

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: P651299

Luminaire Tested: **GALN-SA3D-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651299  
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-840-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 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: 14464.4 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

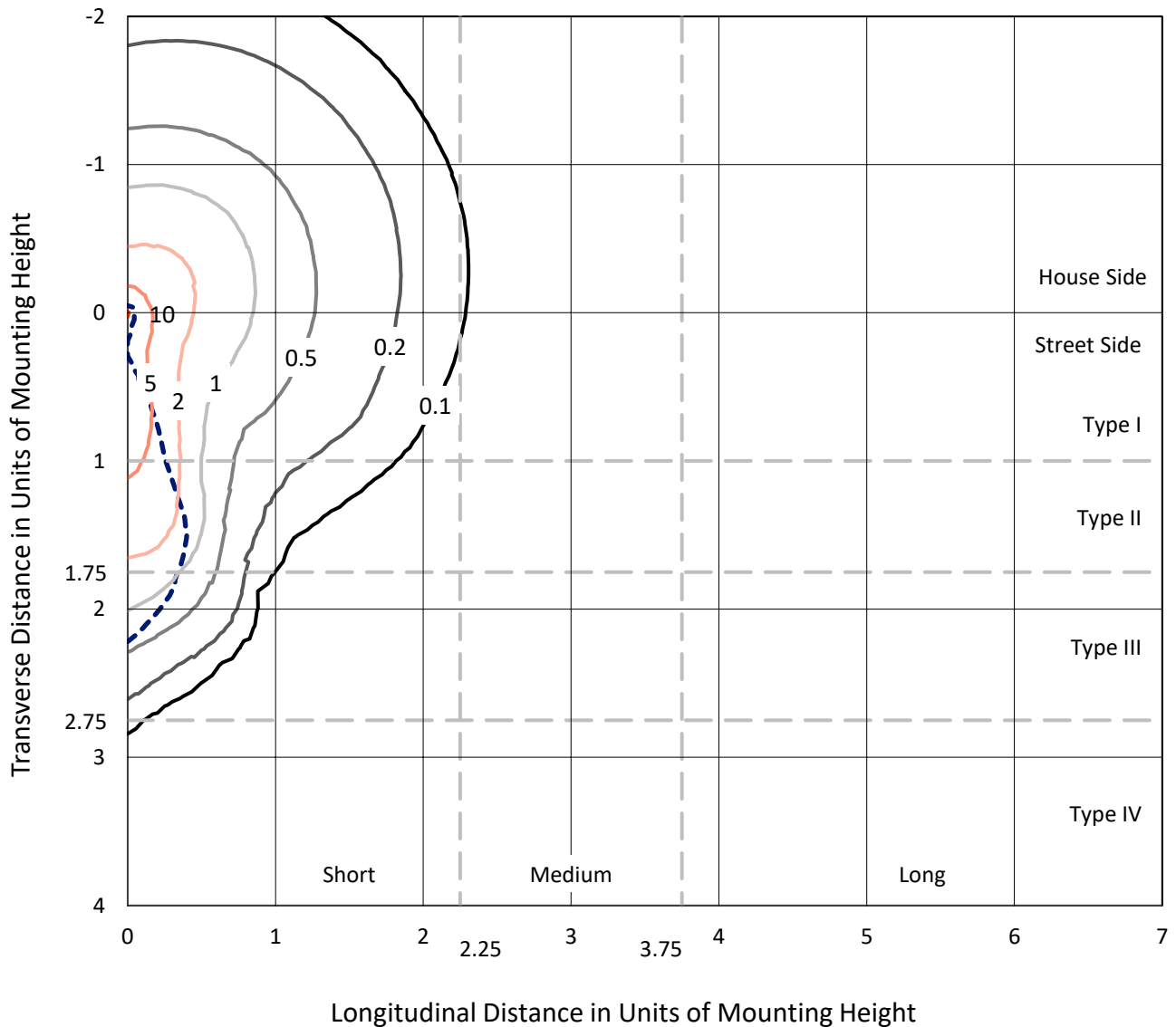
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

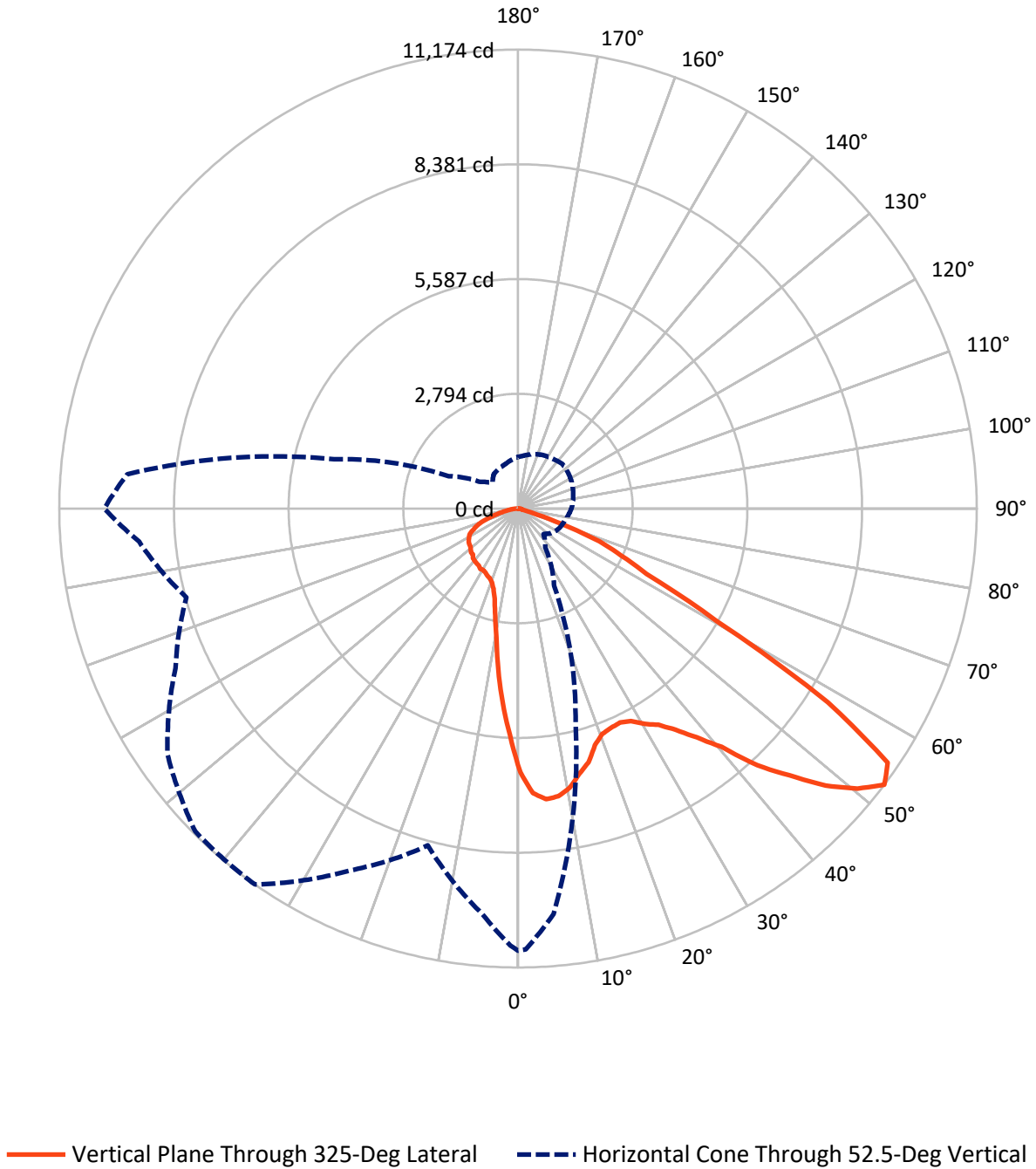
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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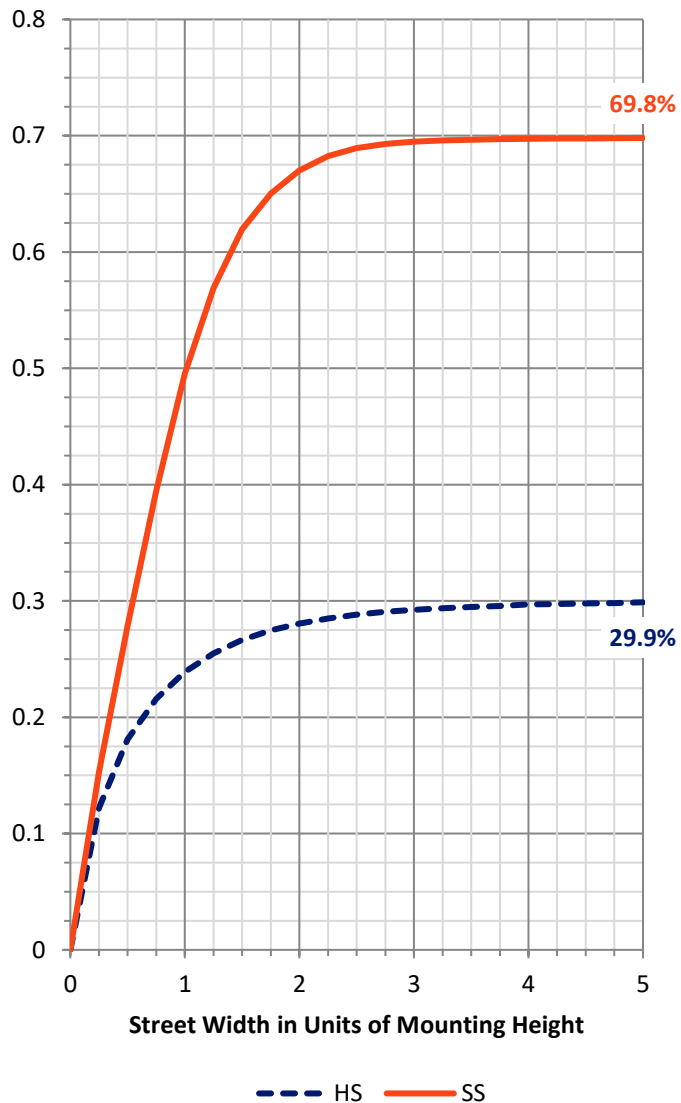
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4360.4	0.0	4360.4
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	10104.0	0.0	10104.0
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	14464.4	0.0	14464.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.7	3.4
10°-20°	1061.7	7.3
20°-30°	1604.1	11.1
30°-40°	2318.0	16.0
40°-50°	3084.9	21.3
50°-60°	3450.5	23.9
60°-70°	1944.7	13.4
70°-80°	433.5	3.0
80°-90°	77.2	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°	14464.4	100.0
0°-180°	14464.4	100.0

**Coefficient of Utilization**



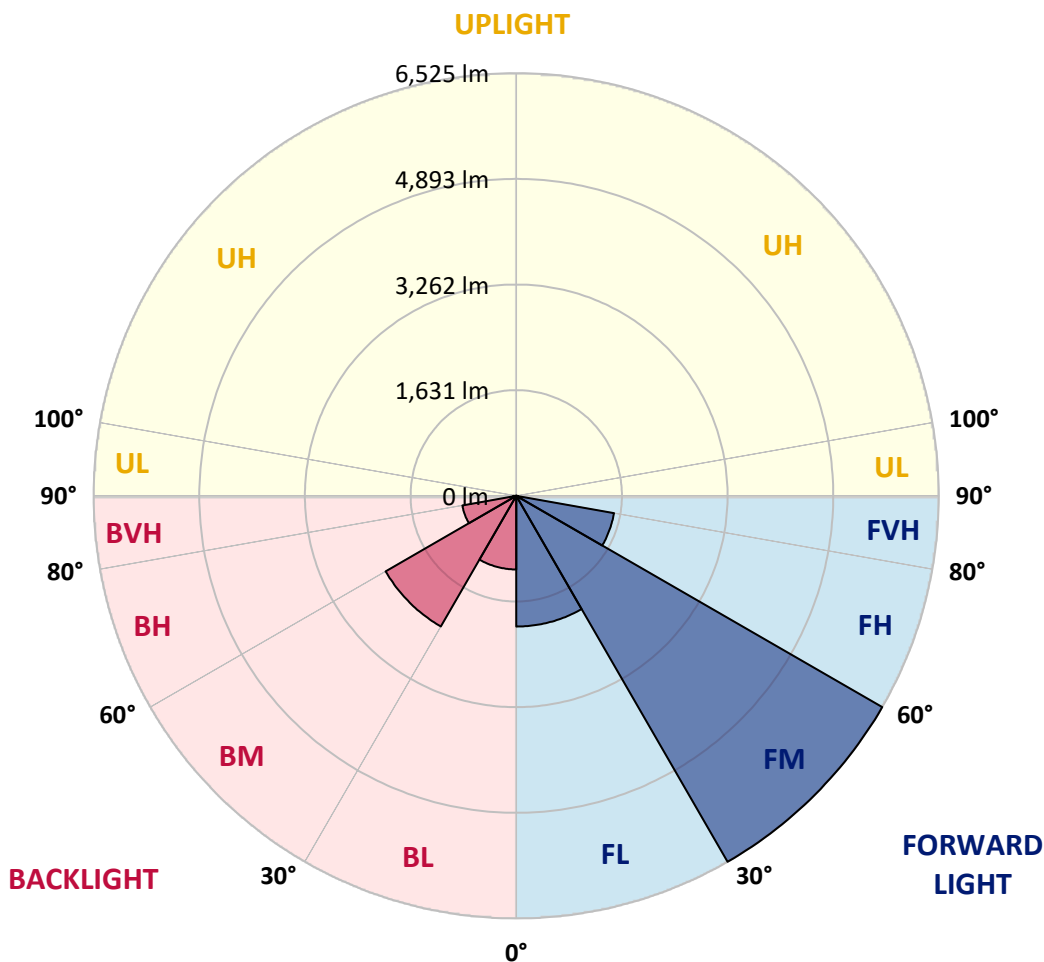
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2018.5	14.0			
FM (30°-60°)	6524.5	45.1			
FH (60°-80°)	1533.0	10.6			G1/1800
FVH (80°-90°)	27.9	0.2			G1/100
BL (0°-30°)	1137.1	7.9	B3/2500		
BM (30°-60°)	2328.9	16.1	B2/2500		
BH (60°-80°)	845.2	5.8	B2/1000		G2/1000
BVH (80°-90°)	49.2	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°	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4
2.5°	6526.3	6631.1	6517.9	6316.7	6174.1	6044.1	5907.9	5880.6	5702.4	5670.9	5540.9
5°	6155.2	6132.2	5993.8	5729.6	5438.2	5174.1	4979.1	4790.4	4662.5	4513.6	4503.2
7.5°	5704.5	5570.3	5490.6	5090.2	4729.6	4314.5	4136.3	3849.1	3758.9	3624.8	3555.6
10°	5301.9	5203.4	5016.8	4616.4	4113.2	3838.7	3647.8	3492.7	3387.9	3249.5	3075.5
12.5°	5102.8	5063.0	4853.3	4232.8	3859.6	3566.1	3432.0	3281.0	3102.8	2880.5	2794.6
15°	5138.4	5004.3	4844.9	4159.4	3643.6	3360.6	3146.8	2958.1	2729.6	2517.9	2394.2
17.5°	5404.7	5301.9	4983.3	4205.5	3561.9	3153.1	2765.2	2486.4	2281.0	2090.1	2004.2
20°	5928.8	5779.9	5421.4	4264.2	3385.8	2863.8	2419.3	2075.5	1855.3	1754.7	1725.4
22.5°	6509.5	6421.5	5849.2	4396.2	3245.3	2595.4	2052.5	1708.7	1626.8	1599.6	1654.1
25°	7216.0	6987.5	6513.7	4612.2	3136.3	2366.9	1742.1	1551.4	1509.4	1536.7	1599.6
27.5°	7752.8	7692.0	6979.1	4815.6	2987.5	2092.2	1568.1	1442.4	1454.9	1482.2	1540.9
30°	8390.1	8081.8	7429.9	4956.0	2853.3	1903.6	1446.5	1413.0	1425.6	1471.8	1501.1
32.5°	8773.7	8658.4	7712.9	5167.8	2698.2	1740.0	1352.2	1320.8	1339.6	1408.8	1478.0
35°	9262.2	9033.7	8063.0	5222.3	2589.1	1675.1	1285.1	1262.1	1306.1	1354.3	1431.9
37.5°	9832.4	9675.2	8547.3	5184.5	2530.4	1608.0	1228.5	1218.0	1249.5	1316.6	1406.7
40°	10170.0	10121.7	8801.0	5207.6	2438.2	1549.3	1163.5	1176.1	1241.1	1293.5	1381.6
42.5°	10494.9	10180.4	9176.2	5199.2	2379.5	1469.6	1169.8	1155.1	1205.5	1266.3	1350.1
45°	10566.2	10253.8	9264.3	5140.5	2308.2	1392.0	1121.6	1127.9	1188.7	1264.2	1318.7
47.5°	10520.1	10289.5	9427.8	5123.8	2241.1	1337.5	1050.3	1125.8	1161.4	1222.2	1299.8
50°	10488.6	10476.0	9566.1	5203.4	2150.9	1251.6	964.4	1098.5	1134.2	1195.0	1278.8
52.5°	10765.3	10738.1	9912.1	5413.1	2079.7	1159.3	876.3	1029.4	1115.3	1174.0	1255.8
55°	10933.1	10813.6	10505.4	5670.9	1960.2	1037.7	815.5	943.4	1069.2	1121.6	1205.5
57.5°	9834.5	9752.7	9503.3	5293.6	1759.0	878.4	740.1	855.4	1006.3	1088.1	1174.0
60°	8182.5	8054.6	7415.2	4499.0	1297.7	683.5	693.9	786.2	989.5	1021.0	1121.6
62.5°	7715.0	7398.4	6528.3	3620.6	995.8	587.0	622.7	723.3	901.5	953.9	1054.5
65°	6121.6	5886.8	4670.9	2614.2	666.7	509.5	568.2	652.0	777.8	880.5	972.8
67.5°	3832.4	3608.0	2492.7	1236.9	465.4	436.1	507.4	595.4	698.1	790.4	893.1
70°	2002.1	1756.8	1151.0	446.6	320.8	356.4	423.5	507.4	608.0	683.5	763.1
72.5°	746.3	605.9	375.3	192.8	222.2	272.6	343.8	404.6	475.9	568.2	612.2
75°	115.3	98.6	96.5	117.4	151.0	197.0	245.3	306.1	368.9	427.6	457.0
77.5°	54.5	52.4	58.7	77.5	100.7	140.4	178.2	236.9	287.2	325.0	341.7
80°	35.7	33.6	37.8	52.4	75.4	104.8	142.5	182.4	228.5	260.0	255.7
82.5°	20.9	23.0	23.0	35.7	52.4	75.4	102.7	138.3	169.8	197.0	180.3
85°	12.6	10.5	10.5	20.9	35.7	60.8	86.0	58.7	60.8	60.8	69.2
87.5°	4.2	4.2	4.2	2.1	4.2	4.2	6.3	10.5	12.6	14.6	18.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4
2.5°	5536.7	5601.7	5578.7	5496.9	5559.9	5570.3	5528.4	5673.0	5700.3	5656.2	5668.8
5°	4488.5	4505.3	4543.0	4622.7	4679.3	4746.4	4746.4	4750.6	4694.0	4836.5	4794.6
7.5°	3496.9	3507.4	3551.4	3721.3	3769.4	3897.4	3951.9	3914.1	3800.9	3752.7	3792.5
10°	3018.9	2958.1	2943.4	2964.4	3073.4	3127.9	3174.0	3161.5	3142.6	3104.9	3062.9
12.5°	2700.3	2656.2	2620.6	2570.3	2576.6	2629.0	2664.6	2635.3	2643.6	2652.0	2664.6
15°	2354.3	2322.8	2304.0	2228.6	2220.2	2255.8	2268.3	2285.2	2316.6	2318.7	2304.0
17.5°	1987.5	1960.2	2002.1	2044.1	2014.7	2016.8	2039.8	2054.6	2046.2	2008.4	1989.6
20°	1735.9	1765.3	1807.1	1847.0	1878.5	1897.3	1905.7	1882.7	1855.3	1777.8	1775.7
22.5°	1662.5	1700.2	1735.9	1796.6	1826.0	1874.3	1830.2	1777.8	1740.0	1702.4	1658.3
25°	1608.0	1639.4	1710.7	1733.8	1790.4	1830.2	1798.7	1746.3	1681.3	1626.8	1593.3
27.5°	1568.1	1603.8	1650.0	1712.8	1756.8	1779.9	1748.4	1727.5	1660.4	1595.4	1547.2
30°	1543.0	1580.7	1664.6	1717.0	1754.7	1773.6	1719.1	1693.9	1645.8	1591.3	1549.3
32.5°	1526.2	1559.8	1631.0	1698.1	1723.3	1723.3	1731.7	1702.4	1635.2	1543.0	1507.3
35°	1471.8	1517.8	1576.5	1654.1	1700.2	1727.5	1685.5	1652.0	1608.0	1513.6	1448.6
37.5°	1440.3	1471.8	1547.2	1620.6	1660.4	1689.7	1673.0	1614.3	1555.6	1478.0	1425.6
40°	1406.7	1457.0	1524.1	1593.3	1637.3	1666.7	1654.1	1584.9	1513.6	1440.3	1404.6
42.5°	1383.7	1417.2	1486.4	1563.9	1616.4	1673.0	1635.2	1549.3	1499.0	1398.3	1358.5
45°	1364.8	1419.3	1492.7	1524.1	1578.6	1637.3	1570.2	1517.8	1459.1	1385.8	1352.2
47.5°	1341.7	1392.0	1440.3	1524.1	1549.3	1576.5	1563.9	1480.1	1429.8	1350.1	1327.1
50°	1333.3	1352.2	1440.3	1486.4	1522.0	1549.3	1515.7	1452.8	1404.6	1322.9	1272.5
52.5°	1299.8	1335.4	1392.0	1452.8	1496.9	1530.5	1475.9	1436.1	1371.1	1285.1	1253.7
55°	1257.9	1278.8	1379.5	1442.4	1465.4	1488.5	1467.5	1402.5	1335.4	1247.4	1215.9
57.5°	1203.4	1251.6	1333.3	1421.4	1450.7	1463.3	1429.8	1377.4	1293.5	1215.9	1165.6
60°	1146.8	1197.1	1287.2	1358.5	1387.8	1434.0	1383.7	1352.2	1255.8	1169.8	1115.3
62.5°	1090.2	1146.8	1213.8	1304.0	1329.1	1348.0	1335.4	1291.4	1213.8	1117.4	1050.3
65°	1023.1	1065.0	1148.9	1195.0	1211.8	1255.8	1211.8	1195.0	1125.8	1033.6	977.0
67.5°	922.4	958.1	1031.5	1075.5	1088.1	1106.9	1104.8	1086.0	1008.4	945.5	895.2
70°	807.1	838.6	884.7	937.1	943.4	966.5	945.5	941.3	891.0	805.0	777.8
72.5°	647.8	677.2	738.0	761.0	763.1	771.5	761.0	746.3	733.8	643.6	616.4
75°	496.9	513.6	542.9	564.0	564.0	574.4	568.2	553.5	519.9	463.3	436.1
77.5°	345.9	362.7	400.4	413.0	410.9	415.1	396.2	381.6	331.3	301.9	278.8
80°	251.5	262.1	280.9	289.3	291.4	297.7	274.7	262.1	232.7	199.1	188.7
82.5°	182.4	188.7	190.7	201.3	201.3	190.7	184.5	171.9	151.0	130.0	121.6
85°	75.4	77.5	79.6	92.3	94.4	113.2	104.8	98.6	86.0	73.3	67.1
87.5°	18.8	20.9	27.2	23.0	27.2	27.2	29.4	33.6	33.6	27.2	27.2
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4
2.5°	5717.0	5733.9	5947.6	5974.9	6079.8	6186.6	6402.6	6557.7	6683.5	6765.3	6788.4
5°	4838.6	4945.6	5044.1	5203.4	5348.1	5553.5	5790.5	6084.0	6452.9	6641.6	6717.1
7.5°	3788.3	3914.1	4056.6	4211.8	4423.6	4792.5	5109.1	5448.7	5920.4	6115.4	6411.0
10°	3092.3	3232.7	3421.4	3540.9	3796.7	4148.9	4517.9	4909.9	5360.6	5641.6	5983.3
12.5°	2733.8	2849.1	3023.1	3274.7	3465.4	3694.0	3968.6	4463.4	5109.1	5375.3	5610.1
15°	2337.6	2465.5	2666.7	2945.5	3174.0	3446.6	3754.7	4293.6	4981.2	5392.1	5591.3
17.5°	2010.5	2102.8	2314.5	2555.6	2817.7	3115.3	3557.7	4285.1	5115.4	5641.6	5966.6
20°	1784.1	1796.6	1912.0	2117.5	2473.8	2861.7	3436.1	4243.3	5545.1	6071.3	6482.3
22.5°	1641.5	1628.9	1631.0	1805.0	2054.6	2612.2	3245.3	4385.8	6033.6	6754.8	7031.5
25°	1570.2	1536.7	1515.7	1553.5	1779.9	2316.6	3100.7	4574.5	6559.8	7318.7	7658.4
27.5°	1532.6	1473.9	1431.9	1438.2	1603.8	2167.8	3010.5	4656.3	7081.9	8105.0	8224.4
30°	1517.8	1444.5	1383.7	1362.7	1471.8	1960.2	2817.7	4796.7	7549.4	8536.8	8639.5
32.5°	1465.4	1375.3	1316.6	1297.7	1341.7	1777.8	2679.3	4897.3	7962.3	9006.4	8970.8
35°	1404.6	1329.1	1255.8	1220.1	1251.6	1660.4	2568.2	4849.1	8448.8	9371.2	9352.3
37.5°	1398.3	1299.8	1239.0	1180.3	1178.2	1515.7	2417.2	4895.2	8759.0	10025.3	9767.5
40°	1343.8	1280.9	1201.3	1153.1	1125.8	1442.4	2270.4	4786.2	9214.0	10289.5	10035.7
42.5°	1345.9	1251.6	1182.4	1125.8	1098.5	1335.4	2169.9	4756.9	9373.3	10719.2	10161.6
45°	1312.4	1220.1	1161.4	1094.4	1079.7	1253.7	2073.4	4620.6	9654.2	10740.2	10004.3
47.5°	1278.8	1197.1	1134.2	1054.5	1021.0	1224.3	1998.0	4507.4	9507.4	10543.1	9786.3
50°	1255.8	1161.4	1102.7	1046.1	951.8	1174.0	1899.4	4480.2	9302.0	10276.9	9381.7
52.5°	1215.9	1132.1	1071.3	1027.3	876.3	1127.9	1861.6	4639.5	9553.6	10077.7	9264.3
55°	1178.2	1092.3	1014.7	928.7	813.4	1006.3	1756.8	4788.3	9920.4	10536.8	9796.8
57.5°	1138.4	1056.6	972.8	870.0	752.6	880.5	1647.9	4815.6	9232.8	9738.1	9299.9
60°	1086.0	981.1	918.3	784.1	687.6	729.6	1306.1	4245.4	7161.5	8132.2	8146.9
62.5°	1027.3	914.1	859.6	702.3	620.6	628.9	1065.0	3568.2	5809.3	6731.8	7132.2
65°	949.7	840.7	775.7	649.9	572.3	545.1	779.9	2614.2	4413.1	5461.3	5916.2
67.5°	849.1	746.3	664.6	566.1	511.5	467.5	532.5	1471.8	2605.9	3666.7	3805.1
70°	742.2	654.1	568.2	486.4	425.5	394.2	390.0	652.0	1245.3	1972.7	2245.3
72.5°	584.9	522.0	452.8	392.1	352.2	306.1	278.8	270.5	421.4	803.0	1109.0
75°	419.3	366.8	327.1	287.2	257.9	232.7	211.8	192.8	176.1	201.3	276.8
77.5°	264.2	245.3	213.9	203.4	186.6	180.3	171.9	161.4	148.9	140.4	140.4
80°	178.2	165.6	155.2	153.1	146.8	144.7	146.8	136.2	123.7	113.2	117.4
82.5°	119.5	117.4	115.3	113.2	115.3	117.4	121.6	119.5	109.0	102.7	104.8
85°	71.3	75.4	79.6	83.8	92.3	81.7	67.1	56.6	50.3	46.1	44.0
87.5°	27.2	37.8	33.6	31.5	33.6	31.5	29.4	27.2	23.0	20.9	20.9
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: P651299

CATALOG NUMBER: GALN-SA3D-840-U-SLR-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4	6419.4
2.5°	6941.4	6983.3	7019.0	7010.6	6937.2	6838.7	6798.8	6595.5	6553.6	6526.3
5°	7035.7	7278.9	7331.3	7299.9	7109.1	6868.0	6633.2	6335.5	6161.5	6155.2
7.5°	6861.7	7161.5	7255.9	7327.1	7073.5	6654.2	6251.7	5805.1	5696.1	5704.5
10°	6419.4	6897.4	7130.1	7203.4	6912.0	6549.4	5991.7	5538.8	5306.1	5301.9
12.5°	6174.1	6549.4	6614.4	6717.1	6631.1	6264.3	5840.7	5333.4	5107.0	5102.8
15°	5956.0	6203.5	6222.3	6367.0	6413.0	6165.7	5880.6	5339.7	5157.3	5138.4
17.5°	6146.9	5974.9	5903.7	5922.5	6058.8	6148.9	6111.2	5696.1	5509.5	5404.7
20°	6274.7	5891.0	5675.2	5696.1	5857.5	6186.6	6455.0	6211.8	5916.2	5928.8
22.5°	6616.4	5903.7	5566.1	5543.0	5798.8	6383.7	6842.9	6863.8	6578.7	6509.5
25°	7128.0	6048.3	5532.6	5526.3	5771.5	6595.5	7295.7	7635.4	7343.9	7216.0
27.5°	7538.9	6274.7	5637.4	5658.3	5857.5	6767.4	7681.4	8132.2	7909.9	7752.8
30°	7899.5	6509.5	5784.1	5687.7	6088.2	6857.5	7847.0	8698.2	8520.0	8390.1
32.5°	8048.3	6842.9	6016.9	5857.5	6278.9	6966.5	8190.9	9247.5	9094.5	8773.7
35°	8299.9	7029.4	6142.7	6130.0	6612.3	7228.6	8352.3	9610.2	9547.3	9262.2
37.5°	8501.2	7218.1	6589.2	6450.8	7069.3	7668.8	8612.3	10111.3	9966.6	9832.4
40°	8656.3	7555.6	7006.4	7188.8	7631.1	8069.3	8851.3	10142.7	10559.8	10170.0
42.5°	8513.8	7857.5	7692.0	8128.0	8547.3	8526.3	8878.5	10385.8	10698.3	10494.9
45°	8478.1	8369.0	8775.8	9172.0	9268.5	8905.8	8683.6	10117.6	10656.3	10566.2
47.5°	8392.2	8872.2	9580.8	10226.6	10079.8	9159.4	8450.9	10069.3	10681.5	10520.1
50°	8362.8	8981.3	10176.3	10805.2	10717.1	9379.6	8341.8	9759.0	10503.2	10488.6
52.5°	8360.7	9205.6	10423.6	11119.6	11174.1	9727.6	8490.7	9916.2	10641.7	10765.3
55°	8455.1	9134.3	10392.2	10945.6	10924.7	9572.4	8507.5	10021.1	10811.5	10933.1
57.5°	7975.0	8182.5	8576.6	9014.8	8901.6	7928.9	7597.6	9264.3	9922.5	9834.5
60°	6886.9	6236.9	5792.6	5771.5	5551.4	5247.4	6218.1	8268.5	8268.5	8182.5
62.5°	6031.5	4094.4	3517.9	3354.3	3511.6	3861.7	5998.0	8042.1	7813.5	7715.0
65°	5274.7	3125.8	2543.0	2496.9	2769.4	3297.7	5423.5	6851.2	6448.7	6121.6
67.5°	3394.2	2289.4	1891.0	1809.2	2138.4	2421.4	3610.1	4213.9	3960.2	3832.4
70°	2188.7	1490.6	1052.4	987.4	1115.3	1492.7	2306.1	2457.1	2088.1	2002.1
72.5°	1035.7	643.6	368.9	304.0	341.7	570.2	912.0	981.1	815.5	746.3
75°	329.2	236.9	151.0	130.0	123.7	146.8	209.7	161.4	117.4	115.3
77.5°	146.8	140.4	119.5	100.7	88.1	73.3	60.8	50.3	52.4	54.5
80°	121.6	111.1	98.6	88.1	73.3	56.6	44.0	33.6	33.6	35.7
82.5°	106.9	96.5	86.0	73.3	62.9	46.1	33.6	23.0	20.9	20.9
85°	46.1	54.5	58.7	62.9	50.3	37.8	23.0	14.6	12.6	12.6
87.5°	18.8	16.7	14.6	12.6	10.5	10.5	8.4	6.3	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)