

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: P452206

Luminaire Tested: **GALN-SA3A-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452206
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-SA3A-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 8651 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

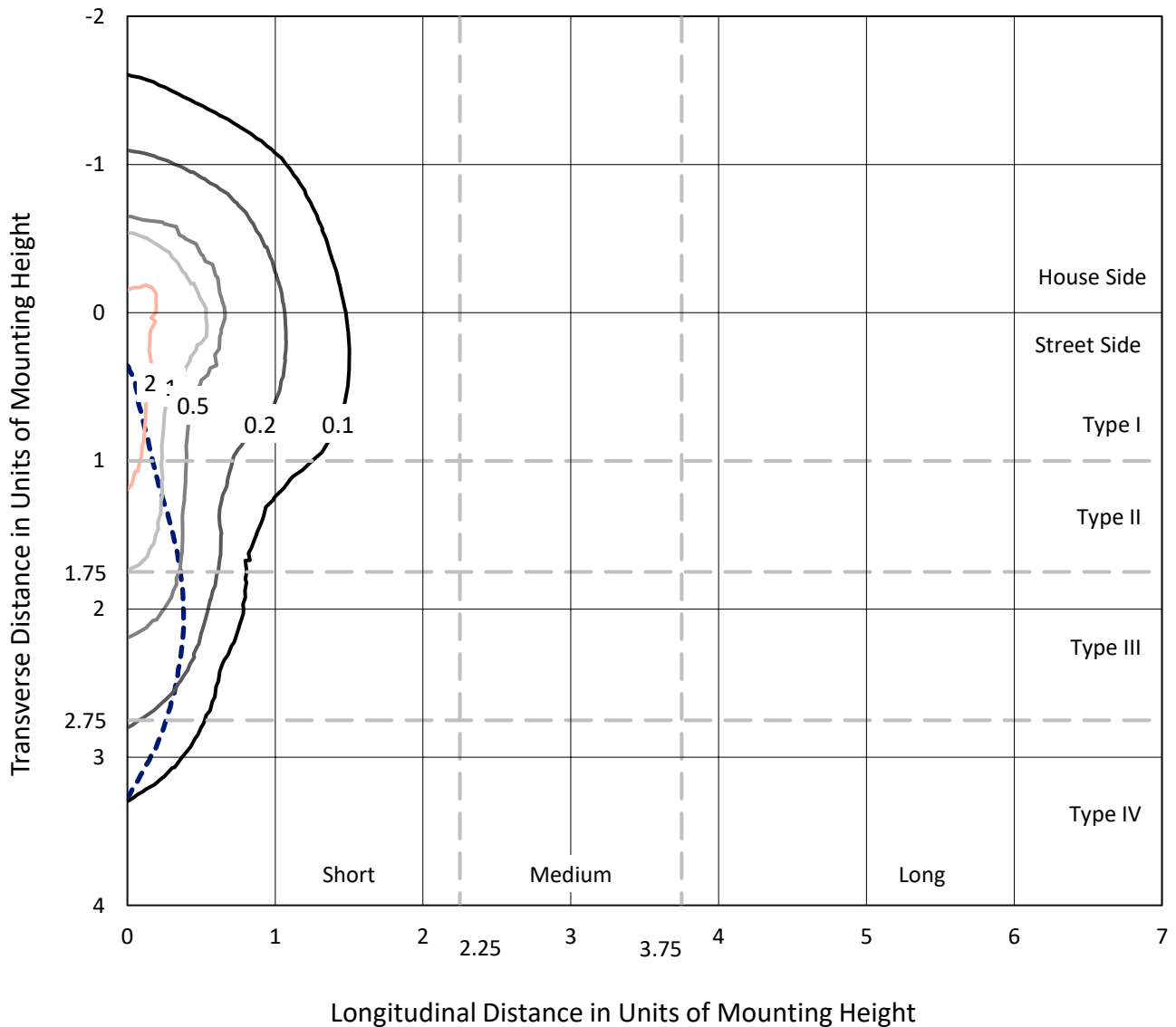
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

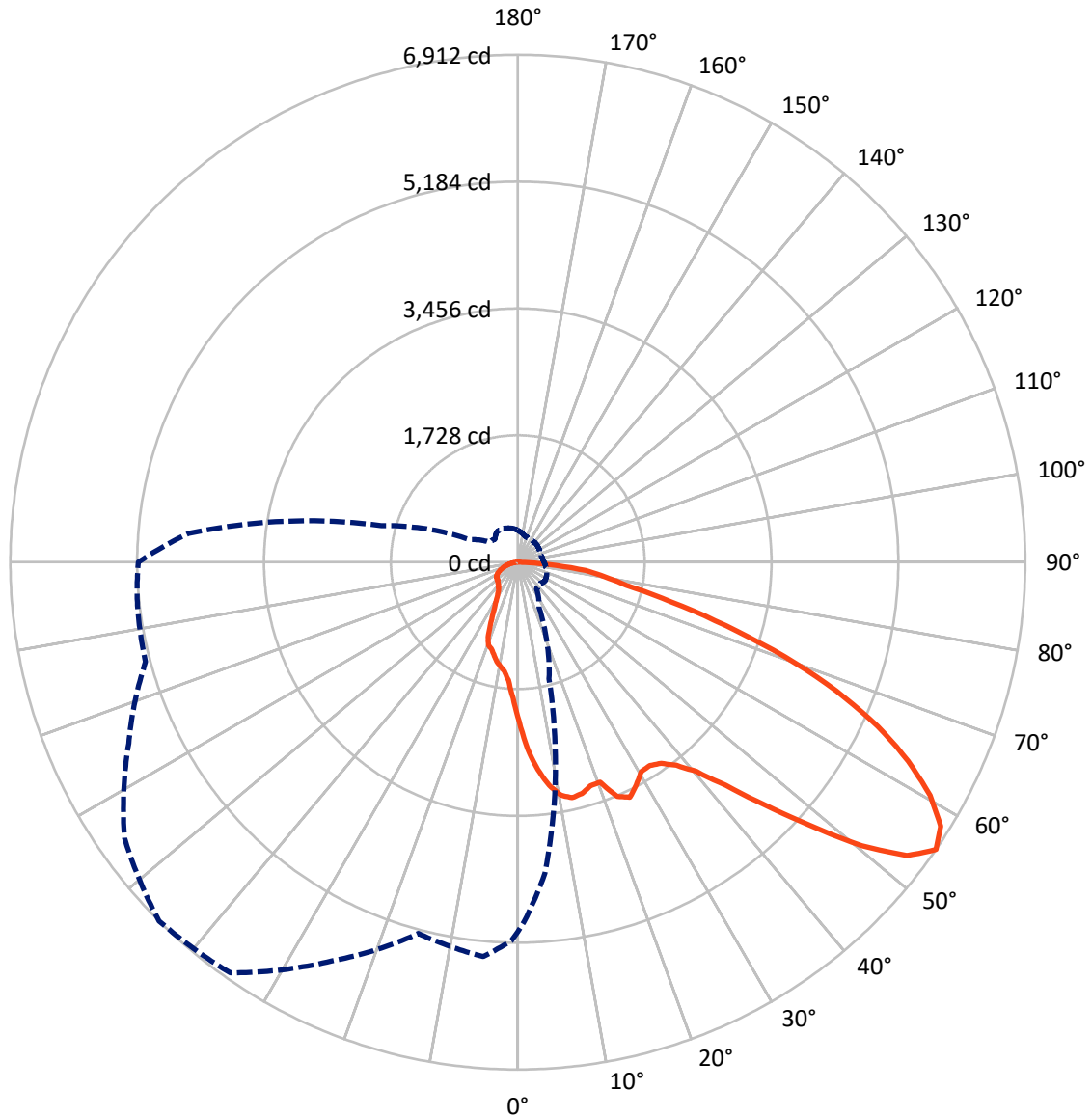
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1892.4	0.0	1892.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6758.6	0.0	6758.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	8651.0	0.0	8651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	2.1
10°-20°	488.2	5.6
20°-30°	843.3	9.7
30°-40°	980.1	11.3
40°-50°	1367.4	15.8
50°-60°	1855.4	21.4
60°-70°	1765.2	20.4
70°-80°	953.6	11.0
80°-90°	213.7	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°	8651.0	100.0
0°-180°	8651.0	100.0

Coefficient of Utilization



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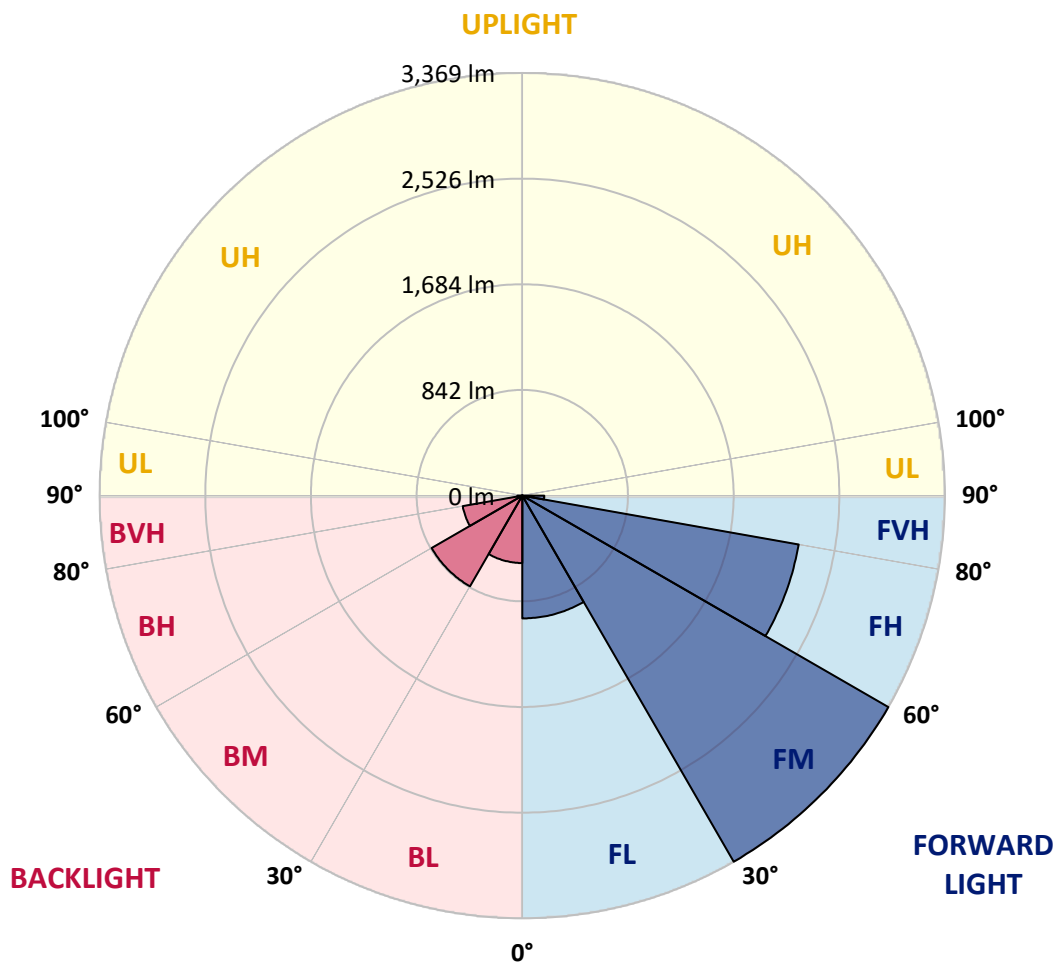
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	978.4	11.3			
FM	(30°-60°)	3368.5	38.9			
FH	(60°-80°)	2237.0	25.9			G2/5000
FVH	(80°-90°)	174.7	2.0			G2/225
BL	(0°-30°)	537.1	6.2	B2/1000		
BM	(30°-60°)	834.4	9.6	B1/1000		
BH	(60°-80°)	481.8	5.6	B1/500		G1/500
BVH	(80°-90°)	39.1	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1
2.5°	2411.9	2402.8	2377.1	2309.8	2241.8	2172.8	2119.7	2053.5	1984.4	1947.3	1900.0
5°	2445.0	2434.7	2374.2	2222.4	2084.9	1940.5	1825.2	1724.2	1683.1	1622.6	1574.1
7.5°	2367.4	2362.8	2272.1	2054.1	1865.7	1676.8	1546.1	1465.1	1391.4	1364.0	1369.8
10°	2296.6	2278.4	2164.8	1880.0	1660.3	1506.7	1413.1	1333.8	1281.9	1268.2	1271.0
12.5°	2237.8	2213.3	2079.2	1763.0	1570.7	1447.9	1328.7	1245.9	1198.5	1211.7	1256.2
15°	2225.9	2192.8	2043.2	1723.0	1521.6	1363.5	1232.8	1137.5	1102.1	1130.6	1202.0
17.5°	2303.5	2261.8	2104.9	1736.2	1474.8	1277.3	1116.9	1007.9	978.2	1023.9	1116.9
20°	2552.9	2491.2	2297.2	1812.1	1470.2	1234.5	1049.6	940.0	952.6	1039.3	1136.3
22.5°	3014.0	2921.6	2633.9	1922.8	1494.2	1223.6	1035.9	978.8	1047.9	1121.5	1185.4
25°	3105.4	3032.9	2694.4	1947.9	1489.0	1216.2	1074.7	1103.2	1180.3	1216.8	1194.5
27.5°	3156.7	3074.0	2690.4	1823.5	1331.5	1103.2	1027.3	1074.7	1094.1	1058.7	998.2
30°	3276.6	3190.4	2758.3	1692.8	1096.4	818.4	717.4	698.0	711.1	718.0	696.3
32.5°	3441.5	3356.5	2886.2	1607.2	948.0	676.9	577.6	550.2	543.9	536.5	527.9
35°	3655.0	3524.3	3011.8	1552.4	886.9	626.1	534.8	513.7	505.1	494.8	485.7
37.5°	3871.8	3734.9	3170.4	1494.7	846.4	590.7	506.2	496.5	481.7	470.9	457.7
40°	4102.4	3948.9	3314.8	1444.5	807.0	567.9	485.7	484.6	465.1	452.6	437.2
42.5°	4302.2	4144.1	3443.8	1413.7	776.8	543.9	473.1	476.6	456.6	437.8	417.8
45°	4460.8	4305.6	3563.1	1413.7	752.2	519.9	470.9	468.6	448.6	425.2	402.4
47.5°	4600.1	4439.7	3679.5	1449.7	736.8	500.0	458.3	462.3	441.7	412.1	389.8
50°	4708.0	4566.4	3836.5	1505.6	721.4	484.0	442.3	464.0	436.0	405.2	379.5
52.5°	4845.5	4718.8	4025.4	1582.1	708.3	466.3	428.0	464.0	435.5	405.8	377.8
55°	5036.1	4902.6	4253.1	1645.4	687.2	449.7	415.5	450.9	433.8	402.9	373.3
57.5°	5169.7	5069.8	4414.0	1687.7	656.9	428.6	404.1	438.3	426.3	392.1	359.6
58°	5176.0	5078.4	4437.4	1697.4	649.5	424.6	401.2	432.6	422.9	387.5	355.0
60°	5104.1	5020.2	4442.0	1683.7	607.3	404.6	386.4	409.2	404.6	360.7	330.5
62.5°	4842.7	4753.1	4257.7	1572.4	551.3	380.1	363.6	377.8	367.6	323.0	295.1
65°	4471.1	4306.2	3878.7	1397.7	511.4	353.9	332.7	333.9	323.0	291.1	266.5
67.5°	3976.3	3791.9	3284.0	1178.0	481.1	324.7	296.2	293.4	280.2	259.7	239.7
70°	3367.3	3241.2	2668.7	958.3	447.5	292.8	255.1	253.4	245.4	230.0	212.3
72.5°	2729.2	2568.9	2155.1	767.1	406.4	262.0	216.9	220.3	210.0	199.2	183.2
75°	2014.1	1909.1	1666.0	615.2	351.0	228.3	180.9	182.1	177.5	166.1	153.5
77.5°	1326.4	1295.0	1191.7	404.1	270.0	181.5	147.8	149.0	145.5	135.3	122.1
80°	892.6	871.5	807.6	260.3	180.4	131.3	114.1	115.3	114.7	103.9	86.2
82.5°	550.2	541.1	520.5	175.8	125.0	94.2	75.3	78.8	85.0	73.1	58.8
85°	259.7	260.3	314.5	95.9	73.6	60.5	41.1	43.9	43.9	43.9	33.1
87.5°	33.7	35.4	43.4	40.5	26.8	22.8	14.8	12.6	10.8	14.3	10.3
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°	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1
2.5°	1883.4	1872.0	1847.5	1841.8	1838.3	1848.0	1822.3	1829.2	1817.8	1849.7	1844.6
5°	1576.9	1578.1	1598.0	1611.2	1615.7	1611.2	1594.1	1564.4	1541.5	1532.4	1534.7
7.5°	1358.9	1378.9	1413.1	1451.4	1486.2	1496.5	1486.8	1430.3	1368.6	1329.8	1317.2
10°	1286.4	1313.3	1352.6	1382.9	1413.7	1438.2	1443.4	1399.4	1326.4	1234.5	1198.5
12.5°	1290.4	1327.0	1364.6	1374.3	1371.5	1381.2	1376.6	1369.2	1321.2	1204.2	1144.3
15°	1252.8	1296.1	1322.4	1317.2	1308.1	1299.6	1287.6	1268.7	1251.6	1169.4	1103.2
17.5°	1166.0	1210.5	1232.2	1233.9	1233.9	1231.6	1202.5	1195.7	1193.4	1153.4	1112.9
20°	1182.0	1206.5	1196.8	1180.8	1185.4	1200.8	1183.7	1180.3	1193.4	1211.1	1203.7
22.5°	1191.1	1182.6	1109.5	1038.7	1022.8	1070.7	1080.4	1118.6	1171.7	1235.6	1277.3
25°	1134.6	1065.6	934.9	855.0	809.9	854.4	912.6	983.4	1062.7	1144.9	1193.4
27.5°	948.6	896.0	802.4	730.5	691.2	698.0	747.7	812.2	885.8	941.1	976.5
30°	714.6	691.2	642.6	618.1	594.1	588.4	609.5	634.1	666.6	673.5	682.6
32.5°	526.2	522.8	525.6	517.7	513.1	512.5	506.2	511.9	515.4	519.4	511.4
35°	476.0	471.4	463.4	461.2	458.3	459.4	456.6	453.7	456.0	459.4	461.7
37.5°	450.3	443.5	432.0	428.0	428.0	429.8	425.2	424.1	428.0	438.9	444.6
40°	430.3	422.3	409.2	404.1	407.5	412.1	405.8	403.5	413.2	424.6	433.8
42.5°	411.5	405.2	392.7	387.0	389.8	398.4	389.2	387.5	400.1	412.6	423.5
45°	395.5	389.2	377.8	375.0	376.1	384.1	377.8	377.8	389.8	403.5	413.2
47.5°	383.0	375.0	367.6	365.3	366.4	371.0	369.8	369.8	381.2	395.5	405.2
50°	370.4	363.6	353.9	355.0	357.8	364.1	363.6	365.3	376.7	394.4	404.6
52.5°	364.7	354.4	343.6	344.7	353.3	360.7	358.4	360.1	373.3	406.4	421.2
55°	358.4	344.7	332.2	333.9	343.6	354.4	351.6	353.9	369.3	414.4	434.9
57.5°	346.4	330.5	316.8	317.9	332.2	343.6	339.0	341.9	360.1	405.8	427.5
58°	341.3	327.6	314.5	315.0	328.7	341.3	336.2	338.4	357.3	403.5	424.1
60°	319.6	311.6	300.2	300.8	313.9	324.7	321.9	324.2	342.4	387.0	402.4
62.5°	289.9	285.4	282.5	282.5	290.5	300.8	303.6	306.5	323.0	349.9	363.6
65°	258.0	258.0	258.5	258.5	263.7	276.8	278.5	285.9	301.3	314.5	324.7
67.5°	236.3	235.1	236.3	233.4	235.7	243.7	252.3	259.1	275.1	284.2	287.6
70°	208.3	207.7	208.3	204.3	207.2	214.0	219.7	231.1	247.7	254.5	256.3
72.5°	180.9	180.9	182.1	179.2	179.2	186.6	190.6	203.2	218.6	222.6	223.2
75°	152.4	154.1	154.1	150.1	151.2	155.8	160.9	171.2	185.5	188.3	188.3
77.5°	121.0	127.3	127.3	123.3	125.0	125.6	132.4	137.5	148.4	149.5	145.0
80°	87.9	94.2	99.3	95.9	98.7	95.3	99.3	102.7	113.6	108.4	101.0
82.5°	62.8	67.3	71.3	71.9	69.1	62.8	67.9	68.5	73.6	66.8	62.8
85°	34.8	38.8	43.9	41.7	37.1	33.1	34.8	36.0	35.4	33.7	31.4
87.5°	9.1	9.7	10.8	8.0	7.4	6.3	8.6	8.6	9.7	10.3	9.7
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°	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1
2.5°	1848.6	1873.7	1927.9	1969.0	2019.2	2080.3	2152.2	2224.7	2302.9	2327.4	2361.7
5°	1529.6	1592.3	1618.6	1693.4	1767.6	1878.8	1997.6	2135.1	2285.8	2358.3	2427.9
7.5°	1307.0	1340.6	1368.0	1422.8	1511.9	1647.1	1796.1	1967.9	2181.3	2286.9	2389.1
10°	1187.1	1190.5	1224.2	1292.1	1369.8	1489.0	1630.0	1822.3	2060.3	2188.8	2308.6
12.5°	1107.8	1093.0	1129.5	1200.2	1288.1	1398.3	1527.8	1711.1	1973.0	2104.9	2249.8
15°	1038.2	1014.8	1042.2	1114.6	1201.4	1330.9	1470.2	1664.3	1938.8	2092.3	2253.2
17.5°	1039.9	975.4	985.1	1046.2	1132.3	1264.2	1433.1	1662.5	1990.7	2167.6	2358.3
20°	1168.3	1065.0	1021.0	1032.5	1115.8	1259.6	1450.2	1742.4	2161.4	2419.3	2623.1
22.5°	1294.4	1232.2	1161.4	1138.0	1183.7	1334.4	1559.2	1931.4	2532.3	2921.0	3289.1
25°	1250.5	1303.6	1285.9	1252.8	1263.0	1388.0	1633.4	2086.6	2820.6	3258.3	3604.2
27.5°	1000.5	1096.9	1116.4	1115.8	1119.8	1222.5	1469.1	1982.2	2856.5	3322.8	3653.3
30°	703.1	711.7	722.0	742.0	760.2	852.1	1149.5	1740.2	2840.5	3351.9	3682.9
32.5°	507.4	518.8	533.1	560.5	603.8	720.8	1005.6	1663.1	2925.0	3472.3	3769.7
35°	464.0	477.1	490.8	522.2	563.3	671.8	948.6	1631.2	3063.7	3667.5	3925.5
37.5°	450.3	465.1	477.1	500.0	533.1	636.4	896.6	1609.5	3205.8	3874.1	4134.4
40°	440.6	457.7	467.4	485.7	508.5	603.8	850.4	1592.3	3343.3	4063.0	4302.2
42.5°	432.0	449.7	462.3	475.4	494.3	574.7	809.3	1575.2	3462.6	4246.2	4469.4
45°	421.8	444.0	460.0	470.3	486.8	550.2	777.9	1561.5	3598.5	4408.9	4638.3
47.5°	413.2	437.8	457.7	469.7	476.0	533.1	752.8	1580.4	3761.7	4579.0	4795.3
50°	413.8	437.2	462.3	481.1	464.6	518.8	737.4	1655.1	3974.0	4781.0	4919.1
52.5°	432.0	460.6	480.6	485.1	448.6	501.7	729.4	1785.8	4225.1	4959.7	5044.1
55°	452.6	482.3	504.0	501.1	440.0	480.0	727.7	1925.1	4500.2	5168.0	5206.8
57.5°	445.2	488.5	521.6	506.8	440.6	458.9	720.3	2037.5	4730.2	5323.8	5367.7
58°	442.9	486.3	523.9	505.7	438.9	452.6	718.6	2047.2	4762.2	5334.6	5390.6
60°	420.6	466.3	522.2	497.1	429.2	435.5	699.7	2078.6	4753.6	5278.7	5404.3
62.5°	380.1	417.8	482.8	455.4	399.5	412.6	657.5	2039.8	4521.9	5009.3	5203.9
65°	334.4	362.4	405.8	400.7	357.3	389.2	599.8	1886.3	4057.9	4572.1	4777.0
67.5°	300.2	323.0	350.4	343.0	321.3	357.8	537.6	1626.6	3537.4	4047.1	4305.0
70°	265.4	283.1	296.8	291.6	284.8	327.0	482.3	1320.1	3038.6	3548.2	3798.2
72.5°	230.0	246.6	258.0	250.6	246.6	294.5	437.2	1024.5	2399.9	2927.3	3248.6
75°	192.3	208.9	216.9	208.3	206.0	259.7	370.4	765.4	1800.7	2256.7	2534.0
77.5°	149.0	166.7	176.9	174.1	175.2	213.5	299.1	523.9	1287.6	1538.1	1830.3
80°	104.4	123.8	130.7	127.8	135.8	162.7	211.2	332.7	888.1	998.2	1204.2
82.5°	64.5	82.8	83.9	86.8	92.5	120.4	159.2	202.6	557.6	576.4	726.0
85°	32.5	39.4	42.2	46.8	51.9	73.6	90.7	125.6	359.0	271.7	405.8
87.5°	10.8	11.4	13.7	17.1	21.1	30.2	38.8	51.4	89.0	49.1	125.6
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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CATALOG NUMBER: GALN-SA3A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1
2.5°	2430.7	2479.3	2514.6	2547.2	2515.8	2512.9	2482.1	2432.5	2411.9	2411.9
5°	2574.0	2687.6	2779.5	2838.2	2813.1	2752.6	2652.8	2525.5	2457.0	2445.0
7.5°	2613.4	2837.7	3008.3	3068.8	3026.6	2893.0	2701.8	2487.2	2389.1	2367.4
10°	2589.4	2881.1	3131.6	3227.5	3168.7	2966.7	2705.8	2442.7	2321.7	2296.6
12.5°	2564.3	2886.8	3154.4	3293.1	3254.9	3026.0	2734.9	2413.6	2273.8	2237.8
15°	2582.6	2889.0	3126.5	3269.7	3294.3	3097.4	2782.9	2434.7	2264.1	2225.9
17.5°	2697.8	2932.4	3086.5	3202.4	3288.6	3194.4	2919.3	2535.8	2350.8	2303.5
20°	2938.7	3036.3	3109.3	3199.0	3337.6	3392.4	3198.4	2813.1	2594.5	2552.9
22.5°	3636.1	3618.4	3468.9	3467.2	3668.1	3887.8	3874.7	3377.0	3048.3	3014.0
25°	3897.5	3815.3	3599.0	3546.5	3635.0	3974.0	3924.9	3492.3	3188.7	3105.4
27.5°	3795.4	3591.6	3449.5	3437.5	3408.4	3728.6	3846.7	3539.1	3237.8	3156.7
30°	3789.1	3489.5	3286.3	3310.2	3338.2	3644.1	3890.1	3685.8	3363.3	3276.6
32.5°	3804.5	3503.7	3298.3	3302.8	3386.2	3656.7	3938.0	3845.6	3528.3	3441.5
35°	3866.7	3584.8	3374.7	3363.9	3494.0	3738.9	4019.7	4096.7	3753.7	3655.0
37.5°	3967.2	3746.3	3514.6	3511.7	3700.6	3887.3	4121.3	4350.1	3978.0	3871.8
40°	4115.0	3935.2	3763.4	3748.0	3981.4	4128.7	4253.1	4620.1	4238.8	4102.4
42.5°	4293.6	4161.8	4091.6	4152.6	4376.9	4399.8	4458.6	4869.5	4460.8	4302.2
45°	4459.1	4452.8	4550.4	4712.5	4843.2	4706.3	4673.2	5036.7	4633.2	4460.8
47.5°	4656.0	4826.1	5120.6	5358.0	5495.0	5063.0	4856.4	5145.7	4758.8	4600.1
50°	4855.8	5273.0	5743.3	6074.3	6103.4	5450.5	4982.5	5248.4	4872.9	4708.0
52.5°	5065.8	5629.7	6255.8	6640.5	6584.0	5787.8	5104.6	5318.1	4990.5	4845.5
55°	5248.4	5848.3	6542.3	6911.6	6828.8	5993.3	5236.5	5393.4	5158.3	5036.1
57.5°	5350.6	5866.6	6471.0	6793.4	6703.8	5953.3	5297.0	5449.3	5265.6	5169.7
58°	5365.4	5842.0	6407.6	6724.9	6633.6	5919.6	5296.4	5447.1	5272.4	5176.0
60°	5352.3	5682.8	6171.9	6454.4	6358.5	5708.5	5274.7	5404.3	5185.7	5104.1
62.5°	5230.8	5406.5	5765.0	5970.4	5943.0	5378.6	5185.7	5242.7	4921.4	4842.7
65°	5071.0	5029.9	5243.9	5389.4	5410.0	5131.4	5097.2	4893.5	4582.4	4471.1
67.5°	4876.9	4603.0	4602.4	4685.1	4719.4	4751.3	4912.9	4513.9	4093.9	3976.3
70°	4547.6	3944.9	3763.4	3861.0	3832.5	4102.4	4583.5	3980.9	3504.9	3367.3
72.5°	3943.8	3130.5	2840.0	2965.5	2893.6	3217.2	4010.5	3276.0	2898.2	2729.2
75°	3196.7	2341.7	2042.1	2157.4	2112.8	2440.4	3337.1	2379.4	2078.6	2014.1
77.5°	2482.1	1696.8	1522.7	1506.7	1539.8	1816.1	2447.9	1606.6	1370.3	1326.4
80°	1594.6	1214.5	1224.8	1204.2	1221.4	1144.9	1486.2	1025.0	928.0	892.6
82.5°	1049.6	846.4	1009.1	931.4	884.6	769.9	974.8	671.2	569.6	550.2
85°	715.1	623.2	567.3	433.8	510.8	593.0	731.1	361.3	286.5	259.7
87.5°	323.0	216.9	159.2	98.2	155.2	179.2	355.0	42.2	32.5	33.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)