

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: P651463

Luminaire Tested: **GALN-SA6D-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651463  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-840-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21327.8 lumens  
Efficiency: N/A  
Efficacy: 58.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

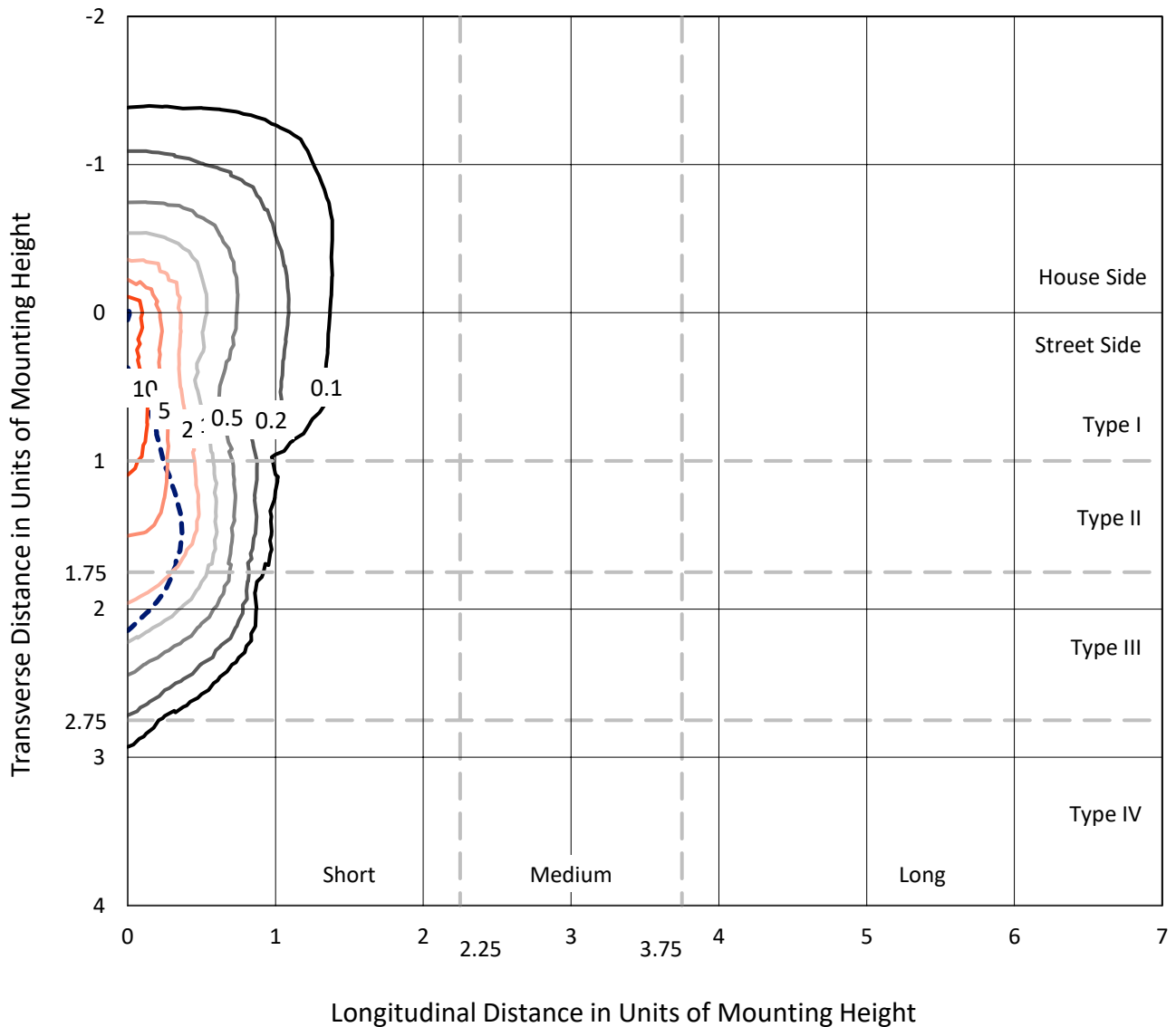
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

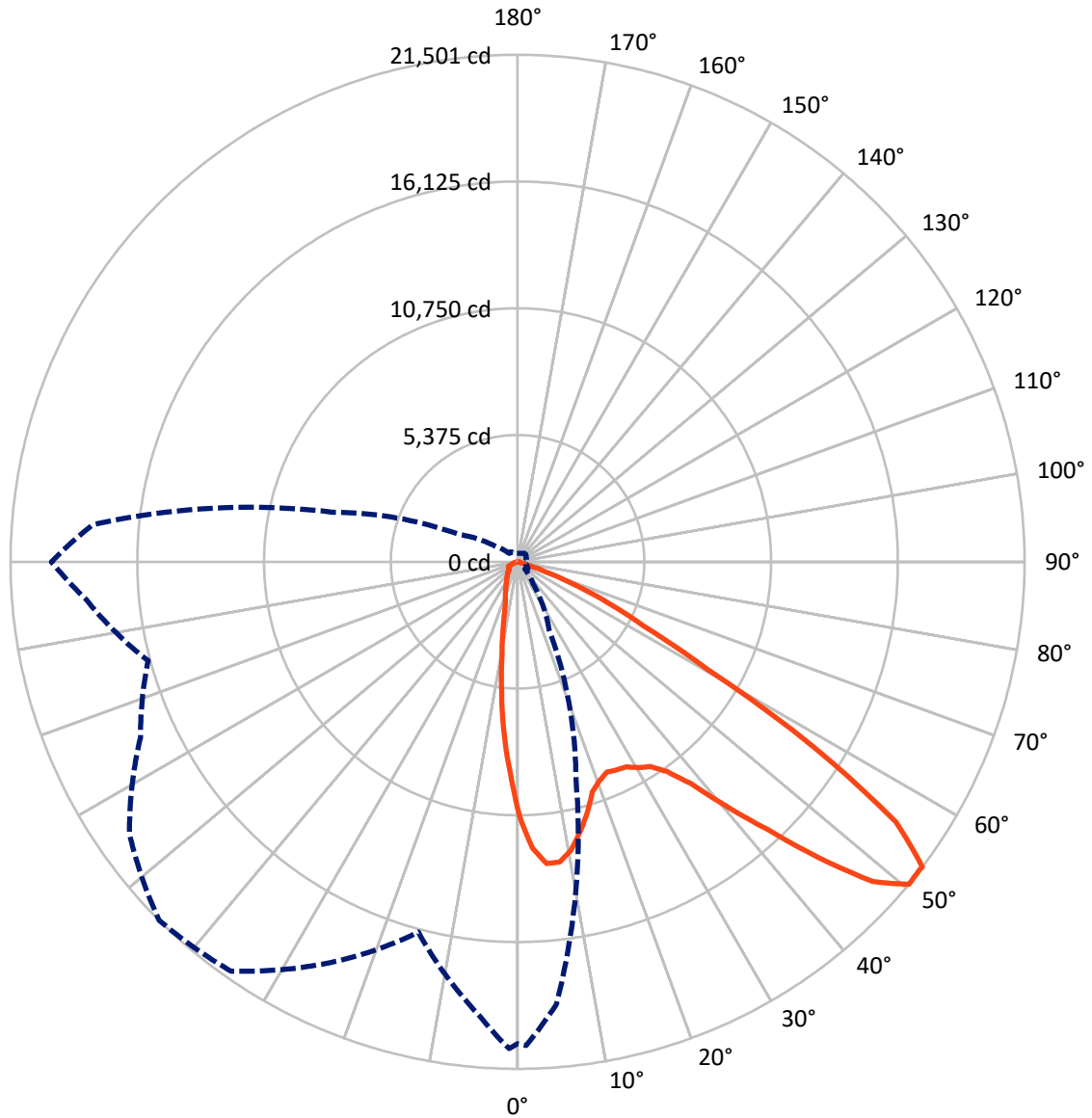
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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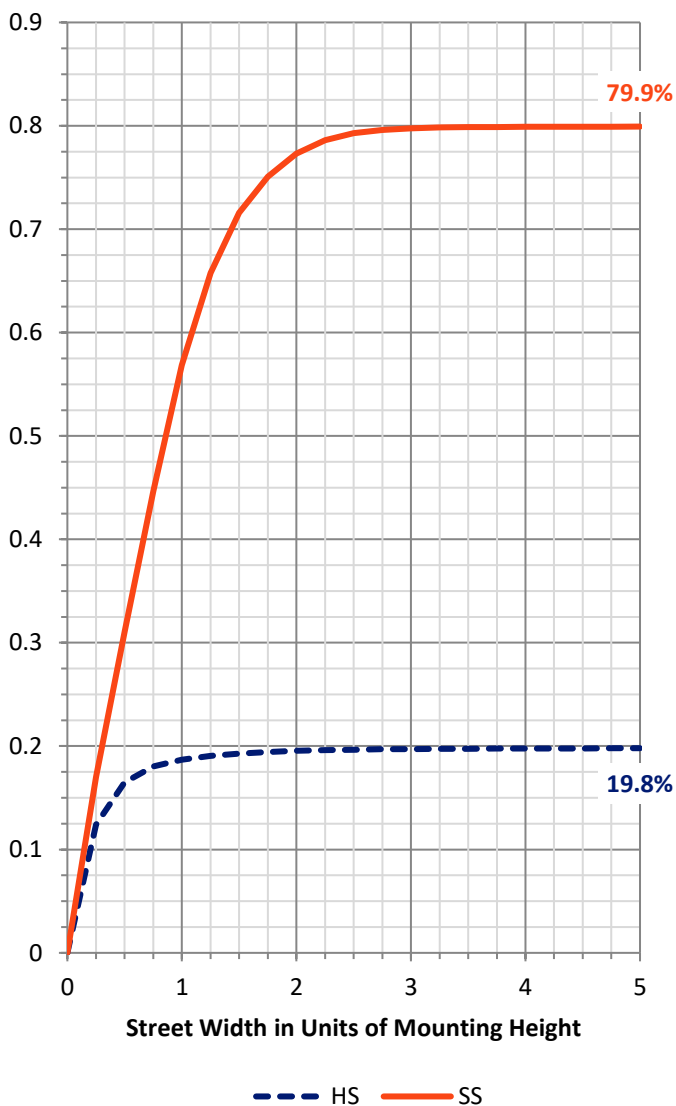
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4272.0	0.0	4272.0
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	17055.8	0.0	17055.8
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	21327.8	0.0	21327.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	788.4	3.7
10°-20°	1566.8	7.3
20°-30°	2353.9	11.0
30°-40°	3533.1	16.6
40°-50°	4965.5	23.3
50°-60°	5356.2	25.1
60°-70°	2486.9	11.7
70°-80°	234.0	1.1
80°-90°	43.1	0.2
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°	21327.8	100.0
0°-180°	21327.8	100.0

**Coefficient of Utilization**



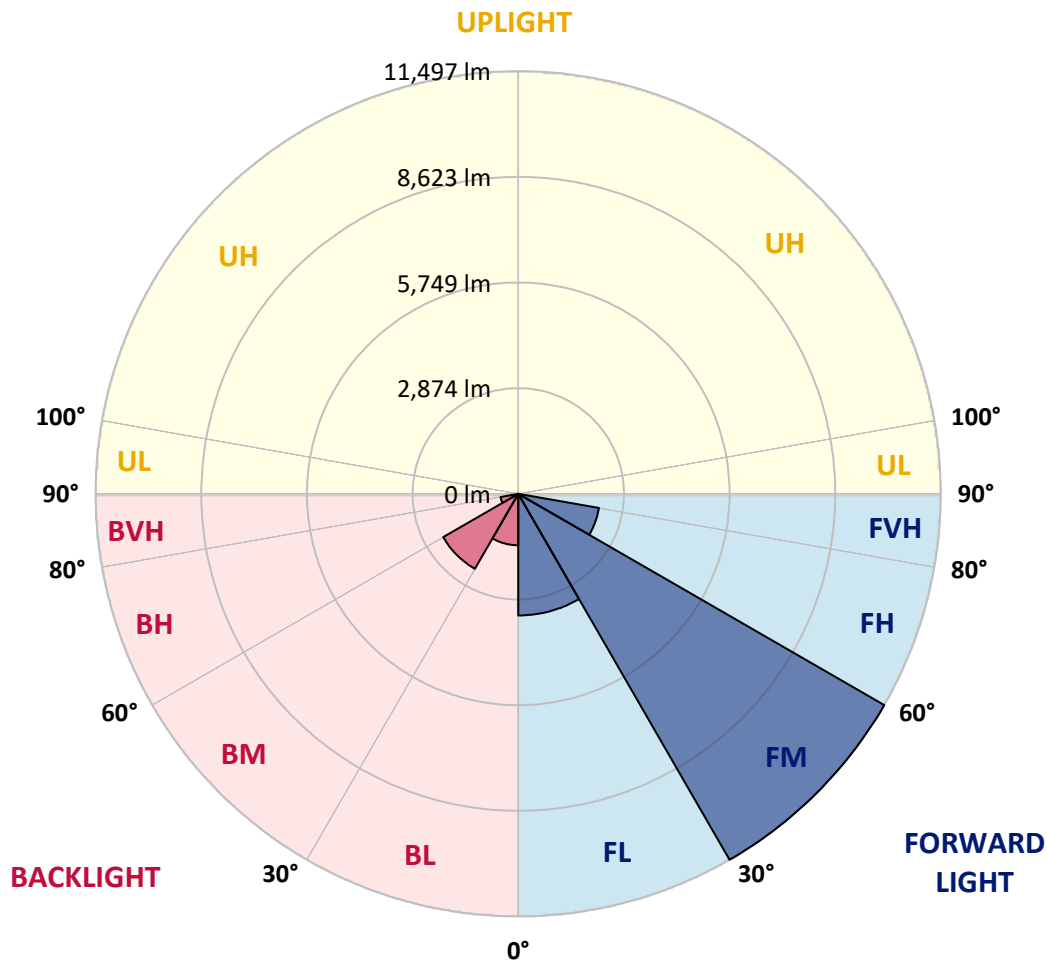
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3308.8	15.5			
FM (30°-60°)	11497.3	53.9			
FH (60°-80°)	2230.3	10.5			G2/5000
FVH (80°-90°)	19.4	0.1			G1/100
BL (0°-30°)	1400.2	6.6	B3/2500		
BM (30°-60°)	2357.5	11.1	B2/2500		
BH (60°-80°)	490.5	2.3	B1/500		G1/500
BVH (80°-90°)	23.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8
2.5°	11243.2	11069.7	10849.7	10667.7	10396.9	9851.1	9703.0	9525.3	9377.2	9178.3	8899.0
5°	10223.4	10168.4	10066.9	9381.4	8886.3	8226.2	7684.5	7456.0	7155.6	6910.2	6732.4
7.5°	9444.9	9224.8	8903.2	8213.5	7422.2	6715.5	6114.6	5763.4	5365.6	5230.2	4989.0
10°	8611.3	8662.0	8188.1	7219.1	6262.7	5691.5	5319.1	4980.6	4620.9	4383.9	4041.2
12.5°	8344.7	8179.6	7815.7	6618.2	5801.5	5268.3	4815.5	4396.6	4015.8	3634.9	3304.9
15°	8518.2	8264.3	7756.5	6491.2	5446.0	4781.7	4214.7	3647.6	3296.4	2809.8	2467.0
17.5°	9140.2	8937.1	8255.8	6626.7	5264.1	4316.2	3474.1	2890.2	2352.8	1912.7	1739.2
20°	10176.9	9889.2	9034.4	6800.1	4993.3	3753.4	2818.2	2098.9	1591.1	1404.9	1307.6
22.5°	11192.4	11035.9	9956.9	7134.4	4752.1	3254.1	2115.8	1413.3	1189.1	1155.2	1091.7
25°	13126.3	12656.6	11365.9	7739.6	4565.9	2784.4	1595.3	1138.3	1007.1	981.7	990.2
27.5°	14277.2	13883.7	12669.2	8141.6	4358.5	2424.7	1349.9	1045.2	956.3	901.3	880.2
30°	15381.7	14924.7	13316.7	8378.5	3914.2	2043.9	1197.5	1002.9	981.7	901.3	875.9
32.5°	16232.2	15783.7	14251.9	8734.0	3732.3	1798.4	986.0	782.8	727.8	719.4	795.5
35°	17535.6	17057.4	15051.6	8928.6	3592.6	1671.5	854.8	698.2	634.7	609.3	613.6
37.5°	18750.0	18424.2	15792.2	9004.8	3444.5	1633.4	765.9	626.3	571.3	554.3	550.1
40°	19765.6	19037.8	16494.6	9085.2	3381.0	1561.5	710.9	571.3	533.2	507.8	507.8
42.5°	20231.1	19490.6	17281.7	9038.6	3364.1	1447.2	710.9	524.7	495.1	469.7	465.5
45°	20129.5	19829.1	17632.9	9017.5	3364.1	1332.9	647.4	512.0	469.7	435.9	427.4
47.5°	20391.9	19998.3	18073.0	9106.3	3296.4	1252.5	545.9	537.4	444.3	402.0	393.5
50°	20438.4	20514.6	18838.9	9567.6	3148.3	1151.0	427.4	528.9	427.4	363.9	355.5
52°	20743.1	20269.2	19071.6	9813.0	2991.7	1074.8	359.7	452.8	410.5	338.5	330.1
52.5°	20324.2	20633.1	19126.6	9901.8	3008.7	1024.0	347.0	444.3	402.0	338.5	317.4
55°	19854.5	20150.7	18902.4	10092.3	2759.0	804.0	270.8	321.6	363.9	296.2	283.5
57.5°	17256.3	17556.7	16426.9	9241.7	2247.0	567.0	224.3	241.2	321.6	275.1	262.4
60°	15339.4	15123.6	13786.4	7709.9	1595.3	317.4	177.7	186.2	351.2	253.9	249.7
62.5°	14019.1	13557.9	11522.5	5953.8	973.3	211.6	139.6	143.9	270.8	237.0	237.0
65°	10371.5	9855.3	7654.9	3601.1	478.2	148.1	105.8	114.3	169.3	203.1	203.1
67.5°	5920.0	5721.1	3698.4	1624.9	198.9	93.1	80.4	88.9	131.2	165.0	156.6
70°	2720.9	2441.6	1421.8	342.8	93.1	63.5	63.5	71.9	105.8	122.7	114.3
72.5°	795.5	753.2	347.0	55.0	38.1	38.1	42.3	55.0	80.4	93.1	84.6
75°	59.2	38.1	25.4	16.9	16.9	25.4	33.9	55.0	80.4	88.9	71.9
77.5°	4.2	8.5	4.2	4.2	12.7	25.4	38.1	67.7	105.8	110.0	80.4
80°	4.2	4.2	0.0	4.2	12.7	25.4	42.3	76.2	118.5	126.9	67.7
82.5°	0.0	0.0	0.0	4.2	16.9	33.9	50.8	80.4	110.0	135.4	71.9
85°	0.0	0.0	0.0	4.2	25.4	46.5	59.2	21.2	12.7	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8
2.5°	9097.9	8987.9	8945.5	8983.6	8970.9	8958.2	9191.0	9140.2	9131.7	9207.9	9191.0
5°	6829.8	6635.1	7168.3	6952.5	7176.8	7312.2	7337.6	7350.3	7506.8	7341.8	7557.6
7.5°	4866.3	4917.1	4912.9	5056.7	5314.9	5543.4	5678.8	5573.0	5564.5	5543.4	5450.3
10°	3888.8	3800.0	3783.0	3749.2	3829.6	4024.2	4189.3	4058.1	3965.0	4091.9	4053.9
12.5°	3177.9	3055.2	2987.5	2852.1	2856.3	2987.5	2987.5	2987.5	3080.6	3152.5	3207.5
15°	2437.4	2335.8	2335.8	2200.4	2170.8	2175.0	2242.7	2251.2	2399.3	2441.6	2462.8
17.5°	1705.3	1650.3	1713.8	1768.8	1734.9	1743.4	1768.8	1777.3	1798.4	1781.5	1823.8
20°	1311.8	1303.3	1320.3	1417.6	1489.5	1531.8	1502.2	1459.9	1434.5	1375.3	1375.3
22.5°	1112.9	1129.8	1159.5	1239.9	1332.9	1358.3	1324.5	1227.2	1151.0	1142.5	1146.8
25°	990.2	1007.1	1053.7	1104.4	1155.2	1197.5	1163.7	1091.7	1049.4	1011.3	1011.3
27.5°	914.0	922.5	947.9	986.0	1028.3	1062.1	1049.4	1011.3	964.8	947.9	909.8
30°	854.8	867.5	897.1	905.6	943.6	960.6	939.4	930.9	901.3	880.2	867.5
32.5°	825.2	820.9	842.1	850.5	854.8	867.5	842.1	854.8	850.5	816.7	804.0
35°	622.0	655.9	710.9	757.5	770.1	787.1	782.8	765.9	719.4	681.3	634.7
37.5°	558.6	579.7	609.3	647.4	698.2	719.4	710.9	668.6	613.6	588.2	579.7
40°	516.3	528.9	554.3	579.7	630.5	668.6	639.0	600.9	558.6	537.4	524.7
42.5°	478.2	482.4	495.1	520.5	558.6	617.8	567.0	516.3	499.3	486.6	478.2
45°	435.9	435.9	452.8	465.5	507.8	562.8	512.0	465.5	457.0	448.5	444.3
47.5°	402.0	406.2	414.7	431.6	465.5	503.6	469.7	431.6	410.5	406.2	397.8
50°	359.7	363.9	380.8	397.8	440.1	461.2	440.1	397.8	376.6	363.9	363.9
52°	325.8	338.5	355.5	389.3	418.9	452.8	427.4	380.8	355.5	342.8	334.3
52.5°	321.6	330.1	347.0	385.1	418.9	448.5	423.2	376.6	347.0	338.5	330.1
55°	287.7	300.4	330.1	376.6	414.7	448.5	414.7	372.4	330.1	308.9	300.4
57.5°	275.1	283.5	321.6	380.8	410.5	448.5	414.7	372.4	330.1	292.0	283.5
60°	262.4	279.3	321.6	368.1	406.2	452.8	418.9	368.1	321.6	275.1	275.1
62.5°	249.7	262.4	317.4	359.7	389.3	435.9	402.0	359.7	308.9	262.4	258.1
65°	215.8	237.0	279.3	300.4	334.3	376.6	342.8	313.1	270.8	232.7	228.5
67.5°	165.0	173.5	207.3	232.7	253.9	292.0	275.1	237.0	207.3	177.7	177.7
70°	114.3	122.7	148.1	160.8	182.0	203.1	190.4	160.8	139.6	122.7	118.5
72.5°	80.4	84.6	93.1	101.6	110.0	118.5	114.3	93.1	80.4	76.2	71.9
75°	63.5	71.9	76.2	71.9	67.7	63.5	63.5	55.0	46.5	42.3	42.3
77.5°	63.5	67.7	63.5	55.0	46.5	42.3	38.1	33.9	25.4	21.2	25.4
80°	55.0	55.0	55.0	46.5	42.3	38.1	33.9	29.6	25.4	21.2	21.2
82.5°	59.2	59.2	55.0	46.5	46.5	38.1	38.1	33.9	29.6	21.2	21.2
85°	0.0	0.0	0.0	8.5	21.2	38.1	38.1	33.9	29.6	25.4	25.4
87.5°	0.0	0.0	0.0	0.0	4.2	8.5	16.9	21.2	25.4	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8
2.5°	9343.3	9504.1	9808.8	10113.4	10299.6	10519.6	10917.4	11129.0	11404.0	11539.4	11806.0
5°	7528.0	7908.8	8044.2	8391.2	8763.6	9136.0	9728.4	10380.0	10921.6	11294.0	11776.4
7.5°	5492.6	5581.5	6106.2	6338.9	6948.3	7625.3	8433.5	9254.4	9939.9	10549.3	10917.4
10°	4117.3	4443.2	4773.2	5217.5	5708.4	6406.6	7181.0	8086.5	8975.2	9584.5	10049.9
12.5°	3309.1	3567.2	4007.3	4485.5	5090.6	5551.8	6330.4	7227.5	8378.5	8975.2	9588.7
15°	2505.1	2835.2	3334.5	3829.6	4468.5	4955.2	5742.3	6872.1	8353.1	9174.0	9703.0
17.5°	1857.7	2081.9	2530.5	3084.8	3736.5	4422.0	5484.1	6834.0	8636.6	9614.1	10160.0
20°	1421.8	1498.0	1781.5	2276.6	2983.3	3880.4	5065.2	6999.0	9474.5	10684.7	11239.0
22.5°	1151.0	1184.8	1294.9	1637.6	2323.1	3406.4	4866.3	7113.3	10418.1	11966.8	12707.3
25°	1002.9	994.4	1066.4	1214.5	1815.3	2962.1	4612.4	7544.9	11573.3	13473.2	14137.6
27.5°	914.0	914.0	947.9	1053.7	1506.4	2674.4	4451.6	7853.8	12737.0	14797.7	15157.4
30°	867.5	875.9	973.3	1007.1	1252.5	2331.6	4185.0	8166.9	13849.9	15644.0	16139.1
32.5°	804.0	770.1	749.0	833.6	1053.7	2022.7	3918.4	8298.1	14751.2	16680.8	17103.9
35°	617.8	600.9	626.3	689.7	905.6	1760.3	3622.2	8446.2	15787.9	17882.6	17967.2
37.5°	558.6	554.3	571.3	626.3	761.7	1531.8	3410.7	8408.1	16579.2	18877.0	18648.5
40°	516.3	516.3	528.9	575.5	681.3	1371.0	3190.6	8374.3	17345.1	19994.1	19325.5
42.5°	482.4	482.4	503.6	533.2	647.4	1265.2	3025.6	8327.7	17988.3	20679.6	19723.3
45°	435.9	448.5	482.4	512.0	655.9	1193.3	2902.9	8150.0	18208.4	20671.2	19532.9
47.5°	402.0	418.9	452.8	495.1	592.4	1172.1	2818.2	7993.5	18132.2	20163.4	18936.2
50°	363.9	385.1	431.6	503.6	503.6	1129.8	2729.4	8133.1	18077.2	19769.8	18365.0
52°	338.5	355.5	414.7	490.9	440.1	1041.0	2674.4	8403.9	18301.5	19719.1	18111.1
52.5°	334.3	347.0	402.0	482.4	418.9	1024.0	2636.3	8467.4	18373.4	19592.1	18284.6
55°	296.2	313.1	368.1	376.6	342.8	842.1	2513.6	8611.3	18018.0	19342.4	18119.5
57.5°	279.3	287.7	325.8	308.9	296.2	634.7	2162.3	8387.0	16003.7	17180.1	16858.5
60°	258.1	266.6	304.7	241.2	249.7	444.3	1624.9	7282.5	12851.2	14315.3	14895.1
62.5°	249.7	245.4	287.7	194.7	211.6	321.6	1146.8	5920.0	9901.8	11784.8	12787.7
65°	220.0	215.8	207.3	165.0	182.0	249.7	685.5	3863.4	6977.9	8915.9	9466.0
67.5°	169.3	177.7	152.3	131.2	152.3	194.7	380.8	1730.7	3660.3	5348.7	5793.0
70°	118.5	126.9	122.7	114.3	135.4	160.8	220.0	592.4	1514.9	2809.8	3097.5
72.5°	71.9	88.9	93.1	97.3	118.5	139.6	156.6	190.4	402.0	994.4	1235.6
75°	42.3	59.2	71.9	84.6	97.3	118.5	131.2	135.4	139.6	186.2	300.4
77.5°	29.6	42.3	63.5	80.4	97.3	118.5	139.6	148.1	139.6	131.2	139.6
80°	25.4	42.3	59.2	76.2	101.6	122.7	139.6	139.6	135.4	118.5	126.9
82.5°	25.4	42.3	63.5	80.4	97.3	118.5	135.4	139.6	126.9	118.5	122.7
85°	29.6	46.5	67.7	84.6	105.8	97.3	88.9	71.9	67.7	55.0	59.2
87.5°	29.6	42.3	42.3	46.5	50.8	50.8	50.8	46.5	38.1	33.9	33.9
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: P651463

CATALOG NUMBER: GALN-SA6D-840-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8	10815.8
2.5°	11818.7	12157.2	12144.5	12153.0	12102.2	11759.5	11594.4	11175.5	11294.0	11243.2
5°	12271.5	12605.8	12893.5	12859.7	12470.4	12004.9	11315.2	10663.5	10485.8	10223.4
7.5°	11818.7	12622.7	12889.3	12851.2	12275.7	11679.1	10578.9	9927.2	9618.3	9444.9
10°	11099.3	12030.3	12360.3	12428.0	12038.7	11133.2	10121.9	9076.7	8911.7	8611.3
12.5°	10688.9	11365.9	11569.0	11751.0	11615.6	10938.6	9774.9	8772.1	8543.6	8344.7
15°	10354.6	10756.6	10841.2	11048.6	11129.0	10765.1	9956.9	9102.1	8539.3	8518.2
17.5°	10663.5	10498.5	10189.6	10253.1	10506.9	10769.3	10426.5	9753.7	9207.9	9140.2
20°	11175.5	10447.7	9749.5	9906.1	10117.7	10921.6	11137.4	10663.5	10350.4	10176.9
22.5°	11763.7	10536.6	9609.9	9686.0	10088.0	11264.4	12288.4	12026.0	11442.1	11192.4
25°	12851.2	10782.0	9719.9	9770.7	10320.8	11742.5	13329.4	13524.0	13177.0	13126.3
27.5°	13913.3	11416.7	9961.1	9846.8	10439.2	12208.0	13959.9	15005.1	14395.7	14277.2
30°	14455.0	11933.0	10320.8	10126.1	10930.1	12491.5	14340.7	15969.9	15436.7	15381.7
32.5°	15284.4	12402.7	10600.0	10350.4	11205.1	12842.7	15051.6	17023.5	16507.3	16232.2
35°	15631.4	12914.7	11213.6	10921.6	11992.2	13333.6	15415.5	17963.0	17802.2	17535.6
37.5°	16299.9	13464.8	11937.2	11920.3	12944.3	13972.6	16071.4	19240.9	19211.3	18750.0
40°	16355.0	14065.7	13079.7	13612.9	14416.9	15085.5	16646.9	19596.3	20078.7	19765.6
42.5°	16439.6	15119.3	15055.9	15495.9	16185.7	16041.8	16668.1	19681.0	20417.3	20231.1
45°	16477.7	16173.0	17065.9	17878.3	18166.1	17294.4	16469.2	19520.2	20595.0	20129.5
47.5°	16173.0	17078.6	18690.8	20260.7	20345.3	18064.5	16384.6	19355.1	20700.8	20391.9
50°	16215.3	17645.6	20095.7	21500.6	21191.6	18745.8	16253.4	19253.6	20645.8	20438.4
52°	16113.8	17658.3	20294.6	21475.2	21259.4	18369.2	16029.1	18864.3	20595.0	20743.1
52.5°	16228.0	17582.1	20087.2	21492.1	21212.8	18555.4	15999.5	19080.1	20624.6	20324.2
55°	15834.5	16676.6	18872.7	19469.4	19427.1	16841.6	15089.7	18365.0	19850.2	19854.5
57.5°	14311.1	14455.0	14802.0	14789.3	14594.6	13240.5	12906.2	16888.1	17696.4	17256.3
60°	12610.0	10583.1	9648.0	9267.1	9051.3	8831.3	11416.7	15449.4	15525.6	15339.4
62.5°	10896.2	7337.6	6093.5	5987.7	6038.5	6842.5	11035.9	14878.1	14421.1	14019.1
65°	8793.2	5348.7	4426.2	4286.6	4781.7	5649.2	8932.8	11408.2	10705.8	10371.5
67.5°	5522.2	3901.5	2991.7	2729.4	3326.0	3888.8	5869.2	7168.3	6381.2	5920.0
70°	3275.2	2179.3	1354.1	1214.5	1366.8	2073.5	3287.9	3575.7	2957.9	2720.9
72.5°	1290.6	799.8	376.6	321.6	334.3	727.8	1210.2	1180.6	892.9	795.5
75°	347.0	241.2	131.2	105.8	88.9	135.4	194.7	126.9	46.5	59.2
77.5°	160.8	143.9	114.3	88.9	67.7	50.8	25.4	8.5	8.5	4.2
80°	139.6	122.7	105.8	88.9	67.7	42.3	21.2	4.2	4.2	4.2
82.5°	131.2	114.3	97.3	80.4	63.5	42.3	21.2	4.2	0.0	0.0
85°	55.0	71.9	80.4	76.2	67.7	42.3	21.2	4.2	0.0	0.0
87.5°	29.6	25.4	21.2	16.9	12.7	8.5	8.5	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

(END OF REPORT)