

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: P648331

Luminaire Tested: **GALN-SA3B-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11464.7 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 121
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

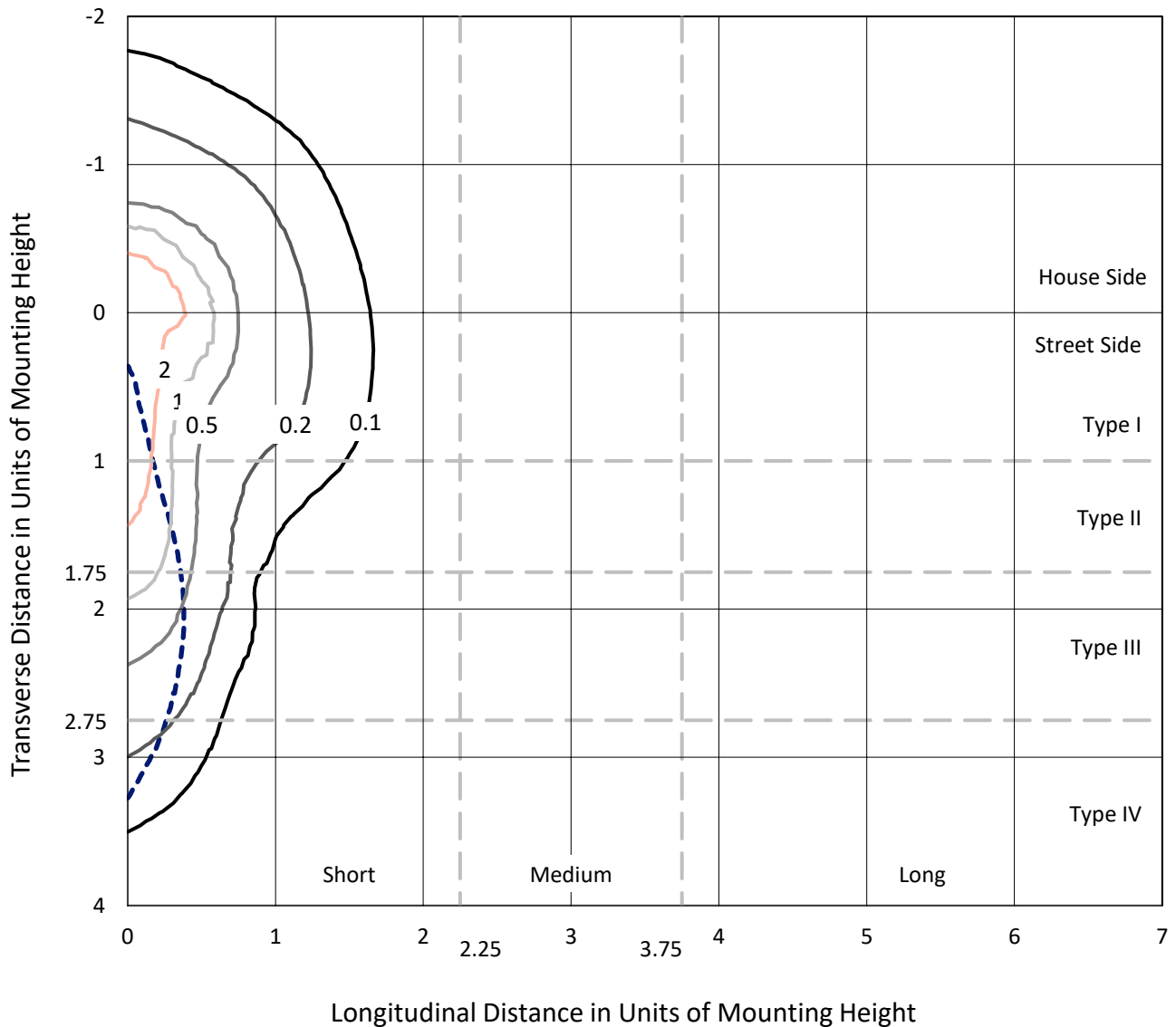




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Iso-Footcandle Lines of Horizontal Illumination

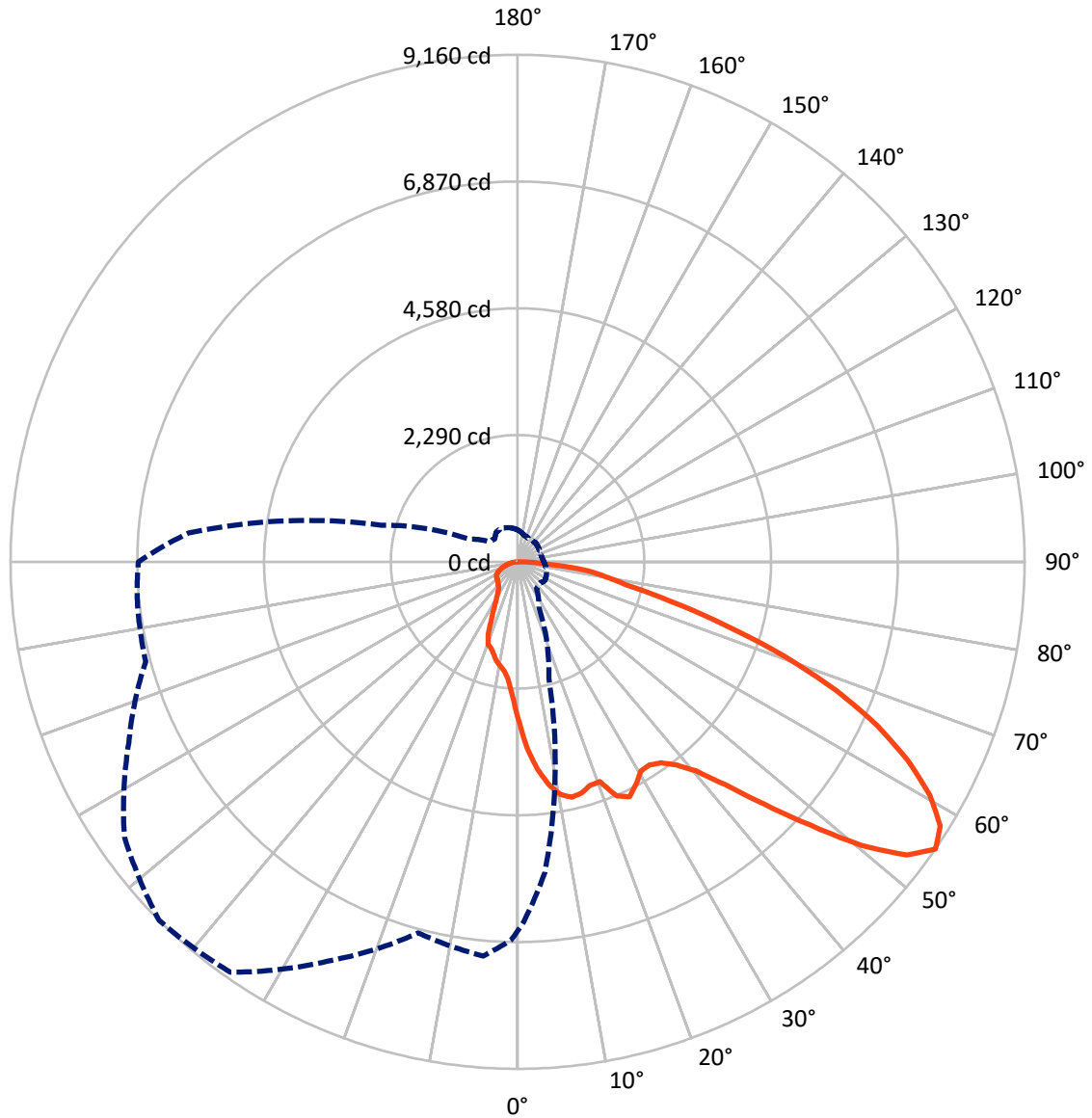
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2507.8	0.0	2507.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8956.8	0.0	8956.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	11464.7	0.0	11464.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.9	2.1
10°-20°	646.9	5.6
20°-30°	1117.6	9.7
30°-40°	1298.9	11.3
40°-50°	1812.2	15.8
50°-60°	2458.9	21.4
60°-70°	2339.3	20.4
70°-80°	1263.8	11.0
80°-90°	283.2	2.5
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°	11464.7	100.0
0°-180°	11464.7	100.0

Coefficient of Utilization



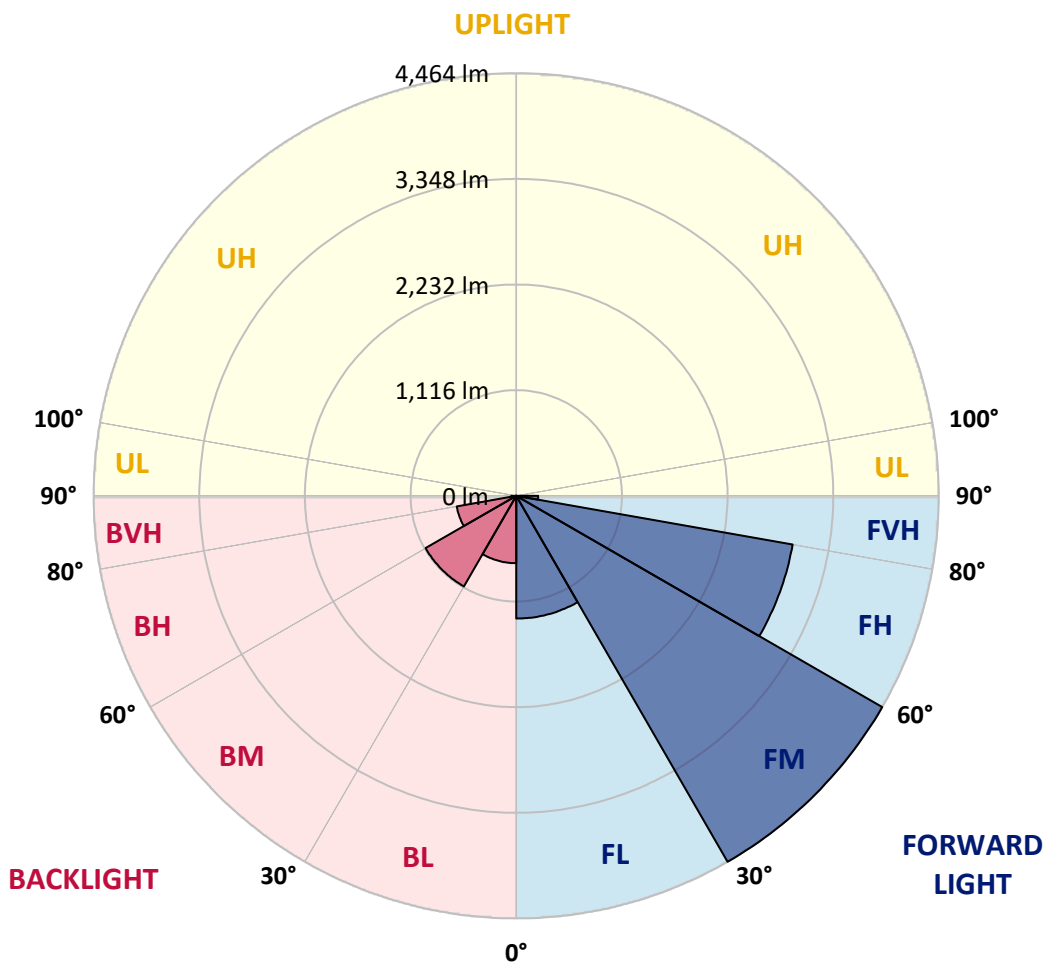
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1296.7	11.3			
FM (30°-60°)	4464.1	38.9			
FH (60°-80°)	2964.6	25.9			G2/5000
FVH (80°-90°)	231.5	2.0			G3/500
BL (0°-30°)	711.7	6.2	B2/1000		
BM (30°-60°)	1105.8	9.6	B2/2500		
BH (60°-80°)	638.6	5.6	B2/1000		G2/1000
BVH (80°-90°)	51.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2
2.5°	3196.4	3184.3	3150.2	3061.0	2971.0	2879.5	2809.1	2721.4	2629.9	2580.7	2517.9
5°	3240.2	3226.7	3146.5	2945.3	2763.0	2571.6	2418.8	2285.0	2230.5	2150.4	2086.1
7.5°	3137.4	3131.3	3011.0	2722.1	2472.6	2222.2	2049.0	1941.6	1844.0	1807.7	1815.2
10°	3043.6	3019.4	2868.8	2491.4	2200.2	1996.8	1872.8	1767.6	1698.8	1680.6	1684.4
12.5°	2965.7	2933.2	2755.4	2336.4	2081.5	1918.9	1760.8	1651.1	1588.3	1605.8	1664.7
15°	2949.8	2905.9	2707.8	2283.5	2016.5	1806.9	1633.7	1507.4	1460.5	1498.3	1592.9
17.5°	3052.7	2997.5	2789.4	2300.8	1954.4	1692.8	1480.2	1335.7	1296.4	1356.9	1480.2
20°	3383.2	3301.5	3044.4	2401.5	1948.4	1636.0	1390.9	1245.8	1262.4	1377.3	1505.9
22.5°	3994.3	3871.8	3490.6	2548.2	1980.1	1621.7	1372.8	1297.1	1388.7	1486.2	1570.9
25°	4115.4	4019.3	3570.8	2581.5	1973.3	1611.8	1424.2	1462.0	1564.1	1612.6	1583.1
27.5°	4183.4	4073.7	3565.5	2416.6	1764.6	1462.0	1361.5	1424.2	1450.0	1403.1	1322.9
30°	4342.3	4228.0	3655.5	2243.4	1452.9	1084.6	950.7	925.0	942.4	951.5	922.8
32.5°	4560.8	4448.1	3824.9	2129.9	1256.3	897.0	765.5	729.1	720.8	711.0	699.6
35°	4843.7	4670.5	3991.3	2057.3	1175.4	829.7	708.7	680.7	669.4	655.8	643.6
37.5°	5131.2	4949.6	4201.6	1980.9	1121.6	782.8	670.9	658.0	638.4	624.0	606.6
40°	5436.7	5233.3	4392.9	1914.4	1069.5	752.5	643.6	642.1	616.5	599.8	579.3
42.5°	5701.4	5491.9	4563.9	1873.5	1029.4	720.8	627.0	631.6	605.1	580.1	553.7
45°	5911.7	5706.0	4722.0	1873.5	996.9	689.0	624.0	621.0	594.5	563.5	533.2
47.5°	6096.3	5883.7	4876.2	1921.2	976.5	662.6	607.4	612.6	585.4	546.1	516.6
50°	6239.2	6051.7	5084.3	1995.2	956.0	641.4	586.2	614.9	577.9	537.0	503.0
52.5°	6421.5	6253.6	5334.6	2096.6	938.7	617.9	567.3	614.9	577.1	537.8	500.7
55°	6674.1	6497.1	5636.3	2180.6	910.6	596.0	550.6	597.5	574.8	534.0	494.6
57.5°	6851.1	6718.8	5849.7	2236.6	870.5	568.0	535.5	580.9	565.0	519.6	476.5
58°	6859.4	6730.0	5880.7	2249.4	860.8	562.7	531.7	573.3	560.5	513.6	470.4
60°	6764.1	6652.9	5886.8	2231.2	804.8	536.3	512.1	542.3	536.3	478.0	437.9
62.5°	6417.7	6298.9	5642.5	2083.8	730.6	503.7	481.8	500.7	487.1	428.1	391.0
65°	5925.4	5706.7	5140.2	1852.3	677.7	468.9	441.0	442.5	428.1	385.7	353.2
67.5°	5269.5	5025.2	4352.1	1561.1	637.6	430.3	392.5	388.8	371.4	344.1	317.7
70°	4462.6	4295.4	3536.7	1269.9	593.0	388.0	338.1	335.8	325.3	304.8	281.3
72.5°	3616.9	3404.4	2856.0	1016.6	538.5	347.2	287.4	292.0	278.4	263.9	242.8
75°	2669.2	2530.0	2207.8	815.3	465.2	302.6	239.8	241.2	235.2	220.1	203.4
77.5°	1757.8	1716.2	1579.3	535.5	357.8	240.5	195.9	197.4	192.9	179.2	161.8
80°	1183.0	1154.9	1070.3	344.9	239.0	174.0	151.3	152.8	152.1	137.7	114.2
82.5°	729.1	717.0	689.8	232.9	165.6	124.8	99.8	104.4	112.7	96.8	77.9
85°	344.1	344.9	416.8	127.1	97.6	80.2	54.5	58.3	58.3	58.3	43.8
87.5°	44.6	46.9	57.5	53.7	35.5	30.2	19.7	16.7	14.4	18.9	13.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2
2.5°	2496.0	2480.9	2448.4	2440.8	2436.2	2449.1	2415.1	2424.2	2409.0	2451.3	2444.5
5°	2089.8	2091.3	2117.8	2135.2	2141.3	2135.2	2112.5	2073.1	2042.9	2030.8	2033.8
7.5°	1800.9	1827.4	1872.8	1923.4	1969.6	1983.2	1970.3	1895.4	1813.7	1762.3	1745.7
10°	1704.8	1740.4	1792.6	1832.7	1873.5	1906.1	1912.9	1854.6	1757.8	1636.0	1588.3
12.5°	1710.2	1758.5	1808.4	1821.3	1817.5	1830.4	1824.3	1814.5	1750.9	1595.9	1516.5
15°	1660.2	1717.7	1752.5	1745.7	1733.6	1722.2	1706.3	1681.4	1658.7	1549.8	1462.0
17.5°	1545.3	1604.2	1632.9	1635.2	1635.2	1632.2	1593.6	1584.6	1581.6	1528.6	1474.9
20°	1566.4	1599.0	1586.1	1564.9	1570.9	1591.4	1568.7	1564.1	1581.6	1605.0	1595.1
22.5°	1578.5	1567.2	1470.4	1376.6	1355.4	1419.0	1431.8	1482.5	1552.8	1637.5	1692.8
25°	1503.7	1412.1	1238.9	1133.0	1073.3	1132.3	1209.4	1303.2	1408.3	1517.2	1581.6
27.5°	1257.1	1187.5	1063.5	968.1	916.0	925.0	990.8	1076.3	1173.9	1247.2	1294.1
30°	947.0	916.0	851.7	819.2	787.4	779.8	807.8	840.3	883.5	892.5	904.6
32.5°	697.3	692.8	696.6	686.0	680.0	679.2	670.9	678.5	683.0	688.3	677.7
35°	630.8	624.8	614.2	611.1	607.4	608.9	605.1	601.3	604.3	608.9	611.9
37.5°	596.8	587.7	572.5	567.3	567.3	569.6	563.5	562.0	567.3	581.6	589.2
40°	570.3	559.7	542.3	535.5	540.0	546.1	537.8	534.7	547.6	562.7	574.8
42.5°	545.4	537.0	520.4	512.8	516.6	528.0	515.8	513.6	530.2	546.8	561.3
45°	524.1	515.8	500.7	496.9	498.5	509.0	500.7	500.7	516.6	534.7	547.6
47.5°	507.5	496.9	487.1	484.1	485.6	491.6	490.2	490.2	505.3	524.1	537.0
50°	490.9	481.8	468.9	470.4	474.3	482.6	481.8	484.1	499.2	522.7	536.3
52.5°	483.3	469.7	455.3	456.8	468.2	478.0	475.0	477.2	494.6	538.5	558.2
55°	475.0	456.8	440.2	442.5	455.3	469.7	465.9	468.9	489.4	549.1	576.4
57.5°	459.1	437.9	419.8	421.3	440.2	455.3	449.3	453.0	477.2	537.8	566.5
58°	452.3	434.2	416.8	417.5	435.7	452.3	445.5	448.5	473.5	534.7	562.0
60°	423.5	413.0	397.8	398.6	416.0	430.3	426.6	429.6	453.8	512.8	533.2
62.5°	384.2	378.2	374.4	374.4	385.0	398.6	402.4	406.1	428.1	463.6	481.8
65°	341.9	341.9	342.6	342.6	349.5	366.8	369.1	379.0	399.3	416.8	430.3
67.5°	313.1	311.6	313.1	309.4	312.3	323.0	334.3	343.4	364.6	376.7	381.2
70°	276.1	275.3	276.1	270.8	274.5	283.6	291.2	306.3	328.2	337.3	339.6
72.5°	239.8	239.8	241.2	237.5	237.5	247.3	252.6	269.3	289.7	295.0	295.7
75°	201.9	204.2	204.2	199.0	200.4	206.5	213.3	226.9	245.8	249.6	249.6
77.5°	160.4	168.7	168.7	163.4	165.6	166.4	175.5	182.3	196.7	198.2	192.1
80°	116.5	124.8	131.6	127.1	130.8	126.3	131.6	136.2	150.5	143.7	133.9
82.5°	83.2	89.3	94.5	95.3	91.5	83.2	90.0	90.7	97.6	88.5	83.2
85°	46.1	51.4	58.3	55.2	49.2	43.8	46.1	47.7	46.9	44.6	41.6
87.5°	12.1	12.8	14.4	10.6	9.9	8.3	11.4	11.4	12.8	13.6	12.8
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°	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2
2.5°	2449.9	2483.1	2555.0	2609.4	2676.0	2756.9	2852.2	2948.3	3051.9	3084.4	3129.8
5°	2027.0	2110.3	2145.0	2244.1	2342.4	2489.9	2647.2	2829.5	3029.2	3125.3	3217.6
7.5°	1732.1	1776.7	1813.0	1885.6	2003.6	2182.8	2380.2	2607.9	2890.8	3030.8	3166.1
10°	1573.2	1577.7	1622.4	1712.4	1815.2	1973.3	2160.1	2415.1	2730.5	2900.6	3059.5
12.5°	1468.1	1448.4	1496.9	1590.6	1707.1	1853.0	2024.8	2267.6	2614.8	2789.4	2981.6
15°	1375.8	1344.8	1381.1	1477.1	1592.2	1763.9	1948.4	2205.6	2569.3	2772.8	2986.1
17.5°	1378.1	1292.7	1305.5	1386.4	1500.6	1675.3	1899.2	2203.3	2638.2	2872.7	3125.3
20°	1548.3	1411.4	1353.1	1368.2	1478.7	1669.3	1921.9	2309.1	2864.3	3206.2	3476.2
22.5°	1715.4	1632.9	1539.2	1508.2	1568.7	1768.4	2066.3	2559.5	3355.9	3871.1	4358.9
25°	1657.2	1727.5	1704.0	1660.2	1673.8	1839.5	2164.7	2765.2	3737.9	4318.1	4776.4
27.5°	1325.9	1453.7	1479.4	1478.7	1483.9	1620.1	1946.9	2626.8	3785.6	4403.5	4841.4
30°	931.8	943.2	956.8	983.3	1007.5	1129.2	1523.3	2306.2	3764.4	4442.1	4880.8
32.5°	672.4	687.6	706.4	742.8	800.2	955.3	1332.7	2204.1	3876.3	4601.7	4995.8
35°	614.9	632.4	650.4	692.1	746.5	890.3	1257.1	2161.7	4060.2	4860.4	5202.3
37.5°	596.8	616.5	632.4	662.6	706.4	843.4	1188.2	2133.0	4248.5	5134.1	5479.0
40°	583.9	606.6	619.4	643.6	673.9	800.2	1127.0	2110.3	4430.8	5384.5	5701.4
42.5°	572.5	596.0	612.6	630.1	655.0	761.6	1072.6	2087.6	4588.8	5627.3	5923.1
45°	559.0	588.4	609.6	623.3	645.2	729.1	1030.9	2069.4	4768.9	5842.9	6146.9
47.5°	547.6	580.1	606.6	622.5	630.8	706.4	997.6	2094.4	4985.1	6068.2	6354.9
50°	548.3	579.3	612.6	637.6	615.7	687.6	977.2	2193.4	5266.5	6336.0	6519.0
52.5°	572.5	610.3	636.9	642.9	594.5	664.8	966.6	2366.6	5599.3	6572.7	6684.7
55°	599.8	639.1	667.9	664.1	583.2	636.1	964.3	2551.2	5963.9	6848.8	6900.3
57.5°	590.0	647.5	691.3	671.7	583.9	608.1	954.6	2700.2	6268.7	7055.3	7113.6
58°	586.9	644.4	694.4	670.2	581.6	599.8	952.3	2713.1	6311.1	7069.7	7143.8
60°	557.4	617.9	692.1	658.8	568.8	577.1	927.3	2754.7	6299.7	6995.6	7161.9
62.5°	503.7	553.7	639.9	603.5	529.5	546.8	871.3	2703.2	5992.6	6638.6	6896.5
65°	443.3	480.3	537.8	531.0	473.5	515.8	794.9	2499.7	5377.7	6059.2	6330.7
67.5°	397.8	428.1	464.4	454.6	425.8	474.3	712.5	2155.6	4687.9	5363.3	5705.3
70°	351.7	375.1	393.3	386.5	377.4	433.4	639.1	1749.5	4026.9	4702.3	5033.6
72.5°	304.8	326.7	341.9	332.1	326.7	390.2	579.3	1357.6	3180.5	3879.4	4305.2
75°	254.9	276.8	287.4	276.1	273.0	344.1	490.9	1014.3	2386.3	2990.7	3358.2
77.5°	197.4	220.9	234.5	230.7	232.2	282.9	396.4	694.4	1706.3	2038.4	2425.7
80°	138.4	164.1	173.2	169.4	180.0	215.6	279.8	441.0	1176.9	1322.9	1595.9
82.5°	85.5	109.7	111.2	114.9	122.5	159.6	211.0	268.5	739.0	763.9	962.1
85°	43.1	52.2	56.0	62.0	68.8	97.6	120.3	166.4	475.8	360.0	537.8
87.5°	14.4	15.1	18.2	22.7	28.0	40.1	51.4	68.0	118.0	65.1	166.4
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: P648331

CATALOG NUMBER: GALN-SA3B-835-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2
2.5°	3221.3	3285.6	3332.5	3375.6	3334.0	3330.3	3289.4	3223.6	3196.4	3196.4
5°	3411.1	3561.7	3683.5	3761.4	3728.1	3647.9	3515.6	3346.9	3256.1	3240.2
7.5°	3463.4	3760.6	3986.8	4066.9	4011.0	3834.0	3580.6	3296.2	3166.1	3137.4
10°	3431.6	3818.1	4150.1	4277.2	4199.3	3931.5	3585.9	3237.2	3076.9	3043.6
12.5°	3398.3	3825.7	4180.4	4364.2	4313.5	4010.2	3624.5	3198.6	3013.3	2965.7
15°	3422.5	3828.7	4143.3	4333.2	4365.7	4104.7	3688.0	3226.7	3000.5	2949.8
17.5°	3575.3	3886.2	4090.4	4243.9	4358.1	4233.4	3868.8	3360.5	3115.5	3052.7
20°	3894.5	4023.8	4120.6	4239.4	4423.2	4495.8	4238.6	3728.1	3438.4	3383.2
22.5°	4818.7	4795.3	4597.1	4594.9	4861.1	5152.3	5134.9	4475.4	4039.7	3994.3
25°	5165.1	5056.2	4769.6	4700.0	4817.3	5266.5	5201.5	4628.2	4225.8	4115.4
27.5°	5029.8	4759.8	4571.5	4555.6	4517.0	4941.3	5097.9	4690.2	4290.8	4183.4
30°	5021.5	4624.4	4355.1	4386.9	4424.0	4829.4	5155.4	4884.6	4457.2	4342.3
32.5°	5041.9	4643.3	4371.0	4377.0	4487.5	4846.0	5218.9	5096.3	4675.8	4560.8
35°	5124.3	4750.7	4472.3	4458.0	4630.4	4954.9	5327.1	5429.2	4974.6	4843.7
37.5°	5257.5	4964.8	4657.7	4653.8	4904.2	5151.6	5461.7	5765.0	5271.8	5131.2
40°	5453.4	5215.1	4987.4	4967.0	5276.3	5471.5	5636.3	6122.7	5617.5	5436.7
42.5°	5690.1	5515.4	5422.4	5503.2	5800.5	5830.8	5908.7	6453.3	5911.7	5701.4
45°	5909.5	5901.1	6030.4	6245.3	6418.5	6236.9	6193.1	6674.8	6140.1	5911.7
47.5°	6170.4	6395.8	6786.0	7100.7	7282.2	6709.7	6435.9	6819.3	6306.5	6096.3
50°	6435.1	6988.0	7611.2	8049.9	8088.5	7223.3	6603.0	6955.5	6457.8	6239.2
52.5°	6713.4	7460.7	8290.5	8800.2	8725.4	7670.3	6764.9	7047.8	6613.6	6421.5
55°	6955.5	7750.4	8670.2	9159.5	9049.8	7942.5	6939.6	7147.6	6836.0	6674.1
57.5°	7090.8	7774.6	8575.6	9002.9	8884.2	7889.6	7019.8	7221.7	6978.2	6851.1
58°	7110.5	7742.1	8491.6	8912.2	8791.1	7845.0	7019.0	7218.7	6987.3	6859.4
60°	7093.1	7531.1	8179.3	8553.6	8426.6	7565.1	6990.2	7161.9	6872.3	6764.1
62.5°	6932.1	7165.0	7640.0	7912.3	7876.0	7128.0	6872.3	6947.9	6522.1	6417.7
65°	6720.3	6665.8	6949.4	7142.3	7169.5	6800.4	6755.0	6485.0	6072.8	5925.4
67.5°	6463.1	6100.0	6099.3	6209.0	6254.3	6296.7	6510.7	5982.0	5425.3	5269.5
70°	6026.7	5227.9	4987.4	5116.7	5078.9	5436.7	6074.3	5275.6	4644.8	4462.6
72.5°	5226.4	4148.6	3763.6	3930.0	3834.7	4263.6	5314.9	4341.5	3840.8	3616.9
75°	4236.3	3103.3	2706.3	2859.0	2800.0	3234.2	4422.5	3153.3	2754.7	2669.2
77.5°	3289.4	2248.6	2017.9	1996.8	2040.7	2406.7	3244.0	2129.1	1816.0	1757.8
80°	2113.2	1609.5	1623.2	1595.9	1618.6	1517.2	1969.6	1358.4	1229.9	1183.0
82.5°	1390.9	1121.6	1337.2	1234.4	1172.4	1020.3	1291.9	889.5	754.8	729.1
85°	947.7	825.9	751.8	574.8	676.9	785.8	968.9	478.8	379.7	344.1
87.5°	428.1	287.4	211.0	130.1	205.7	237.5	470.4	56.0	43.1	44.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)