

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: P530419

Luminaire Tested: **GALN-SA5C-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530419
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-SA5C-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA 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: 14309 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

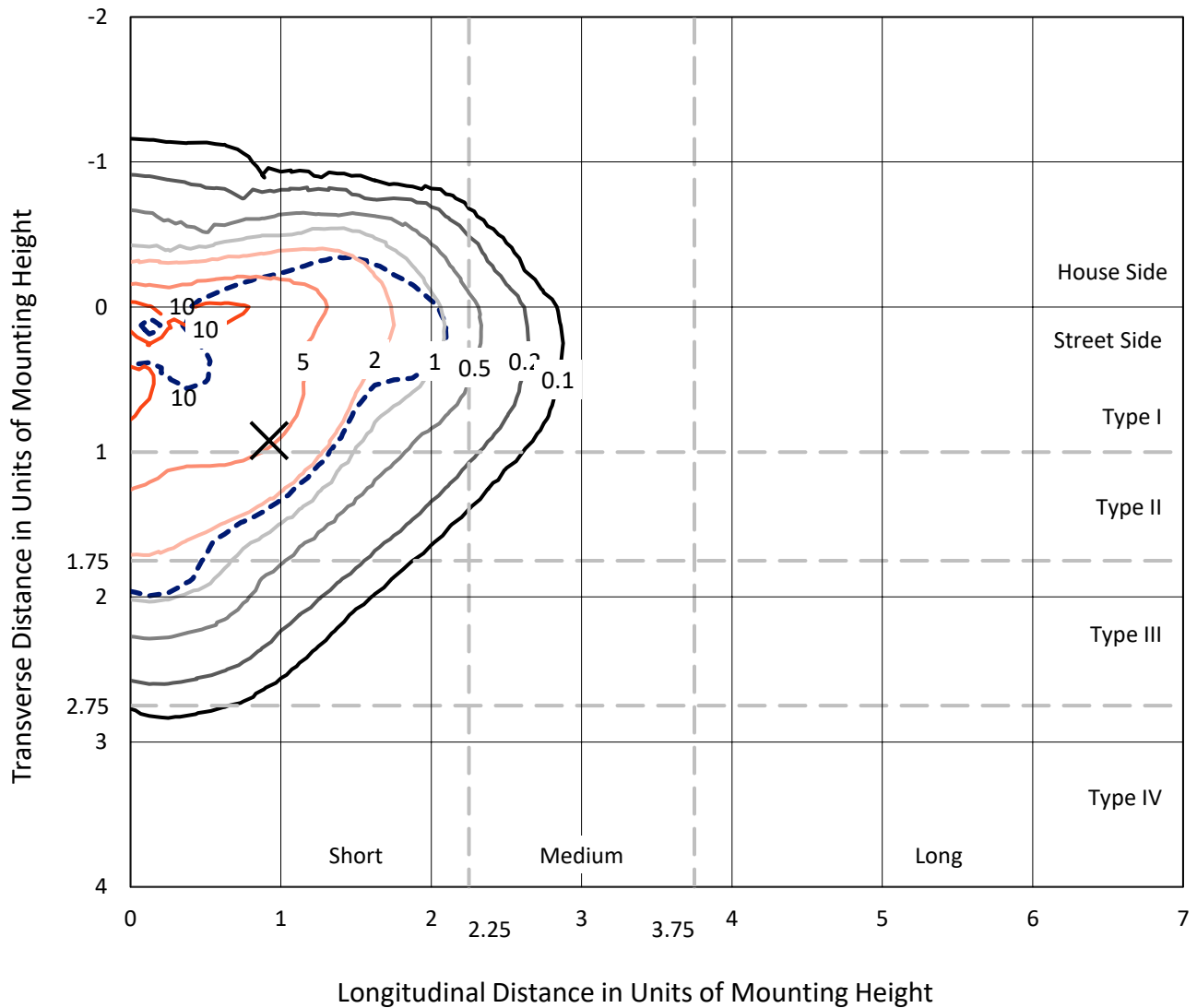
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

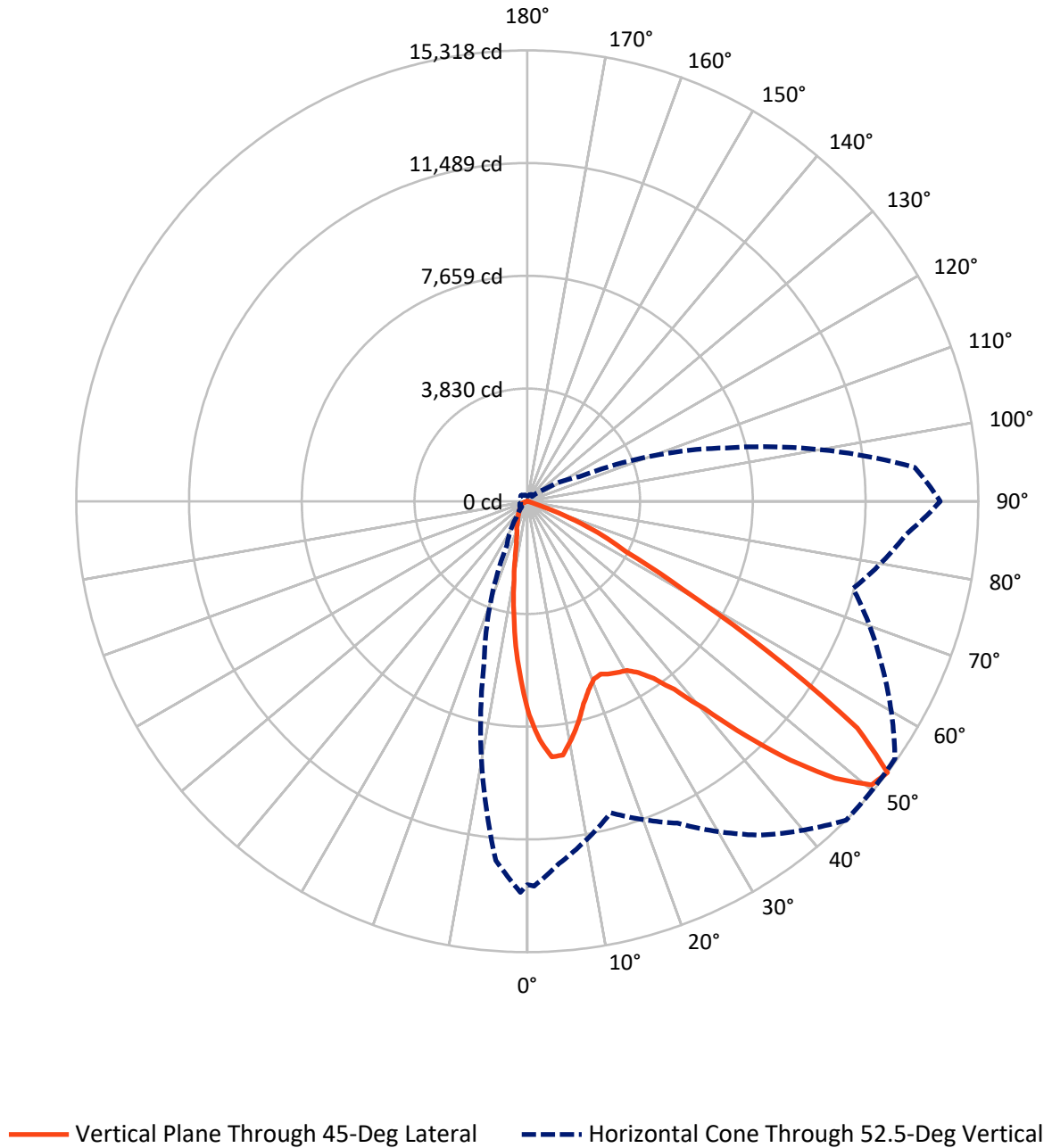
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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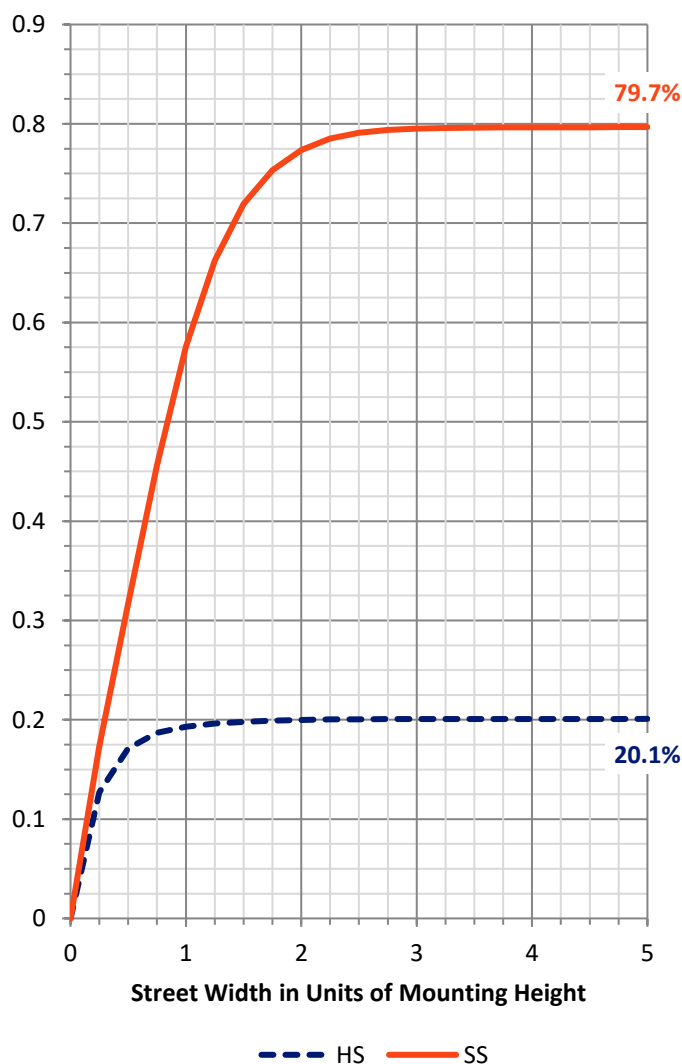
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2904.0	0.0	2904.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11405.0	0.0	11405.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	14309.0	0.0	14309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.1	3.7
10°-20°	1043.9	7.3
20°-30°	1588.7	11.1
30°-40°	2374.5	16.6
40°-50°	3381.5	23.6
50°-60°	3635.0	25.4
60°-70°	1610.8	11.3
70°-80°	130.3	0.9
80°-90°	15.2	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°	14309.0	100.0
0°-180°	14309.0	100.0

Coefficient of Utilization

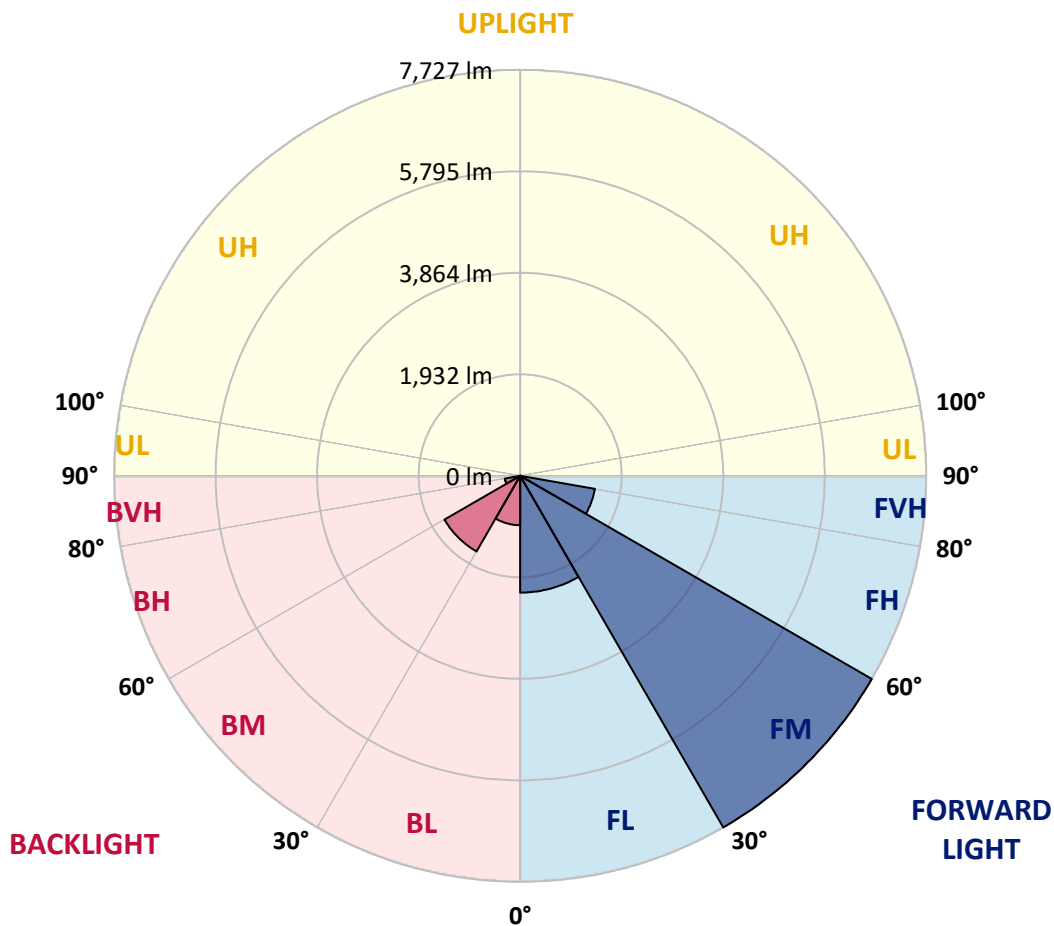


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2222.5	15.5			
FM (30°-60°)	7727.3	54.0			
FH (60°-80°)	1444.0	10.1			G1/1800
FVH (80°-90°)	11.2	0.1			G1/100
BL (0°-30°)	939.3	6.6	B2/1000		
BM (30°-60°)	1663.7	11.6	B2/2500		
BH (60°-80°)	297.1	2.1	B1/500		G1/500
BVH (80°-90°)	3.9	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3
2.5°	7677.5	7700.0	7823.8	7978.6	8060.2	8246.0	8116.5	8150.3	8079.9	7832.3	7638.1
5°	7443.9	7441.1	7598.7	7981.4	8344.5	8713.1	8724.4	8527.4	8181.2	7801.3	7258.1
7.5°	6740.3	6850.1	7013.3	7624.0	8296.6	8572.4	8704.7	8473.9	7942.0	7398.9	6810.7
10°	6208.4	6264.7	6540.5	7277.8	7770.3	8139.0	8220.6	8088.4	7680.3	7002.0	6343.5
12.5°	5901.6	5929.8	6253.4	6872.6	7393.2	7666.2	7705.6	7767.5	7474.8	6838.8	6048.0
15°	5904.5	5927.0	6363.2	6881.0	7086.5	7013.3	7142.8	7139.9	7266.6	6807.9	6295.6
17.5°	6329.4	6354.7	6748.7	7004.9	6914.8	6743.1	6734.7	6864.1	7131.5	7193.4	6669.9
20°	7061.1	7120.2	7410.1	7396.0	6889.5	6543.3	6447.6	6546.1	7168.1	7519.9	7424.2
22.5°	8046.2	8127.8	8330.4	7942.0	7004.9	6408.2	6377.3	6568.6	7410.1	8248.8	8279.7
25°	9188.8	9326.7	9425.2	8927.0	7415.7	6641.8	6495.5	6824.7	7736.6	9039.6	9368.9
27.5°	9945.8	10089.4	10066.8	9354.8	7691.5	6703.7	6579.9	6886.7	8020.8	9228.2	9937.4
30°	10536.8	10624.1	10781.7	9585.6	7967.4	6878.2	6667.1	7148.4	8113.7	9554.6	10624.1
32.5°	11226.3	11285.4	11296.7	9993.7	8392.3	7097.7	6937.3	7474.8	8524.6	9867.0	11232.0
35°	11921.5	12008.7	11825.8	10497.4	8654.0	7505.8	7387.6	8040.5	8853.9	10190.7	11901.8
37.5°	12675.7	12720.7	12298.6	10705.7	9028.4	8170.0	8105.3	8651.2	9425.2	10776.0	12644.8
40°	13308.9	13351.2	12802.4	10961.8	9422.4	9098.7	9264.8	9816.4	10201.9	11156.0	13016.3
42.5°	13660.7	13759.2	12971.2	10821.1	10213.2	10151.3	10888.6	11082.8	11102.5	11262.9	13348.3
45°	13756.4	13711.4	12692.6	10936.5	10905.5	11882.1	12551.9	12808.0	11997.5	11459.9	13432.8
47.5°	13314.6	13373.7	12281.7	10835.1	11814.5	13193.6	14060.4	14536.0	12664.5	11288.3	13224.5
50°	12957.1	12881.2	12149.4	10762.0	12059.4	13812.7	15149.5	15256.5	13278.0	11499.3	12996.5
52.5°	13027.5	13075.4	12360.5	10956.2	12065.0	13849.3	15318.4	15245.2	13297.7	11451.5	12914.9
55°	13176.7	12965.6	12270.5	10528.4	11257.3	12827.7	13596.0	13483.4	12273.3	10942.1	12715.1
57.5°	11369.9	11696.3	11282.6	9399.8	9239.4	9664.4	9650.3	9996.5	9155.0	9416.7	11575.3
60°	9228.2	9284.5	9439.2	8040.5	6394.1	6247.8	6045.2	5825.7	6160.6	8051.8	10528.4
62.5°	8116.5	8049.0	8600.6	7314.4	4514.2	3779.6	3745.9	3881.0	4753.4	7680.3	9875.5
65°	5898.8	5983.3	6382.9	5676.5	3388.4	2884.7	2834.0	3233.7	3847.2	6154.9	7536.8
67.5°	3602.3	3765.6	3802.2	3501.0	2299.3	1826.5	1753.3	2116.4	2777.7	3982.3	4418.5
70°	1663.3	1860.3	2046.0	1910.9	1331.2	751.4	709.2	889.3	1401.5	2290.9	2344.3
72.5°	503.8	506.6	709.2	740.2	430.6	168.9	149.2	197.0	475.6	757.1	796.5
75°	36.6	39.4	95.7	109.8	81.6	42.2	45.0	53.5	101.3	168.9	126.6
77.5°	2.8	2.8	2.8	14.1	25.3	28.1	36.6	42.2	53.5	61.9	56.3
80°	2.8	0.0	2.8	11.3	19.7	28.1	33.8	39.4	42.2	47.8	42.2
82.5°	0.0	0.0	0.0	8.4	19.7	28.1	31.0	42.2	47.8	56.3	47.8
85°	0.0	0.0	0.0	8.4	19.7	31.0	28.1	14.1	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°	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3
2.5°	7671.8	7562.1	7311.6	7185.0	6886.7	6844.4	6551.7	6503.9	6405.4	6351.9	6222.5
5°	7018.9	6886.7	6478.6	6135.2	5735.6	5457.0	5243.1	5048.9	4936.3	4832.2	4880.0
7.5°	6487.0	6101.5	5648.3	5074.2	4612.7	4314.4	3987.9	3720.5	3562.9	3456.0	3481.3
10°	5929.8	5679.3	5048.9	4404.4	3847.2	3636.1	3380.0	3174.6	2952.2	2760.9	2670.8
12.5°	5755.3	5383.8	4593.0	3937.2	3515.1	3309.6	3017.0	2780.6	2496.3	2262.7	2181.1
15°	5786.3	5428.8	4469.1	3768.4	3270.2	2915.6	2566.7	2274.0	1961.6	1798.4	1713.9
17.5°	6290.0	5670.9	4550.8	3591.1	2929.7	2437.2	2006.6	1635.1	1401.5	1232.7	1196.1
20°	6909.2	6194.3	4725.3	3461.6	2651.1	1939.1	1466.3	1145.4	951.2	923.1	914.7
22.5°	7815.4	7049.9	5099.6	3374.4	2310.6	1511.3	1004.7	833.0	779.6	773.9	776.8
25°	9081.8	8122.1	5507.6	3301.2	2054.5	1165.1	821.8	706.4	689.5	681.1	695.1
27.5°	9630.6	8769.4	5724.3	3143.6	1820.9	1049.7	810.5	700.8	652.9	638.9	647.3
30°	10308.9	9200.0	6064.9	2873.4	1477.5	864.0	757.1	762.7	740.2	669.8	647.3
32.5°	11209.5	9737.6	6236.5	2682.1	1319.9	714.8	554.4	509.4	568.5	579.8	599.5
35°	11786.4	10283.5	6323.8	2569.5	1238.3	610.7	470.0	427.8	413.7	416.5	427.8
37.5°	12858.6	11020.9	6433.5	2451.3	1176.4	531.9	425.0	385.6	365.9	365.9	377.1
40°	13500.3	11606.3	6582.7	2386.5	1114.5	484.1	385.6	351.8	334.9	334.9	340.5
42.5°	13660.7	11896.1	6532.0	2364.0	1044.1	472.8	351.8	326.5	306.8	303.9	301.1
45°	13947.8	12338.0	6540.5	2338.7	970.9	430.6	332.1	303.9	275.8	273.0	270.2
47.5°	14263.0	12656.0	6557.4	2240.2	900.6	360.2	346.2	281.4	247.7	242.0	242.0
50°	13992.8	12909.3	6703.7	2141.7	810.5	292.7	340.5	264.5	219.5	211.1	213.9
52.5°	14026.6	13207.6	7013.3	2003.8	698.0	233.6	275.8	250.5	199.8	185.7	188.6
55°	13486.2	12892.4	7055.5	1857.5	546.0	180.1	211.1	219.5	168.9	163.2	163.2
57.5°	11609.1	10916.8	6225.3	1505.7	360.2	149.2	152.0	191.4	146.3	140.7	143.5
60°	9934.6	8763.8	5009.5	993.5	225.1	118.2	109.8	194.2	129.5	126.6	135.1
62.5°	9056.5	7201.9	3799.3	616.3	154.8	90.1	76.0	157.6	112.6	112.6	123.8
65°	6543.3	4837.8	2209.2	323.6	109.8	70.4	56.3	90.1	92.9	95.7	101.3
67.5°	4052.6	2442.8	931.5	157.6	73.2	47.8	36.6	56.3	61.9	61.9	67.5
70°	2001.0	973.8	309.6	90.1	56.3	39.4	25.3	31.0	31.0	28.1	31.0
72.5°	619.2	292.7	78.8	56.3	39.4	25.3	14.1	11.3	5.6	0.0	2.8
75°	70.4	56.3	50.7	39.4	25.3	11.3	2.8	0.0	0.0	0.0	0.0
77.5°	42.2	47.8	47.8	39.4	25.3	8.4	0.0	0.0	0.0	0.0	0.0
80°	33.8	36.6	39.4	36.6	22.5	11.3	0.0	0.0	0.0	0.0	0.0
82.5°	42.2	47.8	53.5	47.8	31.0	14.1	5.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	8.4	2.8	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°	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3
2.5°	6169.0	6107.1	6194.3	6064.9	6062.1	6064.9	6028.3	5994.5	6048.0	6191.5	6205.6
5°	4708.4	4840.6	4882.9	5020.8	4944.8	4832.2	4854.7	4778.7	4964.5	5046.1	4981.4
7.5°	3427.8	3419.4	3703.7	3720.5	3757.1	3759.9	3754.3	3605.1	3453.2	3486.9	3588.3
10°	2659.5	2516.0	2653.9	2639.8	2729.9	2704.6	2741.2	2580.7	2634.2	2634.2	2698.9
12.5°	2167.0	2015.1	1989.7	1953.1	1989.7	2003.8	2017.9	1986.9	2077.0	2119.2	2164.2
15°	1654.8	1570.4	1547.9	1477.5	1488.8	1528.2	1562.0	1576.0	1547.9	1612.6	1618.2
17.5°	1201.7	1198.9	1213.0	1210.2	1198.9	1190.5	1187.6	1151.1	1139.8	1145.4	1167.9
20°	911.8	934.4	982.2	1030.0	1055.4	1024.4	982.2	920.3	895.0	900.6	903.4
22.5°	779.6	813.3	878.1	931.5	956.9	900.6	824.6	771.1	759.9	757.1	754.2
25°	706.4	745.8	793.6	810.5	807.7	773.9	717.7	695.1	689.5	683.9	658.6
27.5°	667.0	681.1	689.5	709.2	717.7	695.1	681.1	647.3	641.7	641.7	624.8
30°	644.5	636.0	647.3	633.2	644.5	627.6	630.4	630.4	616.3	622.0	622.0
32.5°	599.5	602.3	602.3	574.1	582.6	562.9	582.6	599.5	602.3	605.1	627.6
35°	439.0	489.7	515.0	515.0	523.5	509.4	506.6	486.9	461.5	436.2	425.0
37.5°	385.6	405.3	439.0	458.7	472.8	461.5	436.2	405.3	391.2	379.9	368.7
40°	343.3	360.2	382.7	405.3	433.4	419.3	379.9	365.9	349.0	349.0	337.7
42.5°	309.6	318.0	332.1	365.9	396.8	368.7	340.5	329.3	320.8	318.0	315.2
45°	278.6	281.4	295.5	323.6	360.2	332.1	303.9	289.9	292.7	295.5	292.7
47.5°	250.5	256.1	264.5	298.3	320.8	306.8	275.8	267.4	267.4	267.4	270.2
50°	216.7	230.8	247.7	275.8	292.7	284.2	258.9	247.7	242.0	242.0	244.8
52.5°	194.2	205.4	228.0	261.7	284.2	270.2	244.8	228.0	216.7	213.9	219.5
55°	168.9	188.6	225.1	250.5	281.4	267.4	239.2	219.5	199.8	197.0	197.0
57.5°	152.0	182.9	216.7	247.7	273.0	261.7	239.2	213.9	188.6	185.7	185.7
60°	143.5	177.3	211.1	239.2	273.0	256.1	236.4	208.3	180.1	180.1	177.3
62.5°	135.1	166.0	199.8	228.0	261.7	247.7	228.0	199.8	171.7	171.7	166.0
65°	112.6	143.5	166.0	191.4	228.0	213.9	194.2	174.5	152.0	146.3	149.2
67.5°	78.8	98.5	121.0	146.3	168.9	163.2	154.8	140.7	121.0	118.2	115.4
70°	39.4	53.5	73.2	98.5	118.2	112.6	106.9	95.7	84.4	81.6	81.6
72.5°	5.6	16.9	31.0	45.0	61.9	64.7	61.9	59.1	56.3	53.5	56.3
75°	0.0	0.0	0.0	11.3	25.3	31.0	36.6	42.2	42.2	36.6	45.0
77.5°	0.0	0.0	0.0	0.0	2.8	14.1	28.1	36.6	45.0	39.4	53.5
80°	0.0	0.0	0.0	0.0	2.8	16.9	28.1	39.4	45.0	39.4	56.3
82.5°	0.0	0.0	0.0	0.0	2.8	19.7	28.1	36.6	42.2	39.4	50.7
85°	0.0	0.0	0.0	0.0	8.4	16.9	11.3	5.6	2.8	2.8	8.4
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: P530419

CATALOG NUMBER: GALN-SA5C-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3	7255.3
2.5°	6284.4	6484.2	6698.1	6779.7	7033.0	7224.4	7353.8	7632.4	7674.7	7677.5
5°	5048.9	5150.2	5516.1	5687.7	6064.9	6357.6	6669.9	7120.2	7421.4	7443.9
7.5°	3588.3	3869.7	4024.5	4472.0	4936.3	5395.1	5859.4	6382.9	6731.9	6740.3
10°	2887.5	3070.4	3346.2	3681.1	4072.3	4539.5	5158.7	5766.6	6121.2	6208.4
12.5°	2324.6	2645.5	2960.7	3306.8	3605.1	3956.9	4623.9	5434.5	5727.2	5901.6
15°	1789.9	2082.6	2454.1	2859.4	3197.1	3667.1	4426.9	5352.8	5845.4	5904.5
17.5°	1319.9	1581.7	1925.0	2307.7	2814.3	3481.3	4460.7	5766.6	6230.9	6329.4
20°	948.4	1100.4	1370.6	1815.2	2459.7	3264.6	4494.5	6185.9	6892.3	7061.1
22.5°	751.4	813.3	990.6	1384.6	2062.9	3036.7	4733.7	6988.0	7801.3	8046.2
25°	652.9	686.7	771.1	1092.0	1812.4	3014.1	5116.4	7950.5	9011.5	9188.8
27.5°	630.4	636.0	709.2	1001.9	1677.3	2865.0	5262.8	8634.3	9765.7	9945.8
30°	664.2	754.2	759.9	847.1	1426.9	2569.5	5338.8	9295.7	10404.6	10536.8
32.5°	574.1	546.0	565.7	655.7	1255.2	2397.8	5482.3	9872.6	11133.5	11226.3
35°	399.6	419.3	464.4	568.5	1097.6	2217.7	5518.9	10508.7	11825.8	11921.5
37.5°	368.7	379.9	416.5	484.1	965.3	2116.4	5468.2	10973.1	12543.4	12675.7
40°	343.3	357.4	377.1	439.0	866.8	2003.8	5397.9	11392.4	12982.5	13308.9
42.5°	323.6	334.9	351.8	419.3	782.4	1891.2	5299.4	11983.4	13376.5	13660.7
45°	301.1	318.0	337.7	408.1	734.5	1815.2	5226.2	11946.8	13604.4	13756.4
47.5°	278.6	306.8	329.3	379.9	720.5	1778.7	5257.2	11808.9	13418.7	13314.6
50°	256.1	292.7	332.1	315.2	686.7	1705.5	5293.7	11997.5	12976.8	12957.1
52.5°	236.4	278.6	309.6	258.9	610.7	1635.1	5648.3	12245.1	13289.2	13027.5
55°	208.3	250.5	247.7	208.3	495.3	1581.7	5927.0	12250.8	13078.2	13176.7
57.5°	188.6	222.3	194.2	174.5	365.9	1322.7	5473.9	10272.3	11195.4	11369.9
60°	174.5	216.7	146.3	137.9	239.2	954.1	4778.7	7956.1	8898.9	9228.2
62.5°	160.4	205.4	115.4	112.6	166.0	678.3	3928.8	6658.7	7669.0	8116.5
65°	140.7	146.3	92.9	87.2	118.2	365.9	2392.2	4584.5	5732.8	5898.8
67.5°	115.4	112.6	76.0	70.4	78.8	177.3	1055.4	2296.5	3323.7	3602.3
70°	92.9	92.9	64.7	56.3	56.3	81.6	275.8	914.7	1502.8	1663.3
72.5°	67.5	70.4	50.7	45.0	42.2	39.4	45.0	182.9	394.0	503.8
75°	59.1	61.9	50.7	39.4	31.0	25.3	19.7	16.9	22.5	36.6
77.5°	64.7	64.7	53.5	36.6	28.1	19.7	11.3	5.6	5.6	2.8
80°	81.6	84.4	70.4	47.8	33.8	22.5	14.1	5.6	2.8	2.8
82.5°	87.2	95.7	78.8	59.1	42.2	25.3	14.1	2.8	0.0	0.0
85°	22.5	36.6	61.9	53.5	42.2	25.3	14.1	2.8	0.0	0.0
87.5°	0.0	2.8	8.4	8.4	11.3	11.3	8.4	2.8	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)