

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: P532839

Luminaire Tested: **GALN-SA8B-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532839
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-SA8B-727-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA 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: 21244 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

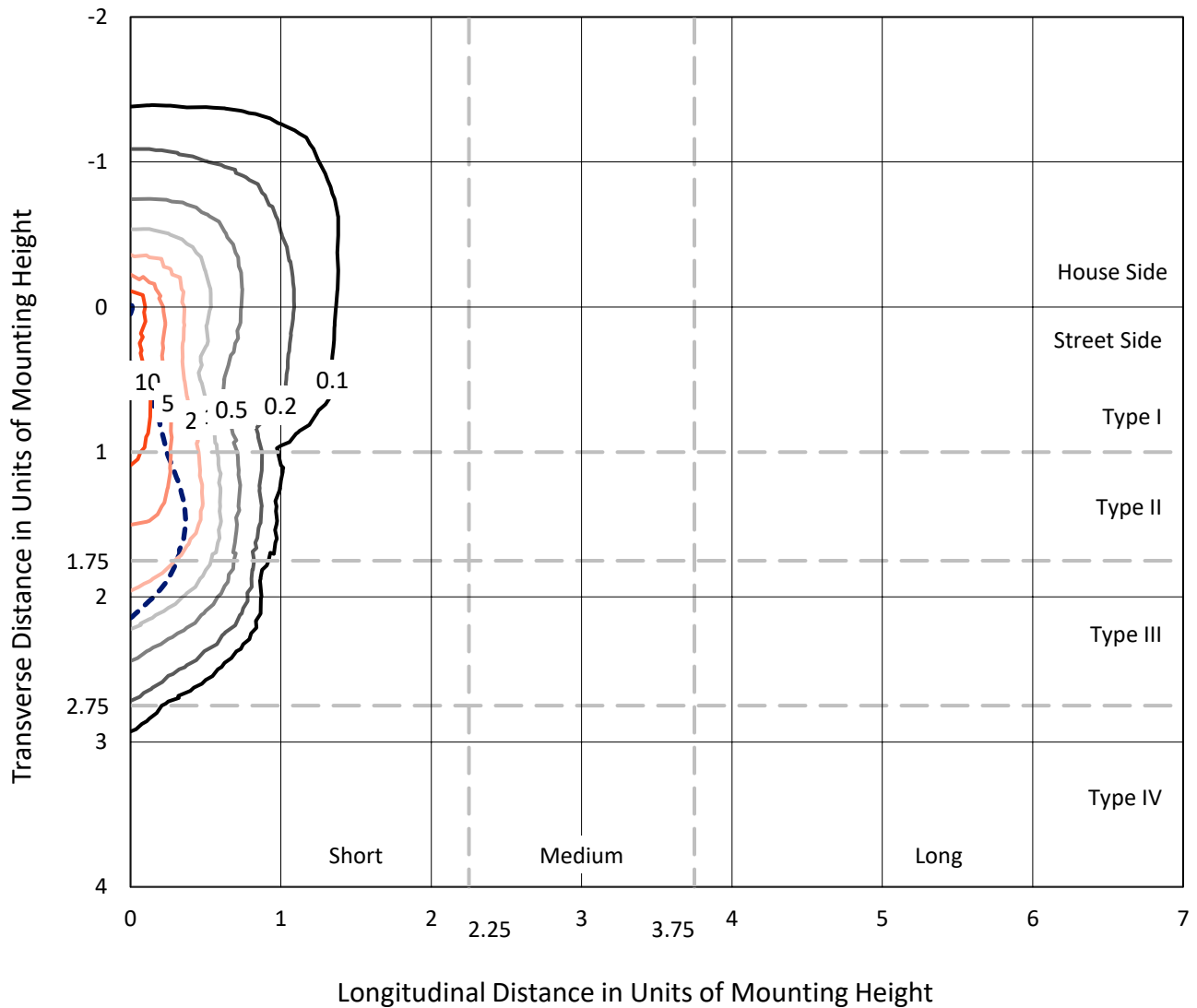
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

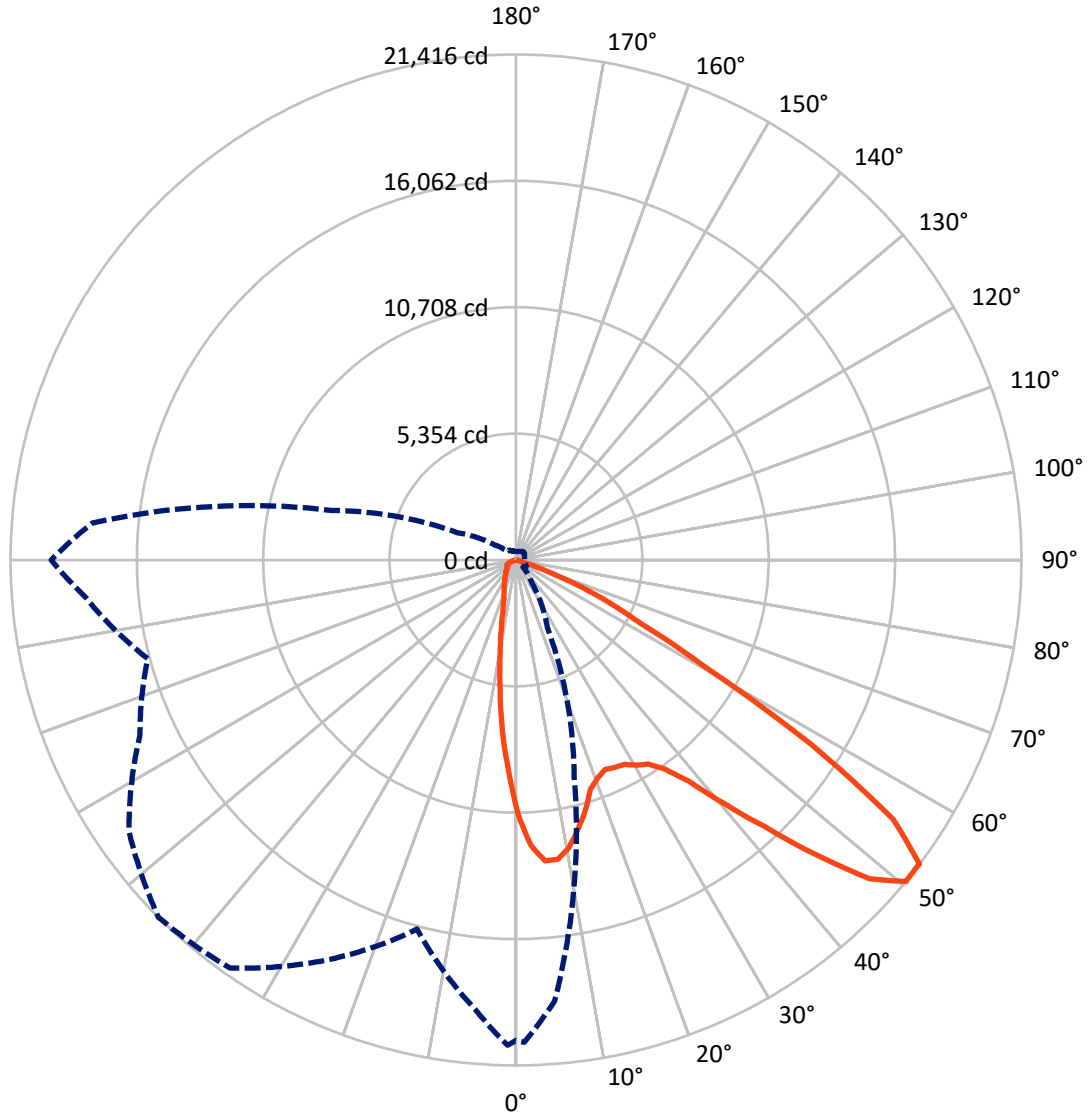
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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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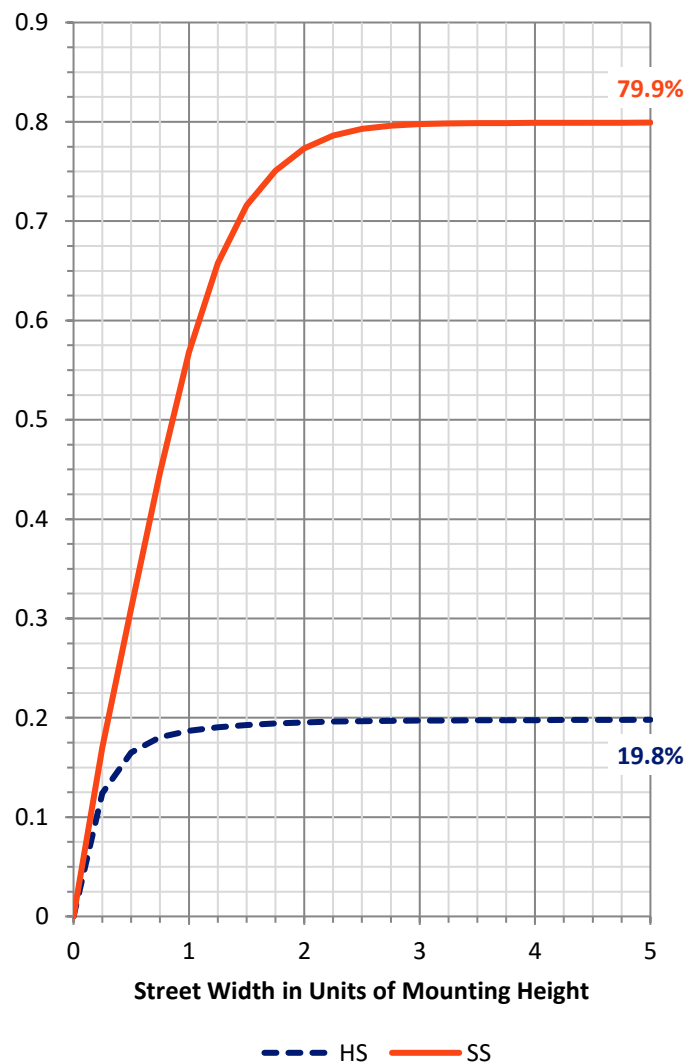
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4255.2	0.0	4255.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	16988.8	0.0	16988.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	21244.0	0.0	21244.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.3	3.7
10°-20°	1560.7	7.3
20°-30°	2344.6	11.0
30°-40°	3519.2	16.6
40°-50°	4946.0	23.3
50°-60°	5335.1	25.1
60°-70°	2477.1	11.7
70°-80°	233.1	1.1
80°-90°	43.0	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°	21244.0	100.0
0°-180°	21244.0	100.0



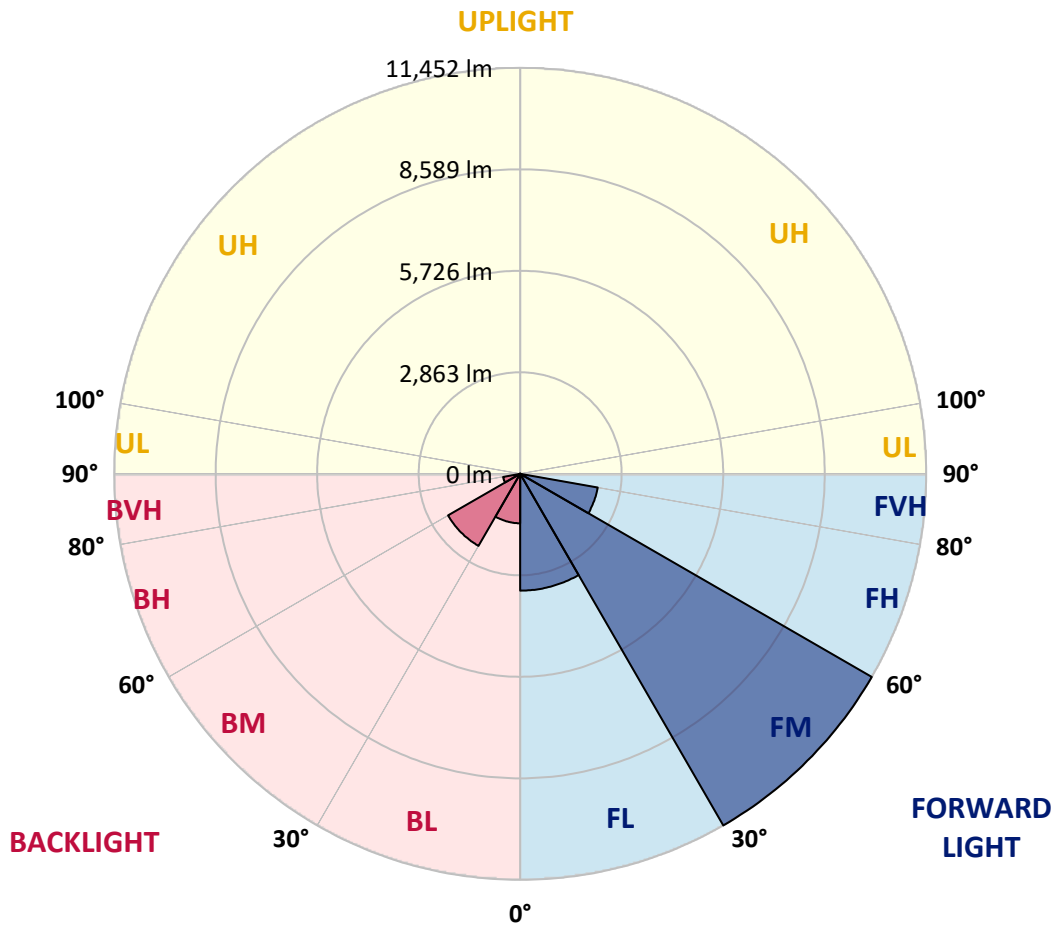
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3295.8	15.5			
FM (30°-60°)	11452.1	53.9			
FH (60°-80°)	2221.5	10.5			G2/5000
FVH (80°-90°)	19.4	0.1			G1/100
BL (0°-30°)	1394.7	6.6	B3/2500		
BM (30°-60°)	2348.2	11.1	B2/2500		
BH (60°-80°)	488.6	2.3	B1/500		G1/500
BVH (80°-90°)	23.6	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°	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4
2.5°	11199.1	11026.3	10807.1	10625.9	10356.1	9812.4	9664.9	9487.8	9340.3	9142.2	8864.0
5°	10183.3	10128.5	10027.3	9344.5	8851.4	8193.8	7654.3	7426.7	7127.5	6883.0	6706.0
7.5°	9407.7	9188.6	8868.2	8181.2	7393.0	6689.1	6090.6	5740.7	5344.5	5209.7	4969.4
10°	8577.4	8628.0	8155.9	7190.7	6238.1	5669.1	5298.2	4961.0	4602.7	4366.7	4025.3
12.5°	8311.9	8147.5	7785.0	6592.2	5778.7	5247.6	4796.6	4379.3	4000.0	3620.6	3291.9
15°	8484.7	8231.8	7726.0	6465.7	5424.6	4762.9	4198.1	3633.3	3283.4	2798.7	2457.3
17.5°	9104.3	8902.0	8223.3	6600.6	5243.4	4299.2	3460.5	2878.8	2343.5	1905.2	1732.3
20°	10136.9	9850.3	8998.9	6773.4	4973.6	3738.7	2807.1	2090.6	1584.8	1399.4	1302.4
22.5°	11148.5	10992.6	9917.8	7106.4	4733.4	3241.3	2107.5	1407.8	1184.4	1150.7	1087.5
25°	13074.7	12606.9	11321.3	7709.1	4547.9	2773.4	1589.0	1133.8	1003.2	977.9	986.3
27.5°	14221.2	13829.2	12619.5	8109.5	4341.4	2415.2	1344.6	1041.1	952.6	897.8	876.7
30°	15321.3	14866.1	13264.4	8345.6	3898.8	2035.8	1192.8	998.9	977.9	897.8	872.5
32.5°	16168.5	15721.7	14195.9	8699.6	3717.6	1791.3	982.1	779.8	725.0	716.5	792.4
35°	17466.7	16990.4	14992.5	8893.5	3578.5	1664.9	851.4	695.5	632.2	607.0	611.2
37.5°	18676.4	18351.8	15730.2	8969.4	3431.0	1627.0	762.9	623.8	569.0	552.2	547.9
40°	19688.0	18963.0	16429.8	9049.5	3367.7	1555.3	708.1	569.0	531.1	505.8	505.8
42.5°	20151.6	19414.0	17213.8	9003.1	3350.9	1441.5	708.1	522.7	493.1	467.9	463.6
45°	20050.5	19751.2	17563.7	8982.0	3350.9	1327.7	644.9	510.0	467.9	434.1	425.7
47.5°	20311.8	19919.8	18002.0	9070.6	3283.4	1247.6	543.7	535.3	442.6	400.4	392.0
50°	20358.2	20434.0	18764.9	9530.0	3135.9	1146.5	425.7	526.9	425.7	362.5	354.1
52°	20661.6	20189.6	18996.7	9774.4	2980.0	1070.6	358.3	451.0	408.8	337.2	328.8
52.5°	20244.4	20552.0	19051.5	9863.0	2996.8	1020.0	345.6	442.6	400.4	337.2	316.1
55°	19776.5	20071.5	18828.1	10052.6	2748.1	800.8	269.8	320.3	362.5	295.0	282.4
57.5°	17188.5	17487.8	16362.4	9205.4	2238.1	564.8	223.4	240.3	320.3	274.0	261.3
60°	15279.2	15064.2	13732.3	7679.6	1589.0	316.1	177.0	185.5	349.8	252.9	248.7
62.5°	13964.1	13504.7	11477.3	5930.4	969.4	210.7	139.1	143.3	269.8	236.0	236.0
65°	10330.8	9816.6	7624.8	3586.9	476.3	147.5	105.4	113.8	168.6	202.3	202.3
67.5°	5896.7	5698.6	3683.9	1618.5	198.1	92.7	80.1	88.5	130.7	164.4	156.0
70°	2710.2	2432.0	1416.2	341.4	92.7	63.2	63.2	71.7	105.4	122.2	113.8
72.5°	792.4	750.3	345.6	54.8	37.9	37.9	42.1	54.8	80.1	92.7	84.3
75°	59.0	37.9	25.3	16.9	16.9	25.3	33.7	54.8	80.1	88.5	71.7
77.5°	4.2	8.4	4.2	4.2	12.6	25.3	37.9	67.4	105.4	109.6	80.1
80°	4.2	4.2	0.0	4.2	12.6	25.3	42.1	75.9	118.0	126.4	67.4
82.5°	0.0	0.0	0.0	4.2	16.9	33.7	50.6	80.1	109.6	134.9	71.7
85°	0.0	0.0	0.0	4.2	25.3	46.4	59.0	21.1	12.6	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°	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4
2.5°	9062.1	8952.5	8910.4	8948.3	8935.7	8923.0	9154.8	9104.3	9095.8	9171.7	9154.8
5°	6802.9	6609.0	7140.1	6925.1	7148.5	7283.4	7308.7	7321.4	7477.3	7312.9	7527.9
7.5°	4847.2	4897.8	4893.5	5036.9	5294.0	5521.6	5656.4	5551.1	5542.6	5521.6	5428.8
10°	3873.5	3785.0	3768.2	3734.4	3814.5	4008.4	4172.8	4042.1	3949.4	4075.8	4037.9
12.5°	3165.4	3043.2	2975.7	2840.9	2845.1	2975.7	2975.7	2975.7	3068.5	3140.1	3194.9
15°	2427.8	2326.6	2326.6	2191.8	2162.3	2166.5	2233.9	2242.3	2389.9	2432.0	2453.1
17.5°	1698.6	1643.8	1707.1	1761.8	1728.1	1736.6	1761.8	1770.3	1791.3	1774.5	1816.6
20°	1306.6	1298.2	1315.1	1412.0	1483.7	1525.8	1496.3	1454.2	1428.9	1369.9	1369.9
22.5°	1108.5	1125.4	1154.9	1235.0	1327.7	1353.0	1319.3	1222.3	1146.5	1138.0	1142.2
25°	986.3	1003.2	1049.5	1100.1	1150.7	1192.8	1159.1	1087.5	1045.3	1007.4	1007.4
27.5°	910.4	918.9	944.1	982.1	1024.2	1057.9	1045.3	1007.4	961.0	944.1	906.2
30°	851.4	864.1	893.6	902.0	939.9	956.8	935.7	927.3	897.8	876.7	864.1
32.5°	821.9	817.7	838.8	847.2	851.4	864.1	838.8	851.4	847.2	813.5	800.8
35°	619.6	653.3	708.1	754.5	767.1	784.0	779.8	762.9	716.5	678.6	632.2
37.5°	556.4	577.4	607.0	644.9	695.5	716.5	708.1	666.0	611.2	585.9	577.4
40°	514.2	526.9	552.2	577.4	628.0	666.0	636.5	598.5	556.4	535.3	522.7
42.5°	476.3	480.5	493.1	518.4	556.4	615.4	564.8	514.2	497.4	484.7	476.3
45°	434.1	434.1	451.0	463.6	505.8	560.6	510.0	463.6	455.2	446.8	442.6
47.5°	400.4	404.6	413.1	429.9	463.6	501.6	467.9	429.9	408.8	404.6	396.2
50°	358.3	362.5	379.3	396.2	438.4	459.4	438.4	396.2	375.1	362.5	362.5
52°	324.6	337.2	354.1	387.8	417.3	451.0	425.7	379.3	354.1	341.4	333.0
52.5°	320.3	328.8	345.6	383.6	417.3	446.8	421.5	375.1	345.6	337.2	328.8
55°	286.6	299.3	328.8	375.1	413.1	446.8	413.1	370.9	328.8	307.7	299.3
57.5°	274.0	282.4	320.3	379.3	408.8	446.8	413.1	370.9	328.8	290.8	282.4
60°	261.3	278.2	320.3	366.7	404.6	451.0	417.3	366.7	320.3	274.0	274.0
62.5°	248.7	261.3	316.1	358.3	387.8	434.1	400.4	358.3	307.7	261.3	257.1
65°	215.0	236.0	278.2	299.3	333.0	375.1	341.4	311.9	269.8	231.8	227.6
67.5°	164.4	172.8	206.5	231.8	252.9	290.8	274.0	236.0	206.5	177.0	177.0
70°	113.8	122.2	147.5	160.2	181.2	202.3	189.7	160.2	139.1	122.2	118.0
72.5°	80.1	84.3	92.7	101.2	109.6	118.0	113.8	92.7	80.1	75.9	71.7
75°	63.2	71.7	75.9	71.7	67.4	63.2	63.2	54.8	46.4	42.1	42.1
77.5°	63.2	67.4	63.2	54.8	46.4	42.1	37.9	33.7	25.3	21.1	25.3
80°	54.8	54.8	54.8	46.4	42.1	37.9	33.7	29.5	25.3	21.1	21.1
82.5°	59.0	59.0	54.8	46.4	46.4	37.9	37.9	33.7	29.5	21.1	21.1
85°	0.0	0.0	0.0	8.4	21.1	37.9	37.9	33.7	29.5	25.3	25.3
87.5°	0.0	0.0	0.0	0.0	4.2	8.4	16.9	21.1	25.3	25.3	25.3
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°	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4
2.5°	9306.6	9466.8	9770.2	10073.7	10259.2	10478.3	10874.5	11085.3	11359.3	11494.1	11759.7
5°	7498.4	7877.7	8012.6	8358.2	8729.1	9100.1	9690.1	10339.2	10878.8	11249.7	11730.2
7.5°	5471.0	5559.5	6082.2	6314.0	6920.9	7595.3	8400.4	9218.1	9900.9	10507.8	10874.5
10°	4101.1	4425.7	4754.5	5197.0	5686.0	6381.4	7152.8	8054.7	8939.9	9546.8	10010.5
12.5°	3296.1	3553.2	3991.5	4467.8	5070.6	5530.0	6305.5	7199.1	8345.6	8939.9	9551.1
15°	2495.2	2824.0	3321.4	3814.5	4451.0	4935.7	5719.7	6845.1	8320.3	9138.0	9664.9
17.5°	1850.4	2073.8	2520.5	3072.7	3721.8	4404.6	5462.6	6807.1	8602.7	9576.3	10120.1
20°	1416.2	1492.1	1774.5	2267.6	2971.5	3865.1	5045.3	6971.5	9437.2	10642.7	11194.9
22.5°	1146.5	1180.2	1289.8	1631.2	2314.0	3393.0	4847.2	7085.3	10377.2	11919.8	12657.5
25°	998.9	990.5	1062.2	1209.7	1808.2	2950.5	4594.3	7515.2	11527.9	13420.4	14082.1
27.5°	910.4	910.4	944.1	1049.5	1500.5	2663.8	4434.1	7822.9	12687.0	14739.6	15097.9
30°	864.1	872.5	969.4	1003.2	1247.6	2322.4	4168.6	8134.8	13795.5	15582.6	16075.8
32.5°	800.8	767.1	746.0	830.3	1049.5	2014.7	3903.0	8265.5	14693.3	16615.3	17036.8
35°	615.4	598.5	623.8	687.0	902.0	1753.4	3608.0	8413.0	15725.9	17812.3	17896.6
37.5°	556.4	552.2	569.0	623.8	758.7	1525.8	3397.2	8375.1	16514.1	18802.8	18575.2
40°	514.2	514.2	526.9	573.2	678.6	1365.6	3178.1	8341.4	17277.0	19915.6	19249.6
42.5°	480.5	480.5	501.6	531.1	644.9	1260.3	3013.7	8295.0	17917.7	20598.4	19645.8
45°	434.1	446.8	480.5	510.0	653.3	1188.6	2891.4	8118.0	18136.9	20590.0	19456.2
47.5°	400.4	417.3	451.0	493.1	590.1	1167.5	2807.1	7962.0	18061.0	20084.2	18861.9
50°	362.5	383.6	429.9	501.6	501.6	1125.4	2718.6	8101.1	18006.2	19692.2	18292.8
52°	337.2	354.1	413.1	488.9	438.4	1036.9	2663.8	8370.9	18229.6	19641.6	18039.9
52.5°	333.0	345.6	400.4	480.5	417.3	1020.0	2625.9	8434.1	18301.3	19515.2	18212.8
55°	295.0	311.9	366.7	375.1	341.4	838.8	2503.7	8577.4	17947.2	19266.5	18048.4
57.5°	278.2	286.6	324.6	307.7	295.0	632.2	2153.8	8354.0	15940.9	17112.7	16792.3
60°	257.1	265.5	303.5	240.3	248.7	442.6	1618.5	7253.9	12800.8	14259.1	14836.6
62.5°	248.7	244.5	286.6	193.9	210.7	320.3	1142.2	5896.7	9863.0	11738.6	12737.5
65°	219.2	215.0	206.5	164.4	181.2	248.7	682.8	3848.2	6950.4	8880.9	9428.8
67.5°	168.6	177.0	151.7	130.7	151.7	193.9	379.3	1723.9	3645.9	5327.7	5770.3
70°	118.0	126.4	122.2	113.8	134.9	160.2	219.2	590.1	1508.9	2798.7	3085.3
72.5°	71.7	88.5	92.7	96.9	118.0	139.1	156.0	189.7	400.4	990.5	1230.8
75°	42.1	59.0	71.7	84.3	96.9	118.0	130.7	134.9	139.1	185.5	299.3
77.5°	29.5	42.1	63.2	80.1	96.9	118.0	139.1	147.5	139.1	130.7	139.1
80°	25.3	42.1	59.0	75.9	101.2	122.2	139.1	139.1	134.9	118.0	126.4
82.5°	25.3	42.1	63.2	80.1	96.9	118.0	134.9	139.1	126.4	118.0	122.2
85°	29.5	46.4	67.4	84.3	105.4	96.9	88.5	71.7	67.4	54.8	59.0
87.5°	29.5	42.1	42.1	46.4	50.6	50.6	50.6	46.4	37.9	33.7	33.7
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: P532839

CATALOG NUMBER: GALN-SA8B-727-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4	10773.4
2.5°	11772.3	12109.5	12096.9	12105.3	12054.7	11713.3	11548.9	11131.7	11249.7	11199.1
5°	12223.3	12556.3	12842.9	12809.2	12421.4	11957.8	11270.7	10621.6	10444.6	10183.3
7.5°	11772.3	12573.2	12838.7	12800.8	12227.5	11633.2	10537.3	9888.2	9580.6	9407.7
10°	11055.8	11983.1	12311.8	12379.3	11991.5	11089.5	10082.1	9041.0	8876.7	8577.4
12.5°	10646.9	11321.3	11523.6	11704.9	11570.0	10895.6	9736.5	8737.6	8510.0	8311.9
15°	10314.0	10714.4	10798.7	11005.2	11085.3	10722.8	9917.8	9066.3	8505.7	8484.7
17.5°	10621.6	10457.3	10149.6	10212.8	10465.7	10727.0	10385.6	9715.4	9171.7	9104.3
20°	11131.7	10406.7	9711.2	9867.2	10077.9	10878.8	11093.7	10621.6	10309.7	10136.9
22.5°	11717.5	10495.2	9572.1	9648.0	10048.4	11220.2	12240.2	11978.9	11397.2	11148.5
25°	12800.8	10739.7	9681.7	9732.3	10280.2	11696.5	13277.1	13470.9	13125.3	13074.7
27.5°	13858.7	11371.9	9922.0	9808.2	10398.3	12160.1	13905.1	14946.2	14339.2	14221.2
30°	14398.2	11886.1	10280.2	10086.4	10887.2	12442.5	14284.4	15907.2	15376.1	15321.3
32.5°	15224.4	12354.0	10558.4	10309.7	11161.2	12792.3	14992.5	16956.7	16442.5	16168.5
35°	15570.0	12864.0	11169.6	10878.8	11945.1	13281.3	15355.0	17892.4	17732.3	17466.7
37.5°	16235.9	13411.9	11890.3	11873.5	12893.5	13917.7	16008.3	19165.3	19135.8	18676.4
40°	16290.7	14010.5	13028.4	13559.5	14360.3	15026.3	16581.6	19519.4	19999.9	19688.0
42.5°	16375.0	15060.0	14996.8	15435.1	16122.1	15978.8	16602.6	19603.7	20337.1	20151.6
45°	16413.0	16109.5	16998.9	17808.1	18094.7	17226.5	16404.5	19443.5	20514.1	20050.5
47.5°	16109.5	17011.5	18617.4	20181.1	20265.4	17993.6	16320.2	19279.1	20619.5	20311.8
50°	16151.6	17576.3	20016.7	21416.1	21108.4	18672.2	16189.6	19178.0	20564.7	20358.2
52°	16050.5	17588.9	20214.9	21390.8	21175.9	18297.1	15966.2	18790.2	20514.1	20661.6
52.5°	16164.3	17513.1	20008.3	21407.7	21129.5	18482.5	15936.7	19005.2	20543.6	20244.4
55°	15772.3	16611.1	18798.6	19392.9	19350.8	16775.5	15030.5	18292.8	19772.3	19776.5
57.5°	14254.9	14398.2	14743.9	14731.2	14537.3	13188.5	12855.6	16821.8	17626.9	17188.5
60°	12560.5	10541.6	9610.1	9230.7	9015.8	8796.6	11371.9	15388.7	15464.6	15279.2
62.5°	10853.5	7308.7	6069.5	5964.1	6014.7	6815.6	10992.6	14819.7	14364.5	13964.1
65°	8758.6	5327.7	4408.8	4269.7	4762.9	5626.9	8897.7	11363.5	10663.8	10330.8
67.5°	5500.5	3886.2	2980.0	2718.6	3312.9	3873.5	5846.1	7140.1	6356.1	5896.7
70°	3262.4	2170.7	1348.8	1209.7	1361.4	2065.3	3275.0	3561.6	2946.2	2710.2
72.5°	1285.6	796.6	375.1	320.3	333.0	725.0	1205.5	1176.0	889.4	792.4
75°	345.6	240.3	130.7	105.4	88.5	134.9	193.9	126.4	46.4	59.0
77.5°	160.2	143.3	113.8	88.5	67.4	50.6	25.3	8.4	8.4	4.2
80°	139.1	122.2	105.4	88.5	67.4	42.1	21.1	4.2	4.2	4.2
82.5°	130.7	113.8	96.9	80.1	63.2	42.1	21.1	4.2	0.0	0.0
85°	54.8	71.7	80.1	75.9	67.4	42.1	21.1	4.2	0.0	0.0
87.5°	29.5	25.3	21.1	16.9	12.6	8.4	8.4	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)