

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: P529848

Luminaire Tested: **GALN-SA5A-735-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529848  
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-SA5A-735-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH 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: 15889 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

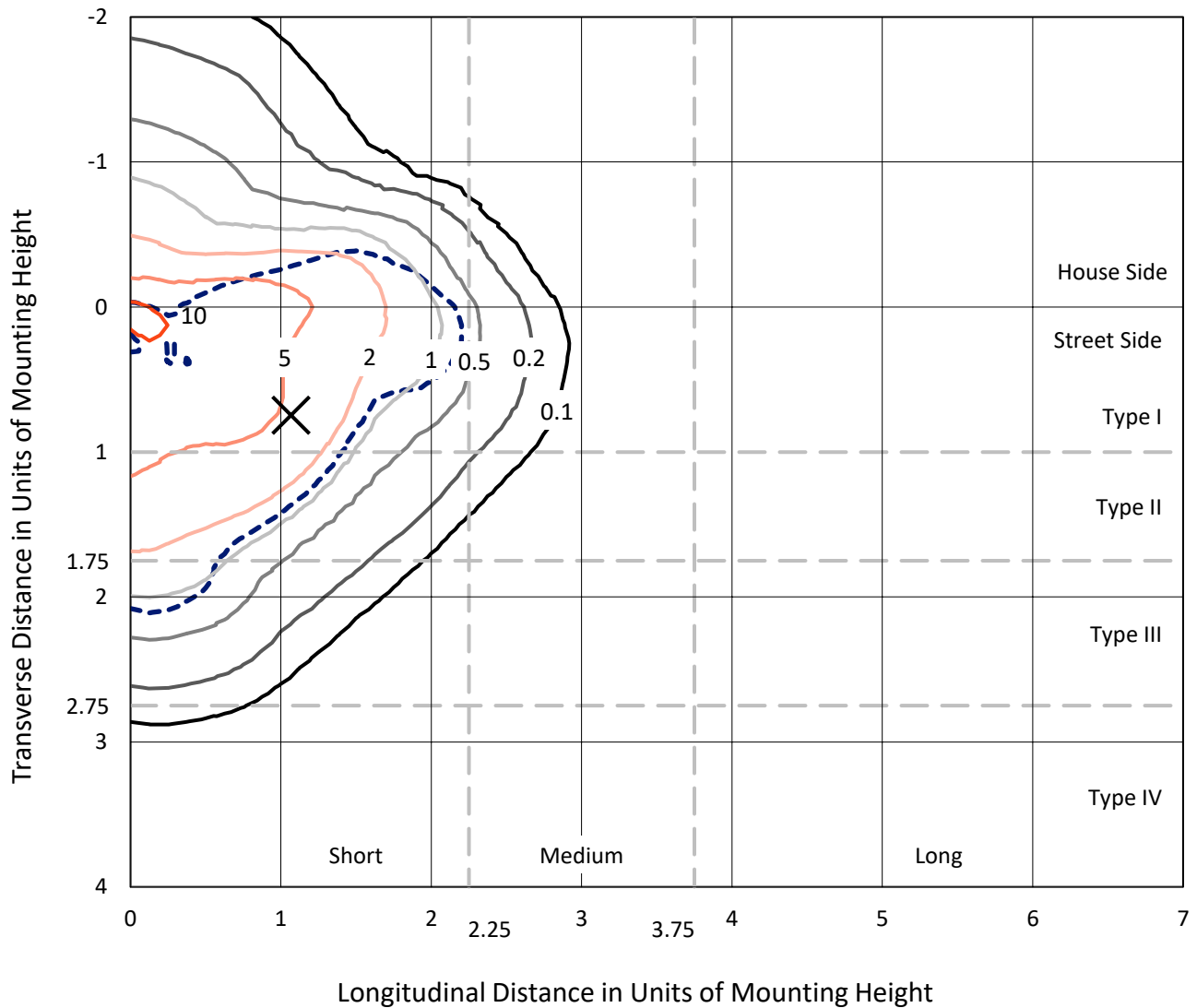
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

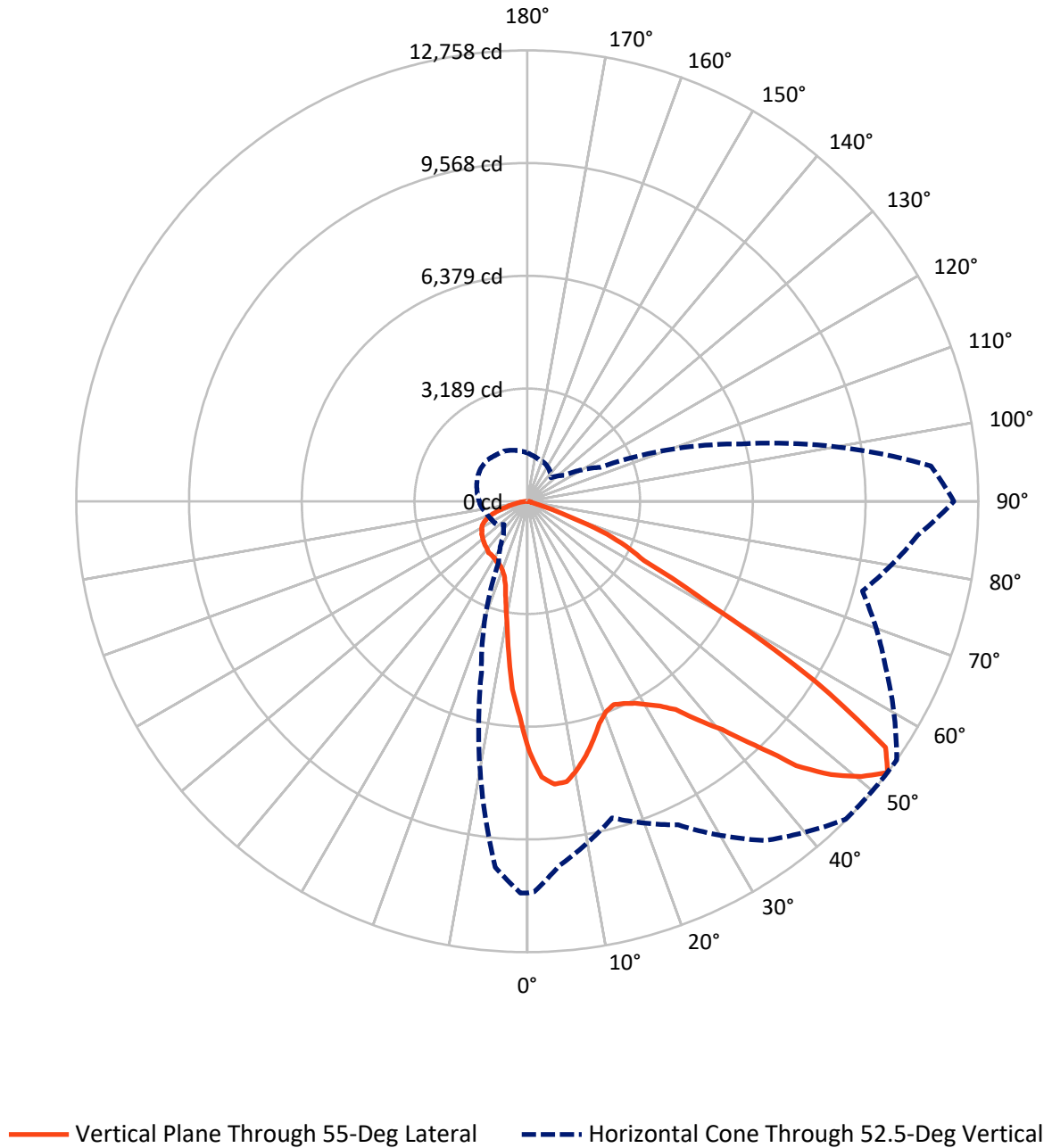
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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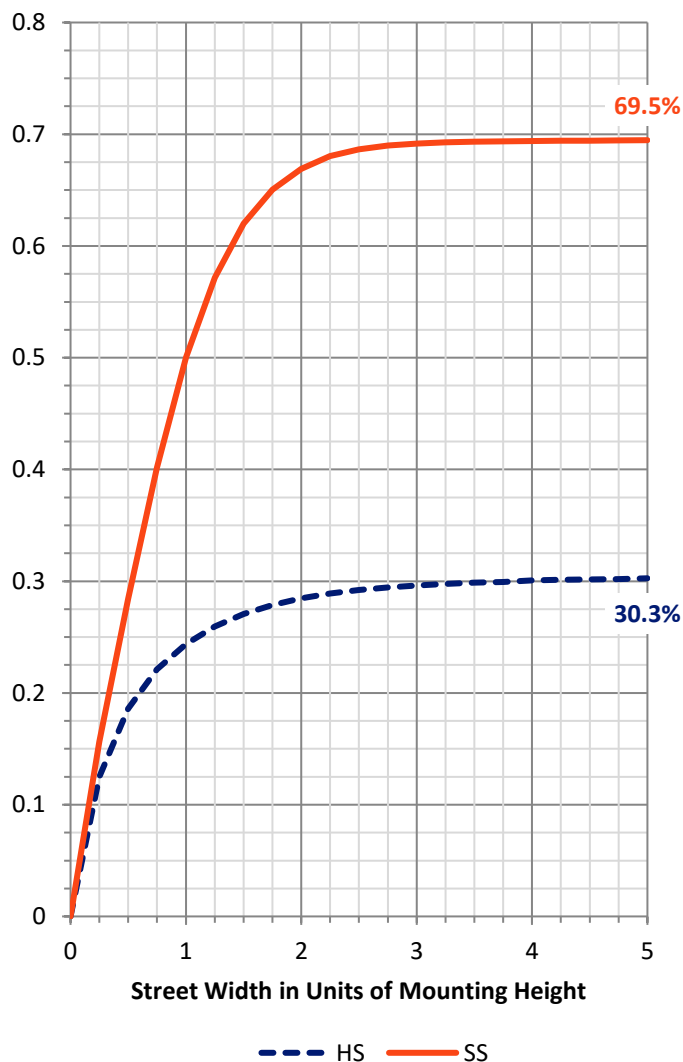
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4847.0	0.0	4847.0
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	11042.0	0.0	11042.0
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	15889.0	0.0	15889.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.5	3.4
10°-20°	1167.5	7.3
20°-30°	1770.3	11.1
30°-40°	2557.9	16.1
40°-50°	3418.0	21.5
50°-60°	3815.3	24.0
60°-70°	2092.8	13.2
70°-80°	452.5	2.8
80°-90°	73.2	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°	15889.0	100.0
0°-180°	15889.0	100.0

**Coefficient of Utilization**



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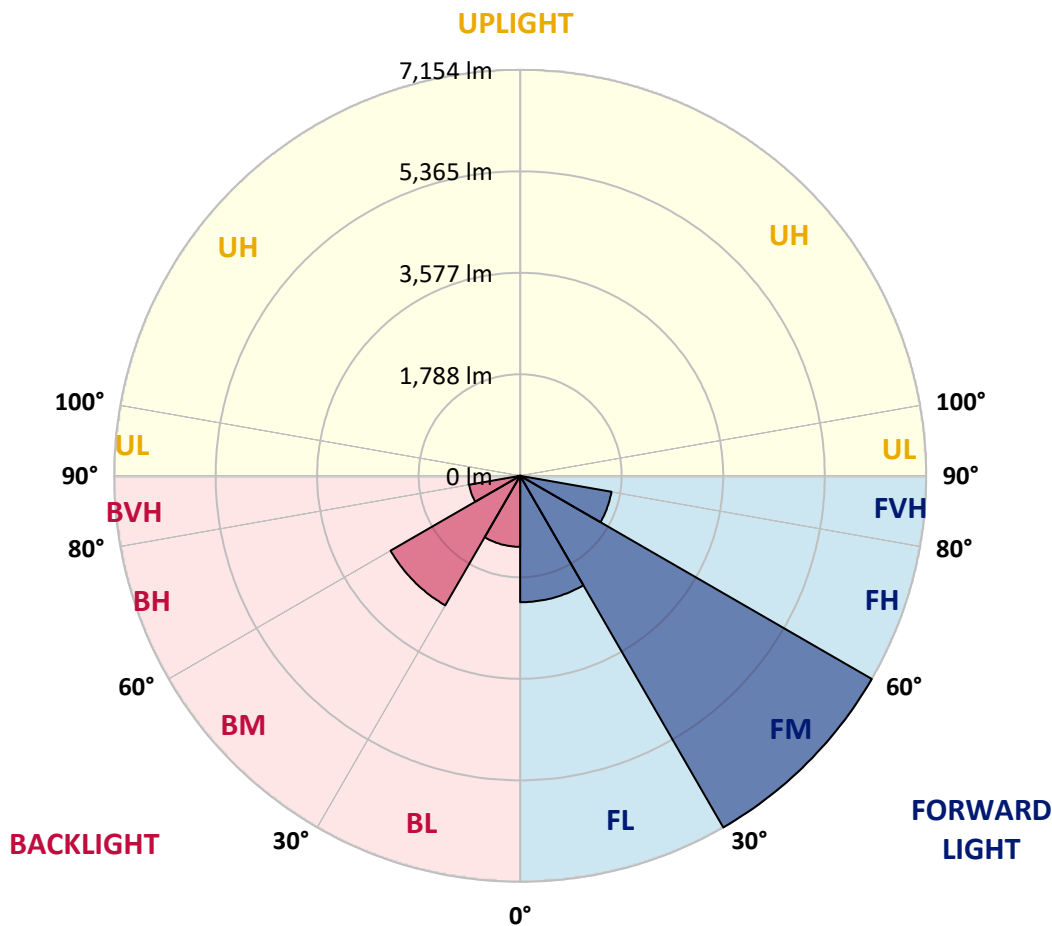
CATALOG NUMBER: GALN-SA5A-735-U-SLL-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2227.9	14.0			
FM (30°-60°)	7154.0	45.0			
FH (60°-80°)	1633.0	10.3			G1/1800
FVH (80°-90°)	27.1	0.2			G1/100
BL (0°-30°)	1251.4	7.9	B3/2500		
BM (30°-60°)	2637.2	16.6	B3/5000		
BH (60°-80°)	912.3	5.7	B2/1000		G2/1000
BVH (80°-90°)	46.1	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7
2.5°	7438.0	7396.3	7433.4	7609.7	7711.8	7781.4	7825.5	7818.5	7651.5	7489.1	7489.1
5°	7220.0	7166.6	7243.2	7642.2	8043.6	8078.4	8136.4	8041.3	7795.3	7498.4	7127.2
7.5°	6588.9	6628.4	6756.0	7280.3	7802.3	8064.5	8134.1	8013.4	7614.4	7059.9	6514.7
10°	6043.7	6136.5	6431.2	6997.2	7477.5	7818.5	7895.1	7725.7	7410.2	6730.4	6243.2
12.5°	5855.8	5797.8	6124.9	6691.0	7150.4	7333.6	7368.4	7380.0	7166.6	6563.4	5969.5
15°	5832.6	5869.7	6124.9	6554.1	6837.2	6846.4	6904.4	6994.9	7022.8	6677.1	6097.1
17.5°	6166.7	6122.6	6384.8	6725.8	6591.2	6456.7	6470.6	6600.5	6830.2	6774.5	6498.4
20°	6660.8	6760.6	6967.1	6932.3	6570.4	6229.3	6231.6	6354.6	6807.0	7178.2	7057.6
22.5°	7482.1	7579.6	7732.7	7312.8	6570.4	6162.0	6083.1	6250.2	6955.5	7658.5	7688.6
25°	8231.5	8410.1	8451.9	7957.7	6899.8	6224.7	6173.6	6338.4	7104.0	8127.1	8412.5
27.5°	8913.6	8978.6	9161.8	8373.0	7083.1	6266.4	6261.8	6472.9	7291.9	8361.4	9059.8
30°	9451.8	9444.9	9549.3	8635.2	7375.4	6500.8	6275.7	6674.8	7537.8	8748.9	9658.3
32.5°	9818.4	9897.3	10117.7	8999.4	7498.4	6723.5	6547.2	6911.4	7837.1	8932.2	10080.6
35°	10463.4	10600.3	10321.9	9201.3	7888.1	6943.9	6737.4	7233.9	7985.6	9131.7	10597.9
37.5°	11071.2	10966.8	10683.8	9310.3	8141.0	7352.2	7159.6	7858.0	8447.3	9565.5	10941.3
40°	11461.0	11458.7	10955.2	9398.5	8319.7	7976.3	7964.7	8491.3	9013.4	9839.3	11326.4
42.5°	11630.4	11792.8	11066.6	9389.2	8695.5	8732.6	8967.0	9437.9	9414.7	9895.0	11317.2
44°	11862.4	11959.8	11259.2	9410.1	8946.1	9243.0	9795.2	10094.5	9765.0	9864.8	11305.6
45°	11853.1	11860.0	10985.4	9437.9	9159.5	9669.9	10164.1	10669.9	10073.6	9799.9	11458.7
47.5°	11581.6	11502.8	10753.4	9231.4	9825.4	10797.5	11254.5	11560.8	10454.1	9660.6	11268.4
50°	11045.7	10955.2	10189.6	9143.3	9964.6	11498.1	12129.2	12240.5	10799.8	9523.8	11080.5
52.5°	11082.8	11057.3	10349.7	9275.5	10103.8	11718.5	12730.1	12757.9	11191.9	9811.5	11082.8
55°	11746.4	11658.2	10809.1	9440.2	10001.7	11461.0	12347.3	12298.5	11059.6	9637.4	11287.0
57.5°	10748.7	10806.7	10173.4	8788.3	8753.5	9317.3	9707.0	9586.4	9229.1	8697.8	10500.5
60°	8672.3	8837.0	8897.4	7349.9	6605.2	6315.1	6199.1	5985.7	6046.0	7145.7	9224.5
62.5°	7438.0	7428.8	7806.9	6663.2	4326.9	3721.3	3665.7	3714.4	4410.4	7034.4	9034.2
65°	5897.5	6055.3	6171.3	5647.0	3424.4	2763.2	2760.8	3069.4	3816.5	5879.0	7294.2
67.5°	3744.5	3951.0	4094.9	3612.3	2289.9	1967.4	1914.0	2285.2	2644.8	3855.9	4391.8
70°	2111.2	2208.7	2273.6	2083.4	1457.0	1020.8	960.5	1048.7	1598.5	2496.4	2603.1
72.5°	814.3	858.4	946.6	953.5	549.8	329.4	266.8	320.2	672.8	988.3	941.9
75°	125.3	134.6	190.2	227.4	157.8	120.6	127.6	132.2	187.9	255.2	213.4
77.5°	60.3	60.3	58.0	67.3	78.9	85.8	92.8	102.1	111.4	123.0	118.3
80°	39.4	39.4	39.4	46.4	58.0	69.6	78.9	83.5	88.2	97.4	92.8
82.5°	25.5	25.5	25.5	34.8	46.4	58.0	62.6	74.2	83.5	97.4	90.5
85°	13.9	13.9	13.9	23.2	34.8	48.7	46.4	37.1	20.9	2.3	4.6
87.5°	4.6	4.6	4.6	4.6	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°	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7
2.5°	7294.2	7187.5	7178.2	6960.1	6765.2	6670.1	6593.6	6380.1	6426.5	6303.5	6301.2
5°	6941.6	6723.5	6370.8	6080.8	5790.8	5732.8	5479.9	5259.5	5266.5	5108.7	5136.6
7.5°	6308.2	6157.4	5728.2	5273.5	4888.3	4614.6	4375.6	4231.8	4048.5	3985.8	3953.3
10°	5906.8	5721.2	5238.7	4667.9	4236.4	4090.2	3860.5	3732.9	3545.0	3452.2	3387.3
12.5°	5730.5	5459.1	4855.8	4275.8	3988.1	3837.3	3642.5	3410.5	3187.7	3101.9	2983.6
15°	5749.1	5424.3	4744.5	4118.1	3772.4	3480.1	3306.1	3048.5	2821.2	2670.4	2584.5
17.5°	6029.8	5635.4	4795.5	3997.4	3500.9	3134.4	2793.3	2514.9	2334.0	2220.3	2192.4
20°	6693.3	6157.4	4881.4	3802.5	3229.5	2772.4	2352.5	2062.5	1923.3	1921.0	1923.3
22.5°	7245.5	6714.2	5055.4	3686.5	2958.1	2308.4	1890.8	1798.0	1770.2	1828.2	1835.2
25°	7990.2	7340.6	5354.7	3626.2	2707.5	1967.4	1709.9	1675.1	1672.7	1747.0	1749.3
27.5°	8753.5	7888.1	5533.3	3449.9	2452.3	1791.1	1600.8	1593.9	1631.0	1709.9	1702.9
30°	9273.2	8347.5	5855.8	3238.8	2150.7	1635.6	1556.7	1566.0	1617.1	1677.4	1686.7
32.5°	9878.7	8799.9	5939.3	3122.8	1965.1	1505.7	1450.0	1470.9	1535.9	1631.0	1682.0
35°	10572.4	9120.1	6066.9	2965.0	1895.5	1405.9	1378.1	1401.3	1480.2	1542.8	1598.5
37.5°	11085.2	9686.2	6090.1	2842.0	1818.9	1350.3	1306.2	1382.7	1429.1	1517.3	1545.1
40°	11465.6	10096.8	6150.4	2765.5	1758.6	1278.3	1278.3	1329.4	1392.0	1473.2	1528.9
42.5°	11709.2	10396.1	6194.5	2695.9	1642.6	1257.5	1245.9	1296.9	1380.4	1459.3	1484.8
44°	11857.7	10523.7	6150.4	2630.9	1610.1	1231.9	1231.9	1276.0	1341.0	1433.8	1463.9
45°	11894.8	10683.8	6053.0	2628.6	1570.7	1201.8	1197.1	1280.7	1324.7	1438.4	1457.0
47.5°	12038.7	10881.0	6064.6	2554.4	1475.5	1129.9	1211.1	1248.2	1287.6	1387.4	1450.0
50°	12034.0	11004.0	6039.1	2445.3	1405.9	1048.7	1183.2	1225.0	1264.4	1366.5	1392.0
52.5°	12066.5	11463.3	6273.4	2271.3	1280.7	944.3	1090.4	1183.2	1231.9	1317.8	1371.1
55°	12050.3	11725.5	6505.4	2141.4	1104.3	881.6	1011.5	1120.6	1190.2	1280.7	1306.2
57.5°	11006.3	10363.6	6020.5	1897.8	914.1	807.4	900.2	1055.6	1143.8	1236.6	1269.1
60°	8992.5	7987.9	4964.9	1396.7	751.7	742.4	837.5	1034.7	1071.9	1153.1	1208.7
62.5°	8310.4	7006.5	3937.1	1067.2	642.7	679.8	772.6	935.0	993.0	1092.7	1143.8
65°	6503.1	4654.0	2438.4	721.5	566.1	610.2	698.3	819.0	914.1	1006.9	1067.2
67.5°	3851.3	2542.8	1206.4	505.8	494.2	540.6	631.1	721.5	830.6	932.7	962.8
70°	2097.3	1250.5	515.0	385.1	419.9	461.7	549.8	612.5	716.9	795.8	846.8
72.5°	672.8	380.5	257.5	285.4	320.2	368.9	422.2	498.8	573.0	619.5	661.2
75°	162.4	160.1	183.3	199.5	232.0	269.1	313.2	352.6	410.6	454.7	491.8
77.5°	113.7	123.0	141.5	164.7	176.3	190.2	218.1	248.2	273.8	306.2	329.4
80°	88.2	95.1	109.0	120.6	132.2	143.8	157.8	169.4	185.6	206.5	218.1
82.5°	83.5	88.2	102.1	109.0	104.4	102.1	111.4	116.0	118.3	125.3	132.2
85°	7.0	0.0	4.6	16.2	39.4	58.0	62.6	62.6	60.3	65.0	65.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	9.3	7.0
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7
2.5°	6273.4	6194.5	6224.7	6261.8	6208.4	6085.5	6117.9	6104.0	6229.3	6220.0	6345.3
5°	5259.5	5136.6	5150.5	5331.5	5273.5	5336.1	5210.8	5194.6	5217.8	5229.4	5250.3
7.5°	4025.3	4009.0	4148.2	4301.4	4373.3	4299.0	4176.1	4148.2	4122.7	4071.7	4187.7
10°	3285.2	3289.8	3280.5	3396.5	3477.7	3461.5	3387.3	3378.0	3329.3	3310.7	3375.7
12.5°	2932.5	2869.9	2839.7	2802.6	2865.2	2907.0	2874.5	2851.3	2853.6	2876.8	2886.1
15°	2591.5	2552.0	2487.1	2445.3	2475.5	2454.6	2443.0	2489.4	2477.8	2473.2	2528.8
17.5°	2208.7	2241.2	2236.5	2190.1	2229.6	2213.3	2211.0	2178.5	2134.4	2102.0	2120.5
20°	1955.8	2016.1	2062.5	2064.8	2085.7	2083.4	2048.6	1948.8	1916.4	1909.4	1914.0
22.5°	1865.3	1897.8	1953.5	2032.4	2032.4	1995.2	1953.5	1837.5	1807.3	1774.8	1760.9
25°	1793.4	1856.0	1928.0	1937.2	1974.4	1939.6	1872.3	1814.3	1751.6	1707.5	1707.5
27.5°	1756.3	1825.9	1879.2	1895.5	1946.5	1918.7	1849.1	1774.8	1700.6	1698.3	1658.8
30°	1740.0	1805.0	1839.8	1879.2	1902.4	1858.4	1837.5	1758.6	1684.3	1665.8	1600.8
32.5°	1691.3	1784.1	1849.1	1839.8	1858.4	1839.8	1809.6	1744.7	1661.1	1619.4	1612.4
35°	1635.6	1728.4	1798.0	1846.8	1858.4	1818.9	1800.4	1712.2	1598.5	1577.6	1505.7
37.5°	1605.5	1661.1	1747.0	1825.9	1842.1	1821.2	1758.6	1668.1	1554.4	1531.2	1468.6
40°	1568.3	1640.3	1707.5	1772.5	1821.2	1770.2	1698.3	1610.1	1559.1	1489.5	1470.9
42.5°	1540.5	1621.7	1677.4	1749.3	1805.0	1737.7	1654.2	1593.9	1521.9	1475.5	1422.2
44°	1531.2	1605.5	1642.6	1730.8	1777.2	1726.1	1656.5	1593.9	1510.3	1468.6	1422.2
45°	1498.7	1600.8	1640.3	1719.1	1758.6	1716.8	1628.7	1566.0	1505.7	1454.7	1405.9
47.5°	1466.3	1535.9	1603.1	1665.8	1693.6	1679.7	1605.5	1528.9	1457.0	1426.8	1380.4
50°	1457.0	1526.6	1589.2	1647.2	1679.7	1651.9	1584.6	1510.3	1426.8	1378.1	1338.7
52.5°	1410.6	1496.4	1566.0	1584.6	1626.3	1610.1	1559.1	1477.9	1399.0	1357.2	1324.7
55°	1343.3	1433.8	1528.9	1552.1	1612.4	1586.9	1510.3	1433.8	1366.5	1303.9	1262.1
57.5°	1317.8	1405.9	1498.7	1528.9	1566.0	1524.3	1505.7	1424.5	1317.8	1285.3	1220.3
60°	1252.8	1364.2	1440.7	1510.3	1512.7	1501.1	1468.6	1375.8	1287.6	1227.3	1180.9
62.5°	1201.8	1306.2	1366.5	1431.5	1470.9	1438.4	1405.9	1320.1	1225.0	1157.7	1104.3
65°	1127.5	1222.7	1273.7	1313.1	1357.2	1352.6	1296.9	1234.3	1134.5	1081.1	1030.1
67.5°	1013.9	1097.4	1167.0	1204.1	1231.9	1225.0	1183.2	1139.1	1037.1	983.7	946.6
70°	877.0	962.8	1006.9	1027.8	1055.6	1069.5	1037.1	1016.2	925.7	856.1	821.3
72.5°	705.3	761.0	825.9	844.5	856.1	865.4	865.4	846.8	754.0	726.2	665.9
75°	519.7	563.8	612.5	612.5	633.4	635.7	640.3	628.7	559.1	522.0	508.1
77.5°	352.6	385.1	424.6	440.8	454.7	452.4	450.1	417.6	380.5	364.2	350.3
80°	229.7	262.2	280.7	301.6	315.5	313.2	317.8	294.6	278.4	250.6	255.2
82.5°	136.9	162.4	181.0	206.5	206.5	213.4	213.4	206.5	190.2	176.3	176.3
85°	65.0	85.8	97.4	113.7	123.0	125.3	111.4	95.1	78.9	71.9	78.9
87.5°	11.6	16.2	23.2	20.9	25.5	23.2	23.2	23.2	23.2	18.6	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: P529848

CATALOG NUMBER: GALN-SA5A-735-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7
2.5°	6298.9	6414.9	6496.1	6630.7	6862.7	7048.3	7238.5	7380.0	7396.3	7438.0
5°	5326.8	5389.5	5595.9	5865.1	6055.3	6368.5	6570.4	6936.9	7073.8	7220.0
7.5°	4159.8	4261.9	4538.0	4719.0	5136.6	5528.7	5934.7	6387.1	6568.0	6588.9
10°	3507.9	3656.4	3844.3	4134.3	4361.7	4797.8	5303.6	5807.1	6008.9	6043.7
12.5°	3081.0	3271.3	3521.8	3730.6	3948.7	4329.2	4814.1	5435.9	5698.0	5855.8
15°	2670.4	2867.6	3143.7	3433.7	3626.2	4081.0	4651.7	5352.3	5693.4	5832.6
17.5°	2248.1	2431.4	2658.8	2972.0	3359.4	3869.8	4626.2	5630.7	6004.3	6166.7
20°	1886.2	1988.3	2252.8	2575.2	3060.1	3654.1	4635.4	6041.4	6588.9	6660.8
22.5°	1744.7	1767.9	1872.3	2169.2	2700.5	3433.7	4800.2	6623.7	7245.5	7482.1
25°	1635.6	1631.0	1658.8	1858.4	2438.4	3347.8	4962.6	7159.6	7974.0	8231.5
27.5°	1575.3	1528.9	1531.2	1719.1	2252.8	3208.6	5171.4	7774.5	8799.9	8913.6
30°	1545.1	1535.9	1508.0	1584.6	2050.9	2999.8	5206.2	8380.0	9287.1	9451.8
32.5°	1526.6	1436.1	1401.3	1429.1	1860.7	2772.4	5336.1	8779.0	9890.3	9818.4
35°	1433.8	1352.6	1329.4	1357.2	1726.1	2644.8	5250.3	9127.0	10342.7	10463.4
37.5°	1399.0	1327.1	1280.7	1257.5	1600.8	2538.1	5206.2	9663.0	10781.2	11071.2
40°	1366.5	1289.9	1234.3	1211.1	1503.4	2396.6	5192.3	10075.9	11287.0	11461.0
42.5°	1329.4	1280.7	1218.0	1176.3	1385.1	2255.1	5032.2	10203.5	11442.4	11630.4
44°	1317.8	1243.5	1178.6	1164.7	1338.7	2183.2	4999.7	10319.5	11577.0	11862.4
45°	1306.2	1236.6	1162.3	1143.8	1322.4	2143.7	4955.6	10347.4	11799.7	11853.1
47.5°	1273.7	1229.6	1157.7	1106.7	1287.6	2057.9	4823.4	10189.6	11572.4	11581.6
50°	1248.2	1197.1	1122.9	1023.1	1241.2	1986.0	4883.7	10131.6	11024.8	11045.7
52.5°	1220.3	1143.8	1102.0	930.3	1164.7	1925.6	5011.3	10393.8	11087.5	11082.8
55°	1187.9	1104.3	1002.3	851.5	1037.1	1849.1	5319.9	10911.1	11667.5	11746.4
57.5°	1136.8	1064.9	918.7	781.9	890.9	1702.9	5220.1	9920.5	10734.8	10748.7
60°	1069.5	1002.3	832.9	728.5	730.8	1343.3	4667.9	7730.4	8470.5	8672.3
62.5°	1004.6	967.5	761.0	651.9	621.8	1069.5	3946.4	6424.2	7271.0	7438.0
65°	928.0	837.5	698.3	593.9	533.6	749.4	2795.6	4800.2	5672.5	5897.5
67.5°	830.6	733.1	614.8	522.0	457.0	501.1	1443.1	2728.4	3612.3	3744.5
70°	726.2	635.7	517.4	440.8	368.9	345.7	635.7	1301.5	1974.4	2111.2
72.5°	596.3	512.7	413.0	348.0	276.1	239.0	213.4	348.0	700.7	814.3
75°	431.5	373.5	310.9	248.2	194.9	153.1	125.3	104.4	116.0	125.3
77.5°	317.8	271.4	229.7	176.3	136.9	109.0	85.8	65.0	62.6	60.3
80°	248.2	220.4	183.3	141.5	106.7	81.2	60.3	44.1	39.4	39.4
82.5°	194.9	181.0	150.8	116.0	88.2	65.0	44.1	30.2	25.5	25.5
85°	74.2	74.2	109.0	95.1	67.3	46.4	30.2	16.2	13.9	13.9
87.5°	18.6	18.6	18.6	18.6	16.2	13.9	13.9	7.0	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)