

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: P652449

Luminaire Tested: **GALN-SA6B-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-840-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15688 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G1

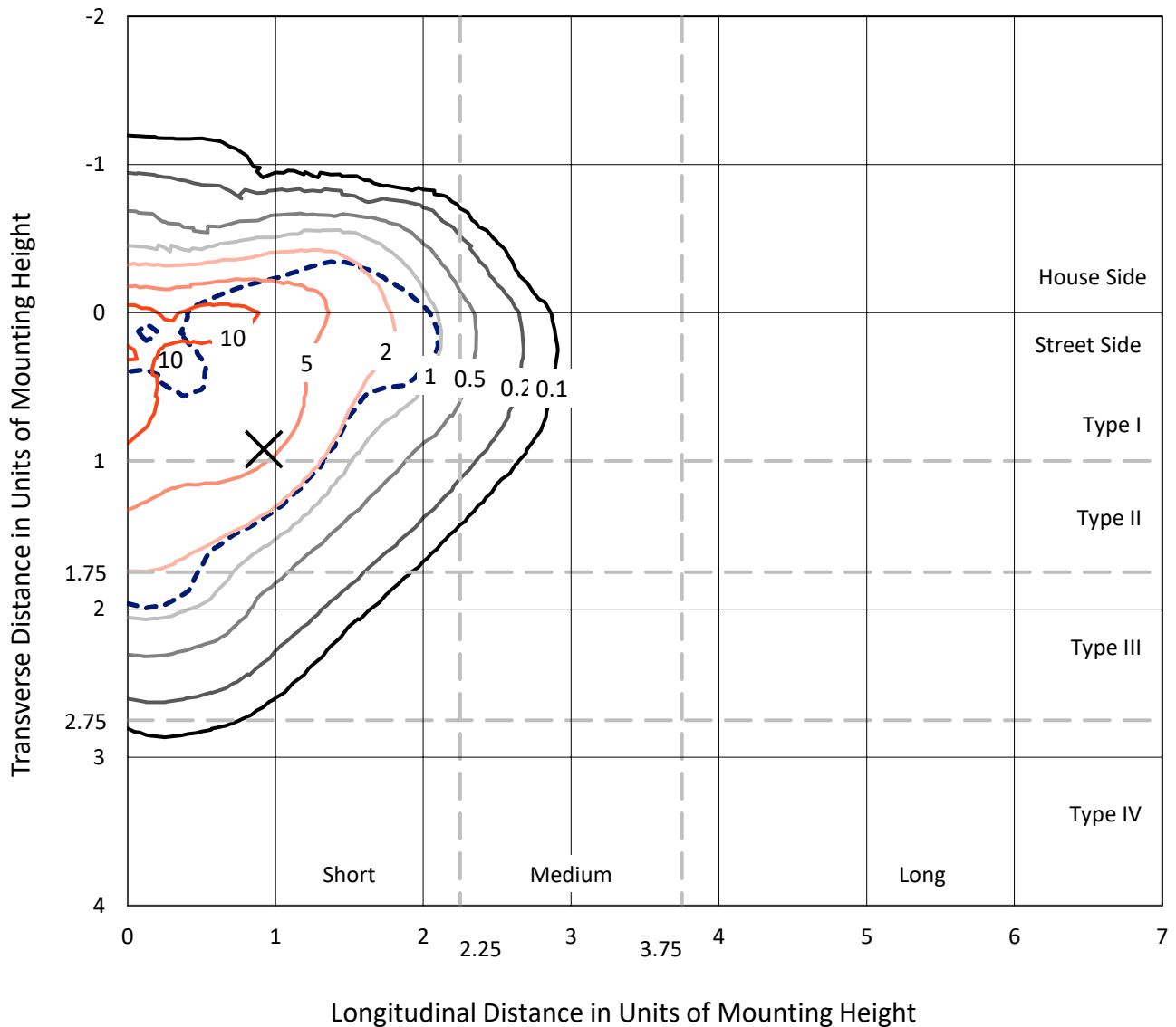
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

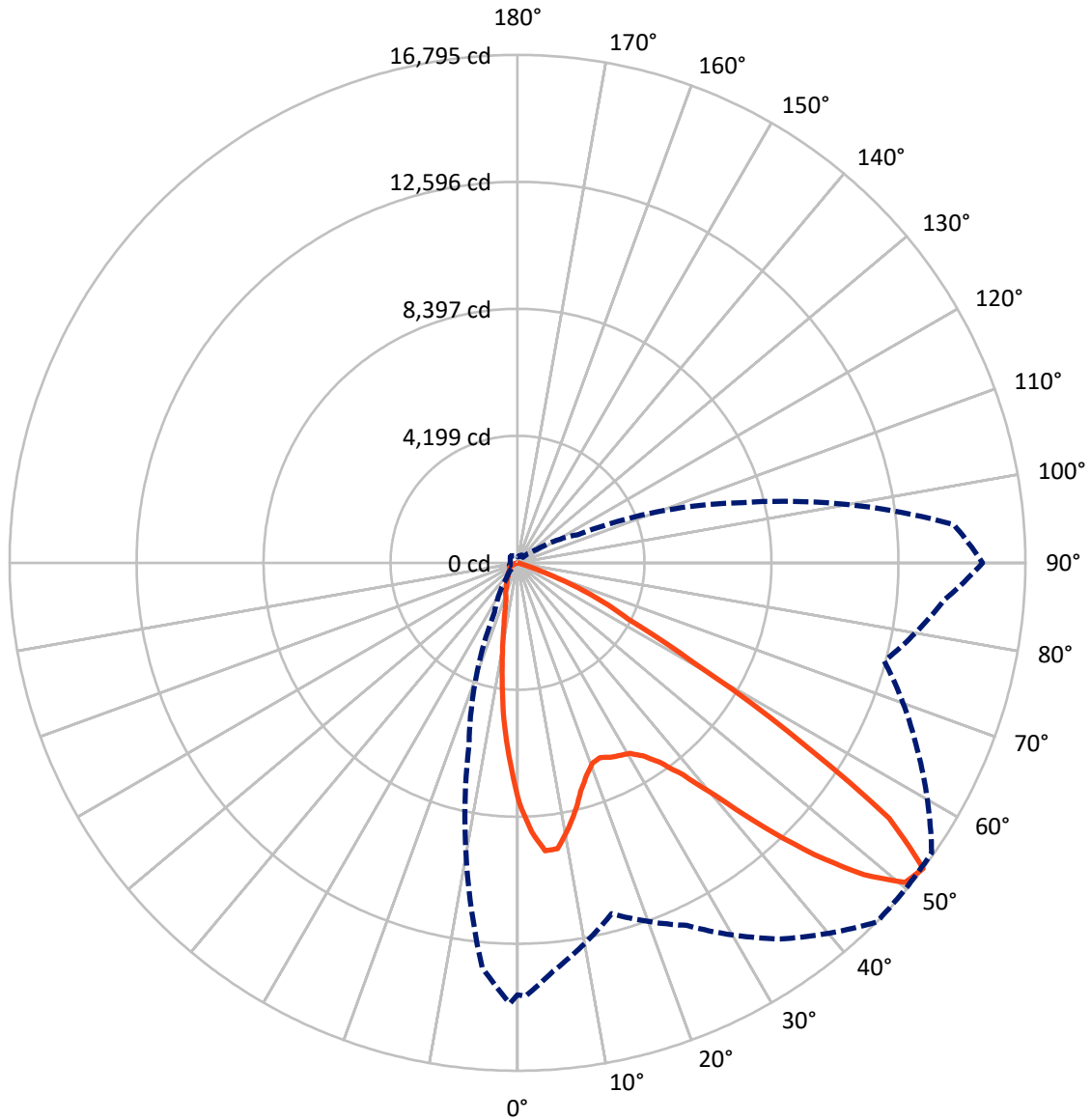
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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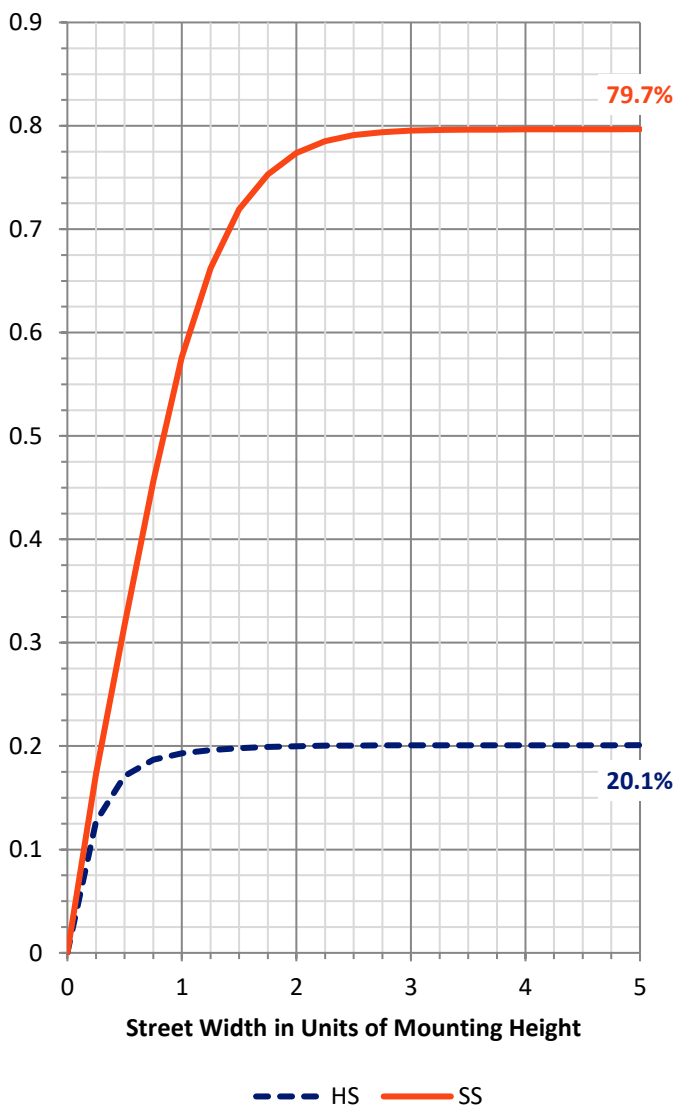
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3183.9	0.0	3183.9
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	12504.1	0.0	12504.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	15688.0	0.0	15688.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.1	3.7
10°-20°	1144.5	7.3
20°-30°	1741.8	11.1
30°-40°	2603.3	16.6
40°-50°	3707.4	23.6
50°-60°	3985.3	25.4
60°-70°	1766.0	11.3
70°-80°	142.9	0.9
80°-90°	16.7	0.1
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°	15688.0	100.0
0°-180°	15688.0	100.0

**Coefficient of Utilization**



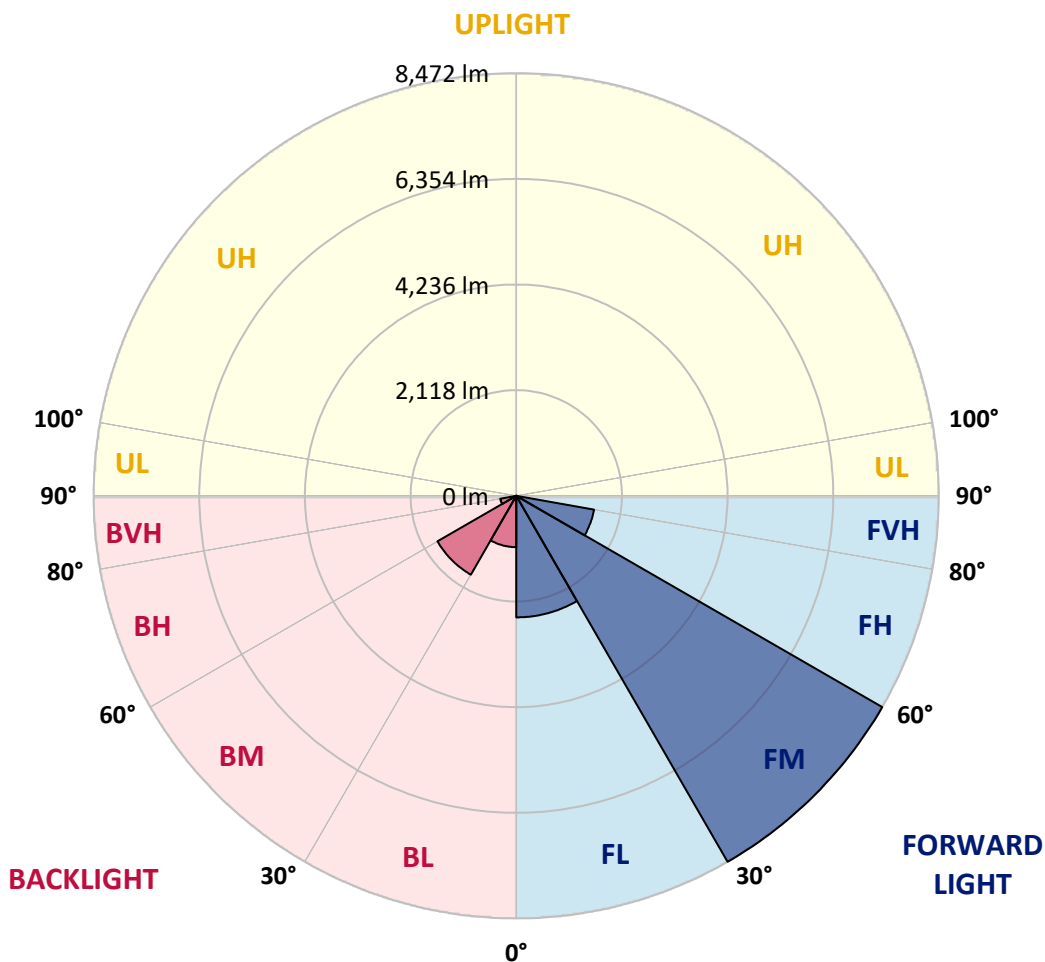
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2436.7	15.5			
FM (30°-60°)	8472.0	54.0			
FH (60°-80°)	1583.1	10.1			G1/1800
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	1029.8	6.6	B3/2500		
BM (30°-60°)	1824.0	11.6	B2/2500		
BH (60°-80°)	325.8	2.1	B1/500		G1/500
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5
2.5°	8417.4	8442.0	8577.9	8747.6	8837.1	9040.7	8898.7	8935.8	8858.6	8587.1	8374.2
5°	8161.3	8158.2	8331.0	8750.6	9148.7	9552.8	9565.2	9349.2	8969.7	8553.1	7957.6
7.5°	7389.9	7510.2	7689.2	8358.8	9096.2	9398.6	9543.6	9290.6	8707.5	8111.9	7467.1
10°	6806.7	6868.4	7170.8	7979.2	8519.2	8923.4	9012.9	8867.8	8420.5	7676.8	6954.8
12.5°	6470.4	6501.3	6856.1	7534.9	8105.7	8405.0	8448.3	8516.1	8195.2	7497.9	6630.9
15°	6473.5	6498.2	6976.4	7544.2	7769.4	7689.2	7831.1	7828.0	7966.9	7464.0	6902.3
17.5°	6939.4	6967.2	7399.1	7679.9	7581.2	7393.0	7383.7	7525.7	7818.8	7886.6	7312.7
20°	7741.7	7806.4	8124.2	8108.8	7553.4	7173.9	7069.0	7177.0	7858.9	8244.6	8139.7
22.5°	8821.6	8911.1	9133.3	8707.5	7679.9	7025.8	6991.8	7201.7	8124.2	9043.8	9077.7
25°	10074.3	10225.6	10333.5	9787.4	8130.5	7281.9	7121.4	7482.5	8482.2	9910.8	10271.8
27.5°	10904.3	11061.7	11037.0	10256.4	8432.8	7349.8	7214.0	7550.3	8793.8	10117.5	10895.1
30°	11552.3	11647.9	11820.8	10509.4	8735.2	7541.1	7309.6	7837.3	8895.7	10475.4	11647.9
32.5°	12308.3	12373.0	12385.4	10956.8	9201.1	7781.8	7605.9	8195.2	9346.1	10818.0	12314.4
35°	13070.4	13166.0	12965.5	11509.1	9488.1	8229.2	8099.6	8815.4	9707.2	11172.8	13048.8
37.5°	13897.4	13946.7	13483.8	11737.4	9898.5	8957.3	8886.4	9485.0	10333.5	11814.5	13863.4
40°	14591.6	14637.9	14036.2	12018.2	10330.4	9975.6	10157.6	10762.4	11185.1	12231.2	14270.7
42.5°	14977.3	15085.3	14221.3	11864.0	11197.5	11129.6	11938.0	12150.9	12172.5	12348.4	14634.7
45°	15082.2	15032.8	13915.9	11990.5	11956.5	13027.2	13761.5	14042.3	13153.7	12564.4	14727.3
47.5°	14597.7	14662.6	13465.3	11879.4	12953.2	14465.0	15415.4	15936.9	13885.0	12376.2	14499.0
50°	14205.9	14122.6	13320.3	11799.1	13221.6	15143.9	16609.5	16726.8	14557.6	12607.6	14249.1
52.5°	14283.0	14335.4	13551.7	12012.1	13227.8	15184.0	16794.7	16714.5	14579.2	12555.1	14159.6
55°	14446.5	14215.2	13453.0	11543.1	12342.2	14064.0	14906.3	14782.8	13456.1	11996.6	13940.5
57.5°	12465.6	12823.6	12370.0	10305.8	10129.8	10595.8	10580.4	10959.9	10037.3	10324.3	12690.9
60°	10117.5	10179.2	10348.9	8815.4	7010.4	6849.9	6627.8	6387.1	6754.2	8827.7	11543.1
62.5°	8898.7	8824.7	9429.5	8019.4	4949.2	4143.9	4106.9	4255.0	5211.5	8420.5	10827.2
65°	6467.3	6559.9	6998.0	6223.6	3715.0	3162.7	3107.2	3545.3	4218.0	6748.1	8263.1
67.5°	3949.5	4128.5	4168.6	3838.4	2520.9	2002.5	1922.3	2320.3	3045.4	4366.1	4844.3
70°	1823.5	2039.5	2243.2	2095.1	1459.5	823.8	777.6	975.1	1536.6	2511.6	2570.3
72.5°	552.3	555.4	777.6	811.5	472.1	185.1	163.6	216.0	521.4	830.0	873.2
75°	40.1	43.2	104.9	120.3	89.5	46.3	49.4	58.6	111.1	185.1	138.8
77.5°	3.1	3.1	3.1	15.4	27.8	30.9	40.1	46.3	58.6	67.9	61.7
80°	3.1	0.0	3.1	12.4	21.6	30.9	37.0	43.2	46.3	52.5	46.3
82.5°	0.0	0.0	0.0	9.3	21.6	30.9	34.0	46.3	52.5	61.7	52.5
85°	0.0	0.0	0.0	9.3	21.6	34.0	30.9	15.4	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5
2.5°	8411.2	8290.9	8016.2	7877.4	7550.3	7504.1	7183.1	7130.7	7022.7	6964.1	6822.2
5°	7695.4	7550.3	7102.9	6726.5	6288.3	5982.9	5748.4	5535.5	5412.1	5297.9	5350.4
7.5°	7112.2	6689.5	6192.7	5563.2	5057.2	4730.1	4372.2	4079.1	3906.3	3789.0	3816.8
10°	6501.3	6226.7	5535.5	4828.9	4218.0	3986.5	3705.8	3480.5	3236.8	3026.9	2928.2
12.5°	6309.9	5902.6	5035.7	4316.7	3853.9	3628.6	3307.7	3048.5	2736.9	2480.8	2391.3
15°	6343.9	5952.0	4899.8	4131.6	3585.4	3196.6	2814.0	2493.1	2150.6	1971.6	1879.1
17.5°	6896.2	6217.3	4989.3	3937.1	3212.0	2672.1	2200.0	1792.7	1536.6	1351.5	1311.4
20°	7575.1	6791.3	5180.6	3795.3	2906.6	2126.0	1607.6	1255.8	1042.9	1012.1	1002.8
22.5°	8568.6	7729.3	5591.1	3699.6	2533.3	1656.9	1101.5	913.3	854.7	848.5	851.6
25°	9957.1	8904.9	6038.5	3619.3	2252.5	1277.4	901.0	774.5	756.0	746.7	762.1
27.5°	10558.8	9614.6	6276.0	3446.6	1996.4	1150.9	888.6	768.3	715.9	700.4	709.6
30°	11302.4	10086.7	6649.4	3150.4	1619.9	947.3	830.0	836.2	811.5	734.4	709.6
32.5°	12289.8	10676.0	6837.6	2940.6	1447.1	783.7	607.9	558.5	623.3	635.6	657.2
35°	12922.3	11274.6	6933.2	2817.1	1357.6	669.6	515.3	469.0	453.6	456.7	469.0
37.5°	14097.9	12083.0	7053.6	2687.5	1289.8	583.1	465.9	422.7	401.2	401.2	413.4
40°	14801.4	12724.8	7217.1	2616.5	1221.9	530.8	422.7	385.7	367.2	367.2	373.3
42.5°	14977.3	13042.6	7161.5	2591.9	1144.8	518.4	385.7	357.9	336.3	333.2	330.2
45°	15292.0	13527.1	7170.8	2564.1	1064.5	472.1	364.1	333.2	302.4	299.3	296.2
47.5°	15637.6	13875.7	7189.4	2456.1	987.4	394.9	379.5	308.6	271.6	265.3	265.3
50°	15341.4	14153.4	7349.8	2348.1	888.6	320.9	373.3	290.1	240.7	231.4	234.5
52.5°	15378.4	14480.5	7689.2	2196.9	765.2	256.1	302.4	274.6	219.1	203.6	206.7
55°	14786.0	14134.9	7735.5	2036.5	598.6	197.5	231.4	240.7	185.1	179.0	179.0
57.5°	12727.9	11968.9	6825.2	1650.8	394.9	163.6	166.6	209.8	160.5	154.2	157.4
60°	10892.0	9608.4	5492.3	1089.2	246.8	129.6	120.3	212.9	142.0	138.8	148.1
62.5°	9929.3	7895.9	4165.5	675.7	169.7	98.7	83.3	172.8	123.5	123.5	135.7
65°	7173.9	5304.1	2422.2	354.8	120.3	77.1	61.7	98.7	101.8	104.9	111.1
67.5°	4443.2	2678.2	1021.3	172.8	80.2	52.5	40.1	61.7	67.9	67.9	74.1
70°	2193.8	1067.6	339.4	98.7	61.7	43.2	27.8	34.0	34.0	30.9	34.0
72.5°	678.9	320.9	86.4	61.7	43.2	27.8	15.4	12.4	6.1	0.0	3.1
75°	77.1	61.7	55.5	43.2	27.8	12.4	3.1	0.0	0.0	0.0	0.0
77.5°	46.3	52.5	52.5	43.2	27.8	9.3	0.0	0.0	0.0	0.0	0.0
80°	37.0	40.1	43.2	40.1	24.7	12.4	0.0	0.0	0.0	0.0	0.0
82.5°	46.3	52.5	58.6	52.5	34.0	15.4	6.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.3	3.1	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°	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5
2.5°	6763.5	6695.6	6791.3	6649.4	6646.3	6649.4	6609.3	6572.2	6630.9	6788.2	6803.6
5°	5162.1	5307.1	5353.5	5504.6	5421.3	5297.9	5322.6	5239.3	5443.0	5532.4	5461.5
7.5°	3758.2	3748.9	4060.6	4079.1	4119.2	4122.3	4116.1	3952.6	3786.0	3823.0	3934.1
10°	2915.8	2758.5	2909.7	2894.2	2993.0	2965.2	3005.3	2829.5	2888.1	2888.1	2959.1
12.5°	2375.9	2209.2	2181.5	2141.4	2181.5	2196.9	2212.3	2178.4	2277.2	2323.4	2372.8
15°	1814.3	1721.8	1697.1	1619.9	1632.3	1675.4	1712.4	1727.9	1697.1	1768.0	1774.2
17.5°	1317.5	1314.5	1329.9	1326.8	1314.5	1305.1	1302.1	1262.0	1249.6	1255.8	1280.5
20°	999.7	1024.4	1076.8	1129.3	1157.0	1123.2	1076.8	1008.9	981.2	987.4	990.4
22.5°	854.7	891.7	962.7	1021.3	1049.1	987.4	904.1	845.5	833.1	830.0	827.0
25°	774.5	817.7	870.1	888.6	885.6	848.5	786.8	762.1	756.0	749.8	722.0
27.5°	731.2	746.7	756.0	777.6	786.8	762.1	746.7	709.6	703.5	703.5	685.0
30°	706.6	697.4	709.6	694.2	706.6	688.1	691.1	691.1	675.7	681.9	681.9
32.5°	657.2	660.3	660.3	629.5	638.7	617.1	638.7	657.2	660.3	663.4	688.1
35°	481.3	536.9	564.6	564.6	573.9	558.5	555.4	533.8	506.0	478.3	465.9
37.5°	422.7	444.3	481.3	502.9	518.4	506.0	478.3	444.3	428.9	416.5	404.2
40°	376.4	394.9	419.7	444.3	475.2	459.8	416.5	401.2	382.6	382.6	370.3
42.5°	339.4	348.7	364.1	401.2	435.0	404.2	373.3	361.0	351.8	348.7	345.6
45°	305.5	308.6	324.0	354.8	394.9	364.1	333.2	317.8	320.9	324.0	320.9
47.5°	274.6	280.8	290.1	327.1	351.8	336.3	302.4	293.1	293.1	293.1	296.2
50°	237.6	253.1	271.6	302.4	320.9	311.7	283.8	271.6	265.3	265.3	268.4
52.5°	212.9	225.2	249.9	286.9	311.7	296.2	268.4	249.9	237.6	234.5	240.7
55°	185.1	206.7	246.8	274.6	308.6	293.1	262.3	240.7	219.1	216.0	216.0
57.5°	166.6	200.6	237.6	271.6	299.3	286.9	262.3	234.5	206.7	203.6	203.6
60°	157.4	194.4	231.4	262.3	299.3	280.8	259.2	228.3	197.5	197.5	194.4
62.5°	148.1	182.1	219.1	249.9	286.9	271.6	249.9	219.1	188.2	188.2	182.1
65°	123.5	157.4	182.1	209.8	249.9	234.5	212.9	191.3	166.6	160.5	163.6
67.5°	86.4	108.0	132.7	160.5	185.1	179.0	169.7	154.2	132.7	129.6	126.5
70°	43.2	58.6	80.2	108.0	129.6	123.5	117.2	104.9	92.6	89.5	89.5
72.5°	6.1	18.5	34.0	49.4	67.9	71.0	67.9	64.8	61.7	58.6	61.7
75°	0.0	0.0	0.0	12.4	27.8	34.0	40.1	46.3	46.3	40.1	49.4
77.5°	0.0	0.0	0.0	0.0	3.1	15.4	30.9	40.1	49.4	43.2	58.6
80°	0.0	0.0	0.0	0.0	3.1	18.5	30.9	43.2	49.4	43.2	61.7
82.5°	0.0	0.0	0.0	0.0	3.1	21.6	30.9	40.1	46.3	43.2	55.5
85°	0.0	0.0	0.0	0.0	9.3	18.5	12.4	6.1	3.1	3.1	9.3
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: P652449

CATALOG NUMBER: GALN-SA6B-840-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5	7954.5
2.5°	6890.1	7109.1	7343.6	7433.1	7710.8	7920.6	8062.6	8368.0	8414.3	8417.4
5°	5535.5	5646.6	6047.7	6235.9	6649.4	6970.3	7312.7	7806.4	8136.6	8161.3
7.5°	3934.1	4242.6	4412.3	4902.9	5412.1	5915.0	6424.1	6998.0	7380.6	7389.9
10°	3165.8	3366.4	3668.7	4035.9	4464.8	4977.0	5655.8	6322.3	6711.1	6806.7
12.5°	2548.7	2900.4	3246.0	3625.6	3952.6	4338.3	5069.5	5958.2	6279.1	6470.4
15°	1962.4	2283.3	2690.6	3134.9	3505.2	4020.5	4853.6	5868.8	6408.7	6473.5
17.5°	1447.1	1734.1	2110.5	2530.1	3085.5	3816.8	4890.6	6322.3	6831.4	6939.4
20°	1039.8	1206.4	1502.7	1990.1	2696.8	3579.2	4927.6	6782.1	7556.6	7741.7
22.5°	823.8	891.7	1086.2	1518.1	2261.7	3329.4	5189.9	7661.4	8553.1	8821.6
25°	715.9	752.9	845.5	1197.2	1987.1	3304.6	5609.6	8716.7	9879.9	10074.3
27.5°	691.1	697.4	777.6	1098.4	1839.0	3141.1	5770.0	9466.5	10706.9	10904.3
30°	728.2	827.0	833.1	928.7	1564.3	2817.1	5853.3	10191.6	11407.3	11552.3
32.5°	629.5	598.6	620.2	719.0	1376.1	2628.9	6010.6	10824.1	12206.4	12308.3
35°	438.2	459.8	509.1	623.3	1203.4	2431.4	6050.7	11521.4	12965.5	13070.4
37.5°	404.2	416.5	456.7	530.8	1058.3	2320.3	5995.2	12030.6	13752.3	13897.4
40°	376.4	391.9	413.4	481.3	950.3	2196.9	5918.1	12490.3	14233.7	14591.6
42.5°	354.8	367.2	385.7	459.8	857.8	2073.5	5810.1	13138.3	14665.6	14977.3
45°	330.2	348.7	370.3	447.4	805.3	1990.1	5729.9	13098.2	14915.6	15082.2
47.5°	305.5	336.3	361.0	416.5	789.9	1950.0	5763.8	12946.9	14711.9	14597.7
50°	280.8	320.9	364.1	345.6	752.9	1869.9	5803.9	13153.7	14227.4	14205.9
52.5°	259.2	305.5	339.4	283.8	669.6	1792.7	6192.7	13425.2	14570.0	14283.0
55°	228.3	274.6	271.6	228.3	543.0	1734.1	6498.2	13431.4	14338.5	14446.5
57.5°	206.7	243.7	212.9	191.3	401.2	1450.2	6001.4	11262.3	12274.3	12465.6
60°	191.3	237.6	160.5	151.2	262.3	1046.0	5239.3	8722.9	9756.5	10117.5
62.5°	175.9	225.2	126.5	123.5	182.1	743.6	4307.4	7300.4	8408.1	8898.7
65°	154.2	160.5	101.8	95.6	129.6	401.2	2622.7	5026.4	6285.3	6467.3
67.5°	126.5	123.5	83.3	77.1	86.4	194.4	1157.0	2517.8	3644.1	3949.5
70°	101.8	101.8	71.0	61.7	61.7	89.5	302.4	1002.8	1647.7	1823.5
72.5°	74.1	77.1	55.5	49.4	46.3	43.2	49.4	200.6	431.9	552.3
75°	64.8	67.9	55.5	43.2	34.0	27.8	21.6	18.5	24.7	40.1
77.5°	71.0	71.0	58.6	40.1	30.9	21.6	12.4	6.1	6.1	3.1
80°	89.5	92.6	77.1	52.5	37.0	24.7	15.4	6.1	3.1	3.1
82.5°	95.6	104.9	86.4	64.8	46.3	27.8	15.4	3.1	0.0	0.0
85°	24.7	40.1	67.9	58.6	46.3	27.8	15.4	3.1	0.0	0.0
87.5°	0.0	3.1	9.3	9.3	12.4	12.4	9.3	3.1	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)