

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: P652399

Luminaire Tested: **GALN-SA5B-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17848.6 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

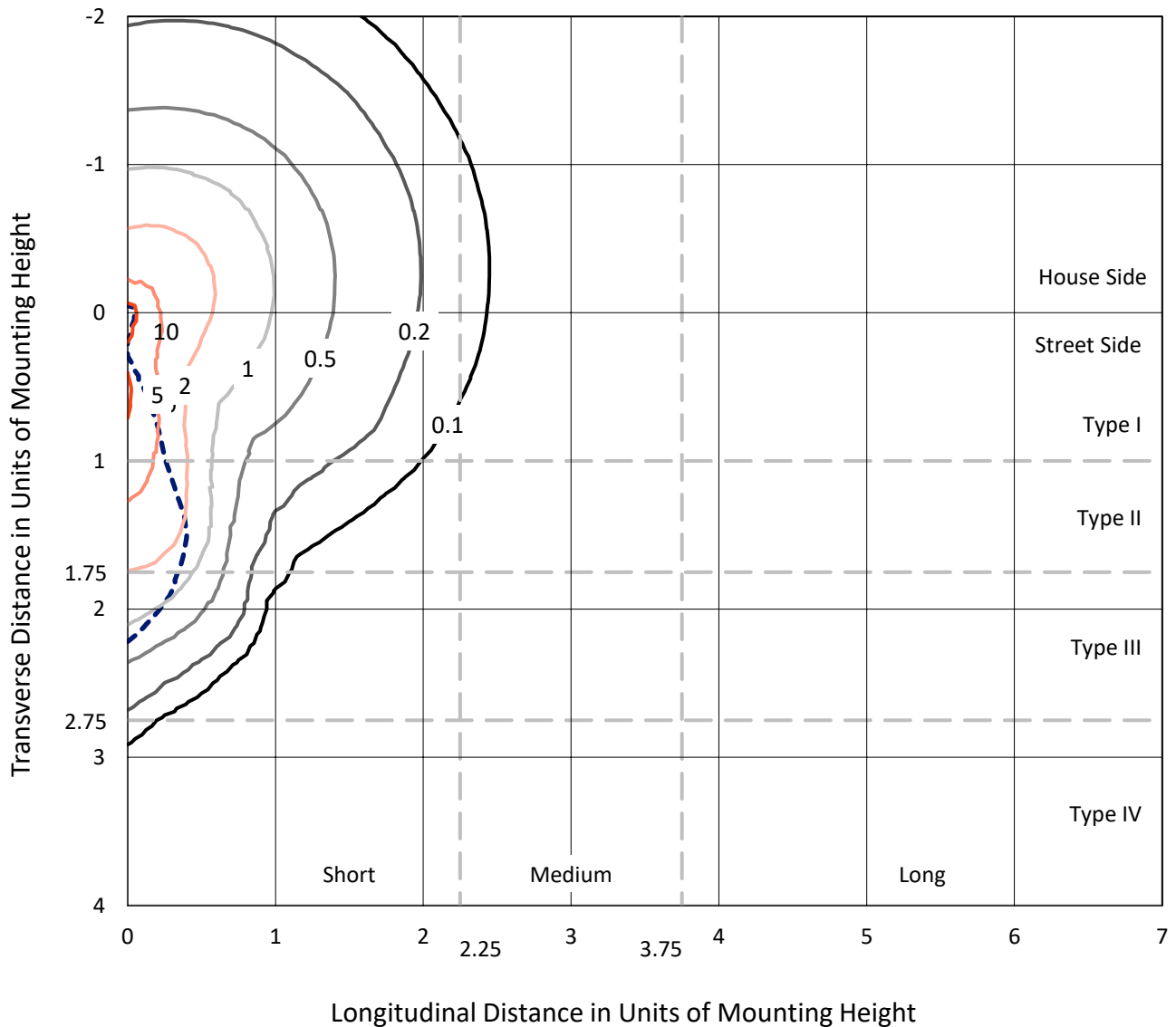
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

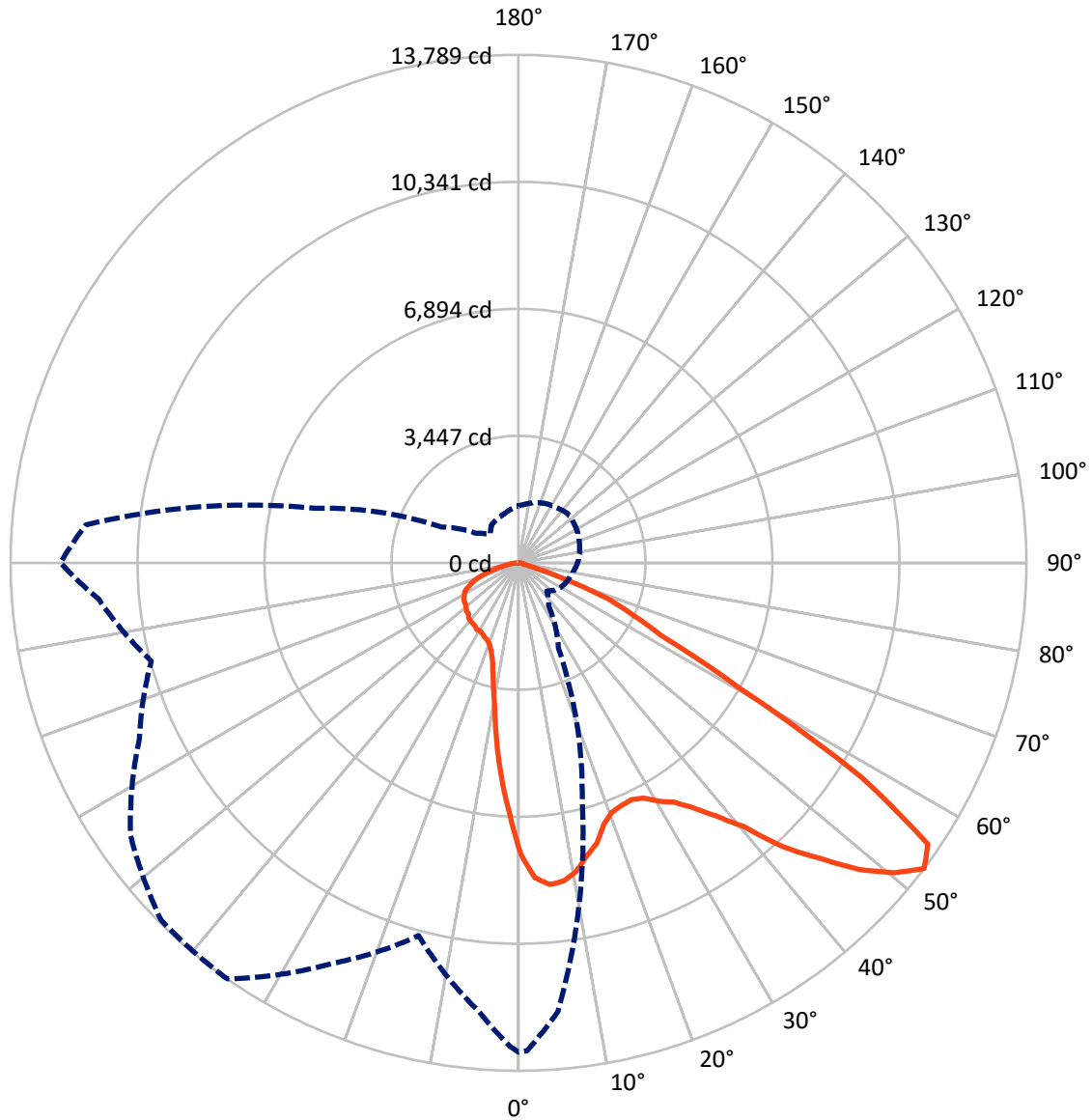
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5380.6	0.0	5380.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	12468.0	0.0	12468.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	17848.6	0.0	17848.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.3	3.4
10°-20°	1310.1	7.3
20°-30°	1979.4	11.1
30°-40°	2860.4	16.0
40°-50°	3806.6	21.3
50°-60°	4257.8	23.9
60°-70°	2399.7	13.4
70°-80°	534.9	3.0
80°-90°	95.3	0.5
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°	17848.6	100.0
0°-180°	17848.6	100.0

Coefficient of Utilization



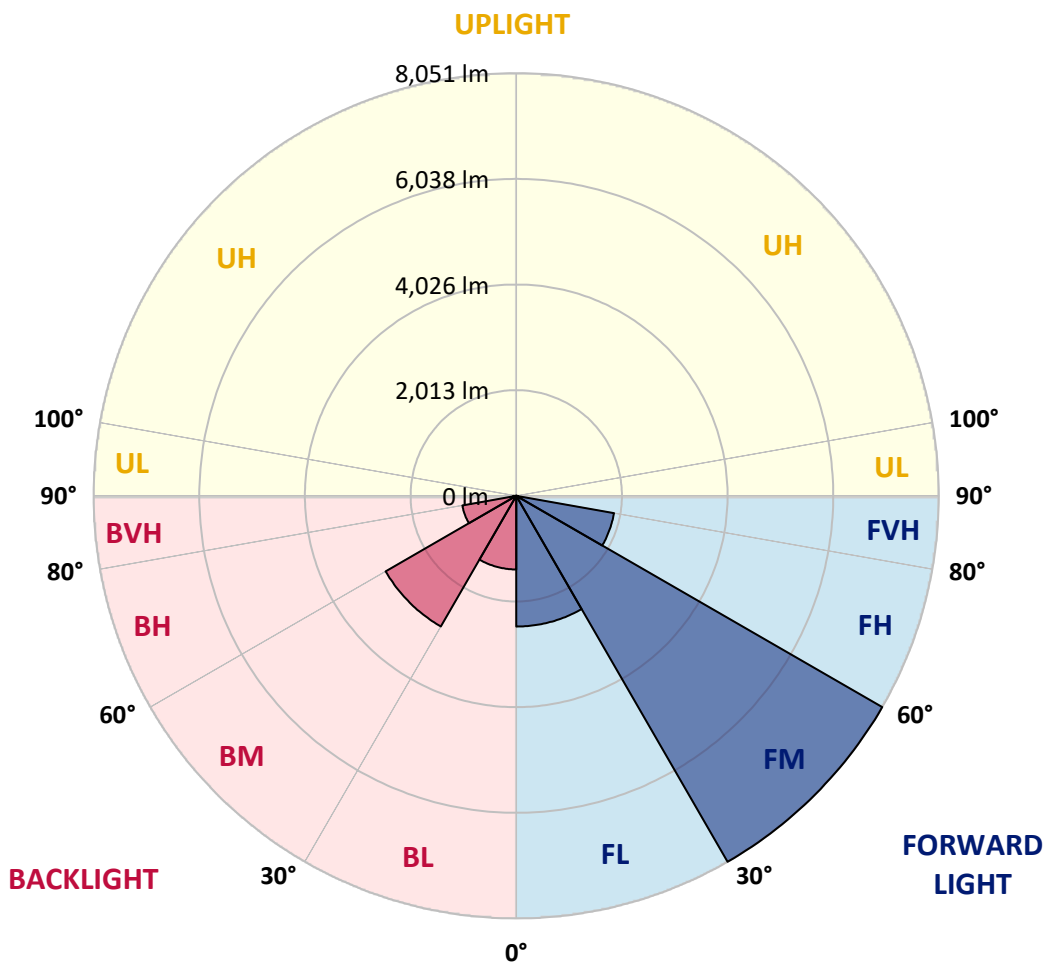
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2490.7	14.0			
FM (30°-60°)	8051.1	45.1			
FH (60°-80°)	1891.7	10.6			G2/5000
FVH (80°-90°)	34.5	0.2			G1/100
BL (0°-30°)	1403.1	7.9	B3/2500		
BM (30°-60°)	2873.8	16.1	B3/5000		
BH (60°-80°)	1042.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	60.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3
2.5°	8053.2	8182.6	8042.9	7794.6	7618.6	7458.2	7290.0	7256.5	7036.6	6997.7	6837.3
5°	7595.3	7566.9	7396.2	7070.2	6710.6	6384.6	6144.0	5911.2	5753.4	5569.8	5556.8
7.5°	7039.2	6873.6	6775.3	6281.2	5836.2	5324.0	5104.1	4749.6	4638.5	4472.9	4387.5
10°	6542.5	6420.9	6190.6	5696.5	5075.6	4736.8	4501.3	4309.9	4180.5	4009.8	3795.1
12.5°	6296.7	6247.5	5988.8	5223.1	4762.6	4400.4	4234.9	4048.6	3828.7	3554.5	3448.4
15°	6340.6	6175.1	5978.5	5132.5	4496.2	4146.9	3883.1	3650.2	3368.2	3106.9	2954.3
17.5°	6669.2	6542.5	6149.2	5189.5	4395.2	3890.8	3412.2	3068.1	2814.7	2579.2	2473.1
20°	7315.9	7132.3	6689.9	5261.9	4177.9	3533.8	2985.4	2561.1	2289.5	2165.3	2129.1
22.5°	8032.6	7923.9	7217.6	5424.9	4004.6	3202.7	2532.7	2108.4	2007.5	1973.8	2041.1
25°	8904.3	8622.4	8037.7	5691.3	3870.1	2920.7	2149.8	1914.4	1862.6	1896.3	1973.8
27.5°	9566.6	9491.6	8612.0	5942.3	3686.4	2581.8	1935.1	1779.8	1795.4	1829.0	1901.4
30°	10353.0	9972.7	9168.2	6115.6	3520.8	2349.0	1785.0	1743.6	1759.1	1816.1	1852.3
32.5°	10826.4	10684.1	9517.4	6376.9	3329.4	2147.2	1668.6	1629.8	1653.1	1738.4	1823.8
35°	11429.2	11147.2	9949.5	6444.2	3194.9	2067.0	1585.8	1557.4	1611.7	1671.2	1766.9
37.5°	12132.9	11938.8	10547.1	6397.6	3122.5	1984.2	1516.0	1503.0	1541.8	1624.6	1735.8
40°	12549.4	12489.9	10860.1	6426.0	3008.7	1911.8	1435.8	1451.3	1531.5	1596.1	1704.8
42.5°	12950.4	12562.4	11323.1	6415.7	2936.2	1813.4	1443.5	1425.4	1487.5	1562.5	1666.0
45°	13038.3	12652.8	11431.8	6343.2	2848.2	1717.7	1384.0	1391.8	1466.8	1560.0	1627.2
47.5°	12981.4	12696.8	11633.6	6322.6	2765.5	1650.5	1296.1	1389.2	1433.1	1508.2	1604.0
50°	12942.6	12927.1	11804.4	6420.9	2654.2	1544.4	1190.0	1355.6	1399.5	1474.6	1578.1
52.5°	13284.1	13250.5	12231.2	6679.6	2566.3	1430.6	1081.4	1270.2	1376.3	1448.7	1549.6
55°	13491.1	13343.6	12963.3	6997.7	2418.8	1280.6	1006.3	1164.1	1319.4	1384.0	1487.5
57.5°	12135.5	12034.5	11726.7	6532.1	2170.5	1084.0	913.2	1055.5	1241.7	1342.7	1448.7
60°	10097.0	9939.1	9150.1	5551.6	1601.3	843.4	856.3	970.1	1221.0	1259.8	1384.0
62.5°	9520.0	9129.4	8055.9	4467.7	1228.8	724.4	768.3	892.5	1112.4	1177.1	1301.3
65°	7553.9	7264.2	5763.8	3225.9	822.7	628.6	701.1	804.6	959.7	1086.5	1200.4
67.5°	4728.9	4452.2	3075.9	1526.3	574.3	538.1	626.0	734.7	861.4	975.3	1102.0
70°	2470.5	2167.8	1420.3	551.0	395.8	439.8	522.6	626.0	750.3	843.4	941.7
72.5°	921.0	747.6	463.1	238.0	274.3	336.3	424.3	499.3	587.3	701.1	755.4
75°	142.3	121.6	119.0	144.9	186.3	243.1	302.7	377.7	455.3	527.7	564.0
77.5°	67.3	64.7	72.4	95.7	124.2	173.3	219.9	292.3	354.4	401.0	421.7
80°	44.0	41.4	46.6	64.7	93.1	129.3	175.9	225.1	282.0	320.8	315.6
82.5°	25.9	28.4	28.4	44.0	64.7	93.1	126.7	170.7	209.6	243.1	222.4
85°	15.6	13.0	13.0	25.9	44.0	75.0	106.1	72.4	75.0	75.0	85.4
87.5°	5.2	5.2	5.2	2.6	5.2	5.2	7.7	13.0	15.6	18.1	23.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3
2.5°	6832.2	6912.3	6883.9	6783.0	6860.6	6873.6	6821.9	7000.3	7034.0	6979.6	6995.2
5°	5538.7	5559.4	5605.9	5704.3	5774.1	5856.9	5856.9	5862.1	5792.2	5968.2	5916.4
7.5°	4315.1	4328.0	4382.3	4591.9	4651.4	4809.2	4876.5	4829.9	4690.2	4630.6	4679.8
10°	3725.2	3650.2	3632.1	3657.9	3792.5	3859.8	3916.7	3901.1	3877.9	3831.3	3779.5
12.5°	3332.0	3277.7	3233.7	3171.7	3179.4	3244.1	3288.1	3251.8	3262.2	3272.5	3288.1
15°	2905.2	2866.4	2843.1	2750.0	2739.6	2783.5	2799.1	2819.8	2858.6	2861.2	2843.1
17.5°	2452.4	2418.8	2470.5	2522.3	2486.1	2488.7	2517.1	2535.2	2524.9	2478.3	2455.0
20°	2142.0	2178.2	2230.0	2279.1	2318.0	2341.2	2351.5	2323.1	2289.5	2193.7	2191.1
22.5°	2051.5	2098.0	2142.0	2217.0	2253.2	2312.8	2258.4	2193.7	2147.2	2100.6	2046.3
25°	1984.2	2023.0	2111.0	2139.4	2209.3	2258.4	2219.7	2155.0	2074.7	2007.5	1966.1
27.5°	1935.1	1979.0	2036.0	2113.5	2167.8	2196.4	2157.5	2131.7	2048.8	1968.7	1909.2
30°	1904.0	1950.5	2054.1	2118.7	2165.3	2188.5	2121.3	2090.3	2030.8	1963.5	1911.8
32.5°	1883.3	1924.7	2012.7	2095.4	2126.5	2126.5	2136.8	2100.6	2017.8	1904.0	1860.0
35°	1816.1	1873.0	1945.4	2041.1	2098.0	2131.7	2080.0	2038.5	1984.2	1867.8	1787.6
37.5°	1777.3	1816.1	1909.2	1999.7	2048.8	2085.1	2064.4	1992.0	1919.5	1823.8	1759.1
40°	1735.8	1798.0	1880.7	1966.1	2020.4	2056.7	2041.1	1955.7	1867.8	1777.3	1733.3
42.5°	1707.4	1748.8	1834.1	1929.8	1994.5	2064.4	2017.8	1911.8	1849.7	1725.5	1676.4
45°	1684.1	1751.4	1842.0	1880.7	1948.0	2020.4	1937.7	1873.0	1800.5	1710.0	1668.6
47.5°	1655.7	1717.7	1777.3	1880.7	1911.8	1945.4	1929.8	1826.4	1764.3	1666.0	1637.5
50°	1645.3	1668.6	1777.3	1834.1	1878.1	1911.8	1870.4	1792.8	1733.3	1632.4	1570.3
52.5°	1604.0	1647.9	1717.7	1792.8	1847.1	1888.5	1821.2	1772.1	1691.8	1585.8	1547.0
55°	1552.1	1578.1	1702.2	1779.8	1808.3	1836.7	1810.8	1730.7	1647.9	1539.3	1500.4
57.5°	1485.0	1544.4	1645.3	1754.0	1790.2	1805.7	1764.3	1699.7	1596.1	1500.4	1438.4
60°	1415.1	1477.1	1588.4	1676.4	1712.6	1769.5	1707.4	1668.6	1549.6	1443.5	1376.3
62.5°	1345.3	1415.1	1497.8	1609.1	1640.1	1663.4	1647.9	1593.6	1497.8	1378.8	1296.1
65°	1262.4	1314.1	1417.7	1474.6	1495.3	1549.6	1495.3	1474.6	1389.2	1275.4	1205.5
67.5°	1138.3	1182.3	1272.8	1327.1	1342.7	1366.0	1363.3	1340.0	1244.3	1166.7	1104.7
70°	996.0	1034.8	1091.7	1156.4	1164.1	1192.6	1166.7	1161.6	1099.4	993.4	959.7
72.5°	799.4	835.6	910.6	939.1	941.7	952.0	939.1	921.0	905.4	794.2	760.6
75°	613.1	633.8	670.0	695.9	695.9	708.8	701.1	683.0	641.6	571.7	538.1
77.5°	426.9	447.6	494.1	509.6	507.0	512.3	489.0	470.8	408.7	372.6	344.1
80°	310.4	323.4	346.7	357.0	359.6	367.3	338.9	323.4	287.1	245.7	232.8
82.5°	225.1	232.8	235.4	248.3	248.3	235.4	227.7	212.1	186.3	160.4	150.0
85°	93.1	95.7	98.3	113.8	116.4	139.7	129.3	121.6	106.1	90.6	82.8
87.5°	23.3	25.9	33.6	28.4	33.6	33.6	36.2	41.4	41.4	33.6	33.6
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°	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3
2.5°	7054.6	7075.3	7339.2	7372.9	7502.2	7634.2	7900.6	8092.0	8247.3	8348.1	8376.6
5°	5970.7	6102.6	6224.2	6420.9	6599.3	6852.9	7145.2	7507.4	7962.7	8195.5	8288.6
7.5°	4674.6	4829.9	5005.8	5197.2	5458.5	5913.8	6304.5	6723.5	7305.6	7546.2	7911.0
10°	3815.8	3989.1	4221.9	4369.4	4685.0	5119.6	5574.9	6058.6	6614.9	6961.5	7383.2
12.5°	3373.4	3515.7	3730.4	4040.8	4276.2	4558.2	4897.1	5507.6	6304.5	6633.0	6922.7
15°	2884.5	3042.2	3290.6	3634.7	3916.7	4252.9	4633.2	5298.1	6146.6	6653.7	6899.5
17.5°	2480.9	2594.7	2856.0	3153.5	3476.9	3844.2	4390.1	5287.8	6312.2	6961.5	7362.5
20°	2201.5	2217.0	2359.3	2612.8	3052.7	3531.2	4240.1	5236.0	6842.5	7491.9	7998.9
22.5°	2025.6	2010.1	2012.7	2227.4	2535.2	3223.4	4004.6	5411.9	7445.3	8335.2	8676.7
25°	1937.7	1896.3	1870.4	1917.0	2196.4	2858.6	3826.1	5644.8	8094.6	9031.1	9450.1
27.5°	1891.1	1818.7	1766.9	1774.7	1979.0	2674.9	3714.9	5745.6	8738.7	10001.3	10148.7
30°	1873.0	1782.4	1707.4	1681.5	1816.1	2418.8	3476.9	5919.0	9315.7	10534.1	10660.9
32.5°	1808.3	1697.1	1624.6	1601.3	1655.7	2193.7	3306.1	6043.2	9825.3	11113.6	11069.7
35°	1733.3	1640.1	1549.6	1505.6	1544.4	2048.8	3169.1	5983.6	10425.5	11563.8	11540.5
37.5°	1725.5	1604.0	1528.9	1456.4	1453.8	1870.4	2982.8	6040.6	10808.4	12370.9	12052.7
40°	1658.3	1580.7	1482.3	1422.8	1389.2	1779.8	2801.7	5906.0	11369.7	12696.8	12383.8
42.5°	1660.8	1544.4	1459.1	1389.2	1355.6	1647.9	2677.5	5869.8	11566.4	13227.2	12539.1
45°	1619.4	1505.6	1433.1	1350.4	1332.3	1547.0	2558.5	5701.6	11913.0	13253.1	12345.0
47.5°	1578.1	1477.1	1399.5	1301.3	1259.8	1510.8	2465.4	5562.0	11731.9	13009.8	12076.0
50°	1549.6	1433.1	1360.7	1290.9	1174.5	1448.7	2343.8	5528.3	11478.4	12681.3	11576.7
52.5°	1500.4	1397.0	1322.0	1267.6	1081.4	1391.8	2297.2	5724.9	11788.8	12435.5	11431.8
55°	1453.8	1347.8	1252.1	1146.0	1003.7	1241.7	2167.8	5908.6	12241.5	13002.1	12088.9
57.5°	1404.7	1303.8	1200.4	1073.6	928.7	1086.5	2033.4	5942.3	11393.0	12016.5	11475.8
60°	1340.0	1210.7	1133.1	967.5	848.5	900.3	1611.7	5238.6	8837.1	10034.8	10053.0
62.5°	1267.6	1127.9	1060.7	866.7	765.7	776.1	1314.1	4403.1	7168.5	8306.7	8800.9
65°	1171.9	1037.4	957.1	802.0	706.3	672.6	962.4	3225.9	5445.6	6739.0	7300.4
67.5°	1047.7	921.0	820.1	698.5	631.3	576.9	657.1	1816.1	3215.6	4524.6	4695.4
70°	915.8	807.1	701.1	600.1	525.1	486.4	481.1	804.6	1536.7	2434.4	2770.7
72.5°	721.7	644.1	558.8	483.7	434.6	377.7	344.1	333.7	520.0	990.8	1368.5
75°	517.4	452.7	403.6	354.4	318.2	287.1	261.3	238.0	217.3	248.3	341.4
77.5°	326.0	302.7	263.9	251.0	230.3	222.4	212.1	199.2	183.7	173.3	173.3
80°	219.9	204.4	191.4	188.9	181.1	178.5	181.1	168.1	152.6	139.7	144.9
82.5°	147.4	144.9	142.3	139.7	142.3	144.9	150.0	147.4	134.6	126.7	129.3
85°	88.0	93.1	98.3	103.4	113.8	100.9	82.8	69.9	62.1	56.9	54.3
87.5°	33.6	46.6	41.4	38.8	41.4	38.8	36.2	33.6	28.4	25.9	25.9
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: P652399

CATALOG NUMBER: GALN-SA5B-840-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3	7921.3
2.5°	8565.4	8617.2	8661.2	8650.8	8560.3	8438.7	8389.6	8138.6	8086.9	8053.2
5°	8681.9	8982.0	9046.6	9007.8	8772.4	8474.9	8185.2	7817.9	7603.1	7595.3
7.5°	8467.1	8837.1	8953.5	9041.4	8728.4	8211.0	7714.3	7163.3	7028.8	7039.2
10°	7921.3	8511.1	8798.3	8888.8	8529.3	8081.7	7393.6	6834.8	6547.6	6542.5
12.5°	7618.6	8081.7	8161.9	8288.6	8182.6	7729.9	7207.3	6581.2	6301.9	6296.7
15°	7349.6	7654.9	7678.1	7856.6	7913.6	7608.3	7256.5	6589.0	6363.9	6340.6
17.5°	7585.0	7372.9	7284.9	7308.2	7476.3	7587.6	7541.0	7028.8	6798.6	6669.2
20°	7742.8	7269.4	7002.9	7028.8	7228.0	7634.2	7965.3	7665.2	7300.4	7315.9
22.5°	8164.4	7284.9	6868.4	6839.9	7155.6	7877.3	8443.9	8469.7	8117.9	8032.6
25°	8795.7	7463.4	6827.0	6819.2	7121.9	8138.6	9002.7	9421.7	9062.1	8904.3
27.5°	9302.7	7742.8	6956.3	6982.2	7228.0	8350.7	9478.7	10034.8	9760.6	9566.6
30°	9747.7	8032.6	7137.5	7018.5	7512.6	8462.0	9683.0	10733.3	10513.4	10353.0
32.5°	9931.4	8443.9	7424.6	7228.0	7748.0	8596.4	10107.3	11411.1	11222.3	10826.4
35°	10241.8	8674.1	7579.8	7564.3	8159.3	8919.9	10306.5	11858.7	11781.1	11429.2
37.5°	10490.1	8906.9	8130.9	7960.1	8723.3	9463.1	10627.3	12476.9	12298.4	12132.9
40°	10681.6	9323.4	8645.6	8870.7	9416.6	9957.3	10922.2	12515.8	13030.5	12549.4
42.5°	10505.7	9696.0	9491.6	10029.7	10547.1	10521.2	10955.8	12815.8	13201.3	12950.4
45°	10461.7	10327.1	10829.1	11318.0	11437.0	10989.4	10715.2	12484.7	13149.5	13038.3
47.5°	10355.7	10948.1	11822.4	12619.2	12438.1	11302.5	10428.1	12425.2	13180.6	12981.4
50°	10319.4	11082.5	12557.1	13333.2	13224.6	11574.1	10293.5	12042.4	12960.7	12942.6
52.5°	10316.8	11359.4	12862.4	13721.3	13788.5	12003.5	10477.2	12236.4	13131.5	13284.1
55°	10433.3	11271.4	12823.6	13506.5	13480.7	11812.1	10498.0	12365.7	13341.0	13491.1
57.5°	9840.8	10097.0	10583.3	11124.0	10984.3	9783.9	9375.1	11431.8	12244.1	12135.5
60°	8498.2	7696.2	7147.8	7121.9	6850.3	6475.2	7672.9	10203.0	10203.0	10097.0
62.5°	7442.7	5052.3	4340.9	4139.1	4333.2	4765.2	7401.3	9923.6	9641.6	9520.0
65°	6508.8	3857.2	3138.0	3081.1	3417.4	4069.3	6692.5	8454.2	7957.5	7553.9
67.5°	4188.3	2825.0	2333.4	2232.5	2638.7	2988.0	4454.8	5199.8	4886.8	4728.9
70°	2700.8	1839.4	1298.7	1218.4	1376.3	1842.0	2845.7	3031.9	2576.7	2470.5
72.5°	1278.0	794.2	455.3	375.1	421.7	703.7	1125.3	1210.7	1006.3	921.0
75°	406.1	292.3	186.3	160.4	152.6	181.1	258.7	199.2	144.9	142.3
77.5°	181.1	173.3	147.4	124.2	108.7	90.6	75.0	62.1	64.7	67.3
80°	150.0	137.1	121.6	108.7	90.6	69.9	54.3	41.4	41.4	44.0
82.5°	132.0	119.0	106.1	90.6	77.6	56.9	41.4	28.4	25.9	25.9
85°	56.9	67.3	72.4	77.6	62.1	46.6	28.4	18.1	15.6	15.6
87.5°	23.3	20.7	18.1	15.6	13.0	13.0	10.3	7.7	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)