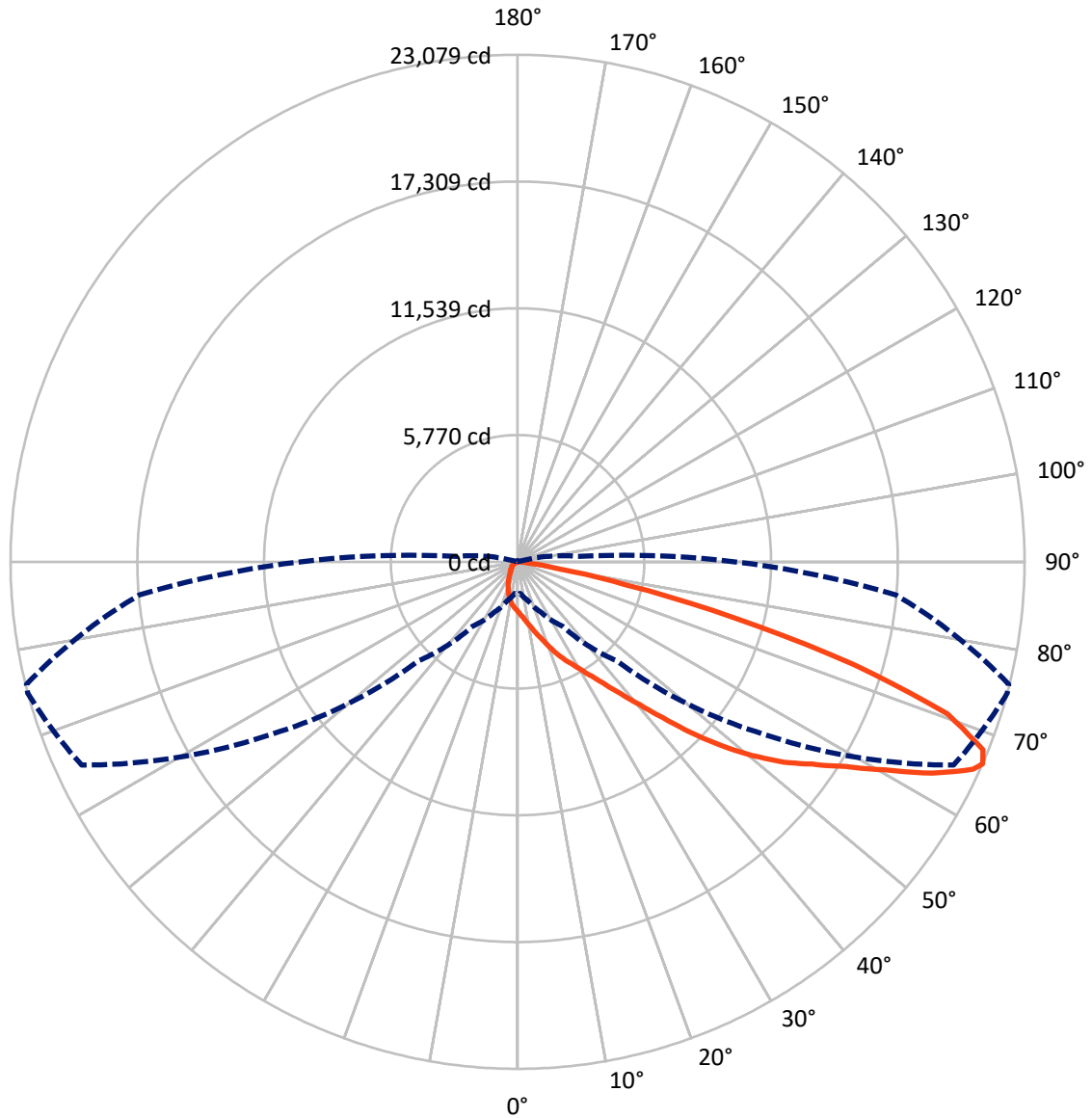
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P646960  
CATALOG NUMBER: GALN-SA5C-835-U-T2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P646960  
 CATALOG NUMBER: GALN-SA5C-835-U-T2-HSS

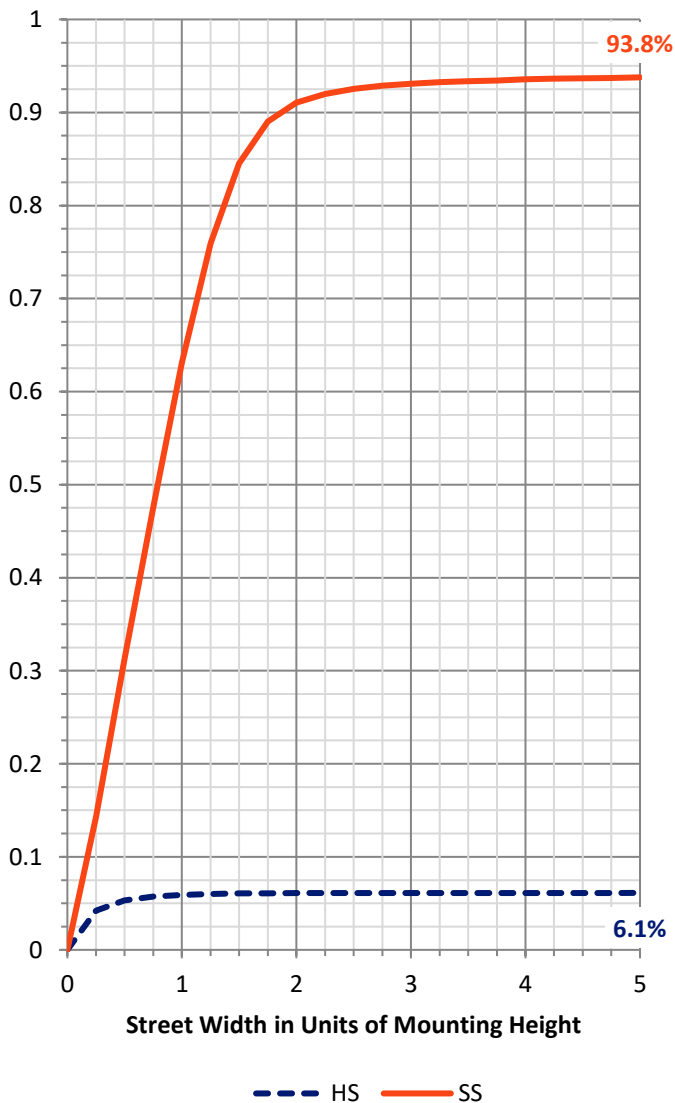
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1272.3	0.0	1272.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	19336.3	0.0	19336.3
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	20608.6	0.0	20608.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.4	1.1
10°-20°	639.8	3.1
20°-30°	1104.7	5.4
30°-40°	1992.7	9.7
40°-50°	3599.8	17.5
50°-60°	5612.1	27.2
60°-70°	5331.3	25.9
70°-80°	1998.0	9.7
80°-90°	112.7	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°	20608.6	100.0
0°-180°	20608.6	100.0

**Coefficient of Utilization**

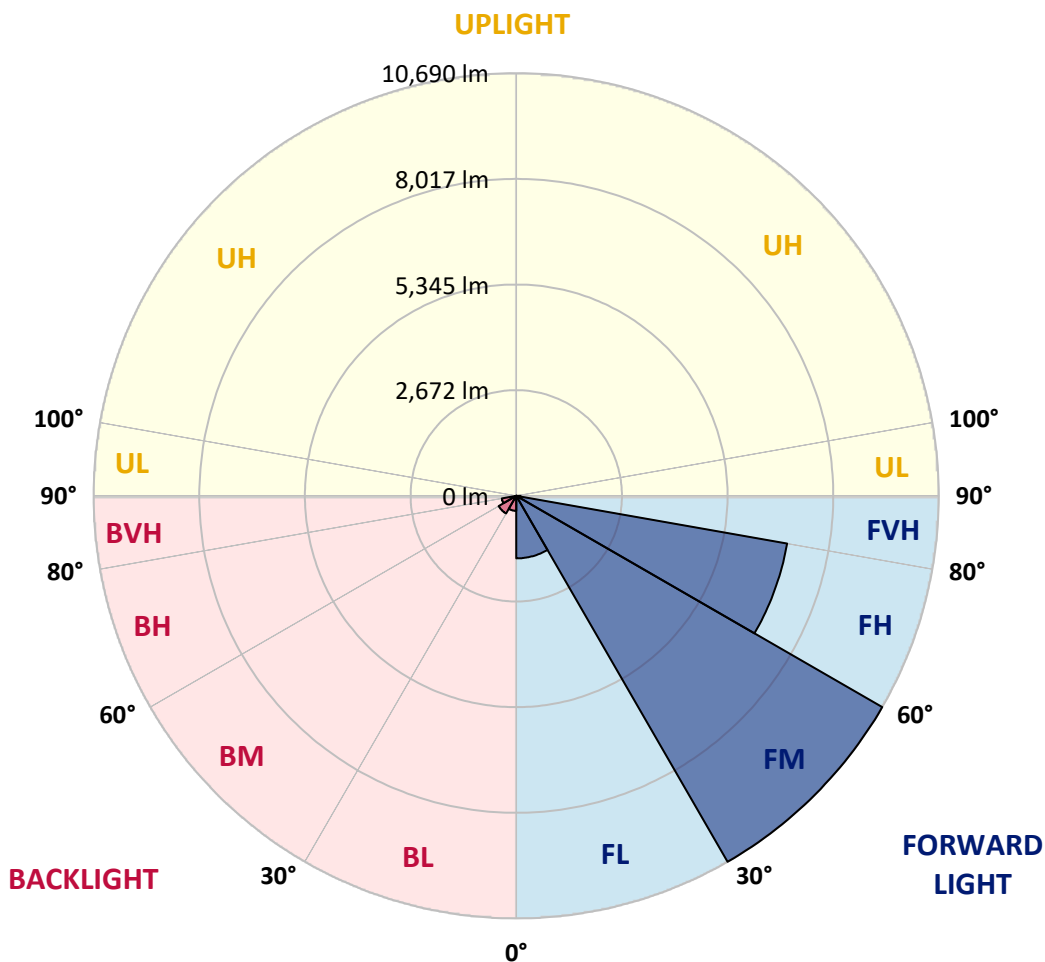


REPORT NUMBER: P646960  
 CATALOG NUMBER: GALN-SA5C-835-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1581.9	7.7			
FM (30°-60°)	10689.6	51.9			
FH (60°-80°)	6957.8	33.8			G3/7500
FVH (80°-90°)	106.9	0.5			G2/225
BL (0°-30°)	380.0	1.8	B1/500		
BM (30°-60°)	515.0	2.5	B1/1000		
BH (60°-80°)	371.5	1.8	B1/500		G1/500
BVH (80°-90°)	5.8	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: P646960

CATALOG NUMBER: GALN-SA5C-835-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8
2.5°	2692.6	2659.1	2669.8	2654.5	2619.4	2567.7	2522.0	2456.4	2390.9	2380.2	2307.1
5°	3047.7	3038.5	3026.3	2982.1	2957.8	2878.5	2784.0	2671.3	2535.7	2511.3	2378.7
7.5°	3289.9	3285.4	3291.5	3268.6	3247.3	3175.7	3075.1	2921.2	2710.9	2697.2	2476.2
10°	3369.2	3381.4	3404.2	3440.8	3474.3	3451.5	3375.3	3183.3	2938.0	2898.4	2587.5
12.5°	3323.4	3337.2	3392.0	3489.6	3597.8	3660.2	3629.8	3489.6	3178.7	3146.7	2712.4
15°	3206.2	3222.9	3300.7	3451.5	3645.0	3821.7	3897.9	3797.4	3459.1	3407.3	2863.3
17.5°	3032.4	3056.8	3168.0	3367.7	3632.8	3937.6	4152.5	4118.9	3757.8	3709.0	3027.9
20°	2901.4	2919.7	3014.2	3242.7	3581.0	4001.6	4394.7	4489.3	4126.6	4042.7	3221.4
22.5°	2988.2	2994.3	3026.3	3163.5	3488.0	4018.4	4608.1	4874.7	4518.1	4443.5	3422.5
25°	3413.4	3352.4	3320.5	3289.9	3468.2	4003.1	4801.6	5277.0	4908.2	4829.0	3622.2
27.5°	4083.9	4056.4	3895.0	3678.5	3637.4	4022.9	4929.6	5658.0	5275.5	5190.2	3817.2
30°	4813.8	4766.5	4667.5	4350.6	4032.1	4163.1	5022.6	6028.3	5709.8	5597.0	3995.5
32.5°	5484.3	5514.7	5366.9	5040.9	4672.1	4461.8	5142.9	6432.1	6208.1	6067.9	4202.8
35°	6266.0	6327.0	6099.9	5787.5	5356.3	5001.3	5377.6	6887.7	6840.5	6663.7	4522.8
37.5°	7059.9	7096.5	6957.8	6518.9	6130.4	5686.9	5819.5	7450.0	7619.1	7468.3	4905.2
40°	7727.3	7777.6	7675.5	7285.4	6871.0	6480.9	6461.1	8062.6	8545.7	8390.2	5475.1
42.5°	8237.9	8275.9	8279.0	8003.2	7629.9	7453.1	7279.3	8844.3	9706.9	9527.0	6136.4
45°	8882.4	8937.3	8905.3	8717.8	8439.0	8407.0	8317.1	9789.1	11096.5	10869.5	6994.4
47.5°	9879.0	9915.6	9836.4	9615.4	9332.0	9382.2	9328.9	10848.2	12513.7	12318.7	7882.8
50°	10570.8	10631.8	10744.6	10833.0	10627.2	10441.3	10282.8	11837.2	13859.3	13684.0	8791.0
52.5°	10563.2	10663.8	11020.3	11465.3	11914.8	11858.5	11402.8	12929.8	15143.8	14927.5	9644.4
55°	9851.5	10046.7	10570.8	11360.2	12605.1	13225.3	13018.1	14194.5	16253.2	16106.9	10633.3
57.5°	8382.6	8501.5	9229.8	10333.1	12219.7	13868.4	14889.4	15908.8	17583.5	17514.9	12169.3
60°	5638.1	5691.5	6628.6	7992.5	10403.2	13226.9	16260.8	17982.8	19221.6	19188.1	13962.8
62.5°	3230.5	3253.4	3933.0	5083.5	7402.8	11209.3	16376.6	20541.3	21185.9	21204.1	16038.3
65°	1738.7	1750.9	2299.4	2983.7	4504.4	7989.5	14726.4	21943.2	22773.7	22808.7	17324.5
66°	1501.0	1443.1	1830.1	2543.3	3584.0	6359.0	13682.5	21892.9	23078.5	23040.4	17278.8
67.5°	1141.4	1193.1	1461.4	1955.1	2656.0	4521.2	11296.2	20919.2	22846.8	22728.0	16576.3
70°	816.7	838.1	1040.8	1394.3	1808.8	2480.8	7218.4	17374.8	20765.3	20605.3	14441.3
72.5°	527.3	550.1	737.5	1008.7	1307.5	1354.7	4041.2	12553.4	16009.4	15986.5	10875.6
75°	376.4	397.7	487.7	722.3	982.9	838.1	1945.9	8460.3	10177.7	10109.1	6727.7
77.5°	272.8	283.4	326.1	472.4	702.5	600.4	902.1	4518.1	5066.7	5306.0	2973.0
80°	157.0	166.1	227.1	288.0	475.4	409.9	431.3	1813.3	1869.7	1779.8	929.5
82.5°	77.8	88.4	135.6	196.6	297.1	275.9	198.1	545.5	576.0	560.8	234.7
85°	18.3	22.9	76.2	129.5	144.8	123.4	96.0	160.0	198.1	193.6	89.9
87.5°	1.5	3.1	27.4	22.9	24.4	41.1	33.5	41.1	64.0	59.4	32.0
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: P646960  
 CATALOG NUMBER: GALN-SA5C-835-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8
2.5°	2273.6	2244.6	2160.8	2078.5	2010.0	1938.3	1872.8	1834.7	1819.5	1802.7	1810.3
5°	2305.5	2235.5	2066.3	1920.0	1776.8	1654.9	1557.4	1494.9	1464.4	1459.8	1452.2
7.5°	2348.2	2227.9	1965.7	1737.2	1549.7	1414.1	1302.9	1212.9	1185.5	1161.2	1141.4
10°	2400.1	2214.2	1840.8	1545.2	1345.5	1174.9	1028.5	921.9	867.1	851.8	862.5
12.5°	2454.9	2188.3	1709.8	1368.4	1138.3	920.4	784.8	731.5	716.2	710.1	711.7
15°	2509.7	2156.2	1572.6	1197.8	906.7	734.5	672.0	658.3	652.2	649.2	646.1
17.5°	2560.0	2104.4	1418.7	1031.6	734.5	627.8	604.9	592.8	580.6	576.0	568.4
20°	2619.4	2045.0	1280.0	845.7	621.7	568.4	541.0	518.1	499.8	487.7	486.1
22.5°	2675.8	1968.8	1135.3	700.9	566.9	510.5	466.3	441.9	420.5	405.4	409.9
25°	2706.4	1875.8	1005.8	611.1	516.5	452.6	403.8	373.3	350.5	342.9	341.3
27.5°	2706.4	1761.5	879.2	559.2	470.9	400.7	350.5	321.5	306.3	295.7	297.1
30°	2685.0	1635.1	761.9	519.6	431.3	355.1	307.8	281.9	269.7	262.1	260.6
32.5°	2668.2	1514.7	661.3	481.5	390.1	315.5	274.3	254.5	242.3	234.7	234.7
35°	2694.1	1411.0	583.6	443.4	352.0	284.9	248.4	230.1	217.9	211.8	210.3
37.5°	2762.7	1316.6	524.2	402.3	317.0	259.0	230.1	208.7	196.6	188.9	185.9
40°	2931.9	1263.3	480.0	364.2	283.4	237.7	208.7	188.9	173.7	166.1	164.6
42.5°	3203.1	1264.8	437.3	329.2	257.5	219.4	190.5	167.6	150.9	143.2	141.7
45°	3611.5	1322.7	403.8	295.7	234.7	199.6	170.7	146.3	131.1	123.4	123.4
47.5°	4100.6	1435.5	374.9	266.7	213.4	181.3	150.9	126.5	111.3	105.2	105.2
50°	4630.9	1581.7	345.9	236.2	195.0	161.5	129.5	109.7	97.6	92.9	92.9
52.5°	5171.9	1758.5	317.0	211.8	175.2	140.2	111.3	97.6	86.8	83.8	82.3
55°	5882.0	1984.0	286.5	185.9	153.9	120.3	99.0	85.3	73.1	68.6	67.0
57.5°	6974.6	2323.9	253.0	163.0	126.5	100.5	85.3	71.6	57.9	50.3	48.8
60°	8292.7	2738.3	217.9	143.2	102.1	82.3	68.6	54.9	42.7	33.5	32.0
62.5°	9527.0	3001.9	184.4	120.3	80.7	62.5	48.8	41.1	30.5	21.3	19.8
65°	10072.5	2913.5	152.4	97.6	64.0	44.2	32.0	29.0	18.3	9.2	7.6
66°	9891.2	2782.5	140.2	88.4	57.9	38.1	27.4	24.4	13.7	4.5	4.5
67.5°	9356.3	2473.2	121.9	76.2	50.3	30.5	21.3	18.3	7.6	1.5	0.0
70°	8016.9	2000.8	96.0	56.4	36.6	21.3	12.2	9.2	4.5	0.0	0.0
72.5°	6157.8	1490.3	76.2	42.7	25.9	12.2	6.1	3.1	4.5	0.0	0.0
75°	3773.0	851.8	59.4	32.0	16.8	7.6	4.5	0.0	4.5	1.5	0.0
77.5°	1674.7	382.5	39.6	21.3	12.2	6.1	3.1	0.0	3.1	1.5	0.0
80°	423.6	125.0	22.9	15.3	9.2	4.5	1.5	0.0	3.1	3.1	1.5
82.5°	115.8	45.7	16.8	12.2	7.6	4.5	1.5	0.0	3.1	3.1	3.1
85°	45.7	21.3	15.3	12.2	9.2	4.5	1.5	0.0	3.1	3.1	3.1
87.5°	21.3	15.3	15.3	13.7	10.6	4.5	1.5	0.0	3.1	1.5	3.1
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)