

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: P452061

Luminaire Tested: **GALN-SA3A-727-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452061
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-727-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 9841 lumens
Efficiency: N/A
Efficacy: 105.8 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

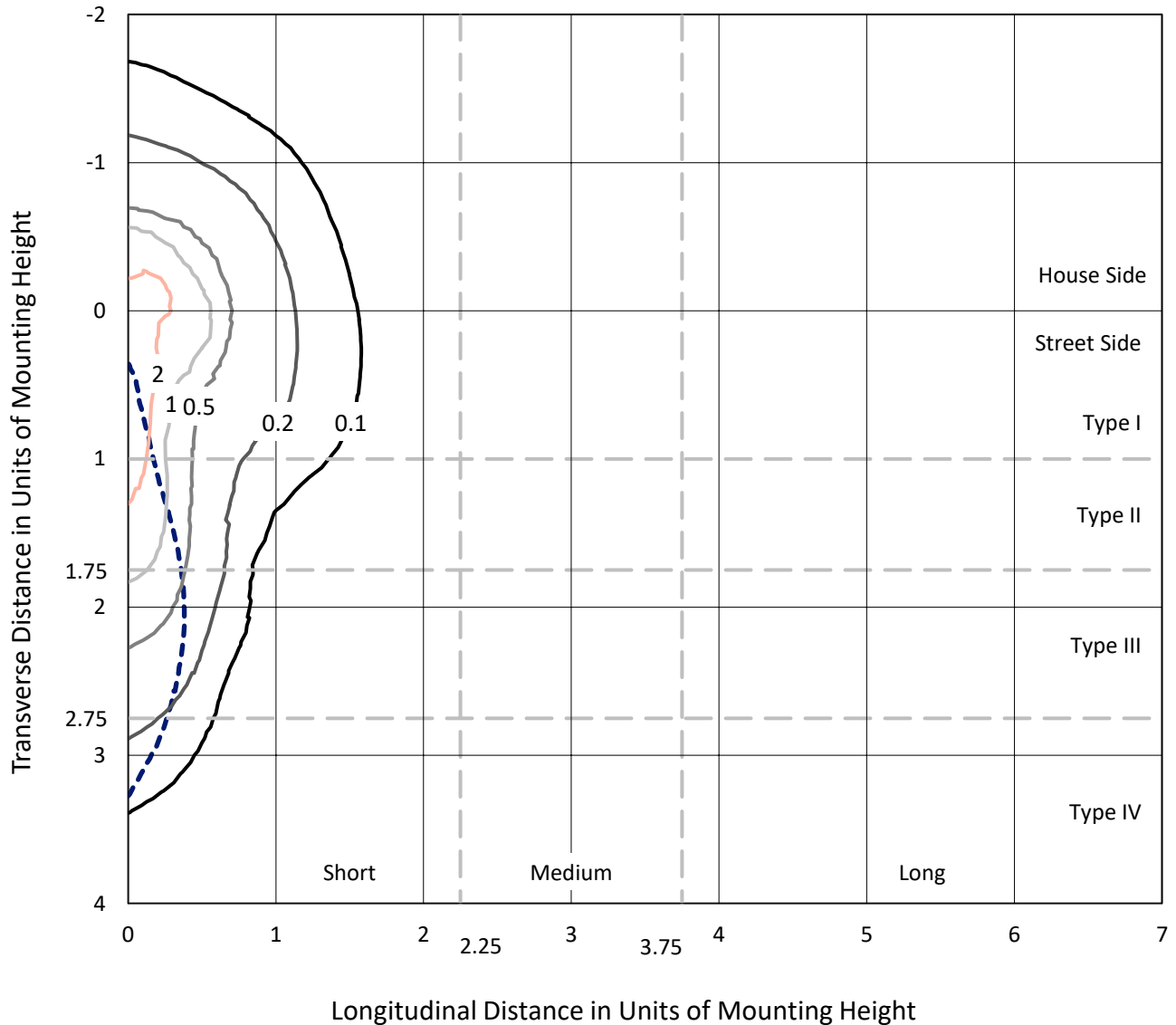




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Iso-Footcandle Lines of Horizontal Illumination

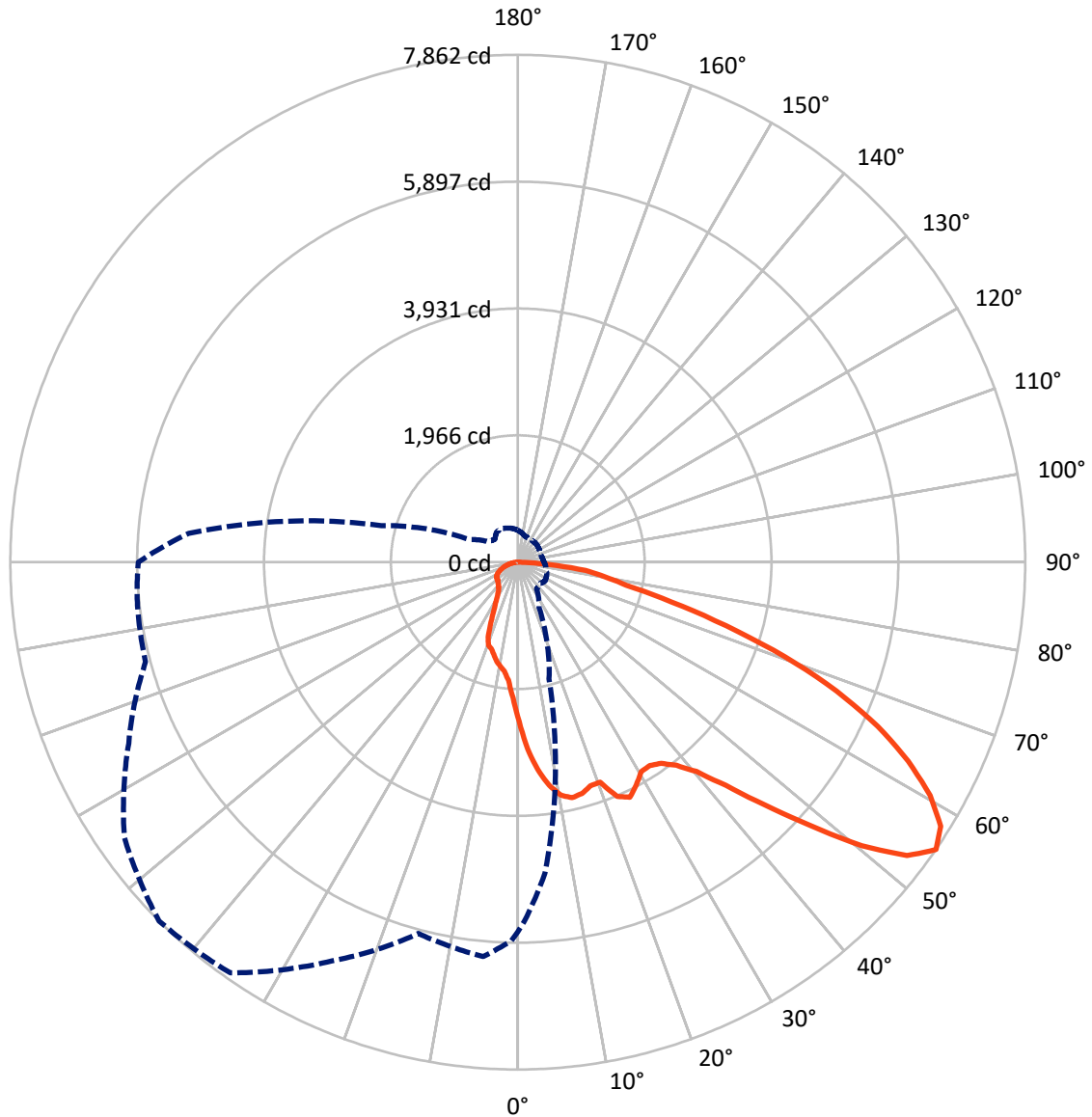
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	2152.7	0.0	2152.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7688.3	0.0	7688.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	9841.0	0.0	9841.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	2.1
10°-20°	555.3	5.6
20°-30°	959.3	9.7
30°-40°	1114.9	11.3
40°-50°	1555.5	15.8
50°-60°	2110.7	21.4
60°-70°	2008.0	20.4
70°-80°	1084.8	11.0
80°-90°	243.1	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°	9841.0	100.0
0°-180°	9841.0	100.0



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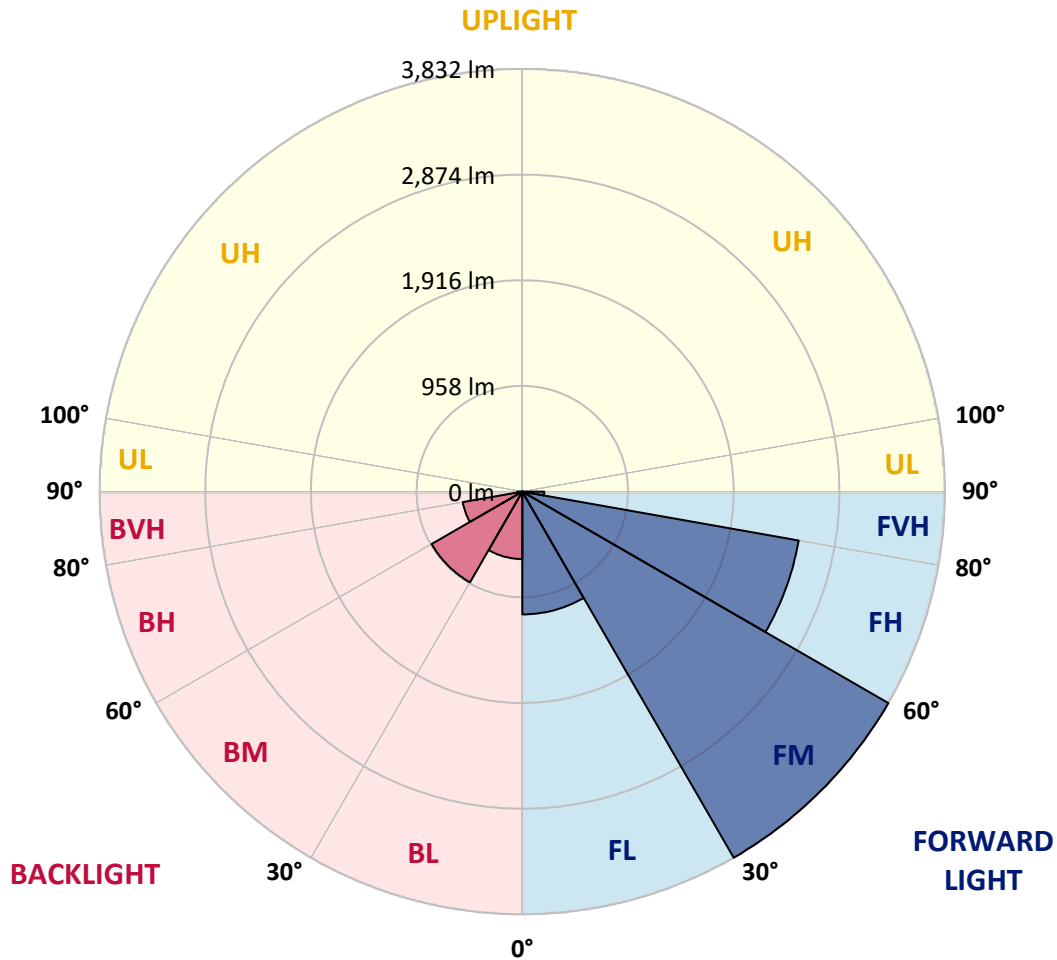
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1113.0	11.3			
FM	(30°-60°)	3831.9	38.9			
FH	(60°-80°)	2544.7	25.9			G2/5000
FVH	(80°-90°)	198.7	2.0			G2/225
BL	(0°-30°)	610.9	6.2	B2/1000		
BM	(30°-60°)	949.2	9.6	B1/1000		
BH	(60°-80°)	548.1	5.6	B2/1000		G2/1000
BVH	(80°-90°)	44.4	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°	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7
2.5°	2743.7	2733.3	2704.1	2627.5	2550.2	2471.7	2411.3	2336.0	2257.4	2215.2	2161.3
5°	2781.3	2769.7	2700.8	2528.1	2371.7	2207.4	2076.3	1961.4	1914.6	1845.8	1790.6
7.5°	2693.0	2687.9	2584.6	2336.6	2122.4	1907.5	1758.8	1666.6	1582.8	1551.7	1558.2
10°	2612.5	2591.8	2462.6	2138.6	1888.6	1714.0	1607.5	1517.3	1458.2	1442.6	1445.9
12.5°	2545.7	2517.8	2365.2	2005.5	1786.7	1647.1	1511.4	1417.3	1363.4	1378.3	1429.0
15°	2532.0	2494.4	2324.3	1960.1	1730.9	1551.0	1402.4	1293.9	1253.7	1286.1	1367.3
17.5°	2620.3	2572.9	2394.4	1975.0	1677.6	1453.0	1270.6	1146.6	1112.8	1164.7	1270.6
20°	2904.0	2833.9	2613.2	2061.3	1672.4	1404.3	1194.0	1069.3	1083.6	1182.3	1292.6
22.5°	3428.6	3323.5	2996.2	2187.3	1699.7	1392.0	1178.4	1113.4	1192.0	1275.8	1348.5
25°	3532.5	3450.1	3065.1	2215.9	1693.9	1383.5	1222.5	1255.0	1342.6	1384.2	1358.9
27.5°	3590.9	3496.8	3060.5	2074.3	1514.7	1255.0	1168.6	1222.5	1244.6	1204.3	1135.5
30°	3727.3	3629.2	3137.8	1925.6	1247.2	931.0	816.1	794.0	809.0	816.7	792.1
32.5°	3914.9	3818.2	3283.2	1828.3	1078.4	770.0	657.0	625.9	618.7	610.3	600.5
35°	4157.7	4009.1	3426.0	1765.9	1008.9	712.2	608.3	584.3	574.6	562.9	552.5
37.5°	4404.4	4248.6	3606.5	1700.4	962.8	672.0	575.9	564.8	548.0	535.6	520.7
40°	4666.7	4492.1	3770.8	1643.2	918.0	646.0	552.5	551.2	529.1	514.8	497.3
42.5°	4894.0	4714.1	3917.5	1608.2	883.6	618.7	538.2	542.1	519.4	498.0	475.2
45°	5074.5	4897.9	4053.2	1608.2	855.7	591.5	535.6	533.0	510.3	483.7	457.7
47.5°	5232.9	5050.4	4185.6	1649.1	838.2	568.7	521.3	525.9	502.5	468.8	443.4
50°	5355.6	5194.6	4364.2	1712.7	820.6	550.6	503.2	527.8	496.0	461.0	431.7
52.5°	5512.0	5367.9	4579.1	1799.7	805.7	530.4	486.9	527.8	495.4	461.6	429.8
55°	5728.9	5577.0	4838.1	1871.8	781.7	511.6	472.6	512.9	493.4	458.4	424.6
57.5°	5880.8	5767.2	5021.2	1919.8	747.3	487.6	459.7	498.6	485.0	446.0	409.0
58°	5888.0	5776.9	5047.8	1930.8	738.8	483.0	456.4	492.1	481.1	440.8	403.8
60°	5806.1	5710.7	5053.0	1915.3	690.8	460.3	439.5	465.5	460.3	410.3	375.9
62.5°	5508.8	5406.9	4843.3	1788.7	627.2	432.4	413.6	429.8	418.1	367.5	335.7
65°	5086.1	4898.5	4412.2	1590.0	581.7	402.5	378.5	379.8	367.5	331.1	303.2
67.5°	4523.3	4313.5	3735.7	1340.0	547.3	369.4	337.0	333.7	318.8	295.4	272.7
70°	3830.5	3687.0	3035.8	1090.1	509.0	333.1	290.2	288.3	279.2	261.6	241.5
72.5°	3104.7	2922.2	2451.5	872.6	462.3	298.0	246.7	250.6	238.9	226.6	208.4
75°	2291.2	2171.7	1895.1	699.9	399.3	259.7	205.8	207.1	201.9	188.9	174.6
77.5°	1508.8	1473.1	1355.6	459.7	307.1	206.5	168.2	169.5	165.6	153.9	138.9
80°	1015.4	991.4	918.7	296.1	205.2	149.3	129.8	131.1	130.5	118.2	98.0
82.5°	625.9	615.5	592.1	200.0	142.2	107.1	85.7	89.6	96.7	83.1	66.9
85°	295.4	296.1	357.7	109.1	83.8	68.8	46.7	50.0	50.0	50.0	37.7
87.5°	38.3	40.3	49.3	46.1	30.5	26.0	16.9	14.3	12.3	16.2	11.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7
2.5°	2142.5	2129.5	2101.6	2095.1	2091.2	2102.2	2073.0	2080.8	2067.8	2104.2	2098.3
5°	1793.8	1795.1	1817.9	1832.8	1838.0	1832.8	1813.3	1779.6	1753.6	1743.2	1745.8
7.5°	1545.8	1568.6	1607.5	1651.0	1690.6	1702.3	1691.3	1627.0	1556.9	1512.7	1498.4
10°	1463.4	1493.9	1538.7	1573.1	1608.2	1636.1	1641.9	1591.9	1508.8	1404.3	1363.4
12.5°	1467.9	1509.5	1552.3	1563.4	1560.1	1571.2	1566.0	1557.5	1503.0	1369.9	1301.7
15°	1425.1	1474.4	1504.3	1498.4	1488.1	1478.3	1464.7	1443.3	1423.8	1330.3	1255.0
17.5°	1326.4	1377.0	1401.7	1403.7	1403.7	1401.1	1367.9	1360.2	1357.6	1312.1	1266.0
20°	1344.6	1372.5	1361.5	1343.3	1348.5	1366.0	1346.5	1342.6	1357.6	1377.7	1369.2
22.5°	1355.0	1345.2	1262.1	1181.6	1163.4	1218.0	1229.0	1272.5	1332.9	1405.6	1453.0
25°	1290.7	1212.1	1063.5	972.6	921.3	971.9	1038.1	1118.6	1208.9	1302.4	1357.6
27.5°	1079.0	1019.3	912.8	831.0	786.2	794.0	850.5	923.9	1007.6	1070.6	1110.8
30°	812.8	786.2	731.0	703.1	675.9	669.4	693.4	721.3	758.3	766.1	776.5
32.5°	598.6	594.7	597.9	588.9	583.7	583.0	575.9	582.4	586.3	590.8	581.7
35°	541.5	536.3	527.2	524.6	521.3	522.6	519.4	516.1	518.7	522.6	525.2
37.5°	512.2	504.5	491.5	486.9	486.9	488.9	483.7	482.4	486.9	499.3	505.8
40°	489.5	480.4	465.5	459.7	463.6	468.8	461.6	459.0	470.0	483.0	493.4
42.5°	468.1	461.0	446.7	440.2	443.4	453.2	442.8	440.8	455.1	469.4	481.7
45°	449.9	442.8	429.8	426.6	427.8	436.9	429.8	429.8	443.4	459.0	470.0
47.5°	435.6	426.6	418.1	415.5	416.8	422.0	420.7	420.7	433.7	449.9	461.0
50°	421.4	413.6	402.5	403.8	407.1	414.2	413.6	415.5	428.5	448.6	460.3
52.5°	414.9	403.2	390.8	392.1	401.9	410.3	407.7	409.7	424.6	462.3	479.1
55°	407.7	392.1	377.9	379.8	390.8	403.2	399.9	402.5	420.1	471.3	494.7
57.5°	394.1	375.9	360.3	361.6	377.9	390.8	385.6	388.9	409.7	461.6	486.3
58°	388.2	372.7	357.7	358.4	374.0	388.2	382.4	385.0	406.4	459.0	482.4
60°	363.6	354.5	341.5	342.1	357.1	369.4	366.2	368.8	389.5	440.2	457.7
62.5°	329.8	324.6	321.4	321.4	330.5	342.1	345.4	348.6	367.5	398.0	413.6
65°	293.5	293.5	294.1	294.1	299.9	314.9	316.8	325.3	342.8	357.7	369.4
67.5°	268.8	267.5	268.8	265.5	268.1	277.2	287.0	294.8	312.9	323.3	327.2
70°	237.0	236.3	237.0	232.4	235.7	243.5	250.0	262.9	281.8	289.6	291.5
72.5°	205.8	205.8	207.1	203.9	203.9	212.3	216.8	231.1	248.7	253.2	253.9
75°	173.3	175.3	175.3	170.7	172.0	177.2	183.1	194.8	211.0	214.2	214.2
77.5°	137.6	144.8	144.8	140.2	142.2	142.8	150.6	156.5	168.8	170.1	164.9
80°	100.0	107.1	113.0	109.1	112.3	108.4	113.0	116.9	129.2	123.4	114.9
82.5°	71.4	76.6	81.2	81.8	78.6	71.4	77.3	77.9	83.8	76.0	71.4
85°	39.6	44.1	50.0	47.4	42.2	37.7	39.6	40.9	40.3	38.3	35.7
87.5°	10.4	11.0	12.3	9.1	8.4	7.1	9.7	9.7	11.0	11.7	11.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7
2.5°	2102.9	2131.5	2193.1	2239.9	2297.0	2366.5	2448.3	2530.7	2619.7	2647.6	2686.6
5°	1740.0	1811.4	1841.2	1926.3	2010.7	2137.3	2272.3	2428.8	2600.2	2682.7	2761.9
7.5°	1486.8	1525.1	1556.2	1618.6	1719.8	1873.7	2043.2	2238.6	2481.4	2601.5	2717.7
10°	1350.4	1354.3	1392.6	1469.9	1558.2	1693.9	1854.2	2073.0	2343.8	2489.8	2626.2
12.5°	1260.2	1243.3	1284.8	1365.4	1465.3	1590.6	1738.0	1946.4	2244.4	2394.4	2559.3
15°	1181.0	1154.3	1185.5	1268.0	1366.6	1514.0	1672.4	1893.2	2205.5	2380.1	2563.2
17.5°	1182.9	1109.6	1120.6	1190.1	1288.1	1438.1	1630.2	1891.2	2264.5	2465.8	2682.7
20°	1329.0	1211.5	1161.5	1174.5	1269.3	1432.9	1649.7	1982.1	2458.7	2752.1	2983.9
22.5°	1472.5	1401.7	1321.2	1294.6	1346.5	1517.9	1773.7	2197.0	2880.7	3322.8	3741.6
25°	1422.5	1482.9	1462.7	1425.1	1436.8	1579.0	1858.1	2373.6	3208.5	3706.5	4099.9
27.5°	1138.1	1247.8	1269.9	1269.3	1273.8	1390.7	1671.1	2254.8	3249.4	3779.9	4155.8
30°	799.9	809.6	821.3	844.0	864.8	969.3	1307.6	1979.5	3231.3	3813.0	4189.5
32.5°	577.2	590.2	606.4	637.6	686.9	820.0	1144.0	1891.9	3327.4	3950.0	4288.2
35°	527.8	542.8	558.3	594.1	640.8	764.2	1079.0	1855.5	3485.1	4172.0	4465.5
37.5°	512.2	529.1	542.8	568.7	606.4	723.9	1020.0	1830.9	3646.8	4407.0	4703.1
40°	501.2	520.7	531.7	552.5	578.5	686.9	967.4	1811.4	3803.2	4621.9	4894.0
42.5°	491.5	511.6	525.9	540.8	562.2	653.8	920.6	1791.9	3938.9	4830.3	5084.2
45°	479.8	505.1	523.3	535.0	553.8	625.9	884.9	1776.3	4093.5	5015.4	5276.4
47.5°	470.0	498.0	520.7	534.3	541.5	606.4	856.3	1797.7	4279.1	5208.8	5454.9
50°	470.7	497.3	525.9	547.3	528.5	590.2	838.8	1882.8	4520.7	5438.7	5595.8
52.5°	491.5	523.9	546.7	551.9	510.3	570.7	829.7	2031.5	4806.3	5641.9	5738.0
55°	514.8	548.6	573.3	570.0	500.6	546.0	827.8	2189.9	5119.3	5878.9	5923.0
57.5°	506.4	555.7	593.4	576.5	501.2	522.0	819.3	2317.8	5380.9	6056.1	6106.1
58°	503.8	553.2	596.0	575.2	499.3	514.8	817.4	2328.8	5417.3	6068.4	6132.1
60°	478.5	530.4	594.1	565.5	488.2	495.4	796.0	2364.5	5407.5	6004.8	6147.6
62.5°	432.4	475.2	549.3	518.1	454.5	469.4	747.9	2320.4	5143.9	5698.4	5919.8
65°	380.5	412.3	461.6	455.8	406.4	442.8	682.4	2145.7	4616.1	5201.1	5434.1
67.5°	341.5	367.5	398.6	390.2	365.5	407.1	611.6	1850.3	4024.0	4603.8	4897.2
70°	301.9	322.0	337.6	331.8	324.0	372.0	548.6	1501.7	3456.6	4036.3	4320.7
72.5°	261.6	280.5	293.5	285.0	280.5	335.0	497.3	1165.4	2730.1	3329.9	3695.5
75°	218.8	237.6	246.7	237.0	234.4	295.4	421.4	870.6	2048.4	2567.1	2882.6
77.5°	169.5	189.6	201.3	198.0	199.3	242.8	340.2	596.0	1464.7	1749.7	2082.1
80°	118.8	140.9	148.7	145.4	154.5	185.0	240.2	378.5	1010.2	1135.5	1369.9
82.5°	73.4	94.1	95.4	98.7	105.2	137.0	181.1	230.5	634.3	655.7	825.8
85°	37.0	44.8	48.0	53.2	59.1	83.8	103.2	142.8	408.4	309.0	461.6
87.5°	12.3	13.0	15.6	19.5	24.0	34.4	44.1	58.4	101.3	55.8	142.8
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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CATALOG NUMBER: GALN-SA3A-727-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7	2469.7
2.5°	2765.1	2820.3	2860.5	2897.6	2861.8	2858.6	2823.5	2767.1	2743.7	2743.7
5°	2928.1	3057.3	3161.8	3228.7	3200.1	3131.3	3017.7	2872.9	2795.0	2781.3
7.5°	2972.9	3228.0	3422.1	3491.0	3442.9	3291.0	3073.5	2829.4	2717.7	2693.0
10°	2945.6	3277.4	3562.4	3671.4	3604.6	3374.7	3078.0	2778.7	2641.1	2612.5
12.5°	2917.0	3283.9	3588.3	3746.1	3702.6	3442.3	3111.2	2745.6	2586.6	2545.7
15°	2937.8	3286.4	3556.5	3719.5	3747.4	3523.4	3165.7	2769.7	2575.5	2532.0
17.5°	3069.0	3335.8	3511.1	3642.9	3740.9	3633.8	3320.9	2884.6	2674.2	2620.3
20°	3342.9	3454.0	3537.1	3639.0	3796.8	3859.1	3638.3	3200.1	2951.4	2904.0
22.5°	4136.3	4116.2	3946.1	3944.1	4172.7	4422.6	4407.7	3841.5	3467.6	3428.6
25°	4433.7	4340.2	4094.1	4034.4	4135.0	4520.7	4464.8	3972.7	3627.3	3532.5
27.5°	4317.4	4085.7	3924.0	3910.4	3877.3	4241.5	4375.9	4025.9	3683.1	3590.9
30°	4310.3	3969.4	3738.3	3765.6	3797.4	4145.4	4425.2	4192.8	3826.0	3727.3
32.5°	4327.8	3985.7	3752.0	3757.1	3851.9	4159.7	4479.8	4374.6	4013.6	3914.9
35°	4398.6	4077.9	3839.0	3826.6	3974.6	4253.2	4572.6	4660.2	4270.0	4157.7
37.5°	4512.9	4261.6	3998.0	3994.8	4209.7	4422.0	4688.2	4948.5	4525.2	4404.4
40°	4681.0	4476.5	4281.1	4263.6	4529.1	4696.6	4838.1	5255.6	4821.9	4666.7
42.5°	4884.2	4734.3	4654.4	4723.9	4979.0	5005.0	5071.9	5539.3	5074.5	4894.0
45°	5072.5	5065.4	5176.4	5360.8	5509.4	5353.6	5316.0	5729.5	5270.5	5074.5
47.5°	5296.5	5490.0	5825.0	6095.1	6250.9	5759.4	5524.4	5853.5	5413.4	5232.9
50°	5523.7	5998.3	6533.3	6909.9	6943.0	6200.2	5667.9	5970.4	5543.2	5355.6
52.5°	5762.6	6404.1	7116.3	7553.9	7489.6	6583.9	5806.8	6049.6	5676.9	5512.0
55°	5970.4	6652.8	7442.2	7862.3	7768.1	6817.7	5956.8	6135.3	5867.8	5728.9
57.5°	6086.6	6673.5	7361.1	7727.9	7626.0	6772.2	6025.6	6198.9	5989.9	5880.8
58°	6103.5	6645.6	7289.0	7650.0	7546.1	6733.9	6024.9	6196.3	5997.7	5888.0
60°	6088.6	6464.5	7020.9	7342.2	7233.2	6493.7	6000.3	6147.6	5899.0	5806.1
62.5°	5950.3	6150.2	6558.0	6791.7	6760.5	6118.4	5899.0	5963.9	5598.4	5508.8
65°	5768.5	5721.7	5965.2	6130.8	6154.1	5837.3	5798.4	5566.6	5212.7	5086.1
67.5°	5547.8	5236.1	5235.5	5329.6	5368.6	5404.9	5588.7	5134.8	4657.0	4523.3
70°	5173.1	4487.5	4281.1	4392.1	4359.6	4666.7	5214.0	4528.4	3987.0	3830.5
72.5°	4486.2	3561.1	3230.6	3373.4	3291.6	3659.8	4562.2	3726.6	3296.8	3104.7
75°	3636.4	2663.8	2323.0	2454.1	2403.5	2776.1	3796.1	2706.7	2364.5	2291.2
77.5°	2823.5	1930.2	1732.2	1714.0	1751.6	2065.9	2784.6	1827.6	1558.8	1508.8
80°	1814.0	1381.6	1393.3	1369.9	1389.4	1302.4	1690.6	1166.0	1055.7	1015.4
82.5°	1194.0	962.8	1147.9	1059.6	1006.3	875.8	1108.9	763.5	647.9	625.9
85°	813.5	709.0	645.3	493.4	581.1	674.6	831.7	411.0	325.9	295.4
87.5°	367.5	246.7	181.1	111.7	176.6	203.9	403.8	48.0	37.0	38.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)