

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: P650804

Luminaire Tested: **GALN-SA3C-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650804
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-SA3C-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH 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: 13145.7 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

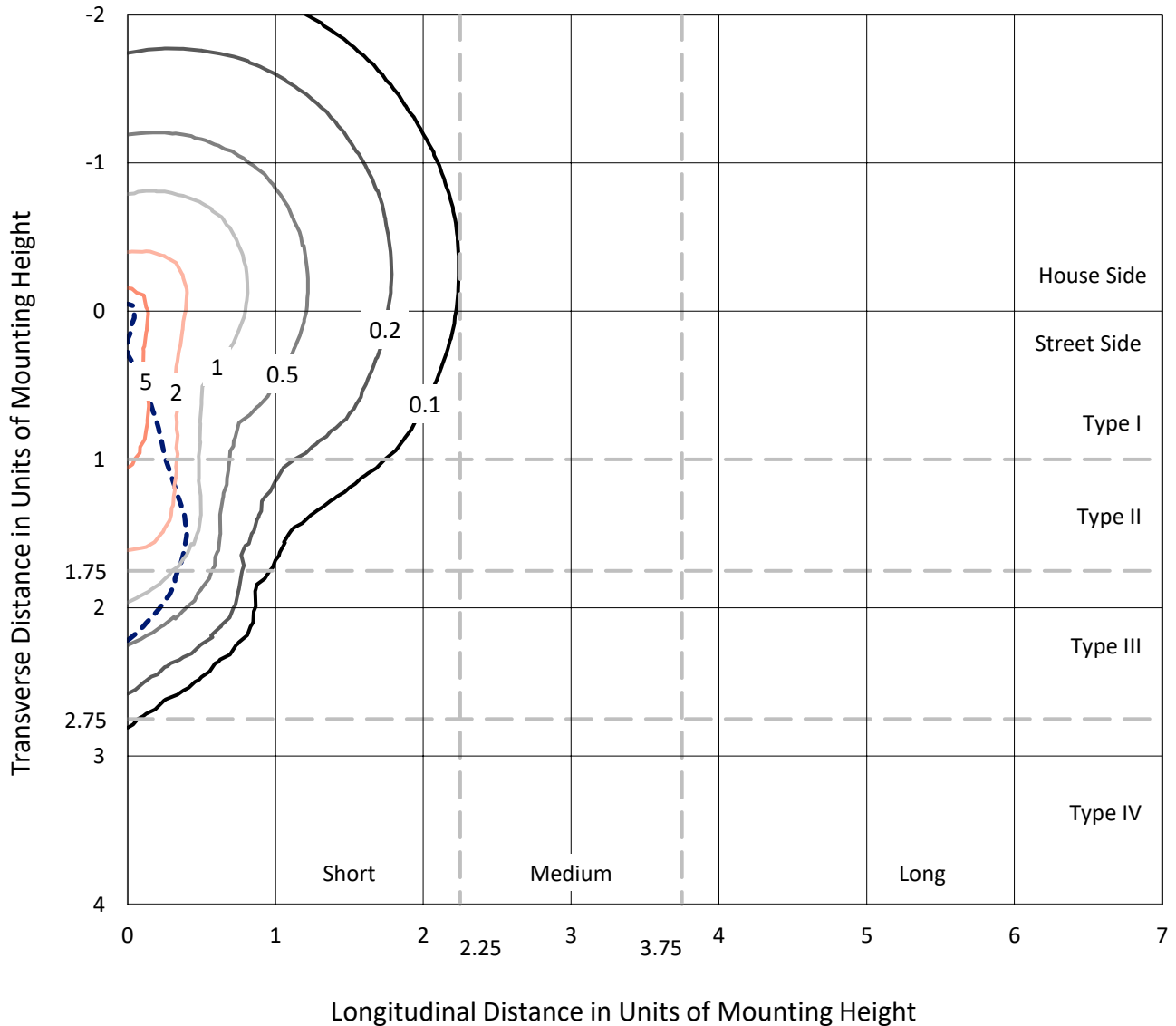
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

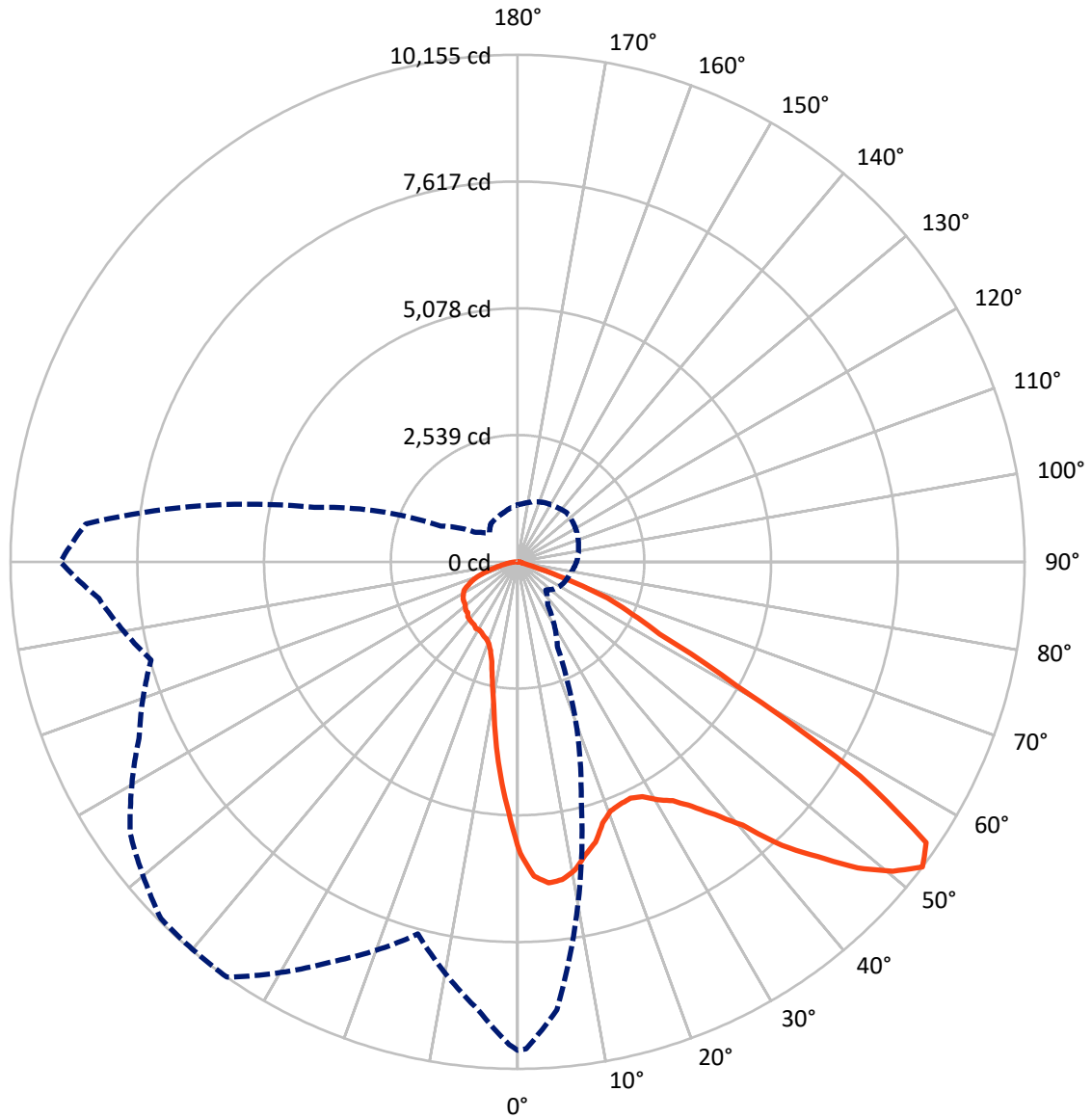
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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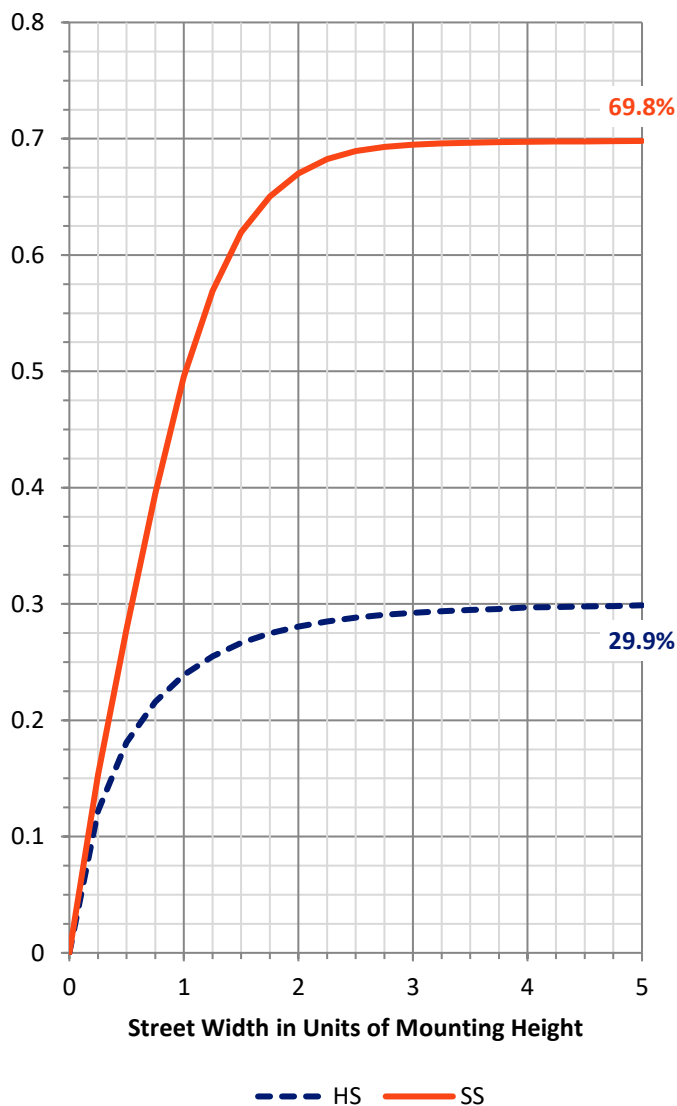
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3962.9	0.0	3962.9
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	9182.8	0.0	9182.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	13145.7	0.0	13145.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.1	3.4
10°-20°	964.9	7.3
20°-30°	1457.9	11.1
30°-40°	2106.7	16.0
40°-50°	2803.6	21.3
50°-60°	3135.9	23.9
60°-70°	1767.4	13.4
70°-80°	394.0	3.0
80°-90°	70.2	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°	13145.7	100.0
0°-180°	13145.7	100.0

Coefficient of Utilization



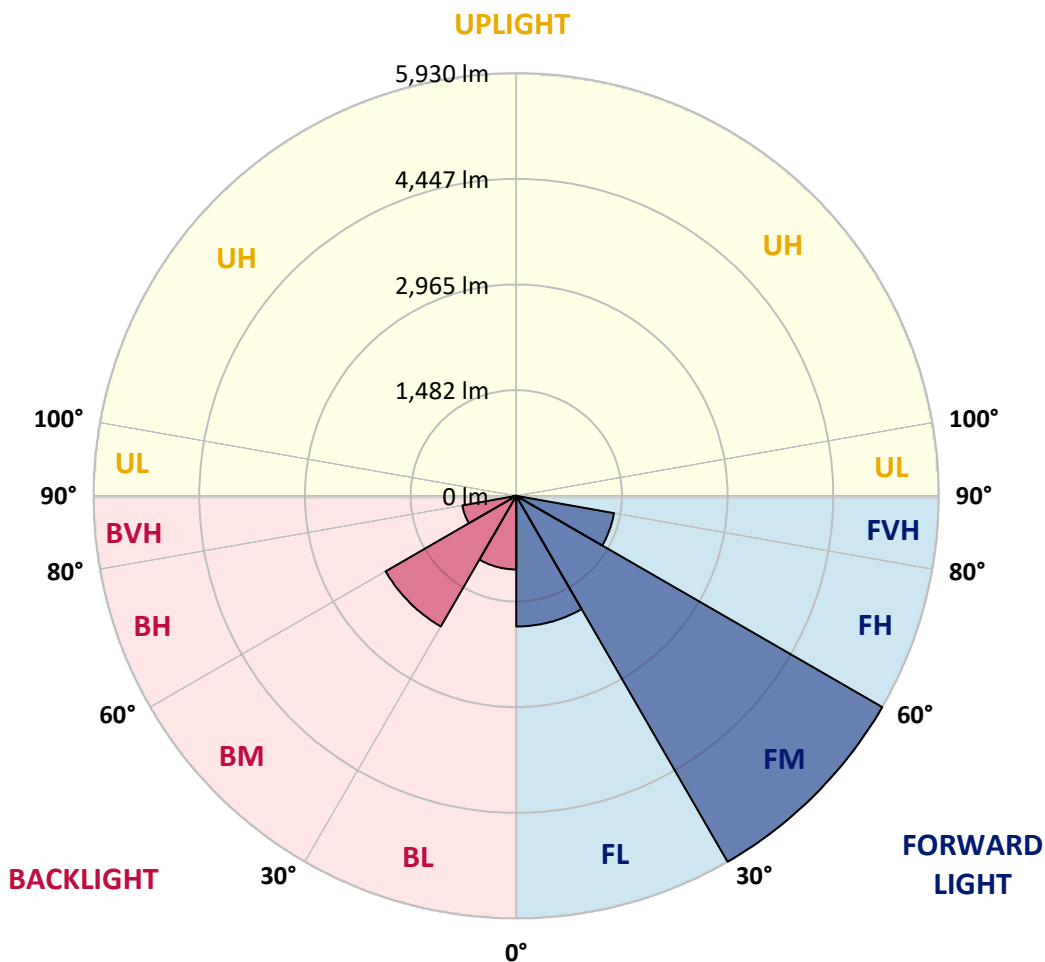
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1834.4	14.0			
FM (30°-60°)	5929.7	45.1			
FH (60°-80°)	1393.2	10.6			G1/1800
FVH (80°-90°)	25.4	0.2			G1/100
BL (0°-30°)	1033.4	7.9	B3/2500		
BM (30°-60°)	2116.6	16.1	B2/2500		
BH (60°-80°)	768.1	5.8	B2/1000		G2/1000
BVH (80°-90°)	44.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1
2.5°	5931.3	6026.6	5923.7	5740.8	5611.2	5493.1	5369.2	5344.5	5182.5	5153.9	5035.8
5°	5594.1	5573.1	5447.3	5207.3	4942.5	4702.4	4525.2	4353.7	4237.5	4102.1	4092.6
7.5°	5184.4	5062.5	4990.1	4626.2	4298.4	3921.2	3759.2	3498.2	3416.2	3294.3	3231.5
10°	4818.6	4729.0	4559.5	4195.6	3738.2	3488.6	3315.3	3174.3	3079.0	2953.3	2795.1
12.5°	4637.6	4601.4	4410.9	3846.9	3507.7	3241.0	3119.0	2981.8	2819.9	2617.9	2539.8
15°	4670.0	4548.0	4403.2	3780.2	3311.4	3054.3	2859.9	2688.4	2480.8	2288.3	2175.9
17.5°	4911.9	4818.6	4529.0	3822.1	3237.2	2865.6	2513.2	2259.7	2073.0	1899.7	1821.5
20°	5388.3	5253.0	4927.2	3875.4	3077.1	2602.7	2198.8	1886.3	1686.2	1594.8	1568.1
22.5°	5916.1	5836.0	5315.9	3995.5	2949.5	2358.8	1865.3	1552.8	1478.6	1453.8	1503.3
25°	6558.1	6350.5	5919.9	4191.7	2850.4	2151.1	1583.4	1409.9	1371.8	1396.6	1453.8
27.5°	7045.9	6990.6	6342.8	4376.6	2715.1	1901.5	1425.2	1310.9	1322.3	1347.0	1400.4
30°	7625.2	7345.0	6752.5	4504.2	2593.1	1730.0	1314.7	1284.2	1295.6	1337.5	1364.2
32.5°	7973.9	7869.0	7009.7	4696.6	2452.2	1581.4	1229.0	1200.4	1217.5	1280.4	1343.2
35°	8417.7	8210.1	7327.9	4746.2	2353.1	1522.4	1168.0	1147.0	1187.0	1230.8	1301.4
37.5°	8936.0	8793.1	7768.1	4711.9	2299.7	1461.4	1116.5	1107.0	1135.6	1196.6	1278.5
40°	9242.8	9198.9	7998.6	4732.8	2215.9	1408.0	1057.5	1068.9	1127.9	1175.5	1255.6
42.5°	9538.1	9252.3	8339.6	4725.2	2162.5	1335.7	1063.2	1049.8	1095.6	1150.8	1227.0
45°	9602.9	9319.0	8419.7	4671.8	2097.8	1265.1	1019.4	1025.1	1080.3	1148.9	1198.4
47.5°	9561.0	9351.4	8568.3	4656.6	2036.8	1215.6	954.5	1023.2	1055.5	1110.8	1181.3
50°	9532.4	9521.0	8694.0	4729.0	1954.9	1137.5	876.5	998.4	1030.8	1086.1	1162.3
52.5°	9783.9	9759.1	9008.5	4919.6	1890.1	1053.7	796.4	935.5	1013.7	1067.0	1141.3
55°	9936.3	9827.7	9547.6	5153.9	1781.5	943.2	741.2	857.4	971.7	1019.4	1095.6
57.5°	8937.9	8863.6	8636.9	4810.9	1598.6	798.4	672.5	777.3	914.6	988.8	1067.0
60°	7436.5	7320.3	6739.2	4088.9	1179.4	621.2	630.7	714.5	899.3	927.9	1019.4
62.5°	7011.6	6723.9	5933.2	3290.5	905.0	533.5	565.9	657.3	819.3	866.9	958.4
65°	5563.6	5350.2	4245.1	2375.9	605.9	463.0	516.4	592.6	706.9	800.2	884.1
67.5°	3482.9	3279.1	2265.4	1124.2	423.0	396.3	461.1	541.1	634.5	718.3	811.6
70°	1819.6	1596.6	1046.0	405.9	291.5	323.9	384.8	461.1	552.5	621.2	693.6
72.5°	678.3	550.6	341.0	175.3	201.9	247.7	312.5	367.8	432.5	516.4	556.3
75°	104.8	89.6	87.6	106.7	137.2	179.1	222.9	278.2	335.3	388.7	415.4
77.5°	49.5	47.6	53.3	70.5	91.4	127.7	162.0	215.3	261.0	295.4	310.6
80°	32.4	30.4	34.3	47.6	68.6	95.3	129.6	165.8	207.6	236.2	232.5
82.5°	19.1	20.9	20.9	32.4	47.6	68.6	93.4	125.7	154.3	179.1	163.8
85°	11.4	9.5	9.5	19.1	32.4	55.3	78.1	53.3	55.3	55.3	62.9
87.5°	3.8	3.8	3.8	1.9	3.8	3.8	5.7	9.5	11.4	13.4	17.2
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°	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1
2.5°	5032.0	5091.1	5070.1	4995.8	5053.0	5062.5	5024.4	5155.8	5180.6	5140.6	5152.1
5°	4079.4	4094.6	4128.9	4201.3	4252.7	4313.7	4313.7	4317.5	4266.1	4395.6	4357.5
7.5°	3178.1	3187.6	3227.7	3382.0	3425.8	3542.0	3591.6	3557.3	3454.4	3410.5	3446.8
10°	2743.7	2688.4	2675.1	2694.1	2793.2	2842.7	2884.7	2873.3	2856.1	2821.8	2783.7
12.5°	2454.0	2414.1	2381.6	2336.0	2341.7	2389.3	2421.7	2395.0	2402.7	2410.2	2421.7
15°	2139.7	2111.1	2093.9	2025.4	2017.7	2050.1	2061.5	2076.8	2105.4	2107.3	2093.9
17.5°	1806.2	1781.5	1819.6	1857.7	1831.0	1833.0	1853.9	1867.2	1859.6	1825.3	1808.2
20°	1577.6	1604.3	1642.4	1678.6	1707.1	1724.3	1732.0	1711.0	1686.2	1615.7	1613.8
22.5°	1510.9	1545.3	1577.6	1632.9	1659.5	1703.4	1663.3	1615.7	1581.4	1547.1	1507.2
25°	1461.4	1490.0	1554.8	1575.7	1627.2	1663.3	1634.7	1587.1	1528.1	1478.6	1448.0
27.5°	1425.2	1457.6	1499.5	1556.7	1596.6	1617.7	1589.1	1570.0	1509.0	1450.0	1406.2
30°	1402.3	1436.6	1512.9	1560.5	1594.8	1611.9	1562.4	1539.5	1495.7	1446.2	1408.0
32.5°	1387.1	1417.6	1482.3	1543.3	1566.2	1566.2	1573.8	1547.1	1486.1	1402.3	1369.9
35°	1337.5	1379.5	1432.8	1503.3	1545.3	1570.0	1531.9	1501.4	1461.4	1375.6	1316.6
37.5°	1308.9	1337.5	1406.2	1472.8	1509.0	1535.7	1520.4	1467.1	1413.7	1343.2	1295.6
40°	1278.5	1324.2	1385.2	1448.0	1488.1	1514.7	1503.3	1440.5	1375.6	1308.9	1276.6
42.5°	1257.5	1288.0	1350.9	1421.4	1469.0	1520.4	1486.1	1408.0	1362.3	1270.8	1234.7
45°	1240.4	1289.9	1356.6	1385.2	1434.7	1488.1	1427.1	1379.5	1326.1	1259.4	1229.0
47.5°	1219.4	1265.1	1308.9	1385.2	1408.0	1432.8	1421.4	1345.2	1299.4	1227.0	1206.1
50°	1211.8	1229.0	1308.9	1350.9	1383.3	1408.0	1377.6	1320.4	1276.6	1202.3	1156.5
52.5°	1181.3	1213.7	1265.1	1320.4	1360.4	1390.9	1341.4	1305.1	1246.1	1168.0	1139.4
55°	1143.2	1162.3	1253.7	1310.9	1331.8	1352.7	1333.7	1274.7	1213.7	1133.7	1105.1
57.5°	1093.6	1137.5	1211.8	1291.8	1318.5	1330.0	1299.4	1251.8	1175.5	1105.1	1059.3
60°	1042.3	1087.9	1169.9	1234.7	1261.3	1303.2	1257.5	1229.0	1141.3	1063.2	1013.7
62.5°	990.8	1042.3	1103.2	1185.1	1208.0	1225.2	1213.7	1173.7	1103.2	1015.5	954.5
65°	929.8	967.9	1044.1	1086.1	1101.3	1141.3	1101.3	1086.1	1023.2	939.3	887.8
67.5°	838.3	870.8	937.5	977.4	988.8	1006.0	1004.1	987.0	916.4	859.3	813.6
70°	733.5	762.1	804.1	851.7	857.4	878.3	859.3	855.5	809.8	731.7	706.9
72.5°	588.8	615.4	670.7	691.6	693.6	701.1	691.6	678.3	666.8	584.9	560.2
75°	451.5	466.8	493.5	512.5	512.5	522.1	516.4	503.0	472.6	421.1	396.3
77.5°	314.4	329.6	363.9	375.3	373.4	377.3	360.1	346.7	301.1	274.3	253.4
80°	228.7	238.2	255.3	262.9	264.8	270.5	249.6	238.2	211.5	181.0	171.5
82.5°	165.8	171.5	173.4	182.9	182.9	173.4	167.7	156.3	137.2	118.2	110.5
85°	68.6	70.5	72.4	83.8	85.8	102.9	95.3	89.6	78.1	66.7	61.0
87.5°	17.2	19.1	24.8	20.9	24.8	24.8	26.7	30.4	30.4	24.8	24.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1
2.5°	5195.9	5211.1	5405.4	5430.2	5525.5	5622.7	5818.9	5959.9	6074.2	6148.6	6169.5
5°	4397.5	4494.6	4584.2	4729.0	4860.5	5047.3	5262.6	5529.2	5864.6	6036.1	6104.7
7.5°	3443.0	3557.3	3686.9	3827.8	4020.2	4355.6	4643.3	4952.0	5380.6	5557.8	5826.5
10°	2810.4	2938.0	3109.5	3218.1	3450.5	3770.6	4106.0	4462.3	4871.9	5127.2	5437.8
12.5°	2484.6	2589.4	2747.5	2976.1	3149.5	3357.2	3606.8	4056.5	4643.3	4885.3	5098.6
15°	2124.5	2240.7	2423.6	2677.0	2884.7	3132.4	3412.4	3902.2	4527.1	4900.5	5081.5
17.5°	1827.2	1911.1	2103.5	2322.6	2560.8	2831.3	3233.3	3894.5	4649.0	5127.2	5422.6
20°	1621.4	1632.9	1737.7	1924.4	2248.3	2600.8	3122.8	3856.4	5039.6	5517.9	5891.3
22.5°	1491.8	1480.4	1482.3	1640.5	1867.2	2374.1	2949.5	3985.9	5483.6	6139.0	6390.5
25°	1427.1	1396.6	1377.6	1411.9	1617.7	2105.4	2818.0	4157.4	5961.8	6651.6	6960.2
27.5°	1392.8	1339.5	1301.4	1307.1	1457.6	1970.1	2736.0	4231.7	6436.2	7366.0	7474.6
30°	1379.5	1312.8	1257.5	1238.5	1337.5	1781.5	2560.8	4359.4	6861.1	7758.5	7851.9
32.5°	1331.8	1249.9	1196.6	1179.4	1219.4	1615.7	2435.0	4450.8	7236.5	8185.3	8152.9
35°	1276.6	1208.0	1141.3	1108.9	1137.5	1509.0	2334.0	4407.0	7678.5	8516.8	8499.7
37.5°	1270.8	1181.3	1126.0	1072.7	1070.8	1377.6	2196.9	4449.0	7960.5	9111.3	8876.9
40°	1221.3	1164.2	1091.8	1048.0	1023.2	1310.9	2063.5	4349.9	8373.9	9351.4	9120.8
42.5°	1223.2	1137.5	1074.6	1023.2	998.4	1213.7	1972.1	4323.2	8518.7	9742.0	9235.2
45°	1192.7	1108.9	1055.5	994.6	981.3	1139.4	1884.3	4199.4	8774.1	9761.0	9092.2
47.5°	1162.3	1087.9	1030.8	958.4	927.9	1112.7	1815.8	4096.4	8640.7	9581.9	8894.1
50°	1141.3	1055.5	1002.2	950.8	865.1	1067.0	1726.2	4071.7	8454.0	9340.0	8526.4
52.5°	1105.1	1028.9	973.6	933.6	796.4	1025.1	1691.9	4216.5	8682.6	9158.9	8419.7
55°	1070.8	992.7	922.2	844.0	739.2	914.6	1596.6	4351.8	9016.0	9576.2	8903.6
57.5°	1034.6	960.3	884.1	790.7	684.0	800.2	1497.6	4376.6	8391.1	8850.3	8452.0
60°	987.0	891.7	834.5	712.6	624.9	663.0	1187.0	3858.3	6508.6	7390.8	7404.2
62.5°	933.6	830.7	781.2	638.3	564.0	571.6	967.9	3242.9	5279.7	6118.0	6481.9
65°	863.1	764.0	705.0	590.6	520.2	495.3	708.8	2375.9	4010.7	4963.4	5376.8
67.5°	771.7	678.3	604.0	514.4	464.9	424.9	484.0	1337.5	2368.3	3332.5	3458.2
70°	674.5	594.5	516.4	442.0	386.8	358.2	354.4	592.6	1131.7	1792.9	2040.6
72.5°	531.6	474.4	411.6	356.3	320.1	278.2	253.4	245.8	383.0	729.7	1007.9
75°	381.1	333.5	297.2	261.0	234.4	211.5	192.4	175.3	160.0	182.9	251.5
77.5°	240.1	222.9	194.4	184.9	169.5	163.8	156.3	146.7	135.3	127.7	127.7
80°	162.0	150.5	141.0	139.1	133.4	131.4	133.4	123.9	112.4	102.9	106.7
82.5°	108.6	106.7	104.8	102.9	104.8	106.7	110.5	108.6	99.1	93.4	95.3
85°	64.8	68.6	72.4	76.2	83.8	74.3	61.0	51.5	45.8	41.9	40.0
87.5°	24.8	34.3	30.4	28.6	30.4	28.6	26.7	24.8	20.9	19.1	19.1
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: P650804

CATALOG NUMBER: GALN-SA3C-840-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1	5834.1
2.5°	6308.6	6346.7	6379.1	6371.4	6304.7	6215.2	6179.0	5994.1	5956.0	5931.3
5°	6394.3	6615.3	6663.0	6634.4	6461.0	6241.9	6028.5	5757.9	5599.8	5594.1
7.5°	6236.2	6508.6	6594.4	6659.1	6428.6	6047.5	5681.7	5275.8	5176.8	5184.4
10°	5834.1	6268.6	6480.1	6546.8	6281.8	5952.3	5445.5	5033.9	4822.4	4818.6
12.5°	5611.2	5952.3	6011.3	6104.7	6026.6	5693.1	5308.2	4847.2	4641.4	4637.6
15°	5413.0	5637.9	5655.1	5786.5	5828.4	5603.6	5344.5	4852.9	4687.1	4670.0
17.5°	5586.4	5430.2	5365.4	5382.6	5506.4	5588.4	5554.0	5176.8	5007.2	4911.9
20°	5702.7	5354.0	5157.8	5176.8	5323.5	5622.7	5866.5	5645.5	5376.8	5388.3
22.5°	6013.2	5365.4	5058.7	5037.7	5270.1	5801.7	6219.0	6238.0	5978.9	5916.1
25°	6478.1	5496.9	5028.2	5022.5	5245.4	5994.1	6630.5	6939.3	6674.3	6558.1
27.5°	6851.5	5702.7	5123.5	5142.5	5323.5	6150.4	6981.1	7390.8	7188.8	7045.9
30°	7179.3	5916.1	5256.8	5169.2	5533.1	6232.3	7131.7	7905.2	7743.3	7625.2
32.5°	7314.6	6219.0	5468.3	5323.5	5706.4	6331.4	7444.1	8404.4	8265.3	7973.9
35°	7543.2	6388.6	5582.6	5571.2	6009.4	6569.6	7590.9	8734.0	8676.8	8417.7
37.5°	7726.1	6560.1	5988.4	5862.7	6424.8	6969.7	7827.1	9189.4	9058.0	8936.0
40°	7867.1	6866.8	6367.6	6533.4	6935.4	7333.6	8044.3	9218.0	9597.2	9242.8
42.5°	7737.5	7141.2	6990.6	7387.0	7768.1	7749.0	8069.1	9439.0	9722.9	9538.1
45°	7705.2	7606.1	7975.7	8335.8	8423.5	8093.9	7891.9	9195.2	9684.8	9602.9
47.5°	7627.0	8063.3	8707.4	9294.2	9160.8	8324.4	7680.4	9151.3	9707.7	9561.0
50°	7600.4	8162.4	9248.5	9820.1	9740.0	8524.5	7581.3	8869.4	9545.7	9532.4
52.5°	7598.4	8366.4	9473.3	10105.9	10155.4	8840.8	7716.6	9012.2	9671.5	9783.9
55°	7684.2	8301.5	9444.8	9947.8	9928.7	8699.7	7731.8	9107.5	9825.8	9936.3
57.5°	7247.9	7436.5	7794.7	8192.9	8090.1	7205.9	6904.9	8419.7	9018.0	8937.9
60°	6259.1	5668.3	5264.4	5245.4	5045.3	4769.1	5651.2	7514.7	7514.7	7436.5
62.5°	5481.6	3721.1	3197.1	3048.5	3191.4	3509.7	5451.2	7308.9	7101.2	7011.6
65°	4793.8	2840.8	2311.2	2269.3	2516.9	2997.1	4929.1	6226.6	5860.8	5563.6
67.5°	3084.7	2080.6	1718.6	1644.3	1943.5	2200.6	3281.0	3829.7	3599.1	3482.9
70°	1989.1	1354.7	956.5	897.4	1013.7	1356.6	2095.9	2233.0	1897.7	1819.6
72.5°	941.2	584.9	335.3	276.3	310.6	518.2	828.8	891.7	741.2	678.3
75°	299.1	215.3	137.2	118.2	112.4	133.4	190.6	146.7	106.7	104.8
77.5°	133.4	127.7	108.6	91.4	80.1	66.7	55.3	45.8	47.6	49.5
80°	110.5	101.0	89.6	80.1	66.7	51.5	40.0	30.4	30.4	32.4
82.5°	97.1	87.6	78.1	66.7	57.2	41.9	30.4	20.9	19.1	19.1
85°	41.9	49.5	53.3	57.2	45.8	34.3	20.9	13.4	11.4	11.4
87.5°	17.2	15.2	13.4	11.4	9.5	9.5	7.7	5.7	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)