

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: P526340

Luminaire Tested: **GALN-SA1B-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3994 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

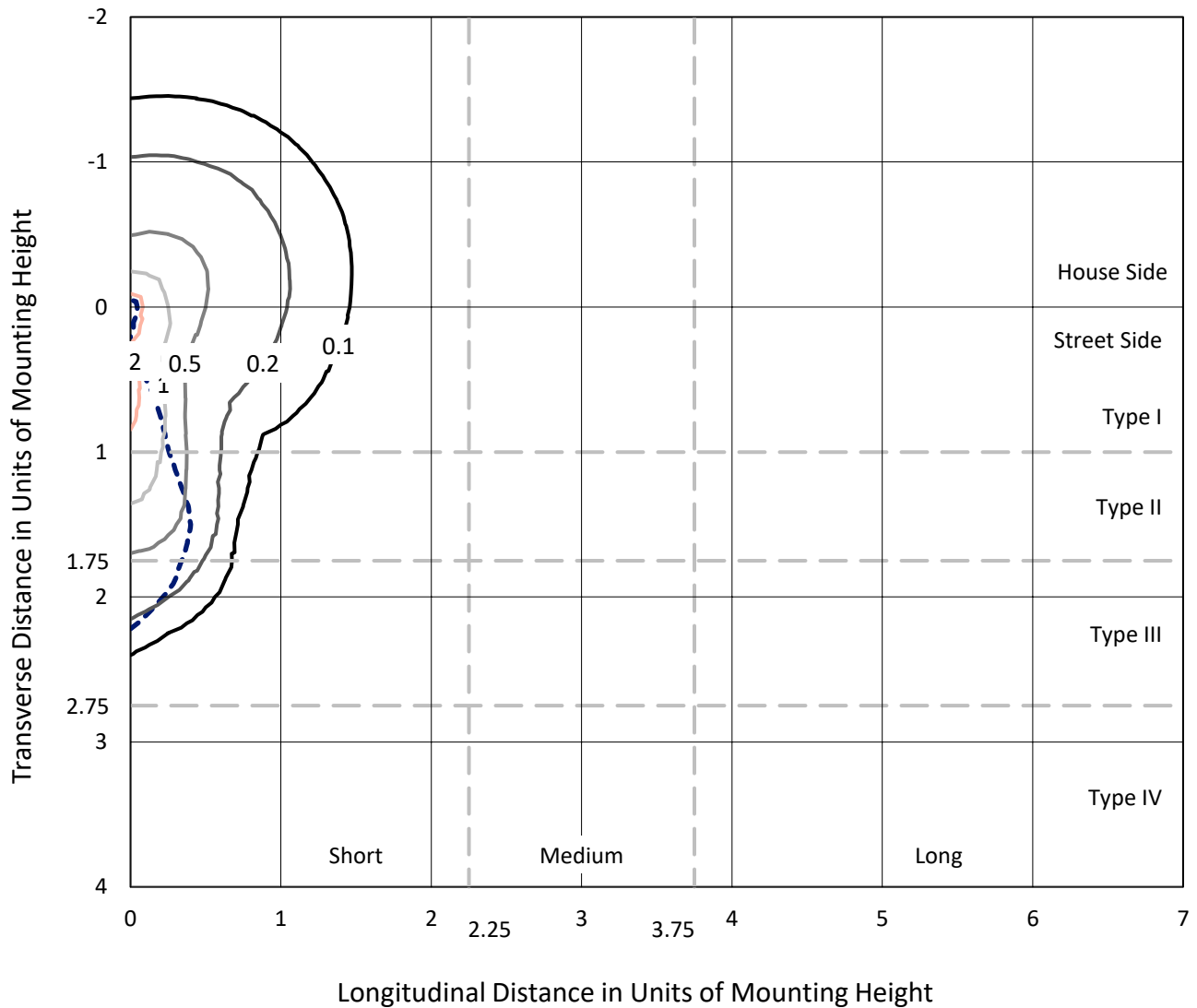
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

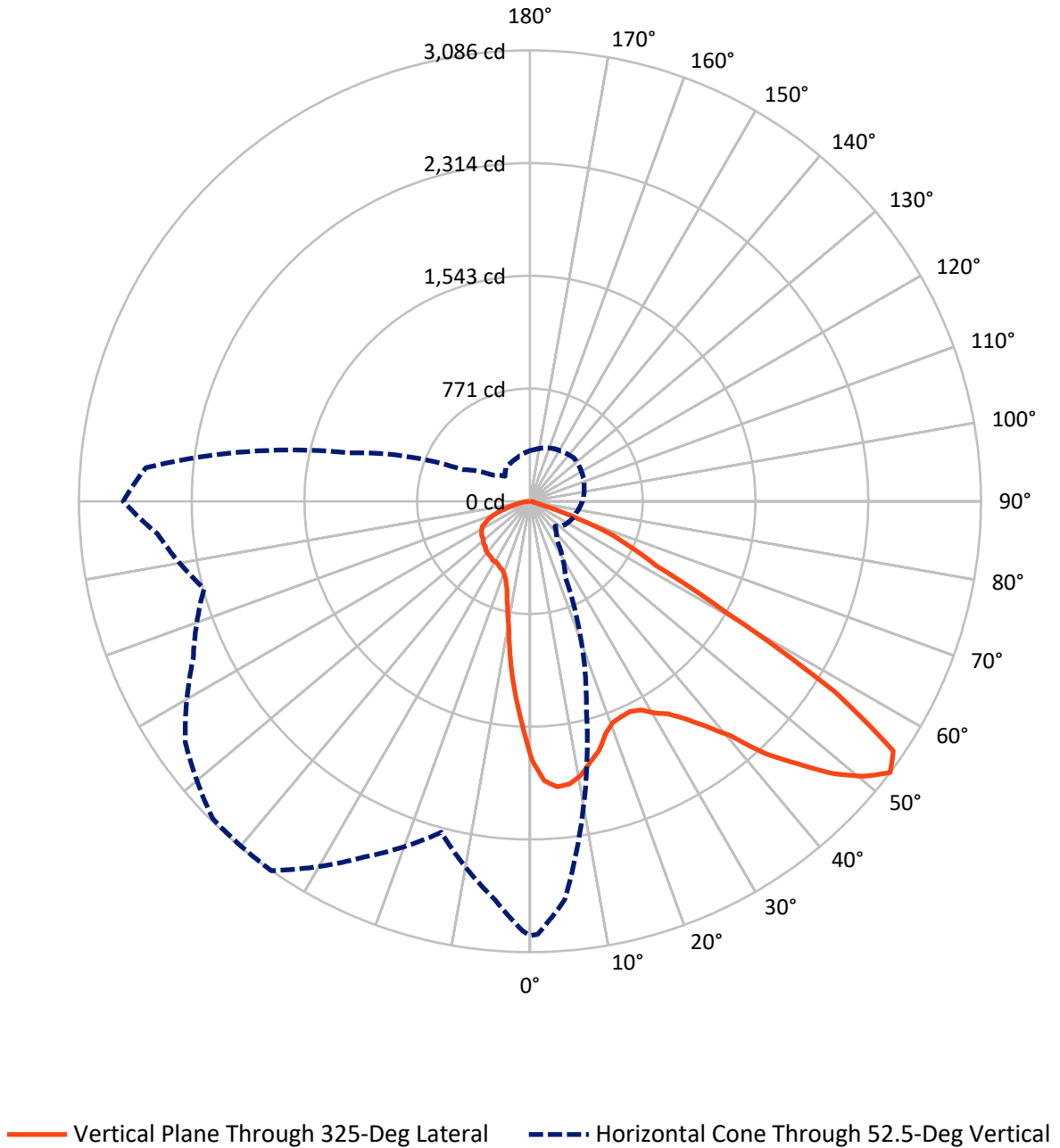
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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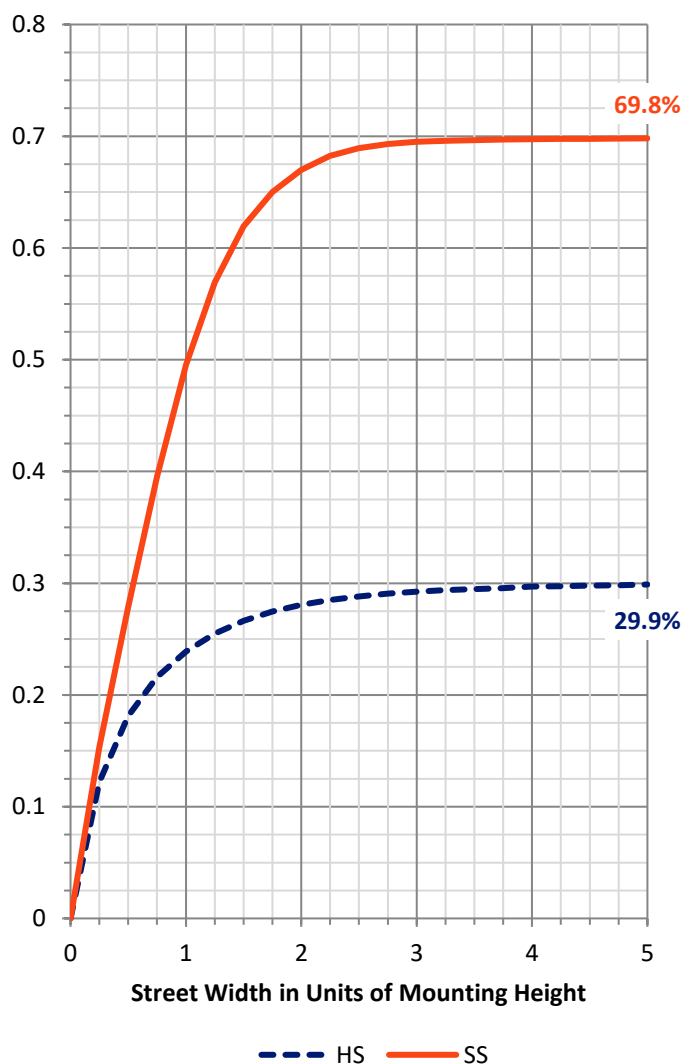
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1204.0	0.0	1204.0
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	2790.0	0.0	2790.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	3994.0	0.0	3994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.4
10°-20°	293.2	7.3
20°-30°	442.9	11.1
30°-40°	640.1	16.0
40°-50°	851.8	21.3
50°-60°	952.8	23.9
60°-70°	537.0	13.4
70°-80°	119.7	3.0
80°-90°	21.3	0.5
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°	3994.0	100.0
0°-180°	3994.0	100.0

Coefficient of Utilization

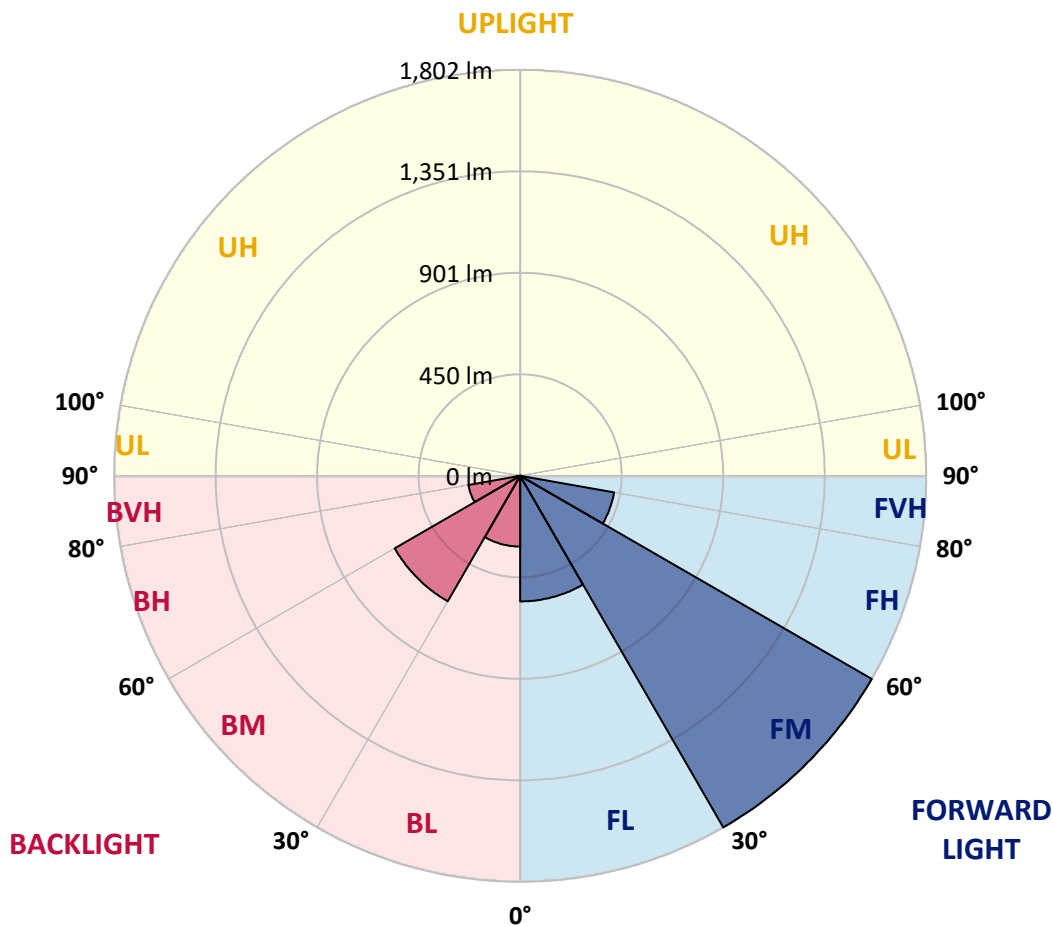


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.4	14.0			
FM (30°-60°)	1801.6	45.1			
FH (60°-80°)	423.3	10.6			G0/660
FVH (80°-90°)	7.7	0.2			G0/10
BL (0°-30°)	314.0	7.9	B1/500		
BM (30°-60°)	643.1	16.1	B1/1000		
BH (60°-80°)	233.4	5.8	B1/500		G1/500
BVH (80°-90°)	13.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6
2.5°	1802.1	1831.0	1799.8	1744.2	1704.8	1668.9	1631.3	1623.8	1574.6	1565.9	1530.0
5°	1699.6	1693.3	1655.0	1582.1	1501.6	1428.7	1374.9	1322.8	1287.5	1246.4	1243.5
7.5°	1575.2	1538.1	1516.1	1405.5	1306.0	1191.4	1142.2	1062.8	1038.0	1000.9	981.8
10°	1464.0	1436.8	1385.3	1274.7	1135.8	1059.9	1007.3	964.4	935.5	897.3	849.2
12.5°	1409.0	1398.0	1340.1	1168.8	1065.7	984.7	947.6	906.0	856.8	795.4	771.7
15°	1418.9	1381.8	1337.8	1148.5	1006.1	928.0	868.9	816.8	753.7	695.2	661.1
17.5°	1492.4	1464.0	1376.0	1161.3	983.5	870.7	763.6	686.6	629.8	577.2	553.4
20°	1637.1	1596.0	1497.0	1177.5	934.9	790.8	668.0	573.1	512.3	484.5	476.4
22.5°	1797.5	1773.1	1615.1	1213.9	896.1	716.7	566.7	471.8	449.2	441.7	456.7
25°	1992.5	1929.4	1798.6	1273.6	866.0	653.6	481.1	428.4	416.8	424.3	441.7
27.5°	2140.7	2123.9	1927.1	1329.7	824.9	577.7	433.0	398.3	401.7	409.3	425.5
30°	2316.7	2231.6	2051.6	1368.5	787.9	525.6	399.4	390.2	393.6	406.4	414.5
32.5°	2422.7	2390.8	2129.7	1427.0	745.0	480.5	373.4	364.7	369.9	389.0	408.1
35°	2557.5	2494.4	2226.4	1442.0	714.9	462.5	354.9	348.5	360.6	374.0	395.4
37.5°	2715.0	2671.6	2360.1	1431.6	698.7	444.0	339.2	336.3	345.0	363.5	388.4
40°	2808.2	2794.9	2430.2	1438.0	673.2	427.8	321.3	324.8	342.7	357.2	381.5
42.5°	2897.9	2811.1	2533.8	1435.6	657.0	405.8	323.0	319.0	332.9	349.6	372.8
45°	2917.6	2831.4	2558.1	1419.4	637.4	384.4	309.7	311.4	328.2	349.1	364.1
47.5°	2904.9	2841.2	2603.3	1414.8	618.8	369.3	290.0	310.9	320.7	337.5	358.9
50°	2896.2	2892.7	2641.5	1436.8	593.9	345.6	266.3	303.3	313.2	330.0	353.1
52.5°	2972.6	2965.1	2737.0	1494.7	574.3	320.1	242.0	284.2	308.0	324.2	346.8
55°	3018.9	2985.9	2900.8	1565.9	541.3	286.6	225.2	260.5	295.2	309.7	332.9
57.5°	2715.6	2693.0	2624.1	1461.7	485.7	242.6	204.3	236.2	277.9	300.4	324.2
60°	2259.4	2224.1	2047.5	1242.3	358.3	188.7	191.6	217.1	273.2	281.9	309.7
62.5°	2130.3	2042.9	1802.7	999.7	275.0	162.1	171.9	199.7	248.9	263.4	291.2
65°	1690.4	1625.5	1289.8	721.9	184.1	140.7	156.9	180.0	214.8	243.1	268.6
67.5°	1058.2	996.3	688.3	341.5	128.5	120.4	140.1	164.4	192.8	218.2	246.6
70°	552.8	485.1	317.8	123.3	88.6	98.4	116.9	140.1	167.9	188.7	210.7
72.5°	206.1	167.3	103.6	53.3	61.4	75.3	94.9	111.7	131.4	156.9	169.0
75°	31.8	27.2	26.6	32.4	41.7	54.4	67.7	84.5	101.9	118.1	126.2
77.5°	15.1	14.5	16.2	21.4	27.8	38.8	49.2	65.4	79.3	89.7	94.4
80°	9.8	9.3	10.4	14.5	20.8	28.9	39.4	50.4	63.1	71.8	70.6
82.5°	5.8	6.4	6.4	9.8	14.5	20.8	28.4	38.2	46.9	54.4	49.8
85°	3.5	2.9	2.9	5.8	9.8	16.8	23.7	16.2	16.8	16.8	19.1
87.5°	1.2	1.2	1.2	0.6	1.2	1.2	1.7	2.9	3.5	4.1	5.2
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6
2.5°	1528.8	1546.8	1540.4	1517.9	1535.2	1538.1	1526.5	1566.5	1574.0	1561.8	1565.3
5°	1239.4	1244.0	1254.5	1276.5	1292.1	1310.6	1310.6	1311.8	1296.1	1335.5	1323.9
7.5°	965.6	968.5	980.6	1027.5	1040.8	1076.2	1091.2	1080.8	1049.5	1036.2	1047.2
10°	833.6	816.8	812.8	818.6	848.7	863.7	876.4	873.0	867.8	857.3	845.8
12.5°	745.6	733.5	723.6	709.7	711.5	725.9	735.8	727.7	730.0	732.3	735.8
15°	650.1	641.4	636.2	615.4	613.0	622.9	626.4	631.0	639.7	640.3	636.2
17.5°	548.8	541.3	552.8	564.4	556.3	556.9	563.3	567.3	565.0	554.6	549.4
20°	479.3	487.4	499.0	510.0	518.7	523.9	526.2	519.8	512.3	490.9	490.3
22.5°	459.1	469.5	479.3	496.1	504.2	517.5	505.4	490.9	480.5	470.1	457.9
25°	444.0	452.7	472.4	478.7	494.4	505.4	496.7	482.2	464.3	449.2	440.0
27.5°	433.0	442.9	455.6	473.0	485.1	491.5	482.8	477.0	458.5	440.5	427.2
30°	426.1	436.5	459.6	474.1	484.5	489.7	474.7	467.7	454.4	439.4	427.8
32.5°	421.4	430.7	450.4	468.9	475.8	475.8	478.2	470.1	451.5	426.1	416.2
35°	406.4	419.1	435.3	456.7	469.5	477.0	465.4	456.2	444.0	418.0	400.0
37.5°	397.7	406.4	427.2	447.5	458.5	466.6	462.0	445.7	429.5	408.1	393.6
40°	388.4	402.3	420.9	440.0	452.1	460.2	456.7	437.6	418.0	397.7	387.9
42.5°	382.1	391.3	410.4	431.9	446.3	462.0	451.5	427.8	413.9	386.1	375.1
45°	376.9	391.9	412.2	420.9	435.9	452.1	433.6	419.1	402.9	382.6	373.4
47.5°	370.5	384.4	397.7	420.9	427.8	435.3	431.9	408.7	394.8	372.8	366.4
50°	368.2	373.4	397.7	410.4	420.3	427.8	418.5	401.2	387.9	365.3	351.4
52.5°	358.9	368.8	384.4	401.2	413.3	422.6	407.5	396.5	378.6	354.9	346.2
55°	347.3	353.1	380.9	398.3	404.6	411.0	405.2	387.3	368.8	344.4	335.8
57.5°	332.3	345.6	368.2	392.5	400.6	404.1	394.8	380.3	357.2	335.8	321.9
60°	316.7	330.5	355.4	375.1	383.2	396.0	382.1	373.4	346.8	323.0	308.0
62.5°	301.0	316.7	335.2	360.1	367.0	372.2	368.8	356.6	335.2	308.5	290.0
65°	282.5	294.1	317.2	330.0	334.6	346.8	334.6	330.0	310.9	285.4	269.8
67.5°	254.7	264.6	284.8	297.0	300.4	305.7	305.1	299.9	278.4	261.1	247.2
70°	222.9	231.6	244.3	258.8	260.5	266.9	261.1	259.9	246.0	222.3	214.8
72.5°	178.9	187.0	203.8	210.1	210.7	213.0	210.1	206.1	202.6	177.7	170.2
75°	137.2	141.8	149.9	155.7	155.7	158.6	156.9	152.8	143.6	127.9	120.4
77.5°	95.5	100.1	110.6	114.0	113.5	114.6	109.4	105.4	91.5	83.4	77.0
80°	69.5	72.4	77.6	79.9	80.5	82.2	75.8	72.4	64.3	55.0	52.1
82.5°	50.4	52.1	52.7	55.6	55.6	52.7	50.9	47.5	41.7	35.9	33.6
85°	20.8	21.4	22.0	25.5	26.1	31.3	28.9	27.2	23.7	20.3	18.5
87.5°	5.2	5.8	7.5	6.4	7.5	7.5	8.1	9.3	9.3	7.5	7.5
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°	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6
2.5°	1578.6	1583.3	1642.3	1649.8	1678.8	1708.3	1767.9	1810.8	1845.5	1868.1	1874.4
5°	1336.1	1365.6	1392.8	1436.8	1476.7	1533.5	1598.9	1679.9	1781.8	1833.9	1854.8
7.5°	1046.1	1080.8	1120.2	1163.0	1221.5	1323.3	1410.8	1504.5	1634.8	1688.6	1770.2
10°	853.9	892.6	944.7	977.7	1048.4	1145.6	1247.5	1355.8	1480.2	1557.8	1652.2
12.5°	754.9	786.7	834.8	904.2	956.9	1020.0	1095.8	1232.5	1410.8	1484.3	1549.1
15°	645.5	680.8	736.3	813.3	876.4	951.7	1036.8	1185.6	1375.4	1488.9	1543.9
17.5°	555.2	580.6	639.1	705.7	778.0	860.2	982.4	1183.3	1412.5	1557.8	1647.5
20°	492.6	496.1	527.9	584.7	683.1	790.2	948.8	1171.7	1531.2	1676.5	1789.9
22.5°	453.3	449.8	450.4	498.4	567.3	721.3	896.1	1211.0	1666.0	1865.2	1941.6
25°	433.6	424.3	418.5	429.0	491.5	639.7	856.2	1263.1	1811.3	2020.9	2114.7
27.5°	423.2	407.0	395.4	397.1	442.9	598.6	831.3	1285.7	1955.5	2238.0	2271.0
30°	419.1	398.9	382.1	376.3	406.4	541.3	778.0	1324.5	2084.6	2357.2	2385.6
32.5°	404.6	379.8	363.5	358.3	370.5	490.9	739.8	1352.3	2198.6	2486.9	2477.1
35°	387.9	367.0	346.8	336.9	345.6	458.5	709.1	1339.0	2332.9	2587.6	2582.4
37.5°	386.1	358.9	342.1	325.9	325.3	418.5	667.5	1351.7	2418.6	2768.3	2697.0
40°	371.1	353.7	331.7	318.4	310.9	398.3	626.9	1321.6	2544.2	2841.2	2771.1
42.5°	371.6	345.6	326.5	310.9	303.3	368.8	599.2	1313.5	2588.2	2959.9	2805.9
45°	362.4	336.9	320.7	302.2	298.1	346.2	572.5	1275.9	2665.8	2965.7	2762.5
47.5°	353.1	330.5	313.2	291.2	281.9	338.1	551.7	1244.6	2625.3	2911.2	2702.3
50°	346.8	320.7	304.5	288.9	262.8	324.2	524.5	1237.1	2568.5	2837.7	2590.5
52.5°	335.8	312.6	295.8	283.7	242.0	311.4	514.1	1281.1	2638.0	2782.7	2558.1
55°	325.3	301.6	280.2	256.4	224.6	277.9	485.1	1322.2	2739.3	2909.5	2705.2
57.5°	314.3	291.8	268.6	240.2	207.8	243.1	455.0	1329.7	2549.4	2688.9	2568.0
60°	299.9	270.9	253.6	216.5	189.9	201.5	360.6	1172.3	1977.5	2245.5	2249.6
62.5°	283.7	252.4	237.3	193.9	171.4	173.7	294.1	985.3	1604.1	1858.8	1969.4
65°	262.2	232.1	214.2	179.5	158.0	150.5	215.3	721.9	1218.6	1508.0	1633.6
67.5°	234.5	206.1	183.5	156.3	141.2	129.1	147.0	406.4	719.6	1012.5	1050.7
70°	204.9	180.6	156.9	134.3	117.5	108.8	107.7	180.0	343.9	544.7	620.0
72.5°	161.5	144.1	125.0	108.3	97.3	84.5	77.0	74.7	116.4	221.7	306.2
75°	115.8	101.3	90.3	79.3	71.2	64.3	58.5	53.3	48.6	55.6	76.4
77.5°	72.9	67.7	59.0	56.2	51.5	49.8	47.5	44.6	41.1	38.8	38.8
80°	49.2	45.7	42.8	42.3	40.5	39.9	40.5	37.6	34.2	31.3	32.4
82.5°	33.0	32.4	31.8	31.3	31.8	32.4	33.6	33.0	30.1	28.4	28.9
85°	19.7	20.8	22.0	23.2	25.5	22.6	18.5	15.6	13.9	12.7	12.2
87.5°	7.5	10.4	9.3	8.7	9.3	8.7	8.1	7.5	6.4	5.8	5.8
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-SA1B-735-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6
2.5°	1916.7	1928.3	1938.1	1935.8	1915.5	1888.3	1877.3	1821.2	1809.6	1802.1
5°	1942.8	2009.9	2024.4	2015.7	1963.0	1896.4	1831.6	1749.4	1701.4	1699.6
7.5°	1894.7	1977.5	2003.5	2023.2	1953.2	1837.4	1726.3	1602.9	1572.8	1575.2
10°	1772.6	1904.5	1968.8	1989.1	1908.6	1808.5	1654.5	1529.4	1465.2	1464.0
12.5°	1704.8	1808.5	1826.4	1854.8	1831.0	1729.7	1612.8	1472.7	1410.2	1409.0
15°	1644.6	1712.9	1718.1	1758.1	1770.8	1702.5	1623.8	1474.4	1424.1	1418.9
17.5°	1697.3	1649.8	1630.2	1635.4	1673.0	1697.9	1687.5	1572.8	1521.3	1492.4
20°	1732.6	1626.7	1567.1	1572.8	1617.4	1708.3	1782.4	1715.3	1633.6	1637.1
22.5°	1827.0	1630.2	1537.0	1530.6	1601.2	1762.7	1889.5	1895.3	1816.6	1797.5
25°	1968.2	1670.1	1527.7	1526.0	1593.7	1821.2	2014.5	2108.3	2027.9	1992.5
27.5°	2081.7	1732.6	1556.6	1562.4	1617.4	1868.7	2121.1	2245.5	2184.2	2140.7
30°	2181.3	1797.5	1597.2	1570.5	1681.1	1893.5	2166.8	2401.8	2352.6	2316.7
32.5°	2222.4	1889.5	1661.4	1617.4	1733.8	1923.7	2261.7	2553.5	2511.2	2422.7
35°	2291.8	1941.0	1696.1	1692.7	1825.8	1996.0	2306.3	2653.6	2636.3	2557.5
37.5°	2347.4	1993.1	1819.5	1781.2	1952.0	2117.6	2378.1	2792.0	2752.0	2715.0
40°	2390.2	2086.3	1934.7	1985.0	2107.2	2228.1	2444.1	2800.7	2915.9	2808.2
42.5°	2350.9	2169.7	2123.9	2244.4	2360.1	2354.3	2451.6	2867.8	2954.1	2897.9
45°	2341.0	2310.9	2423.2	2532.6	2559.3	2459.1	2397.8	2793.7	2942.5	2917.6
47.5°	2317.3	2449.9	2645.5	2823.8	2783.3	2529.2	2333.5	2780.4	2949.4	2904.9
50°	2309.2	2480.0	2809.9	2983.6	2959.3	2590.0	2303.4	2694.7	2900.2	2896.2
52.5°	2308.6	2541.9	2878.2	3070.4	3085.5	2686.1	2344.5	2738.2	2938.4	2972.6
55°	2334.7	2522.2	2869.6	3022.4	3016.6	2643.2	2349.1	2767.1	2985.3	3018.9
57.5°	2202.1	2259.4	2368.2	2489.2	2458.0	2189.4	2097.9	2558.1	2739.9	2715.6
60°	1901.7	1722.2	1599.5	1593.7	1532.9	1449.0	1717.0	2283.1	2283.1	2259.4
62.5°	1665.5	1130.6	971.4	926.2	969.6	1066.3	1656.2	2220.6	2157.5	2130.3
65°	1456.5	863.1	702.2	689.5	764.7	910.6	1497.6	1891.8	1780.7	1690.4
67.5°	937.2	632.1	522.2	499.6	590.5	668.6	996.8	1163.6	1093.5	1058.2
70°	604.4	411.6	290.6	272.7	308.0	412.2	636.8	678.5	576.6	552.8
72.5°	286.0	177.7	101.9	83.9	94.4	157.5	251.8	270.9	225.2	206.1
75°	90.9	65.4	41.7	35.9	34.2	40.5	57.9	44.6	32.4	31.8
77.5°	40.5	38.8	33.0	27.8	24.3	20.3	16.8	13.9	14.5	15.1
80°	33.6	30.7	27.2	24.3	20.3	15.6	12.2	9.3	9.3	9.8
82.5°	29.5	26.6	23.7	20.3	17.4	12.7	9.3	6.4	5.8	5.8
85°	12.7	15.1	16.2	17.4	13.9	10.4	6.4	4.1	3.5	3.5
87.5°	5.2	4.6	4.1	3.5	2.9	2.9	2.3	1.7	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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