

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P529408

Luminaire Tested: **GALN-SA4C-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

Report Generated By 670246001

**Test Information**

Test Method: LM-79-08  
Report Number: P529408  
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-SA4C-740-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1050mA 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: 20713 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

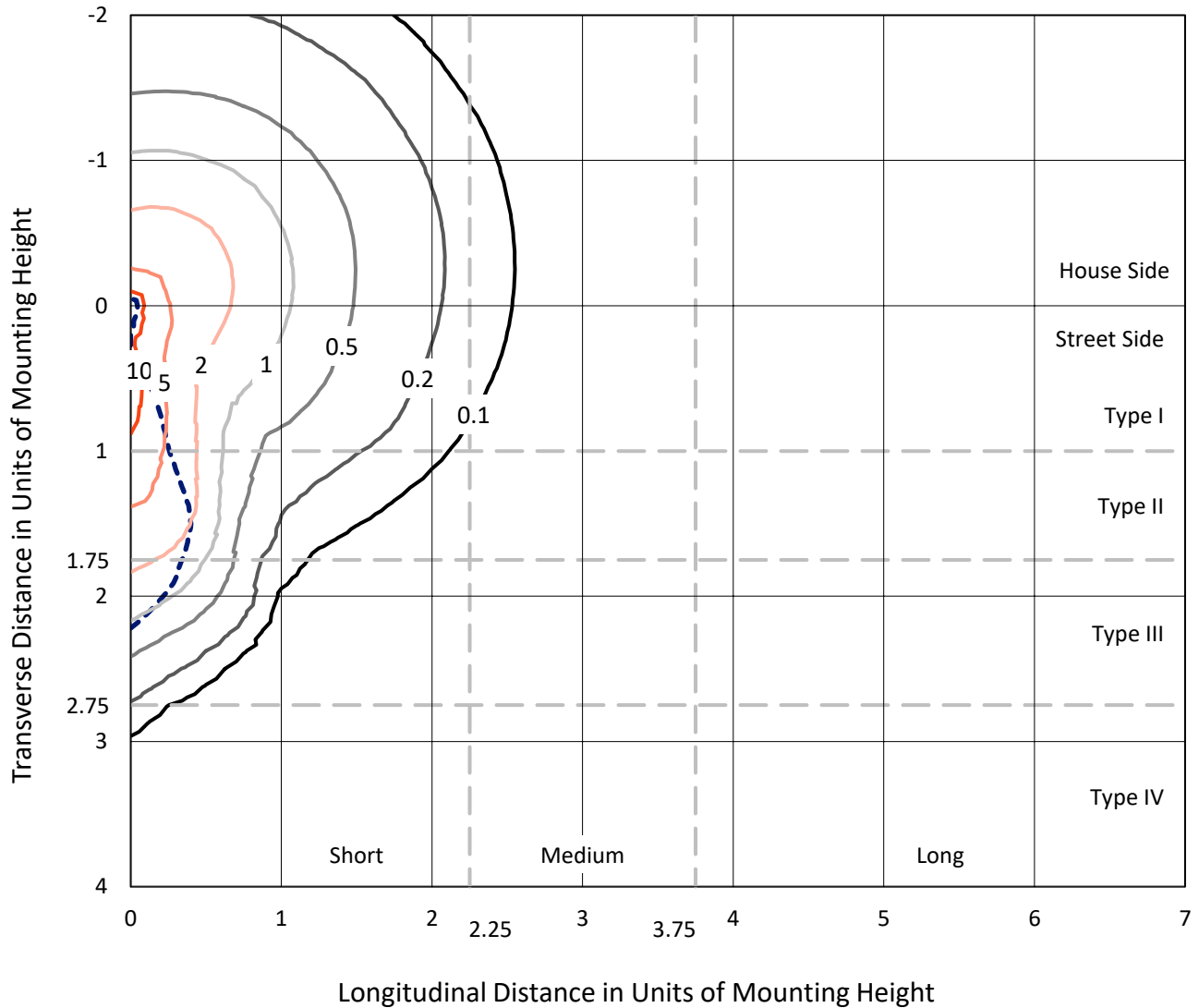
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

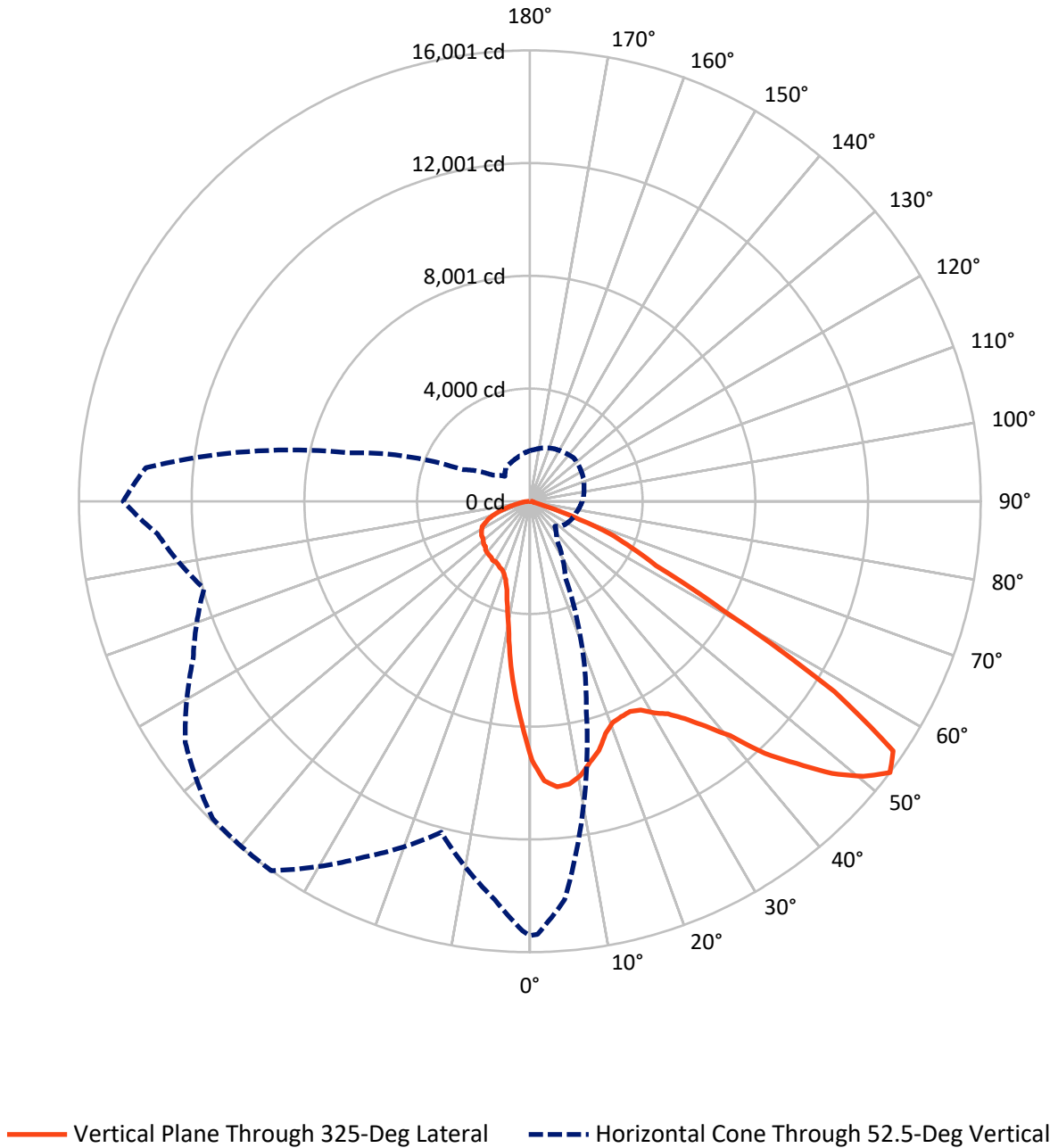
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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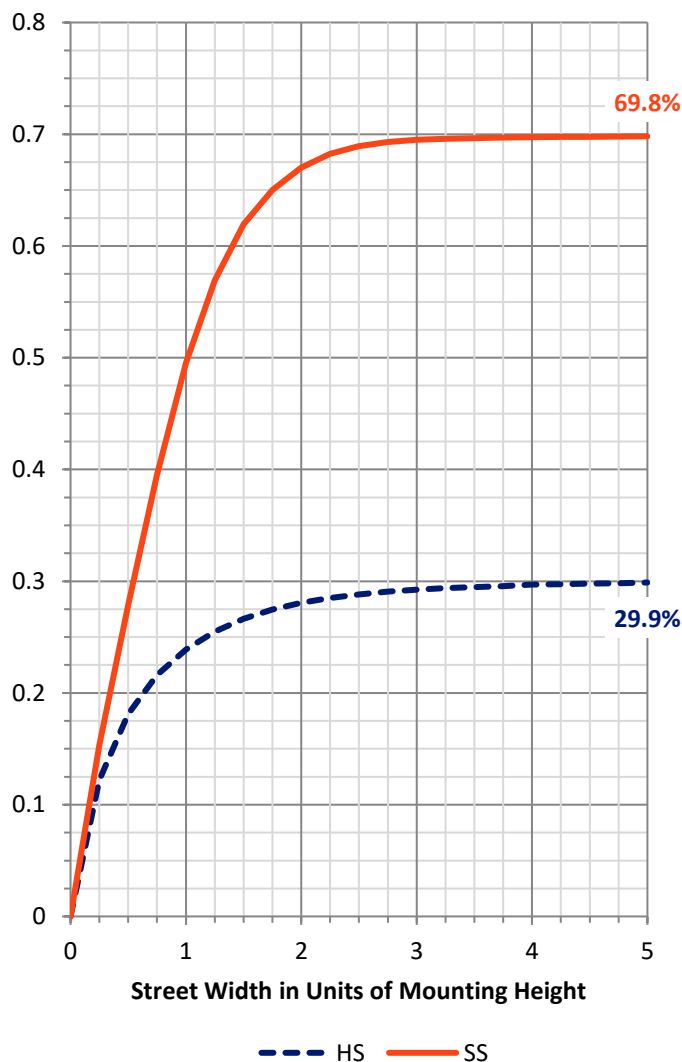
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6244.1	0.0	6244.1
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	14468.9	0.0	14468.9
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	20713.0	0.0	20713.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	701.3	3.4
10°-20°	1520.3	7.3
20°-30°	2297.1	11.1
30°-40°	3319.4	16.0
40°-50°	4417.6	21.3
50°-60°	4941.1	23.9
60°-70°	2784.8	13.4
70°-80°	620.8	3.0
80°-90°	110.5	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°	20713.0	100.0
0°-180°	20713.0	100.0

**Coefficient of Utilization**



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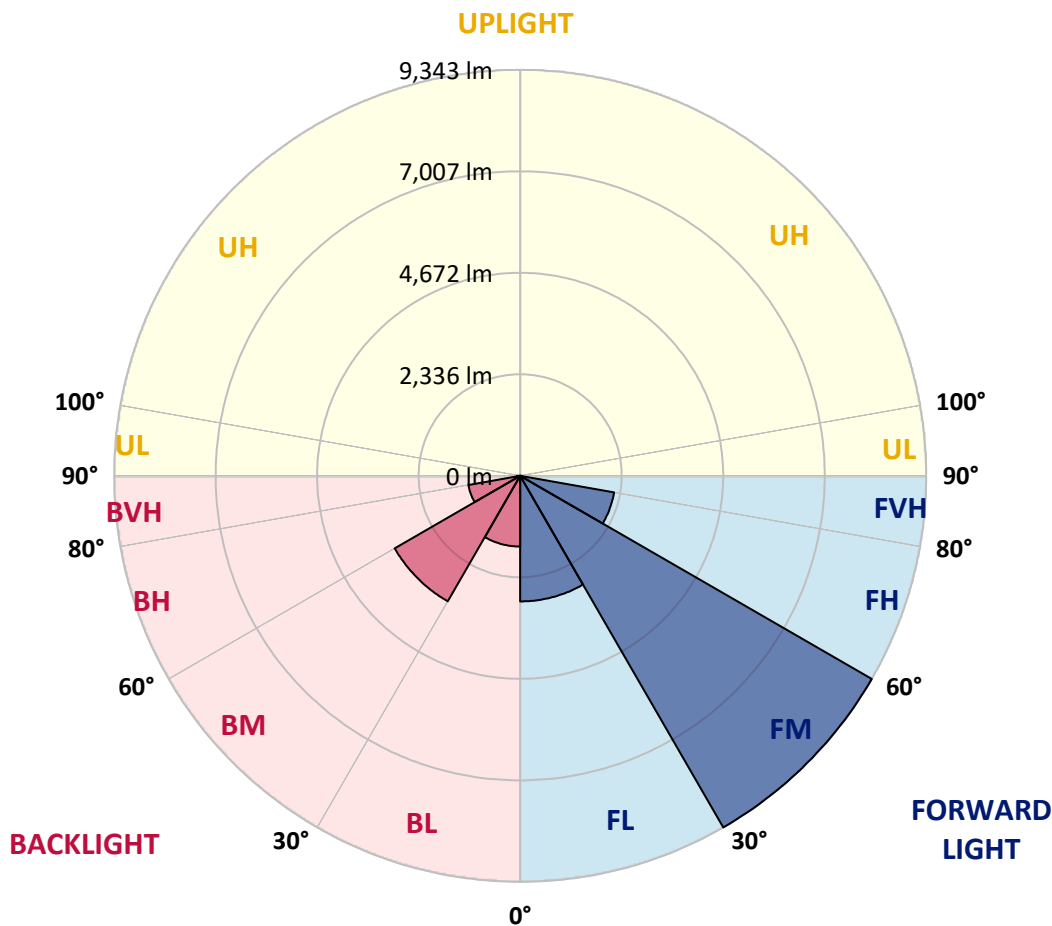
CATALOG NUMBER: GALN-SA4C-740-U-SLR-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2890.4	14.0			
FM (30°-60°)	9343.1	45.1			
FH (60°-80°)	2195.3	10.6			G2/5000
FVH (80°-90°)	40.0	0.2			G1/100
BL (0°-30°)	1628.3	7.9	B3/2500		
BM (30°-60°)	3335.0	16.1	B3/5000		
BH (60°-80°)	1210.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	70.5	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6
2.5°	9345.7	9495.8	9333.7	9045.5	8841.3	8655.2	8460.0	8421.0	8165.8	8120.8	7934.7
5°	8814.3	8781.3	8583.1	8204.9	7787.6	7409.3	7130.1	6859.9	6676.8	6463.6	6448.6
7.5°	8168.8	7976.7	7862.6	7289.2	6772.8	6178.4	5923.2	5511.9	5382.8	5190.7	5091.6
10°	7592.4	7451.3	7184.1	6610.7	5890.2	5496.9	5223.7	5001.6	4851.5	4653.3	4404.1
12.5°	7307.2	7250.2	6950.0	6061.3	5526.9	5106.6	4914.5	4698.4	4443.2	4124.9	4001.9
15°	7358.2	7166.1	6937.9	5956.2	5217.7	4812.4	4506.2	4236.0	3908.8	3605.6	3428.4
17.5°	7739.5	7592.4	7136.1	6022.3	5100.6	4515.2	3959.8	3560.5	3266.3	2993.1	2870.0
20°	8490.1	8276.9	7763.5	6106.4	4848.5	4100.9	3464.5	2972.1	2656.9	2512.8	2470.8
22.5°	9321.6	9195.6	8376.0	6295.5	4647.3	3716.7	2939.1	2446.7	2329.7	2290.6	2368.7
25°	10333.4	10006.1	9327.7	6604.7	4491.2	3389.4	2494.8	2221.6	2161.5	2200.6	2290.6
27.5°	11101.9	11014.9	9994.1	6895.9	4278.1	2996.1	2245.6	2065.5	2083.5	2122.5	2206.6
30°	12014.6	11573.3	10639.6	7097.1	4085.9	2725.9	2071.5	2023.4	2041.5	2107.5	2149.5
32.5°	12564.0	12398.8	11044.9	7400.3	3863.8	2491.8	1936.4	1891.3	1918.4	2017.4	2116.5
35°	13263.5	12936.2	11546.2	7478.3	3707.6	2398.7	1840.3	1807.3	1870.3	1939.4	2050.5
37.5°	14080.0	13854.9	12239.7	7424.3	3623.6	2302.6	1759.3	1744.2	1789.3	1885.3	2014.4
40°	14563.4	14494.3	12603.0	7457.3	3491.5	2218.6	1666.2	1684.2	1777.3	1852.3	1978.4
42.5°	15028.7	14578.4	13140.4	7445.3	3407.4	2104.5	1675.2	1654.2	1726.2	1813.3	1933.4
45°	15130.8	14683.5	13266.5	7361.3	3305.4	1993.4	1606.1	1615.2	1702.2	1810.3	1888.3
47.5°	15064.7	14734.5	13500.6	7337.2	3209.3	1915.4	1504.1	1612.1	1663.2	1750.2	1861.3
50°	15019.7	15001.7	13698.8	7451.3	3080.2	1792.3	1381.0	1573.1	1624.2	1711.2	1831.3
52.5°	15416.0	15377.0	14194.1	7751.5	2978.1	1660.2	1254.9	1474.1	1597.1	1681.2	1798.3
55°	15656.2	15485.0	15043.7	8120.8	2807.0	1486.1	1167.8	1351.0	1531.1	1606.1	1726.2
57.5°	14083.0	13966.0	13608.7	7580.4	2518.8	1257.9	1059.8	1224.9	1441.0	1558.1	1681.2
60°	11717.4	11534.2	10618.6	6442.6	1858.3	978.7	993.7	1125.8	1417.0	1462.0	1606.1
62.5°	11047.9	10594.6	9348.7	5184.7	1426.0	840.6	891.6	1035.7	1290.9	1366.0	1510.1
65°	8766.3	8430.0	6688.8	3743.7	954.7	729.5	813.6	933.7	1113.8	1260.9	1393.0
67.5°	5487.9	5166.7	3569.5	1771.3	666.5	624.4	726.5	852.6	999.7	1131.8	1278.9
70°	2867.0	2515.8	1648.2	639.5	459.3	510.4	606.4	726.5	870.6	978.7	1092.8
72.5°	1068.8	867.6	537.4	276.2	318.2	390.3	492.4	579.4	681.5	813.6	876.6
75°	165.1	141.1	138.1	168.1	216.2	282.2	351.3	438.3	528.4	612.4	654.5
77.5°	78.1	75.1	84.1	111.1	144.1	201.1	255.2	339.2	411.3	465.3	489.3
80°	51.0	48.0	54.0	75.1	108.1	150.1	204.1	261.2	327.2	372.3	366.3
82.5°	30.0	33.0	33.0	51.0	75.1	108.1	147.1	198.1	243.2	282.2	258.2
85°	18.0	15.0	15.0	30.0	51.0	87.1	123.1	84.1	87.1	87.1	99.1
87.5°	6.0	6.0	6.0	3.0	6.0	6.0	9.0	15.0	18.0	21.0	27.0
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°	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6
2.5°	7928.7	8021.7	7988.7	7871.6	7961.7	7976.7	7916.6	8123.8	8162.8	8099.8	8117.8
5°	6427.6	6451.6	6505.6	6619.7	6700.8	6796.8	6796.8	6802.9	6721.8	6925.9	6865.9
7.5°	5007.6	5022.6	5085.6	5328.8	5397.9	5581.0	5659.0	5605.0	5442.9	5373.8	5430.9
10°	4323.1	4236.0	4215.0	4245.0	4401.1	4479.2	4545.2	4527.2	4500.2	4446.2	4386.1
12.5°	3866.8	3803.7	3752.7	3680.6	3689.6	3764.7	3815.7	3773.7	3785.7	3797.7	3815.7
15°	3371.4	3326.4	3299.4	3191.3	3179.3	3230.3	3248.3	3272.3	3317.4	3320.4	3299.4
17.5°	2846.0	2807.0	2867.0	2927.1	2885.1	2888.1	2921.1	2942.1	2930.1	2876.1	2849.0
20°	2485.8	2527.8	2587.8	2644.9	2689.9	2716.9	2728.9	2695.9	2656.9	2545.8	2542.8
22.5°	2380.7	2434.7	2485.8	2572.8	2614.9	2683.9	2620.9	2545.8	2491.8	2437.7	2374.7
25°	2302.6	2347.7	2449.7	2482.8	2563.8	2620.9	2575.8	2500.8	2407.7	2329.7	2281.6
27.5°	2245.6	2296.6	2362.7	2452.7	2515.8	2548.8	2503.8	2473.8	2377.7	2284.6	2215.6
30°	2209.6	2263.6	2383.7	2458.8	2512.8	2539.8	2461.8	2425.7	2356.7	2278.6	2218.6
32.5°	2185.6	2233.6	2335.7	2431.7	2467.8	2467.8	2479.8	2437.7	2341.7	2209.6	2158.5
35°	2107.5	2173.6	2257.6	2368.7	2434.7	2473.8	2413.7	2365.7	2302.6	2167.5	2074.5
37.5°	2062.5	2107.5	2215.6	2320.7	2377.7	2419.7	2395.7	2311.6	2227.6	2116.5	2041.5
40°	2014.4	2086.5	2182.6	2281.6	2344.7	2386.7	2368.7	2269.6	2167.5	2062.5	2011.4
42.5°	1981.4	2029.4	2128.5	2239.6	2314.7	2395.7	2341.7	2218.6	2146.5	2002.4	1945.4
45°	1954.4	2032.4	2137.5	2182.6	2260.6	2344.7	2248.6	2173.6	2089.5	1984.4	1936.4
47.5°	1921.4	1993.4	2062.5	2182.6	2218.6	2257.6	2239.6	2119.5	2047.5	1933.4	1900.4
50°	1909.4	1936.4	2062.5	2128.5	2179.6	2218.6	2170.5	2080.5	2011.4	1894.4	1822.3
52.5°	1861.3	1912.4	1993.4	2080.5	2143.5	2191.6	2113.5	2056.5	1963.4	1840.3	1795.3
55°	1801.3	1831.3	1975.4	2065.5	2098.5	2131.5	2101.5	2008.4	1912.4	1786.3	1741.2
57.5°	1723.2	1792.3	1909.4	2035.5	2077.5	2095.5	2047.5	1972.4	1852.3	1741.2	1669.2
60°	1642.2	1714.2	1843.3	1945.4	1987.4	2053.5	1981.4	1936.4	1798.3	1675.2	1597.1
62.5°	1561.1	1642.2	1738.2	1867.3	1903.4	1930.4	1912.4	1849.3	1738.2	1600.1	1504.1
65°	1465.0	1525.1	1645.2	1711.2	1735.2	1798.3	1735.2	1711.2	1612.1	1480.1	1399.0
67.5°	1320.9	1372.0	1477.1	1540.1	1558.1	1585.1	1582.1	1555.1	1444.0	1354.0	1281.9
70°	1155.8	1200.9	1266.9	1342.0	1351.0	1384.0	1354.0	1348.0	1275.9	1152.8	1113.8
72.5°	927.7	969.7	1056.8	1089.8	1092.8	1104.8	1089.8	1068.8	1050.7	921.7	882.6
75°	711.5	735.5	777.6	807.6	807.6	822.6	813.6	792.6	744.5	663.5	624.4
77.5°	495.4	519.4	573.4	591.4	588.4	594.4	567.4	546.4	474.3	432.3	399.3
80°	360.3	375.3	402.3	414.3	417.3	426.3	393.3	375.3	333.2	285.2	270.2
82.5°	261.2	270.2	273.2	288.2	288.2	273.2	264.2	246.2	216.2	186.1	174.1
85°	108.1	111.1	114.1	132.1	135.1	162.1	150.1	141.1	123.1	105.1	96.1
87.5°	27.0	30.0	39.0	33.0	39.0	39.0	42.0	48.0	48.0	39.0	39.0
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°	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6
2.5°	8186.8	8210.9	8517.1	8556.1	8706.2	8859.3	9168.5	9390.7	9570.8	9687.9	9720.9
5°	6928.9	7082.1	7223.2	7451.3	7658.5	7952.7	8291.9	8712.2	9240.6	9510.8	9618.9
7.5°	5424.9	5605.0	5809.1	6031.3	6334.5	6862.9	7316.2	7802.6	8478.0	8757.2	9180.5
10°	4428.2	4629.3	4899.5	5070.6	5436.9	5941.2	6469.6	7031.0	7676.5	8078.8	8568.1
12.5°	3914.8	4079.9	4329.1	4689.3	4962.5	5289.8	5683.1	6391.6	7316.2	7697.5	8033.7
15°	3347.4	3530.5	3818.7	4218.0	4545.2	4935.5	5376.8	6148.4	7133.1	7721.5	8006.7
17.5°	2879.1	3011.1	3314.4	3659.6	4034.9	4461.2	5094.6	6136.4	7325.2	8078.8	8544.1
20°	2554.8	2572.8	2738.0	3032.2	3542.5	4097.9	4920.5	6076.3	7940.7	8694.2	9282.6
22.5°	2350.7	2332.7	2335.7	2584.8	2942.1	3740.7	4647.3	6280.5	8640.2	9672.9	10069.2
25°	2248.6	2200.6	2170.5	2224.6	2548.8	3317.4	4440.2	6550.7	9393.7	10480.5	10966.8
27.5°	2194.6	2110.5	2050.5	2059.5	2296.6	3104.2	4311.1	6667.8	10141.2	11606.3	11777.4
30°	2173.6	2068.5	1981.4	1951.4	2107.5	2807.0	4034.9	6868.9	10810.7	12224.7	12371.8
32.5°	2098.5	1969.4	1885.3	1858.3	1921.4	2545.8	3836.7	7013.0	11402.1	12897.2	12846.2
35°	2011.4	1903.4	1798.3	1747.2	1792.3	2377.7	3677.6	6944.0	12098.6	13419.6	13392.6
37.5°	2002.4	1861.3	1774.3	1690.2	1687.2	2170.5	3461.5	7010.0	12542.9	14356.2	13987.0
40°	1924.4	1834.3	1720.2	1651.2	1612.1	2065.5	3251.3	6853.9	13194.4	14734.5	14371.3
42.5°	1927.4	1792.3	1693.2	1612.1	1573.1	1912.4	3107.2	6811.9	13422.6	15349.9	14551.4
45°	1879.3	1747.2	1663.2	1567.1	1546.1	1795.3	2969.1	6616.7	13824.9	15380.0	14326.2
47.5°	1831.3	1714.2	1624.2	1510.1	1462.0	1753.3	2861.0	6454.6	13614.7	15097.8	14014.0
50°	1798.3	1663.2	1579.1	1498.1	1363.0	1681.2	2719.9	6415.6	13320.5	14716.5	13434.6
52.5°	1741.2	1621.2	1534.1	1471.0	1254.9	1615.2	2665.9	6643.7	13680.8	14431.3	13266.5
55°	1687.2	1564.1	1453.0	1329.9	1164.8	1441.0	2515.8	6856.9	14206.1	15088.8	14029.0
57.5°	1630.2	1513.1	1393.0	1245.9	1077.8	1260.9	2359.7	6895.9	13221.4	13944.9	13317.5
60°	1555.1	1405.0	1314.9	1122.8	984.7	1044.7	1870.3	6079.3	10255.3	11645.3	11666.3
62.5°	1471.0	1308.9	1230.9	1005.7	888.6	900.6	1525.1	5109.6	8318.9	9639.9	10213.3
65°	1360.0	1203.9	1110.8	930.7	819.6	780.6	1116.8	3743.7	6319.5	7820.6	8472.0
67.5°	1215.9	1068.8	951.7	810.6	732.5	669.5	762.5	2107.5	3731.7	5250.7	5448.9
70°	1062.8	936.7	813.6	696.5	609.4	564.4	558.4	933.7	1783.3	2825.0	3215.3
72.5°	837.6	747.5	648.5	561.4	504.4	438.3	399.3	387.3	603.4	1149.8	1588.1
75°	600.4	525.4	468.3	411.3	369.3	333.2	303.2	276.2	252.2	288.2	396.3
77.5°	378.3	351.3	306.2	291.2	267.2	258.2	246.2	231.2	213.2	201.1	201.1
80°	255.2	237.2	222.2	219.2	210.1	207.1	210.1	195.1	177.1	162.1	168.1
82.5°	171.1	168.1	165.1	162.1	165.1	168.1	174.1	171.1	156.1	147.1	150.1
85°	102.1	108.1	114.1	120.1	132.1	117.1	96.1	81.1	72.1	66.0	63.0
87.5°	39.0	54.0	48.0	45.0	48.0	45.0	42.0	39.0	33.0	30.0	30.0
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: P529408

CATALOG NUMBER: GALN-SA4C-740-U-SLR-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6	9192.6
2.5°	9940.1	10000.1	10051.2	10039.2	9934.1	9793.0	9735.9	9444.7	9384.7	9345.7
5°	10075.2	10423.4	10498.5	10453.5	10180.3	9835.0	9498.8	9072.5	8823.3	8814.3
7.5°	9826.0	10255.3	10390.4	10492.5	10129.2	9528.8	8952.4	8312.9	8156.8	8168.8
10°	9192.6	9877.0	10210.3	10315.4	9898.1	9378.7	8580.1	7931.7	7598.4	7592.4
12.5°	8841.3	9378.7	9471.8	9618.9	9495.8	8970.4	8364.0	7637.4	7313.2	7307.2
15°	8529.1	8883.3	8910.4	9117.5	9183.6	8829.3	8421.0	7646.5	7385.3	7358.2
17.5°	8802.3	8556.1	8454.0	8481.0	8676.2	8805.3	8751.2	8156.8	7889.6	7739.5
20°	8985.4	8436.0	8126.8	8156.8	8388.0	8859.3	9243.6	8895.3	8472.0	8490.1
22.5°	9474.8	8454.0	7970.7	7937.7	8303.9	9141.5	9799.0	9829.0	9420.7	9321.6
25°	10207.3	8661.2	7922.7	7913.6	8264.9	9444.7	10447.5	10933.8	10516.5	10333.4
27.5°	10795.7	8985.4	8072.8	8102.8	8388.0	9690.9	10999.8	11645.3	11327.1	11101.9
30°	11312.1	9321.6	8282.9	8144.8	8718.2	9820.0	11237.0	12455.9	12200.7	12014.6
32.5°	11525.2	9799.0	8616.1	8388.0	8991.4	9976.1	11729.4	13242.4	13023.3	12564.0
35°	11885.5	10066.2	8796.3	8778.3	9468.8	10351.4	11960.5	13761.8	13671.8	13263.5
37.5°	12173.7	10336.4	9435.7	9237.6	10123.2	10981.8	12332.8	14479.3	14272.2	14080.0
40°	12395.8	10819.7	10033.2	10294.3	10927.8	11555.2	12675.0	14524.4	15121.8	14563.4
42.5°	12191.7	11252.0	11014.9	11639.3	12239.7	12209.7	12714.1	14872.6	15319.9	15028.7
45°	12140.7	11984.5	12567.0	13134.4	13272.5	12753.1	12434.9	14488.3	15259.9	15130.8
47.5°	12017.6	12705.1	13719.8	14644.4	14434.3	13116.4	12101.6	14419.3	15295.9	15064.7
50°	11975.5	12861.2	14572.4	15473.0	15346.9	13431.6	11945.5	13975.0	15040.7	15019.7
52.5°	11972.5	13182.4	14926.6	15923.4	16001.4	13929.9	12158.7	14200.1	15238.9	15416.0
55°	12107.6	13080.3	14881.6	15674.2	15644.2	13707.8	12182.7	14350.2	15482.0	15656.2
57.5°	11420.1	11717.4	12281.8	12909.2	12747.1	11354.1	10879.8	13266.5	14209.1	14083.0
60°	9862.0	8931.4	8294.9	8264.9	7949.7	7514.4	8904.4	11840.4	11840.4	11717.4
62.5°	8637.2	5863.2	5037.6	4803.4	5028.6	5529.9	8589.1	11516.2	11189.0	11047.9
65°	7553.4	4476.2	3641.6	3575.6	3965.8	4722.4	7766.5	9811.0	9234.6	8766.3
67.5°	4860.5	3278.3	2707.9	2590.8	3062.2	3467.5	5169.7	6034.3	5671.0	5487.9
70°	3134.2	2134.5	1507.1	1414.0	1597.1	2137.5	3302.4	3518.5	2990.1	2867.0
72.5°	1483.1	921.7	528.4	435.3	489.3	816.6	1305.9	1405.0	1167.8	1068.8
75°	471.3	339.2	216.2	186.1	177.1	210.1	300.2	231.2	168.1	165.1
77.5°	210.1	201.1	171.1	144.1	126.1	105.1	87.1	72.1	75.1	78.1
80°	174.1	159.1	141.1	126.1	105.1	81.1	63.0	48.0	48.0	51.0
82.5°	153.1	138.1	123.1	105.1	90.1	66.0	48.0	33.0	30.0	30.0
85°	66.0	78.1	84.1	90.1	72.1	54.0	33.0	21.0	18.0	18.0
87.5°	27.0	24.0	21.0	18.0	15.0	15.0	12.0	9.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)