

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: P647339

Luminaire Tested: **GALN-SA3D-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647339
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-SA3D-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA 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: 13466.8 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

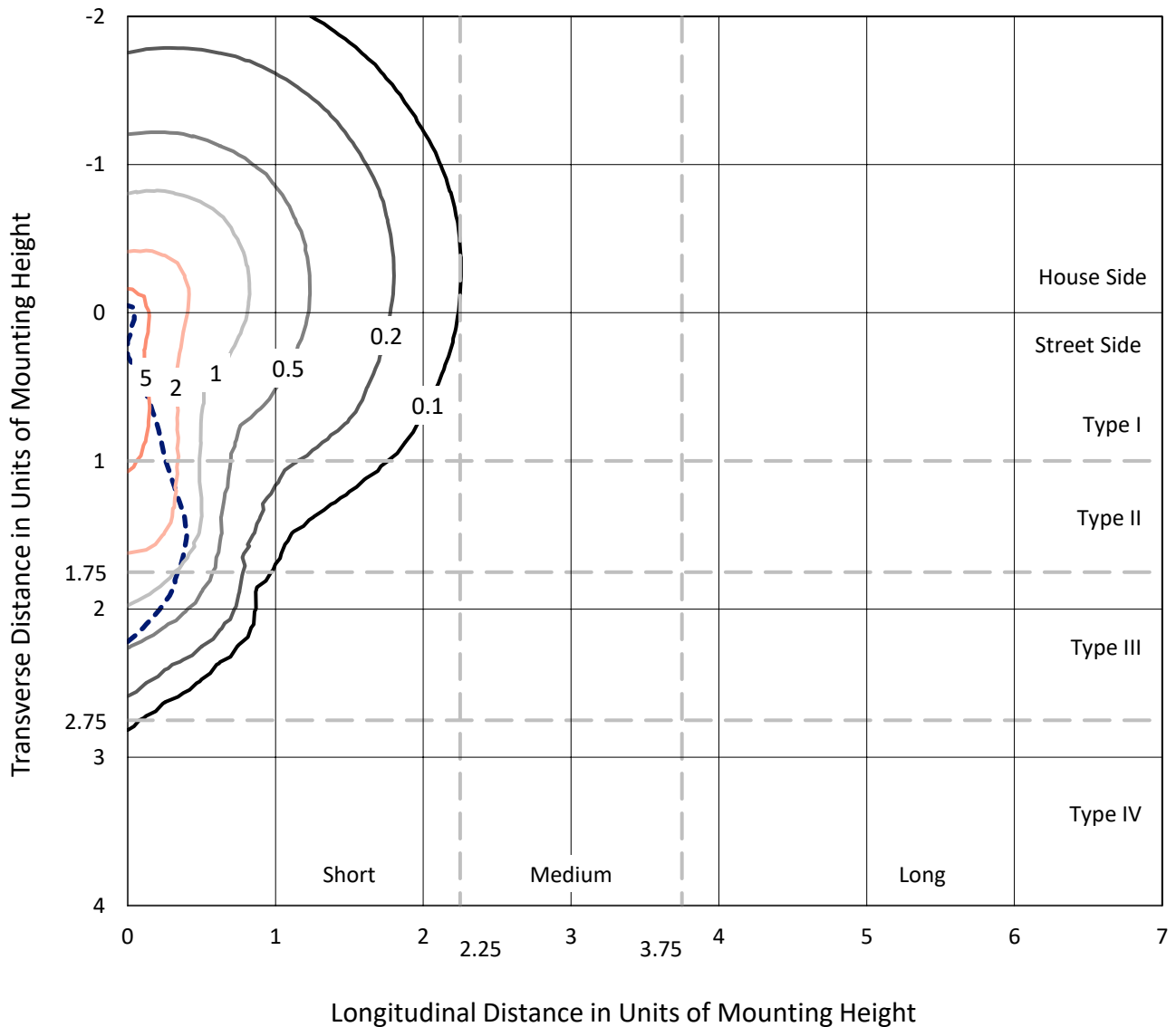
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

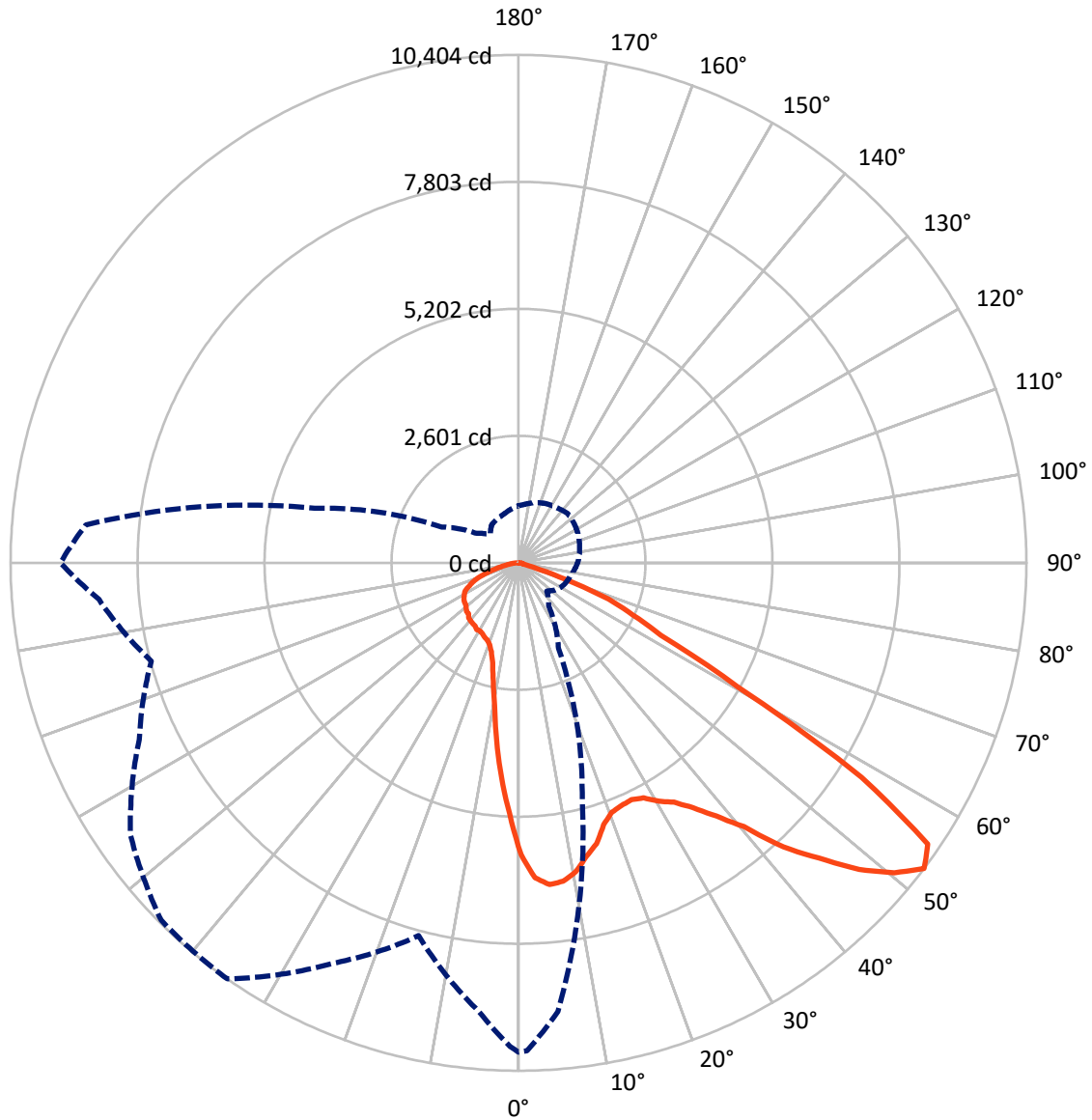
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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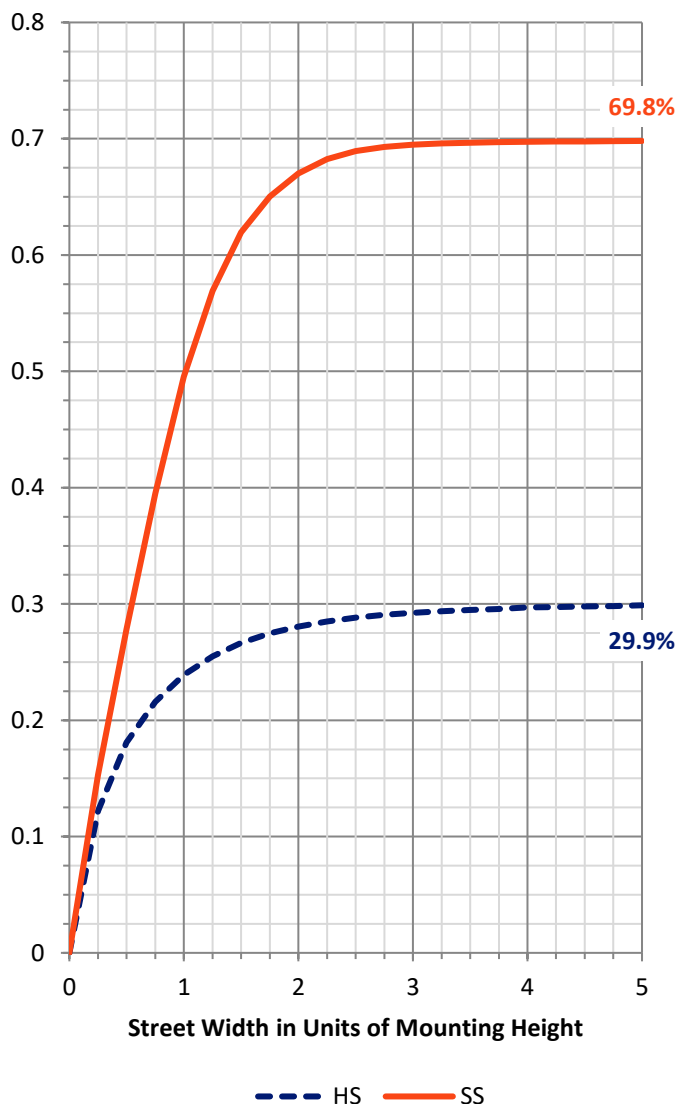
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4059.7	0.0	4059.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	9407.1	0.0	9407.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	13466.8	0.0	13466.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.0	3.4
10°-20°	988.5	7.3
20°-30°	1493.5	11.1
30°-40°	2158.2	16.0
40°-50°	2872.1	21.3
50°-60°	3212.6	23.9
60°-70°	1810.6	13.4
70°-80°	403.6	3.0
80°-90°	71.9	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°	13466.8	100.0
0°-180°	13466.8	100.0

Coefficient of Utilization



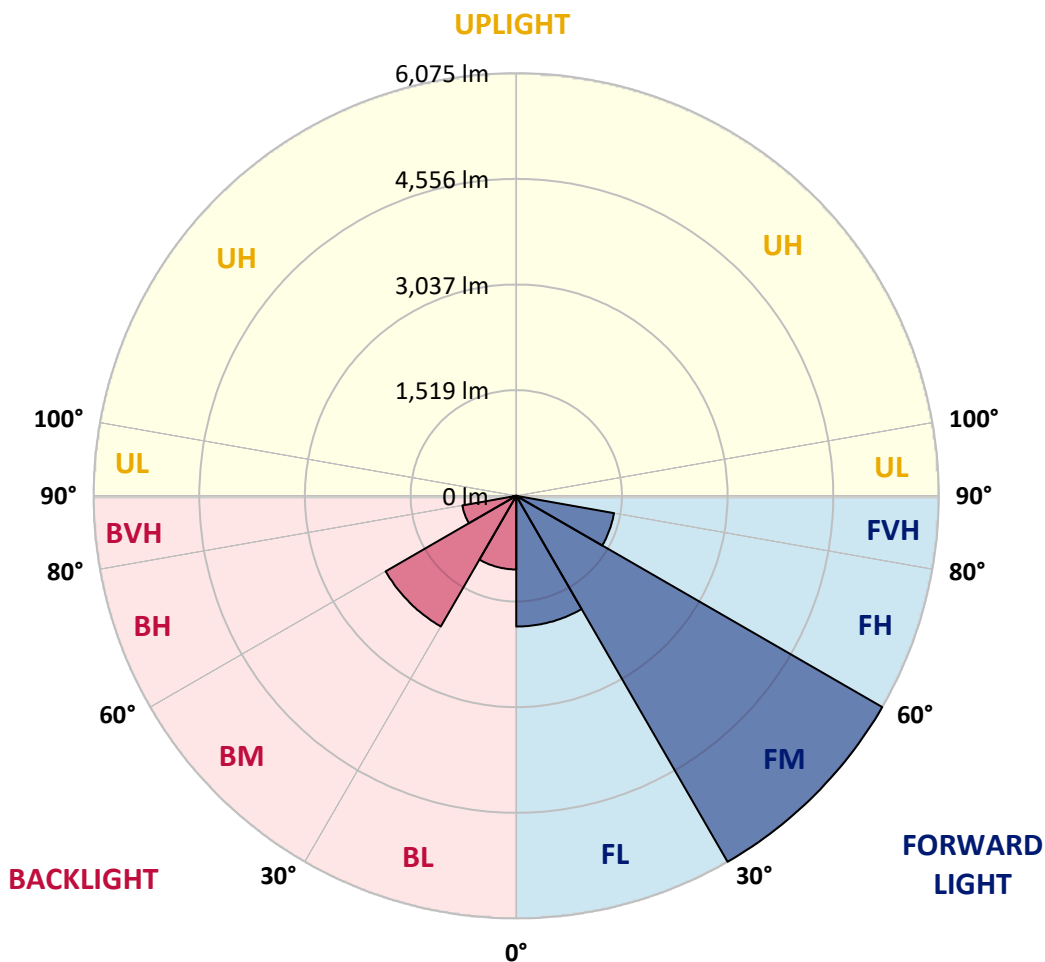
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1879.3	14.0			
FM (30°-60°)	6074.6	45.1			
FH (60°-80°)	1427.3	10.6			G1/1800
FVH (80°-90°)	26.0	0.2			G1/100
BL (0°-30°)	1058.7	7.9	B3/2500		
BM (30°-60°)	2168.3	16.1	B2/2500		
BH (60°-80°)	786.9	5.8	B2/1000		G2/1000
BVH (80°-90°)	45.8	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°	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6
2.5°	6076.2	6173.8	6068.4	5881.0	5748.3	5627.3	5500.4	5475.0	5309.1	5279.8	5158.8
5°	5730.7	5709.2	5580.4	5334.5	5063.2	4817.3	4635.8	4460.0	4341.0	4202.4	4192.7
7.5°	5311.1	5186.1	5112.0	4739.2	4403.4	4016.9	3851.0	3583.6	3499.7	3374.8	3310.4
10°	4936.3	4844.6	4670.8	4298.0	3829.6	3573.9	3396.3	3251.8	3154.2	3025.4	2863.4
12.5°	4750.9	4713.8	4518.6	3940.8	3593.4	3320.2	3195.3	3054.7	2888.8	2681.9	2601.8
15°	4784.1	4659.2	4510.8	3872.6	3392.3	3128.9	2929.8	2754.1	2541.4	2344.2	2229.0
17.5°	5031.9	4936.3	4639.6	3915.5	3316.2	2935.6	2574.5	2314.9	2123.7	1946.0	1866.0
20°	5519.9	5381.3	5047.5	3970.1	3152.3	2666.3	2252.5	1932.4	1727.4	1633.7	1606.4
22.5°	6060.6	5978.6	5445.8	4093.1	3021.5	2416.4	1910.9	1590.8	1514.6	1489.3	1540.0
25°	6718.4	6505.6	6064.5	4294.1	2920.0	2203.7	1622.0	1444.4	1405.3	1430.7	1489.3
27.5°	7218.1	7161.5	6497.8	4483.5	2781.5	1947.9	1460.0	1342.9	1354.6	1380.0	1434.6
30°	7811.4	7524.5	6917.5	4614.2	2656.5	1772.3	1346.8	1315.6	1327.3	1370.2	1397.6
32.5°	8168.6	8061.3	7181.0	4811.4	2512.1	1620.0	1259.0	1229.7	1247.2	1311.7	1376.0
35°	8623.4	8410.7	7506.9	4862.1	2410.5	1559.6	1196.5	1175.0	1216.0	1260.9	1333.1
37.5°	9154.3	9007.9	7957.8	4827.0	2355.9	1497.1	1143.8	1134.0	1163.3	1225.8	1309.7
40°	9468.6	9423.6	8194.0	4848.5	2270.1	1442.4	1083.3	1095.0	1155.6	1204.3	1286.3
42.5°	9771.1	9478.3	8543.4	4840.7	2215.4	1368.3	1089.2	1075.5	1122.4	1179.0	1257.0
45°	9837.5	9546.6	8625.4	4786.0	2149.0	1296.0	1044.3	1050.1	1106.7	1177.0	1227.7
47.5°	9794.5	9579.8	8777.6	4770.4	2086.5	1245.3	977.9	1048.1	1081.3	1137.9	1210.1
50°	9765.3	9753.5	8906.4	4844.6	2002.6	1165.3	897.9	1022.8	1056.0	1112.6	1190.6
52.5°	10022.9	9997.5	9228.5	5039.8	1936.3	1079.4	815.9	958.4	1038.4	1093.1	1169.2
55°	10179.1	10067.8	9780.8	5279.8	1825.0	966.1	759.3	878.4	995.4	1044.3	1122.4
57.5°	9156.2	9080.1	8847.9	4928.5	1637.6	817.8	689.0	796.4	936.9	1013.0	1093.1
60°	7618.2	7499.1	6903.8	4188.7	1208.2	636.3	646.1	731.9	921.3	950.6	1044.3
62.5°	7182.9	6888.2	6078.1	3370.9	927.2	546.5	579.7	673.4	839.3	888.1	981.8
65°	5699.5	5480.8	4348.8	2434.0	620.7	474.3	529.0	607.1	724.1	819.8	905.7
67.5°	3568.1	3359.1	2320.8	1151.6	433.3	406.0	472.4	554.4	650.0	735.9	831.5
70°	1864.0	1635.7	1071.6	415.8	298.6	331.8	394.3	472.4	566.0	636.3	710.5
72.5°	694.8	564.1	349.4	179.5	206.9	253.8	320.1	376.7	443.1	529.0	569.9
75°	107.3	91.8	89.8	109.3	140.5	183.5	228.4	285.0	343.5	398.2	425.5
77.5°	50.7	48.8	54.7	72.2	93.7	130.8	165.9	220.6	267.4	302.6	318.1
80°	33.2	31.2	35.2	48.8	70.2	97.6	132.7	169.8	212.7	242.0	238.1
82.5°	19.5	21.5	21.5	33.2	48.8	70.2	95.6	128.8	158.1	183.5	167.9
85°	11.7	9.8	9.8	19.5	33.2	56.6	80.0	54.7	56.6	56.6	64.4
87.5°	3.9	3.9	3.9	2.0	3.9	3.9	5.9	9.8	11.7	13.6	17.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6
2.5°	5154.9	5215.4	5194.0	5117.8	5176.4	5186.1	5147.1	5281.8	5307.2	5266.1	5277.9
5°	4178.9	4194.6	4229.7	4303.9	4356.6	4419.0	4419.0	4422.9	4370.2	4503.0	4464.0
7.5°	3255.7	3265.5	3306.5	3464.6	3509.5	3628.6	3679.3	3644.2	3538.8	3493.9	3530.9
10°	2810.7	2754.1	2740.4	2760.0	2861.5	2912.2	2955.1	2943.5	2925.8	2890.8	2851.7
12.5°	2514.1	2473.0	2439.8	2393.0	2398.9	2447.7	2480.9	2453.5	2461.3	2469.1	2480.9
15°	2191.9	2162.6	2145.1	2074.9	2067.0	2100.2	2111.9	2127.6	2156.9	2158.8	2145.1
17.5°	1850.4	1825.0	1864.0	1903.1	1875.8	1877.7	1899.2	1912.9	1905.0	1869.9	1852.3
20°	1616.2	1643.5	1682.5	1719.6	1748.9	1766.4	1774.3	1752.8	1727.4	1655.2	1653.2
22.5°	1547.8	1583.0	1616.2	1672.7	1700.0	1745.0	1704.0	1655.2	1620.0	1584.9	1543.9
25°	1497.1	1526.4	1592.7	1614.2	1666.9	1704.0	1674.7	1625.9	1565.4	1514.6	1483.4
27.5°	1460.0	1493.2	1536.2	1594.7	1635.7	1657.1	1627.9	1608.4	1545.9	1485.4	1440.5
30°	1436.6	1471.7	1549.8	1598.6	1633.7	1651.3	1600.5	1577.1	1532.3	1481.5	1442.4
32.5°	1421.0	1452.2	1518.6	1581.0	1604.4	1604.4	1612.3	1584.9	1522.5	1436.6	1403.4
35°	1370.2	1413.2	1467.8	1540.0	1583.0	1608.4	1569.3	1538.0	1497.1	1409.2	1348.7
37.5°	1341.0	1370.2	1440.5	1508.8	1545.9	1573.2	1557.6	1503.0	1448.3	1376.0	1327.3
40°	1309.7	1356.5	1419.0	1483.4	1524.4	1551.7	1540.0	1475.6	1409.2	1341.0	1307.8
42.5°	1288.3	1319.4	1383.9	1456.1	1504.9	1557.6	1522.5	1442.4	1395.6	1301.9	1264.8
45°	1270.7	1321.4	1389.7	1419.0	1469.8	1524.4	1461.9	1413.2	1358.5	1290.2	1259.0
47.5°	1249.2	1296.0	1341.0	1419.0	1442.4	1467.8	1456.1	1378.0	1331.2	1257.0	1235.6
50°	1241.4	1259.0	1341.0	1383.9	1417.1	1442.4	1411.2	1352.6	1307.8	1231.7	1184.8
52.5°	1210.1	1243.3	1296.0	1352.6	1393.7	1424.9	1374.1	1337.1	1276.5	1196.5	1167.2
55°	1171.1	1190.6	1284.4	1342.9	1364.4	1385.8	1366.3	1305.8	1243.3	1161.3	1132.1
57.5°	1120.4	1165.3	1241.4	1323.3	1350.7	1362.4	1331.2	1282.4	1204.3	1132.1	1085.2
60°	1067.7	1114.5	1198.5	1264.8	1292.1	1335.1	1288.3	1259.0	1169.2	1089.2	1038.4
62.5°	1015.0	1067.7	1130.1	1214.0	1237.5	1255.1	1243.3	1202.4	1130.1	1040.4	977.9
65°	952.5	991.6	1069.7	1112.6	1128.2	1169.2	1128.2	1112.6	1048.1	962.3	909.6
67.5°	858.8	892.0	960.3	1001.3	1013.0	1030.6	1028.6	1011.1	938.8	880.3	833.4
70°	751.4	780.7	823.7	872.5	878.4	899.8	880.3	876.4	829.5	749.5	724.1
72.5°	603.1	630.5	687.1	708.5	710.5	718.3	708.5	694.8	683.2	599.2	573.9
75°	462.6	478.2	505.5	525.1	525.1	534.8	529.0	515.3	484.1	431.4	406.0
77.5°	322.0	337.7	372.8	384.5	382.6	386.5	368.9	355.2	308.4	281.1	259.6
80°	234.2	244.0	261.5	269.4	271.3	277.2	255.7	244.0	216.7	185.4	175.7
82.5°	169.8	175.7	177.6	187.4	187.4	177.6	171.8	160.0	140.5	121.1	113.2
85°	70.2	72.2	74.2	85.9	87.9	105.4	97.6	91.8	80.0	68.3	62.5
87.5°	17.5	19.5	25.4	21.5	25.4	25.4	27.3	31.2	31.2	25.4	25.4
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°	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6
2.5°	5322.8	5338.4	5537.5	5562.8	5660.5	5760.0	5961.1	6105.4	6222.6	6298.7	6320.2
5°	4504.9	4604.5	4696.2	4844.6	4979.3	5170.5	5391.1	5664.4	6007.9	6183.6	6253.8
7.5°	3527.0	3644.2	3776.9	3921.3	4118.5	4462.0	4756.7	5072.9	5512.1	5693.7	5968.9
10°	2879.0	3009.8	3185.5	3296.7	3534.9	3862.8	4206.3	4571.3	4990.9	5252.5	5570.7
12.5°	2545.2	2652.6	2814.6	3048.8	3226.4	3439.2	3694.9	4155.5	4756.7	5004.6	5223.2
15°	2176.3	2295.4	2482.8	2742.4	2955.1	3208.9	3495.8	3997.4	4637.6	5020.2	5205.7
17.5°	1871.8	1957.7	2154.9	2379.4	2623.4	2900.5	3312.3	3989.6	4762.6	5252.5	5555.1
20°	1661.1	1672.7	1780.2	1971.4	2303.2	2664.3	3199.1	3950.6	5162.7	5652.6	6035.2
22.5°	1528.3	1516.6	1518.6	1680.6	1912.9	2432.1	3021.5	4083.3	5617.5	6289.0	6546.6
25°	1461.9	1430.7	1411.2	1446.4	1657.1	2156.9	2886.8	4259.0	6107.4	6814.0	7130.2
27.5°	1426.9	1372.2	1333.1	1339.0	1493.2	2018.3	2802.9	4335.2	6593.5	7546.0	7657.2
30°	1413.2	1344.9	1288.3	1268.7	1370.2	1825.0	2623.4	4465.9	7028.8	7948.1	8043.7
32.5°	1364.4	1280.4	1225.8	1208.2	1249.2	1655.2	2494.5	4559.6	7413.2	8385.3	8352.1
35°	1307.8	1237.5	1169.2	1136.0	1165.3	1545.9	2391.0	4514.7	7866.1	8724.9	8707.4
37.5°	1301.9	1210.1	1153.6	1098.9	1097.0	1411.2	2250.5	4557.6	8154.9	9333.9	9093.8
40°	1251.2	1192.6	1118.4	1073.6	1048.1	1342.9	2113.9	4456.1	8578.5	9579.8	9343.6
42.5°	1253.1	1165.3	1100.9	1048.1	1022.8	1243.3	2020.2	4428.8	8726.8	9980.0	9460.8
45°	1221.9	1136.0	1081.3	1018.9	1005.2	1167.2	1930.4	4302.0	8988.4	9999.5	9314.3
47.5°	1190.6	1114.5	1056.0	981.8	950.6	1139.9	1860.2	4196.6	8851.7	9816.0	9111.4
50°	1169.2	1081.3	1026.7	974.0	886.1	1093.1	1768.4	4171.2	8660.5	9568.1	8734.7
52.5°	1132.1	1054.0	997.4	956.4	815.9	1050.1	1733.2	4319.5	8894.7	9382.7	8625.4
55°	1097.0	1017.0	944.7	864.7	757.3	936.9	1635.7	4458.1	9236.3	9810.1	9121.2
57.5°	1059.9	983.8	905.7	810.0	700.7	819.8	1534.2	4483.5	8596.1	9066.5	8658.6
60°	1011.1	913.4	855.0	730.0	640.2	679.3	1216.0	3952.6	6667.6	7571.4	7585.0
62.5°	956.4	851.0	800.3	653.9	577.8	585.5	991.6	3322.1	5408.7	6267.5	6640.3
65°	884.2	782.7	722.2	605.1	532.8	507.5	726.1	2434.0	4108.7	5084.6	5508.2
67.5°	790.5	694.8	618.7	527.0	476.2	435.3	495.8	1370.2	2426.2	3413.8	3542.7
70°	691.0	609.0	529.0	452.8	396.2	367.0	363.1	607.1	1159.4	1836.7	2090.5
72.5°	544.6	486.0	421.6	365.0	327.9	285.0	259.6	251.8	392.4	747.6	1032.5
75°	390.4	341.5	304.5	267.4	240.1	216.7	197.2	179.5	164.0	187.4	257.7
77.5°	245.9	228.4	199.1	189.3	173.7	167.9	160.0	150.3	138.6	130.8	130.8
80°	165.9	154.2	144.5	142.5	136.6	134.7	136.6	126.8	115.2	105.4	109.3
82.5°	111.3	109.3	107.3	105.4	107.3	109.3	113.2	111.3	101.5	95.6	97.6
85°	66.4	70.2	74.2	78.1	85.9	76.1	62.5	52.7	46.8	42.9	41.0
87.5°	25.4	35.2	31.2	29.3	31.2	29.3	27.3	25.4	21.5	19.5	19.5
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: P647339

CATALOG NUMBER: GALN-SA3D-835-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6	5976.6
2.5°	6462.6	6501.7	6534.9	6527.1	6458.7	6367.0	6329.9	6140.6	6101.6	6076.2
5°	6550.5	6776.9	6825.7	6796.4	6618.9	6394.4	6175.8	5898.6	5736.6	5730.7
7.5°	6388.5	6667.6	6755.5	6821.8	6585.7	6195.3	5820.5	5404.7	5303.3	5311.1
10°	5976.6	6421.7	6638.4	6706.6	6435.3	6097.7	5578.5	5156.8	4940.2	4936.3
12.5°	5748.3	6097.7	6158.2	6253.8	6173.8	5832.3	5437.9	4965.6	4754.8	4750.9
15°	5545.3	5775.6	5793.2	5927.9	5970.8	5740.5	5475.0	4971.4	4801.6	4784.1
17.5°	5722.9	5562.8	5496.5	5514.0	5641.0	5724.8	5689.7	5303.3	5129.5	5031.9
20°	5842.0	5484.8	5283.8	5303.3	5453.5	5760.0	6009.8	5783.4	5508.2	5519.9
22.5°	6160.1	5496.5	5182.2	5160.8	5398.9	5943.4	6371.0	6390.5	6125.0	6060.6
25°	6636.4	5631.2	5151.0	5145.2	5373.5	6140.6	6792.5	7108.8	6837.5	6718.4
27.5°	7019.0	5842.0	5248.6	5268.1	5453.5	6300.6	7151.7	7571.4	7364.4	7218.1
30°	7354.7	6060.6	5385.2	5295.4	5668.3	6384.6	7305.9	8098.3	7932.4	7811.4
32.5°	7493.2	6371.0	5601.9	5453.5	5845.9	6486.1	7626.0	8609.7	8467.3	8168.6
35°	7727.5	6544.6	5719.0	5707.3	6156.3	6730.1	7776.3	8947.4	8888.9	8623.4
37.5°	7914.9	6720.3	6134.7	6005.9	6581.7	7139.9	8018.3	9413.9	9279.3	9154.3
40°	8059.3	7034.6	6523.2	6693.0	7104.9	7512.8	8240.8	9443.2	9831.6	9468.6
42.5°	7926.6	7315.6	7161.5	7567.5	7957.8	7938.3	8266.2	9669.6	9960.5	9771.1
45°	7893.4	7791.9	8170.6	8539.5	8629.3	8291.6	8084.7	9419.8	9921.4	9837.5
47.5°	7813.4	8260.3	8920.1	9521.3	9384.6	8527.7	7868.1	9374.9	9944.8	9794.5
50°	7786.1	8361.9	9474.5	10060.0	9978.0	8732.7	7766.5	9086.0	9778.9	9765.3
52.5°	7784.1	8570.7	9704.7	10352.7	10403.5	9056.7	7905.1	9232.4	9907.8	10022.9
55°	7872.0	8504.3	9675.5	10190.7	10171.2	8912.3	7920.7	9330.0	10065.9	10179.1
57.5°	7425.0	7618.2	7985.1	8393.1	8287.7	7382.0	7073.6	8625.4	9238.2	9156.2
60°	6411.9	5806.8	5393.1	5373.5	5168.6	4885.5	5789.3	7698.2	7698.2	7618.2
62.5°	5615.5	3812.0	3275.3	3123.0	3269.4	3595.4	5584.4	7487.4	7274.6	7182.9
65°	4910.9	2910.3	2367.6	2324.7	2578.4	3070.3	5049.5	6378.7	6004.0	5699.5
67.5°	3160.1	2131.5	1760.6	1684.5	1990.9	2254.4	3361.1	3923.3	3687.1	3568.1
70°	2037.8	1387.8	979.8	919.3	1038.4	1389.7	2147.1	2287.6	1944.1	1864.0
72.5°	964.3	599.2	343.5	283.1	318.1	530.9	849.1	913.4	759.3	694.8
75°	306.5	220.6	140.5	121.1	115.2	136.6	195.2	150.3	109.3	107.3
77.5°	136.6	130.8	111.3	93.7	82.0	68.3	56.6	46.8	48.8	50.7
80°	113.2	103.4	91.8	82.0	68.3	52.7	41.0	31.2	31.2	33.2
82.5°	99.5	89.8	80.0	68.3	58.6	42.9	31.2	21.5	19.5	19.5
85°	42.9	50.7	54.7	58.6	46.8	35.2	21.5	13.6	11.7	11.7
87.5°	17.5	15.6	13.6	11.7	9.8	9.8	7.8	5.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)