

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: P458760

Luminaire Tested: **GALN-SA3A-735-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458760
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-735-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 10962 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

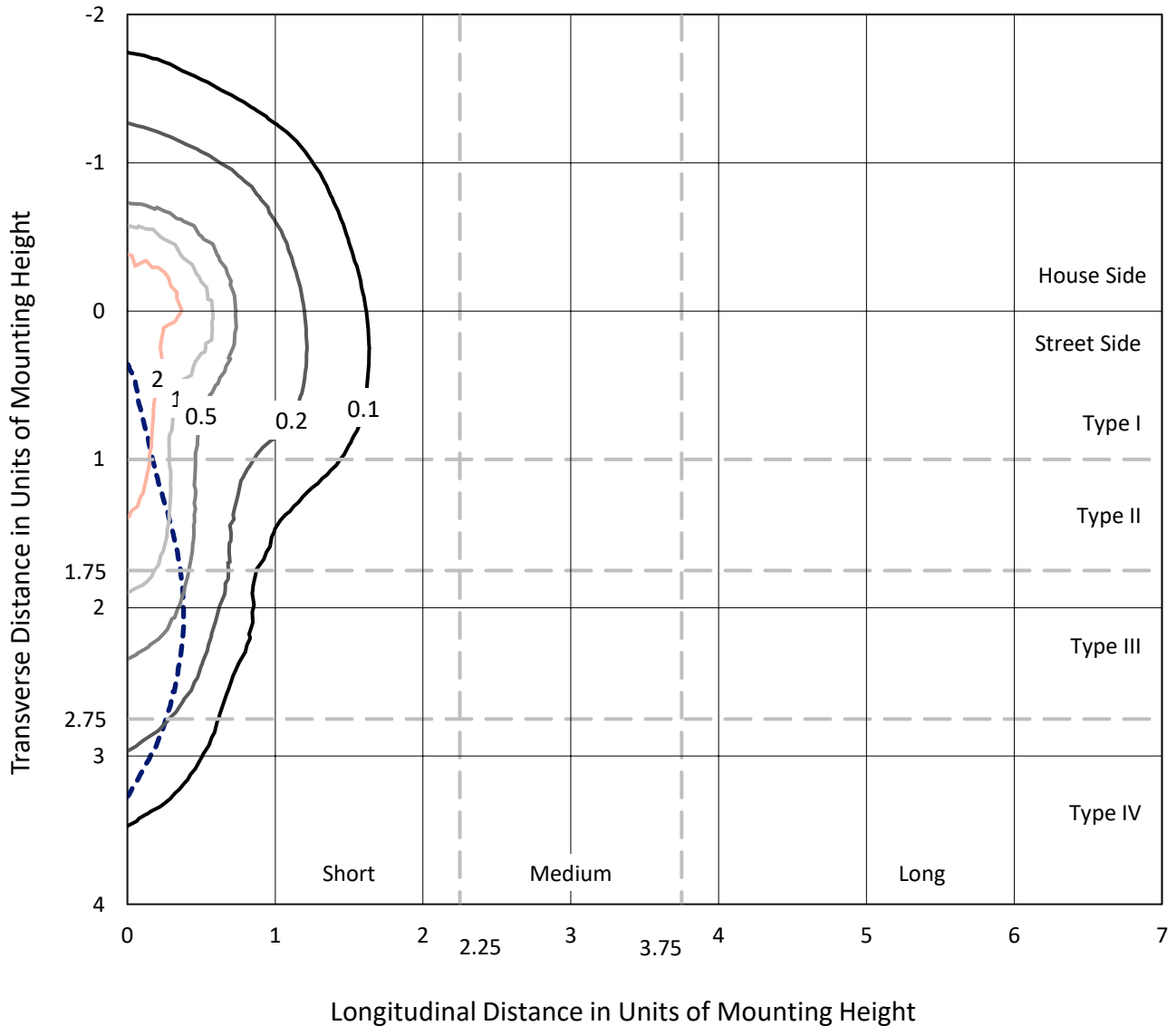
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

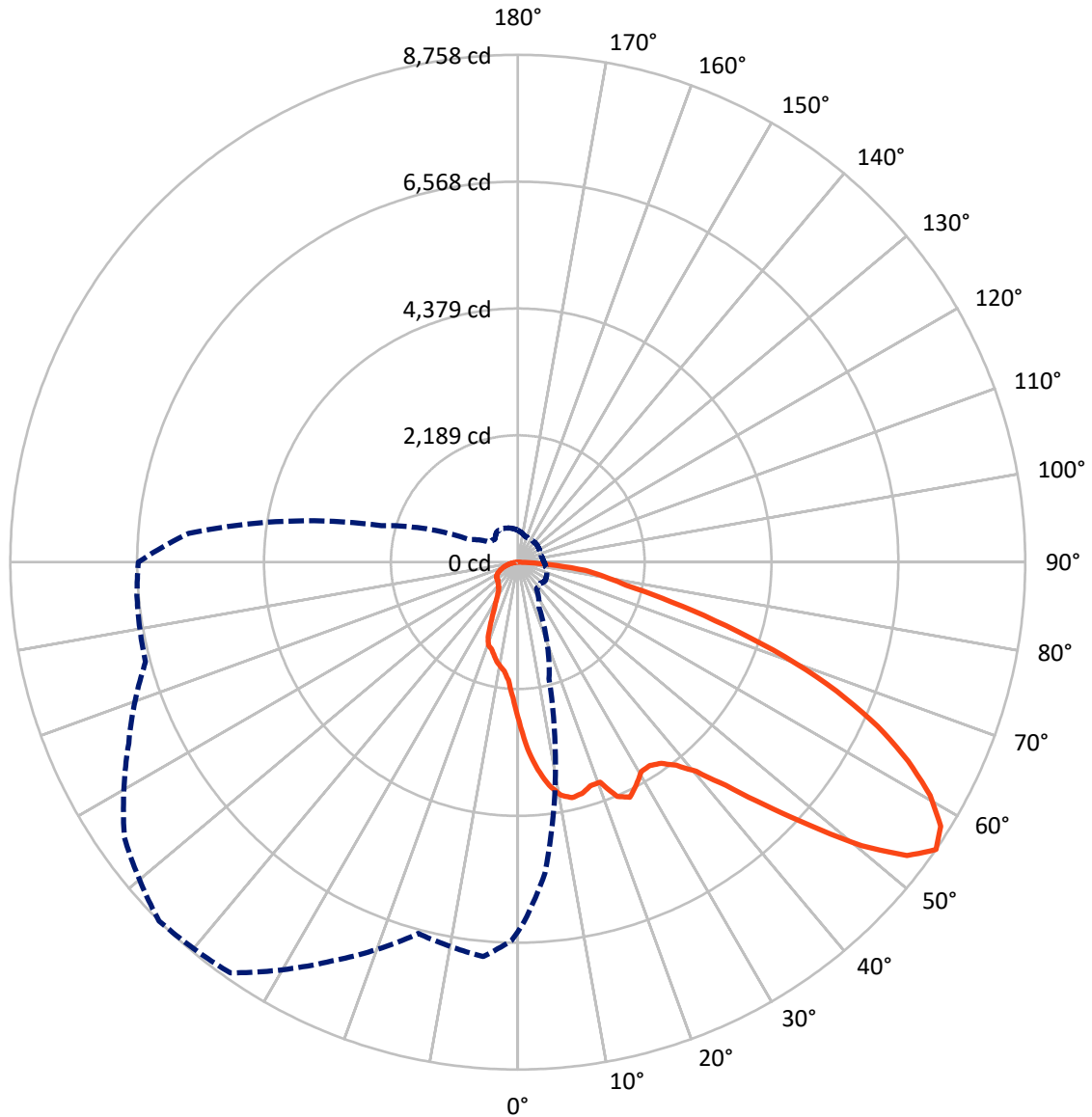
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2397.9	0.0	2397.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8564.1	0.0	8564.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	10962.0	0.0	10962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	2.1
10°-20°	618.6	5.6
20°-30°	1068.6	9.7
30°-40°	1241.9	11.3
40°-50°	1732.7	15.8
50°-60°	2351.1	21.4
60°-70°	2236.8	20.4
70°-80°	1208.4	11.0
80°-90°	270.8	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°	10962.0	100.0
0°-180°	10962.0	100.0

Coefficient of Utilization



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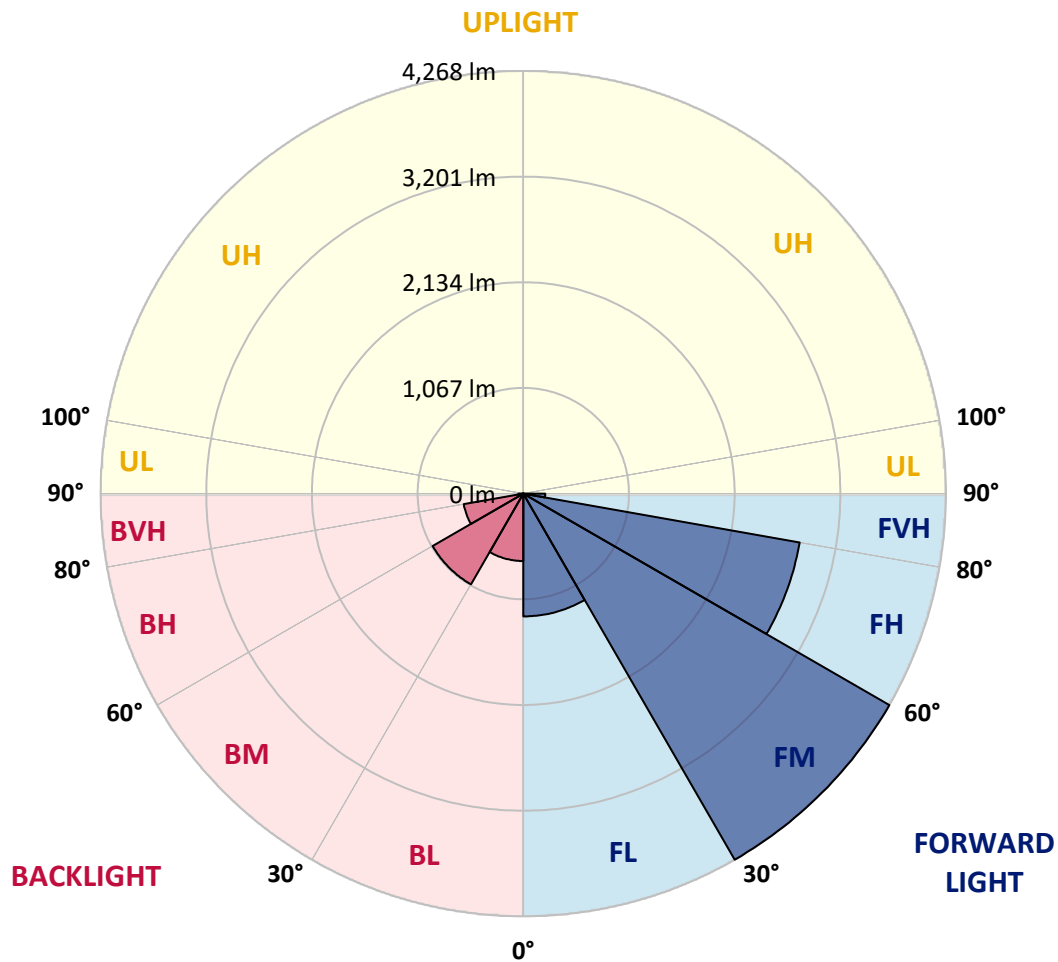
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1239.8	11.3			
FM	(30°-60°)	4268.4	38.9			
FH	(60°-80°)	2834.6	25.9			G2/5000
FVH	(80°-90°)	221.3	2.0			G2/225
BL	(0°-30°)	680.5	6.2	B2/1000		
BM	(30°-60°)	1057.3	9.6	B2/2500		
BH	(60°-80°)	610.6	5.6	B2/1000		G2/1000
BVH	(80°-90°)	49.5	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°	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0
2.5°	3056.2	3044.7	3012.1	2926.8	2840.7	2753.2	2685.9	2602.1	2514.5	2467.5	2407.5
5°	3098.2	3085.1	3008.5	2816.1	2641.8	2458.9	2312.8	2184.8	2132.7	2056.0	1994.6
7.5°	2999.8	2994.0	2879.0	2602.8	2364.1	2124.7	1959.1	1856.4	1763.1	1728.4	1735.7
10°	2910.1	2887.0	2743.1	2382.2	2103.8	1909.2	1790.6	1690.1	1624.3	1606.9	1610.6
12.5°	2835.6	2804.6	2634.6	2233.9	1990.2	1834.7	1683.6	1578.7	1518.7	1535.3	1591.8
15°	2820.5	2778.5	2589.0	2183.3	1928.0	1727.7	1562.1	1441.3	1396.5	1432.6	1523.0
17.5°	2918.8	2866.0	2667.1	2200.0	1868.7	1618.5	1415.3	1277.2	1239.6	1297.4	1415.3
20°	3234.9	3156.7	2910.9	2296.1	1863.0	1564.3	1330.0	1191.1	1207.0	1316.9	1439.9
22.5°	3819.2	3702.0	3337.5	2436.4	1893.3	1550.5	1312.6	1240.3	1327.8	1421.1	1502.1
25°	3934.9	3843.1	3414.2	2468.3	1886.8	1541.1	1361.8	1397.9	1495.6	1541.9	1513.6
27.5°	4000.0	3895.1	3409.1	2310.6	1687.2	1397.9	1301.8	1361.8	1386.4	1341.5	1264.9
30°	4151.9	4042.7	3495.2	2145.0	1389.3	1037.1	909.1	884.5	901.1	909.8	882.3
32.5°	4360.9	4253.1	3657.2	2036.5	1201.2	857.7	731.9	697.2	689.2	679.8	669.0
35°	4631.3	4465.7	3816.3	1967.1	1123.8	793.3	677.6	650.9	640.0	627.0	615.4
37.5°	4906.2	4732.6	4017.3	1894.0	1072.5	748.5	641.5	629.2	610.4	596.6	580.0
40°	5198.3	5003.8	4200.3	1830.4	1022.6	719.6	615.4	614.0	589.4	573.5	554.0
42.5°	5451.4	5251.1	4363.8	1791.4	984.3	689.2	599.5	603.9	578.6	554.7	529.4
45°	5652.5	5455.8	4514.9	1791.4	953.2	658.8	596.6	593.7	568.4	538.8	509.9
47.5°	5829.0	5625.7	4662.4	1836.9	933.6	633.5	580.7	585.8	559.8	522.1	493.9
50°	5965.6	5786.3	4861.3	1907.8	914.1	613.3	560.5	588.0	552.5	513.5	480.9
52.5°	6139.9	5979.4	5100.7	2004.7	897.5	590.9	542.4	588.0	551.8	514.2	478.8
55°	6381.5	6212.2	5389.2	2085.0	870.7	569.9	526.5	571.3	549.6	510.6	473.0
57.5°	6550.7	6424.1	5593.2	2138.5	832.4	543.1	512.0	555.4	540.2	496.8	455.6
58°	6558.7	6435.0	5622.8	2150.8	823.0	538.1	508.4	548.2	535.9	491.0	449.8
60°	6467.5	6361.2	5628.6	2133.4	769.5	512.7	489.6	518.5	512.7	457.1	418.7
62.5°	6136.3	6022.8	5395.0	1992.4	698.6	481.6	460.7	478.8	465.7	409.3	373.9
65°	5665.5	5456.5	4914.8	1771.1	648.0	448.4	421.6	423.1	409.3	368.8	337.7
67.5°	5038.5	4804.9	4161.3	1492.7	609.7	411.5	375.3	371.7	355.1	329.1	303.7
70°	4266.9	4107.0	3381.7	1214.2	567.0	371.0	323.3	321.1	311.0	291.4	269.0
72.5°	3458.3	3255.1	2730.8	972.0	514.9	331.9	274.8	279.2	266.1	252.4	232.1
75°	2552.2	2419.1	2111.0	779.6	444.8	289.3	229.3	230.7	224.9	210.4	194.5
77.5°	1680.7	1640.9	1510.0	512.0	342.1	230.0	187.3	188.8	184.4	171.4	154.8
80°	1131.1	1104.3	1023.3	329.8	228.5	166.3	144.6	146.1	145.4	131.6	109.2
82.5°	697.2	685.6	659.6	222.7	158.4	119.3	95.5	99.8	107.8	92.6	74.5
85°	329.1	329.8	398.5	121.5	93.3	76.7	52.1	55.7	55.7	55.7	41.9
87.5°	42.7	44.8	55.0	51.3	34.0	28.9	18.8	15.9	13.7	18.1	13.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0
2.5°	2386.5	2372.1	2341.0	2333.8	2329.4	2341.7	2309.2	2317.8	2303.4	2343.9	2337.4
5°	1998.2	1999.6	2024.9	2041.6	2047.4	2041.6	2019.9	1982.3	1953.3	1941.8	1944.7
7.5°	1721.9	1747.2	1790.6	1839.1	1883.2	1896.2	1883.9	1812.3	1734.2	1685.0	1669.1
10°	1630.1	1664.1	1714.0	1752.3	1791.4	1822.5	1829.0	1773.3	1680.7	1564.3	1518.7
12.5°	1635.1	1681.4	1729.2	1741.5	1737.8	1750.1	1744.3	1734.9	1674.2	1525.9	1450.0
15°	1587.4	1642.4	1675.6	1669.1	1657.6	1646.7	1631.5	1607.7	1586.0	1481.8	1397.9
17.5°	1477.5	1533.9	1561.4	1563.5	1563.5	1560.7	1523.8	1515.1	1512.2	1461.6	1410.2
20°	1497.7	1528.8	1516.5	1496.3	1502.1	1521.6	1499.9	1495.6	1512.2	1534.6	1525.2
22.5°	1509.3	1498.5	1405.9	1316.2	1296.0	1356.7	1369.0	1417.5	1484.7	1565.7	1618.5
25°	1437.7	1350.2	1184.6	1083.3	1026.2	1082.6	1156.4	1246.1	1346.6	1450.7	1512.2
27.5°	1202.0	1135.4	1016.8	925.7	875.8	884.5	947.4	1029.1	1122.4	1192.5	1237.4
30°	905.4	875.8	814.3	783.2	752.8	745.6	772.4	803.5	844.7	853.4	864.9
32.5°	666.8	662.4	666.1	655.9	650.2	649.4	641.5	648.7	653.0	658.1	648.0
35°	603.1	597.4	587.2	584.3	580.7	582.2	578.6	574.9	577.8	582.2	585.1
37.5°	570.6	561.9	547.5	542.4	542.4	544.6	538.8	537.3	542.4	556.1	563.4
40°	545.3	535.2	518.5	512.0	516.4	522.1	514.2	511.3	523.6	538.1	549.6
42.5°	521.4	513.5	497.6	490.3	493.9	504.8	493.2	491.0	507.0	522.9	536.6
45°	501.2	493.2	478.8	475.1	476.6	486.7	478.8	478.8	493.9	511.3	523.6
47.5°	485.3	475.1	465.7	462.8	464.3	470.1	468.6	468.6	483.1	501.2	513.5
50°	469.4	460.7	448.4	449.8	453.4	461.4	460.7	462.8	477.3	499.7	512.7
52.5°	462.1	449.1	435.4	436.8	447.7	457.1	454.2	456.3	473.0	514.9	533.7
55°	454.2	436.8	420.9	423.1	435.4	449.1	445.5	448.4	467.9	525.0	551.1
57.5°	439.0	418.7	401.4	402.8	420.9	435.4	429.6	433.2	456.3	514.2	541.7
58°	432.5	415.1	398.5	399.2	416.6	432.5	426.0	428.9	452.7	511.3	537.3
60°	405.0	394.9	380.4	381.1	397.8	411.5	407.9	410.8	433.9	490.3	509.9
62.5°	367.4	361.6	358.0	358.0	368.1	381.1	384.7	388.4	409.3	443.3	460.7
65°	326.9	326.9	327.6	327.6	334.1	350.7	352.9	362.3	381.8	398.5	411.5
67.5°	299.4	298.0	299.4	295.8	298.7	308.8	319.7	328.3	348.6	360.2	364.5
70°	264.0	263.2	264.0	258.9	262.5	271.2	278.4	292.9	313.9	322.5	324.7
72.5°	229.3	229.3	230.7	227.1	227.1	236.5	241.5	257.5	277.0	282.0	282.8
75°	193.1	195.3	195.3	190.2	191.6	197.4	203.9	217.0	235.0	238.7	238.7
77.5°	153.3	161.3	161.3	156.2	158.4	159.1	167.8	174.3	188.0	189.5	183.7
80°	111.4	119.3	125.8	121.5	125.1	120.8	125.8	130.2	143.9	137.4	128.0
82.5°	79.6	85.3	90.4	91.1	87.5	79.6	86.1	86.8	93.3	84.6	79.6
85°	44.1	49.2	55.7	52.8	47.0	41.9	44.1	45.6	44.8	42.7	39.8
87.5°	11.6	12.3	13.7	10.1	9.4	8.0	10.8	10.8	12.3	13.0	12.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0
2.5°	2342.4	2374.2	2443.0	2495.0	2558.7	2636.0	2727.2	2819.0	2918.1	2949.2	2992.6
5°	1938.2	2017.7	2051.0	2145.7	2239.7	2380.8	2531.2	2705.5	2896.4	2988.2	3076.5
7.5°	1656.1	1698.8	1733.5	1802.9	1915.7	2087.1	2275.9	2493.6	2764.1	2897.8	3027.3
10°	1504.2	1508.6	1551.3	1637.3	1735.7	1886.8	2065.4	2309.2	2610.7	2773.5	2925.3
12.5°	1403.7	1384.9	1431.2	1520.9	1632.3	1771.8	1936.0	2168.1	2500.1	2667.1	2850.8
15°	1315.5	1285.8	1320.6	1412.4	1522.3	1686.5	1863.0	2108.8	2456.7	2651.2	2855.2
17.5°	1317.7	1235.9	1248.2	1325.6	1434.8	1601.9	1815.9	2106.7	2522.5	2746.7	2988.2
20°	1480.4	1349.5	1293.8	1308.3	1413.8	1596.1	1837.6	2207.9	2738.7	3065.6	3323.8
22.5°	1640.2	1561.4	1471.7	1442.1	1499.9	1690.8	1975.8	2447.3	3208.8	3701.3	4167.8
25°	1584.5	1651.8	1629.4	1587.4	1600.4	1758.8	2069.8	2644.0	3574.0	4128.7	4567.0
27.5°	1267.8	1390.0	1414.6	1413.8	1418.9	1549.1	1861.5	2511.7	3619.6	4210.4	4629.2
30°	891.0	901.8	914.8	940.2	963.3	1079.7	1456.5	2205.0	3599.3	4247.3	4666.8
32.5°	642.9	657.4	675.5	710.2	765.1	913.4	1274.3	2107.4	3706.4	4399.9	4776.7
35°	588.0	604.6	621.9	661.7	713.8	851.2	1202.0	2066.9	3882.1	4647.3	4974.1
37.5°	570.6	589.4	604.6	633.5	675.5	806.4	1136.1	2039.4	4062.2	4909.0	5238.8
40°	558.3	580.0	592.3	615.4	644.4	765.1	1077.6	2017.7	4236.5	5148.4	5451.4
42.5°	547.5	569.9	585.8	602.4	626.3	728.3	1025.5	1996.0	4387.6	5380.6	5663.3
45°	534.4	562.6	582.9	595.9	616.9	697.2	985.7	1978.7	4559.7	5586.7	5877.4
47.5°	523.6	554.7	580.0	595.2	603.1	675.5	953.9	2002.5	4766.6	5802.2	6076.3
50°	524.3	554.0	585.8	609.7	588.7	657.4	934.4	2097.3	5035.6	6058.2	6233.2
52.5°	547.5	583.6	608.9	614.7	568.4	635.7	924.2	2262.9	5353.8	6284.6	6391.6
55°	573.5	611.1	638.6	635.0	557.6	608.2	922.1	2439.3	5702.4	6548.5	6597.7
57.5°	564.1	619.1	661.0	642.2	558.3	581.4	912.7	2581.8	5993.8	6746.0	6801.6
58°	561.2	616.2	663.9	640.8	556.1	573.5	910.5	2594.1	6034.3	6759.7	6830.6
60°	533.0	590.9	661.7	629.9	543.8	551.8	886.6	2633.9	6023.5	6688.8	6847.9
62.5°	481.6	529.4	611.8	577.1	506.2	522.9	833.1	2584.7	5729.9	6347.5	6594.1
65°	423.8	459.2	514.2	507.7	452.7	493.2	760.1	2390.2	5141.9	5793.5	6053.1
67.5°	380.4	409.3	444.0	434.6	407.2	453.4	681.2	2061.1	4482.4	5128.2	5455.1
70°	336.3	358.7	376.1	369.6	360.9	414.4	611.1	1672.8	3850.3	4496.1	4812.9
72.5°	291.4	312.4	326.9	317.5	312.4	373.2	554.0	1298.1	3041.0	3709.3	4116.4
75°	243.7	264.7	274.8	264.0	261.1	329.1	469.4	969.8	2281.7	2859.5	3211.0
77.5°	188.8	211.2	224.2	220.6	222.0	270.5	379.0	663.9	1631.5	1949.0	2319.3
80°	132.3	156.9	165.6	162.0	172.1	206.1	267.6	421.6	1125.3	1264.9	1525.9
82.5°	81.7	104.9	106.3	109.9	117.2	152.6	201.8	256.7	706.6	730.4	919.9
85°	41.2	49.9	53.5	59.3	65.8	93.3	115.0	159.1	454.9	344.2	514.2
87.5°	13.7	14.5	17.4	21.7	26.8	38.3	49.2	65.1	112.8	62.2	159.1
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-735-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0
2.5°	3080.1	3141.6	3186.4	3227.6	3187.8	3184.2	3145.2	3082.3	3056.2	3056.2
5°	3261.6	3405.5	3522.0	3596.4	3564.6	3488.0	3361.4	3200.1	3113.4	3098.2
7.5°	3311.5	3595.7	3812.0	3888.6	3835.1	3665.9	3423.6	3151.7	3027.3	2999.8
10°	3281.1	3650.7	3968.2	4089.7	4015.2	3759.2	3428.7	3095.3	2942.0	2910.1
12.5°	3249.3	3657.9	3997.1	4172.8	4124.4	3834.4	3465.6	3058.4	2881.2	2835.6
15°	3272.5	3660.8	3961.7	4143.2	4174.3	3924.8	3526.3	3085.1	2868.9	2820.5
17.5°	3418.5	3715.8	3911.0	4057.8	4167.0	4047.7	3699.1	3213.2	2978.8	2918.8
20°	3723.7	3847.4	3940.0	4053.5	4229.2	4298.7	4052.8	3564.6	3287.6	3234.9
22.5°	4607.5	4585.1	4395.6	4393.4	4648.0	4926.4	4909.8	4279.1	3862.6	3819.2
25°	4938.7	4834.6	4560.5	4493.9	4606.0	5035.6	4973.4	4425.2	4040.5	3934.9
27.5°	4809.2	4551.1	4371.0	4355.8	4318.9	4724.6	4874.3	4484.5	4102.7	4000.0
30°	4801.3	4421.6	4164.2	4194.5	4230.0	4617.6	4929.3	4670.4	4261.8	4151.9
32.5°	4820.8	4439.7	4179.3	4185.1	4290.7	4633.5	4990.0	4872.9	4470.8	4360.9
35°	4899.6	4542.4	4276.3	4262.5	4427.4	4737.7	5093.5	5191.1	4756.5	4631.3
37.5°	5026.9	4747.1	4453.4	4449.8	4689.2	4925.7	5222.2	5512.2	5040.7	4906.2
40°	5214.2	4986.4	4768.7	4749.2	5045.0	5231.6	5389.2	5854.3	5371.2	5198.3
42.5°	5440.6	5273.5	5184.6	5262.0	5546.2	5575.1	5649.6	6170.3	5652.5	5451.4
45°	5650.3	5642.4	5766.0	5971.4	6137.0	5963.5	5921.5	6382.2	5870.9	5652.5
47.5°	5899.8	6115.3	6488.5	6789.4	6962.9	6415.5	6153.7	6520.3	6030.0	5829.0
50°	6152.9	6681.6	7277.5	7697.0	7733.8	6906.5	6313.5	6650.5	6174.6	5965.6
52.5°	6419.1	7133.6	7926.9	8414.4	8342.8	7333.9	6468.3	6738.7	6323.6	6139.9
55°	6650.5	7410.6	8290.0	8757.9	8653.0	7594.3	6635.3	6834.2	6536.2	6381.5
57.5°	6780.0	7433.7	8199.6	8608.2	8494.6	7543.6	6712.0	6905.1	6672.2	6550.7
58°	6798.8	7402.6	8119.3	8521.4	8405.7	7501.0	6711.2	6902.2	6680.9	6558.7
60°	6782.1	7200.9	7820.6	8178.6	8057.1	7233.4	6683.8	6847.9	6570.9	6467.5
62.5°	6628.1	6850.8	7305.0	7565.3	7530.6	6815.4	6570.9	6643.3	6236.1	6136.3
65°	6425.6	6373.5	6644.7	6829.1	6855.2	6502.2	6458.9	6200.7	5806.5	5665.5
67.5°	6179.7	5832.6	5831.8	5936.7	5980.1	6020.6	6225.3	5719.7	5187.5	5038.5
70°	5762.4	4998.7	4768.7	4892.4	4856.3	5198.3	5808.0	5044.3	4441.1	4266.9
72.5°	4997.3	3966.7	3598.6	3757.7	3666.6	4076.7	5081.9	4151.1	3672.4	3458.3
75°	4050.6	2967.3	2587.6	2733.7	2677.3	3092.4	4228.5	3015.0	2633.9	2552.2
77.5°	3145.2	2150.1	1929.5	1909.2	1951.2	2301.2	3101.8	2035.8	1736.4	1680.7
80°	2020.6	1539.0	1552.0	1525.9	1547.6	1450.7	1883.2	1298.9	1175.9	1131.1
82.5°	1330.0	1072.5	1278.6	1180.3	1121.0	975.6	1235.2	850.5	721.7	697.2
85°	906.2	789.7	718.9	549.6	647.3	751.4	926.4	457.8	363.0	329.1
87.5°	409.3	274.8	201.8	124.4	196.7	227.1	449.8	53.5	41.2	42.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)