

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: P458644

Luminaire Tested: **GALN-SA2A-735-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458644
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-SA2A-735-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 7384 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

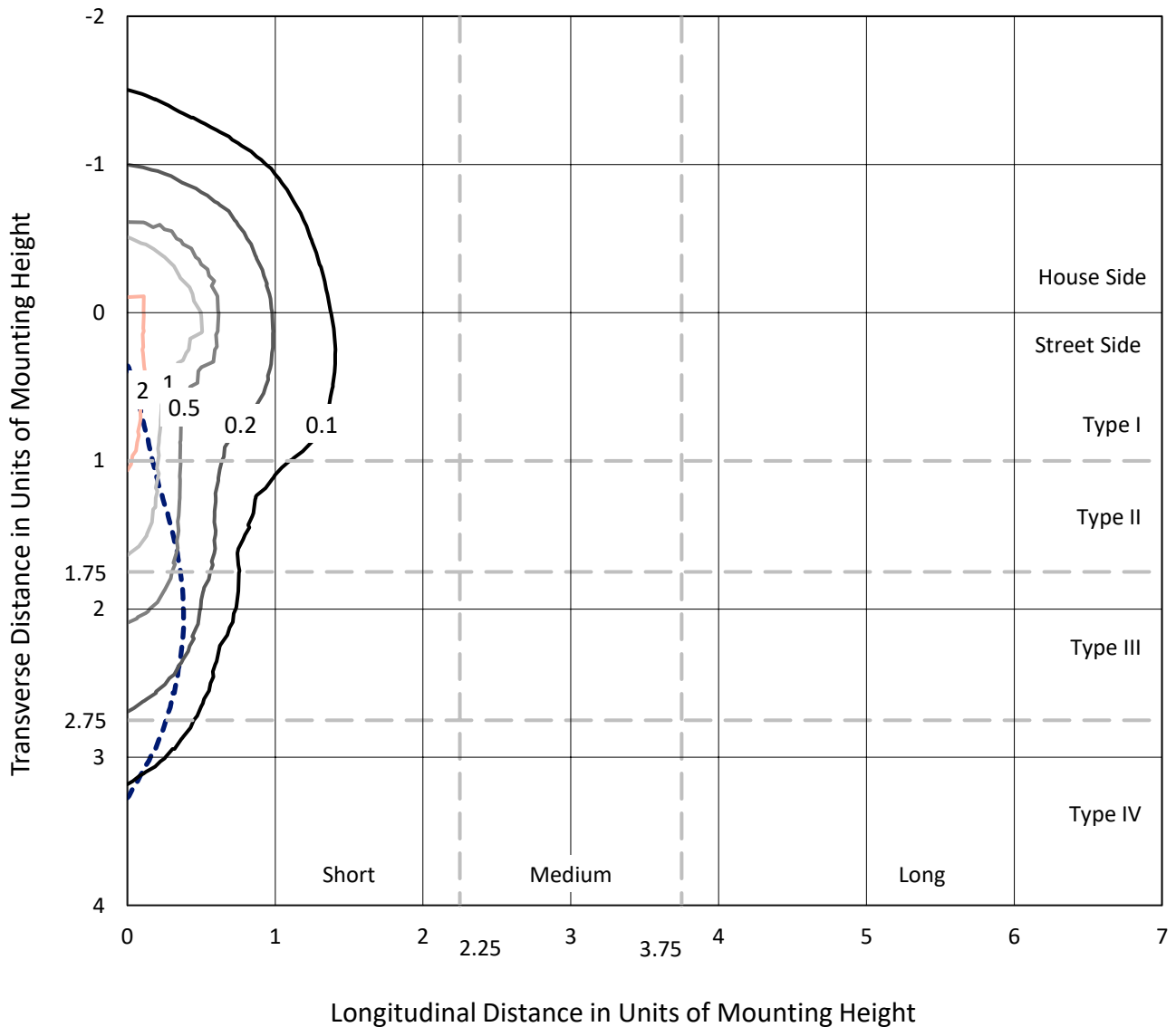
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

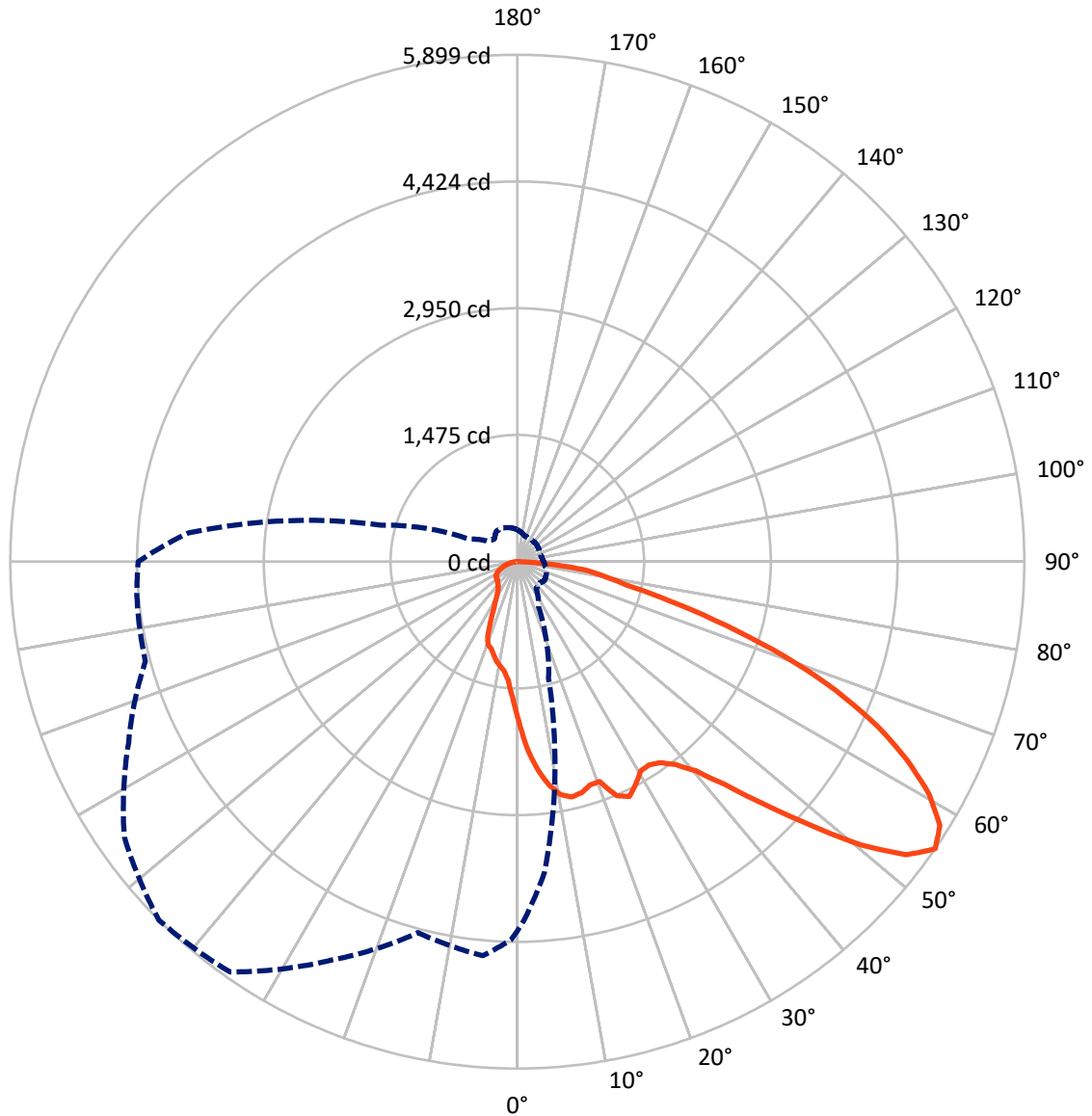
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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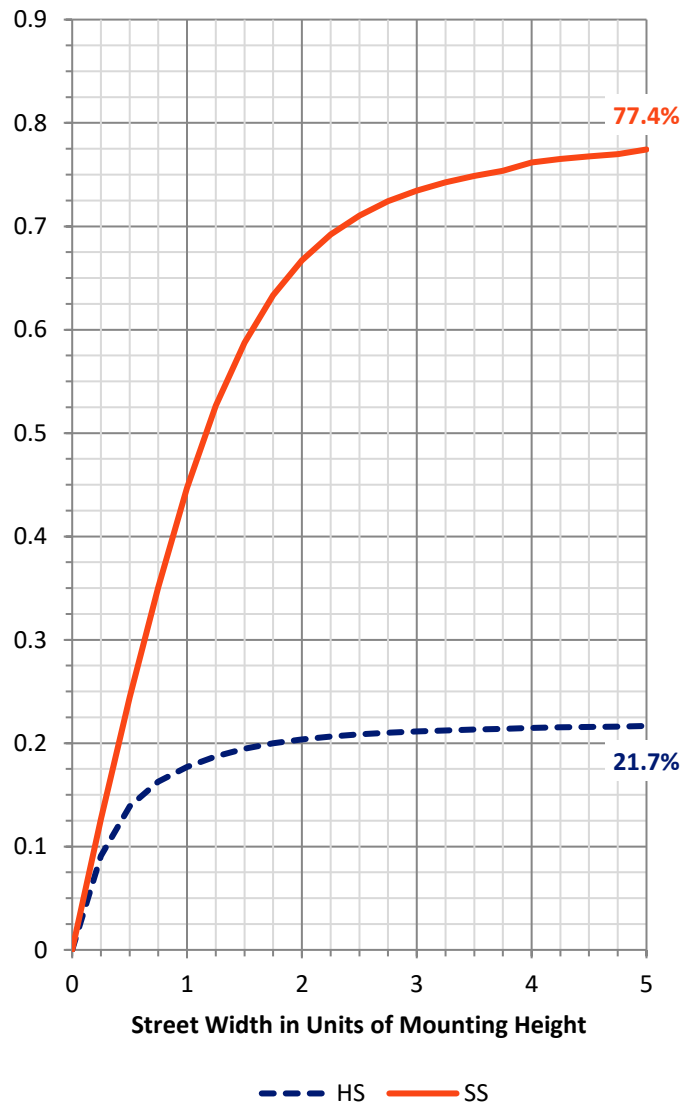
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1615.2	0.0	1615.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5768.8	0.0	5768.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	7384.0	0.0	7384.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	2.1
10°-20°	416.7	5.6
20°-30°	719.8	9.7
30°-40°	836.5	11.3
40°-50°	1167.1	15.8
50°-60°	1583.7	21.4
60°-70°	1506.7	20.4
70°-80°	814.0	11.0
80°-90°	182.4	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°	7384.0	100.0
0°-180°	7384.0	100.0



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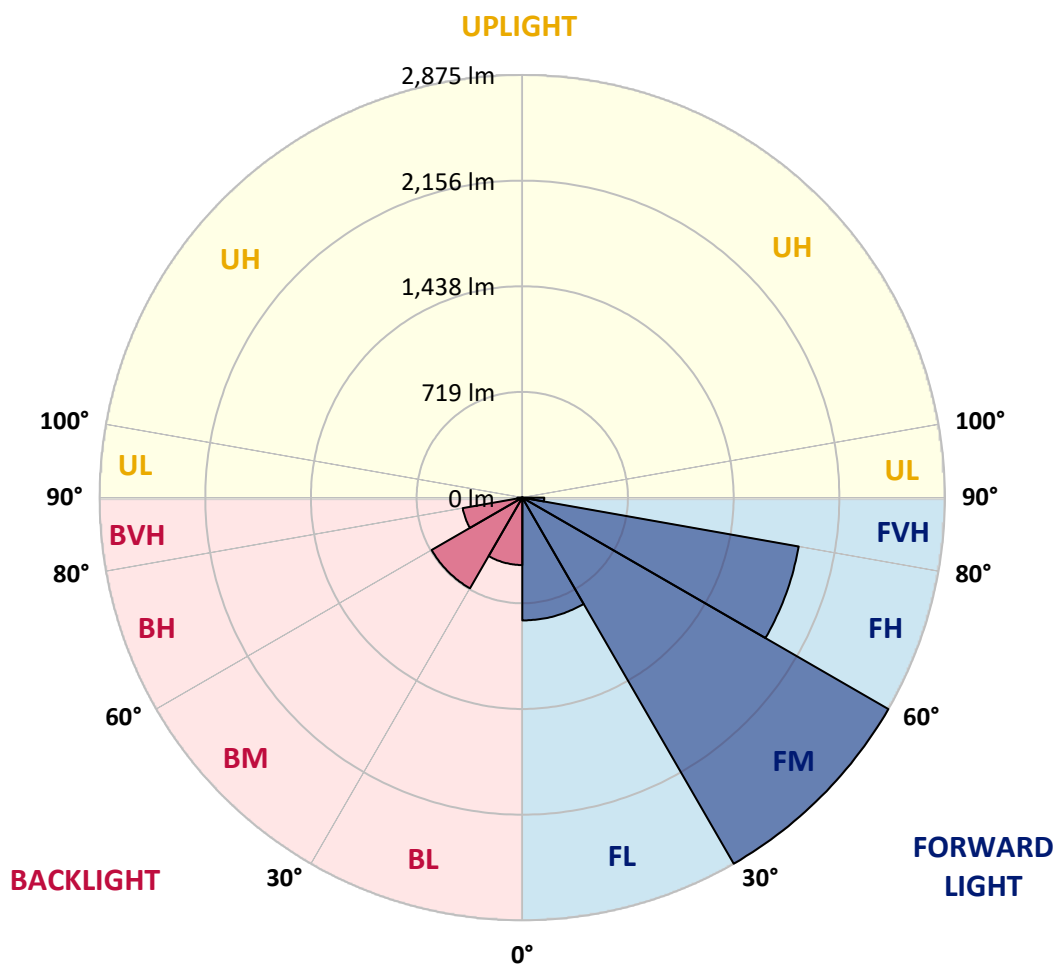
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.1	11.3			
FM (30°-60°)	2875.2	38.9			
FH (60°-80°)	1909.4	25.9			G2/5000
FVH (80°-90°)	149.1	2.0			G2/225
BL (0°-30°)	458.4	6.2	B1/500		
BM (30°-60°)	712.2	9.6	B1/1000		
BH (60°-80°)	411.3	5.6	B1/500		G1/500
BVH (80°-90°)	33.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1
2.5°	2058.7	2050.9	2029.0	1971.5	1913.5	1854.6	1809.3	1752.7	1693.8	1662.1	1621.7
5°	2086.9	2078.2	2026.5	1896.9	1779.5	1656.3	1557.9	1471.7	1436.6	1385.0	1343.5
7.5°	2020.7	2016.8	1939.3	1753.2	1592.5	1431.2	1319.7	1250.5	1187.7	1164.3	1169.1
10°	1960.3	1944.7	1847.7	1604.7	1417.1	1286.1	1206.2	1138.5	1094.1	1082.4	1084.9
12.5°	1910.1	1889.1	1774.7	1504.8	1340.6	1235.9	1134.1	1063.4	1023.0	1034.2	1072.2
15°	1899.9	1871.6	1744.0	1470.7	1298.7	1163.8	1052.2	970.9	940.7	965.0	1025.9
17.5°	1966.1	1930.6	1796.6	1481.9	1258.8	1090.2	953.3	860.3	835.0	873.9	953.3
20°	2179.0	2126.4	1960.8	1546.7	1254.9	1053.7	895.9	802.3	813.0	887.1	969.9
22.5°	2572.6	2493.7	2248.2	1641.2	1275.3	1044.4	884.2	835.5	894.4	957.2	1011.8
25°	2650.6	2588.7	2299.8	1662.6	1271.0	1038.1	917.3	941.6	1007.4	1038.6	1019.6
27.5°	2694.4	2623.8	2296.4	1556.4	1136.5	941.6	876.9	917.3	933.9	903.7	852.0
30°	2796.7	2723.1	2354.4	1444.9	935.8	698.6	612.3	595.8	607.0	612.8	594.3
32.5°	2937.5	2864.9	2463.5	1371.8	809.1	577.8	493.0	469.6	464.2	457.9	450.6
35°	3119.7	3008.1	2570.7	1325.0	757.0	534.4	456.5	438.4	431.1	422.4	414.6
37.5°	3304.8	3187.9	2706.1	1275.8	722.4	504.2	432.1	423.8	411.1	401.9	390.7
40°	3501.6	3370.5	2829.3	1233.0	688.8	484.7	414.6	413.6	397.0	386.3	373.2
42.5°	3672.1	3537.2	2939.4	1206.7	663.0	464.2	403.8	406.8	389.7	373.6	356.6
45°	3807.5	3675.0	3041.2	1206.7	642.1	443.8	401.9	399.9	382.9	362.9	343.4
47.5°	3926.4	3789.5	3140.6	1237.3	628.9	426.7	391.2	394.6	377.0	351.7	332.7
50°	4018.5	3897.6	3274.6	1285.1	615.7	413.1	377.5	396.0	372.2	345.9	324.0
52.5°	4135.9	4027.7	3435.8	1350.4	604.5	398.0	365.4	396.0	371.7	346.4	322.5
55°	4298.6	4184.6	3630.2	1404.4	586.5	383.9	354.6	384.8	370.2	343.9	318.6
57.5°	4412.5	4327.3	3767.6	1440.5	560.7	365.8	344.9	374.1	363.9	334.7	306.9
58°	4417.9	4334.6	3787.5	1448.8	554.4	362.4	342.5	369.3	361.0	330.8	303.0
60°	4356.5	4284.9	3791.4	1437.1	518.3	345.4	329.8	349.3	345.4	307.9	282.1
62.5°	4133.4	4056.9	3634.1	1342.1	470.6	324.4	310.3	322.5	313.7	275.7	251.9
65°	3816.3	3675.5	3310.6	1193.0	436.5	302.0	284.0	285.0	275.7	248.4	227.5
67.5°	3393.9	3236.6	2803.0	1005.5	410.7	277.2	252.8	250.4	239.2	221.7	204.6
70°	2874.1	2766.5	2277.9	817.9	381.9	249.9	217.8	216.3	209.5	196.3	181.2
72.5°	2329.5	2192.6	1839.5	654.7	346.8	223.6	185.1	188.0	179.3	170.0	156.4
75°	1719.1	1629.5	1422.0	525.1	299.6	194.9	154.4	155.4	151.5	141.8	131.0
77.5°	1132.1	1105.3	1017.2	344.9	230.4	154.9	126.2	127.1	124.2	115.5	104.2
80°	761.9	743.9	689.3	222.1	153.9	112.0	97.4	98.4	97.9	88.7	73.6
82.5°	469.6	461.8	444.3	150.0	106.7	80.4	64.3	67.2	72.6	62.4	50.2
85°	221.7	222.1	268.4	81.8	62.8	51.6	35.1	37.5	37.5	37.5	28.3
87.5°	28.7	30.2	37.0	34.6	22.9	19.5	12.7	10.7	9.3	12.2	8.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1
2.5°	1607.6	1597.8	1576.9	1572.0	1569.1	1577.4	1555.5	1561.3	1551.6	1578.8	1574.4
5°	1346.0	1347.0	1364.0	1375.2	1379.1	1375.2	1360.6	1335.3	1315.8	1308.0	1309.9
7.5°	1159.9	1176.9	1206.2	1238.8	1268.5	1277.3	1269.0	1220.8	1168.2	1135.0	1124.3
10°	1098.0	1120.9	1154.5	1180.3	1206.7	1227.6	1232.0	1194.5	1132.1	1053.7	1023.0
12.5°	1101.4	1132.6	1164.8	1173.0	1170.6	1178.9	1175.0	1168.7	1127.7	1027.9	976.7
15°	1069.3	1106.3	1128.7	1124.3	1116.5	1109.2	1099.0	1082.9	1068.3	998.2	941.6
17.5°	995.2	1033.2	1051.7	1053.2	1053.2	1051.3	1026.4	1020.6	1018.6	984.5	949.9
20°	1008.9	1029.8	1021.5	1007.9	1011.8	1025.0	1010.3	1007.4	1018.6	1033.7	1027.4
22.5°	1016.7	1009.4	947.0	886.6	873.0	913.9	922.2	954.8	1000.1	1054.7	1090.2
25°	968.4	909.5	797.9	729.7	691.3	729.3	778.9	839.3	907.1	977.2	1018.6
27.5°	809.6	764.8	684.9	623.5	589.9	595.8	638.2	693.2	756.0	803.3	833.5
30°	609.9	589.9	548.5	527.6	507.1	502.2	520.3	541.2	569.0	574.8	582.6
32.5°	449.1	446.2	448.7	441.8	437.9	437.5	432.1	437.0	439.9	443.3	436.5
35°	406.3	402.4	395.6	393.6	391.2	392.2	389.7	387.3	389.2	392.2	394.1
37.5°	384.4	378.5	368.8	365.4	365.4	366.8	362.9	361.9	365.4	374.6	379.5
40°	367.3	360.5	349.3	344.9	347.8	351.7	346.4	344.4	352.7	362.4	370.2
42.5°	351.2	345.9	335.2	330.3	332.7	340.0	332.2	330.8	341.5	352.2	361.5
45°	337.6	332.2	322.5	320.1	321.0	327.8	322.5	322.5	332.7	344.4	352.7
47.5°	326.9	320.1	313.7	311.8	312.7	316.6	315.7	315.7	325.4	337.6	345.9
50°	316.2	310.3	302.0	303.0	305.4	310.8	310.3	311.8	321.5	336.6	345.4
52.5°	311.3	302.5	293.3	294.2	301.5	307.9	305.9	307.4	318.6	346.8	359.5
55°	305.9	294.2	283.5	285.0	293.3	302.5	300.1	302.0	315.2	353.7	371.2
57.5°	295.7	282.1	270.4	271.3	283.5	293.3	289.4	291.8	307.4	346.4	364.9
58°	291.3	279.6	268.4	268.9	280.6	291.3	286.9	288.9	305.0	344.4	361.9
60°	272.8	266.0	256.2	256.7	267.9	277.2	274.7	276.7	292.3	330.3	343.4
62.5°	247.5	243.6	241.1	241.1	248.0	256.7	259.2	261.6	275.7	298.6	310.3
65°	220.2	220.2	220.7	220.7	225.1	236.3	237.7	244.1	257.2	268.4	277.2
67.5°	201.7	200.7	201.7	199.2	201.2	208.0	215.3	221.2	234.8	242.6	245.5
70°	177.8	177.3	177.8	174.4	176.8	182.7	187.6	197.3	211.4	217.3	218.7
72.5°	154.4	154.4	155.4	153.0	153.0	159.3	162.7	173.4	186.6	190.0	190.5
75°	130.1	131.5	131.5	128.1	129.1	133.0	137.4	146.1	158.3	160.8	160.8
77.5°	103.3	108.6	108.6	105.2	106.7	107.2	113.0	117.4	126.7	127.6	123.7
80°	75.0	80.4	84.8	81.8	84.3	81.4	84.8	87.7	96.9	92.6	86.2
82.5°	53.6	57.5	60.9	61.4	58.9	53.6	58.0	58.5	62.8	57.0	53.6
85°	29.7	33.1	37.5	35.6	31.7	28.3	29.7	30.7	30.2	28.7	26.8
87.5°	7.8	8.3	9.3	6.8	6.3	5.4	7.3	7.3	8.3	8.8	8.3
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°	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1
2.5°	1577.9	1599.3	1645.6	1680.6	1723.5	1775.6	1837.0	1898.9	1965.6	1986.6	2015.8
5°	1305.5	1359.1	1381.5	1445.4	1508.7	1603.7	1705.0	1822.4	1951.0	2012.9	2072.3
7.5°	1115.6	1144.3	1167.7	1214.4	1290.4	1405.9	1533.0	1679.7	1861.9	1952.0	2039.2
10°	1013.3	1016.2	1044.9	1102.9	1169.1	1271.0	1391.3	1555.5	1758.6	1868.2	1970.5
12.5°	945.5	932.9	964.1	1024.5	1099.5	1193.5	1304.1	1460.5	1684.1	1796.6	1920.3
15°	886.1	866.1	889.5	951.4	1025.4	1136.0	1254.9	1420.5	1654.8	1785.9	1923.2
17.5°	887.6	832.5	840.8	892.9	966.5	1079.0	1223.2	1419.1	1699.2	1850.2	2012.9
20°	997.2	909.0	871.5	881.2	952.4	1075.1	1237.8	1487.3	1844.8	2065.0	2238.9
22.5°	1104.8	1051.7	991.3	971.4	1010.3	1138.9	1330.9	1648.5	2161.5	2493.2	2807.4
25°	1067.3	1112.6	1097.5	1069.3	1078.0	1184.7	1394.2	1781.0	2407.5	2781.1	3076.3
27.5°	854.0	936.3	952.9	952.4	955.8	1043.5	1253.9	1691.9	2438.2	2836.2	3118.2
30°	600.2	607.5	616.2	633.3	648.9	727.3	981.1	1485.3	2424.5	2861.0	3143.5
32.5°	433.1	442.8	455.0	478.4	515.4	615.3	858.3	1419.5	2496.6	2963.8	3217.6
35°	396.0	407.3	418.9	445.7	480.8	573.4	809.6	1392.3	2615.0	3130.4	3350.6
37.5°	384.4	397.0	407.3	426.7	455.0	543.2	765.3	1373.7	2736.3	3306.7	3528.9
40°	376.1	390.7	399.0	414.6	434.0	515.4	725.8	1359.1	2853.7	3468.0	3672.1
42.5°	368.8	383.9	394.6	405.8	421.9	490.6	690.8	1344.5	2955.5	3624.4	3814.8
45°	360.0	379.0	392.6	401.4	415.5	469.6	664.0	1332.8	3071.4	3763.2	3959.0
47.5°	352.7	373.6	390.7	400.9	406.3	455.0	642.5	1348.9	3210.8	3908.4	4093.0
50°	353.2	373.2	394.6	410.7	396.5	442.8	629.4	1412.7	3392.0	4080.8	4198.7
52.5°	368.8	393.1	410.2	414.1	382.9	428.2	622.6	1524.3	3606.3	4233.3	4305.4
55°	386.3	411.6	430.1	427.7	375.6	409.7	621.1	1643.1	3841.1	4411.1	4444.2
57.5°	380.0	417.0	445.2	432.6	376.1	391.7	614.8	1739.1	4037.4	4544.1	4581.6
58°	378.0	415.0	447.2	431.6	374.6	386.3	613.3	1747.4	4064.7	4553.3	4601.1
60°	359.0	398.0	445.7	424.3	366.3	371.7	597.2	1774.2	4057.4	4505.6	4612.8
62.5°	324.4	356.6	412.1	388.7	341.0	352.2	561.2	1741.1	3859.6	4275.7	4441.8
65°	285.5	309.3	346.4	342.0	305.0	332.2	512.0	1610.0	3463.6	3902.5	4077.4
67.5°	256.2	275.7	299.1	292.8	274.3	305.4	458.9	1388.4	3019.3	3454.3	3674.5
70°	226.5	241.6	253.3	248.9	243.1	279.1	411.6	1126.8	2593.6	3028.6	3241.9
72.5°	196.3	210.4	220.2	213.9	210.4	251.4	373.2	874.4	2048.4	2498.6	2772.8
75°	164.2	178.3	185.1	177.8	175.9	221.7	316.2	653.3	1536.9	1926.2	2162.9
77.5°	127.1	142.2	151.0	148.6	149.6	182.2	255.3	447.2	1099.0	1312.9	1562.3
80°	89.1	105.7	111.6	109.1	115.9	138.8	180.2	284.0	758.0	852.0	1027.9
82.5°	55.0	70.6	71.6	74.0	78.9	102.8	135.9	172.9	475.9	492.0	619.6
85°	27.8	33.6	36.0	39.9	44.3	62.8	77.5	107.2	306.4	231.9	346.4
87.5°	9.3	9.7	11.7	14.6	18.0	25.8	33.1	43.8	76.0	41.9	107.2
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-SA2A-735-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1	1853.1
2.5°	2074.7	2116.2	2146.4	2174.1	2147.3	2144.9	2118.6	2076.2	2058.7	2058.7
5°	2197.0	2294.0	2372.4	2422.6	2401.1	2349.5	2264.2	2155.6	2097.2	2086.9
7.5°	2230.6	2422.1	2567.7	2619.4	2583.3	2469.3	2306.1	2123.0	2039.2	2020.7
10°	2210.2	2459.1	2673.0	2754.8	2704.6	2532.2	2309.5	2085.0	1981.7	1960.3
12.5°	2188.7	2464.0	2692.4	2810.8	2778.2	2582.8	2334.4	2060.1	1940.8	1910.1
15°	2204.3	2465.9	2668.6	2790.8	2811.8	2643.7	2375.3	2078.2	1932.5	1899.9
17.5°	2302.7	2502.9	2634.5	2733.4	2806.9	2726.5	2491.7	2164.4	2006.5	1966.1
20°	2508.3	2591.6	2654.0	2730.4	2848.8	2895.6	2730.0	2401.1	2214.6	2179.0
22.5°	3103.6	3088.5	2960.9	2959.4	3130.9	3318.4	3307.2	2882.4	2601.8	2572.6
25°	3326.7	3256.6	3071.9	3027.1	3102.6	3392.0	3350.1	2980.8	2721.7	2650.6
27.5°	3239.5	3065.6	2944.3	2934.1	2909.2	3182.5	3283.4	3020.8	2763.6	2694.4
30°	3234.1	2978.4	2805.0	2825.4	2849.3	3110.4	3320.4	3146.0	2870.7	2796.7
32.5°	3247.3	2990.6	2815.2	2819.1	2890.2	3121.1	3361.3	3282.4	3011.5	2937.5
35°	3300.4	3059.8	2880.5	2871.2	2982.3	3191.3	3431.0	3496.7	3203.9	3119.7
37.5°	3386.1	3197.6	2999.8	2997.4	3158.6	3317.9	3517.7	3713.0	3395.4	3304.8
40°	3512.3	3358.9	3212.2	3199.1	3398.3	3524.0	3630.2	3943.4	3618.0	3501.6
42.5°	3664.8	3552.3	3492.3	3544.5	3735.9	3755.4	3805.6	4156.3	3807.5	3672.1
45°	3806.1	3800.7	3884.0	4022.3	4133.9	4017.0	3988.7	4299.0	3954.6	3807.5
47.5°	3974.1	4119.3	4370.7	4573.3	4690.2	4321.5	4145.1	4392.1	4061.8	3926.4
50°	4144.6	4500.7	4902.1	5184.7	5209.5	4652.2	4252.8	4479.8	4159.2	4018.5
52.5°	4323.9	4805.2	5339.6	5667.9	5619.7	4940.1	4357.0	4539.2	4259.6	4135.9
55°	4479.8	4991.8	5584.1	5899.3	5828.7	5115.5	4469.5	4603.5	4402.8	4298.6
57.5°	4567.0	5007.4	5523.2	5798.5	5722.0	5081.4	4521.2	4651.3	4494.4	4412.5
58°	4579.6	4986.4	5469.2	5740.0	5662.1	5052.7	4520.7	4649.3	4500.2	4417.9
60°	4568.4	4850.5	5268.0	5509.1	5427.3	4872.4	4502.2	4612.8	4426.2	4356.5
62.5°	4464.7	4614.7	4920.6	5096.0	5072.6	4590.8	4426.2	4474.9	4200.6	4133.4
65°	4328.3	4293.2	4475.9	4600.1	4617.6	4379.9	4350.7	4176.8	3911.3	3816.3
67.5°	4162.6	3928.8	3928.3	3999.0	4028.2	4055.5	4193.3	3852.8	3494.3	3393.9
70°	3881.6	3367.1	3212.2	3295.5	3271.2	3501.6	3912.3	3397.8	2991.6	2874.1
72.5°	3366.2	2672.0	2424.0	2531.2	2469.8	2746.0	3423.2	2796.2	2473.7	2329.5
75°	2728.5	1998.8	1743.0	1841.4	1803.4	2083.0	2848.3	2030.9	1774.2	1719.1
77.5°	2118.6	1448.3	1299.7	1286.1	1314.3	1550.1	2089.4	1371.3	1169.6	1132.1
80°	1361.1	1036.6	1045.4	1027.9	1042.5	977.2	1268.5	874.9	792.1	761.9
82.5°	895.9	722.4	861.3	795.0	755.1	657.2	832.0	572.9	486.2	469.6
85°	610.4	532.0	484.2	370.2	436.0	506.1	624.0	308.4	244.5	221.7
87.5°	275.7	185.1	135.9	83.8	132.5	153.0	303.0	36.0	27.8	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)