

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: P531848

Luminaire Tested: **GALN-SA7A-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531848  
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-SA7A-830-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 615mA 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: 21414 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

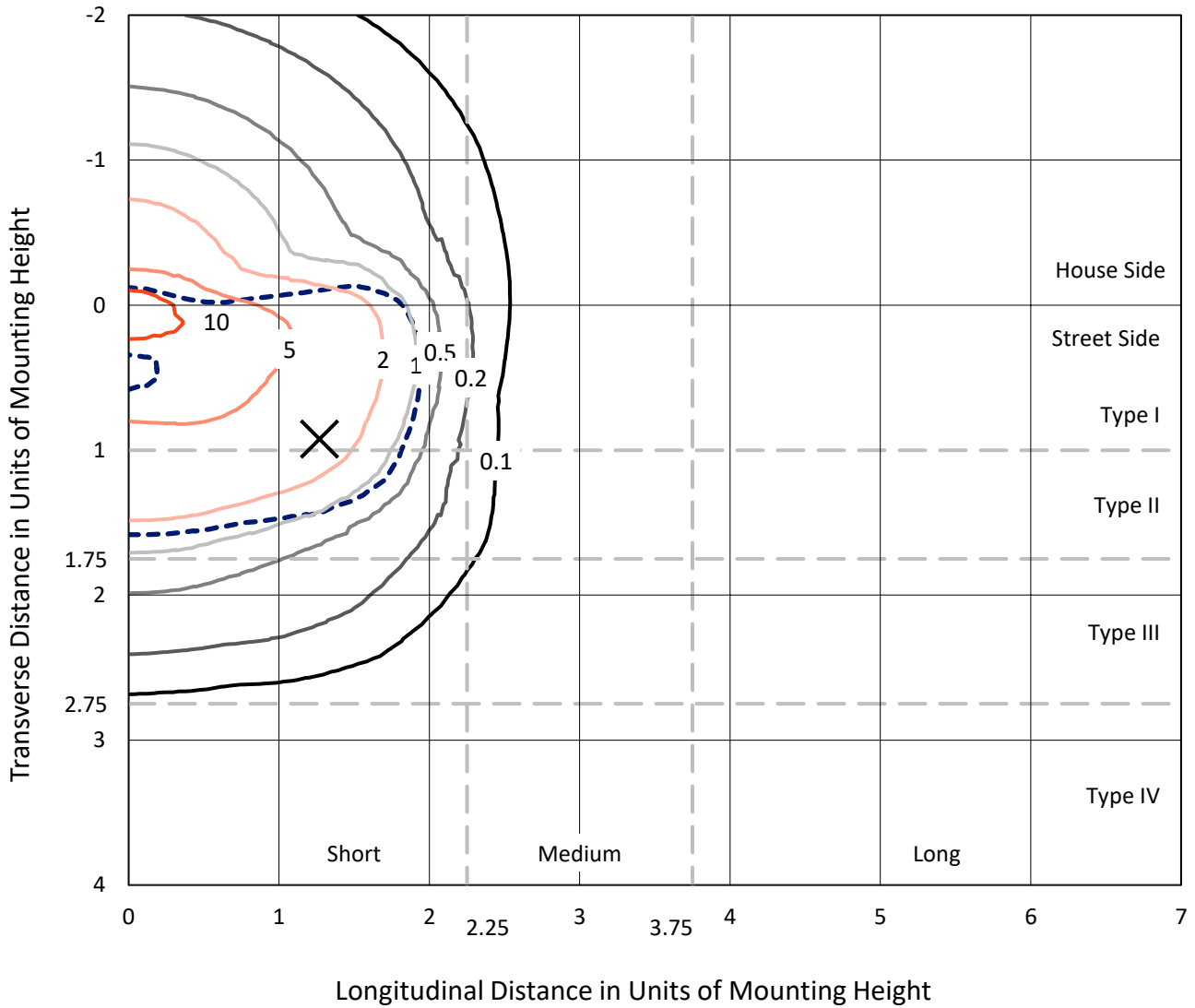
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

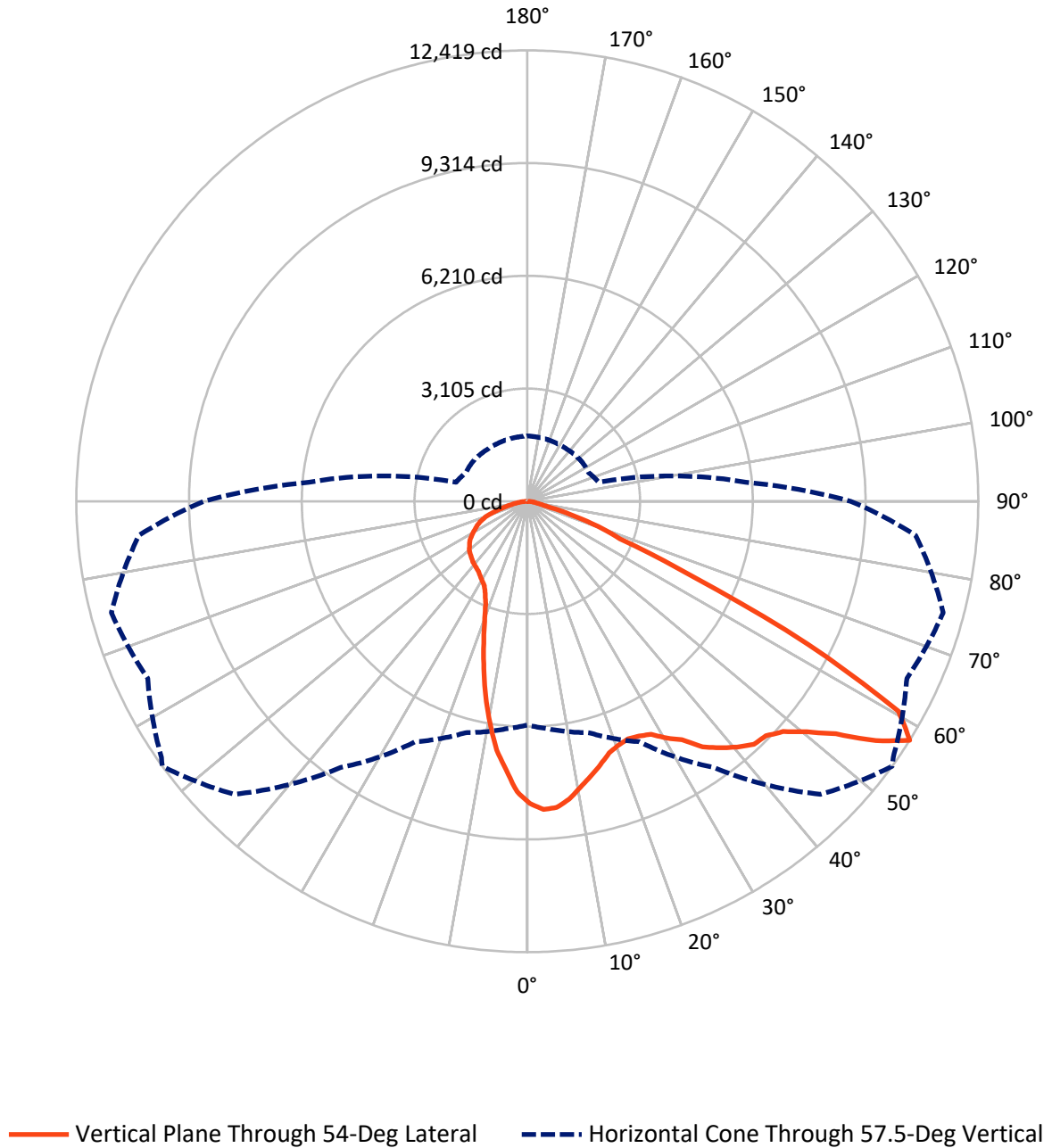
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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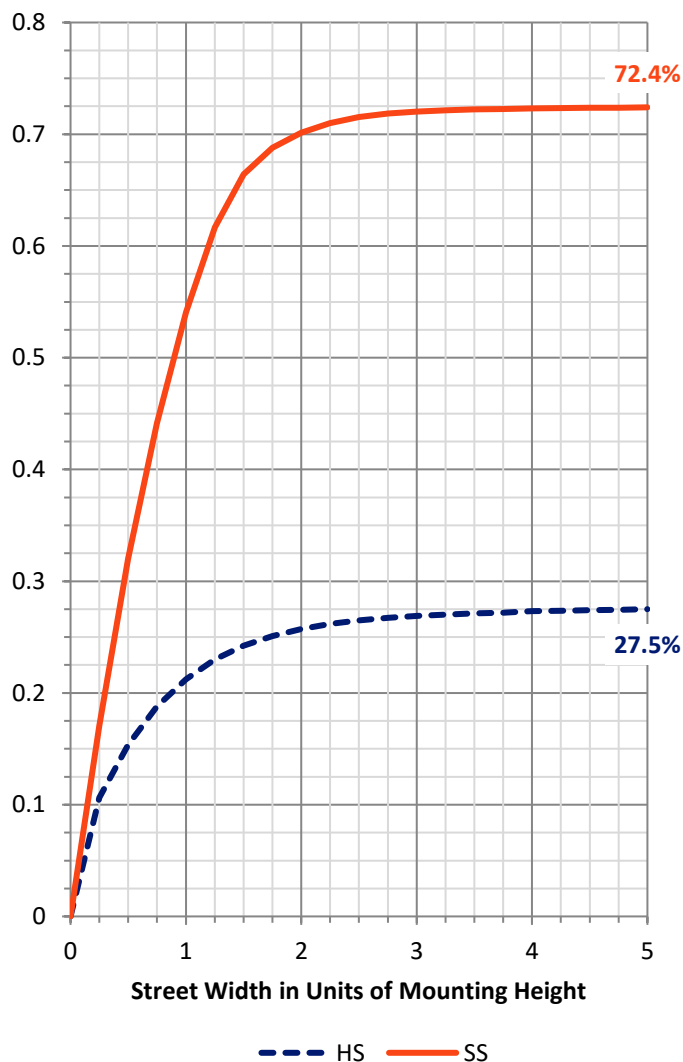
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5924.3	0.0	5924.3
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	15489.7	0.0	15489.7
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	21414.0	0.0	21414.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	717.8	3.4
10°-20°	1662.0	7.8
20°-30°	2335.1	10.9
30°-40°	3264.5	15.2
40°-50°	4419.5	20.6
50°-60°	5383.2	25.1
60°-70°	2803.8	13.1
70°-80°	718.4	3.4
80°-90°	109.6	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°	21414.0	100.0
0°-180°	21414.0	100.0



REPORT NUMBER: P531848

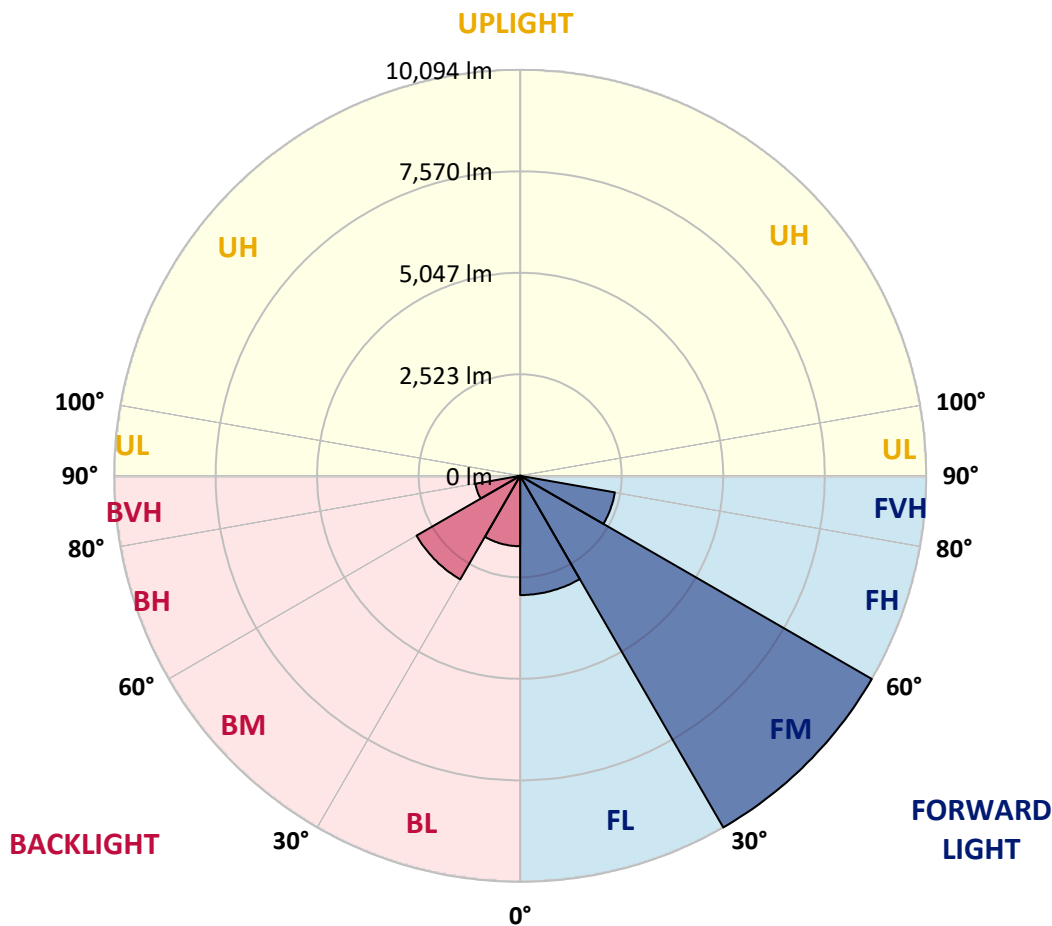
CATALOG NUMBER: GALN-SA7A-830-U-SL3-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2964.0	13.8			
FM (30°-60°)	10093.9	47.1			
FH (60°-80°)	2390.4	11.2			G2/5000
FVH (80°-90°)	41.4	0.2			G1/100
BL (0°-30°)	1750.9	8.2	B3/2500		
BM (30°-60°)	2973.3	13.9	B3/5000		
BH (60°-80°)	1131.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	68.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4
2.5°	8560.1	8527.1	8532.6	8576.6	8521.6	8499.5	8499.5	8392.2	8400.4	8326.1	8306.9
5°	8361.9	8284.8	8337.1	8403.2	8414.2	8436.2	8472.0	8444.5	8367.4	8287.6	8158.2
7.5°	7844.5	7913.3	7932.5	7979.3	8078.4	8169.2	8282.1	8205.0	8202.3	8122.4	8045.4
10°	7390.3	7349.0	7453.6	7522.4	7687.6	7838.9	8012.4	8004.1	8045.4	7954.5	7822.4
12.5°	6938.9	6905.9	6955.4	7112.3	7343.5	7563.7	7770.1	7693.1	7913.3	7896.7	7613.2
15°	6460.0	6484.7	6556.3	6702.2	7005.0	7269.2	7530.7	7533.4	7728.8	7794.9	7415.1
17.5°	6124.2	6096.7	6187.5	6404.9	6674.7	6991.2	7288.5	7349.0	7649.0	7687.6	7354.5
20°	5873.7	5912.2	6030.6	6140.7	6451.7	6834.3	7170.1	7192.1	7632.5	7737.1	7258.2
22.5°	5813.2	5791.1	5829.7	6008.6	6264.6	6680.2	7106.8	7189.4	7629.8	7720.6	7076.5
25°	5749.8	5821.4	5818.7	5997.6	6184.7	6556.3	7159.1	7249.9	7775.6	7805.9	7101.3
27.5°	5893.0	5884.7	5961.8	5975.5	6206.8	6589.3	7269.2	7338.0	8017.9	7993.1	7120.6
30°	6036.1	5994.8	6041.6	6204.0	6311.3	6779.3	7572.0	7566.5	8331.6	8315.1	7181.1
32.5°	6212.3	6193.0	6223.3	6366.4	6548.1	7032.5	7827.9	7990.3	8650.9	8755.5	7390.3
35°	6245.3	6325.1	6396.7	6589.3	6848.1	7442.6	8309.6	8444.5	9019.7	9347.3	7789.4
37.5°	6454.5	6484.7	6652.6	6993.9	7230.7	7990.3	8615.1	8700.5	9355.5	9727.1	8210.5
40°	6677.4	6713.2	6966.4	7324.2	7649.0	8348.1	8901.4	8928.9	9462.9	10018.9	8485.8
42.5°	6980.2	7013.2	7263.7	7712.3	8147.2	8653.7	9154.6	9184.9	9454.6	10354.7	8923.4
45°	7294.0	7373.8	7668.3	8177.5	8568.3	9011.5	9212.4	9336.3	9531.7	10654.7	9278.5
47.5°	7734.4	7808.7	8050.9	8549.1	9006.0	9325.3	9479.4	9600.5	9716.1	10916.2	9506.9
50°	8202.3	8216.0	8510.5	8961.9	9297.7	9680.3	9977.6	10018.9	9958.3	11218.9	9895.0
52.5°	8546.3	8590.4	8818.8	9259.2	9760.1	10230.8	10638.2	10682.2	10563.9	11331.8	10027.1
55°	7976.6	7951.8	8323.4	8909.6	10071.2	11051.0	11642.8	11675.8	11004.3	11681.4	10459.3
57.5°	6165.5	6283.8	6600.3	7307.7	8948.2	11414.4	12419.0	12300.7	11532.7	11857.5	10734.5
60°	4481.0	4453.4	4665.4	5138.8	6743.5	9837.2	11741.9	11863.0	11100.6	10687.7	8851.8
62.5°	3649.7	3611.2	3627.7	3644.2	4351.6	6528.8	8692.2	8689.5	8549.1	7682.1	5970.0
65°	2917.6	3008.4	3016.7	3140.5	3231.4	3900.2	5037.0	5306.7	4621.3	3790.1	2749.7
67.5°	2199.2	2166.2	2276.3	2716.7	2887.3	2815.7	2749.7	2780.0	1976.3	1425.8	1343.2
70°	1296.4	1282.6	1414.8	1893.7	2378.1	2237.7	2072.6	2075.3	1357.0	996.4	1109.2
72.5°	710.1	707.4	734.9	960.6	1351.4	1403.7	1244.1	1282.6	809.2	806.5	867.0
75°	396.4	388.1	379.8	423.9	487.2	514.7	525.7	531.2	556.0	622.1	646.8
77.5°	145.9	140.4	140.4	162.4	206.4	258.7	327.5	333.0	393.6	451.4	476.2
80°	49.5	55.0	74.3	101.8	137.6	184.4	222.9	228.5	278.0	316.5	324.8
82.5°	30.3	33.0	49.5	71.6	99.1	129.4	165.1	167.9	206.4	231.2	242.2
85°	13.8	16.5	27.5	44.0	63.3	85.3	88.1	88.1	85.3	88.1	82.6
87.5°	0.0	0.0	5.5	5.5	5.5	8.3	11.0	8.3	13.8	16.5	16.5
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: P531848

CATALOG NUMBER: GALN-SA7A-830-U-SL3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4
2.5°	8249.1	8218.8	8125.2	8042.6	8017.9	7907.8	7745.4	7764.6	7646.3	7701.3	7643.5
5°	8136.2	8034.4	7794.9	7693.1	7426.1	7305.0	7222.4	7016.0	6919.6	6900.4	6817.8
7.5°	7847.2	7783.9	7483.9	7208.6	6925.1	6682.9	6371.9	6160.0	6008.6	5967.3	5846.2
10°	7618.8	7478.4	7062.8	6644.4	6239.8	5818.7	5414.0	5097.5	4943.4	4764.5	4703.9
12.5°	7393.1	7181.1	6619.6	6082.9	5559.9	5028.7	4538.8	4153.4	3817.6	3737.8	3710.3
15°	7252.7	6883.9	6223.3	5576.4	4833.3	4139.7	3649.7	3396.5	3190.1	3104.8	3165.3
17.5°	7068.3	6638.9	5843.4	4981.9	4164.4	3525.9	3115.8	2958.9	2884.6	2892.8	2868.0
20°	6837.1	6407.7	5345.2	4442.4	3567.2	3058.0	2824.0	2766.2	2777.2	2796.5	2788.2
22.5°	6671.9	6126.9	4984.7	3891.9	3082.7	2799.2	2702.9	2661.6	2697.4	2713.9	2700.1
25°	6545.3	5887.5	4547.0	3404.8	2802.0	2653.4	2609.3	2606.6	2661.6	2683.6	2669.9
27.5°	6429.7	5664.5	4112.1	3033.2	2614.8	2540.5	2526.7	2559.8	2595.6	2617.6	2636.8
30°	6360.9	5493.9	3704.8	2722.2	2521.2	2485.5	2460.7	2491.0	2510.2	2532.2	2521.2
32.5°	6426.9	5372.8	3311.2	2546.0	2444.2	2408.4	2441.4	2422.1	2455.2	2474.4	2444.2
35°	6633.4	5265.4	3030.4	2452.4	2356.1	2369.9	2375.4	2367.1	2380.9	2364.3	2400.1
37.5°	6837.1	5226.9	2771.7	2372.6	2314.8	2314.8	2309.3	2292.8	2320.3	2314.8	2331.3
40°	7095.8	5251.7	2551.5	2287.3	2276.3	2270.8	2248.7	2246.0	2235.0	2237.7	2243.2
42.5°	7321.5	5306.7	2424.9	2232.2	2240.5	2251.5	2210.2	2177.2	2190.9	2163.4	2163.4
45°	7561.0	5356.2	2312.0	2193.7	2185.4	2182.7	2149.7	2130.4	2119.4	2122.1	2146.9
47.5°	7938.0	5427.8	2226.7	2141.4	2146.9	2105.6	2097.4	2072.6	2083.6	2100.1	2102.9
50°	8205.0	5579.2	2160.7	2080.8	2100.1	2072.6	2023.0	2012.0	2012.0	2039.6	2034.1
52.5°	8392.2	5791.1	2097.4	2014.8	2023.0	2001.0	1984.5	1959.7	1943.2	1981.8	2001.0
55°	8964.7	6143.4	2080.8	1959.7	1957.0	1935.0	1904.7	1879.9	1871.7	1877.2	1915.7
57.5°	8909.6	6033.3	2028.5	1863.4	1857.9	1827.6	1797.3	1789.1	1786.3	1791.8	1802.8
60°	7233.4	4456.2	1811.1	1753.3	1745.0	1739.5	1709.3	1676.2	1659.7	1676.2	1662.5
62.5°	4786.5	2983.6	1596.4	1621.2	1626.7	1612.9	1563.4	1530.4	1535.9	1555.1	1524.9
65°	2350.6	1753.3	1447.8	1513.8	1519.3	1480.8	1434.0	1395.5	1376.2	1392.7	1379.0
67.5°	1343.2	1340.4	1326.7	1395.5	1392.7	1354.2	1279.9	1246.9	1213.8	1219.3	1211.1
70°	1139.5	1161.5	1189.1	1230.3	1227.6	1183.5	1095.5	1070.7	1023.9	1018.4	1004.6
72.5°	897.3	935.8	996.4	1026.7	1001.9	946.8	889.0	847.8	806.5	781.7	790.0
75°	666.1	721.1	754.2	773.4	734.9	704.6	657.8	608.3	558.7	536.7	528.5
77.5°	484.4	500.9	531.2	545.0	520.2	489.9	462.4	412.9	366.1	335.8	327.5
80°	338.6	349.6	371.6	371.6	371.6	357.8	322.0	272.5	242.2	214.7	209.2
82.5°	236.7	247.7	269.7	258.7	256.0	239.5	217.4	178.9	145.9	126.6	121.1
85°	82.6	90.8	110.1	132.1	140.4	137.6	123.9	99.1	77.1	63.3	57.8
87.5°	19.3	19.3	22.0	19.3	19.3	22.0	19.3	19.3	19.3	13.8	11.0
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)