

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: P652175

Luminaire Tested: **GALN-SA1B-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3606.2 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

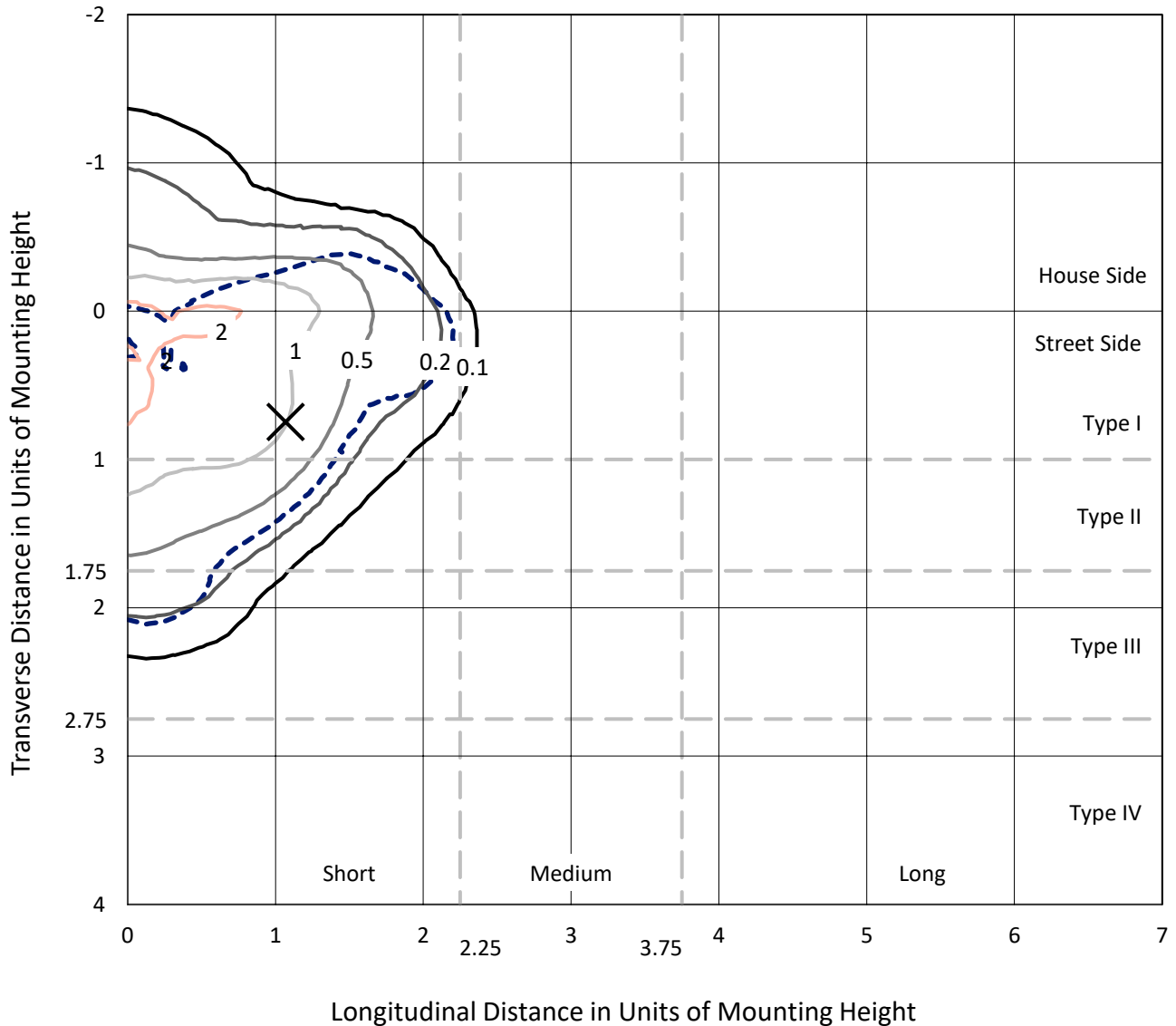
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

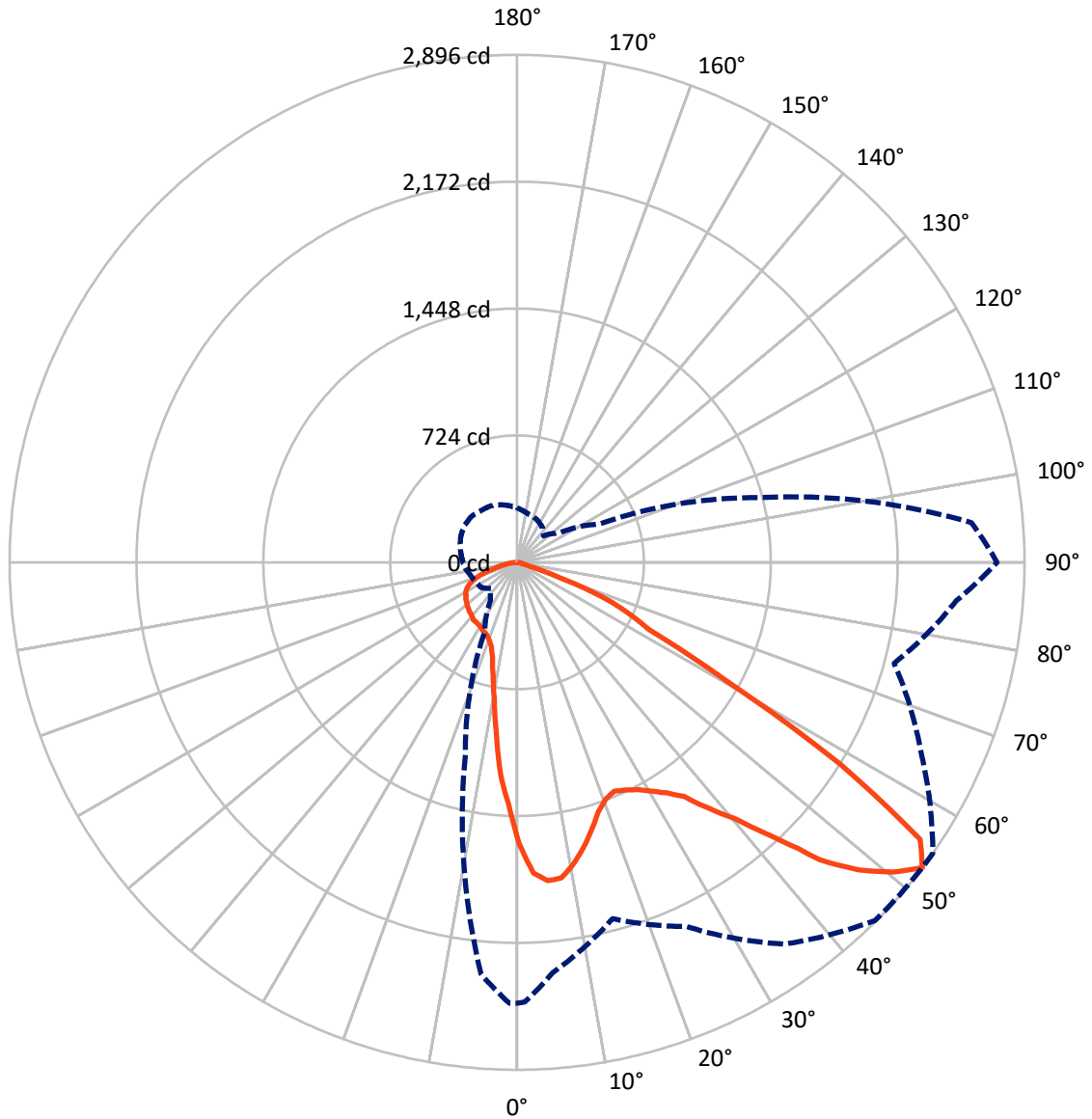
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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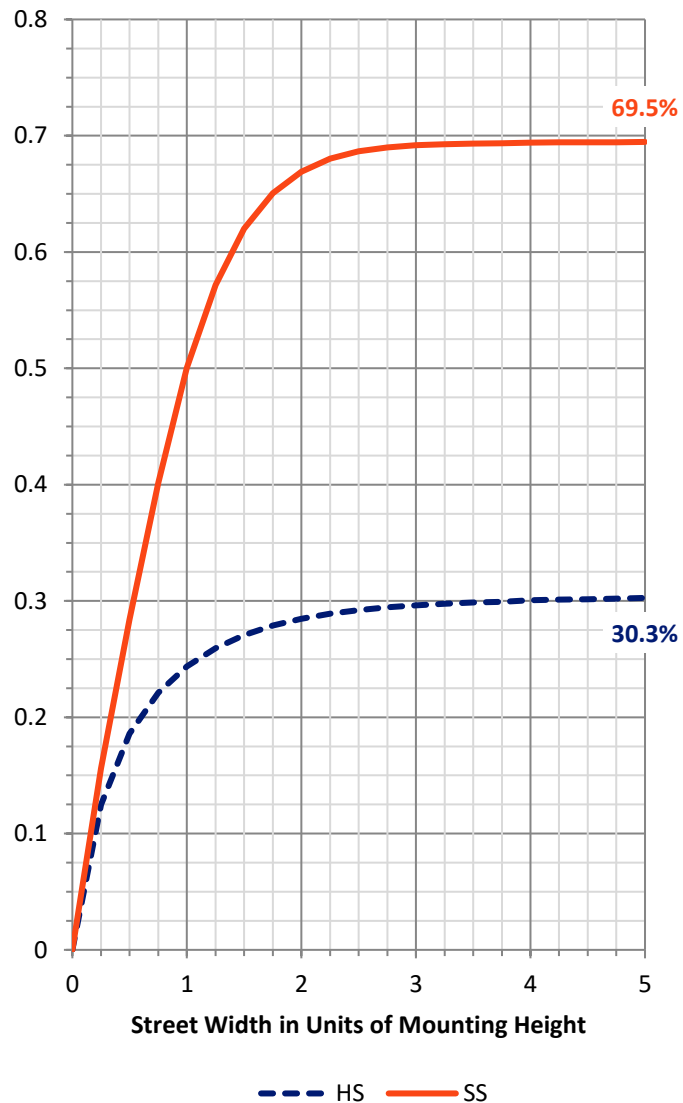
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1100.1	0.0	1100.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	2506.1	0.0	2506.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	3606.2	0.0	3606.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	3.4
10°-20°	265.0	7.3
20°-30°	401.8	11.1
30°-40°	580.5	16.1
40°-50°	775.8	21.5
50°-60°	865.9	24.0
60°-70°	475.0	13.2
70°-80°	102.7	2.8
80°-90°	16.6	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°	3606.2	100.0
0°-180°	3606.2	100.0

Coefficient of Utilization

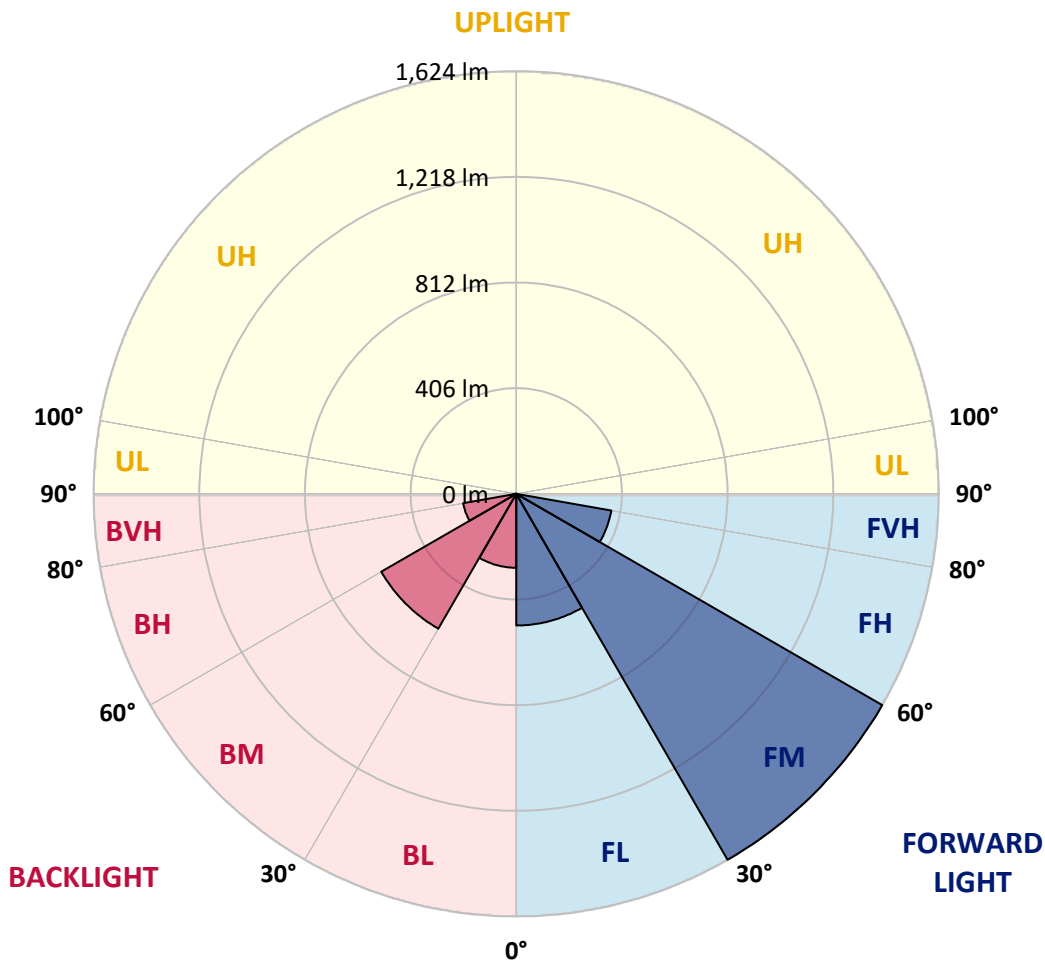


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.7	14.0			
FM (30°-60°)	1623.7	45.0			
FH (60°-80°)	370.6	10.3			G0/660
FVH (80°-90°)	6.1	0.2			G0/10
BL (0°-30°)	284.0	7.9	B1/500		
BM (30°-60°)	598.5	16.6	B1/1000		
BH (60°-80°)	207.1	5.7	B1/500		G1/500
BVH (80°-90°)	10.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7
2.5°	1688.1	1678.7	1687.1	1727.2	1750.3	1766.1	1776.1	1774.5	1736.6	1699.7	1699.7
5°	1638.7	1626.6	1643.9	1734.5	1825.6	1833.5	1846.7	1825.1	1769.2	1701.8	1617.6
7.5°	1495.5	1504.4	1533.3	1652.3	1770.8	1830.4	1846.2	1818.7	1728.2	1602.4	1478.6
10°	1371.7	1392.8	1459.6	1588.1	1697.1	1774.5	1791.9	1753.5	1681.8	1527.6	1417.0
12.5°	1329.0	1315.9	1390.1	1518.6	1622.9	1664.4	1672.3	1675.0	1626.6	1489.7	1354.9
15°	1323.8	1332.2	1390.1	1487.6	1551.8	1553.9	1567.0	1587.6	1593.9	1515.5	1383.8
17.5°	1399.6	1389.6	1449.1	1526.5	1496.0	1465.4	1468.6	1498.1	1550.2	1537.6	1474.9
20°	1511.8	1534.4	1581.2	1573.3	1491.3	1413.8	1414.3	1442.2	1544.9	1629.2	1601.8
22.5°	1698.1	1720.3	1755.0	1659.7	1491.3	1398.6	1380.7	1418.6	1578.6	1738.2	1745.0
25°	1868.3	1908.8	1918.2	1806.1	1566.0	1412.8	1401.2	1438.5	1612.4	1844.6	1909.3
27.5°	2023.0	2037.8	2079.4	1900.3	1607.6	1422.2	1421.2	1469.1	1655.0	1897.7	2056.2
30°	2145.2	2143.6	2167.3	1959.9	1673.9	1475.5	1424.3	1514.9	1710.8	1985.7	2192.1
32.5°	2228.4	2246.3	2296.4	2042.5	1701.8	1526.0	1486.0	1568.6	1778.7	2027.2	2287.9
35°	2374.8	2405.8	2342.7	2088.4	1790.3	1576.0	1529.1	1641.8	1812.4	2072.6	2405.3
37.5°	2512.7	2489.0	2424.9	2113.1	1847.7	1668.7	1625.0	1783.4	1917.2	2171.0	2483.3
40°	2601.2	2600.7	2486.4	2133.1	1888.2	1810.3	1807.7	1927.2	2045.7	2233.2	2570.7
42.5°	2639.6	2676.5	2511.7	2131.0	1973.6	1982.0	2035.1	2142.0	2136.8	2245.8	2568.6
44°	2692.3	2714.4	2555.4	2135.7	2030.4	2097.8	2223.2	2291.1	2216.3	2238.9	2566.0
45°	2690.2	2691.8	2493.3	2142.0	2078.9	2194.7	2306.9	2421.7	2286.3	2224.2	2600.7
47.5°	2628.6	2610.7	2440.6	2095.2	2230.0	2450.6	2554.4	2623.8	2372.7	2192.6	2557.5
50°	2506.9	2486.4	2312.7	2075.2	2261.6	2609.6	2752.8	2778.2	2451.2	2161.5	2514.8
52.5°	2515.3	2509.6	2349.0	2105.2	2293.2	2659.7	2889.3	2895.6	2540.2	2226.8	2515.3
55°	2666.0	2646.0	2453.3	2142.6	2270.0	2601.2	2802.4	2791.3	2510.1	2187.4	2561.7
57.5°	2439.6	2452.7	2309.0	1994.6	1986.7	2114.7	2203.2	2175.8	2094.7	1974.1	2383.2
60°	1968.3	2005.7	2019.3	1668.1	1499.1	1433.3	1407.0	1358.6	1372.3	1621.8	2093.6
62.5°	1688.1	1686.0	1771.9	1512.3	982.0	844.6	832.0	843.0	1001.0	1596.6	2050.4
65°	1338.5	1374.4	1400.7	1281.7	777.2	627.1	626.6	696.6	866.2	1334.3	1655.5
67.5°	849.8	896.8	929.4	819.9	519.7	446.5	434.4	518.6	600.3	875.1	996.8
70°	479.2	501.3	516.0	472.9	330.7	231.7	218.0	238.0	362.8	566.6	590.8
72.5°	184.9	194.9	214.9	216.4	124.8	74.8	60.6	72.7	152.7	224.3	213.8
75°	28.4	30.5	43.1	51.6	35.8	27.4	28.9	30.0	42.6	57.9	48.4
77.5°	13.7	13.7	13.2	15.3	17.9	19.5	21.0	23.1	25.3	27.9	26.8
80°	8.9	8.9	8.9	10.5	13.2	15.8	17.9	18.9	20.0	22.1	21.0
82.5°	5.8	5.8	5.8	7.9	10.5	13.2	14.2	16.8	18.9	22.1	20.5
85°	3.2	3.2	3.2	5.3	7.9	11.0	10.5	8.4	4.7	0.5	1.1
87.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7
2.5°	1655.5	1631.3	1629.2	1579.7	1535.4	1513.9	1496.5	1448.0	1458.5	1430.7	1430.1
5°	1575.4	1526.0	1445.9	1380.1	1314.3	1301.1	1243.8	1193.7	1195.3	1159.5	1165.8
7.5°	1431.7	1397.5	1300.1	1196.9	1109.4	1047.3	993.1	960.4	918.9	904.7	897.3
10°	1340.6	1298.5	1189.0	1059.4	961.5	928.3	876.2	847.2	804.6	783.6	768.8
12.5°	1300.6	1239.0	1102.1	970.4	905.2	870.9	826.7	774.1	723.5	704.0	677.2
15°	1304.8	1231.1	1076.8	934.7	856.2	789.9	750.3	691.9	640.3	606.1	586.6
17.5°	1368.6	1279.0	1088.4	907.3	794.6	711.4	633.9	570.8	529.7	503.9	497.6
20°	1519.1	1397.5	1107.8	863.0	733.0	629.2	534.0	468.1	436.5	436.0	436.5
22.5°	1644.5	1523.9	1147.4	836.7	671.4	523.9	429.2	408.1	401.7	414.9	416.5
25°	1813.4	1666.0	1215.3	823.0	614.5	446.5	388.0	380.2	379.6	396.5	397.0
27.5°	1986.7	1790.3	1255.9	783.0	556.6	406.5	363.3	361.7	370.2	388.0	386.5
30°	2104.7	1894.6	1329.0	735.1	488.1	371.2	353.3	355.4	367.0	380.7	382.8
32.5°	2242.1	1997.3	1348.0	708.8	446.0	341.7	329.1	333.9	348.6	370.2	381.7
35°	2399.5	2070.0	1377.0	673.0	430.2	319.1	312.8	318.1	336.0	350.2	362.8
37.5°	2515.9	2198.4	1382.3	645.0	412.8	306.5	296.5	313.9	324.4	344.4	350.7
40°	2602.3	2291.6	1395.9	627.6	399.1	290.1	290.1	301.8	316.0	334.4	347.0
42.5°	2657.6	2359.5	1405.9	611.8	372.8	285.4	282.7	294.3	313.3	331.2	337.0
44°	2691.3	2388.5	1395.9	597.1	365.4	279.6	279.6	289.6	304.4	325.4	332.3
45°	2699.7	2424.9	1373.8	596.6	356.5	272.7	271.7	290.6	300.7	326.5	330.7
47.5°	2732.3	2469.6	1376.5	579.8	334.9	256.4	274.8	283.2	292.2	314.9	329.1
50°	2731.3	2497.5	1370.7	555.0	319.1	238.0	268.5	278.0	286.9	310.2	316.0
52.5°	2738.6	2601.7	1423.8	515.5	290.6	214.3	247.5	268.5	279.6	299.1	311.2
55°	2734.9	2661.3	1476.5	486.0	250.6	200.1	229.6	254.3	270.1	290.6	296.5
57.5°	2498.0	2352.2	1366.5	430.8	207.5	183.3	204.3	239.6	259.6	280.6	288.0
60°	2040.9	1812.9	1126.9	317.0	170.6	168.5	190.1	234.8	243.3	261.7	274.3
62.5°	1886.1	1590.2	893.6	242.2	145.8	154.3	175.3	212.2	225.4	248.0	259.6
65°	1476.0	1056.3	553.4	163.7	128.5	138.5	158.5	185.9	207.5	228.5	242.2
67.5°	874.1	577.1	273.8	114.8	112.2	122.7	143.2	163.7	188.5	211.7	218.5
70°	476.0	283.8	116.9	87.4	95.3	104.8	124.8	139.0	162.7	180.6	192.2
72.5°	152.7	86.4	58.4	64.8	72.7	83.8	95.9	113.2	130.1	140.6	150.0
75°	36.8	36.3	41.6	45.2	52.6	61.1	71.1	80.1	93.2	103.2	111.6
77.5°	25.8	27.9	32.1	37.4	40.0	43.1	49.5	56.3	62.1	69.5	74.8
80°	20.0	21.6	24.7	27.4	30.0	32.6	35.8	38.4	42.1	46.8	49.5
82.5°	18.9	20.0	23.1	24.7	23.7	23.1	25.3	26.3	26.8	28.4	30.0
85°	1.6	0.0	1.1	3.7	8.9	13.2	14.2	14.2	13.7	14.7	14.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.1	1.6
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7
2.5°	1423.8	1405.9	1412.8	1421.2	1409.1	1381.2	1388.6	1385.4	1413.8	1411.7	1440.1
5°	1193.7	1165.8	1169.0	1210.0	1196.9	1211.1	1182.7	1179.0	1184.2	1186.9	1191.6
7.5°	913.6	909.9	941.5	976.2	992.5	975.7	947.8	941.5	935.7	924.1	950.4
10°	745.6	746.6	744.5	770.9	789.3	785.7	768.8	766.7	755.6	751.4	766.2
12.5°	665.6	651.4	644.5	636.0	650.3	659.8	652.4	647.1	647.7	653.0	655.1
15°	588.2	579.2	564.5	555.0	561.9	557.1	554.5	565.0	562.4	561.3	574.0
17.5°	501.3	508.6	507.6	497.1	506.0	502.3	501.8	494.4	484.4	477.1	481.3
20°	443.9	457.6	468.1	468.6	473.4	472.9	465.0	442.3	435.0	433.4	434.4
22.5°	423.4	430.8	443.4	461.3	461.3	452.9	443.4	417.1	410.2	402.8	399.6
25°	407.0	421.3	437.6	439.7	448.1	440.2	425.0	411.8	397.5	387.5	387.5
27.5°	398.6	414.4	426.6	430.2	441.8	435.5	419.7	402.8	385.9	385.4	376.5
30°	394.9	409.7	417.6	426.6	431.8	421.8	417.1	399.1	382.3	378.1	363.3
32.5°	383.8	404.9	419.7	417.6	421.8	417.6	410.7	395.9	377.0	367.5	365.9
35°	371.2	392.3	408.1	419.2	421.8	412.8	408.6	388.6	362.8	358.1	341.7
37.5°	364.4	377.0	396.5	414.4	418.1	413.4	399.1	378.6	352.8	347.5	333.3
40°	356.0	372.3	387.5	402.3	413.4	401.7	385.4	365.4	353.8	338.1	333.9
42.5°	349.6	368.1	380.7	397.0	409.7	394.4	375.4	361.7	345.4	334.9	322.8
44°	347.5	364.4	372.8	392.8	403.3	391.7	375.9	361.7	342.8	333.3	322.8
45°	340.2	363.3	372.3	390.2	399.1	389.6	369.6	355.4	341.7	330.2	319.1
47.5°	332.8	348.6	363.8	378.1	384.4	381.2	364.4	347.0	330.7	323.9	313.3
50°	330.7	346.5	360.7	373.8	381.2	374.9	359.6	342.8	323.9	312.8	303.9
52.5°	320.2	339.6	355.4	359.6	369.1	365.4	353.8	335.4	317.5	308.1	300.7
55°	304.9	325.4	347.0	352.3	365.9	360.2	342.8	325.4	310.2	295.9	286.4
57.5°	299.1	319.1	340.2	347.0	355.4	346.0	341.7	323.3	299.1	291.7	276.9
60°	284.3	309.7	327.0	342.8	343.3	340.7	333.3	312.3	292.2	278.5	268.0
62.5°	272.7	296.5	310.2	324.9	333.9	326.5	319.1	299.6	278.0	262.7	250.6
65°	255.9	277.5	289.1	298.1	308.1	307.0	294.3	280.1	257.5	245.4	233.8
67.5°	230.1	249.1	264.8	273.3	279.6	278.0	268.5	258.5	235.4	223.3	214.9
70°	199.1	218.5	228.5	233.3	239.6	242.7	235.4	230.6	210.1	194.3	186.4
72.5°	160.0	172.7	187.5	191.7	194.3	196.4	196.4	192.2	171.1	164.8	151.1
75°	117.9	127.9	139.0	139.0	143.7	144.3	145.3	142.7	126.9	118.5	115.3
77.5°	80.1	87.4	96.4	100.1	103.2	102.7	102.2	94.8	86.4	82.7	79.5
80°	52.1	59.5	63.7	68.5	71.7	71.1	72.2	66.9	63.2	56.9	57.9
82.5°	31.0	36.8	41.0	46.8	46.8	48.4	48.4	46.8	43.1	40.0	40.0
85°	14.7	19.5	22.1	25.8	27.9	28.4	25.3	21.6	17.9	16.3	17.9
87.5°	2.6	3.7	5.3	4.7	5.8	5.3	5.3	5.3	5.3	4.2	4.7
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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CATALOG NUMBER: GALN-SA1B-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7
2.5°	1429.6	1455.9	1474.4	1504.9	1557.5	1599.7	1642.9	1675.0	1678.7	1688.1
5°	1209.0	1223.2	1270.1	1331.1	1374.4	1445.4	1491.3	1574.4	1605.5	1638.7
7.5°	944.1	967.3	1030.0	1071.0	1165.8	1254.8	1346.9	1449.6	1490.7	1495.5
10°	796.2	829.9	872.5	938.3	989.9	1088.9	1203.7	1318.0	1363.8	1371.7
12.5°	699.3	742.4	799.3	846.7	896.2	982.5	1092.6	1233.7	1293.2	1329.0
15°	606.1	650.8	713.5	779.3	823.0	926.2	1055.8	1214.7	1292.2	1323.8
17.5°	510.2	551.9	603.4	674.6	762.5	878.3	1050.0	1278.0	1362.8	1399.6
20°	428.1	451.3	511.3	584.5	694.5	829.3	1052.1	1371.2	1495.5	1511.8
22.5°	395.9	401.2	425.0	492.3	612.9	779.3	1089.4	1503.4	1644.5	1698.1
25°	371.2	370.2	376.5	421.8	553.4	759.8	1126.4	1625.0	1809.8	1868.3
27.5°	357.5	347.0	347.5	390.2	511.3	728.2	1173.7	1764.5	1997.3	2023.0
30°	350.7	348.6	342.3	359.6	465.5	680.9	1181.6	1901.9	2107.8	2145.2
32.5°	346.5	326.0	318.1	324.4	422.3	629.2	1211.1	1992.5	2244.7	2228.4
35°	325.4	307.0	301.8	308.1	391.7	600.3	1191.6	2071.5	2347.4	2374.8
37.5°	317.5	301.2	290.6	285.4	363.3	576.1	1181.6	2193.2	2447.0	2512.7
40°	310.2	292.8	280.1	274.8	341.2	544.0	1178.4	2286.8	2561.7	2601.2
42.5°	301.8	290.6	276.4	266.9	314.4	511.8	1142.1	2315.9	2597.0	2639.6
44°	299.1	282.2	267.5	264.3	303.9	495.5	1134.8	2342.2	2627.5	2692.3
45°	296.5	280.6	263.8	259.6	300.2	486.5	1124.8	2348.5	2678.1	2690.2
47.5°	289.1	279.0	262.7	251.2	292.2	467.1	1094.7	2312.7	2626.5	2628.6
50°	283.2	271.7	254.8	232.2	281.7	450.8	1108.4	2299.5	2502.2	2506.9
52.5°	276.9	259.6	250.1	211.2	264.3	437.1	1137.4	2359.0	2516.4	2515.3
55°	269.6	250.6	227.5	193.3	235.4	419.7	1207.4	2476.4	2648.1	2666.0
57.5°	258.0	241.7	208.5	177.5	202.2	386.5	1184.8	2251.6	2436.4	2439.6
60°	242.7	227.5	189.1	165.3	165.8	304.9	1059.4	1754.5	1922.4	1968.3
62.5°	228.0	219.6	172.7	147.9	141.1	242.7	895.7	1458.0	1650.2	1688.1
65°	210.6	190.1	158.5	134.8	121.1	170.1	634.5	1089.4	1287.4	1338.5
67.5°	188.5	166.4	139.5	118.5	103.7	113.7	327.5	619.2	819.9	849.8
70°	164.8	144.3	117.4	100.1	83.8	78.5	144.3	295.4	448.1	479.2
72.5°	135.3	116.4	93.7	79.0	62.7	54.2	48.4	79.0	159.0	184.9
75°	98.0	84.8	70.6	56.3	44.2	34.7	28.4	23.7	26.3	28.4
77.5°	72.2	61.6	52.1	40.0	31.0	24.7	19.5	14.7	14.2	13.7
80°	56.3	50.0	41.6	32.1	24.2	18.4	13.7	10.0	8.9	8.9
82.5°	44.2	41.0	34.2	26.3	20.0	14.7	10.0	6.8	5.8	5.8
85°	16.8	16.8	24.7	21.6	15.3	10.5	6.8	3.7	3.2	3.2
87.5°	4.2	4.2	4.2	4.2	3.7	3.2	3.2	1.6	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)