

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: P534058

Luminaire Tested: **GALN-SA9C-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50228 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

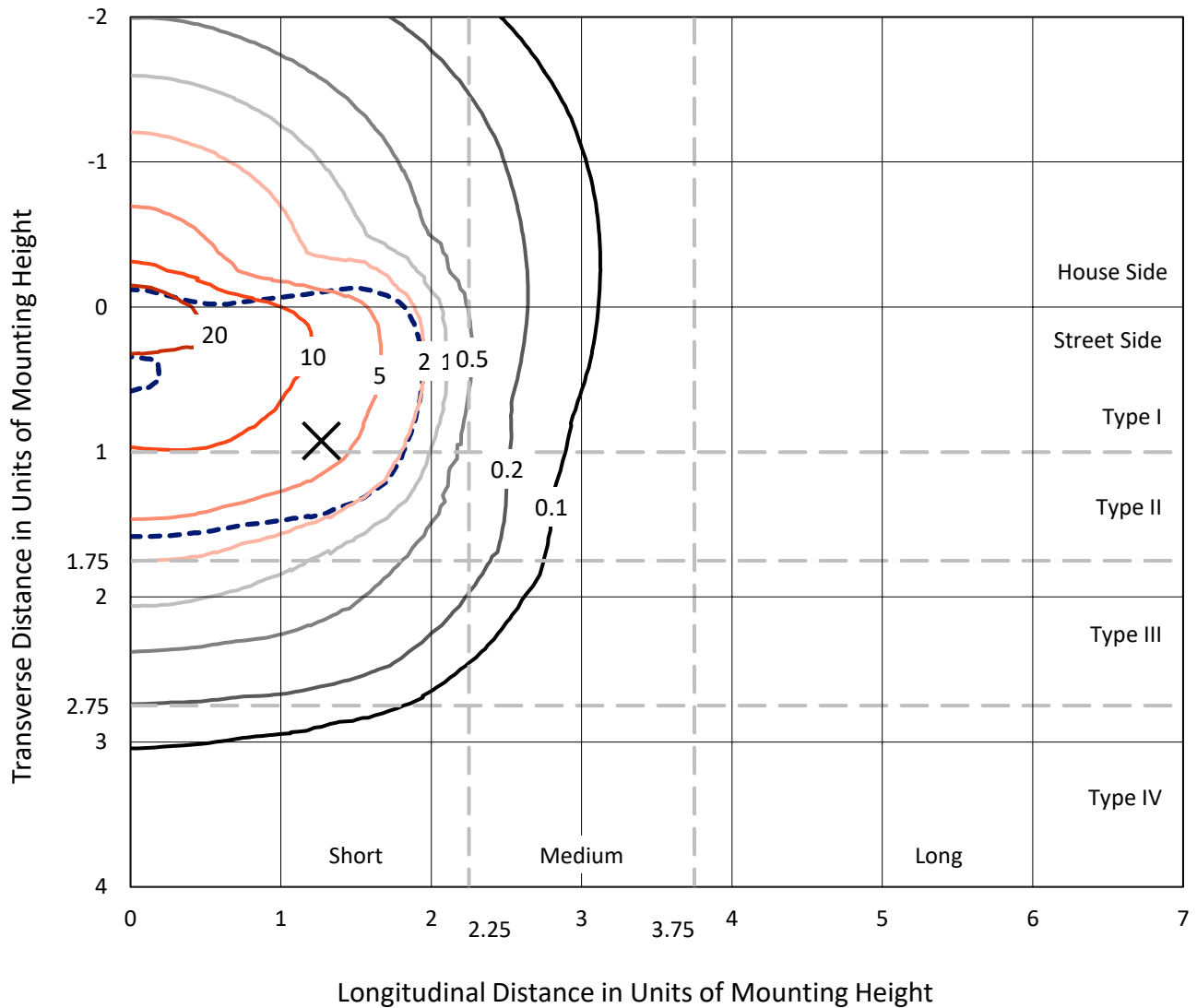
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534058
 CATALOG NUMBER: GALN-SA9C-735-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

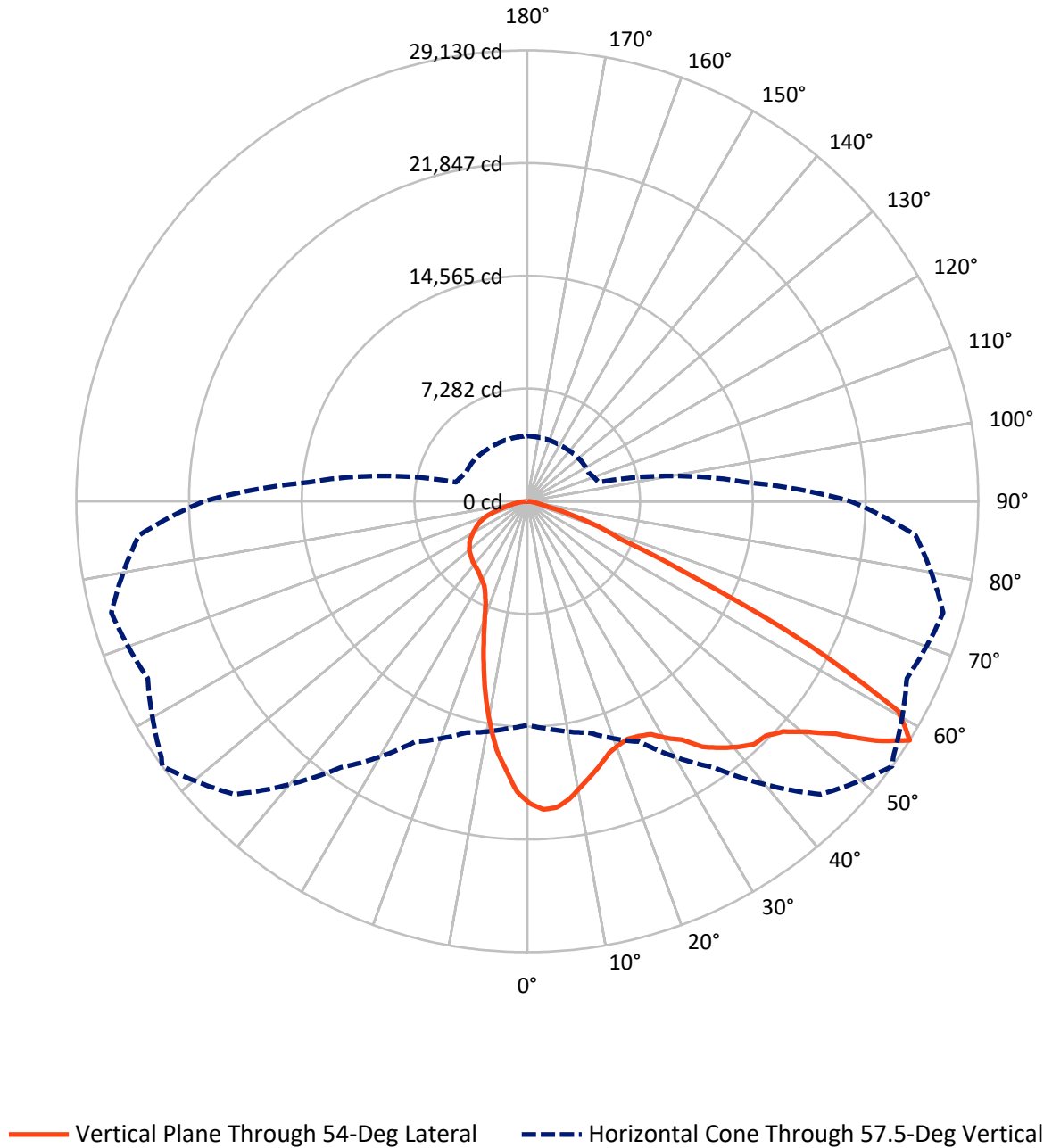
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.2 fc
 Type II - Short - N/A

REPORT NUMBER: P534058
CATALOG NUMBER: GALN-SA9C-735-U-SL3-GRSWH

Luminous Intensity Polar Plot



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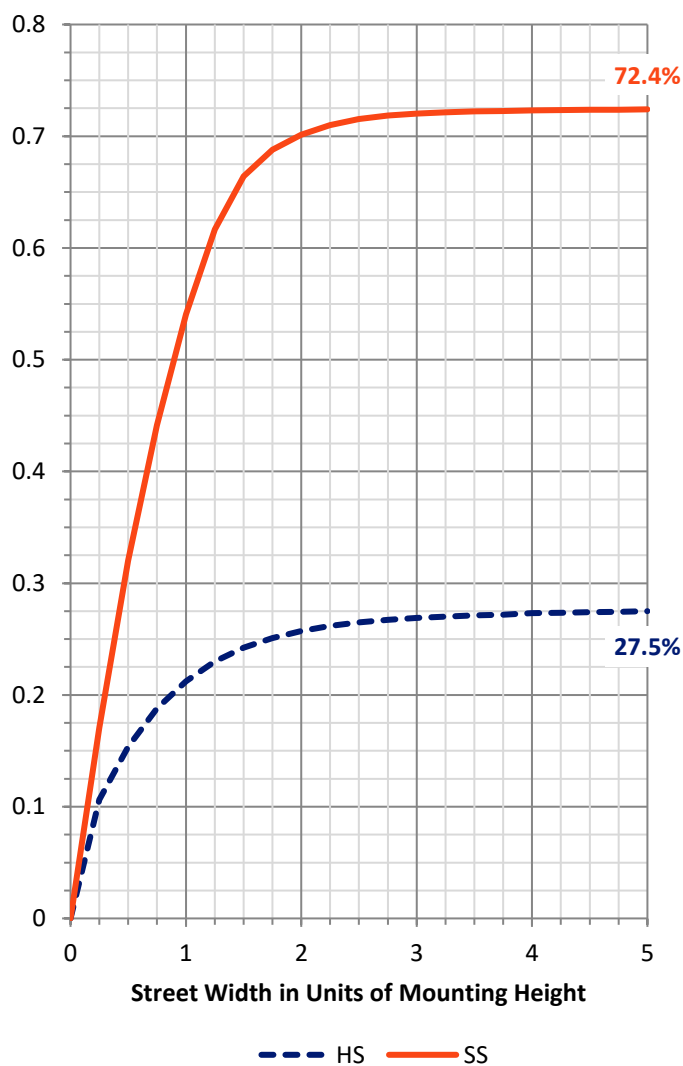
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13895.9	0.0	13895.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	36332.1	0.0	36332.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	50228.0	0.0	50228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1683.7	3.4
10°-20°	3898.3	7.8
20°-30°	5477.2	10.9
30°-40°	7657.2	15.2
40°-50°	10366.3	20.6
50°-60°	12626.6	25.1
60°-70°	6576.5	13.1
70°-80°	1685.2	3.4
80°-90°	257.1	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°	50228.0	100.0
0°-180°	50228.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534058

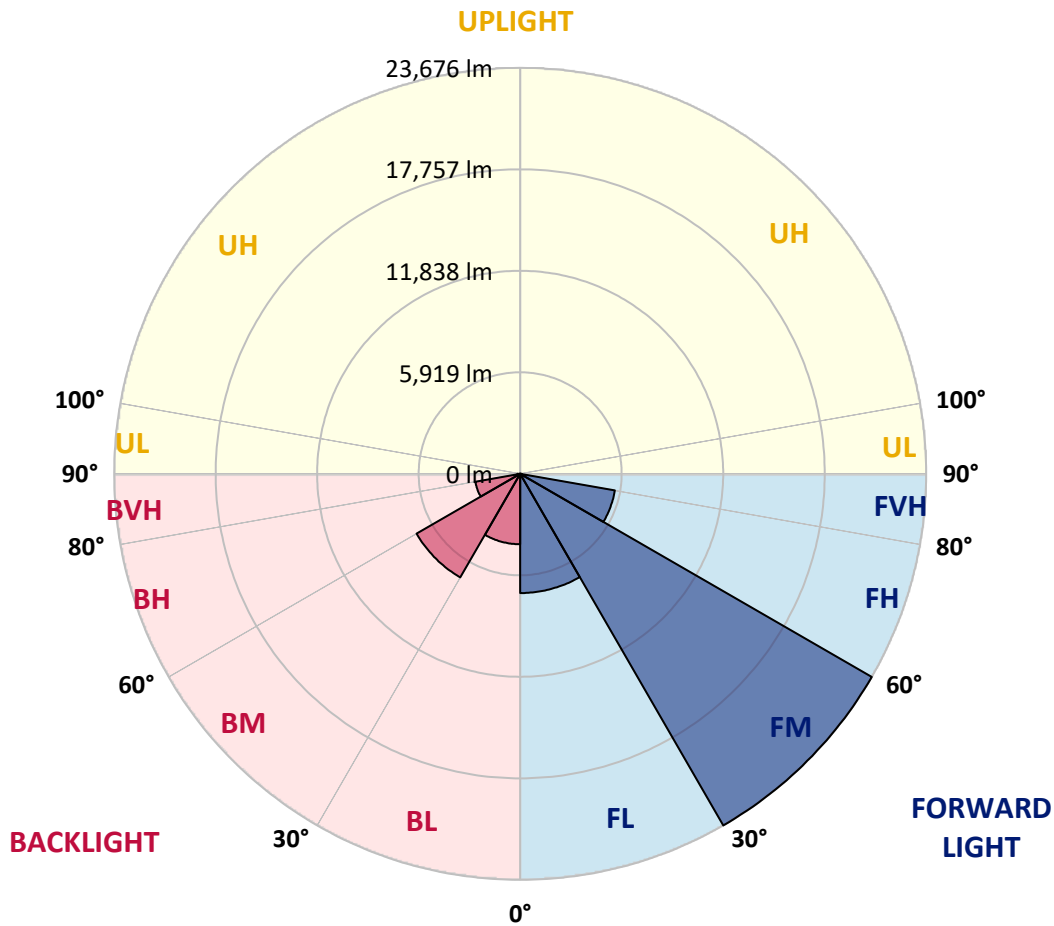
CATALOG NUMBER: GALN-SA9C-735-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6952.2	13.8			
FM (30°-60°)	23675.9	47.1			
FH (60°-80°)	5606.9	11.2			G3/7500
FVH (80°-90°)	97.1	0.2			G1/100
BL (0°-30°)	4106.9	8.2	B4/5000		
BM (30°-60°)	6974.2	13.9	B4/8500		
BH (60°-80°)	2654.8	5.3	B4/5000		G4/5000
BVH (80°-90°)	159.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





REPORT NUMBER: P534058

CATALOG NUMBER: GALN-SA9C-735-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	19523.0	19523.0	19523.0	19523.0	19523.0	19523.0	19523.0	19523.0	19523.0	19523.0	19523.0
2.5°	20078.3	20000.8	20013.7	20117.0	19987.9	19936.2	19936.2	19684.4	19703.8	19529.5	19484.3
5°	19613.4	19432.7	19555.3	19710.3	19736.1	19787.7	19871.7	19807.1	19626.3	19439.1	19135.7
7.5°	18399.7	18561.1	18606.3	18716.0	18948.5	19161.5	19426.2	19245.4	19239.0	19051.8	18871.0
10°	17334.5	17237.6	17482.9	17644.3	18031.7	18386.8	18793.5	18774.1	18871.0	18657.9	18348.1
12.5°	16275.7	16198.2	16314.4	16682.4	17224.7	17741.2	18225.4	18044.6	18561.1	18522.4	17857.4
15°	15152.3	15210.4	15378.3	15720.4	16430.6	17050.4	17663.7	17670.2	18128.5	18283.5	17392.6
17.5°	14364.7	14300.1	14513.2	15023.2	15655.9	16398.3	17095.6	17237.6	17941.3	18031.7	17250.5
20°	13777.2	13867.6	14145.2	14403.4	15132.9	16030.3	16818.0	16869.6	17902.6	18147.9	17024.6
22.5°	13635.1	13583.5	13673.9	14093.5	14693.9	15668.8	16669.5	16863.2	17896.1	18109.2	16598.5
25°	13486.7	13654.5	13648.1	14067.7	14506.7	15378.3	16792.1	17005.2	18238.3	18309.3	16656.6
27.5°	13822.4	13803.0	13983.8	14016.1	14558.4	15455.7	17050.4	17211.8	18806.4	18748.3	16701.8
30°	14158.1	14061.2	14171.0	14551.9	14803.7	15901.2	17760.6	17747.6	19542.4	19503.7	16843.8
32.5°	14571.3	14526.1	14597.1	14932.8	15358.9	16495.2	18361.0	18741.9	20291.3	20536.6	17334.5
35°	14648.7	14836.0	15003.8	15455.7	16062.6	17457.1	19490.8	19807.1	21156.4	21924.7	18270.6
37.5°	15139.4	15210.4	15604.2	16404.8	16960.0	18741.9	20207.4	20407.5	21944.1	22815.6	19258.4
40°	15662.3	15746.3	16340.2	17179.5	17941.3	19581.2	20878.8	20943.4	22195.8	23500.0	19904.0
42.5°	16372.5	16450.0	17037.5	18089.8	19109.9	20297.8	21472.8	21543.8	22176.5	24287.6	20930.5
45°	17108.5	17295.7	17986.5	19180.9	20097.6	21137.1	21608.3	21898.9	22357.2	24991.3	21763.3
47.5°	18141.5	18315.8	18883.9	20052.4	21124.1	21873.0	22234.6	22518.6	22789.8	25604.6	22299.1
50°	19239.0	19271.3	19962.1	21020.8	21808.5	22705.9	23403.1	23500.0	23357.9	26314.8	23209.4
52.5°	20046.0	20149.3	20685.1	21718.1	22893.1	23997.1	24952.6	25055.9	24778.3	26579.5	23519.3
55°	18709.6	18651.5	19523.0	20898.2	23622.6	25921.0	27309.0	27386.5	25811.2	27399.4	24532.9
57.5°	14461.5	14739.1	15481.6	17140.8	20988.6	26773.2	29129.6	28852.0	27050.8	27812.6	25178.5
60°	10510.4	10445.9	10943.0	12053.4	15817.3	23073.9	27541.4	27825.5	26037.2	25068.8	20762.6
62.5°	8560.7	8470.3	8509.1	8547.8	10207.0	15313.7	20388.2	20381.7	20052.4	18018.8	14003.1
65°	6843.4	7056.4	7075.8	7366.3	7579.4	9148.2	11814.5	12447.2	10839.7	8890.0	6449.6
67.5°	5158.4	5080.9	5339.1	6372.1	6772.4	6604.5	6449.6	6520.6	4635.4	3344.2	3150.5
70°	3040.8	3008.5	3318.4	4441.8	5578.0	5248.8	4861.4	4867.9	3182.8	2337.1	2601.8
72.5°	1665.7	1659.2	1723.8	2253.2	3169.9	3292.6	2918.1	3008.5	1898.1	1891.6	2033.7
75°	929.7	910.3	890.9	994.2	1142.7	1207.3	1233.1	1246.0	1304.1	1459.1	1517.2
77.5°	342.2	329.3	329.3	380.9	484.2	606.9	768.3	781.2	923.2	1058.8	1116.9
80°	116.2	129.1	174.3	238.9	322.8	432.6	522.9	535.9	652.1	742.4	761.8
82.5°	71.0	77.5	116.2	167.9	232.4	303.4	387.4	393.8	484.2	542.3	568.1
85°	32.3	38.7	64.6	103.3	148.5	200.1	206.6	206.6	200.1	206.6	193.7
87.5°	0.0	0.0	12.9	12.9	12.9	19.4	25.8	19.4	32.3	38.7	38.7
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: P534058

CATALOG NUMBER: GALN-SA9C-735-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19523.0	19523.0	19523.0	19523.0	19523.0	19523.0	19523.0	19523.0	19523.0	19523.0	19523.0
2.5°	19348.7	19277.7	19058.2	18864.5	18806.4	18548.2	18167.3	18212.5	17934.9	18064.0	17928.4
5°	19084.0	18845.2	18283.5	18044.6	17418.4	17134.3	16940.6	16456.4	16230.5	16185.3	15991.6
7.5°	18406.2	18257.7	17554.0	16908.4	16243.4	15675.3	14945.7	14448.6	14093.5	13996.7	13712.6
10°	17870.3	17541.0	16566.2	15584.9	14635.8	13648.1	12699.0	11956.6	11595.0	11175.4	11033.4
12.5°	17340.9	16843.8	15526.8	14267.8	13041.2	11795.2	10646.0	9742.2	8954.5	8767.3	8702.7
15°	17011.7	16146.5	14597.1	13079.9	11336.8	9709.9	8560.7	7966.7	7482.5	7282.4	7424.4
17.5°	16579.1	15572.0	13706.2	11685.4	9768.0	8270.2	7308.2	6940.2	6765.9	6785.3	6727.2
20°	16036.8	15029.6	12537.6	10420.0	8367.0	7172.7	6623.9	6488.3	6514.1	6559.3	6540.0
22.5°	15649.4	14371.1	11691.9	9128.8	7230.8	6565.8	6339.8	6243.0	6326.9	6365.7	6333.4
25°	15352.5	13809.5	10665.4	7986.1	6572.2	6223.6	6120.3	6113.9	6243.0	6294.6	6262.4
27.5°	15081.3	13286.5	9645.3	7114.6	6133.2	5958.9	5926.6	6004.1	6088.0	6139.7	6184.9
30°	14919.9	12886.2	8689.8	6385.0	5913.7	5829.8	5771.7	5842.7	5887.9	5939.6	5913.7
32.5°	15074.8	12602.2	7766.6	5971.8	5733.0	5649.0	5726.5	5681.3	5758.8	5804.0	5733.0
35°	15559.0	12350.4	7108.1	5752.3	5526.4	5558.6	5571.6	5552.2	5584.5	5545.7	5629.7
37.5°	16036.8	12260.0	6501.2	5565.1	5429.5	5429.5	5416.6	5377.9	5442.4	5429.5	5468.3
40°	16643.7	12318.1	5984.7	5365.0	5339.1	5326.2	5274.6	5268.1	5242.3	5248.8	5261.7
42.5°	17173.1	12447.2	5687.8	5235.8	5255.2	5281.0	5184.2	5106.7	5139.0	5074.4	5074.4
45°	17734.7	12563.4	5423.1	5145.5	5126.1	5119.6	5042.2	4997.0	4971.1	4977.6	5035.7
47.5°	18619.2	12731.3	5222.9	5022.8	5035.7	4938.9	4919.5	4861.4	4887.2	4926.0	4932.4
50°	19245.4	13086.4	5068.0	4880.8	4926.0	4861.4	4745.2	4719.4	4719.4	4783.9	4771.0
52.5°	19684.4	13583.5	4919.5	4725.8	4745.2	4693.5	4654.8	4596.7	4558.0	4648.3	4693.5
55°	21027.3	14409.9	4880.8	4596.7	4590.2	4538.6	4467.6	4409.5	4390.1	4403.0	4493.4
57.5°	20898.2	14151.6	4758.1	4370.7	4357.8	4286.8	4215.8	4196.4	4190.0	4202.9	4228.7
60°	16966.5	10452.3	4248.1	4112.5	4093.1	4080.2	4009.2	3931.7	3893.0	3931.7	3899.4
62.5°	11227.0	6998.3	3744.5	3802.6	3815.5	3783.2	3667.0	3589.6	3602.5	3647.7	3576.6
65°	5513.5	4112.5	3395.9	3550.8	3563.7	3473.3	3363.6	3273.2	3228.0	3266.8	3234.5
67.5°	3150.5	3144.1	3111.8	3273.2	3266.8	3176.4	3002.1	2924.6	2847.1	2860.0	2840.7
70°	2672.8	2724.4	2789.0	2885.8	2879.4	2776.1	2569.5	2511.4	2401.6	2388.7	2356.5
72.5°	2104.7	2195.1	2337.1	2408.1	2350.0	2220.9	2085.3	1988.5	1891.6	1833.5	1852.9
75°	1562.4	1691.5	1769.0	1814.1	1723.8	1652.7	1543.0	1426.8	1310.6	1258.9	1239.6
77.5°	1136.3	1175.0	1246.0	1278.3	1220.2	1149.2	1084.6	968.4	858.7	787.6	768.3
80°	794.1	819.9	871.6	871.6	871.6	839.3	755.4	639.1	568.1	503.6	490.7
82.5°	555.2	581.0	632.7	606.9	600.4	561.7	510.0	419.6	342.2	297.0	284.1
85°	193.7	213.0	258.2	309.9	329.3	322.8	290.5	232.4	180.8	148.5	135.6
87.5°	45.2	45.2	51.6	45.2	45.2	51.6	45.2	45.2	45.2	32.3	25.8
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)