

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: P451568

Luminaire Tested: **GALN-SA2C-722-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-722-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8959 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

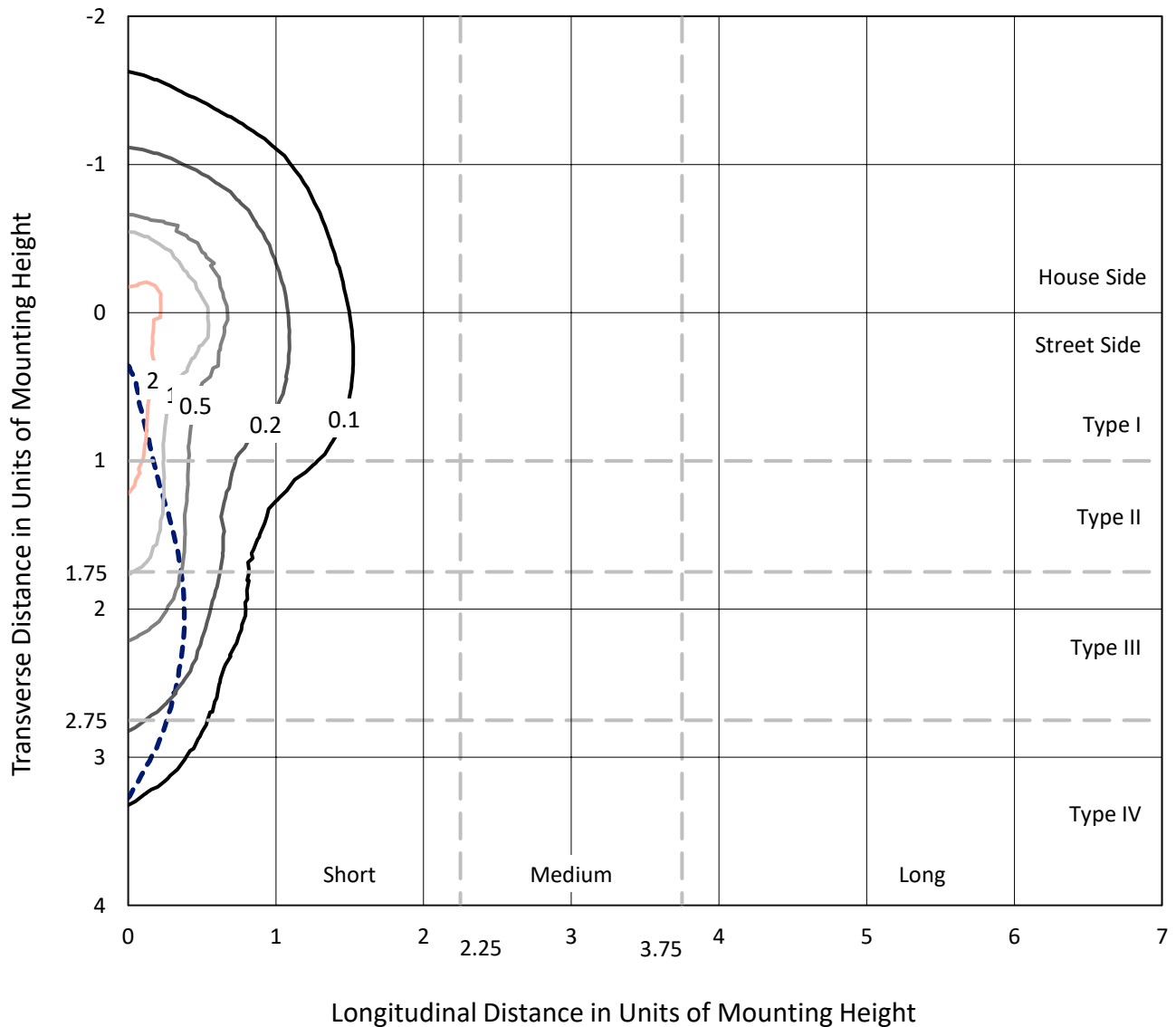
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

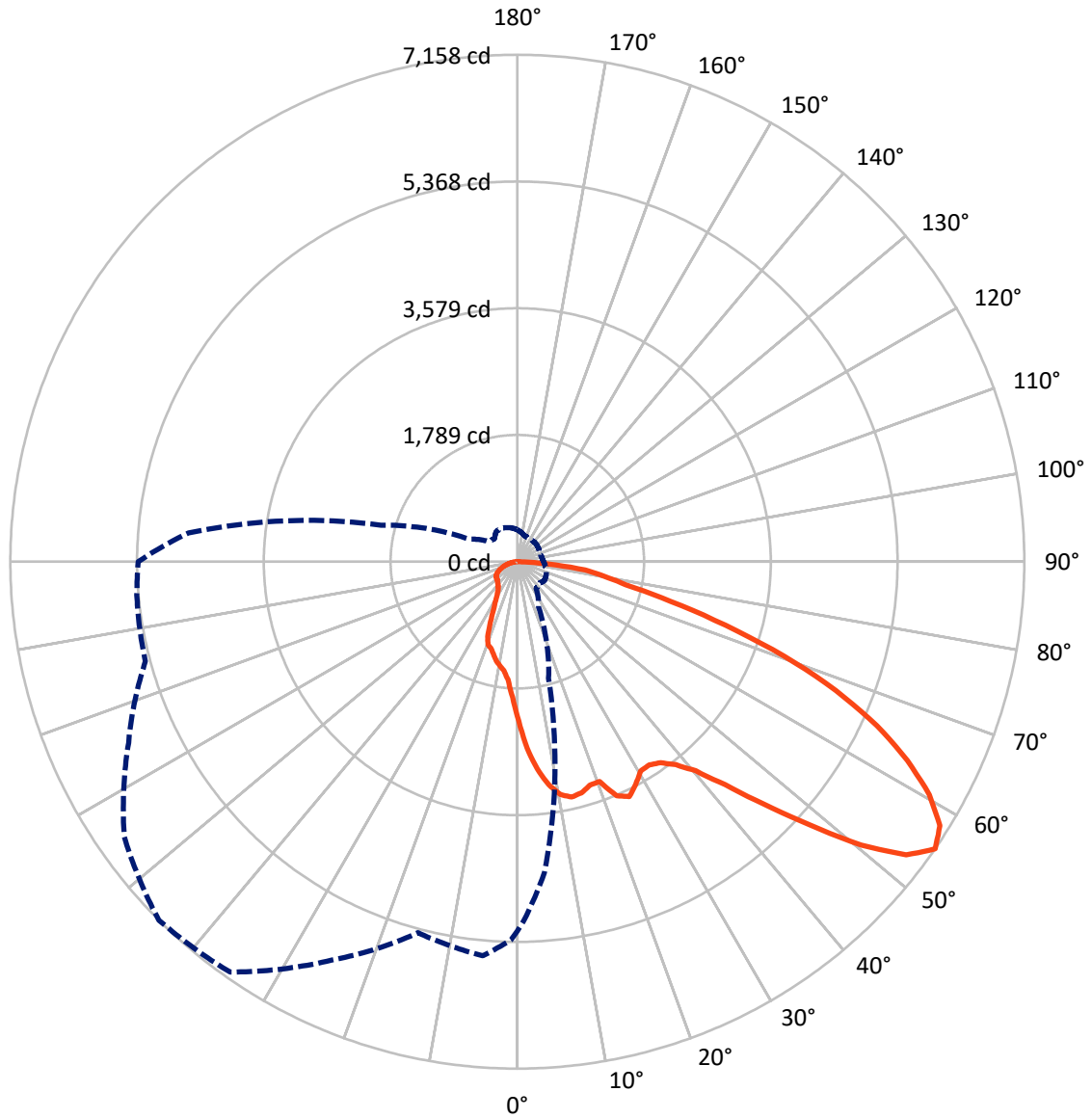
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1959.7	0.0	1959.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	6999.3	0.0	6999.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	8959.0	0.0	8959.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.6	2.1
10°-20°	505.5	5.6
20°-30°	873.4	9.7
30°-40°	1015.0	11.3
40°-50°	1416.1	15.8
50°-60°	1921.5	21.4
60°-70°	1828.1	20.4
70°-80°	987.6	11.0
80°-90°	221.3	2.5
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°	8959.0	100.0
0°-180°	8959.0	100.0

**Coefficient of Utilization**



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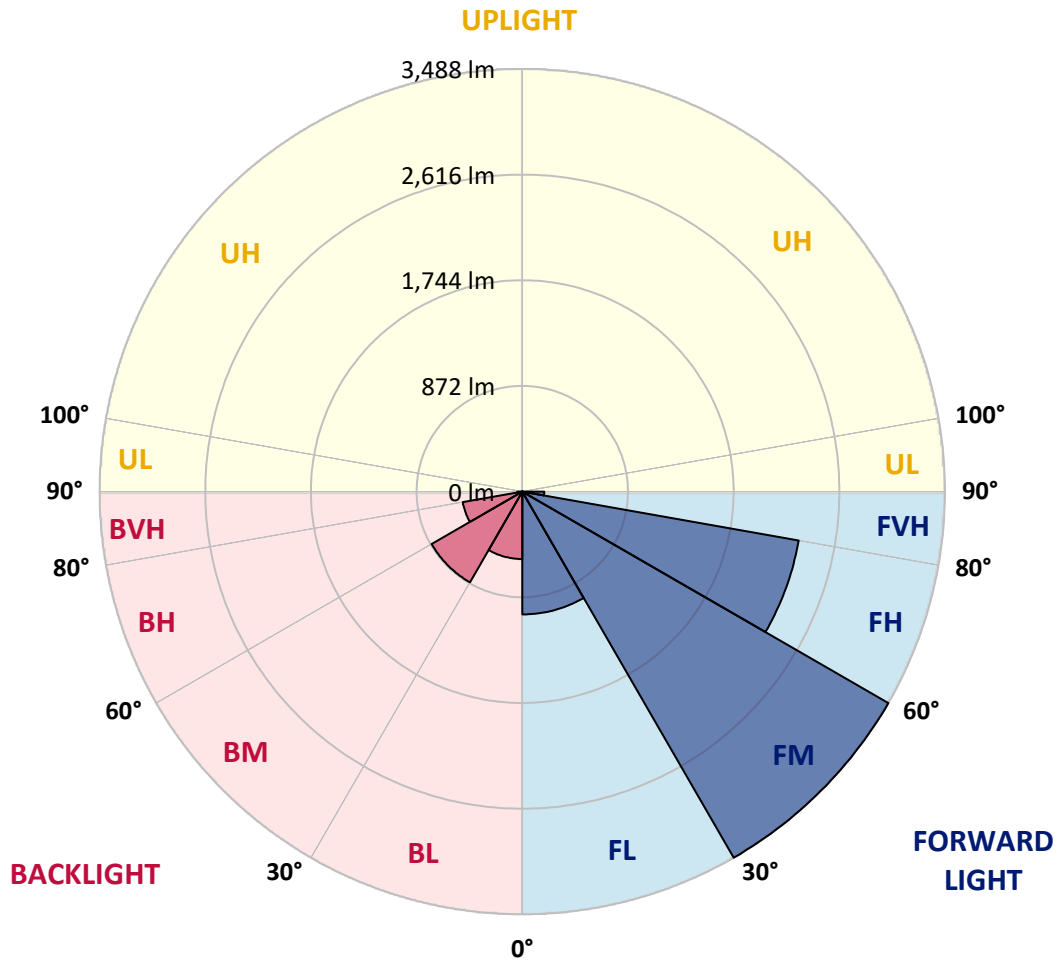
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1013.3	11.3			
FM	(30°-60°)	3488.4	38.9			
FH	(60°-80°)	2316.6	25.9			G2/5000
FVH	(80°-90°)	180.9	2.0			G2/225
BL	(0°-30°)	556.2	6.2	B2/1000		
BM	(30°-60°)	864.1	9.6	B1/1000		
BH	(60°-80°)	499.0	5.6	B1/500		G1/500
BVH	(80°-90°)	40.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4
2.5°	2497.8	2488.3	2461.7	2392.0	2321.6	2250.1	2195.2	2126.6	2055.1	2016.7	1967.6
5°	2532.1	2521.4	2458.8	2301.6	2159.1	2009.6	1890.2	1785.6	1743.0	1680.4	1630.1
7.5°	2451.7	2447.0	2353.0	2127.2	1932.1	1736.5	1601.2	1517.2	1441.0	1412.6	1418.5
10°	2378.4	2359.5	2241.9	1946.9	1719.4	1560.4	1463.4	1381.3	1327.5	1313.3	1316.3
12.5°	2317.5	2292.1	2153.2	1825.8	1626.6	1499.5	1376.0	1290.3	1241.2	1254.8	1300.9
15°	2305.1	2270.8	2116.0	1784.4	1575.7	1412.0	1276.7	1178.0	1141.3	1170.9	1244.8
17.5°	2385.5	2342.3	2179.8	1798.0	1527.3	1322.8	1156.7	1043.8	1013.1	1060.3	1156.7
20°	2643.8	2579.9	2379.0	1876.6	1522.5	1278.4	1086.9	973.5	986.5	1076.3	1176.8
22.5°	3121.3	3025.6	2727.7	1991.3	1547.4	1267.2	1072.8	1013.7	1085.2	1161.4	1227.6
25°	3215.9	3140.8	2790.4	2017.3	1542.1	1259.5	1112.9	1142.5	1222.3	1260.1	1237.1
27.5°	3269.1	3183.4	2786.2	1888.4	1378.9	1142.5	1063.9	1112.9	1133.0	1096.4	1033.7
30°	3393.2	3304.0	2856.6	1753.1	1135.4	847.6	743.0	722.9	736.4	743.5	721.1
32.5°	3564.0	3476.0	2988.9	1664.4	981.7	701.0	598.1	569.8	563.3	555.6	546.7
35°	3785.1	3649.7	3119.0	1607.7	918.5	648.4	553.8	531.9	523.1	512.4	503.0
37.5°	4009.7	3867.8	3283.3	1548.0	876.5	611.7	524.3	514.2	498.8	487.6	474.0
40°	4248.5	4089.5	3432.8	1496.0	835.7	588.1	503.0	501.8	481.7	468.7	452.7
42.5°	4455.3	4291.6	3566.4	1464.0	804.4	563.3	490.0	493.5	472.8	453.3	432.6
45°	4619.7	4458.9	3689.9	1464.0	779.0	538.4	487.6	485.3	464.6	440.3	416.7
47.5°	4763.9	4597.8	3810.5	1501.3	763.0	517.8	474.6	478.8	457.5	426.7	403.7
50°	4875.6	4729.0	3973.0	1559.2	747.1	501.2	458.1	480.5	451.6	419.6	393.0
52.5°	5018.0	4886.8	4168.7	1638.4	733.5	482.9	443.3	480.5	451.0	420.2	391.3
55°	5215.4	5077.1	4404.5	1704.0	711.6	465.7	430.3	466.9	449.2	417.3	386.5
57.5°	5353.7	5250.3	4571.2	1747.7	680.3	443.9	418.5	453.9	441.5	406.1	372.4
58°	5360.2	5259.2	4595.4	1757.8	672.6	439.7	415.5	448.0	438.0	401.3	367.6
60°	5285.8	5198.9	4600.2	1743.6	628.9	419.1	400.1	423.8	419.1	373.5	342.2
62.5°	5015.1	4922.3	4409.2	1628.3	571.0	393.6	376.5	391.3	380.6	334.5	305.6
65°	4630.3	4459.5	4016.8	1447.5	529.6	366.5	344.6	345.8	334.5	301.4	276.0
67.5°	4117.9	3926.9	3400.9	1219.9	498.3	336.3	306.8	303.8	290.2	268.9	248.2
70°	3487.2	3356.6	2763.8	992.4	463.4	303.2	264.2	262.4	254.2	238.2	219.9
72.5°	2826.4	2660.3	2231.8	794.4	420.8	271.3	224.6	228.1	217.5	206.3	189.7
75°	2085.8	1977.1	1725.3	637.2	363.5	236.4	187.4	188.5	183.8	172.0	159.0
77.5°	1373.6	1341.1	1234.1	418.5	279.6	188.0	153.1	154.3	150.7	140.1	126.5
80°	924.4	902.5	836.3	269.5	186.8	135.9	118.2	119.4	118.8	107.6	89.2
82.5°	569.8	560.3	539.0	182.0	129.4	97.5	78.0	81.6	88.1	75.7	60.9
85°	268.9	269.5	325.7	99.3	76.2	62.7	42.6	45.5	45.5	45.5	34.3
87.5°	34.9	36.6	44.9	42.0	27.8	23.6	15.4	13.0	11.2	14.8	10.6
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°	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4
2.5°	1950.5	1938.6	1913.2	1907.3	1903.8	1913.8	1887.2	1894.3	1882.5	1915.6	1910.3
5°	1633.1	1634.3	1654.9	1668.5	1673.3	1668.5	1650.8	1620.1	1596.4	1587.0	1589.3
7.5°	1407.3	1428.0	1463.4	1503.0	1539.1	1549.7	1539.7	1481.2	1417.3	1377.1	1364.1
10°	1332.2	1360.0	1400.8	1432.1	1464.0	1489.4	1494.8	1449.3	1373.6	1278.4	1241.2
12.5°	1336.4	1374.2	1413.2	1423.3	1420.3	1430.3	1425.6	1417.9	1368.3	1247.1	1185.1
15°	1297.4	1342.3	1369.5	1364.1	1354.7	1345.8	1333.4	1313.9	1296.2	1211.1	1142.5
17.5°	1207.5	1253.6	1276.1	1277.9	1277.9	1275.5	1245.3	1238.3	1235.9	1194.5	1152.5
20°	1224.1	1249.5	1239.4	1222.9	1227.6	1243.6	1225.8	1222.3	1235.9	1254.2	1246.5
22.5°	1233.5	1224.7	1149.0	1075.7	1059.2	1108.8	1118.9	1158.5	1213.4	1279.6	1322.8
25°	1175.0	1103.5	968.1	885.4	838.7	884.8	945.1	1018.4	1100.5	1185.6	1235.9
27.5°	982.3	928.0	831.0	756.5	715.8	722.9	774.3	841.1	917.3	974.6	1011.3
30°	740.0	715.8	665.5	640.1	615.3	609.4	631.2	656.7	690.3	697.4	706.9
32.5°	544.9	541.4	544.4	536.1	531.4	530.8	524.3	530.2	533.7	537.9	529.6
35°	492.9	488.2	479.9	477.6	474.6	475.8	472.8	469.9	472.2	475.8	478.2
37.5°	466.3	459.2	447.4	443.3	443.3	445.1	440.3	439.2	443.3	454.5	460.4
40°	445.7	437.4	423.8	418.5	422.0	426.7	420.2	417.9	427.9	439.7	449.2
42.5°	426.1	419.6	406.6	400.7	403.7	412.6	403.1	401.3	414.3	427.3	438.6
45°	409.6	403.1	391.3	388.3	389.5	397.8	391.3	391.3	403.7	417.9	427.9
47.5°	396.6	388.3	380.6	378.3	379.5	384.2	383.0	383.0	394.8	409.6	419.6
50°	383.6	376.5	366.5	367.6	370.6	377.1	376.5	378.3	390.1	408.4	419.1
52.5°	377.7	367.0	355.8	357.0	365.9	373.5	371.2	373.0	386.5	420.8	436.2
55°	371.2	357.0	344.0	345.8	355.8	367.0	364.1	366.5	382.4	429.1	450.4
57.5°	358.8	342.2	328.0	329.2	344.0	355.8	351.1	354.0	373.0	420.2	442.7
58°	353.4	339.3	325.7	326.3	340.4	353.4	348.1	350.5	370.0	417.9	439.2
60°	331.0	322.7	310.9	311.5	325.1	336.3	333.4	335.7	354.6	400.7	416.7
62.5°	300.3	295.5	292.6	292.6	300.8	311.5	314.4	317.4	334.5	362.3	376.5
65°	267.2	267.2	267.7	267.7	273.1	286.7	288.4	296.1	312.1	325.7	336.3
67.5°	244.7	243.5	244.7	241.7	244.1	252.4	261.2	268.3	284.9	294.3	297.9
70°	215.7	215.1	215.7	211.6	214.6	221.6	227.6	239.4	256.5	263.6	265.4
72.5°	187.4	187.4	188.5	185.6	185.6	193.3	197.4	210.4	226.4	230.5	231.1
75°	157.8	159.6	159.6	155.4	156.6	161.4	166.7	177.3	192.1	195.0	195.0
77.5°	125.3	131.8	131.8	127.7	129.4	130.0	137.1	142.4	153.7	154.9	150.1
80°	91.0	97.5	102.8	99.3	102.3	98.7	102.8	106.4	117.6	112.3	104.6
82.5°	65.0	69.7	73.9	74.5	71.5	65.0	70.3	70.9	76.2	69.2	65.0
85°	36.1	40.2	45.5	43.1	38.4	34.3	36.1	37.2	36.6	34.9	32.5
87.5°	9.5	10.0	11.2	8.3	7.7	6.5	8.9	8.9	10.0	10.6	10.0
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°	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4
2.5°	1914.4	1940.4	1996.6	2039.1	2091.1	2154.4	2228.9	2303.9	2384.9	2410.3	2445.8
5°	1584.0	1649.0	1676.2	1753.6	1830.5	1945.7	2068.7	2211.1	2367.2	2442.2	2514.3
7.5°	1353.5	1388.4	1416.7	1473.5	1565.7	1705.8	1860.0	2037.9	2259.0	2368.3	2474.1
10°	1229.4	1232.9	1267.8	1338.1	1418.5	1542.1	1688.0	1887.2	2133.7	2266.7	2390.8
12.5°	1147.2	1131.9	1169.7	1243.0	1334.0	1448.1	1582.2	1772.0	2043.3	2179.8	2329.9
15°	1075.1	1050.9	1079.3	1154.3	1244.2	1378.3	1522.5	1723.5	2007.8	2166.8	2333.5
17.5°	1076.9	1010.1	1020.2	1083.4	1172.6	1309.2	1484.1	1721.7	2061.6	2244.8	2442.2
20°	1209.9	1102.9	1057.4	1069.2	1155.5	1304.5	1501.9	1804.5	2238.3	2505.5	2716.5
22.5°	1340.5	1276.1	1202.8	1178.6	1225.8	1381.9	1614.8	2000.1	2622.5	3025.0	3406.2
25°	1295.0	1350.0	1331.6	1297.4	1308.0	1437.4	1691.6	2160.9	2921.0	3374.3	3732.5
27.5°	1036.1	1136.0	1156.1	1155.5	1159.6	1266.0	1521.4	2052.7	2958.2	3441.1	3783.3
30°	728.2	737.0	747.7	768.4	787.3	882.4	1190.4	1802.1	2941.7	3471.2	3814.1
32.5°	525.4	537.3	552.0	580.4	625.3	746.5	1041.4	1722.3	3029.1	3596.0	3903.9
35°	480.5	494.1	508.3	540.8	583.4	695.7	982.3	1689.2	3172.8	3798.1	4065.3
37.5°	466.3	481.7	494.1	517.8	552.0	659.0	928.5	1666.8	3319.9	4012.1	4281.6
40°	456.3	474.0	484.1	503.0	526.6	625.3	880.7	1649.0	3462.4	4207.7	4455.3
42.5°	447.4	465.7	478.8	492.3	511.9	595.2	838.1	1631.3	3585.9	4397.4	4628.5
45°	436.8	459.8	476.4	487.0	504.2	569.8	805.6	1617.1	3726.6	4565.9	4803.5
47.5°	427.9	453.3	474.0	486.4	492.9	552.0	779.6	1636.6	3895.6	4742.0	4966.0
50°	428.5	452.7	478.8	498.3	481.1	537.3	763.6	1714.0	4115.5	4951.2	5094.3
52.5°	447.4	477.0	497.7	502.4	464.6	519.5	755.4	1849.4	4375.6	5136.2	5223.7
55°	468.7	499.4	521.9	518.9	455.7	497.1	753.6	1993.6	4660.4	5352.0	5392.2
57.5°	461.0	505.9	540.2	524.9	456.3	475.2	745.9	2110.1	4898.6	5513.3	5558.8
58°	458.7	503.6	542.6	523.7	454.5	468.7	744.1	2120.1	4931.7	5524.6	5582.5
60°	435.6	482.9	540.8	514.8	444.5	451.0	724.6	2152.6	4922.9	5466.6	5596.7
62.5°	393.6	432.6	500.0	471.7	413.7	427.3	680.9	2112.4	4682.9	5187.7	5389.2
65°	346.4	375.3	420.2	414.9	370.0	403.1	621.2	1953.4	4202.4	4734.9	4947.1
67.5°	310.9	334.5	362.9	355.2	332.8	370.6	556.8	1684.5	3663.3	4191.1	4458.3
70°	274.8	293.2	307.3	302.0	294.9	338.7	499.4	1367.1	3146.8	3674.6	3933.4
72.5°	238.2	255.3	267.2	259.5	255.3	305.0	452.7	1060.9	2485.4	3031.5	3364.3
75°	199.2	216.3	224.6	215.7	213.4	268.9	383.6	792.6	1864.8	2337.0	2624.3
77.5°	154.3	172.6	183.2	180.3	181.5	221.1	309.7	542.6	1333.4	1592.9	1895.5
80°	108.2	128.3	135.4	132.4	140.7	168.4	218.7	344.6	919.7	1033.7	1247.1
82.5°	66.8	85.7	86.9	89.8	95.8	124.7	164.9	209.8	577.5	597.0	751.8
85°	33.7	40.8	43.7	48.5	53.8	76.2	94.0	130.0	371.8	281.3	420.2
87.5°	11.2	11.8	14.2	17.7	21.9	31.3	40.2	53.2	92.2	50.8	130.0
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: P451568

CATALOG NUMBER: GALN-SA2C-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4	2248.4
2.5°	2517.3	2567.5	2604.2	2637.9	2605.4	2602.4	2570.5	2519.1	2497.8	2497.8
5°	2665.6	2783.3	2878.4	2939.3	2913.3	2850.6	2747.2	2615.4	2544.5	2532.1
7.5°	2706.4	2938.7	3115.4	3178.1	3134.3	2996.0	2798.0	2575.8	2474.1	2451.7
10°	2681.6	2983.6	3243.1	3342.4	3281.5	3072.3	2802.2	2529.7	2404.4	2378.4
12.5°	2655.6	2989.5	3266.7	3410.4	3370.8	3133.8	2832.3	2499.6	2354.7	2317.5
15°	2674.5	2991.9	3237.8	3386.1	3411.5	3207.6	2882.0	2521.4	2344.7	2305.1
17.5°	2793.9	3036.8	3196.4	3316.4	3405.6	3308.1	3023.2	2626.0	2434.5	2385.5
20°	3043.3	3144.4	3220.0	3312.8	3456.5	3513.2	3312.3	2913.3	2686.9	2643.8
22.5°	3765.6	3747.3	3592.4	3590.6	3798.7	4026.2	4012.6	3497.3	3156.8	3121.3
25°	4036.3	3951.2	3727.2	3672.8	3764.4	4115.5	4064.7	3616.6	3302.2	3215.9
27.5°	3930.5	3719.5	3572.3	3559.9	3529.8	3861.3	3983.7	3665.1	3353.0	3269.1
30°	3924.0	3613.7	3403.3	3428.1	3457.1	3773.9	4028.6	3817.0	3483.1	3393.2
32.5°	3939.9	3628.5	3415.7	3420.4	3506.7	3786.9	4078.3	3982.5	3653.9	3564.0
35°	4004.4	3712.4	3494.9	3483.7	3618.4	3872.0	4162.8	4242.6	3887.3	3785.1
37.5°	4108.4	3879.7	3639.7	3636.7	3832.4	4025.7	4268.0	4505.0	4119.6	4009.7
40°	4261.5	4075.3	3897.4	3881.4	4123.2	4275.7	4404.5	4784.6	4389.7	4248.5
42.5°	4446.5	4309.9	4237.2	4300.5	4532.8	4556.4	4617.3	5042.8	4619.7	4455.3
45°	4617.9	4611.4	4712.5	4880.3	5015.7	4873.8	4839.5	5216.0	4798.2	4619.7
47.5°	4821.8	4997.9	5302.9	5548.8	5690.6	5243.2	5029.3	5328.9	4928.2	4763.9
50°	5028.7	5460.7	5947.7	6290.6	6320.7	5644.5	5159.9	5435.3	5046.4	4875.6
52.5°	5246.2	5830.1	6478.5	6876.9	6818.4	5993.9	5286.4	5507.4	5168.2	5018.0
55°	5435.3	6056.5	6775.2	7157.6	7071.9	6206.6	5422.9	5585.4	5341.9	5215.4
57.5°	5541.1	6075.4	6701.3	7035.3	6942.5	6165.3	5485.5	5643.4	5453.0	5353.7
58°	5556.5	6050.0	6635.7	6964.4	6869.8	6130.4	5485.0	5641.0	5460.1	5360.2
60°	5542.9	5885.1	6391.6	6684.2	6584.9	5911.7	5462.5	5596.7	5370.3	5285.8
62.5°	5417.0	5599.0	5970.2	6183.0	6154.6	5570.1	5370.3	5429.4	5096.6	5015.1
65°	5251.5	5208.9	5430.6	5581.3	5602.6	5314.1	5278.7	5067.7	4745.6	4630.3
67.5°	5050.5	4766.8	4766.2	4851.9	4887.4	4920.5	5087.8	4674.6	4239.6	4117.9
70°	4709.5	4085.3	3897.4	3998.5	3968.9	4248.5	4746.7	4122.6	3629.6	3487.2
72.5°	4084.2	3241.9	2941.1	3071.1	2996.6	3331.8	4153.3	3392.6	3001.4	2826.4
75°	3310.5	2425.1	2114.8	2234.2	2188.1	2527.3	3455.9	2464.1	2152.6	2085.8
77.5°	2570.5	1757.2	1576.9	1560.4	1594.7	1880.7	2535.0	1663.8	1419.1	1373.6
80°	1651.4	1257.8	1268.4	1247.1	1264.8	1185.6	1539.1	1061.5	961.0	924.4
82.5°	1086.9	876.5	1045.0	964.6	916.1	797.3	1009.5	695.1	589.9	569.8
85°	740.6	645.4	587.5	449.2	529.0	614.1	757.1	374.1	296.7	268.9
87.5°	334.5	224.6	164.9	101.7	160.8	185.6	367.6	43.7	33.7	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)