

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: P650913

Luminaire Tested: **GALN-SA5C-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650913
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-SA5C-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA 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: 16369.2 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

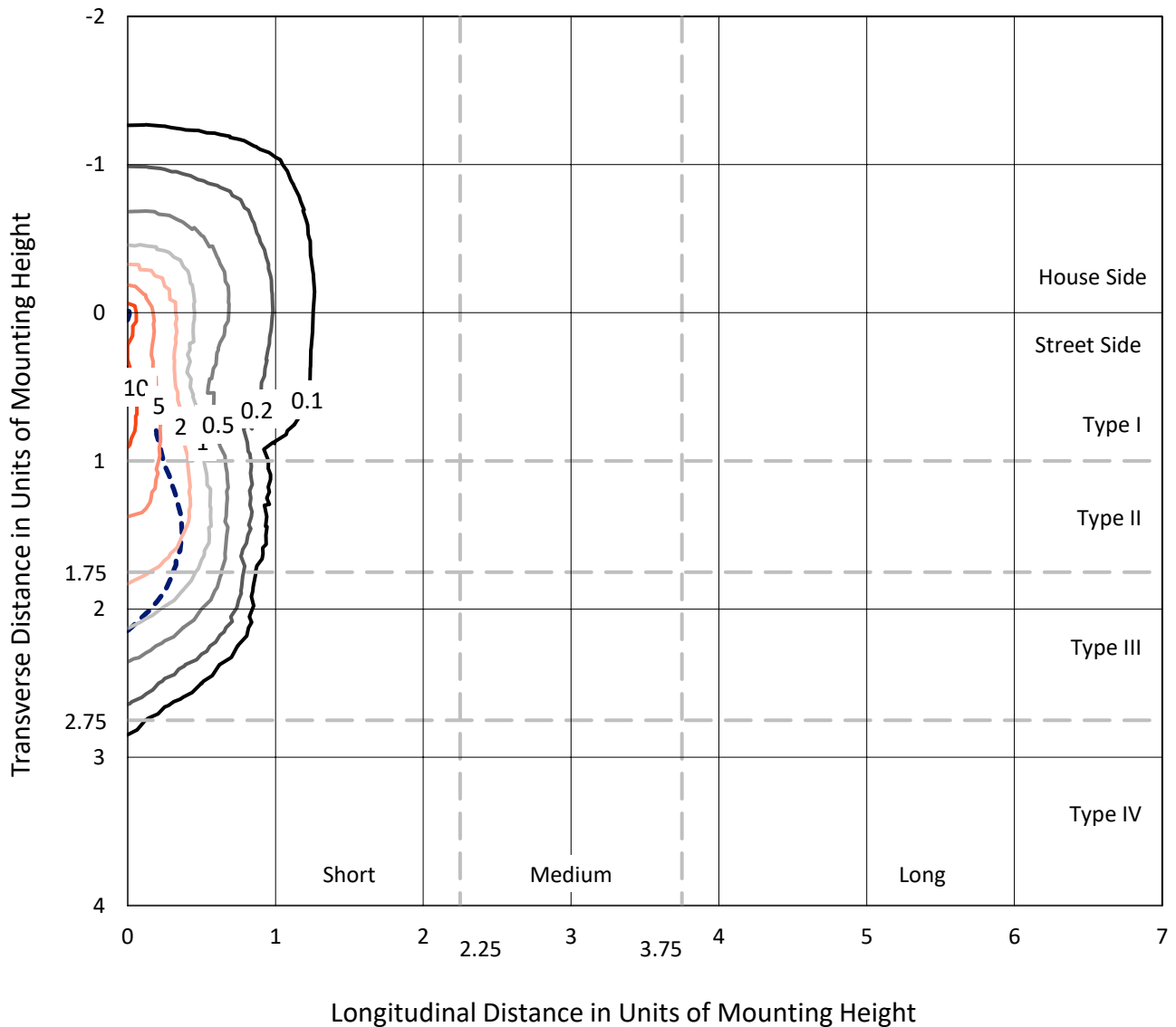
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

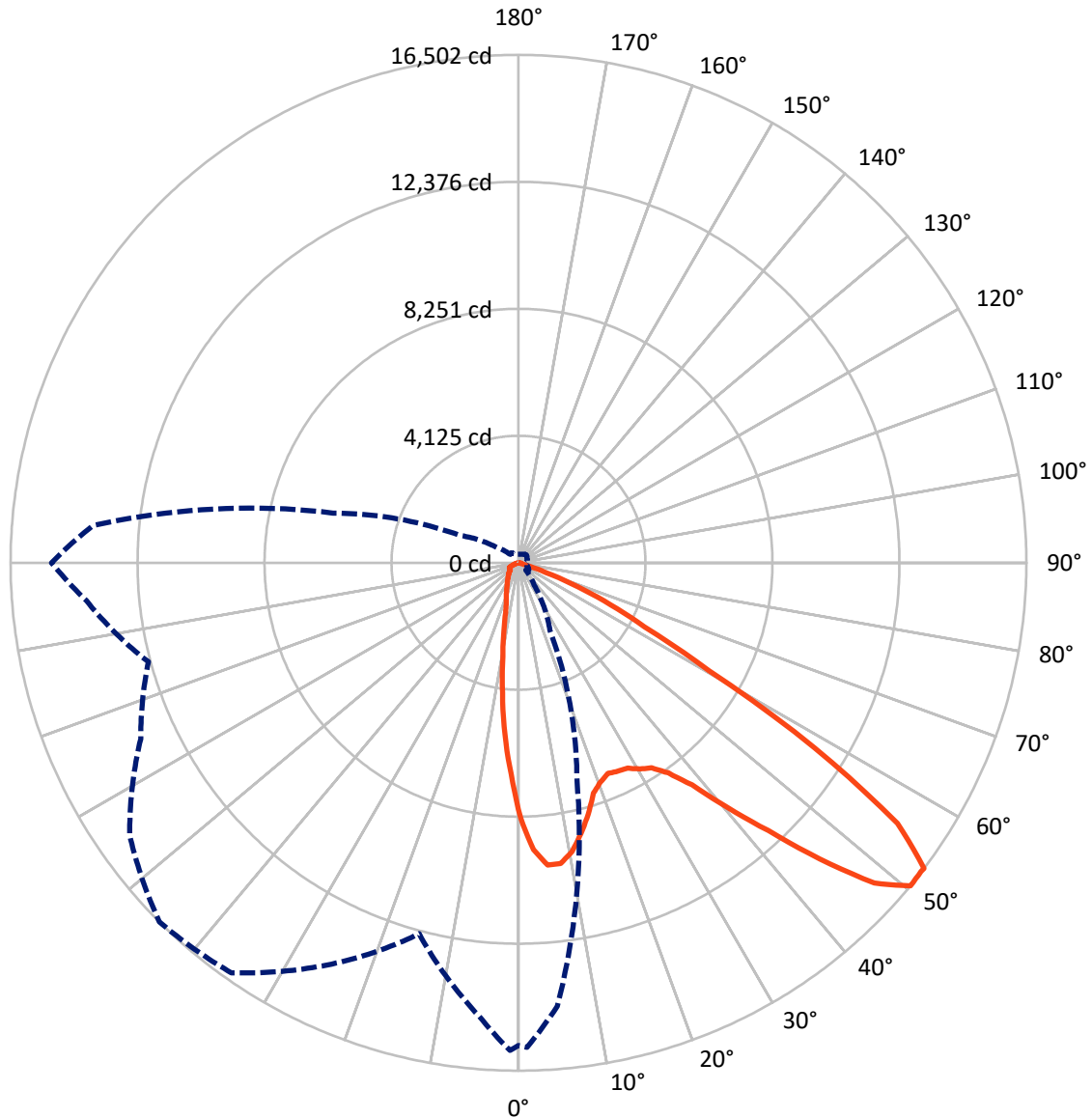
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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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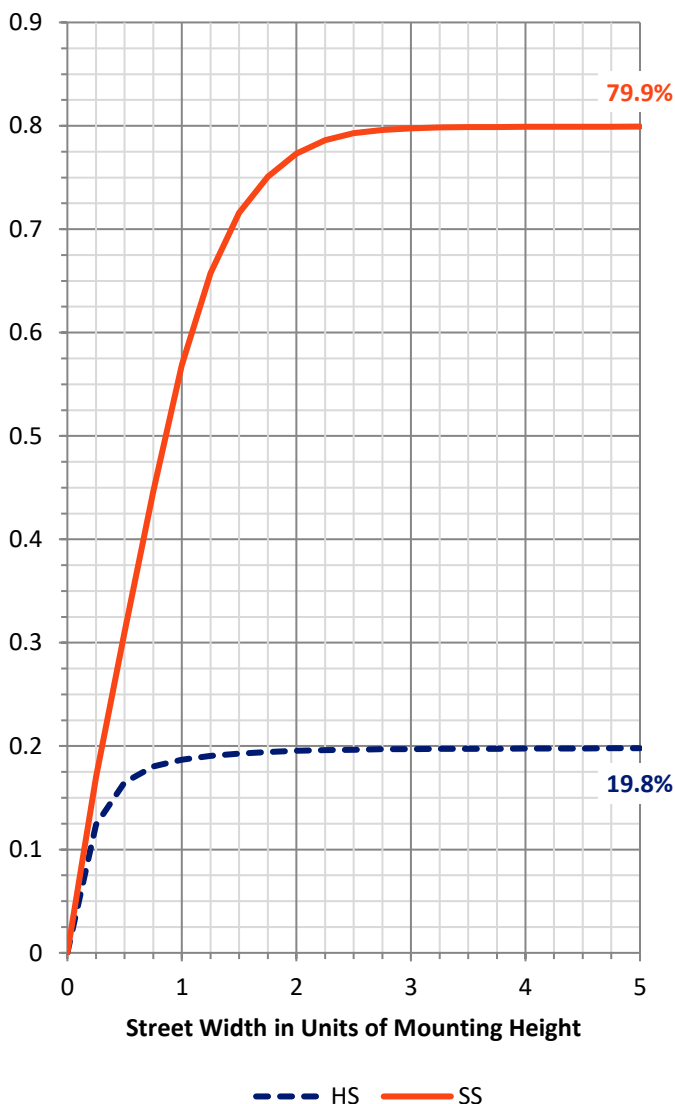
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3278.8	0.0	3278.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	13090.5	0.0	13090.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	16369.2	0.0	16369.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.1	3.7
10°-20°	1202.6	7.3
20°-30°	1806.6	11.0
30°-40°	2711.7	16.6
40°-50°	3811.1	23.3
50°-60°	4110.9	25.1
60°-70°	1908.7	11.7
70°-80°	179.6	1.1
80°-90°	33.1	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°	16369.2	100.0
0°-180°	16369.2	100.0

Coefficient of Utilization

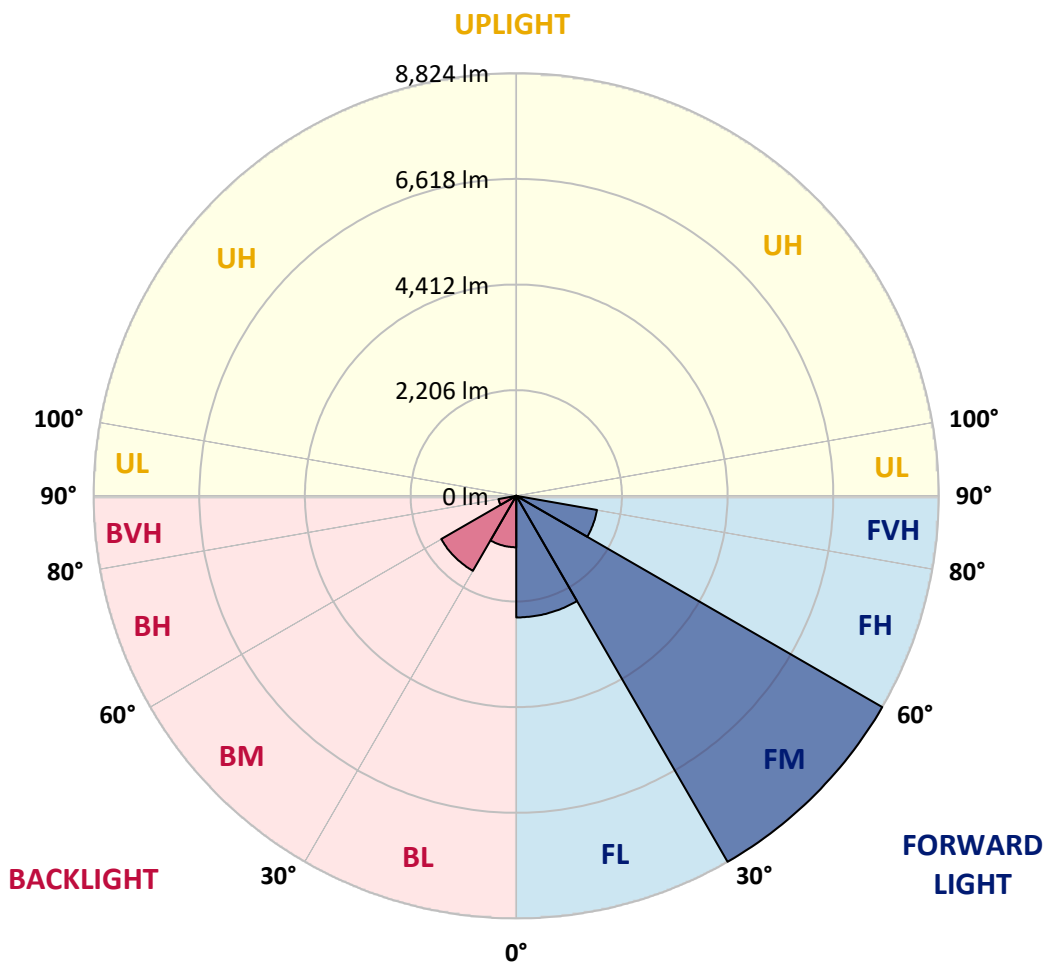


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2539.5	15.5			
FM (30°-60°)	8824.2	53.9			
FH (60°-80°)	1711.8	10.5			G1/1800
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	1074.7	6.6	B3/2500		
BM (30°-60°)	1809.4	11.1	B2/2500		
BH (60°-80°)	376.5	2.3	B1/500		G1/500
BVH (80°-90°)	18.2	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3
2.5°	8629.2	8496.1	8327.2	8187.6	7979.7	7560.8	7447.1	7310.7	7197.0	7044.4	6830.0
5°	7846.6	7804.3	7726.4	7200.3	6820.3	6313.6	5897.9	5722.6	5492.0	5303.6	5167.2
7.5°	7249.0	7080.1	6833.3	6303.9	5696.6	5154.2	4693.0	4423.4	4118.1	4014.3	3829.1
10°	6609.2	6648.2	6284.4	5540.7	4806.7	4368.2	4082.5	3822.6	3546.6	3364.7	3101.6
12.5°	6404.6	6277.9	5998.6	5079.5	4452.7	4043.4	3695.9	3374.4	3082.1	2789.8	2536.5
15°	6537.8	6342.9	5953.1	4982.1	4179.9	3670.0	3234.7	2799.6	2530.0	2156.5	1893.4
17.5°	7015.1	6859.3	6336.3	5085.9	4040.2	3312.7	2666.4	2218.2	1805.7	1468.0	1334.8
20°	7810.9	7590.0	6934.0	5219.2	3832.4	2880.8	2163.0	1610.9	1221.1	1078.2	1003.6
22.5°	8590.3	8470.1	7642.0	5475.8	3647.2	2497.5	1623.9	1084.7	912.7	886.7	837.9
25°	10074.5	9714.1	8723.4	5940.2	3504.4	2137.0	1224.4	873.6	773.0	753.5	760.0
27.5°	10957.9	10655.9	9723.8	6248.7	3345.2	1861.0	1036.0	802.2	734.0	691.8	675.5
30°	11805.6	11454.8	10220.7	6430.5	3004.1	1568.6	919.1	769.7	753.5	691.8	672.3
32.5°	12458.4	12114.1	10938.5	6703.4	2864.5	1380.3	756.7	600.8	558.6	552.1	610.6
35°	13458.7	13091.7	11552.2	6852.7	2757.3	1282.9	656.1	535.9	487.2	467.7	471.0
37.5°	14390.8	14140.7	12120.7	6911.3	2643.7	1253.6	587.9	480.6	438.4	425.5	422.2
40°	15170.3	14611.6	12659.7	6972.9	2595.0	1198.4	545.6	438.4	409.2	389.7	389.7
42.5°	15527.6	14959.1	13263.8	6937.2	2582.0	1110.7	545.6	402.8	380.0	360.5	357.3
45°	15449.6	15219.0	13533.4	6920.9	2582.0	1023.1	496.9	393.0	360.5	334.5	328.0
47.5°	15650.9	15348.9	13871.1	6989.1	2530.0	961.3	419.0	412.4	341.0	308.6	302.0
50°	15686.7	15745.1	14459.0	7343.2	2416.4	883.4	328.0	406.0	328.0	279.3	272.8
52°	15920.5	15556.7	14637.6	7531.6	2296.2	824.9	276.1	347.5	315.0	259.8	253.3
52.5°	15599.0	15836.0	14679.8	7599.8	2309.1	785.9	266.3	341.0	308.6	259.8	243.6
55°	15238.5	15465.8	14507.8	7745.9	2117.6	617.0	207.9	246.8	279.3	227.3	217.6
57.5°	13244.3	13474.9	12607.8	7093.1	1724.6	435.2	172.2	185.1	246.8	211.1	201.3
60°	11773.1	11607.5	10581.2	5917.4	1224.4	243.6	136.4	142.9	269.5	194.9	191.6
62.5°	10759.8	10405.8	8843.6	4569.6	747.0	162.4	107.1	110.4	207.9	181.9	181.9
65°	7960.2	7564.0	5875.2	2763.9	367.0	113.7	81.2	87.7	129.9	155.9	155.9
67.5°	4543.6	4390.9	2838.5	1247.1	152.6	71.5	61.7	68.2	100.7	126.7	120.2
70°	2088.3	1873.9	1091.3	263.1	71.5	48.7	48.7	55.3	81.2	94.2	87.7
72.5°	610.6	578.1	266.3	42.2	29.3	29.3	32.5	42.2	61.7	71.5	64.9
75°	45.5	29.3	19.5	13.0	13.0	19.5	26.0	42.2	61.7	68.2	55.3
77.5°	3.3	6.5	3.3	3.3	9.8	19.5	29.3	52.0	81.2	84.4	61.7
80°	3.3	3.3	0.0	3.3	9.8	19.5	32.5	58.4	90.9	97.5	52.0
82.5°	0.0	0.0	0.0	3.3	13.0	26.0	38.9	61.7	84.4	103.9	55.3
85°	0.0	0.0	0.0	3.3	19.5	35.7	45.5	16.2	9.8	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°	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3
2.5°	6982.7	6898.2	6865.8	6895.0	6885.3	6875.5	7054.1	7015.1	7008.6	7067.1	7054.1
5°	5241.9	5092.5	5501.7	5336.1	5508.2	5612.2	5631.6	5641.3	5761.5	5634.9	5800.5
7.5°	3734.9	3773.9	3770.6	3881.0	4079.2	4254.5	4358.5	4277.3	4270.8	4254.5	4183.1
10°	2984.7	2916.5	2903.5	2877.5	2939.2	3088.6	3215.3	3114.6	3043.2	3140.5	3111.4
12.5°	2439.1	2344.9	2292.9	2189.0	2192.2	2292.9	2292.9	2292.9	2364.4	2419.6	2461.8
15°	1870.7	1792.8	1792.8	1688.8	1666.1	1669.4	1721.3	1727.8	1841.5	1873.9	1890.2
17.5°	1308.8	1266.6	1315.3	1357.5	1331.6	1338.1	1357.5	1364.0	1380.3	1367.3	1399.8
20°	1006.8	1000.3	1013.3	1088.0	1143.2	1175.7	1152.9	1120.5	1101.0	1055.5	1055.5
22.5°	854.1	867.2	889.9	951.6	1023.1	1042.5	1016.5	941.8	883.4	876.9	880.1
25°	760.0	773.0	808.7	847.6	886.7	919.1	893.1	837.9	805.4	776.2	776.2
27.5°	701.5	708.0	727.5	756.7	789.2	815.2	805.4	776.2	740.5	727.5	698.3
30°	656.1	665.8	688.5	695.0	724.3	737.2	721.0	714.5	691.8	675.5	665.8
32.5°	633.3	630.1	646.3	652.8	656.1	665.8	646.3	656.1	652.8	626.8	617.0
35°	477.4	503.4	545.6	581.4	591.1	604.1	600.8	587.9	552.1	522.8	487.2
37.5°	428.7	445.0	467.7	496.9	535.9	552.1	545.6	513.2	471.0	451.4	445.0
40°	396.2	406.0	425.5	445.0	483.9	513.2	490.4	461.2	428.7	412.4	402.8
42.5°	367.0	370.2	380.0	399.5	428.7	474.2	435.2	396.2	383.2	373.5	367.0
45°	334.5	334.5	347.5	357.3	389.7	431.9	393.0	357.3	350.8	344.2	341.0
47.5°	308.6	311.8	318.3	331.3	357.3	386.5	360.5	331.3	315.0	311.8	305.3
50°	276.1	279.3	292.3	305.3	337.7	354.0	337.7	305.3	289.1	279.3	279.3
52°	250.1	259.8	272.8	298.8	321.5	347.5	328.0	292.3	272.8	263.1	256.6
52.5°	246.8	253.3	266.3	295.5	321.5	344.2	324.8	289.1	266.3	259.8	253.3
55°	220.8	230.6	253.3	289.1	318.3	344.2	318.3	285.8	253.3	237.1	230.6
57.5°	211.1	217.6	246.8	292.3	315.0	344.2	318.3	285.8	253.3	224.1	217.6
60°	201.3	214.4	246.8	282.6	311.8	347.5	321.5	282.6	246.8	211.1	211.1
62.5°	191.6	201.3	243.6	276.1	298.8	334.5	308.6	276.1	237.1	201.3	198.1
65°	165.7	181.9	214.4	230.6	256.6	289.1	263.1	240.4	207.9	178.6	175.3
67.5°	126.7	133.1	159.1	178.6	194.9	224.1	211.1	181.9	159.1	136.4	136.4
70°	87.7	94.2	113.7	123.4	139.7	155.9	146.2	123.4	107.1	94.2	90.9
72.5°	61.7	64.9	71.5	78.0	84.4	90.9	87.7	71.5	61.7	58.4	55.3
75°	48.7	55.3	58.4	55.3	52.0	48.7	48.7	42.2	35.7	32.5	32.5
77.5°	48.7	52.0	48.7	42.2	35.7	32.5	29.3	26.0	19.5	16.2	19.5
80°	42.2	42.2	42.2	35.7	32.5	29.3	26.0	22.7	19.5	16.2	16.2
82.5°	45.5	45.5	42.2	35.7	35.7	29.3	29.3	26.0	22.7	16.2	16.2
85°	0.0	0.0	0.0	6.5	16.2	29.3	29.3	26.0	22.7	19.5	19.5
87.5°	0.0	0.0	0.0	0.0	3.3	6.5	13.0	16.2	19.5	19.5	19.5
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°	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3
2.5°	7171.0	7294.5	7528.3	7762.1	7905.1	8073.9	8379.2	8541.6	8752.7	8856.7	9061.3
5°	5777.8	6070.1	6173.9	6440.3	6726.1	7011.9	7466.6	7966.7	8382.4	8668.3	9038.5
7.5°	4215.6	4283.8	4686.5	4865.1	5332.8	5852.4	6472.8	7102.8	7629.0	8096.6	8379.2
10°	3160.1	3410.2	3663.5	4004.5	4381.2	4917.1	5511.4	6206.5	6888.5	7356.1	7713.4
12.5°	2539.7	2737.9	3075.6	3442.6	3907.0	4261.1	4858.6	5547.2	6430.5	6888.5	7359.4
15°	1922.7	2176.0	2559.2	2939.2	3429.6	3803.1	4407.2	5274.3	6411.0	7041.1	7447.1
17.5°	1425.7	1597.9	1942.1	2367.6	2867.7	3393.9	4209.1	5245.1	6628.7	7378.9	7797.8
20°	1091.3	1149.7	1367.3	1747.3	2289.7	2978.1	3887.5	5371.8	7271.7	8200.6	8626.1
22.5°	883.4	909.4	993.8	1256.9	1783.0	2614.4	3734.9	5459.4	7996.0	9184.6	9753.0
25°	769.7	763.2	818.5	932.1	1393.3	2273.4	3540.0	5790.7	8882.6	10340.9	10850.8
27.5°	701.5	701.5	727.5	808.7	1156.2	2052.5	3416.6	6027.9	9775.7	11357.4	11633.5
30°	665.8	672.3	747.0	773.0	961.3	1789.5	3212.0	6268.1	10629.9	12007.0	12386.9
32.5°	617.0	591.1	574.8	639.8	808.7	1552.4	3007.4	6368.8	11321.7	12802.6	13127.4
35°	474.2	461.2	480.6	529.4	695.0	1351.1	2780.1	6482.5	12117.4	13725.0	13790.0
37.5°	428.7	425.5	438.4	480.6	584.6	1175.7	2617.7	6453.3	12724.7	14488.2	14312.9
40°	396.2	396.2	406.0	441.7	522.8	1052.3	2448.8	6427.3	13312.5	15345.6	14832.5
42.5°	370.2	370.2	386.5	409.2	496.9	971.1	2322.2	6391.6	13806.2	15871.8	15137.7
45°	334.5	344.2	370.2	393.0	503.4	915.8	2228.0	6255.2	13975.1	15865.3	14991.7
47.5°	308.6	321.5	347.5	380.0	454.6	899.6	2163.0	6135.0	13916.6	15475.6	14533.7
50°	279.3	295.5	331.3	386.5	386.5	867.2	2094.8	6242.2	13874.4	15173.5	14095.2
52°	259.8	272.8	318.3	376.8	337.7	798.9	2052.5	6450.0	14046.6	15134.6	13900.4
52.5°	256.6	266.3	308.6	370.2	321.5	785.9	2023.4	6498.7	14101.7	15037.1	14033.5
55°	227.3	240.4	282.6	289.1	263.1	646.3	1929.2	6609.2	13828.9	14845.5	13906.9
57.5°	214.4	220.8	250.1	237.1	227.3	487.2	1659.6	6437.0	12283.0	13185.9	12939.0
60°	198.1	204.6	233.8	185.1	191.6	341.0	1247.1	5589.4	9863.4	10987.2	11432.1
62.5°	191.6	188.4	220.8	149.4	162.4	246.8	880.1	4543.6	7599.8	9045.0	9814.7
65°	168.9	165.7	159.1	126.7	139.7	191.6	526.1	2965.2	5355.6	6843.0	7265.2
67.5°	129.9	136.4	116.9	100.7	116.9	149.4	292.3	1328.4	2809.3	4105.2	4446.2
70°	90.9	97.5	94.2	87.7	103.9	123.4	168.9	454.6	1162.7	2156.5	2377.3
72.5°	55.3	68.2	71.5	74.7	90.9	107.1	120.2	146.2	308.6	763.2	948.3
75°	32.5	45.5	55.3	64.9	74.7	90.9	100.7	103.9	107.1	142.9	230.6
77.5°	22.7	32.5	48.7	61.7	74.7	90.9	107.1	113.7	107.1	100.7	107.1
80°	19.5	32.5	45.5	58.4	78.0	94.2	107.1	107.1	103.9	90.9	97.5
82.5°	19.5	32.5	48.7	61.7	74.7	90.9	103.9	107.1	97.5	90.9	94.2
85°	22.7	35.7	52.0	64.9	81.2	74.7	68.2	55.3	52.0	42.2	45.5
87.5°	22.7	32.5	32.5	35.7	38.9	38.9	38.9	35.7	29.3	26.0	26.0
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: P650913

CATALOG NUMBER: GALN-SA5C-840-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3	8301.3
2.5°	9070.9	9330.8	9321.1	9327.5	9288.6	9025.5	8898.9	8577.4	8668.3	8629.2
5°	9418.5	9675.0	9895.9	9869.9	9571.2	9213.9	8684.5	8184.4	8047.9	7846.6
7.5°	9070.9	9688.1	9892.7	9863.4	9421.7	8963.8	8119.4	7619.2	7382.1	7249.0
10°	8518.8	9233.3	9486.7	9538.6	9239.9	8544.8	7768.7	6966.4	6839.8	6609.2
12.5°	8203.8	8723.4	8879.4	9019.1	8915.1	8395.5	7502.3	6732.6	6557.2	6404.6
15°	7947.3	8255.8	8320.8	8479.9	8541.6	8262.3	7642.0	6985.9	6554.0	6537.8
17.5°	8184.4	8057.7	7820.6	7869.3	8064.2	8265.5	8002.5	7486.1	7067.1	7015.1
20°	8577.4	8018.7	7482.8	7603.0	7765.4	8382.4	8548.1	8184.4	7944.0	7810.9
22.5°	9028.7	8086.9	7375.7	7434.1	7742.7	8645.5	9431.5	9230.1	8781.9	8590.3
25°	9863.4	8275.3	7460.1	7499.0	7921.3	9012.5	10230.4	10379.8	10113.5	10074.5
27.5°	10678.6	8762.5	7645.2	7557.6	8012.2	9369.7	10714.3	11516.6	11048.9	10957.9
30°	11094.3	9158.7	7921.3	7771.8	8389.0	9587.4	11006.7	12257.0	11847.8	11805.6
32.5°	11730.9	9519.2	8135.7	7944.0	8600.1	9856.9	11552.2	13065.7	12669.5	12458.4
35°	11997.2	9912.1	8606.5	8382.4	9204.2	10233.7	11831.6	13786.7	13663.3	13458.7
37.5°	12510.4	10334.4	9161.9	9148.9	9934.9	10724.1	12334.9	14767.5	14744.8	14390.8
40°	12552.6	10795.5	10038.8	10448.0	11065.1	11578.2	12776.6	15040.4	15410.6	15170.3
42.5°	12617.5	11604.2	11555.5	11893.3	12422.7	12312.2	12792.9	15105.3	15670.4	15527.6
45°	12646.8	12412.9	13098.2	13721.8	13942.6	13273.6	12640.2	14981.9	15806.8	15449.6
47.5°	12412.9	13107.9	14345.4	15550.3	15615.2	13864.6	12575.3	14855.3	15888.0	15650.9
50°	12445.4	13543.1	15423.6	16501.8	16264.8	14387.6	12474.6	14777.3	15845.8	15686.7
52°	12367.4	13552.9	15576.2	16482.3	16316.7	14098.5	12302.5	14478.5	15806.8	15920.5
52.5°	12455.1	13494.4	15417.1	16495.4	16281.0	14241.4	12279.8	14644.2	15829.6	15599.0
55°	12153.1	12799.4	14485.0	14942.9	14910.4	12926.1	11581.5	14095.2	15235.2	15238.5
57.5°	10983.9	11094.3	11360.6	11350.9	11201.5	10162.2	9905.6	12961.8	13582.2	13244.3
60°	9678.3	8122.6	7404.9	7112.6	6946.9	6778.0	8762.5	11857.5	11916.0	11773.1
62.5°	8363.0	5631.6	4676.8	4595.6	4634.6	5251.6	8470.1	11419.1	11068.3	10759.8
65°	6748.9	4105.2	3397.1	3290.0	3670.0	4335.8	6856.0	8756.0	8216.8	7960.2
67.5°	4238.3	2994.5	2296.2	2094.8	2552.8	2984.7	4504.6	5501.7	4897.6	4543.6
70°	2513.7	1672.6	1039.3	932.1	1049.1	1591.4	2523.5	2744.4	2270.2	2088.3
72.5°	990.5	613.8	289.1	246.8	256.6	558.6	928.9	906.1	685.2	610.6
75°	266.3	185.1	100.7	81.2	68.2	103.9	149.4	97.5	35.7	45.5
77.5°	123.4	110.4	87.7	68.2	52.0	38.9	19.5	6.5	6.5	3.3
80°	107.1	94.2	81.2	68.2	52.0	32.5	16.2	3.3	3.3	3.3
82.5°	100.7	87.7	74.7	61.7	48.7	32.5	16.2	3.3	0.0	0.0
85°	42.2	55.3	61.7	58.4	52.0	32.5	16.2	3.3	0.0	0.0
87.5°	22.7	19.5	16.2	13.0	9.8	6.5	6.5	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)