

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: P532578

Luminaire Tested: **GALN-SA8A-722-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532578  
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-SA8A-722-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2200K, 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: 20218 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

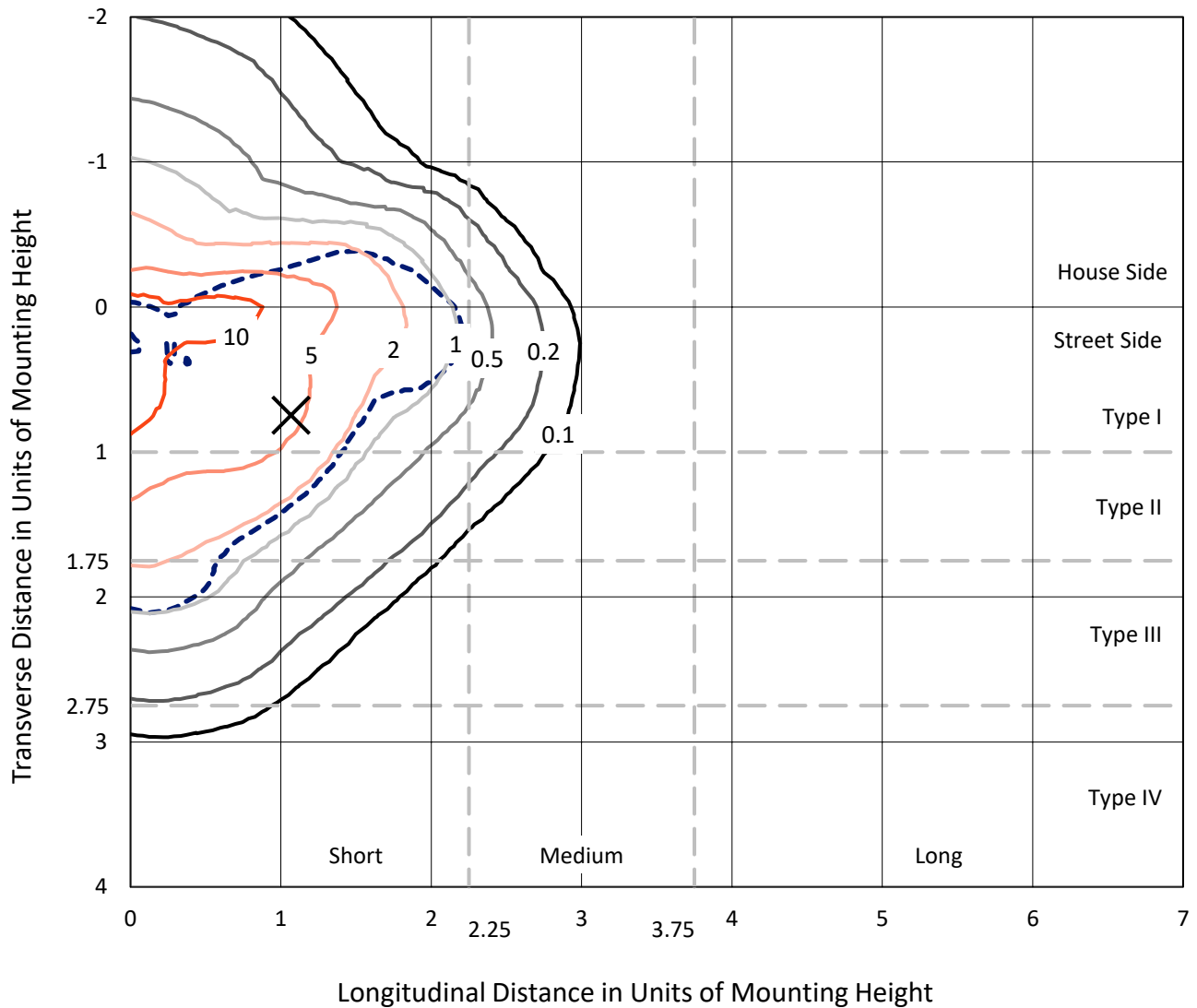
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

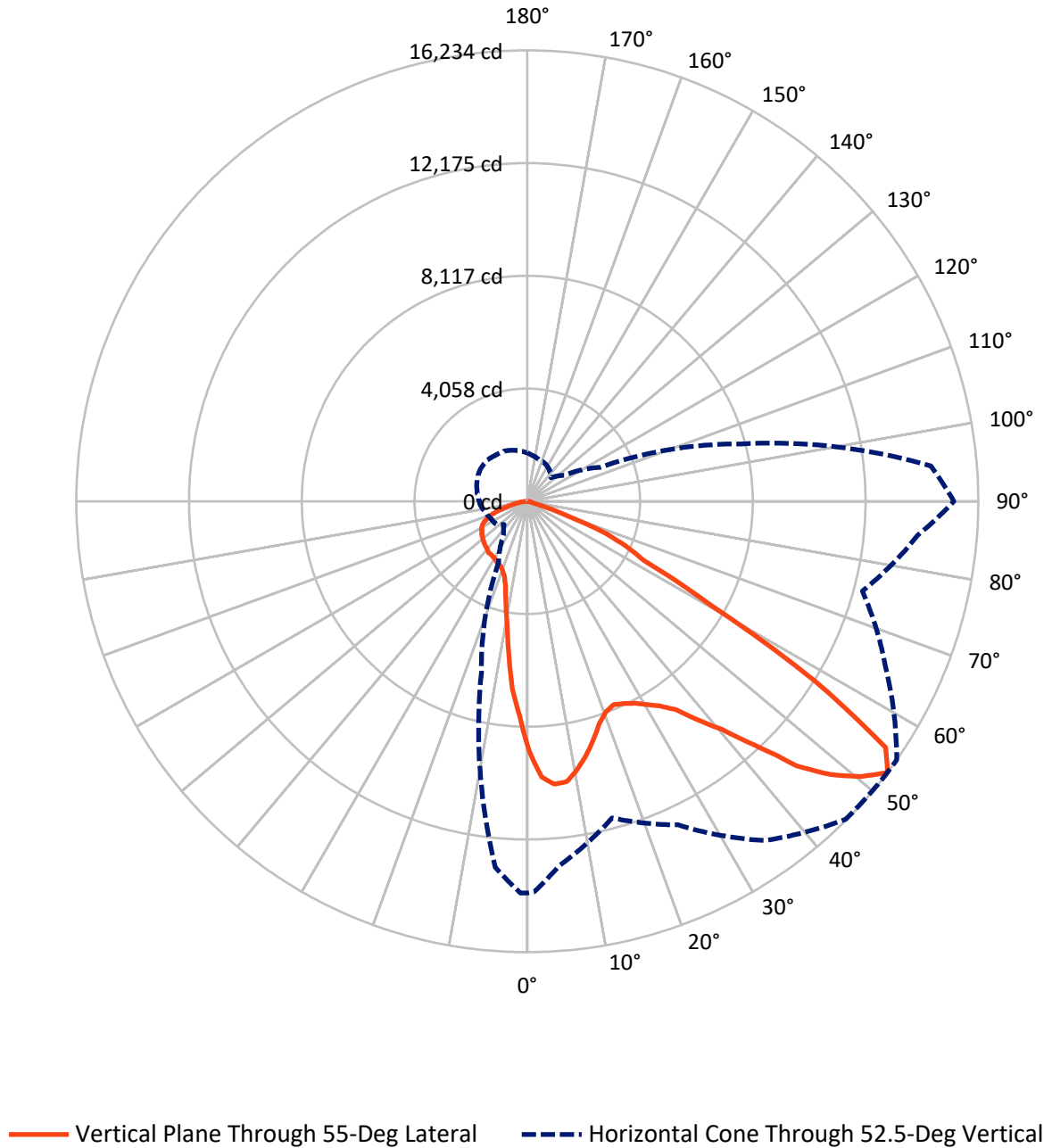
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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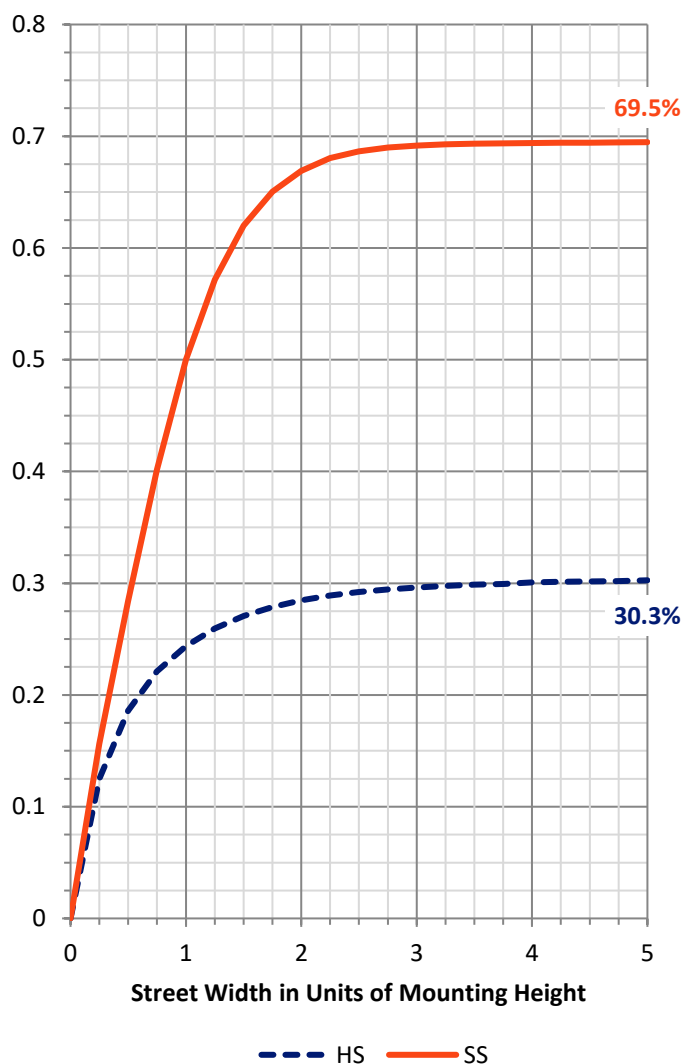
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6167.6	0.0	6167.6
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	14050.4	0.0	14050.4
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	20218.0	0.0	20218.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	689.0	3.4
10°-20°	1485.6	7.3
20°-30°	2252.7	11.1
30°-40°	3254.8	16.1
40°-50°	4349.3	21.5
50°-60°	4854.7	24.0
60°-70°	2663.0	13.2
70°-80°	575.7	2.8
80°-90°	93.1	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°	20218.0	100.0
0°-180°	20218.0	100.0

**Coefficient of Utilization**



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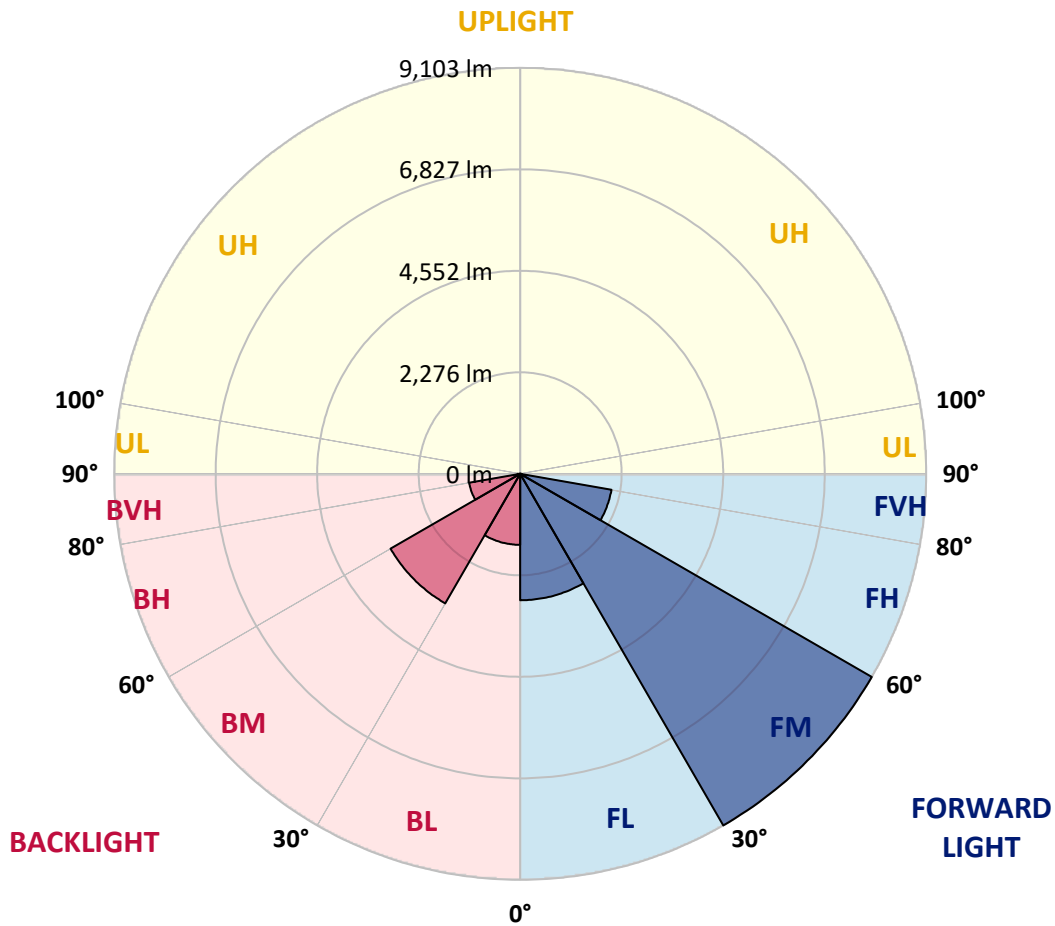
CATALOG NUMBER: GALN-SA8A-722-U-SLL-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2834.9	14.0			
FM (30°-60°)	9103.1	45.0			
FH (60°-80°)	2077.9	10.3			G2/5000
FVH (80°-90°)	34.5	0.2			G1/100
BL (0°-30°)	1592.4	7.9	B3/2500		
BM (30°-60°)	3355.7	16.6	B3/5000		
BH (60°-80°)	1160.9	5.7	B3/2500		G3/2500
BVH (80°-90°)	58.7	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8
2.5°	9464.6	9411.4	9458.7	9683.0	9812.9	9901.5	9957.6	9948.7	9736.2	9529.5	9529.5
5°	9187.1	9119.2	9216.6	9724.4	10235.1	10279.4	10353.2	10232.1	9919.2	9541.3	9069.0
7.5°	8384.1	8434.3	8596.6	9263.8	9928.1	10261.6	10350.2	10196.7	9688.9	8983.4	8289.6
10°	7690.3	7808.4	8183.3	8903.7	9514.8	9948.7	10046.1	9830.6	9429.1	8564.2	7944.2
12.5°	7451.2	7377.4	7793.7	8514.0	9098.5	9331.7	9376.0	9390.8	9119.2	8351.6	7595.9
15°	7421.7	7468.9	7793.7	8339.8	8700.0	8711.8	8785.6	8900.7	8936.1	8496.3	7758.2
17.5°	7846.8	7790.7	8124.3	8558.3	8387.0	8215.8	8233.5	8398.8	8691.1	8620.3	8268.9
20°	8475.6	8602.5	8865.3	8821.0	8360.5	7926.5	7929.5	8085.9	8661.6	9133.9	8980.4
22.5°	9520.7	9644.6	9839.5	9305.1	8360.5	7840.9	7740.5	7953.1	8850.5	9745.0	9783.4
25°	10474.2	10701.5	10754.7	10125.8	8779.7	7920.6	7855.6	8065.3	9039.5	10341.4	10704.5
27.5°	11342.1	11424.8	11658.0	10654.3	9012.9	7973.7	7967.8	8236.5	9278.6	10639.5	11528.1
30°	12027.0	12018.2	12151.0	10987.9	9384.9	8271.9	7985.5	8493.3	9591.5	11132.5	12289.8
32.5°	12493.5	12593.8	12874.3	11451.4	9541.3	8555.3	8330.9	8794.4	9972.3	11365.7	12827.1
35°	13314.2	13488.3	13134.1	11708.2	10037.3	8835.8	8573.0	9204.8	10161.3	11619.6	13485.4
37.5°	14087.6	13954.8	13594.6	11846.9	10359.1	9355.3	9110.3	9998.9	10748.7	12171.7	13922.3
40°	14583.6	14580.6	13940.0	11959.1	10586.4	10149.5	10134.7	10804.8	11469.1	12520.0	14412.4
42.5°	14799.1	15005.7	14081.7	11947.3	11064.6	11111.9	11410.0	12009.3	11979.8	12590.9	14400.5
44°	15094.3	15218.3	14326.7	11973.9	11383.5	11761.3	12463.9	12844.8	12425.6	12552.5	14385.8
45°	15082.5	15091.3	13978.4	12009.3	11655.1	12304.5	12933.3	13576.9	12818.2	12469.8	14580.6
47.5°	14737.1	14636.7	13683.2	11746.6	12502.3	13739.3	14320.8	14710.5	13302.3	12292.7	14338.6
50°	14055.1	13940.0	12965.8	11634.4	12679.4	14630.8	15433.8	15575.5	13742.2	12118.5	14099.4
52.5°	14102.4	14069.9	13169.5	11802.7	12856.6	14911.3	16198.4	16233.8	14241.1	12484.6	14102.4
55°	14946.7	14834.5	13754.0	12012.3	12726.7	14583.6	15711.3	15649.3	14072.9	12263.2	14362.2
57.5°	13677.3	13751.1	12945.1	11182.7	11138.4	11855.8	12351.8	12198.2	11743.6	11067.6	13361.4
60°	11035.1	11244.7	11321.5	9352.4	8404.7	8035.7	7888.1	7616.5	7693.3	9092.6	11737.7
62.5°	9464.6	9452.8	9934.0	8478.6	5505.7	4735.2	4664.4	4726.4	5612.0	8950.9	11495.6
65°	7504.3	7705.1	7852.7	7185.5	4357.4	3516.0	3513.0	3905.7	4856.3	7480.7	9281.5
67.5°	4764.8	5027.5	5210.5	4596.5	2913.8	2503.4	2435.5	2907.9	3365.4	4906.5	5588.4
70°	2686.4	2810.4	2893.1	2651.0	1853.9	1298.9	1222.2	1334.4	2034.0	3176.5	3312.3
72.5°	1036.2	1092.3	1204.5	1213.3	699.7	419.2	339.5	407.4	856.1	1257.6	1198.6
75°	159.4	171.2	242.1	289.3	200.7	153.5	162.4	168.3	239.1	324.7	271.6
77.5°	76.8	76.8	73.8	85.6	100.4	109.2	118.1	129.9	141.7	156.5	150.6
80°	50.2	50.2	50.2	59.0	73.8	88.6	100.4	106.3	112.2	124.0	118.1
82.5°	32.5	32.5	32.5	44.3	59.0	73.8	79.7	94.5	106.3	124.0	115.1
85°	17.7	17.7	17.7	29.5	44.3	62.0	59.0	47.2	26.6	3.0	5.9
87.5°	5.9	5.9	5.9	5.9	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°	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8
2.5°	9281.5	9145.7	9133.9	8856.4	8608.4	8487.4	8390.0	8118.4	8177.4	8021.0	8018.0
5°	8832.8	8555.3	8106.6	7737.6	7368.5	7294.7	6973.0	6692.5	6701.4	6500.6	6536.0
7.5°	8026.9	7835.0	7288.8	6710.2	6220.2	5871.8	5567.7	5384.7	5151.5	5071.8	5030.4
10°	7516.2	7280.0	6665.9	5939.7	5390.6	5204.6	4912.4	4750.0	4510.9	4392.8	4310.1
12.5°	7291.8	6946.4	6178.8	5440.8	5074.7	4882.8	4634.9	4339.6	4056.2	3947.0	3796.5
15°	7315.4	6902.1	6037.1	5240.1	4800.2	4428.2	4206.8	3879.1	3589.8	3397.9	3288.7
17.5°	7672.6	7170.8	6102.1	5086.5	4454.8	3988.3	3554.4	3200.1	2969.9	2825.2	2789.8
20°	8516.9	7835.0	6211.3	4838.6	4109.4	3527.8	2993.5	2624.5	2447.3	2444.4	2447.3
22.5°	9219.5	8543.5	6432.7	4691.0	3764.0	2937.4	2406.0	2287.9	2252.5	2326.3	2335.1
25°	10167.2	9340.6	6813.5	4614.2	3445.1	2503.4	2175.7	2131.4	2128.5	2223.0	2225.9
27.5°	11138.4	10037.3	7040.9	4389.8	3120.4	2279.1	2037.0	2028.1	2075.4	2175.7	2166.9
30°	11799.7	10621.8	7451.2	4121.2	2736.6	2081.3	1980.9	1992.7	2057.6	2134.4	2146.2
32.5°	12570.2	11197.5	7557.5	3973.6	2500.5	1915.9	1845.1	1871.7	1954.3	2075.4	2140.3
35°	13452.9	11604.9	7719.8	3772.8	2411.9	1789.0	1753.6	1783.1	1883.5	1963.2	2034.0
37.5°	14105.3	12325.2	7749.4	3616.4	2314.5	1718.1	1662.1	1759.5	1818.5	1930.7	1966.1
40°	14589.5	12847.7	7826.1	3519.0	2237.7	1626.6	1626.6	1691.6	1771.3	1874.6	1945.5
42.5°	14899.5	13228.5	7882.2	3430.4	2090.1	1600.1	1585.3	1650.2	1756.5	1856.9	1889.4
44°	15088.4	13390.9	7826.1	3347.7	2048.8	1567.6	1567.6	1623.7	1706.3	1824.4	1862.8
45°	15135.6	13594.6	7702.1	3344.8	1998.6	1529.2	1523.3	1629.6	1685.7	1830.3	1853.9
47.5°	15318.7	13845.5	7716.9	3250.3	1877.6	1437.7	1541.0	1588.3	1638.4	1765.4	1845.1
50°	15312.8	14002.0	7684.4	3111.6	1789.0	1334.4	1505.6	1558.7	1608.9	1738.8	1771.3
52.5°	15354.1	14586.5	7982.6	2890.1	1629.6	1201.5	1387.5	1505.6	1567.6	1676.8	1744.7
55°	15333.4	14920.1	8277.8	2724.8	1405.2	1121.8	1287.1	1425.9	1514.4	1629.6	1662.1
57.5°	14005.0	13187.2	7660.8	2414.9	1163.1	1027.3	1145.4	1343.2	1455.4	1573.5	1614.8
60°	11442.5	10164.2	6317.6	1777.2	956.5	944.7	1065.7	1316.7	1363.9	1467.2	1538.1
62.5°	10574.6	8915.5	5009.8	1358.0	817.7	865.0	983.1	1189.7	1263.5	1390.5	1455.4
65°	8274.9	5922.0	3102.7	918.1	720.3	776.4	888.6	1042.1	1163.1	1281.2	1358.0
67.5°	4900.6	3235.5	1535.1	643.6	628.8	687.8	803.0	918.1	1056.9	1186.8	1225.1
70°	2668.7	1591.2	655.4	490.1	534.3	587.5	699.7	779.4	912.2	1012.6	1077.5
72.5°	856.1	484.2	327.7	363.1	407.4	469.4	537.3	634.7	729.2	788.2	841.4
75°	206.6	203.7	233.2	253.9	295.2	342.4	398.5	448.7	522.5	578.6	625.9
77.5°	144.7	156.5	180.1	209.6	224.4	242.1	277.5	315.9	348.4	389.7	419.2
80°	112.2	121.0	138.8	153.5	168.3	183.0	200.7	215.5	236.2	262.7	277.5
82.5°	106.3	112.2	129.9	138.8	132.8	129.9	141.7	147.6	150.6	159.4	168.3
85°	8.9	0.0	5.9	20.7	50.2	73.8	79.7	79.7	76.8	82.7	82.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	11.8	8.9
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°	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8
2.5°	7982.6	7882.2	7920.6	7967.8	7899.9	7743.5	7784.8	7767.1	7926.5	7914.7	8074.1
5°	6692.5	6536.0	6553.8	6784.0	6710.2	6789.9	6630.5	6609.8	6639.4	6654.1	6680.7
7.5°	5122.0	5101.3	5278.4	5473.3	5564.8	5470.3	5313.9	5278.4	5246.0	5181.0	5328.6
10°	4180.2	4186.1	4174.3	4321.9	4425.3	4404.6	4310.1	4298.3	4236.3	4212.7	4295.4
12.5°	3731.5	3651.8	3613.4	3566.2	3645.9	3699.0	3657.7	3628.2	3631.1	3660.7	3672.5
15°	3297.5	3247.4	3164.7	3111.6	3149.9	3123.4	3108.6	3167.6	3152.9	3147.0	3217.8
17.5°	2810.4	2851.8	2845.9	2786.8	2837.0	2816.3	2813.4	2772.1	2716.0	2674.6	2698.3
20°	2488.7	2565.4	2624.5	2627.4	2654.0	2651.0	2606.7	2479.8	2438.5	2429.6	2435.5
22.5°	2373.5	2414.9	2485.7	2586.1	2586.1	2538.8	2485.7	2338.1	2299.7	2258.4	2240.7
25°	2282.0	2361.7	2453.2	2465.0	2512.3	2468.0	2382.4	2308.6	2228.9	2172.8	2172.8
27.5°	2234.8	2323.3	2391.2	2411.9	2476.8	2441.4	2352.9	2258.4	2163.9	2161.0	2110.8
30°	2214.1	2296.8	2341.0	2391.2	2420.8	2364.7	2338.1	2237.7	2143.3	2119.6	2037.0
32.5°	2152.1	2270.2	2352.9	2341.0	2364.7	2341.0	2302.7	2220.0	2113.7	2060.6	2051.7
35°	2081.3	2199.3	2287.9	2349.9	2364.7	2314.5	2290.9	2178.7	2034.0	2007.5	1915.9
37.5°	2042.9	2113.7	2223.0	2323.3	2344.0	2317.4	2237.7	2122.6	1977.9	1948.4	1868.7
40°	1995.6	2087.2	2172.8	2255.4	2317.4	2252.5	2161.0	2048.8	1983.8	1895.3	1871.7
42.5°	1960.2	2063.5	2134.4	2225.9	2296.8	2211.2	2104.9	2028.1	1936.6	1877.6	1809.7
44°	1948.4	2042.9	2090.1	2202.3	2261.3	2196.4	2107.8	2028.1	1921.8	1868.7	1809.7
45°	1907.1	2037.0	2087.2	2187.5	2237.7	2184.6	2072.4	1992.7	1915.9	1851.0	1789.0
47.5°	1865.8	1954.3	2039.9	2119.6	2155.1	2137.4	2042.9	1945.5	1853.9	1815.6	1756.5
50°	1853.9	1942.5	2022.2	2096.0	2137.4	2101.9	2016.3	1921.8	1815.6	1753.6	1703.4
52.5°	1794.9	1904.1	1992.7	2016.3	2069.5	2048.8	1983.8	1880.5	1780.1	1727.0	1685.7
55°	1709.3	1824.4	1945.5	1975.0	2051.7	2019.3	1921.8	1824.4	1738.8	1659.1	1606.0
57.5°	1676.8	1789.0	1907.1	1945.5	1992.7	1939.6	1915.9	1812.6	1676.8	1635.5	1552.8
60°	1594.2	1735.9	1833.3	1921.8	1924.8	1910.0	1868.7	1750.6	1638.4	1561.7	1502.6
62.5°	1529.2	1662.1	1738.8	1821.5	1871.7	1830.3	1789.0	1679.8	1558.7	1473.1	1405.2
65°	1434.7	1555.8	1620.7	1670.9	1727.0	1721.1	1650.2	1570.5	1443.6	1375.7	1310.8
67.5°	1290.1	1396.4	1484.9	1532.2	1567.6	1558.7	1505.6	1449.5	1319.6	1251.7	1204.5
70°	1115.9	1225.1	1281.2	1307.8	1343.2	1360.9	1319.6	1293.0	1177.9	1089.3	1045.1
72.5°	897.5	968.3	1051.0	1074.6	1089.3	1101.1	1101.1	1077.5	959.4	924.0	847.3
75°	661.3	717.4	779.4	779.4	805.9	808.9	814.8	800.0	711.5	664.2	646.5
77.5°	448.7	490.1	540.2	560.9	578.6	575.7	572.7	531.4	484.2	463.5	445.8
80°	292.3	333.6	357.2	383.8	401.5	398.5	404.4	374.9	354.3	318.8	324.7
82.5°	174.2	206.6	230.3	262.7	262.7	271.6	271.6	262.7	242.1	224.4	224.4
85°	82.7	109.2	124.0	144.7	156.5	159.4	141.7	121.0	100.4	91.5	100.4
87.5°	14.8	20.7	29.5	26.6	32.5	29.5	29.5	29.5	29.5	23.6	26.6
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: P532578

CATALOG NUMBER: GALN-SA8A-722-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8	9018.8
2.5°	8015.1	8162.7	8266.0	8437.2	8732.4	8968.6	9210.7	9390.8	9411.4	9464.6
5°	6778.1	6857.8	7120.6	7463.0	7705.1	8103.6	8360.5	8826.9	9001.1	9187.1
7.5°	5293.2	5423.1	5774.4	6004.7	6536.0	7035.0	7551.6	8127.2	8357.5	8384.1
10°	4463.6	4652.6	4891.7	5260.7	5550.0	6105.0	6748.6	7389.2	7646.0	7690.3
12.5°	3920.4	4162.5	4481.4	4747.0	5024.5	5508.7	6125.7	6916.9	7250.5	7451.2
15°	3397.9	3648.8	4000.2	4369.2	4614.2	5192.8	5919.0	6810.6	7244.6	7421.7
17.5°	2860.6	3093.8	3383.2	3781.7	4274.7	4924.2	5886.6	7164.8	7640.1	7846.8
20°	2400.1	2530.0	2866.5	3276.9	3893.9	4649.6	5898.4	7687.4	8384.1	8475.6
22.5°	2220.0	2249.5	2382.4	2760.3	3436.3	4369.2	6108.0	8428.4	9219.5	9520.7
25°	2081.3	2075.4	2110.8	2364.7	3102.7	4259.9	6314.6	9110.3	10146.5	10474.2
27.5°	2004.5	1945.5	1948.4	2187.5	2866.5	4082.8	6580.3	9892.6	11197.5	11342.1
30°	1966.1	1954.3	1918.9	2016.3	2609.7	3817.1	6624.6	10663.1	11817.4	12027.0
32.5°	1942.5	1827.4	1783.1	1818.5	2367.6	3527.8	6789.9	11170.9	12585.0	12493.5
35°	1824.4	1721.1	1691.6	1727.0	2196.4	3365.4	6680.7	11613.7	13160.6	13314.2
37.5°	1780.1	1688.6	1629.6	1600.1	2037.0	3229.6	6624.6	12295.7	13718.6	14087.6
40°	1738.8	1641.4	1570.5	1541.0	1913.0	3049.6	6606.9	12821.2	14362.2	14583.6
42.5°	1691.6	1629.6	1549.9	1496.7	1762.4	2869.5	6403.2	12983.5	14560.0	14799.1
44°	1676.8	1582.3	1499.7	1482.0	1703.4	2778.0	6361.9	13131.1	14731.2	15094.3
45°	1662.1	1573.5	1479.0	1455.4	1682.7	2727.8	6305.8	13166.6	15014.6	15082.5
47.5°	1620.7	1564.6	1473.1	1408.2	1638.4	2618.5	6137.5	12965.8	14725.3	14737.1
50°	1588.3	1523.3	1428.8	1301.9	1579.4	2527.0	6214.3	12892.0	14028.6	14055.1
52.5°	1552.8	1455.4	1402.3	1183.8	1482.0	2450.3	6376.6	13225.6	14108.3	14102.4
55°	1511.5	1405.2	1275.3	1083.4	1319.6	2352.9	6769.3	13883.9	14846.3	14946.7
57.5°	1446.5	1355.0	1169.0	994.9	1133.6	2166.9	6642.3	12623.4	13659.6	13677.3
60°	1360.9	1275.3	1059.8	927.0	929.9	1709.3	5939.7	9836.5	10778.3	11035.1
62.5°	1278.3	1231.0	968.3	829.6	791.2	1360.9	5021.6	8174.5	9252.0	9464.6
65°	1180.9	1065.7	888.6	755.7	679.0	953.5	3557.3	6108.0	7218.0	7504.3
67.5°	1056.9	932.9	782.3	664.2	581.6	637.7	1836.2	3471.7	4596.5	4764.8
70°	924.0	808.9	658.3	560.9	469.4	439.9	808.9	1656.2	2512.3	2686.4
72.5°	758.7	652.4	525.5	442.8	351.3	304.1	271.6	442.8	891.5	1036.2
75°	549.1	475.3	395.6	315.9	248.0	194.8	159.4	132.8	147.6	159.4
77.5°	404.4	345.4	292.3	224.4	174.2	138.8	109.2	82.7	79.7	76.8
80°	315.9	280.5	233.2	180.1	135.8	103.3	76.8	56.1	50.2	50.2
82.5°	248.0	230.3	191.9	147.6	112.2	82.7	56.1	38.4	32.5	32.5
85°	94.5	94.5	138.8	121.0	85.6	59.0	38.4	20.7	17.7	17.7
87.5°	23.6	23.6	23.6	23.6	20.7	17.7	17.7	8.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)