

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: P647501

Luminaire Tested: **GALN-SA6D-835-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647501  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-835-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25795.2 lumens  
Efficiency: N/A  
Efficacy: 70.1 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): 368  
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

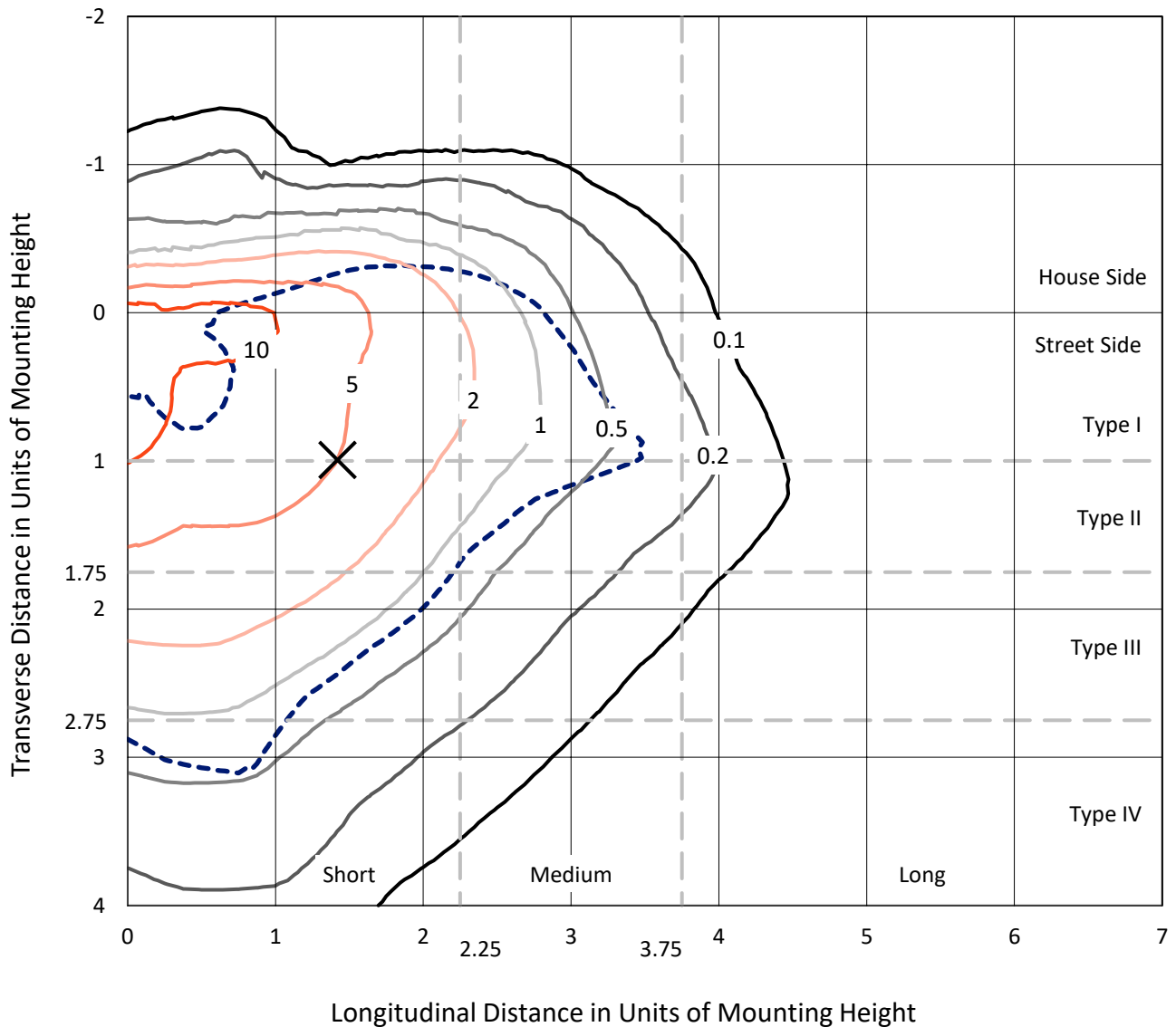




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### Iso-Footcandle Lines of Horizontal Illumination

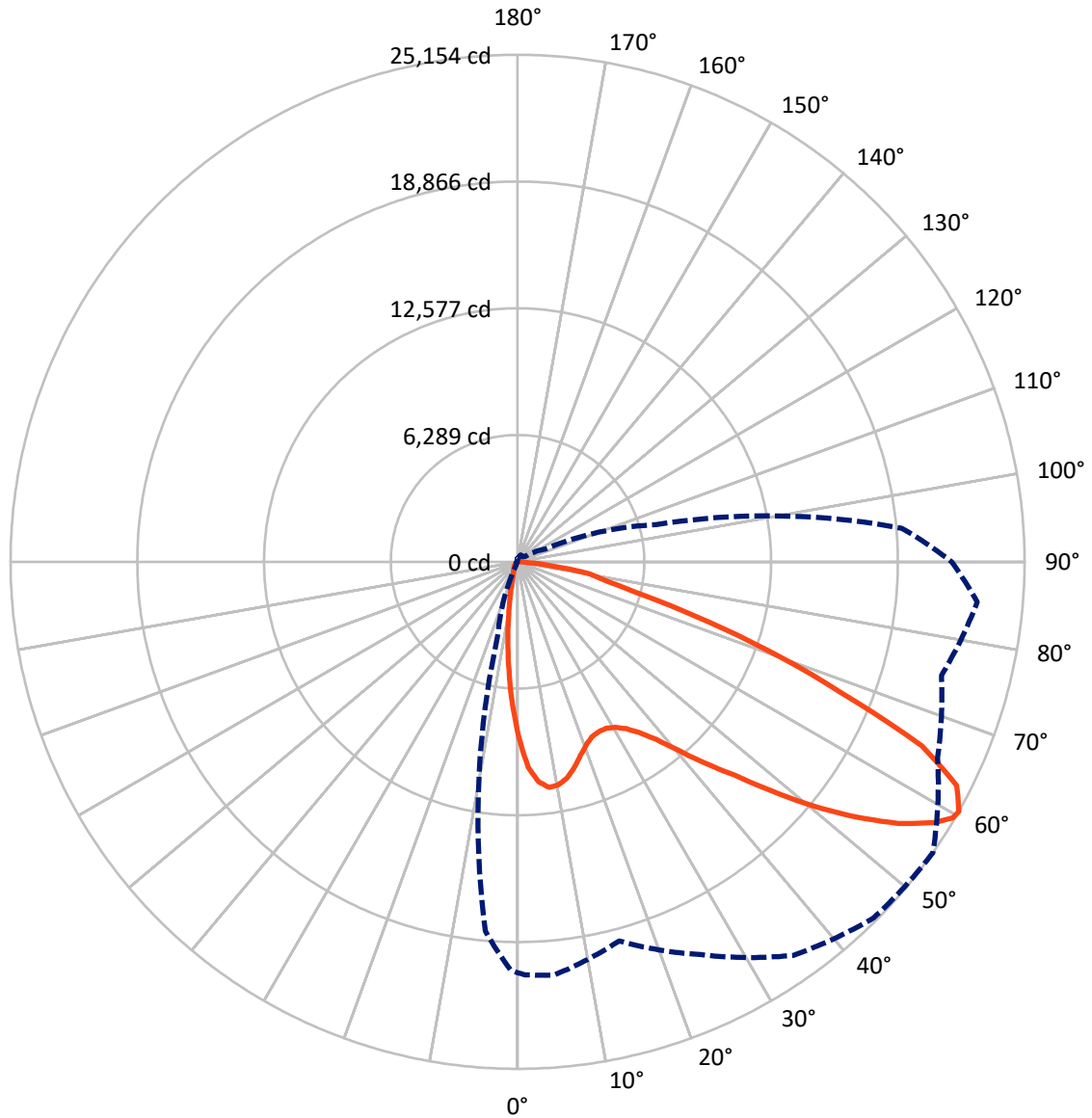
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical



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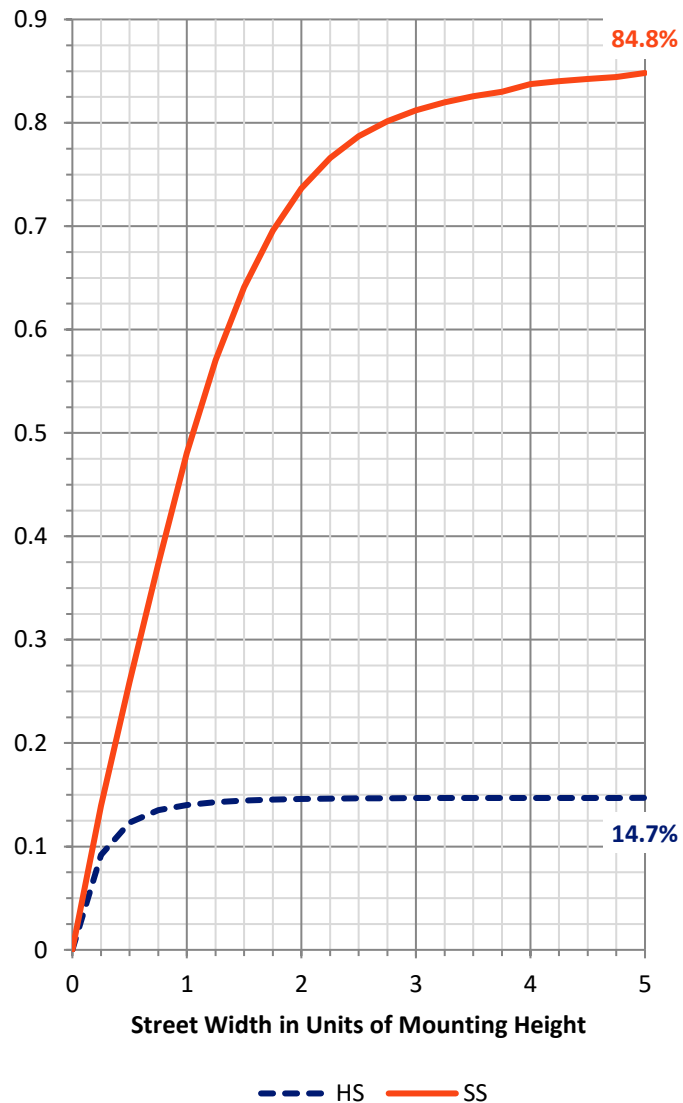
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3828.2	0.0	3828.2
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	21966.9	0.0	21966.9
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	25795.2	0.0	25795.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	646.8	2.5
10°-20°	1273.7	4.9
20°-30°	1885.2	7.3
30°-40°	2810.1	10.9
40°-50°	4115.5	16.0
50°-60°	5941.5	23.0
60°-70°	6250.1	24.2
70°-80°	2571.1	10.0
80°-90°	301.1	1.2
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°	25795.2	100.0
0°-180°	25795.2	100.0

**Coefficient of Utilization**



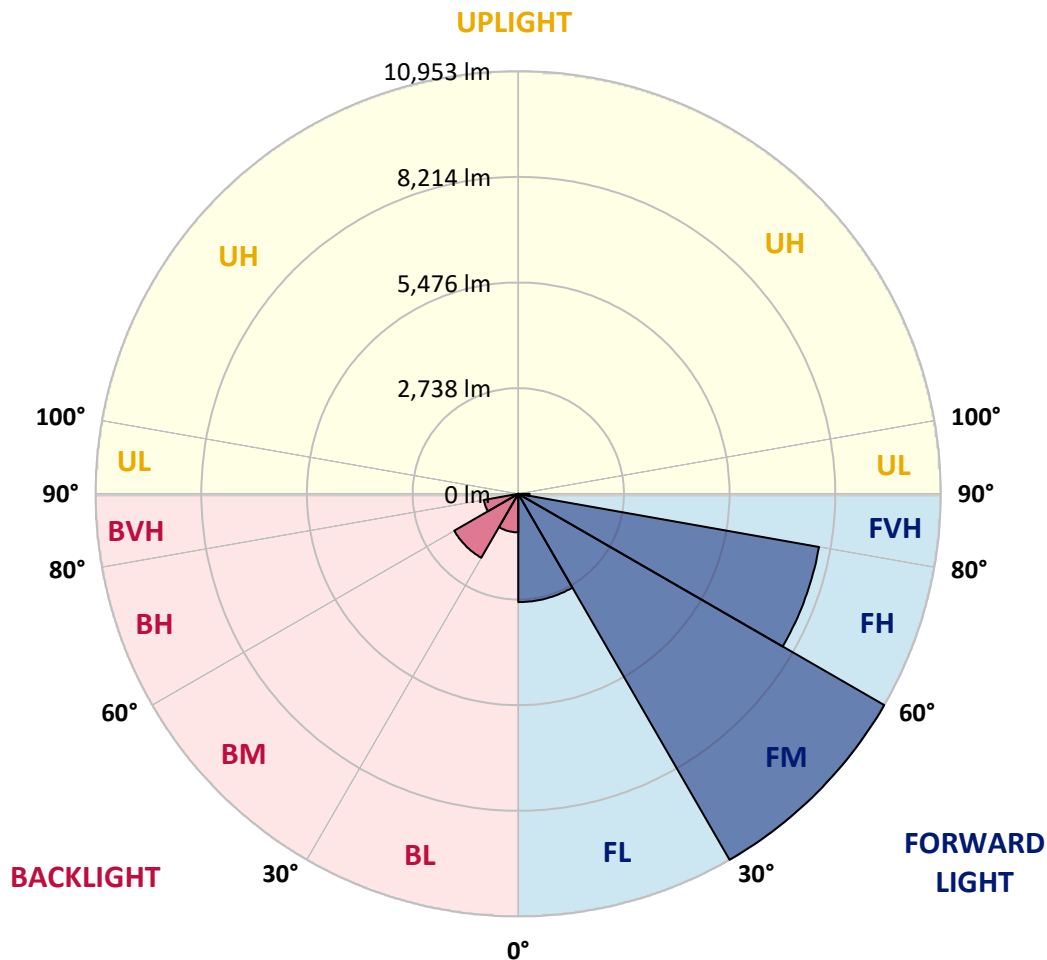
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2806.9	10.9			
FM (30°-60°)	10952.7	42.5			
FH (60°-80°)	7915.1	30.7			G4/12000
FVH (80°-90°)	292.3	1.1			G3/500
BL (0°-30°)	998.8	3.9	B2/1000		
BM (30°-60°)	1914.5	7.4	B2/2500		
BH (60°-80°)	906.1	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.9	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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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1
2.5°	9542.3	9526.4	9667.3	9897.7	10130.0	10251.1	10227.2	10217.3	10024.7	9883.7	9587.9
5°	9522.4	9603.8	9855.9	10479.4	10952.0	11180.3	11247.8	10963.9	10588.6	10044.6	9373.5
7.5°	8952.6	9053.8	9464.8	10439.7	11279.6	11775.9	11758.1	11303.4	10529.1	9687.2	8730.2
10°	8245.8	8364.9	8847.4	10030.7	11120.7	11775.9	11811.7	11235.9	10273.0	9192.8	8186.2
12.5°	7747.4	7888.3	8422.4	9649.5	10711.8	11357.0	11398.7	10981.7	10080.3	9002.2	7890.4
15°	7578.6	7711.6	8253.7	9456.9	10276.9	10624.4	10614.4	10570.7	10004.9	9047.9	7906.2
17.5°	7868.5	7977.7	8589.2	9544.2	9869.9	9834.2	9885.8	10096.2	10020.8	9431.1	8406.5
20°	8617.0	8728.2	9385.4	9812.3	9558.2	9331.8	9355.6	9707.1	10167.7	10151.8	9188.8
22.5°	9647.5	9836.1	10431.8	10332.5	9516.4	9020.1	8970.4	9427.1	10417.9	10981.7	10245.2
25°	10952.0	11142.6	11607.2	11162.4	9720.9	8946.6	8900.9	9341.7	10721.6	11791.8	11434.5
27.5°	12047.9	12192.9	12655.5	11970.5	10022.7	8978.3	8902.9	9353.6	10967.9	12480.8	12437.1
30°	12925.5	13032.7	13304.7	12347.8	10282.8	9117.3	9030.0	9528.3	11077.0	12816.3	13249.1
32.5°	13632.3	13813.1	13898.4	12750.8	10656.1	9379.5	9230.6	9863.9	11343.1	13231.3	14101.0
35°	14440.5	14648.9	14539.8	13136.0	11148.5	9788.4	9605.8	10407.9	11746.2	13614.5	15089.7
37.5°	15465.0	15705.3	15278.4	13541.0	11668.7	10404.0	10318.6	11172.3	12357.7	14162.5	16150.0
40°	16525.2	16664.2	15995.1	14033.5	12308.1	11299.4	11380.8	12308.1	13157.8	14819.7	17277.8
42.5°	17353.2	17484.2	16731.7	14446.4	12961.3	12361.7	12701.2	13678.1	14075.1	15492.8	18119.6
45°	17986.5	18097.7	17242.0	14897.1	13842.8	13900.4	14541.7	15089.7	14994.4	15903.7	18768.8
47.5°	18479.0	18574.2	17635.1	15381.6	15163.2	15782.6	16763.5	16995.8	15947.4	16348.5	19356.5
50°	18681.4	18709.2	17758.2	15999.0	16662.2	18181.1	19203.6	19062.7	17039.5	16842.9	19981.9
52.5°	18945.5	18939.6	18109.6	16586.8	18072.0	20325.4	21346.0	21026.4	18274.4	17583.5	20684.8
55°	19638.5	19646.4	18862.2	17420.7	19273.2	22056.8	23148.8	22916.5	19577.0	18834.4	21504.9
57.5°	20480.3	20510.1	19932.4	18395.6	20420.7	23311.6	24495.0	24405.6	21338.1	20226.1	22279.2
59°	20589.5	20649.1	20438.6	19082.6	21101.8	23696.8	24955.6	25043.0	22281.1	21143.5	22698.1
60°	20391.0	20490.2	20585.5	19471.7	21500.9	23835.8	24983.4	25154.2	22990.0	21766.9	22888.7
62.5°	19525.3	19682.2	20160.7	20668.9	21999.2	23402.9	24095.9	24453.2	23867.6	23405.0	22906.6
65°	18391.6	18473.0	19163.9	20881.4	21032.3	21381.8	21596.2	22054.8	22813.3	24036.3	22086.6
67.5°	16533.2	16773.4	17619.2	19648.4	18179.1	17766.2	17712.6	17255.9	19225.5	22531.3	20065.4
70°	13658.2	13765.4	14807.8	16108.3	13719.7	13084.4	13338.5	13167.8	14903.1	19396.2	16150.0
72.5°	10328.6	10570.7	11589.3	12840.2	9335.8	8511.8	9212.7	9149.1	11194.2	15588.0	11094.9
75°	7348.3	7505.1	8803.7	10048.6	6538.2	5539.5	5791.7	6027.9	7814.9	12308.1	6556.1
77.5°	5049.1	5184.1	6159.0	6645.4	4769.2	4568.6	4179.4	4407.8	5120.6	7302.6	3567.9
80°	3045.7	3039.8	3681.1	3800.2	3321.7	3857.8	3236.4	3633.4	3095.4	3125.2	1381.9
82.5°	1977.5	1957.7	2251.5	2454.1	1848.5	1943.8	1304.5	1880.3	2017.2	871.6	436.8
85°	885.5	923.2	1082.1	1427.6	810.1	430.9	266.1	577.8	859.7	438.8	0.0
87.5°	91.3	71.5	190.6	347.5	111.2	11.9	39.7	19.9	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1
2.5°	9451.0	9335.8	8992.3	8670.6	8394.6	8057.1	7838.7	7495.2	7286.8	7223.2	7233.1
5°	9071.7	8740.2	8086.9	7564.7	6983.0	6651.4	6147.1	5662.6	5400.5	5303.3	5259.6
7.5°	8277.5	7922.1	7133.8	6313.9	5690.4	5108.7	4733.4	4306.5	4014.7	3774.5	3732.7
10°	7687.8	7221.2	6244.3	5362.8	4870.4	4433.6	4058.4	3631.5	3288.0	3014.0	2938.5
12.5°	7334.4	6812.2	5722.2	4983.6	4517.0	4068.2	3579.9	3085.4	2734.0	2438.2	2301.2
15°	7270.9	6665.3	5575.3	4711.5	4135.8	3593.7	2944.5	2410.4	2049.0	1769.0	1683.7
17.5°	7654.1	6929.4	5553.4	4427.6	3637.4	2869.1	2194.0	1751.2	1344.2	1187.3	1125.8
20°	8337.1	7396.0	5551.4	4098.1	3125.2	2209.9	1540.7	1141.7	976.9	901.4	865.7
22.5°	9268.3	8031.3	5656.6	3814.1	2593.1	1630.0	1100.0	909.4	814.1	752.5	738.6
25°	10405.9	8972.4	5914.8	3621.5	2186.1	1278.6	907.3	778.3	698.9	671.1	659.2
27.5°	11416.5	9873.9	6198.7	3423.0	1894.2	1131.7	841.9	712.8	649.3	627.4	609.6
30°	12288.2	10691.9	6335.7	3160.9	1659.9	1036.5	853.8	762.4	679.0	613.5	583.7
32.5°	13014.9	11319.3	6425.1	2922.6	1461.3	847.8	675.1	589.7	551.9	528.1	508.3
35°	13924.2	11998.3	6371.4	2787.6	1360.1	772.4	615.5	508.3	444.7	397.1	377.2
37.5°	14877.2	12677.3	6278.1	2676.5	1314.4	716.8	585.7	482.5	413.0	363.3	337.6
40°	15864.0	13306.8	6168.9	2573.2	1272.7	681.1	567.8	460.6	391.1	337.6	309.8
42.5°	16767.5	13920.3	6125.3	2505.7	1205.2	687.0	554.0	450.7	369.3	313.7	289.9
45°	17498.1	14502.0	6184.8	2470.0	1131.7	677.1	557.9	438.8	351.4	297.9	274.0
47.5°	18278.4	15324.0	6377.4	2434.2	1060.3	629.4	587.7	436.8	343.5	287.9	262.1
50°	19185.8	16376.3	6818.2	2346.9	972.9	577.8	625.5	434.8	333.6	276.0	250.2
52.5°	20395.0	17571.6	7272.8	2194.0	845.8	528.1	597.7	428.8	313.7	262.1	236.3
55°	21481.0	18830.4	7658.1	2013.2	685.0	456.6	538.1	403.1	279.9	238.3	214.5
57.5°	21929.7	19541.2	7646.2	1763.1	548.0	401.1	442.8	369.3	244.2	210.5	190.6
59°	21764.9	19451.8	7390.0	1578.4	500.3	371.3	367.3	365.3	228.3	190.6	174.7
60°	21532.7	19126.2	7114.0	1487.2	470.6	351.4	337.6	361.4	214.5	178.7	162.8
62.5°	20643.2	17776.1	6198.7	1332.3	430.9	297.9	270.1	305.8	190.6	154.9	140.9
65°	19354.6	15701.3	5247.7	1288.6	418.9	246.2	224.3	218.4	162.8	131.1	119.1
67.5°	16840.9	13286.9	4250.9	1258.8	422.9	206.5	196.5	164.8	135.0	109.2	101.2
70°	13483.5	10360.3	3480.6	1225.1	426.9	168.7	164.8	131.1	109.2	91.3	83.4
72.5°	8192.1	6141.1	2740.0	1064.3	415.0	135.0	146.9	99.3	79.4	65.5	61.5
75°	5065.0	4203.3	1699.6	827.9	274.0	99.3	103.3	61.5	53.6	41.7	41.7
77.5°	2934.5	2654.6	607.5	297.9	121.1	59.6	45.6	31.8	29.8	17.9	17.9
80°	1217.1	974.9	210.5	101.2	65.5	27.8	9.9	2.0	0.0	0.0	0.0
82.5°	355.4	315.7	57.6	45.6	19.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1
2.5°	7064.4	6998.8	6969.1	7070.3	6977.0	7096.2	7004.8	7044.5	7161.6	7213.3	7346.3
5°	5287.4	5219.9	5188.1	5341.0	5333.0	5408.5	5400.5	5470.0	5529.6	5396.6	5533.5
7.5°	3683.1	3637.4	3712.8	3832.0	3959.1	3917.3	3917.3	3824.0	3855.8	3836.0	3830.0
10°	2801.5	2644.7	2605.0	2601.0	2648.7	2658.6	2605.0	2475.9	2523.5	2537.5	2620.9
12.5°	2203.9	2082.8	1898.1	1814.8	1792.9	1810.8	1634.0	1520.9	1574.5	1542.7	1624.1
15°	1580.5	1481.2	1372.0	1278.6	1252.9	1217.1	1024.5	889.5	873.6	879.5	893.5
17.5°	1127.8	1060.3	1060.3	961.0	907.3	800.1	702.9	643.3	637.4	643.3	653.3
20°	831.9	796.2	792.2	766.4	706.8	635.3	567.8	555.9	551.9	561.9	565.9
22.5°	716.8	679.0	647.3	645.3	589.7	530.1	498.4	482.5	484.4	488.4	498.4
25°	641.3	601.6	567.8	548.0	508.3	466.6	436.8	428.8	428.8	434.8	436.8
27.5°	587.7	538.1	508.3	480.5	444.7	409.0	383.2	377.2	373.3	377.2	387.2
30°	550.0	500.3	462.6	420.9	393.1	359.4	337.6	329.6	327.6	329.6	337.6
32.5°	470.6	440.8	411.0	373.3	339.5	317.7	293.9	279.9	279.9	283.9	291.9
35°	355.4	339.5	337.6	327.6	299.8	276.0	248.2	234.3	234.3	242.3	246.2
37.5°	313.7	283.9	279.9	276.0	264.1	232.3	206.5	194.6	192.6	198.6	206.5
40°	285.9	252.1	234.3	230.3	232.3	196.5	168.7	156.8	156.8	158.9	166.8
42.5°	264.1	224.3	192.6	188.6	196.5	164.8	137.0	125.1	125.1	125.1	135.0
45°	246.2	200.5	162.8	143.0	154.9	135.0	111.2	99.3	95.3	99.3	103.3
47.5°	234.3	182.7	143.0	115.2	115.2	107.2	89.3	75.5	71.5	73.4	79.4
50°	224.3	166.8	121.1	93.3	83.4	85.3	67.5	57.6	53.6	53.6	59.6
52.5°	208.5	150.9	105.2	79.4	63.5	57.6	49.6	41.7	39.7	41.7	45.6
55°	188.6	137.0	91.3	65.5	49.6	39.7	35.7	29.8	27.8	29.8	35.7
57.5°	166.8	115.2	73.4	51.6	33.7	25.8	23.8	19.9	15.9	17.9	21.8
59°	152.9	103.3	63.5	41.7	25.8	17.9	17.9	13.9	9.9	11.9	17.9
60°	146.9	95.3	53.6	35.7	21.8	13.9	13.9	9.9	6.0	7.9	13.9
62.5°	125.1	79.4	41.7	21.8	9.9	2.0	6.0	2.0	0.0	2.0	6.0
65°	105.2	63.5	27.8	9.9	0.0	0.0	0.0	0.0	0.0	0.0	2.0
67.5°	87.4	47.7	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	69.5	31.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	47.7	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



REPORT NUMBER: P647501

CATALOG NUMBER: GALN-SA6D-835-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1	8734.1
2.5°	7354.2	7638.2	7812.9	8142.5	8480.0	8740.2	9065.7	9357.6	9478.8	9542.3
5°	5672.5	6067.6	6403.2	6905.5	7372.1	7939.9	8515.8	9194.8	9454.9	9522.4
7.5°	3980.9	4383.9	4735.4	5317.1	5982.3	6742.7	7604.4	8466.1	8845.3	8952.6
10°	2875.0	3305.8	3734.7	4316.4	4937.9	5761.9	6659.3	7725.5	8162.4	8245.8
12.5°	1814.8	2277.4	2974.2	3693.0	4350.2	5013.4	5952.5	7112.0	7594.5	7747.4
15°	1052.3	1397.8	1923.9	2861.1	3697.0	4574.6	5599.1	6881.7	7421.7	7578.6
17.5°	704.9	824.0	1185.3	1902.1	3006.0	4169.6	5509.7	7070.3	7668.0	7868.5
20°	593.7	647.3	774.3	1159.5	2315.1	3808.2	5533.5	7582.6	8366.8	8617.0
22.5°	522.2	571.8	653.3	833.9	1616.2	3359.5	5646.8	8315.2	9327.8	9647.5
25°	460.6	510.3	581.8	690.9	1086.1	2841.3	5894.9	9387.4	10600.5	10952.0
27.5°	409.0	454.7	516.2	609.6	835.9	2263.5	6115.3	10431.8	11762.1	12047.9
30°	361.4	399.1	458.7	530.1	694.9	1745.2	6226.5	11345.1	12607.9	12925.5
32.5°	313.7	349.5	407.0	464.6	571.8	1330.2	6149.1	12016.2	13429.9	13632.3
35°	268.0	305.8	353.4	407.0	494.4	1074.1	5761.9	12770.7	14281.6	14440.5
37.5°	230.3	262.1	311.7	353.4	446.7	859.7	5293.3	13449.7	15236.6	15465.0
40°	194.6	226.4	276.0	313.7	411.0	677.1	4870.4	14204.2	16243.3	16525.2
42.5°	158.9	196.5	240.2	301.8	353.4	516.2	4358.2	14815.7	16999.8	17353.2
45°	127.1	168.7	216.4	299.8	307.7	393.1	3863.8	15292.2	17668.9	17986.5
47.5°	101.2	143.0	208.5	279.9	252.1	311.7	3581.8	15790.6	18224.8	18479.0
50°	81.4	119.1	218.4	246.2	210.5	264.1	3573.8	16346.5	18512.7	18681.4
52.5°	65.5	97.3	184.6	188.6	178.7	232.3	3788.3	16972.0	18806.6	18945.5
55°	55.6	81.4	121.1	139.0	160.8	210.5	3949.1	17934.9	19507.4	19638.5
57.5°	43.7	69.5	93.3	111.2	143.0	192.6	3971.0	18677.5	20395.0	20480.3
59°	37.7	59.6	83.4	99.3	131.1	180.7	3881.6	18723.2	20452.5	20589.5
60°	31.8	53.6	73.4	93.3	121.1	170.8	3784.3	18391.6	20238.1	20391.0
62.5°	23.8	41.7	53.6	75.5	99.3	146.9	3323.7	17234.1	19418.1	19525.3
65°	15.9	29.8	39.7	55.6	77.4	127.1	2708.2	15733.1	18151.3	18391.6
67.5°	9.9	21.8	31.8	41.7	63.5	107.2	1929.9	13491.4	16378.3	16533.2
70°	6.0	13.9	23.8	33.7	49.6	85.3	1145.6	10664.1	13626.4	13658.2
72.5°	4.0	9.9	15.9	23.8	39.7	77.4	555.9	6951.2	9949.3	10328.6
75°	2.0	6.0	9.9	17.9	31.8	63.5	266.1	4644.1	7239.1	7348.3
77.5°	0.0	2.0	6.0	11.9	23.8	49.6	154.9	3049.7	4936.0	5049.1
80°	0.0	0.0	4.0	9.9	17.9	31.8	93.3	1798.9	2990.1	3045.7
82.5°	0.0	0.0	2.0	7.9	11.9	23.8	47.7	790.2	1957.7	1977.5
85°	0.0	0.0	2.0	7.9	9.9	15.9	17.9	107.2	869.7	885.5
87.5°	0.0	0.0	2.0	9.9	9.9	9.9	9.9	6.0	73.4	91.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)