

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: P453134

Luminaire Tested: **GALN-SA4A-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453134
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-SA4A-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA 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: 11463 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

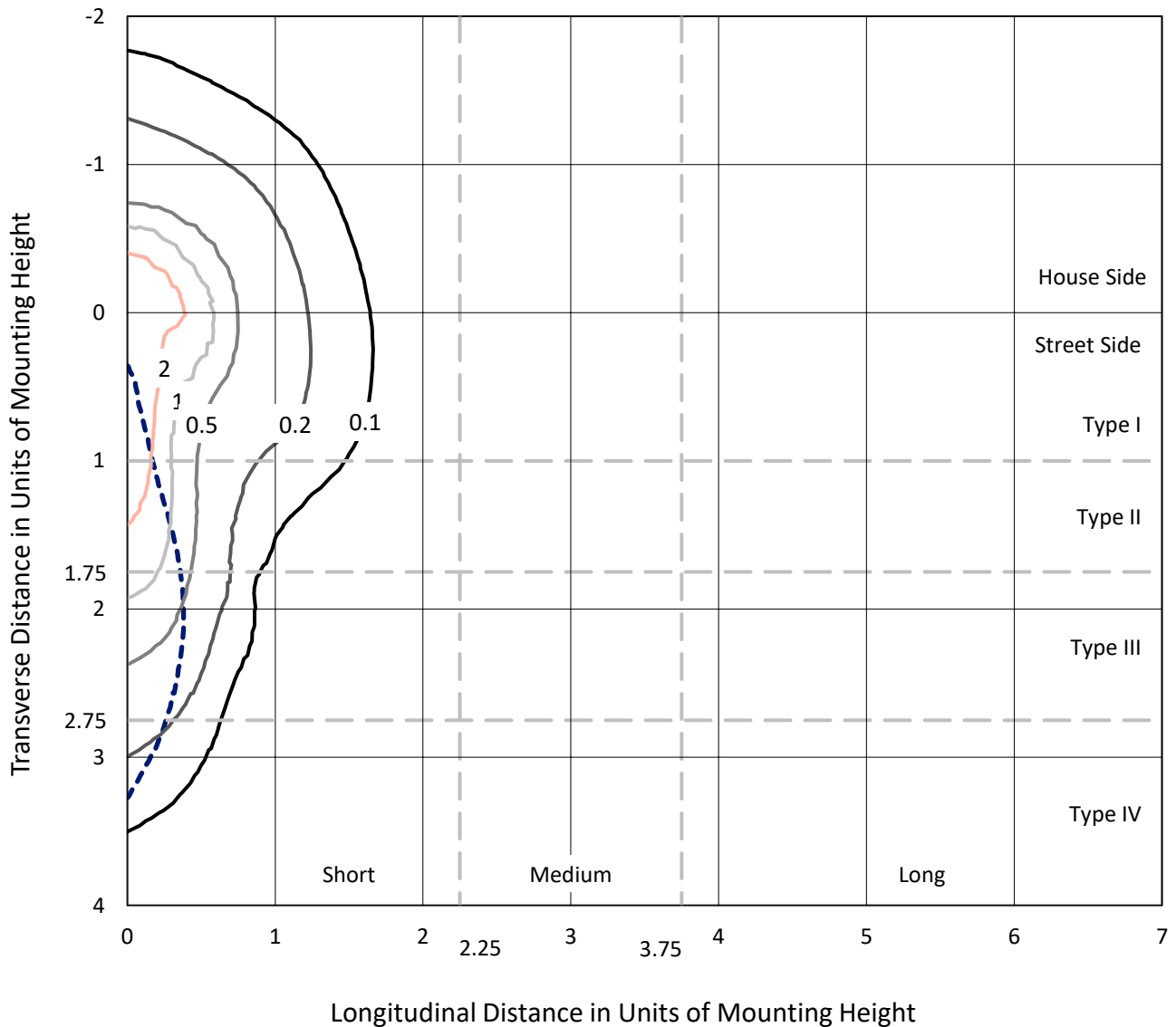
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

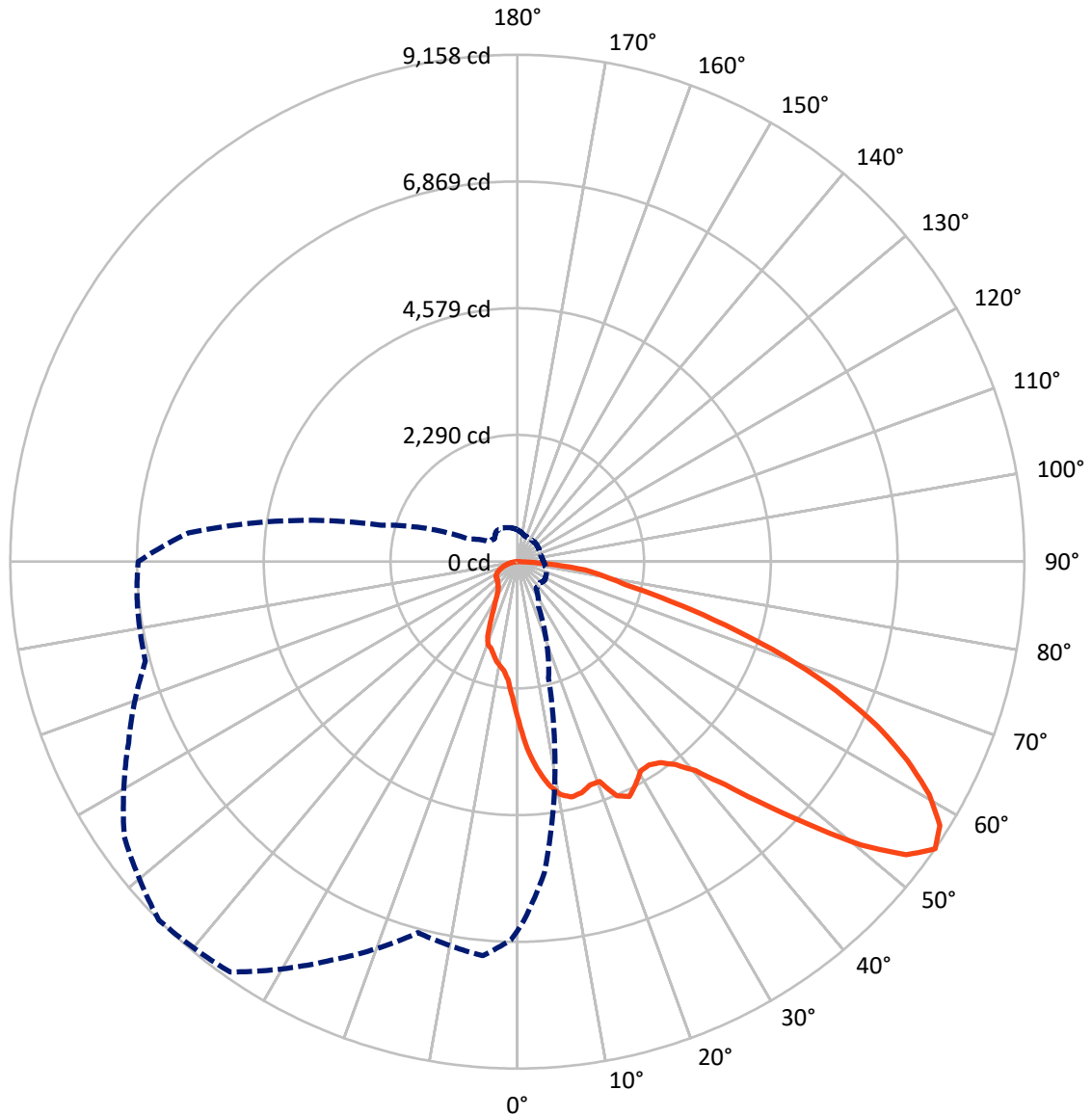
× Max cd
 - - - 1/2 Max cd



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	2507.5	0.0	2507.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8955.5	0.0	8955.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	11463.0	0.0	11463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	2.1
10°-20°	646.8	5.6
20°-30°	1117.5	9.7
30°-40°	1298.7	11.3
40°-50°	1811.9	15.8
50°-60°	2458.5	21.4
60°-70°	2339.0	20.4
70°-80°	1263.6	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°	11463.0	100.0
0°-180°	11463.0	100.0

Coefficient of Utilization



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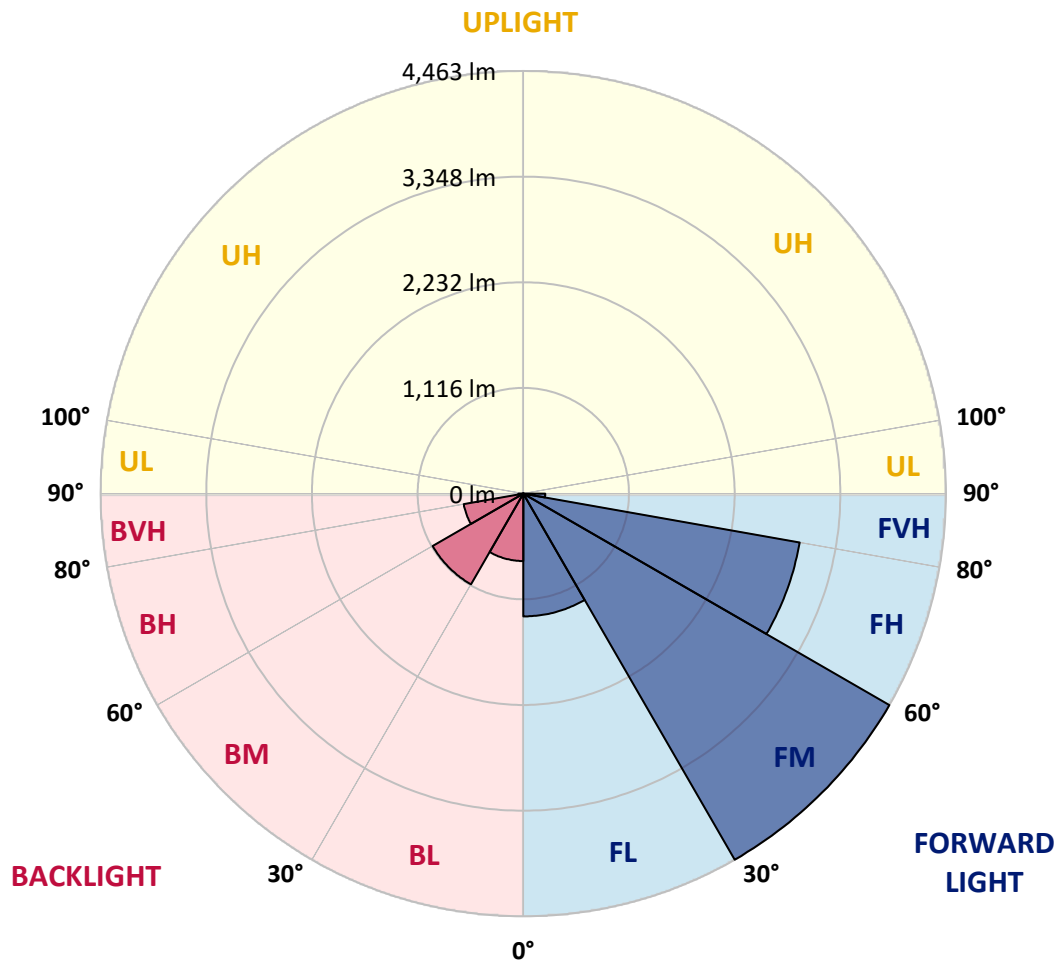
CATALOG NUMBER: GALN-SA4A-827-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1296.5	11.3			
FM	(30°-60°)	4463.5	38.9			
FH	(60°-80°)	2964.1	25.9			G2/5000
FVH	(80°-90°)	231.4	2.0			G3/500
BL	(0°-30°)	711.6	6.2	B2/1000		
BM	(30°-60°)	1105.6	9.6	B2/2500		
BH	(60°-80°)	638.5	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°	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8
2.5°	3195.9	3183.8	3149.8	3060.5	2970.5	2879.0	2808.7	2721.0	2629.5	2580.3	2517.5
5°	3239.8	3226.2	3146.0	2944.8	2762.6	2571.2	2418.5	2284.6	2230.2	2150.0	2085.7
7.5°	3136.9	3130.9	3010.6	2721.7	2472.2	2221.9	2048.7	1941.3	1843.7	1807.4	1815.0
10°	3043.1	3018.9	2868.4	2491.1	2199.9	1996.5	1872.5	1767.4	1698.5	1680.4	1684.2
12.5°	2965.2	2932.7	2755.0	2336.0	2081.2	1918.6	1760.5	1650.9	1588.1	1605.5	1664.5
15°	2949.4	2905.5	2707.4	2283.1	2016.2	1806.7	1633.5	1507.2	1460.3	1498.1	1592.7
17.5°	3052.2	2997.0	2789.0	2300.5	1954.1	1692.5	1480.0	1335.5	1296.2	1356.7	1480.0
20°	3382.7	3301.0	3043.9	2401.1	1948.1	1635.8	1390.7	1245.5	1262.2	1377.1	1505.7
22.5°	3993.7	3871.2	3490.1	2547.8	1979.9	1621.4	1372.6	1297.0	1388.5	1486.0	1570.7
25°	4114.7	4018.7	3570.2	2581.1	1973.0	1611.6	1424.0	1461.8	1563.9	1612.3	1582.8
27.5°	4182.8	4073.1	3565.0	2416.2	1764.3	1461.8	1361.2	1424.0	1449.7	1402.8	1322.7
30°	4341.6	4227.4	3654.9	2243.0	1452.8	1084.5	950.6	924.9	942.3	951.4	922.6
32.5°	4560.2	4447.5	3824.3	2129.6	1256.1	896.9	765.3	729.0	720.7	710.9	699.5
35°	4843.0	4669.8	3990.7	2057.0	1175.2	829.6	708.6	680.6	669.3	655.7	643.6
37.5°	5130.4	4948.9	4201.0	1980.6	1121.5	782.7	670.8	657.9	638.3	623.9	606.5
40°	5435.9	5232.5	4392.3	1914.1	1069.3	752.5	643.6	642.1	616.3	599.7	579.3
42.5°	5700.6	5491.1	4563.2	1873.2	1029.3	720.7	626.9	631.5	605.0	580.0	553.6
45°	5910.8	5705.1	4721.3	1873.2	996.7	688.9	623.9	620.9	594.4	563.4	533.2
47.5°	6095.4	5882.8	4875.5	1920.9	976.3	662.5	607.3	612.6	585.3	546.0	516.5
50°	6238.3	6050.7	5083.5	1995.0	955.9	641.3	586.1	614.8	577.8	536.9	502.9
52.5°	6420.5	6252.7	5333.8	2096.3	938.5	617.9	567.2	614.8	577.0	537.7	500.6
55°	6673.1	6496.2	5635.6	2180.3	910.5	595.9	550.5	597.4	574.7	533.9	494.6
57.5°	6850.1	6717.7	5848.8	2236.2	870.4	567.9	535.4	580.8	564.9	519.5	476.4
58°	6858.4	6729.1	5879.8	2249.1	860.6	562.6	531.6	573.2	560.4	513.5	470.4
60°	6763.1	6652.0	5885.9	2230.9	804.6	536.2	512.0	542.2	536.2	477.9	437.9
62.5°	6416.8	6298.0	5641.6	2083.5	730.5	503.7	481.7	500.6	487.0	428.0	391.0
65°	5924.4	5705.9	5139.5	1852.0	677.6	468.9	440.9	442.4	428.0	385.7	353.2
67.5°	5268.8	5024.5	4351.4	1560.9	637.5	430.3	392.5	388.7	371.3	344.1	317.6
70°	4461.9	4294.7	3536.2	1269.7	592.9	388.0	338.0	335.8	325.2	304.8	281.3
72.5°	3616.4	3403.9	2855.6	1016.4	538.4	347.1	287.4	291.9	278.3	263.9	242.8
75°	2668.8	2529.6	2207.5	815.2	465.1	302.5	239.7	241.2	235.2	220.1	203.4
77.5°	1757.5	1715.9	1579.0	535.4	357.7	240.5	195.9	197.4	192.8	179.2	161.8
80°	1182.8	1154.8	1070.1	344.8	239.0	173.9	151.2	152.8	152.0	137.6	114.2
82.5°	729.0	716.9	689.7	232.9	165.6	124.8	99.8	104.4	112.7	96.8	77.9
85°	344.1	344.8	416.7	127.0	97.6	80.2	54.4	58.2	58.2	58.2	43.9
87.5°	44.6	46.9	57.5	53.7	35.5	30.2	19.7	16.6	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°	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8
2.5°	2495.6	2480.5	2448.0	2440.4	2435.9	2448.7	2414.7	2423.8	2408.6	2451.0	2444.2
5°	2089.5	2091.0	2117.5	2134.9	2140.9	2134.9	2112.2	2072.9	2042.6	2030.5	2033.5
7.5°	1800.6	1827.1	1872.5	1923.1	1969.3	1982.9	1970.0	1895.2	1813.5	1762.1	1745.4
10°	1704.6	1740.1	1792.3	1832.4	1873.2	1905.7	1912.5	1854.3	1757.5	1635.8	1588.1
12.5°	1709.9	1758.3	1808.2	1821.0	1817.3	1830.1	1824.1	1814.2	1750.7	1595.7	1516.3
15°	1660.0	1717.4	1752.2	1745.4	1733.3	1722.0	1706.1	1681.1	1658.5	1549.6	1461.8
17.5°	1545.0	1604.0	1632.7	1635.0	1635.0	1632.0	1593.4	1584.3	1581.3	1528.4	1474.7
20°	1566.2	1598.7	1585.9	1564.7	1570.7	1591.1	1568.5	1563.9	1581.3	1604.8	1594.9
22.5°	1578.3	1566.9	1470.1	1376.4	1355.2	1418.7	1431.6	1482.2	1552.6	1637.3	1692.5
25°	1503.4	1411.9	1238.7	1132.9	1073.1	1132.1	1209.2	1303.0	1408.1	1517.0	1581.3
27.5°	1256.9	1187.3	1063.3	968.0	915.8	924.9	990.7	1076.1	1173.7	1247.1	1293.9
30°	946.8	915.8	851.5	819.0	787.3	779.7	807.7	840.2	883.3	892.4	904.5
32.5°	697.3	692.7	696.5	685.9	679.9	679.1	670.8	678.4	682.9	688.2	677.6
35°	630.7	624.7	614.1	611.0	607.3	608.8	605.0	601.2	604.2	608.8	611.8
37.5°	596.7	587.6	572.5	567.2	567.2	569.5	563.4	561.9	567.2	581.6	589.1
40°	570.2	559.6	542.2	535.4	540.0	546.0	537.7	534.7	547.5	562.6	574.7
42.5°	545.3	536.9	520.3	512.7	516.5	527.9	515.8	513.5	530.1	546.8	561.1
45°	524.1	515.8	500.6	496.9	498.4	509.0	500.6	500.6	516.5	534.7	547.5
47.5°	507.4	496.9	487.0	484.0	485.5	491.6	490.0	490.0	505.2	524.1	536.9
50°	490.8	481.7	468.9	470.4	474.2	482.5	481.7	484.0	499.1	522.6	536.2
52.5°	483.2	469.6	455.3	456.8	468.1	477.9	474.9	477.2	494.6	538.4	558.1
55°	474.9	456.8	440.1	442.4	455.3	469.6	465.8	468.9	489.3	549.0	576.3
57.5°	459.0	437.9	419.7	421.2	440.1	455.3	449.2	453.0	477.2	537.7	566.4
58°	452.2	434.1	416.7	417.4	435.6	452.2	445.4	448.5	473.4	534.7	561.9
60°	423.5	412.9	397.8	398.5	415.9	430.3	426.5	429.5	453.7	512.7	533.2
62.5°	384.2	378.1	374.3	374.3	384.9	398.5	402.3	406.1	428.0	463.6	481.7
65°	341.8	341.8	342.6	342.6	349.4	366.8	369.0	378.9	399.3	416.7	430.3
67.5°	313.1	311.6	313.1	309.3	312.3	322.9	334.3	343.3	364.5	376.6	381.1
70°	276.0	275.3	276.0	270.7	274.5	283.6	291.2	306.3	328.2	337.3	339.6
72.5°	239.7	239.7	241.2	237.5	237.5	247.3	252.6	269.2	289.6	294.9	295.7
75°	201.9	204.2	204.2	198.9	200.4	206.5	213.3	226.9	245.8	249.6	249.6
77.5°	160.3	168.6	168.6	163.3	165.6	166.4	175.4	182.3	196.6	198.1	192.1
80°	116.5	124.8	131.6	127.0	130.8	126.3	131.6	136.1	150.5	143.7	133.9
82.5°	83.2	89.2	94.5	95.3	91.5	83.2	90.0	90.7	97.6	88.5	83.2
85°	46.1	51.4	58.2	55.2	49.2	43.9	46.1	47.6	46.9	44.6	41.6
87.5°	12.1	12.9	14.4	10.6	9.8	8.3	11.3	11.3	12.9	13.6	12.9
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°	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8
2.5°	2449.5	2482.8	2554.6	2609.1	2675.6	2756.5	2851.8	2947.9	3051.5	3084.0	3129.4
5°	2026.7	2109.9	2144.7	2243.8	2342.1	2489.6	2646.9	2829.1	3028.8	3124.8	3217.1
7.5°	1731.8	1776.4	1812.7	1885.3	2003.3	2182.5	2379.9	2607.5	2890.4	3030.3	3165.7
10°	1573.0	1577.5	1622.2	1712.1	1815.0	1973.0	2159.8	2414.7	2730.1	2900.2	3059.0
12.5°	1467.9	1448.2	1496.6	1590.4	1706.9	1852.8	2024.5	2267.2	2614.3	2789.0	2981.1
15°	1375.6	1344.6	1380.9	1477.0	1591.9	1763.6	1948.1	2205.2	2569.0	2772.4	2985.7
17.5°	1377.9	1292.4	1305.3	1386.2	1500.4	1675.1	1898.9	2202.9	2637.8	2872.2	3124.8
20°	1548.0	1411.2	1352.9	1368.1	1478.5	1669.0	1921.6	2308.8	2863.9	3205.7	3475.7
22.5°	1715.2	1632.7	1539.0	1508.0	1568.5	1768.1	2066.1	2559.1	3355.5	3870.5	4358.3
25°	1656.9	1727.3	1703.8	1660.0	1673.6	1839.2	2164.4	2764.8	3737.4	4317.4	4775.7
27.5°	1325.7	1453.5	1479.2	1478.5	1483.8	1619.9	1946.6	2626.4	3785.0	4402.9	4840.7
30°	931.7	943.0	956.7	983.1	1007.3	1129.1	1523.1	2305.8	3763.8	4441.4	4880.1
32.5°	672.3	687.4	706.3	742.6	800.1	955.1	1332.5	2203.7	3875.8	4601.0	4995.0
35°	614.8	632.2	650.4	692.0	746.4	890.1	1256.9	2161.4	4059.5	4859.6	5201.5
37.5°	596.7	616.3	632.2	662.5	706.3	843.2	1188.1	2132.6	4247.8	5133.4	5478.3
40°	583.8	606.5	619.4	643.6	673.8	800.1	1126.8	2109.9	4430.1	5383.7	5700.6
42.5°	572.5	595.9	612.6	630.0	654.9	761.5	1072.4	2087.2	4588.2	5626.5	5922.2
45°	558.9	588.4	609.5	623.1	645.1	729.0	1030.8	2069.1	4768.1	5842.0	6146.0
47.5°	547.5	580.0	606.5	622.4	630.7	706.3	997.5	2094.0	4984.4	6067.4	6354.0
50°	548.3	579.3	612.6	637.5	615.6	687.4	977.1	2193.1	5265.8	6335.1	6518.1
52.5°	572.5	610.3	636.8	642.8	594.4	664.7	966.5	2366.3	5598.5	6571.8	6683.7
55°	599.7	639.0	667.8	664.0	583.1	636.0	964.2	2550.8	5963.0	6847.8	6899.2
57.5°	589.9	647.3	691.2	671.5	583.8	608.0	954.4	2699.8	6267.8	7054.3	7112.5
58°	586.8	644.3	694.2	670.0	581.6	599.7	952.1	2712.7	6310.1	7068.6	7142.8
60°	557.4	617.9	692.0	658.7	568.7	577.0	927.2	2754.3	6298.8	6994.5	7160.9
62.5°	503.7	553.6	639.8	603.5	529.4	546.8	871.2	2702.8	5991.7	6637.6	6895.5
65°	443.2	480.2	537.7	530.9	473.4	515.8	794.8	2499.4	5376.9	6058.3	6329.8
67.5°	397.8	428.0	464.3	454.5	425.8	474.2	712.4	2155.3	4687.2	5362.6	5704.4
70°	351.7	375.1	393.2	386.4	377.4	433.3	639.0	1749.2	4026.3	4701.6	5032.8
72.5°	304.8	326.7	341.8	332.0	326.7	390.2	579.3	1357.5	3180.0	3878.8	4304.6
75°	254.9	276.8	287.4	276.0	273.0	344.1	490.8	1014.1	2386.0	2990.2	3357.7
77.5°	197.4	220.8	234.4	230.7	232.2	282.8	396.3	694.2	1706.1	2038.1	2425.3
80°	138.4	164.1	173.2	169.4	180.0	215.5	279.8	440.9	1176.7	1322.7	1595.7
82.5°	85.5	109.7	111.2	114.9	122.5	159.6	211.0	268.5	738.9	763.8	961.9
85°	43.1	52.2	56.0	62.0	68.8	97.6	120.2	166.4	475.7	360.0	537.7
87.5°	14.4	15.1	18.1	22.7	28.0	40.1	51.4	68.1	118.0	65.0	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: P453134

CATALOG NUMBER: GALN-SA4A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8
2.5°	3220.9	3285.1	3332.0	3375.1	3333.5	3329.8	3288.9	3223.1	3195.9	3195.9
5°	3410.7	3561.2	3682.9	3760.8	3727.5	3647.4	3515.0	3346.4	3255.6	3239.8
7.5°	3462.9	3760.1	3986.2	4066.3	4010.4	3833.4	3580.1	3295.7	3165.7	3136.9
10°	3431.1	3817.5	4149.5	4276.6	4198.7	3931.0	3585.4	3236.7	3076.4	3043.1
12.5°	3397.8	3825.1	4179.8	4363.5	4312.9	4009.6	3623.9	3198.2	3012.9	2965.2
15°	3422.0	3828.1	4142.7	4332.5	4365.1	4104.2	3687.5	3226.2	3000.0	2949.4
17.5°	3574.8	3885.6	4089.8	4243.3	4357.5	4232.7	3868.2	3360.0	3115.0	3052.2
20°	3893.9	4023.2	4120.0	4238.8	4422.5	4495.1	4238.0	3727.5	3437.9	3382.7
22.5°	4818.1	4794.6	4596.5	4594.2	4860.4	5151.6	5134.2	4474.7	4039.1	3993.7
25°	5164.4	5055.5	4768.9	4699.3	4816.5	5265.8	5200.7	4627.5	4225.2	4114.7
27.5°	5029.0	4759.1	4570.8	4554.9	4516.3	4940.6	5097.1	4689.5	4290.2	4182.8
30°	5020.7	4623.7	4354.5	4386.2	4423.3	4828.6	5154.6	4883.8	4456.6	4341.6
32.5°	5041.1	4642.6	4370.4	4376.4	4486.8	4845.3	5218.1	5095.6	4675.1	4560.2
35°	5123.6	4750.0	4471.7	4457.3	4629.7	4954.2	5326.3	5428.3	4973.8	4843.0
37.5°	5256.7	4964.0	4657.0	4653.2	4903.5	5150.8	5460.9	5764.1	5271.0	5130.4
40°	5452.5	5214.3	4986.7	4966.3	5275.6	5470.7	5635.6	6121.8	5616.6	5435.9
42.5°	5689.2	5514.6	5421.5	5502.5	5799.7	5829.9	5907.8	6452.3	5910.8	5700.6
45°	5908.6	5900.2	6029.6	6244.3	6417.5	6236.0	6192.2	6673.9	6139.2	5910.8
47.5°	6169.5	6394.8	6785.1	7099.7	7281.2	6708.7	6434.9	6818.3	6305.6	6095.4
50°	6434.2	6987.0	7610.1	8048.7	8087.3	7222.2	6602.0	6954.5	6456.8	6238.3
52.5°	6712.5	7459.6	8289.2	8798.9	8724.1	7669.1	6763.9	7046.7	6612.6	6420.5
55°	6954.5	7749.3	8668.9	9158.2	9048.5	7941.4	6938.6	7146.5	6835.0	6673.1
57.5°	7089.8	7773.5	8574.3	9001.6	8882.9	7888.4	7018.7	7220.7	6977.1	6850.1
58°	7109.5	7740.9	8490.4	8910.9	8789.9	7843.8	7018.0	7217.6	6986.2	6858.4
60°	7092.1	7530.0	8178.1	8552.4	8425.4	7564.0	6989.2	7160.9	6871.3	6763.1
62.5°	6931.0	7163.9	7638.9	7911.1	7874.8	7126.9	6871.3	6946.9	6521.1	6416.8
65°	6719.3	6664.8	6948.4	7141.2	7168.5	6799.4	6754.0	6484.1	6071.9	5924.4
67.5°	6462.1	6099.1	6098.4	6208.0	6253.4	6295.8	6509.8	5981.2	5424.6	5268.8
70°	6025.8	5227.2	4986.7	5116.0	5078.2	5435.9	6073.4	5274.8	4644.1	4461.9
72.5°	5225.7	4148.0	3763.1	3929.5	3834.2	4263.0	5314.2	4340.9	3840.2	3616.4
75°	4235.7	3102.9	2705.9	2858.6	2799.6	3233.7	4421.8	3152.8	2754.3	2668.8
77.5°	3288.9	2248.3	2017.7	1996.5	2040.4	2406.4	3243.5	2128.8	1815.8	1757.5
80°	2113.0	1609.3	1622.9	1595.7	1618.4	1517.0	1969.3	1358.2	1229.7	1182.8
82.5°	1390.7	1121.5	1337.0	1234.2	1172.2	1020.2	1291.7	889.3	754.7	729.0
85°	947.6	825.8	751.7	574.7	676.8	785.7	968.8	478.7	379.6	344.1
87.5°	428.0	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)