

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: P530965

Luminaire Tested: **GALN-SA6B-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530965
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-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 15600 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

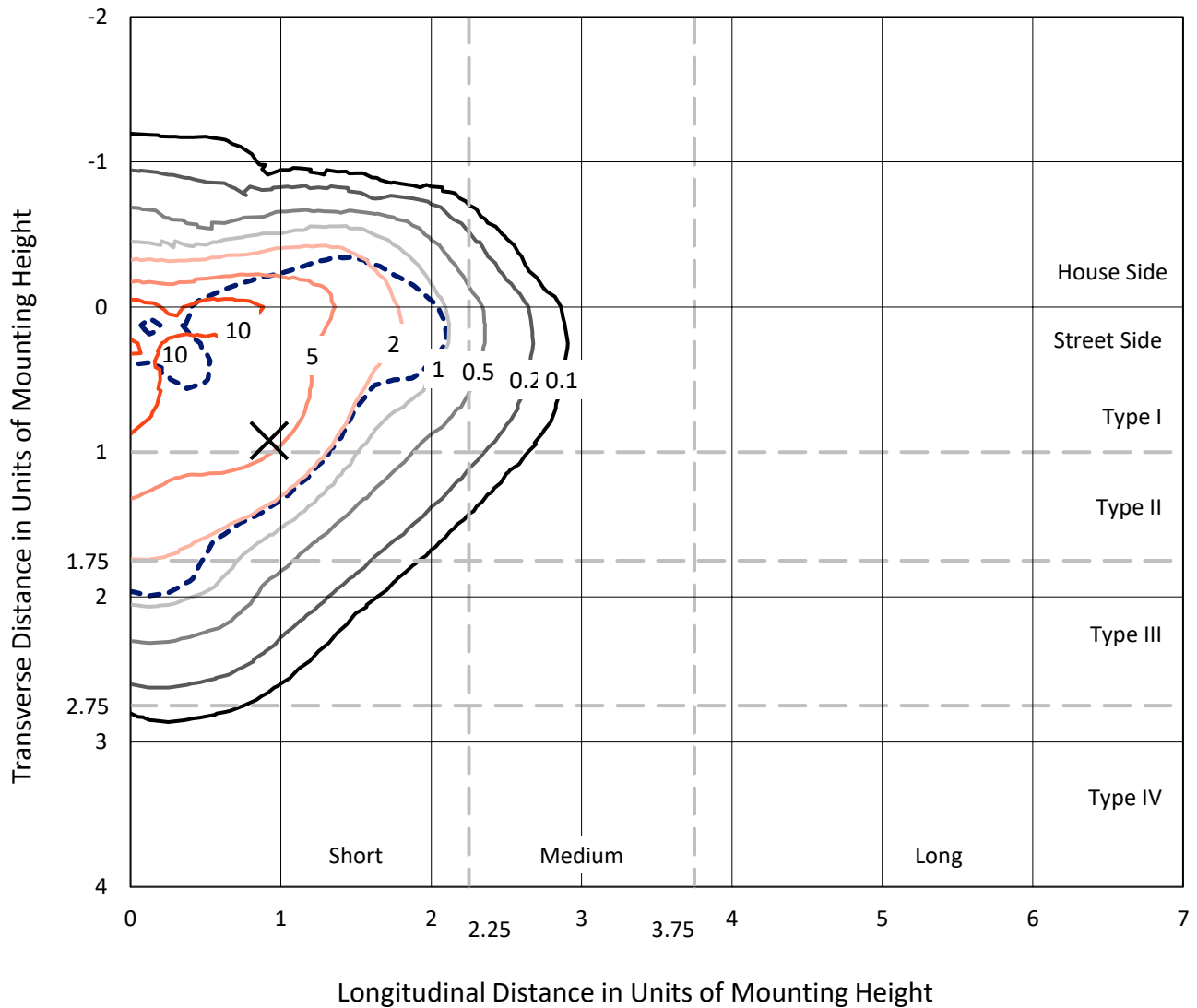
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

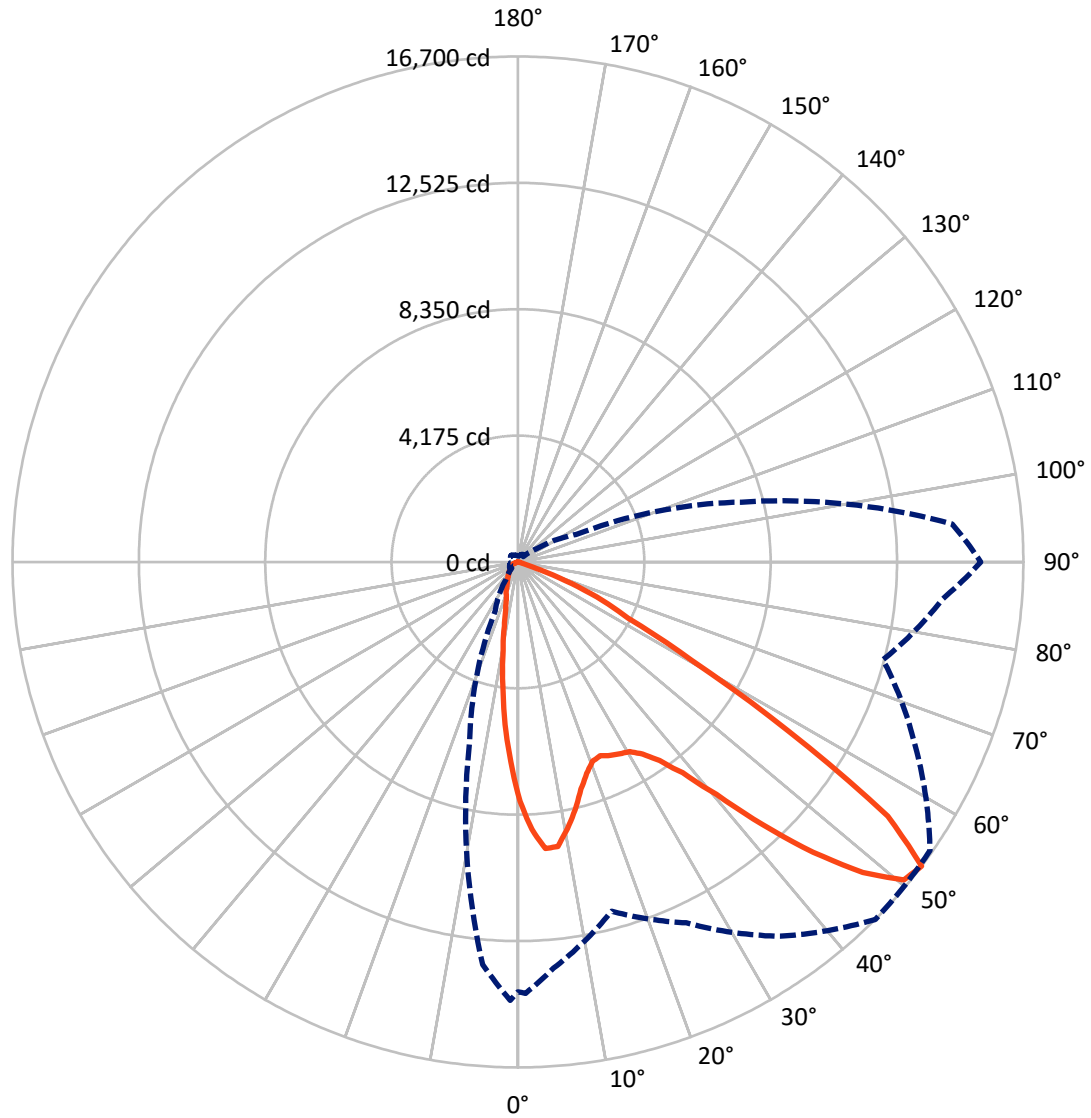
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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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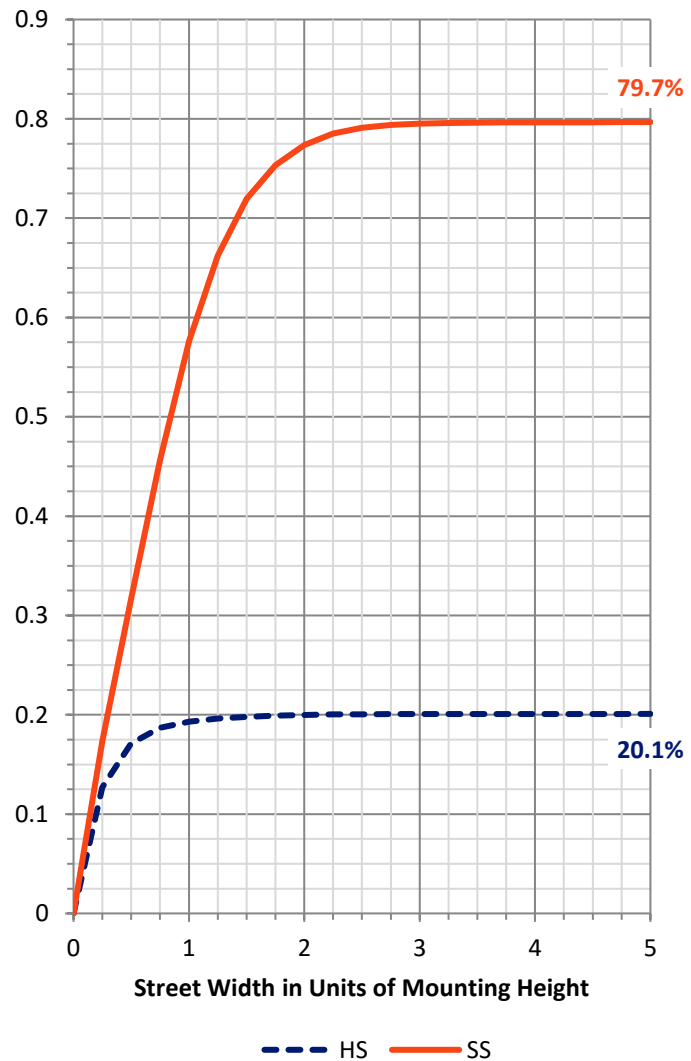
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3166.0	0.0	3166.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	12434.0	0.0	12434.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	15600.0	0.0	15600.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.9	3.7
10°-20°	1138.1	7.3
20°-30°	1732.0	11.1
30°-40°	2588.7	16.6
40°-50°	3686.6	23.6
50°-60°	3963.0	25.4
60°-70°	1756.1	11.3
70°-80°	142.1	0.9
80°-90°	16.6	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°	15600.0	100.0
0°-180°	15600.0	100.0

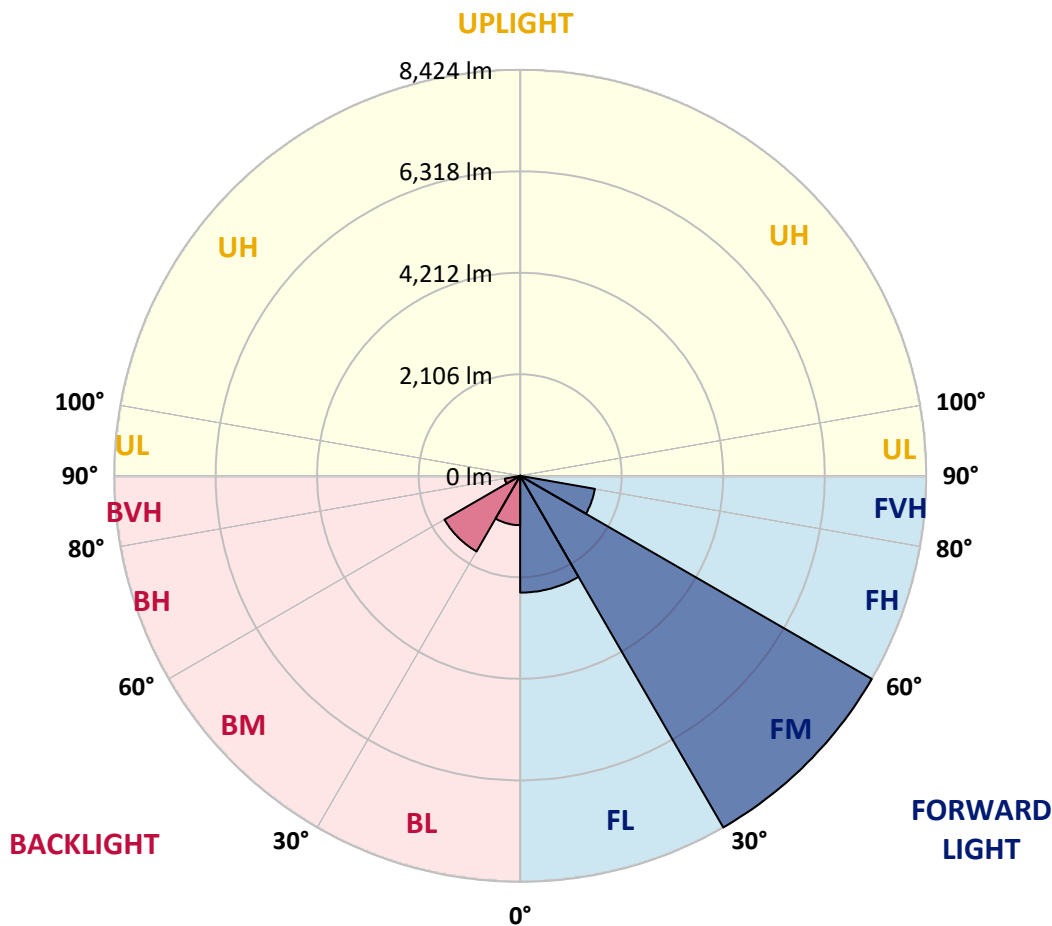


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2423.0	15.5			
FM (30°-60°)	8424.5	54.0			
FH (60°-80°)	1574.2	10.1			G1/1800
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	1024.0	6.6	B3/2500		
BM (30°-60°)	1813.8	11.6	B2/2500		
BH (60°-80°)	323.9	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°	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9
2.5°	8370.2	8394.7	8529.7	8698.5	8787.4	8989.9	8848.8	8885.6	8808.9	8538.9	8327.2
5°	8115.5	8112.4	8284.3	8701.5	9097.3	9499.3	9511.5	9296.8	8919.4	8505.2	7913.0
7.5°	7348.4	7468.1	7646.1	8311.9	9045.2	9345.9	9490.1	9238.5	8658.6	8066.4	7425.1
10°	6768.5	6829.9	7130.6	7934.5	8471.4	8873.4	8962.3	8818.1	8373.2	7633.8	6915.8
12.5°	6434.1	6464.8	6817.6	7492.6	8060.3	8357.9	8400.8	8468.3	8149.2	7455.8	6593.6
15°	6437.2	6461.7	6937.3	7501.8	7725.8	7646.1	7787.2	7784.1	7922.2	7422.1	6863.7
17.5°	6900.5	6928.1	7357.6	7636.9	7538.7	7351.5	7342.3	7483.4	7774.9	7842.4	7271.7
20°	7698.2	7762.6	8078.7	8063.3	7511.1	7133.7	7029.3	7136.7	7814.8	8198.3	8094.0
22.5°	8772.1	8861.1	9082.0	8658.6	7636.9	6986.4	6952.6	7161.3	8078.7	8993.0	9026.8
25°	10017.8	10168.2	10275.5	9732.5	8084.8	7241.0	7081.5	7440.5	8434.6	9855.2	10214.2
27.5°	10843.2	10999.6	10975.1	10198.8	8385.5	7308.5	7173.5	7508.0	8744.5	10060.8	10834.0
30°	11487.5	11582.6	11754.4	10450.4	8686.2	7498.8	7268.7	7793.3	8845.7	10416.7	11582.6
32.5°	12239.2	12303.6	12315.9	10895.3	9149.5	7738.1	7563.2	8149.2	9293.7	10757.3	12245.3
35°	12997.1	13092.2	12892.7	11444.5	9434.8	8183.0	8054.1	8766.0	9652.7	11110.1	12975.6
37.5°	13819.4	13868.4	13408.2	11671.6	9842.9	8907.1	8836.5	9431.8	10275.5	11748.3	13785.6
40°	14509.7	14555.7	13957.4	11950.8	10272.5	9919.6	10100.6	10702.0	11122.4	12162.5	14190.6
42.5°	14893.2	15000.6	14141.5	11797.4	11134.6	11067.1	11871.0	12082.7	12104.2	12279.1	14552.7
45°	14997.6	14948.5	13837.8	11923.2	11889.4	12954.1	13684.4	13963.6	13079.9	12493.9	14644.7
47.5°	14515.8	14580.3	13389.8	11812.7	12880.5	14383.9	15328.9	15847.5	13807.1	12306.7	14417.7
50°	14126.2	14043.3	13245.6	11733.0	13147.4	15058.9	16516.3	16632.9	14476.0	12536.8	14169.1
52.5°	14202.9	14255.0	13475.7	11944.7	13153.5	15098.8	16700.4	16620.7	14497.4	12484.7	14080.2
55°	14365.5	14135.4	13377.5	11478.3	12273.0	13985.0	14822.7	14699.9	13380.6	11929.3	13862.3
57.5°	12395.7	12751.6	12300.6	10247.9	10073.0	10536.3	10521.0	10898.4	9981.0	10266.3	12619.7
60°	10060.8	10122.1	10290.9	8766.0	6971.0	6811.5	6590.6	6351.3	6716.4	8778.2	11478.3
62.5°	8848.8	8775.2	9376.5	7974.4	4921.5	4120.6	4083.8	4231.1	5182.3	8373.2	10766.5
65°	6431.0	6523.1	6958.8	6188.6	3694.2	3144.9	3089.7	3525.4	4194.3	6710.2	8216.7
67.5°	3927.3	4105.3	4145.2	3816.9	2506.8	1991.3	1911.5	2307.3	3028.4	4341.6	4817.1
70°	1813.3	2028.1	2230.6	2083.3	1451.3	819.2	773.2	969.6	1528.0	2497.5	2555.8
72.5°	549.2	552.3	773.2	806.9	469.4	184.1	162.6	214.8	518.5	825.4	868.3
75°	39.9	43.0	104.3	119.7	89.0	46.0	49.1	58.3	110.5	184.1	138.1
77.5°	3.1	3.1	3.1	15.3	27.6	30.7	39.9	46.0	58.3	67.5	61.4
80°	3.1	0.0	3.1	12.3	21.5	30.7	36.8	43.0	46.0	52.2	46.0
82.5°	0.0	0.0	0.0	9.2	21.5	30.7	33.8	46.0	52.2	61.4	52.2
85°	0.0	0.0	0.0	9.2	21.5	33.8	30.7	15.3	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°	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9
2.5°	8364.0	8244.4	7971.3	7833.2	7508.0	7462.0	7142.9	7090.7	6983.3	6925.0	6783.9
5°	7652.2	7508.0	7063.1	6688.8	6253.1	5949.3	5716.1	5504.4	5381.7	5268.2	5320.3
7.5°	7072.3	6651.9	6158.0	5532.0	5028.8	4703.6	4347.7	4056.2	3884.4	3767.8	3795.4
10°	6464.8	6191.7	5504.4	4801.8	4194.3	3964.2	3685.0	3461.0	3218.6	3009.9	2911.8
12.5°	6274.6	5869.5	5007.4	4292.5	3832.2	3608.3	3289.2	3031.4	2721.5	2466.9	2377.9
15°	6308.3	5918.6	4872.4	4108.4	3565.3	3178.7	2798.2	2479.1	2138.6	1960.6	1868.6
17.5°	6857.5	6182.5	4961.3	3915.1	3194.0	2657.1	2187.7	1782.6	1528.0	1343.9	1304.0
20°	7532.5	6753.2	5151.6	3773.9	2890.3	2114.0	1598.6	1248.8	1037.1	1006.4	997.2
22.5°	8520.5	7685.9	5559.7	3678.8	2519.0	1647.6	1095.4	908.2	849.9	843.8	846.8
25°	9901.2	8854.9	6004.5	3599.0	2239.8	1270.3	895.9	770.1	751.7	742.5	757.9
27.5°	10499.5	9560.6	6240.8	3427.2	1985.2	1144.5	883.7	764.0	711.8	696.5	705.7
30°	11239.0	10030.1	6612.1	3132.7	1610.8	941.9	825.4	831.5	806.9	730.2	705.7
32.5°	12220.8	10616.1	6799.2	2924.0	1439.0	779.3	604.4	555.4	619.8	632.1	653.5
35°	12849.8	11211.4	6894.3	2801.3	1350.0	665.8	512.4	466.4	451.0	454.1	466.4
37.5°	14018.8	12015.2	7014.0	2672.4	1282.5	579.9	463.3	420.3	398.9	398.9	411.1
40°	14718.4	12653.4	7176.6	2601.9	1215.0	527.7	420.3	383.5	365.1	365.1	371.3
42.5°	14893.2	12969.5	7121.4	2577.3	1138.3	515.5	383.5	355.9	334.4	331.4	328.3
45°	15206.2	13451.2	7130.6	2549.7	1058.5	469.4	362.1	331.4	300.7	297.6	294.6
47.5°	15549.8	13797.9	7149.0	2442.3	981.8	392.7	377.4	306.8	270.0	263.9	263.9
50°	15255.3	14074.0	7308.5	2334.9	883.7	319.1	371.3	288.4	239.3	230.1	233.2
52.5°	15292.1	14399.3	7646.1	2184.6	760.9	254.7	300.7	273.1	217.8	202.5	205.6
55°	14703.0	14055.6	7692.1	2025.0	595.2	196.4	230.1	239.3	184.1	178.0	178.0
57.5°	12656.5	11901.7	6786.9	1641.5	392.7	162.6	165.7	208.6	159.5	153.4	156.5
60°	10830.9	9554.5	5461.5	1083.1	245.5	128.9	119.7	211.7	141.1	138.1	147.3
62.5°	9873.6	7851.6	4142.1	671.9	168.8	98.2	82.8	171.8	122.7	122.7	135.0
65°	7133.7	5274.3	2408.6	352.8	119.7	76.7	61.4	98.2	101.3	104.3	110.5
67.5°	4418.3	2663.2	1015.6	171.8	79.8	52.2	39.9	61.4	67.5	67.5	73.6
70°	2181.5	1061.6	337.5	98.2	61.4	43.0	27.6	33.8	33.8	30.7	33.8
72.5°	675.0	319.1	85.9	61.4	43.0	27.6	15.3	12.3	6.1	0.0	3.1
75°	76.7	61.4	55.2	43.0	27.6	12.3	3.1	0.0	0.0	0.0	0.0
77.5°	46.0	52.2	52.2	43.0	27.6	9.2	0.0	0.0	0.0	0.0	0.0
80°	36.8	39.9	43.0	39.9	24.5	12.3	0.0	0.0	0.0	0.0	0.0
82.5°	46.0	52.2	58.3	52.2	33.8	15.3	6.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.2	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°	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9
2.5°	6725.6	6658.1	6753.2	6612.1	6609.0	6612.1	6572.2	6535.4	6593.6	6750.1	6765.5
5°	5133.2	5277.4	5323.4	5473.7	5390.9	5268.2	5292.7	5209.9	5412.4	5501.4	5430.8
7.5°	3737.1	3727.9	4037.8	4056.2	4096.1	4099.2	4093.0	3930.4	3764.7	3801.6	3912.0
10°	2899.5	2743.0	2893.4	2878.0	2976.2	2948.6	2988.5	2813.6	2871.9	2871.9	2942.4
12.5°	2362.5	2196.9	2169.2	2129.4	2169.2	2184.6	2199.9	2166.2	2264.4	2310.4	2359.5
15°	1804.1	1712.1	1687.5	1610.8	1623.1	1666.1	1702.9	1718.2	1687.5	1758.1	1764.2
17.5°	1310.1	1307.1	1322.4	1319.3	1307.1	1297.9	1294.8	1254.9	1242.6	1248.8	1273.3
20°	994.1	1018.7	1070.8	1123.0	1150.6	1116.8	1070.8	1003.3	975.7	981.8	984.9
22.5°	849.9	886.7	957.3	1015.6	1043.2	981.8	899.0	840.7	828.4	825.4	822.3
25°	770.1	813.1	865.2	883.7	880.6	843.8	782.4	757.9	751.7	745.6	718.0
27.5°	727.2	742.5	751.7	773.2	782.4	757.9	742.5	705.7	699.6	699.6	681.1
30°	702.6	693.4	705.7	690.4	702.6	684.2	687.3	687.3	671.9	678.1	678.1
32.5°	653.5	656.6	656.6	625.9	635.1	613.6	635.1	653.5	656.6	659.7	684.2
35°	478.6	533.9	561.5	561.5	570.7	555.4	552.3	530.8	503.2	475.6	463.3
37.5°	420.3	441.8	478.6	500.1	515.5	503.2	475.6	441.8	426.5	414.2	401.9
40°	374.3	392.7	417.3	441.8	472.5	457.2	414.2	398.9	380.5	380.5	368.2
42.5°	337.5	346.7	362.1	398.9	432.6	401.9	371.3	359.0	349.8	346.7	343.6
45°	303.8	306.8	322.2	352.8	392.7	362.1	331.4	316.0	319.1	322.2	319.1
47.5°	273.1	279.2	288.4	325.2	349.8	334.4	300.7	291.5	291.5	291.5	294.6
50°	236.3	251.6	270.0	300.7	319.1	309.9	282.3	270.0	263.9	263.9	266.9
52.5°	211.7	224.0	248.5	285.3	309.9	294.6	266.9	248.5	236.3	233.2	239.3
55°	184.1	205.6	245.5	273.1	306.8	291.5	260.8	239.3	217.8	214.8	214.8
57.5°	165.7	199.4	236.3	270.0	297.6	285.3	260.8	233.2	205.6	202.5	202.5
60°	156.5	193.3	230.1	260.8	297.6	279.2	257.7	227.0	196.4	196.4	193.3
62.5°	147.3	181.0	217.8	248.5	285.3	270.0	248.5	217.8	187.2	187.2	181.0
65°	122.7	156.5	181.0	208.6	248.5	233.2	211.7	190.2	165.7	159.5	162.6
67.5°	85.9	107.4	131.9	159.5	184.1	178.0	168.8	153.4	131.9	128.9	125.8
70°	43.0	58.3	79.8	107.4	128.9	122.7	116.6	104.3	92.0	89.0	89.0
72.5°	6.1	18.4	33.8	49.1	67.5	70.6	67.5	64.4	61.4	58.3	61.4
75°	0.0	0.0	0.0	12.3	27.6	33.8	39.9	46.0	46.0	39.9	49.1
77.5°	0.0	0.0	0.0	0.0	3.1	15.3	30.7	39.9	49.1	43.0	58.3
80°	0.0	0.0	0.0	0.0	3.1	18.4	30.7	43.0	49.1	43.0	61.4
82.5°	0.0	0.0	0.0	0.0	3.1	21.5	30.7	39.9	46.0	43.0	55.2
85°	0.0	0.0	0.0	0.0	9.2	18.4	12.3	6.1	3.1	3.1	9.2
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: P530965

CATALOG NUMBER: GALN-SA6B-727-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9	7909.9
2.5°	6851.4	7069.2	7302.4	7391.4	7667.5	7876.2	8017.3	8321.1	8367.1	8370.2
5°	5504.4	5614.9	6013.8	6200.9	6612.1	6931.2	7271.7	7762.6	8091.0	8115.5
7.5°	3912.0	4218.8	4387.6	4875.4	5381.7	5881.8	6388.1	6958.8	7339.2	7348.4
10°	3148.0	3347.5	3648.1	4013.3	4439.7	4949.1	5624.1	6286.8	6673.4	6768.5
12.5°	2534.4	2884.1	3227.8	3605.2	3930.4	4313.9	5041.1	5924.8	6243.9	6434.1
15°	1951.4	2270.5	2675.5	3117.3	3485.5	3997.9	4826.3	5835.8	6372.7	6437.2
17.5°	1439.0	1724.4	2098.7	2516.0	3068.2	3795.4	4863.2	6286.8	6793.1	6900.5
20°	1034.0	1199.7	1494.2	1979.0	2681.6	3559.2	4900.0	6744.0	7514.1	7698.2
22.5°	819.2	886.7	1080.0	1509.6	2249.0	3310.6	5160.8	7618.4	8505.2	8772.1
25°	711.8	748.7	840.7	1190.5	1975.9	3286.1	5578.1	8667.8	9824.5	10017.8
27.5°	687.3	693.4	773.2	1092.3	1828.7	3123.5	5737.6	9413.4	10646.8	10843.2
30°	724.1	822.3	828.4	923.5	1555.6	2801.3	5820.5	10134.4	11343.3	11487.5
32.5°	625.9	595.2	616.7	714.9	1368.4	2614.1	5976.9	10763.4	12138.0	12239.2
35°	435.7	457.2	506.3	619.8	1196.6	2417.8	6016.8	11456.8	12892.7	12997.1
37.5°	401.9	414.2	454.1	527.7	1052.4	2307.3	5961.6	11963.1	13675.1	13819.4
40°	374.3	389.7	411.1	478.6	945.0	2184.6	5884.9	12420.2	14153.8	14509.7
42.5°	352.8	365.1	383.5	457.2	853.0	2061.9	5777.5	13064.6	14583.3	14893.2
45°	328.3	346.7	368.2	444.9	800.8	1979.0	5697.7	13024.7	14831.9	14997.6
47.5°	303.8	334.4	359.0	414.2	785.5	1939.1	5731.5	12874.3	14629.4	14515.8
50°	279.2	319.1	362.1	343.6	748.7	1859.4	5771.4	13079.9	14147.7	14126.2
52.5°	257.7	303.8	337.5	282.3	665.8	1782.6	6158.0	13349.9	14488.2	14202.9
55°	227.0	273.1	270.0	227.0	540.0	1724.4	6461.7	13356.1	14258.1	14365.5
57.5°	205.6	242.4	211.7	190.2	398.9	1442.1	5967.7	11199.1	12205.5	12395.7
60°	190.2	236.3	159.5	150.3	260.8	1040.1	5209.9	8673.9	9701.8	10060.8
62.5°	174.9	224.0	125.8	122.7	181.0	739.4	4283.3	7259.5	8361.0	8848.8
65°	153.4	159.5	101.3	95.1	128.9	398.9	2608.0	4998.2	6250.0	6431.0
67.5°	125.8	122.7	82.8	76.7	85.9	193.3	1150.6	2503.7	3623.6	3927.3
70°	101.3	101.3	70.6	61.4	61.4	89.0	300.7	997.2	1638.4	1813.3
72.5°	73.6	76.7	55.2	49.1	46.0	43.0	49.1	199.4	429.6	549.2
75°	64.4	67.5	55.2	43.0	33.8	27.6	21.5	18.4	24.5	39.9
77.5°	70.6	70.6	58.3	39.9	30.7	21.5	12.3	6.1	6.1	3.1
80°	89.0	92.0	76.7	52.2	36.8	24.5	15.3	6.1	3.1	3.1
82.5°	95.1	104.3	85.9	64.4	46.0	27.6	15.3	3.1	0.0	0.0
85°	24.5	39.9	67.5	58.3	46.0	27.6	15.3	3.1	0.0	0.0
87.5°	0.0	3.1	9.2	9.2	12.3	12.3	9.2	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)