

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: P648215

Luminaire Tested: **GALN-SA1B-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648215  
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-835-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 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: 3357.5 lumens  
Efficiency: N/A  
Efficacy: 76.3 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

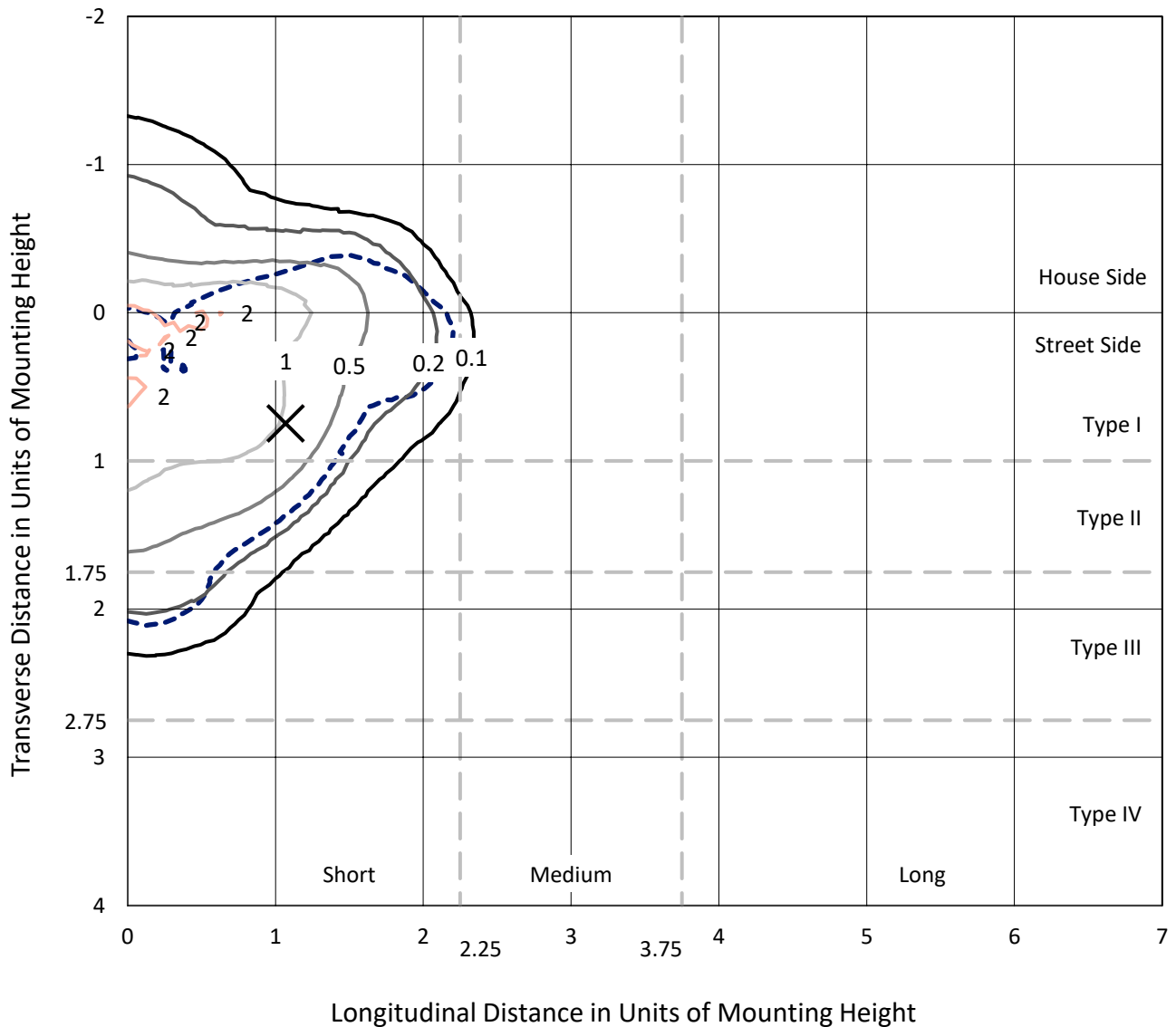
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

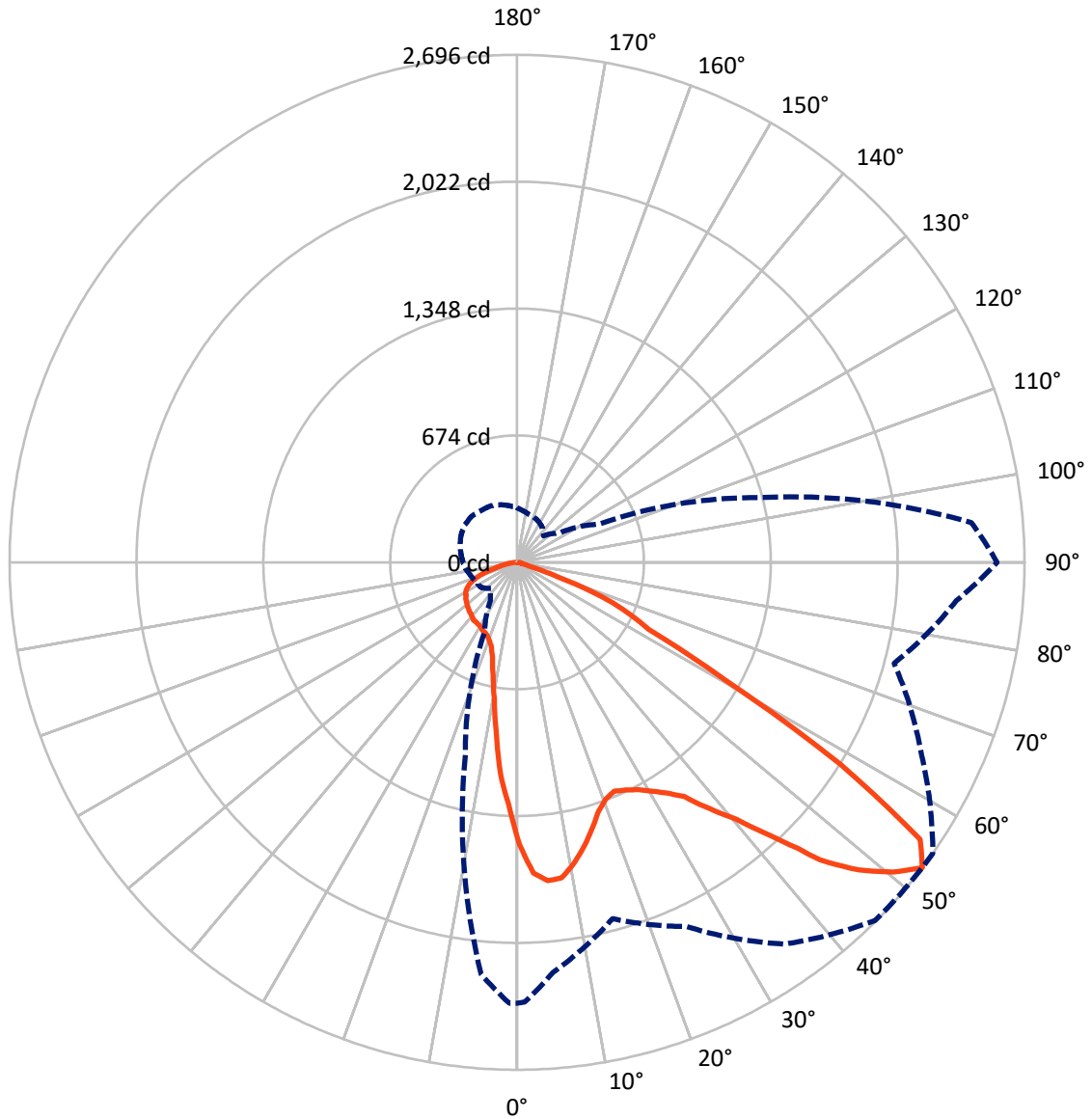
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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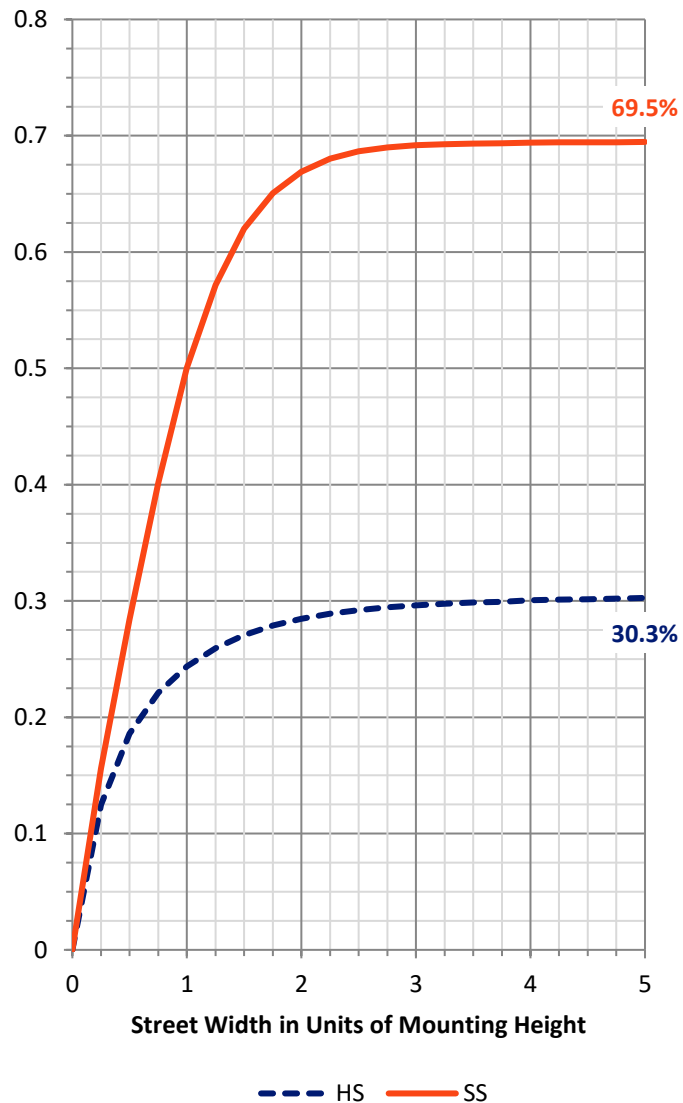
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1024.2	0.0	1024.2
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	2333.3	0.0	2333.3
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	3357.5	0.0	3357.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.4	3.4
10°-20°	246.7	7.3
20°-30°	374.1	11.1
30°-40°	540.5	16.1
40°-50°	722.3	21.5
50°-60°	806.2	24.0
60°-70°	442.2	13.2
70°-80°	95.6	2.8
80°-90°	15.5	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°	3357.5	100.0
0°-180°	3357.5	100.0

**Coefficient of Utilization**



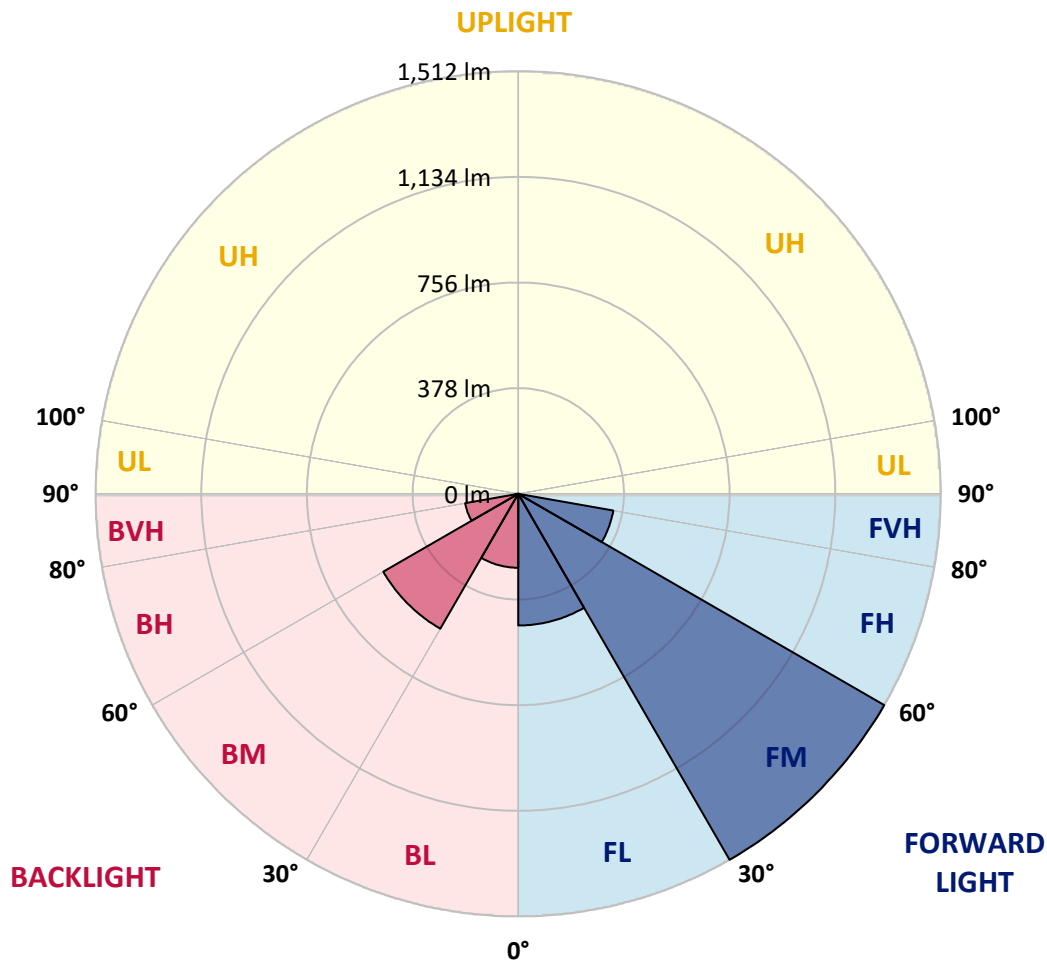
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.8	14.0			
FM (30°-60°)	1511.7	45.0			
FH (60°-80°)	345.1	10.3			G0/660
FVH (80°-90°)	5.7	0.2			G0/10
BL (0°-30°)	264.4	7.9	B1/500		
BM (30°-60°)	557.3	16.6	B1/1000		
BH (60°-80°)	192.8	5.7	B1/500		G1/500
BVH (80°-90°)	9.7	0.3			G0/10
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°	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7
2.5°	1571.7	1562.9	1570.8	1608.0	1629.6	1644.3	1653.6	1652.1	1616.8	1582.5	1582.5
5°	1525.7	1514.4	1530.5	1614.9	1699.7	1707.0	1719.3	1699.2	1647.2	1584.5	1506.0
7.5°	1392.3	1400.6	1427.6	1538.4	1648.7	1704.1	1718.8	1693.3	1609.0	1491.8	1376.6
10°	1277.1	1296.7	1359.0	1478.6	1580.1	1652.1	1668.3	1632.6	1565.8	1422.2	1319.3
12.5°	1237.4	1225.2	1294.2	1413.9	1511.0	1549.6	1557.0	1559.5	1514.4	1386.9	1261.4
15°	1232.5	1240.4	1294.2	1385.0	1444.8	1446.7	1459.0	1478.1	1483.9	1411.0	1288.3
17.5°	1303.1	1293.8	1349.2	1421.2	1392.8	1364.4	1367.3	1394.8	1443.3	1431.6	1373.1
20°	1407.5	1428.6	1472.2	1464.8	1388.4	1316.3	1316.8	1342.8	1438.4	1516.8	1491.3
22.5°	1581.0	1601.6	1634.0	1545.3	1388.4	1302.1	1285.5	1320.8	1469.8	1618.3	1624.6
25°	1739.4	1777.2	1785.9	1681.6	1458.0	1315.4	1304.6	1339.3	1501.2	1717.4	1777.6
27.5°	1883.5	1897.3	1936.0	1769.3	1496.7	1324.1	1323.2	1367.8	1540.9	1766.8	1914.4
30°	1997.3	1995.8	2017.9	1824.7	1558.5	1373.7	1326.1	1410.4	1592.8	1848.7	2040.9
32.5°	2074.7	2091.4	2138.0	1901.7	1584.5	1420.8	1383.5	1460.5	1656.0	1887.4	2130.2
35°	2211.0	2239.9	2181.1	1944.3	1666.9	1467.3	1423.7	1528.6	1687.4	1929.6	2239.5
37.5°	2339.4	2317.4	2257.6	1967.4	1720.3	1553.6	1512.9	1660.4	1785.0	2021.3	2312.0
40°	2421.8	2421.3	2314.9	1986.0	1758.0	1685.5	1683.1	1794.3	1904.6	2079.2	2393.4
42.5°	2457.6	2491.9	2338.5	1984.0	1837.5	1845.3	1894.8	1994.3	1989.4	2090.9	2391.4
44°	2506.6	2527.2	2379.1	1988.4	1890.4	1953.1	2069.9	2133.0	2063.4	2084.5	2389.0
45°	2504.7	2506.1	2321.4	1994.3	1935.5	2043.3	2147.8	2254.6	2128.7	2070.8	2421.3
47.5°	2447.3	2430.7	2272.3	1950.7	2076.2	2281.6	2378.2	2442.9	2209.1	2041.4	2381.1
50°	2334.0	2314.9	2153.2	1932.1	2105.6	2429.6	2563.0	2586.6	2282.1	2012.5	2341.4
52.5°	2341.9	2336.6	2187.0	1960.0	2135.0	2476.2	2690.0	2695.9	2365.0	2073.2	2341.9
55°	2482.1	2463.5	2284.1	1994.8	2113.5	2421.8	2609.1	2598.8	2337.0	2036.5	2385.0
57.5°	2271.3	2283.5	2149.7	1857.0	1849.7	1968.9	2051.2	2025.7	1950.2	1837.9	2218.9
60°	1832.5	1867.4	1880.1	1553.1	1395.7	1334.5	1310.0	1264.9	1277.6	1509.9	1949.2
62.5°	1571.7	1569.8	1649.7	1408.0	914.3	786.4	774.6	784.9	931.9	1486.4	1909.0
65°	1246.2	1279.6	1304.1	1193.3	723.6	583.9	583.4	648.6	806.5	1242.3	1541.3
67.5°	791.2	834.9	865.3	763.3	483.9	415.7	404.4	482.9	558.9	814.8	928.0
70°	446.2	466.7	480.4	440.3	307.9	215.7	203.0	221.6	337.8	527.5	550.1
72.5°	172.1	181.4	200.1	201.5	116.2	69.6	56.4	67.7	142.2	208.8	199.0
75°	26.5	28.4	40.2	48.1	33.4	25.5	26.9	28.0	39.7	53.9	45.1
77.5°	12.8	12.8	12.3	14.3	16.7	18.2	19.6	21.5	23.6	26.0	25.0
80°	8.3	8.3	8.3	9.8	12.3	14.7	16.7	17.6	18.6	20.6	19.6
82.5°	5.4	5.4	5.4	7.4	9.8	12.3	13.2	15.7	17.6	20.6	19.1
85°	3.0	3.0	3.0	4.9	7.4	10.3	9.8	7.8	4.4	0.5	1.0
87.5°	1.0	1.0	1.0	1.0	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°	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7
2.5°	1541.3	1518.8	1516.8	1470.7	1429.5	1409.5	1393.3	1348.2	1358.0	1332.0	1331.5
5°	1466.8	1420.8	1346.2	1284.9	1223.7	1211.4	1158.0	1111.4	1112.9	1079.5	1085.4
7.5°	1333.0	1301.1	1210.4	1114.4	1032.9	975.1	924.6	894.2	855.5	842.3	835.4
10°	1248.2	1209.0	1107.0	986.3	895.2	864.3	815.8	788.8	749.1	729.5	715.7
12.5°	1210.9	1153.5	1026.1	903.5	842.7	810.9	769.7	720.7	673.6	655.4	630.5
15°	1214.8	1146.2	1002.6	870.2	797.2	735.4	698.6	644.2	596.2	564.3	546.1
17.5°	1274.2	1190.8	1013.4	844.7	739.8	662.3	590.2	531.4	493.2	469.2	463.3
20°	1414.3	1301.1	1031.4	803.5	682.5	585.8	497.1	435.8	406.4	405.9	406.4
22.5°	1531.1	1418.8	1068.2	779.0	625.1	487.8	399.6	379.9	374.0	386.3	387.8
25°	1688.4	1551.1	1131.5	766.2	572.1	415.7	361.3	354.0	353.4	369.2	369.7
27.5°	1849.7	1666.9	1169.3	729.0	518.2	378.5	338.3	336.8	344.7	361.3	359.9
30°	1959.5	1763.9	1237.4	684.4	454.5	345.6	328.9	330.9	341.7	354.5	356.4
32.5°	2087.5	1859.5	1255.1	659.9	415.2	318.1	306.4	310.9	324.6	344.7	355.4
35°	2234.1	1927.2	1282.0	626.6	400.5	297.1	291.2	296.1	312.8	326.0	337.8
37.5°	2342.4	2046.8	1286.9	600.6	384.4	285.3	276.0	292.2	302.0	320.6	326.5
40°	2422.8	2133.6	1299.6	584.4	371.6	270.1	270.1	280.9	294.2	311.3	323.1
42.5°	2474.3	2196.8	1308.9	569.6	347.1	265.8	263.2	274.0	291.7	308.3	313.7
44°	2505.7	2223.8	1299.6	555.9	340.2	260.3	260.3	269.7	283.4	302.9	309.4
45°	2513.5	2257.6	1279.0	555.5	331.9	253.9	253.0	270.6	279.9	304.0	307.9
47.5°	2543.9	2299.3	1281.5	539.8	311.8	238.7	255.9	263.7	272.1	293.2	306.4
50°	2542.9	2325.3	1276.1	516.7	297.1	221.6	250.0	258.9	267.2	288.8	294.2
52.5°	2549.8	2422.3	1325.6	480.0	270.6	199.5	230.4	250.0	260.3	278.4	289.7
55°	2546.3	2477.7	1374.6	452.5	233.3	186.3	213.8	236.8	251.5	270.6	276.0
57.5°	2325.7	2190.0	1272.2	401.1	193.2	170.6	190.2	223.1	241.7	261.3	268.2
60°	1900.2	1687.9	1049.1	295.1	158.9	156.9	177.0	218.6	226.5	243.7	255.4
62.5°	1756.0	1480.6	831.9	225.5	135.8	143.7	163.3	197.6	209.8	230.9	241.7
65°	1374.2	983.4	515.2	152.5	119.6	129.0	147.6	173.0	193.2	212.7	225.5
67.5°	813.9	537.3	254.9	106.9	104.5	114.2	133.3	152.5	175.5	197.1	203.4
70°	443.2	264.3	108.8	81.4	88.7	97.6	116.2	129.4	151.5	168.2	178.9
72.5°	142.2	80.4	54.4	60.3	67.7	78.0	89.3	105.4	121.1	130.9	139.7
75°	34.3	33.8	38.8	42.1	49.0	56.8	66.2	74.5	86.8	96.1	103.9
77.5°	24.0	26.0	29.9	34.8	37.3	40.2	46.1	52.5	57.9	64.7	69.6
80°	18.6	20.1	23.0	25.5	28.0	30.4	33.4	35.8	39.2	43.6	46.1
82.5°	17.6	18.6	21.5	23.0	22.1	21.5	23.6	24.5	25.0	26.5	28.0
85°	1.5	0.0	1.0	3.4	8.3	12.3	13.2	13.2	12.8	13.7	13.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	1.5
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°	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7
2.5°	1325.6	1308.9	1315.4	1323.2	1311.9	1285.9	1292.8	1289.8	1316.3	1314.3	1340.8
5°	1111.4	1085.4	1088.4	1126.6	1114.4	1127.6	1101.1	1097.7	1102.5	1105.0	1109.4
7.5°	850.6	847.1	876.6	908.9	924.1	908.4	882.4	876.6	871.2	860.4	884.9
10°	694.2	695.1	693.2	717.7	734.8	731.5	715.7	713.8	703.5	699.6	713.3
12.5°	619.7	606.4	600.1	592.2	605.5	614.3	607.5	602.5	603.0	607.9	609.9
15°	547.6	539.3	525.5	516.7	523.1	518.7	516.2	526.0	523.6	522.6	534.4
17.5°	466.7	473.6	472.6	462.8	471.1	467.7	467.2	460.3	451.0	444.2	448.1
20°	413.3	426.0	435.8	436.3	440.8	440.3	432.9	411.8	405.0	403.5	404.4
22.5°	394.2	401.1	412.8	429.5	429.5	421.6	412.8	388.3	381.9	375.1	372.1
25°	379.0	392.2	407.4	409.4	417.2	409.8	395.6	383.4	370.1	360.8	360.8
27.5°	371.1	385.9	397.1	400.5	411.3	405.4	390.7	375.1	359.3	358.8	350.5
30°	367.7	381.4	388.8	397.1	402.0	392.7	388.3	371.6	356.0	352.0	338.3
32.5°	357.4	377.0	390.7	388.8	392.7	388.8	382.4	368.6	351.0	342.2	340.7
35°	345.6	365.3	379.9	390.2	392.7	384.4	380.5	361.8	337.8	333.4	318.1
37.5°	339.3	351.0	369.2	385.9	389.2	384.8	371.6	352.5	328.5	323.5	310.3
40°	331.4	346.6	360.8	374.6	384.8	374.0	358.8	340.2	329.4	314.8	310.9
42.5°	325.5	342.7	354.5	369.7	381.4	367.2	349.5	336.8	321.6	311.8	300.5
44°	323.5	339.3	347.1	365.7	375.5	364.7	350.0	336.8	319.2	310.3	300.5
45°	316.7	338.3	346.6	363.3	371.6	362.8	344.1	330.9	318.1	307.4	297.1
47.5°	309.8	324.6	338.7	352.0	357.9	354.9	339.3	323.1	307.9	301.5	291.7
50°	307.9	322.6	335.8	348.0	354.9	349.1	334.8	319.2	301.5	291.2	282.9
52.5°	298.1	316.2	330.9	334.8	343.7	340.2	329.4	312.3	295.6	286.8	279.9
55°	283.8	302.9	323.1	328.0	340.7	335.4	319.2	302.9	288.8	275.5	266.7
57.5°	278.4	297.1	316.7	323.1	330.9	322.1	318.1	301.0	278.4	271.6	257.8
60°	264.7	288.3	304.4	319.2	319.6	317.2	310.3	290.7	272.1	259.3	249.5
62.5°	253.9	276.0	288.8	302.5	310.9	304.0	297.1	279.0	258.9	244.6	233.3
65°	238.3	258.4	269.1	277.5	286.8	285.8	274.0	260.8	239.8	228.5	217.7
67.5°	214.2	231.9	246.6	254.5	260.3	258.9	250.0	240.7	219.2	207.9	200.1
70°	185.3	203.4	212.7	217.2	223.1	226.0	219.2	214.7	195.6	180.9	173.5
72.5°	149.0	160.8	174.5	178.4	180.9	182.8	182.8	178.9	159.3	153.5	140.7
75°	109.8	119.1	129.4	129.4	133.8	134.4	135.3	132.9	118.2	110.3	107.3
77.5°	74.5	81.4	89.7	93.2	96.1	95.6	95.1	88.2	80.4	77.0	74.0
80°	48.5	55.4	59.4	63.7	66.7	66.2	67.2	62.2	58.8	52.9	53.9
82.5°	28.9	34.3	38.2	43.6	43.6	45.1	45.1	43.6	40.2	37.3	37.3
85°	13.7	18.2	20.6	24.0	26.0	26.5	23.6	20.1	16.7	15.2	16.7
87.5°	2.4	3.4	4.9	4.4	5.4	4.9	4.9	4.9	4.9	3.9	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648215

CATALOG NUMBER: GALN-SA1B-835-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7
2.5°	1331.0	1355.5	1372.7	1401.1	1450.1	1489.3	1529.6	1559.5	1562.9	1571.7
5°	1125.6	1138.9	1182.5	1239.3	1279.6	1345.7	1388.4	1465.9	1494.7	1525.7
7.5°	879.0	900.6	958.9	997.2	1085.4	1168.2	1254.1	1349.7	1387.9	1392.3
10°	741.3	772.7	812.4	873.6	921.7	1013.8	1120.7	1227.1	1269.7	1277.1
12.5°	651.1	691.2	744.2	788.3	834.4	914.8	1017.3	1148.7	1204.0	1237.4
15°	564.3	606.0	664.3	725.5	766.2	862.3	983.0	1131.0	1203.1	1232.5
17.5°	475.0	513.8	561.8	628.0	709.9	817.8	977.6	1189.8	1268.8	1303.1
20°	398.5	420.2	476.1	544.2	646.6	772.1	979.5	1276.6	1392.3	1407.5
22.5°	368.6	373.6	395.6	458.4	570.7	725.5	1014.3	1399.7	1531.1	1581.0
25°	345.6	344.7	350.5	392.7	515.2	707.4	1048.7	1512.9	1685.0	1739.4
27.5°	332.9	323.1	323.5	363.3	476.1	678.0	1092.8	1642.8	1859.5	1883.5
30°	326.5	324.6	318.7	334.8	433.4	633.9	1100.1	1770.8	1962.4	1997.3
32.5°	322.6	303.5	296.1	302.0	393.1	585.8	1127.6	1855.1	2089.9	2074.7
35°	302.9	285.8	280.9	286.8	364.7	558.9	1109.4	1928.6	2185.5	2211.0
37.5°	295.6	280.4	270.6	265.8	338.3	536.4	1100.1	2041.9	2278.2	2339.4
40°	288.8	272.6	260.8	255.9	317.7	506.4	1097.1	2129.1	2385.0	2421.8
42.5°	280.9	270.6	257.4	248.5	292.7	476.5	1063.3	2156.1	2417.9	2457.6
44°	278.4	262.8	249.1	246.1	282.9	461.3	1056.5	2180.7	2446.3	2506.6
45°	276.0	261.3	245.6	241.7	279.5	453.0	1047.2	2186.5	2493.4	2504.7
47.5°	269.1	259.8	244.6	233.9	272.1	434.9	1019.2	2153.2	2445.4	2447.3
50°	263.7	253.0	237.2	216.2	262.3	419.7	1032.0	2140.9	2329.7	2334.0
52.5°	257.8	241.7	232.9	196.6	246.1	406.9	1058.9	2196.3	2342.9	2341.9
55°	251.0	233.3	211.8	179.9	219.2	390.7	1124.2	2305.6	2465.4	2482.1
57.5°	240.2	225.0	194.1	165.2	188.2	359.9	1103.1	2096.3	2268.4	2271.3
60°	226.0	211.8	176.0	153.9	154.4	283.8	986.3	1633.5	1789.9	1832.5
62.5°	212.3	204.4	160.8	137.7	131.4	226.0	833.9	1357.5	1536.4	1571.7
65°	196.1	177.0	147.6	125.5	112.8	158.3	590.8	1014.3	1198.6	1246.2
67.5°	175.5	155.0	129.9	110.3	96.5	105.9	304.9	576.5	763.3	791.2
70°	153.5	134.4	109.3	93.2	78.0	73.1	134.4	275.1	417.2	446.2
72.5°	126.0	108.4	87.2	73.5	58.3	50.5	45.1	73.5	148.1	172.1
75°	91.2	78.9	65.7	52.5	41.2	32.3	26.5	22.1	24.5	26.5
77.5°	67.2	57.4	48.5	37.3	28.9	23.0	18.2	13.7	13.2	12.8
80°	52.5	46.6	38.8	29.9	22.6	17.1	12.8	9.3	8.3	8.3
82.5°	41.2	38.2	31.9	24.5	18.6	13.7	9.3	6.3	5.4	5.4
85°	15.7	15.7	23.0	20.1	14.3	9.8	6.3	3.4	3.0	3.0
87.5°	3.9	3.9	3.9	3.9	3.4	3.0	3.0	1.5	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)