

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: P650801

Luminaire Tested: **GALN-SA3C-840-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650801  
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-SA3C-840-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1050mA 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: 12675.5 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

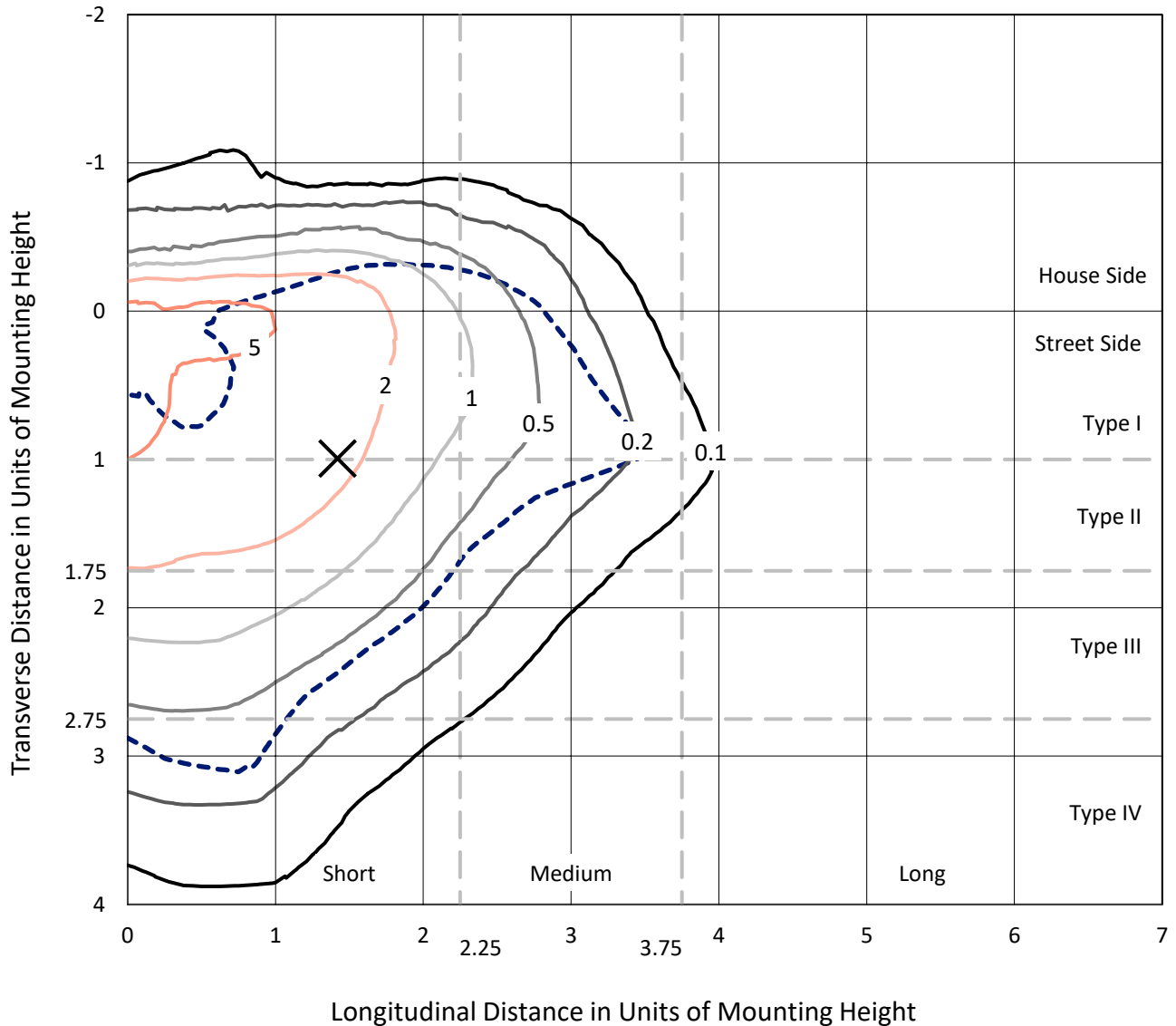
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

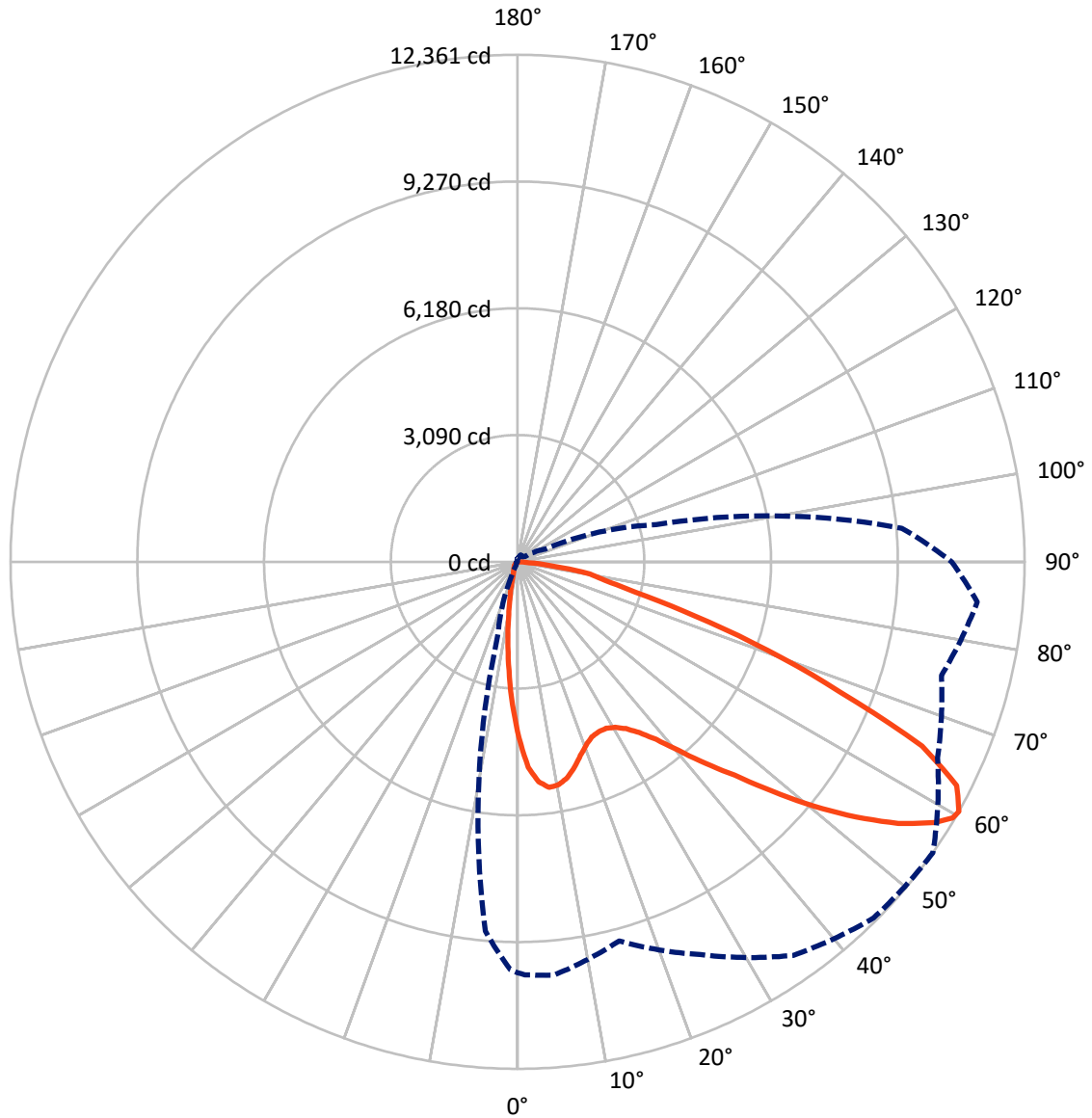
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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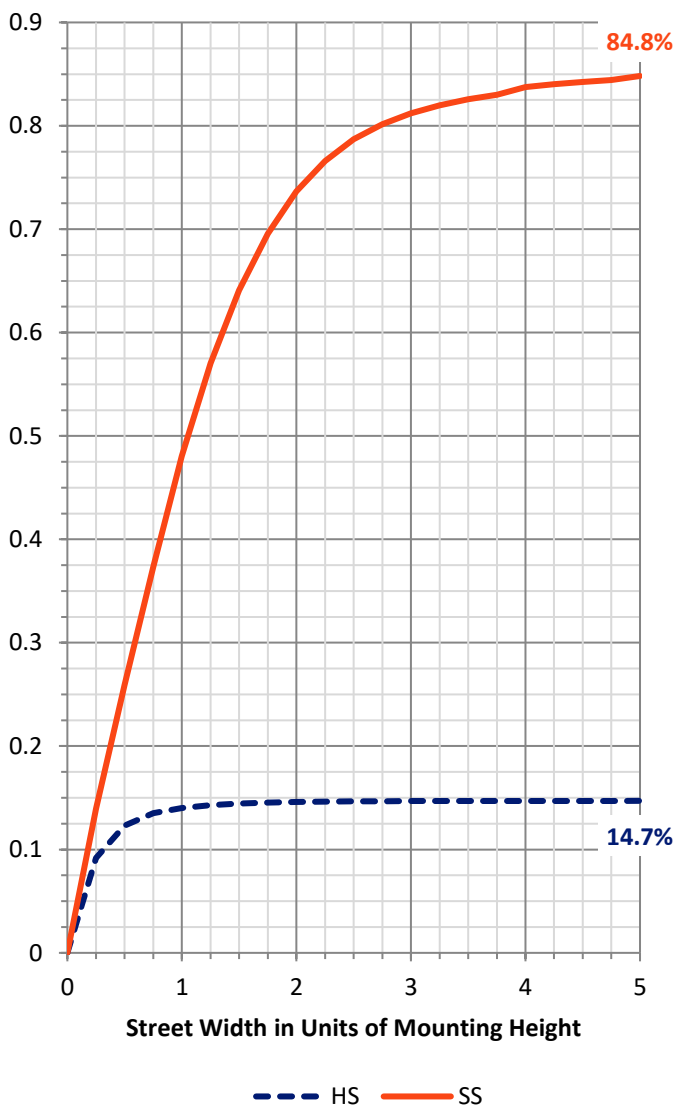
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1881.2	0.0	1881.2
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	10794.4	0.0	10794.4
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	12675.5	0.0	12675.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.8	2.5
10°-20°	625.9	4.9
20°-30°	926.4	7.3
30°-40°	1380.9	10.9
40°-50°	2022.3	16.0
50°-60°	2919.6	23.0
60°-70°	3071.3	24.2
70°-80°	1263.4	10.0
80°-90°	148.0	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°	12675.5	100.0
0°-180°	12675.5	100.0

**Coefficient of Utilization**



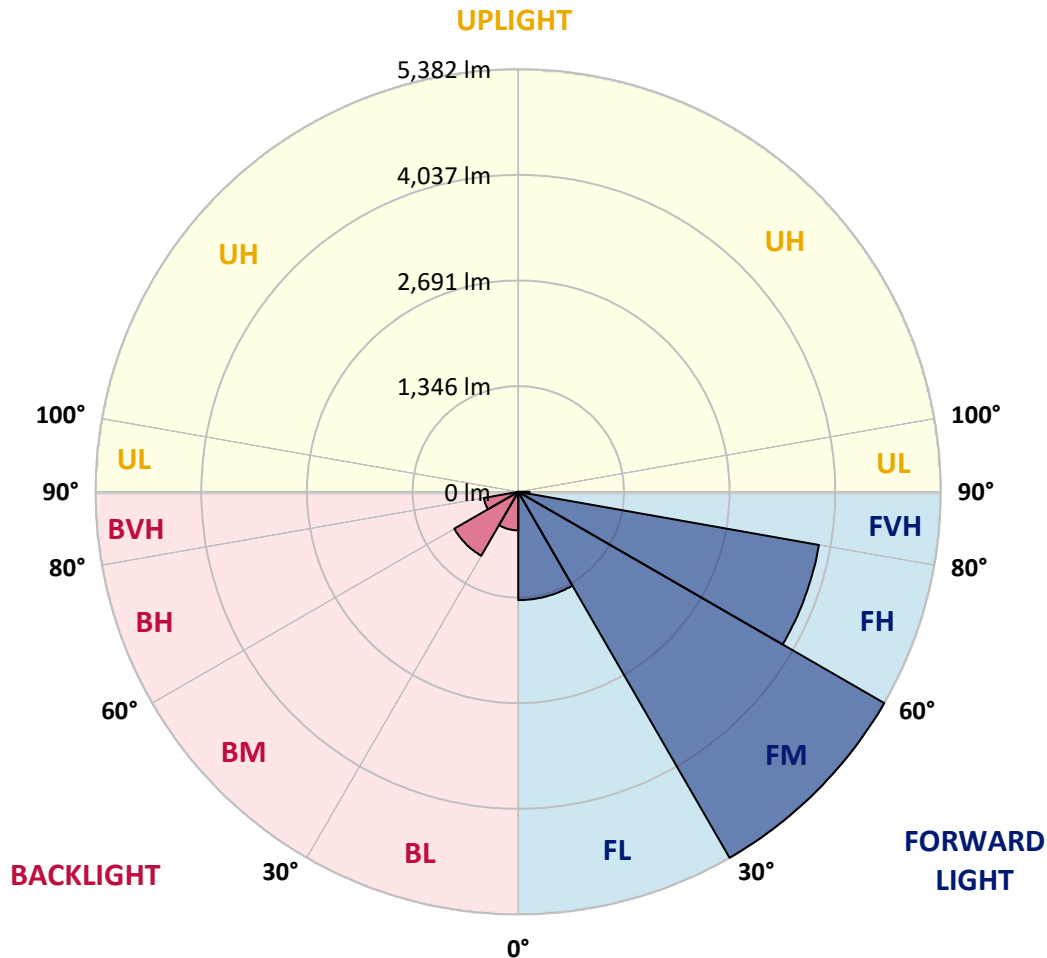
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1379.3	10.9			
FM (30°-60°)	5382.1	42.5			
FH (60°-80°)	3889.4	30.7			G2/5000
FVH (80°-90°)	143.6	1.1			G2/225
BL (0°-30°)	490.8	3.9	B1/500		
BM (30°-60°)	940.8	7.4	B1/1000		
BH (60°-80°)	445.3	3.5	B1/500		G1/500
BVH (80°-90°)	4.4	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9
2.5°	4689.0	4681.2	4750.5	4863.7	4977.8	5037.3	5025.6	5020.7	4926.1	4856.8	4711.5
5°	4679.2	4719.3	4843.2	5149.5	5381.7	5493.9	5527.1	5387.5	5203.2	4935.8	4606.1
7.5°	4399.2	4449.0	4651.0	5130.0	5542.7	5786.6	5777.8	5554.4	5173.9	4760.2	4289.9
10°	4051.9	4110.5	4347.5	4929.0	5464.6	5786.6	5804.2	5521.2	5048.0	4517.3	4022.6
12.5°	3807.0	3876.3	4138.7	4741.6	5263.7	5580.7	5601.2	5396.4	4953.4	4423.7	3877.3
15°	3724.1	3789.5	4055.8	4647.0	5050.0	5220.8	5215.9	5194.4	4916.3	4446.0	3885.1
17.5°	3866.5	3920.2	4220.6	4690.0	4850.0	4832.4	4857.8	4961.2	4924.1	4634.3	4130.9
20°	4234.4	4289.0	4612.0	4821.7	4696.8	4585.6	4597.3	4770.0	4996.3	4988.6	4515.3
22.5°	4740.7	4833.4	5126.1	5077.3	4676.3	4432.4	4408.0	4632.4	5119.3	5396.4	5034.4
25°	5381.7	5475.4	5703.7	5485.2	4776.8	4396.3	4373.9	4590.4	5268.5	5794.4	5618.8
27.5°	5920.3	5991.5	6218.9	5882.2	4925.1	4411.9	4374.8	4596.3	5389.5	6133.0	6111.5
30°	6351.5	6404.2	6537.8	6067.6	5052.9	4480.2	4437.3	4682.2	5443.2	6297.8	6510.5
32.5°	6698.8	6787.6	6829.6	6265.6	5236.3	4609.0	4535.8	4847.0	5573.9	6501.8	6929.1
35°	7095.9	7198.4	7144.7	6454.9	5478.3	4810.0	4720.2	5114.4	5772.0	6690.1	7415.0
37.5°	7599.4	7717.4	7507.7	6654.0	5733.9	5112.4	5070.5	5490.0	6072.4	6959.4	7936.0
40°	8120.4	8188.6	7859.9	6895.9	6048.1	5552.5	5592.5	6048.1	6465.7	7282.3	8490.1
42.5°	8527.2	8591.7	8221.9	7098.9	6369.1	6074.5	6241.2	6721.3	6916.4	7613.1	8903.8
45°	8838.5	8893.1	8472.6	7320.3	6802.3	6830.6	7145.7	7415.0	7368.2	7815.0	9222.8
47.5°	9080.4	9127.3	8665.7	7558.4	7451.1	7755.4	8237.4	8351.6	7836.4	8033.6	9511.6
50°	9179.9	9193.6	8726.3	7861.8	8187.7	8934.1	9436.5	9367.2	8373.1	8276.4	9819.0
52.5°	9309.7	9306.8	8899.0	8150.6	8880.4	9987.8	10489.3	10332.2	8979.9	8640.4	10164.4
55°	9650.2	9654.1	9268.7	8560.4	9470.7	10838.6	11375.2	11261.0	9619.9	9255.0	10567.3
57.5°	10063.9	10078.5	9794.6	9039.4	10034.6	11455.2	12036.6	11992.7	10485.3	9939.0	10947.8
59°	10117.6	10146.8	10043.4	9377.0	10369.3	11644.4	12263.0	12305.9	10948.8	10389.7	11153.7
60°	10020.0	10068.8	10115.6	9568.2	10565.4	11712.8	12276.7	12360.6	11297.1	10696.1	11247.4
62.5°	9594.6	9671.7	9906.8	10156.6	10810.3	11500.1	11840.5	12016.2	11728.3	11501.0	11256.1
65°	9037.5	9077.5	9417.0	10261.0	10335.1	10506.9	10612.2	10837.5	11210.3	11811.3	10853.2
67.5°	8124.3	8242.3	8657.9	9655.1	8933.1	8730.2	8703.8	8479.4	9447.3	11071.8	9860.0
70°	6711.5	6764.2	7276.4	7915.5	6741.8	6429.5	6554.4	6470.6	7323.3	9531.1	7936.0
72.5°	5075.4	5194.4	5694.9	6309.6	4587.6	4182.6	4527.0	4495.8	5500.7	7659.8	5452.0
75°	3610.9	3688.0	4326.0	4937.8	3212.9	2722.1	2845.9	2962.1	3840.2	6048.1	3221.6
77.5°	2481.1	2547.5	3026.5	3265.5	2343.5	2245.0	2053.7	2166.0	2516.2	3588.5	1753.2
80°	1496.6	1493.7	1808.8	1867.4	1632.3	1895.7	1590.3	1785.4	1521.0	1535.7	679.0
82.5°	971.8	962.0	1106.4	1205.9	908.4	955.2	641.0	923.9	991.3	428.3	214.6
85°	435.1	453.7	531.8	701.5	398.0	211.7	130.8	283.9	422.4	215.6	0.0
87.5°	44.9	35.2	93.7	170.7	54.7	5.9	19.5	9.8	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°	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9
2.5°	4644.1	4587.6	4418.8	4260.7	4125.1	3959.2	3851.9	3683.1	3580.6	3549.4	3554.3
5°	4457.8	4294.8	3973.8	3717.2	3431.4	3268.5	3020.6	2782.5	2653.8	2606.0	2584.5
7.5°	4067.5	3892.9	3505.5	3102.6	2796.2	2510.4	2326.0	2116.2	1972.7	1854.7	1834.2
10°	3777.8	3548.4	3068.5	2635.3	2393.3	2178.6	1994.3	1784.4	1615.6	1481.1	1444.0
12.5°	3604.1	3347.4	2811.8	2448.9	2219.7	1999.1	1759.1	1516.2	1343.5	1198.1	1130.8
15°	3572.8	3275.3	2739.6	2315.2	2032.3	1765.9	1446.9	1184.5	1006.8	869.3	827.4
17.5°	3761.1	3405.0	2728.9	2175.8	1787.4	1409.9	1078.1	860.5	660.5	583.4	553.2
20°	4096.8	3634.3	2728.0	2013.8	1535.7	1085.9	757.1	561.0	480.0	443.0	425.4
22.5°	4554.4	3946.6	2779.7	1874.3	1274.2	801.1	540.5	446.8	400.0	369.8	363.0
25°	5113.4	4409.0	2906.5	1779.6	1074.2	628.3	445.9	382.5	343.5	329.8	324.0
27.5°	5610.1	4851.9	3046.0	1682.0	930.7	556.2	413.7	350.3	319.1	308.3	299.6
30°	6038.3	5253.9	3113.3	1553.2	815.7	509.3	419.5	374.7	333.7	301.5	286.9
32.5°	6395.4	5562.2	3157.2	1436.2	718.0	416.6	331.7	289.8	271.2	259.5	249.8
35°	6842.3	5895.9	3130.9	1369.8	668.3	379.5	302.4	249.8	218.6	195.1	185.4
37.5°	7310.6	6229.5	3085.0	1315.2	645.9	352.2	287.8	237.1	202.9	178.5	165.8
40°	7795.5	6538.9	3031.4	1264.4	625.4	334.6	279.0	226.3	192.2	165.8	152.2
42.5°	8239.4	6840.4	3009.9	1231.3	592.2	337.6	272.2	221.4	181.5	154.2	142.5
45°	8598.5	7126.2	3039.2	1213.7	556.2	332.7	274.2	215.6	172.7	146.3	134.6
47.5°	8981.9	7530.1	3133.8	1196.2	521.0	309.3	288.8	214.6	168.8	141.5	128.8
50°	9427.8	8047.2	3350.4	1153.3	478.1	283.9	307.3	213.7	163.9	135.7	123.0
52.5°	10021.9	8634.5	3573.8	1078.1	415.6	259.5	293.7	210.8	154.2	128.8	116.1
55°	10555.6	9253.1	3763.1	989.4	336.6	224.4	264.4	198.1	137.6	117.1	105.4
57.5°	10776.1	9602.4	3757.3	866.4	269.3	197.0	217.6	181.5	120.0	103.4	93.7
59°	10695.2	9558.5	3631.4	775.7	245.8	182.4	180.5	179.6	112.2	93.7	85.9
60°	10581.0	9398.5	3495.8	730.7	231.2	172.7	165.8	177.5	105.4	87.8	80.0
62.5°	10143.9	8735.0	3046.0	654.6	211.7	146.3	132.7	150.3	93.7	76.1	69.3
65°	9510.7	7715.5	2578.7	633.2	205.9	121.0	110.3	107.3	80.0	64.4	58.5
67.5°	8275.5	6529.1	2088.9	618.6	207.8	101.5	96.6	81.0	66.4	53.7	49.8
70°	6625.7	5091.0	1710.3	602.0	209.7	82.9	81.0	64.4	53.7	44.9	41.0
72.5°	4025.5	3017.7	1346.4	522.9	203.9	66.4	72.2	48.8	39.0	32.2	30.3
75°	2488.9	2065.5	835.2	406.9	134.6	48.8	50.7	30.3	26.3	20.5	20.5
77.5°	1442.0	1304.5	298.6	146.3	59.5	29.3	22.5	15.6	14.6	8.7	8.7
80°	598.0	479.0	103.4	49.8	32.2	13.6	4.9	1.0	0.0	0.0	0.0
82.5°	174.7	155.2	28.3	22.5	9.8	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°	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9
2.5°	3471.4	3439.2	3424.6	3474.3	3428.4	3487.0	3442.1	3461.6	3519.2	3544.6	3609.9
5°	2598.2	2565.0	2549.4	2624.5	2620.6	2657.6	2653.8	2687.9	2717.2	2651.8	2719.1
7.5°	1809.8	1787.4	1824.5	1883.0	1945.5	1925.0	1925.0	1879.1	1894.7	1884.9	1882.1
10°	1376.6	1299.6	1280.1	1278.1	1301.5	1306.4	1280.1	1216.7	1240.1	1246.9	1287.8
12.5°	1083.0	1023.5	932.8	891.7	881.0	889.8	803.0	747.3	773.7	758.1	798.1
15°	776.7	727.8	674.1	628.3	615.6	598.0	503.4	437.1	429.2	432.2	439.1
17.5°	554.1	521.0	521.0	472.2	445.9	393.2	345.4	316.1	313.2	316.1	321.0
20°	408.8	391.2	389.3	376.6	347.3	312.2	279.0	273.2	271.2	276.1	278.0
22.5°	352.2	333.7	318.1	317.1	289.8	260.5	244.9	237.1	238.1	240.0	244.9
25°	315.1	295.6	279.0	269.3	249.8	229.3	214.6	210.8	210.8	213.7	214.6
27.5°	288.8	264.4	249.8	236.1	218.6	201.0	188.3	185.4	183.4	185.4	190.2
30°	270.3	245.8	227.3	206.8	193.2	176.6	165.8	162.0	161.0	162.0	165.8
32.5°	231.2	216.6	201.9	183.4	166.9	156.1	144.4	137.6	137.6	139.5	143.4
35°	174.7	166.9	165.8	161.0	147.3	135.7	121.9	115.1	115.1	119.0	121.0
37.5°	154.2	139.5	137.6	135.7	129.8	114.1	101.5	95.6	94.6	97.6	101.5
40°	140.5	123.9	115.1	113.2	114.1	96.6	82.9	77.0	77.0	78.0	81.9
42.5°	129.8	110.3	94.6	92.7	96.6	81.0	67.3	61.5	61.5	61.5	66.4
45°	121.0	98.6	80.0	70.2	76.1	66.4	54.7	48.8	46.8	48.8	50.7
47.5°	115.1	89.7	70.2	56.6	56.6	52.6	43.9	37.1	35.2	36.1	39.0
50°	110.3	81.9	59.5	45.8	41.0	42.0	33.1	28.3	26.3	26.3	29.3
52.5°	102.4	74.2	51.7	39.0	31.2	28.3	24.4	20.5	19.5	20.5	22.5
55°	92.7	67.3	44.9	32.2	24.4	19.5	17.6	14.6	13.6	14.6	17.6
57.5°	81.9	56.6	36.1	25.4	16.6	12.7	11.7	9.8	7.8	8.7	10.8
59°	75.1	50.7	31.2	20.5	12.7	8.7	8.7	6.8	4.9	5.9	8.7
60°	72.2	46.8	26.3	17.6	10.8	6.8	6.8	4.9	2.9	3.9	6.8
62.5°	61.5	39.0	20.5	10.8	4.9	1.0	2.9	1.0	0.0	1.0	2.9
65°	51.7	31.2	13.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0
67.5°	42.9	23.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	34.1	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	23.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.9	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: P650801  
 CATALOG NUMBER: GALN-SA3C-840-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9	4291.9
2.5°	3613.9	3753.4	3839.2	4001.1	4167.0	4294.8	4454.9	4598.3	4657.8	4689.0
5°	2787.4	2981.6	3146.5	3393.4	3622.6	3901.7	4184.6	4518.3	4646.1	4679.2
7.5°	1956.2	2154.2	2327.0	2612.8	2939.6	3313.3	3736.7	4160.2	4346.5	4399.2
10°	1412.7	1624.5	1835.2	2121.1	2426.5	2831.3	3272.3	3796.3	4010.9	4051.9
12.5°	891.7	1119.0	1461.5	1814.7	2137.7	2463.5	2925.0	3494.8	3731.9	3807.0
15°	517.1	686.8	945.4	1405.9	1816.6	2247.9	2751.3	3381.7	3647.0	3724.1
17.5°	346.3	404.9	582.5	934.7	1477.1	2048.8	2707.4	3474.3	3768.0	3866.5
20°	291.7	318.1	380.5	569.8	1137.6	1871.3	2719.1	3726.1	4111.4	4234.4
22.5°	256.6	281.0	321.0	409.7	794.2	1650.8	2774.8	4086.1	4583.6	4740.7
25°	226.3	250.7	285.9	339.5	533.7	1396.1	2896.7	4612.9	5209.0	5381.7
27.5°	201.0	223.5	253.6	299.6	410.7	1112.2	3005.0	5126.1	5779.8	5920.3
30°	177.5	196.1	225.4	260.5	341.4	857.6	3059.6	5574.9	6195.4	6351.5
32.5°	154.2	171.7	200.0	228.3	281.0	653.7	3021.6	5904.7	6599.3	6698.8
35°	131.7	150.3	173.7	200.0	243.0	527.8	2831.3	6275.4	7017.9	7095.9
37.5°	113.2	128.8	153.1	173.7	219.5	422.4	2601.1	6609.1	7487.2	7599.4
40°	95.6	111.3	135.7	154.2	201.9	332.7	2393.3	6979.8	7981.8	8120.4
42.5°	78.0	96.6	118.1	148.3	173.7	253.6	2141.5	7280.4	8353.6	8527.2
45°	62.4	82.9	106.4	147.3	151.2	193.2	1898.6	7514.5	8682.3	8838.5
47.5°	49.8	70.2	102.4	137.6	123.9	153.1	1760.0	7759.4	8955.6	9080.4
50°	40.0	58.5	107.3	121.0	103.4	129.8	1756.2	8032.6	9097.0	9179.9
52.5°	32.2	47.8	90.7	92.7	87.8	114.1	1861.6	8339.9	9241.4	9309.7
55°	27.3	40.0	59.5	68.3	79.1	103.4	1940.6	8813.1	9585.8	9650.2
57.5°	21.4	34.1	45.8	54.7	70.2	94.6	1951.3	9178.0	10021.9	10063.9
59°	18.5	29.3	41.0	48.8	64.4	88.8	1907.4	9200.5	10050.2	10117.6
60°	15.6	26.3	36.1	45.8	59.5	83.9	1859.6	9037.5	9944.8	10020.0
62.5°	11.7	20.5	26.3	37.1	48.8	72.2	1633.2	8468.7	9541.9	9594.6
65°	7.8	14.6	19.5	27.3	38.0	62.4	1330.8	7731.1	8919.5	9037.5
67.5°	4.9	10.8	15.6	20.5	31.2	52.6	948.3	6629.6	8048.2	8124.3
70°	2.9	6.8	11.7	16.6	24.4	42.0	563.0	5240.3	6696.0	6711.5
72.5°	1.9	4.9	7.8	11.7	19.5	38.0	273.2	3415.8	4889.0	5075.4
75°	1.0	2.9	4.9	8.7	15.6	31.2	130.8	2282.1	3557.3	3610.9
77.5°	0.0	1.0	2.9	5.9	11.7	24.4	76.1	1498.6	2425.4	2481.1
80°	0.0	0.0	1.9	4.9	8.7	15.6	45.8	884.0	1469.3	1496.6
82.5°	0.0	0.0	1.0	3.9	5.9	11.7	23.4	388.3	962.0	971.8
85°	0.0	0.0	1.0	3.9	4.9	7.8	8.7	52.6	427.3	435.1
87.5°	0.0	0.0	1.0	4.9	4.9	4.9	4.9	2.9	36.1	44.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)