

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: P532316

Luminaire Tested: **GALN-SA7C-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532316
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-SA7C-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 32919 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 377
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



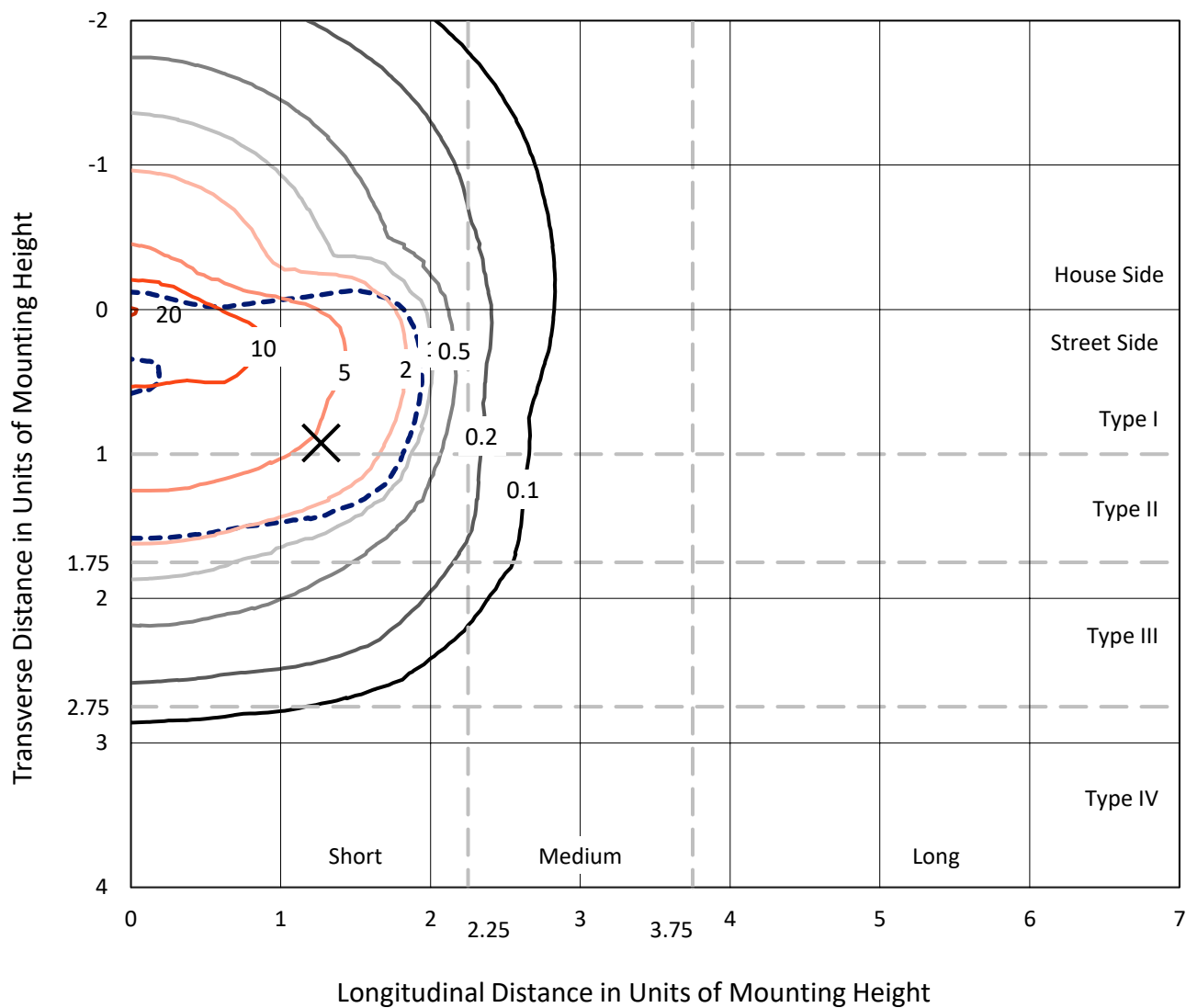
REPORT NUMBER: P532316

CATALOG NUMBER: GALN-SA7C-830-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

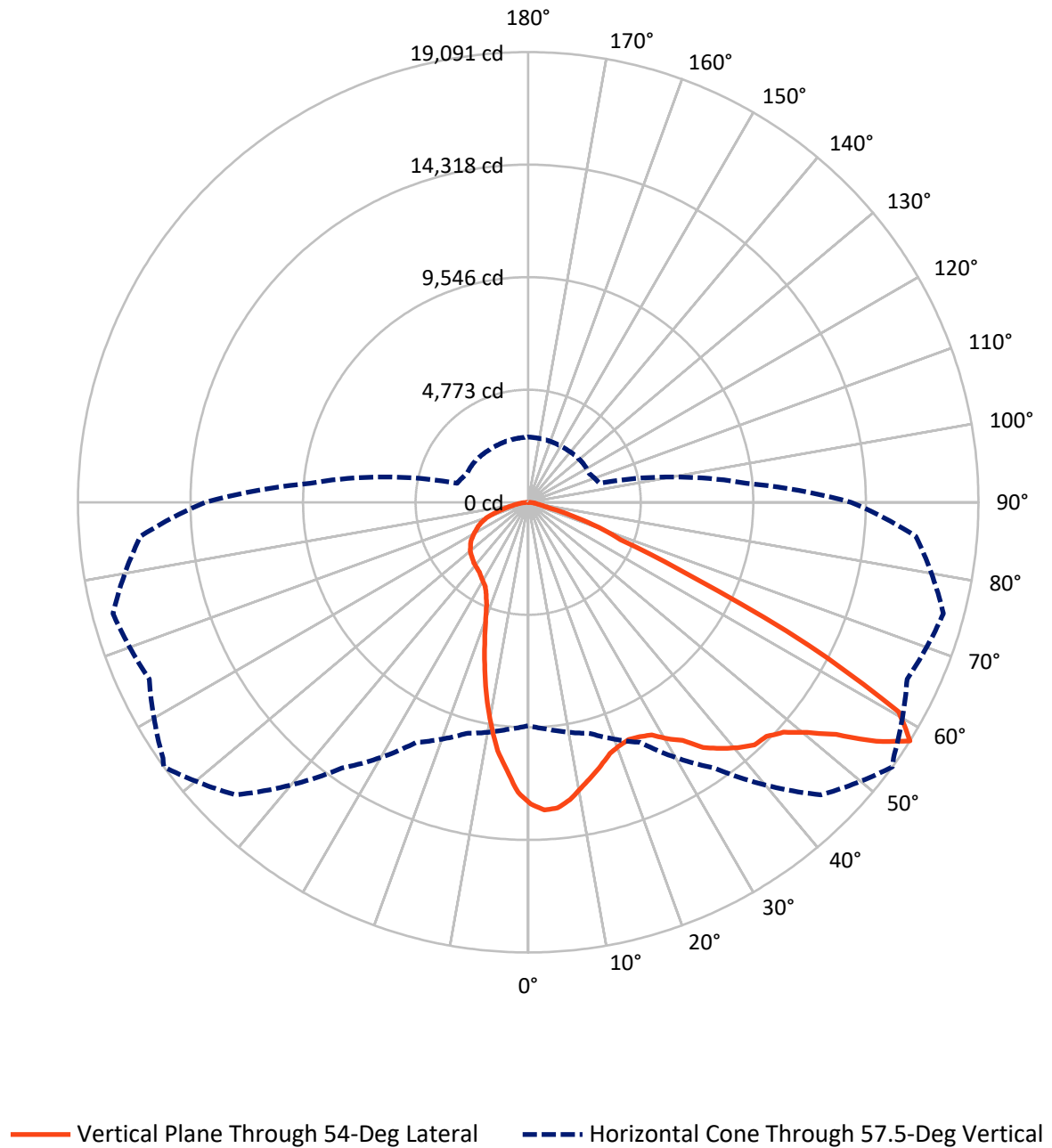


Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

REPORT NUMBER: P532316

CATALOG NUMBER: GALN-SA7C-830-U-SL3-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P532316

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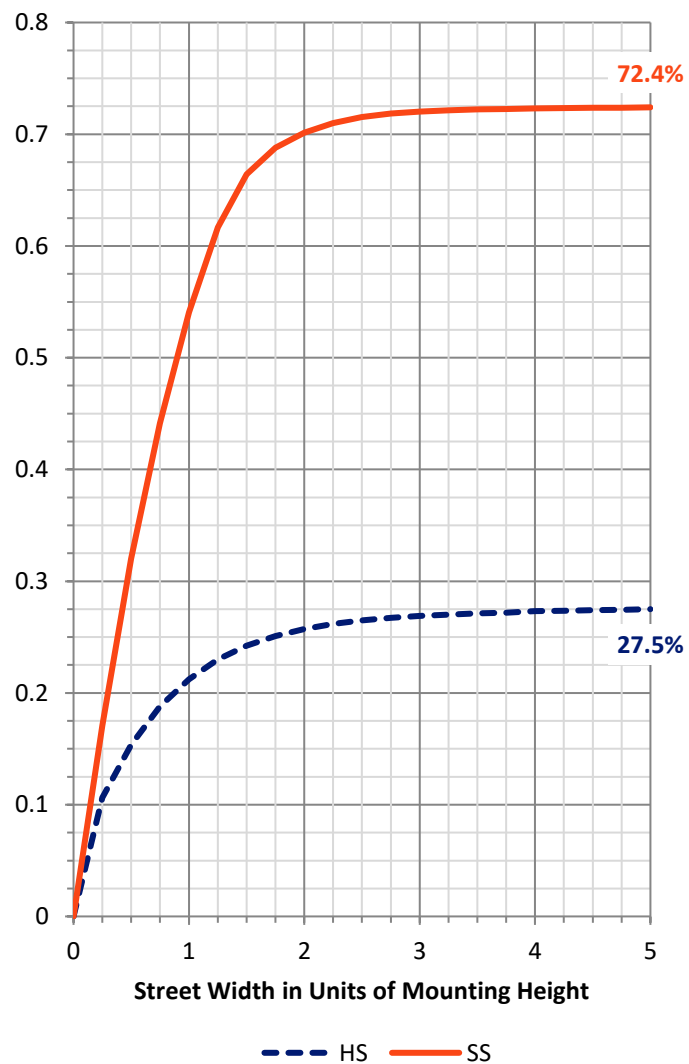
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9107.2	0.0	9107.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	23811.8	0.0	23811.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	32919.0	0.0	32919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1103.5	3.4
10°-20°	2554.9	7.8
20°-30°	3589.7	10.9
30°-40°	5018.4	15.2
40°-50°	6794.0	20.6
50°-60°	8275.4	25.1
60°-70°	4310.2	13.1
70°-80°	1104.4	3.4
80°-90°	168.5	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°	32919.0	100.0
0°-180°	32919.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532316

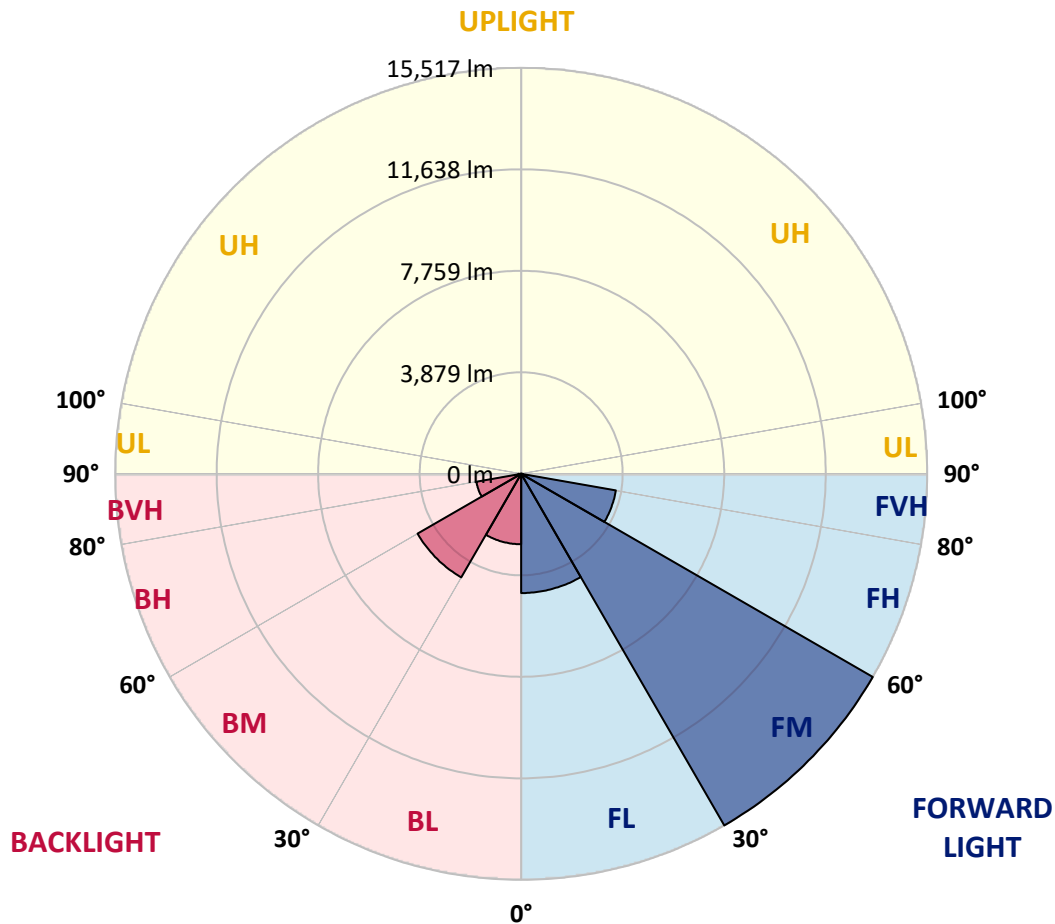
CATALOG NUMBER: GALN-SA7C-830-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4556.4	13.8			
FM	(30°-60°)	15517.0	47.1			
FH	(60°-80°)	3674.7	11.2			G2/5000
FVH	(80°-90°)	63.7	0.2			G1/100
BL	(0°-30°)	2691.7	8.2	B4/5000		
BM	(30°-60°)	4570.8	13.9	B3/5000		
BH	(60°-80°)	1739.9	5.3	B3/2500		G3/2500
BVH	(80°-90°)	104.8	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-G3

Type II Short



REPORT NUMBER: P532316

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12795.2	12795.2	12795.2	12795.2	12795.2	12795.2	12795.2	12795.2	12795.2	12795.2	12795.2
2.5°	13159.1	13108.3	13116.8	13184.5	13099.9	13066.0	13066.0	12901.0	12913.7	12799.5	12769.9
5°	12854.5	12736.0	12816.4	12917.9	12934.9	12968.7	13023.7	12981.4	12862.9	12740.2	12541.4
7.5°	12059.0	12164.8	12194.4	12266.3	12418.7	12558.3	12731.8	12613.3	12609.1	12486.4	12367.9
10°	11360.9	11297.4	11458.2	11564.0	11817.8	12050.5	12317.1	12304.4	12367.9	12228.3	12025.2
12.5°	10666.9	10616.2	10692.3	10933.5	11288.9	11627.4	11944.8	11826.3	12164.8	12139.4	11703.6
15°	9930.7	9968.8	10078.8	10303.0	10768.5	11174.7	11576.6	11580.9	11881.3	11982.8	11398.9
17.5°	9414.5	9372.2	9511.8	9846.1	10260.7	10747.3	11204.3	11297.4	11758.6	11817.8	11305.8
20°	9029.4	9088.7	9270.6	9439.9	9918.0	10506.1	11022.4	11056.2	11733.2	11894.0	11157.8
22.5°	8936.4	8902.5	8961.7	9236.8	9630.3	10269.2	10925.0	11052.0	11729.0	11868.6	10878.5
25°	8839.0	8949.1	8944.8	9219.8	9507.6	10078.8	11005.4	11145.1	11953.2	11999.8	10916.6
27.5°	9059.1	9046.4	9164.8	9186.0	9541.4	10129.6	11174.7	11280.5	12325.6	12287.5	10946.2
30°	9279.1	9215.6	9287.5	9537.2	9702.2	10421.5	11640.1	11631.7	12807.9	12782.5	11039.3
32.5°	9549.9	9520.3	9566.8	9786.8	10066.1	10810.8	12033.6	12283.3	13298.8	13459.5	11360.9
35°	9600.7	9723.4	9833.4	10129.6	10527.3	11441.2	12774.1	12981.4	13865.7	14369.3	11974.4
37.5°	9922.2	9968.8	10226.9	10751.6	11115.4	12283.3	13243.7	13374.9	14381.9	14953.2	12621.8
40°	10265.0	10320.0	10709.2	11259.3	11758.6	12833.3	13683.8	13726.1	14547.0	15401.7	13044.9
42.5°	10730.4	10781.2	11166.2	11855.9	12524.4	13303.0	14073.1	14119.6	14534.3	15917.9	13717.6
45°	11212.8	11335.5	11788.2	12571.0	13171.8	13853.0	14161.9	14352.3	14652.7	16379.1	14263.5
47.5°	11889.8	12004.0	12376.3	13142.2	13844.6	14335.4	14572.4	14758.5	14936.2	16781.1	14614.7
50°	12609.1	12630.2	13083.0	13776.9	14293.1	14881.2	15338.2	15401.7	15308.6	17246.5	15211.3
52.5°	13138.0	13205.7	13556.9	14233.9	15003.9	15727.5	16353.7	16421.4	16239.5	17420.0	15414.4
55°	12262.1	12224.0	12795.2	13696.5	15482.1	16988.4	17898.1	17948.9	16916.5	17957.3	16078.7
57.5°	9478.0	9659.9	10146.5	11233.9	13755.7	17546.9	19091.3	18909.4	17728.9	18228.1	16501.8
60°	6888.4	6846.1	7171.9	7899.7	10366.5	15122.4	18050.4	18236.6	17064.5	16429.9	13607.6
62.5°	5610.6	5551.4	5576.8	5602.1	6689.6	10036.5	13362.2	13358.0	13142.2	11809.4	9177.5
65°	4485.1	4624.7	4637.4	4827.8	4967.5	5995.7	7743.2	8157.8	7104.2	5826.4	4227.0
67.5°	3380.8	3330.0	3499.2	4176.2	4438.6	4328.5	4227.0	4273.5	3038.0	2191.8	2064.8
70°	1992.9	1971.8	2174.9	2911.1	3655.8	3440.0	3186.1	3190.3	2086.0	1531.7	1705.2
72.5°	1091.7	1087.4	1129.7	1476.7	2077.5	2157.9	1912.5	1971.8	1244.0	1239.8	1332.8
75°	609.3	596.6	583.9	651.6	748.9	791.2	808.2	816.6	854.7	956.3	994.3
77.5°	224.3	215.8	215.8	249.6	317.3	397.7	503.5	512.0	605.1	693.9	732.0
80°	76.2	84.6	114.2	156.6	211.6	283.5	342.7	351.2	427.4	486.6	499.3
82.5°	46.5	50.8	76.2	110.0	152.3	198.9	253.9	258.1	317.3	355.4	372.3
85°	21.2	25.4	42.3	67.7	97.3	131.2	135.4	135.4	131.2	135.4	126.9
87.5°	0.0	0.0	8.5	8.5	8.5	12.7	16.9	12.7	21.2	25.4	25.4
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: P532316

CATALOG NUMBER: GALN-SA7C-830-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12795.2	12795.2	12795.2	12795.2	12795.2	12795.2	12795.2	12795.2	12795.2	12795.2	12795.2
2.5°	12681.0	12634.5	12490.6	12363.7	12325.6	12156.3	11906.7	11936.3	11754.4	11839.0	11750.1
5°	12507.5	12351.0	11982.8	11826.3	11415.9	11229.7	11102.7	10785.4	10637.3	10607.7	10480.8
7.5°	12063.2	11965.9	11504.7	11081.6	10645.8	10273.4	9795.3	9469.5	9236.8	9173.3	8987.1
10°	11712.0	11496.3	10857.3	10214.2	9592.2	8944.8	8322.8	7836.2	7599.3	7324.3	7231.2
12.5°	11365.1	11039.3	10176.1	9351.0	8547.1	7730.5	6977.3	6384.9	5868.7	5746.0	5703.7
15°	11149.3	10582.3	9566.8	8572.5	7430.0	6363.8	5610.6	5221.3	4904.0	4772.8	4865.9
17.5°	10865.8	10205.7	8982.9	7658.5	6401.9	5420.2	4789.8	4548.6	4434.3	4447.0	4408.9
20°	10510.4	9850.3	8217.0	6829.2	5483.7	4700.9	4341.2	4252.4	4269.3	4298.9	4286.2
22.5°	10256.5	9418.7	7662.8	5983.0	4739.0	4303.2	4155.1	4091.6	4146.6	4172.0	4150.8
25°	10061.9	9050.6	6990.0	5234.0	4307.4	4078.9	4011.2	4007.0	4091.6	4125.4	4104.3
27.5°	9884.2	8707.9	6321.5	4662.8	4019.7	3905.4	3884.3	3935.0	3990.0	4023.9	4053.5
30°	9778.4	8445.5	5695.2	4184.7	3875.8	3820.8	3782.7	3829.3	3858.9	3892.7	3875.8
32.5°	9879.9	8259.4	5090.2	3913.9	3757.3	3702.3	3753.1	3723.5	3774.3	3803.9	3757.3
35°	10197.3	8094.3	4658.6	3770.0	3621.9	3643.1	3651.6	3638.9	3660.0	3634.6	3689.6
37.5°	10510.4	8035.1	4260.8	3647.3	3558.5	3558.5	3550.0	3524.6	3566.9	3558.5	3583.9
40°	10908.1	8073.2	3922.3	3516.2	3499.2	3490.8	3456.9	3452.7	3435.8	3440.0	3448.5
42.5°	11255.1	8157.8	3727.7	3431.5	3444.2	3461.1	3397.7	3346.9	3368.1	3325.7	3325.7
45°	11623.2	8234.0	3554.2	3372.3	3359.6	3355.4	3304.6	3275.0	3258.0	3262.3	3300.4
47.5°	12202.9	8344.0	3423.1	3291.9	3300.4	3236.9	3224.2	3186.1	3203.0	3228.4	3232.7
50°	12613.3	8576.7	3321.5	3198.8	3228.4	3186.1	3110.0	3093.0	3093.0	3135.3	3126.9
52.5°	12901.0	8902.5	3224.2	3097.3	3110.0	3076.1	3050.7	3012.6	2987.2	3046.5	3076.1
55°	13781.1	9444.1	3198.8	3012.6	3008.4	2974.6	2928.0	2889.9	2877.2	2885.7	2944.9
57.5°	13696.5	9274.9	3118.4	2864.5	2856.1	2809.5	2763.0	2750.3	2746.1	2754.5	2771.5
60°	11119.7	6850.4	2784.1	2695.3	2682.6	2674.1	2627.6	2576.8	2551.4	2576.8	2555.7
62.5°	7358.1	4586.7	2454.1	2492.2	2500.7	2479.5	2403.3	2352.6	2361.0	2390.6	2344.1
65°	3613.5	2695.3	2225.6	2327.2	2335.6	2276.4	2204.5	2145.2	2115.6	2141.0	2119.8
67.5°	2064.8	2060.6	2039.5	2145.2	2141.0	2081.8	1967.5	1916.7	1866.0	1874.4	1861.7
70°	1751.7	1785.6	1827.9	1891.4	1887.1	1819.4	1684.0	1645.9	1574.0	1565.6	1544.4
72.5°	1379.4	1438.6	1531.7	1578.2	1540.2	1455.5	1366.7	1303.2	1239.8	1201.7	1214.4
75°	1024.0	1108.6	1159.4	1189.0	1129.7	1083.2	1011.3	935.1	858.9	825.1	812.4
77.5°	744.7	770.1	816.6	837.8	799.7	753.2	710.8	634.7	562.8	516.2	503.5
80°	520.4	537.4	571.2	571.2	571.2	550.1	495.1	418.9	372.3	330.0	321.6
82.5°	363.9	380.8	414.7	397.7	393.5	368.1	334.3	275.0	224.3	194.6	186.2
85°	126.9	139.6	169.2	203.1	215.8	211.6	190.4	152.3	118.5	97.3	88.9
87.5°	29.6	29.6	33.8	29.6	29.6	33.8	29.6	29.6	29.6	21.2	16.9
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)