

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: P451655

Luminaire Tested: **GALN-SA2C-740-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451655
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-740-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 12187 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

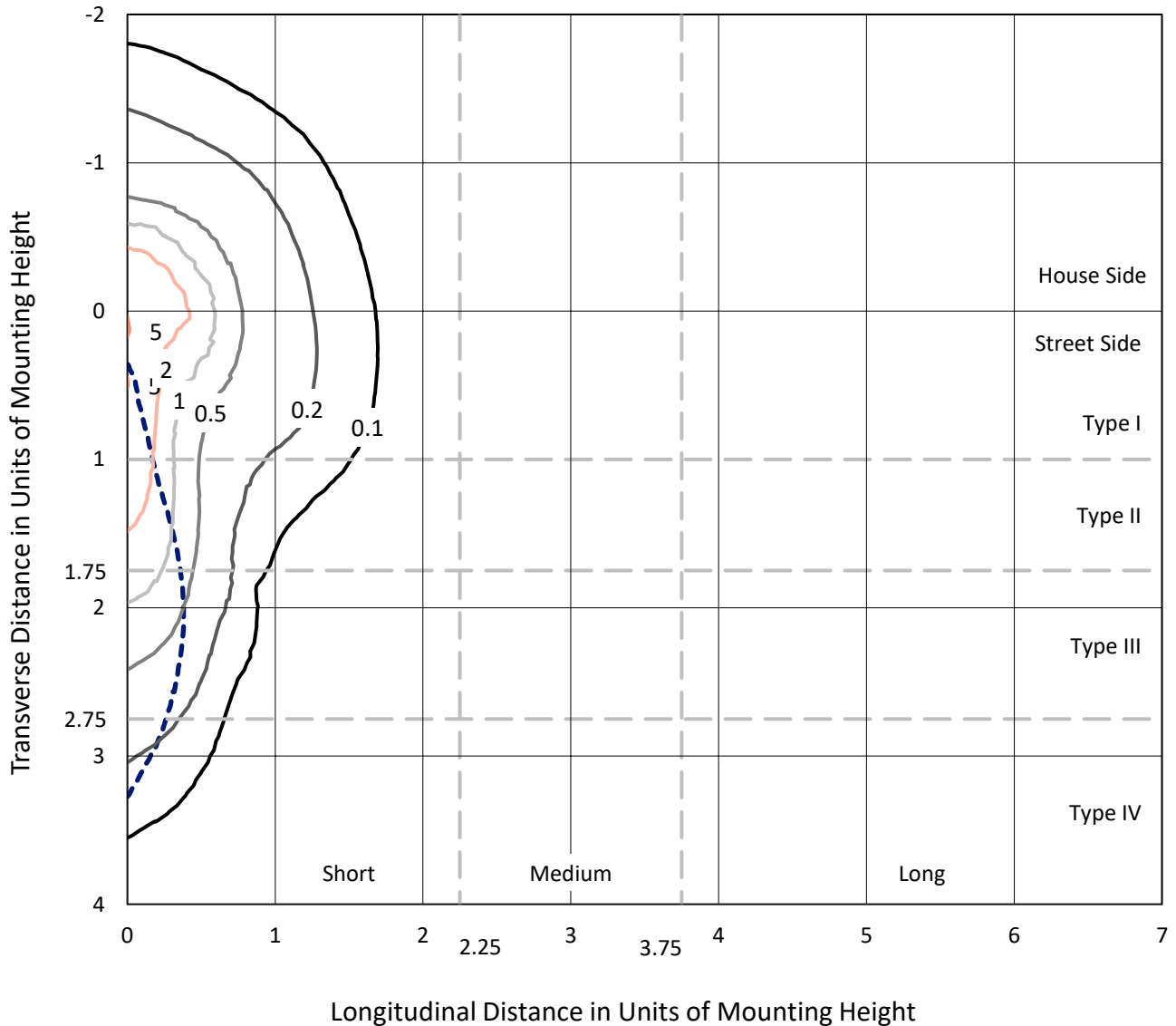




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Iso-Footcandle Lines of Horizontal Illumination

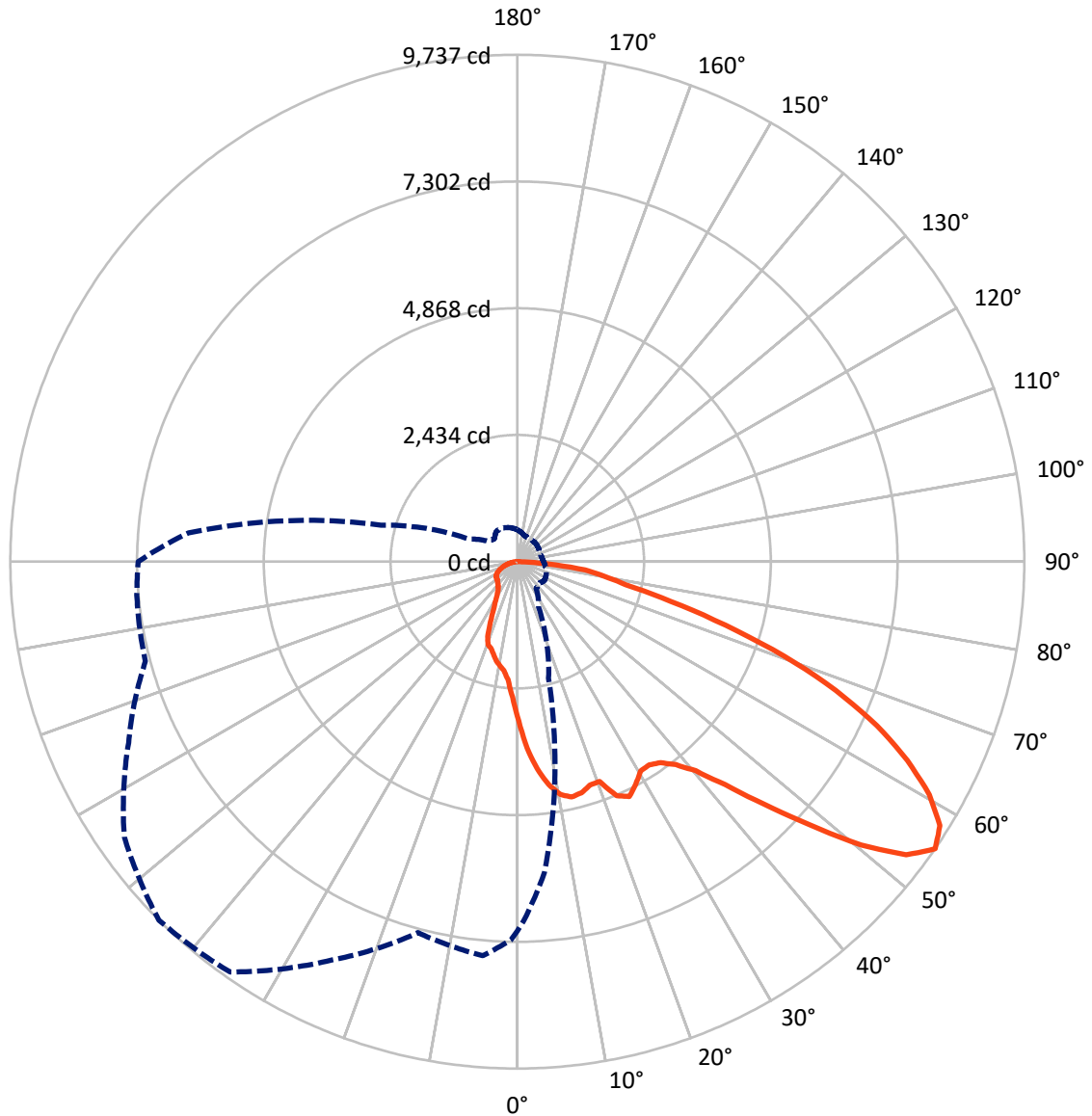
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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
House Side	Lumens	2665.9	0.0	2665.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9521.2	0.0	9521.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	12187.0	0.0	12187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.2	2.1
10°-20°	687.7	5.6
20°-30°	1188.0	9.7
30°-40°	1380.7	11.3
40°-50°	1926.3	15.8
50°-60°	2613.8	21.4
60°-70°	2486.7	20.4
70°-80°	1343.4	11.0
80°-90°	301.1	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°	12187.0	100.0
0°-180°	12187.0	100.0

Coefficient of Utilization



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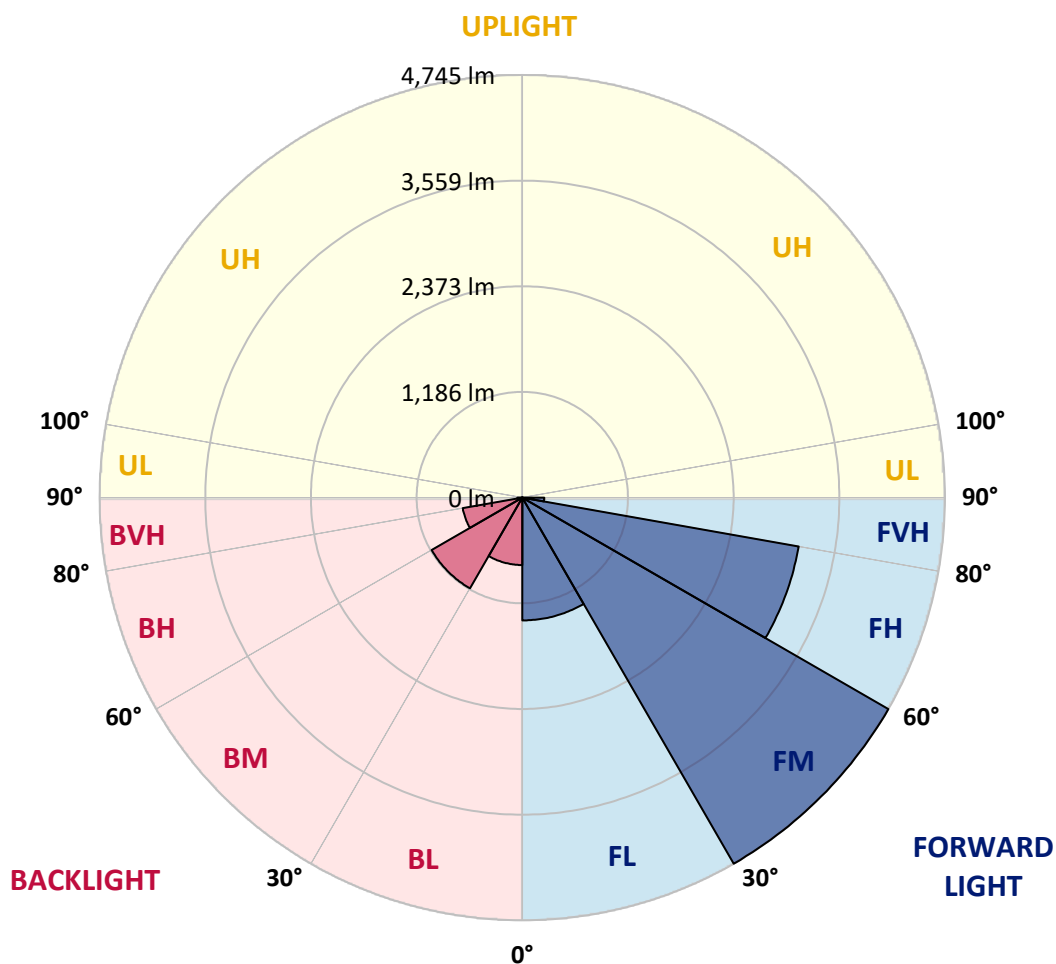
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1378.4	11.3			
FM	(30°-60°)	4745.4	38.9			
FH	(60°-80°)	3151.4	25.9			G2/5000
FVH	(80°-90°)	246.1	2.0			G3/500
BL	(0°-30°)	756.6	6.2	B2/1000		
BM	(30°-60°)	1175.5	9.6	B2/2500		
BH	(60°-80°)	678.8	5.6	B2/1000		G2/1000
BVH	(80°-90°)	55.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5
2.5°	3397.8	3384.9	3348.7	3253.8	3158.2	3060.9	2986.1	2892.8	2795.5	2743.3	2676.6
5°	3444.4	3429.9	3344.7	3130.8	2937.1	2733.6	2571.2	2428.9	2371.0	2285.8	2217.5
7.5°	3335.0	3328.6	3200.8	2893.6	2628.3	2362.2	2178.1	2063.9	1960.2	1921.6	1929.6
10°	3235.3	3209.6	3049.6	2648.4	2338.9	2122.6	1990.7	1879.0	1805.8	1786.5	1790.5
12.5°	3152.5	3118.0	2929.0	2483.6	2212.6	2039.8	1871.7	1755.2	1688.4	1706.9	1769.6
15°	3135.6	3089.0	2878.4	2427.3	2143.5	1920.8	1736.7	1602.4	1552.5	1592.7	1693.2
17.5°	3245.0	3186.3	2965.2	2445.8	2077.6	1799.4	1573.5	1419.9	1378.1	1442.4	1573.5
20°	3596.3	3509.5	3236.1	2552.7	2071.1	1739.1	1478.6	1324.2	1341.9	1464.1	1600.8
22.5°	4246.0	4115.7	3710.5	2708.7	2104.9	1723.8	1459.3	1378.9	1476.2	1579.9	1669.9
25°	4374.6	4272.5	3795.7	2744.1	2097.7	1713.3	1514.0	1554.2	1662.7	1714.2	1682.8
27.5°	4447.0	4330.4	3790.1	2568.8	1875.8	1554.2	1447.2	1514.0	1541.3	1491.4	1406.2
30°	4615.8	4494.4	3885.8	2384.7	1544.5	1153.0	1010.6	983.3	1001.8	1011.4	980.9
32.5°	4848.2	4728.4	4065.9	2264.1	1335.5	953.6	813.7	775.1	766.2	755.8	743.7
35°	5148.9	4964.8	4242.8	2186.9	1249.4	882.0	753.4	723.6	711.6	697.1	684.2
37.5°	5454.4	5261.5	4466.3	2105.7	1192.3	832.2	713.2	699.5	678.6	663.3	644.8
40°	5779.2	5563.0	4669.7	2035.0	1136.9	800.0	684.2	682.6	655.3	637.6	615.9
42.5°	6060.6	5837.9	4851.4	1991.5	1094.3	766.2	666.5	671.3	643.2	616.7	588.5
45°	6284.2	6065.5	5019.4	1991.5	1059.7	732.5	663.3	660.1	632.0	599.0	566.8
47.5°	6480.3	6254.4	5183.5	2042.2	1038.0	704.3	645.6	651.2	622.3	580.5	549.1
50°	6632.3	6432.9	5404.6	2121.0	1016.3	681.8	623.1	653.7	614.3	570.8	534.7
52.5°	6826.1	6647.6	5670.7	2228.7	997.8	656.9	603.0	653.7	613.5	571.7	532.3
55°	7094.6	6906.5	5991.5	2318.0	968.0	633.6	585.3	635.2	611.0	567.6	525.8
57.5°	7282.7	7142.0	6218.2	2377.5	925.4	603.8	569.2	617.5	600.6	552.4	506.5
58°	7291.6	7154.1	6251.2	2391.1	915.0	598.2	565.2	609.4	595.8	545.9	500.1
60°	7190.3	7072.1	6257.6	2371.8	855.5	570.0	544.3	576.5	570.0	508.1	465.5
62.5°	6822.0	6695.8	5997.9	2215.1	776.7	535.5	512.2	532.3	517.8	455.1	415.7
65°	6298.6	6066.3	5464.1	1969.0	720.4	498.5	468.7	470.3	455.1	410.0	375.5
67.5°	5601.6	5341.9	4626.3	1659.5	677.8	457.5	417.3	413.3	394.8	365.8	337.7
70°	4743.7	4566.0	3759.6	1349.9	630.3	412.5	359.4	357.0	345.7	324.0	299.1
72.5°	3844.8	3618.9	3035.9	1080.6	572.5	369.0	305.5	310.3	295.9	280.6	258.1
75°	2837.4	2689.4	2346.9	866.7	494.5	321.6	254.9	256.5	250.0	234.0	216.3
77.5°	1868.5	1824.3	1678.8	569.2	380.3	255.7	208.2	209.8	205.0	190.6	172.1
80°	1257.5	1227.7	1137.7	366.6	254.1	184.9	160.8	162.4	161.6	146.3	121.4
82.5°	775.1	762.2	733.3	247.6	176.1	132.7	106.1	111.0	119.8	102.9	82.8
85°	365.8	366.6	443.0	135.1	103.7	85.2	57.9	61.9	61.9	61.9	46.6
87.5°	47.4	49.8	61.1	57.1	37.8	32.2	20.9	17.7	15.3	20.1	14.5
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°	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5
2.5°	2653.2	2637.2	2602.6	2594.5	2589.7	2603.4	2567.2	2576.9	2560.8	2605.8	2598.6
5°	2221.5	2223.1	2251.2	2269.7	2276.2	2269.7	2245.6	2203.8	2171.6	2158.8	2162.0
7.5°	1914.4	1942.5	1990.7	2044.6	2093.6	2108.1	2094.5	2014.9	1928.0	1873.3	1855.7
10°	1812.2	1850.0	1905.5	1948.1	1991.5	2026.1	2033.3	1971.4	1868.5	1739.1	1688.4
12.5°	1817.9	1869.3	1922.4	1936.1	1932.0	1945.7	1939.3	1928.8	1861.3	1696.5	1612.0
15°	1764.8	1825.9	1862.9	1855.7	1842.8	1830.7	1813.9	1787.3	1763.2	1647.4	1554.2
17.5°	1642.6	1705.3	1735.9	1738.3	1738.3	1735.1	1694.1	1684.4	1681.2	1624.9	1567.8
20°	1665.1	1699.7	1686.0	1663.5	1669.9	1691.6	1667.5	1662.7	1681.2	1706.1	1695.7
22.5°	1678.0	1665.9	1563.0	1463.3	1440.8	1508.3	1522.0	1575.9	1650.6	1740.7	1799.4
25°	1598.4	1501.1	1317.0	1204.4	1140.9	1203.6	1285.6	1385.3	1497.1	1612.8	1681.2
27.5°	1336.3	1262.3	1130.4	1029.1	973.7	983.3	1053.3	1144.1	1247.8	1325.8	1375.7
30°	1006.6	973.7	905.3	870.7	837.0	828.9	858.7	893.3	939.1	948.7	961.6
32.5°	741.3	736.5	740.5	729.2	722.8	722.0	713.2	721.2	726.0	731.7	720.4
35°	670.5	664.1	652.9	649.6	645.6	647.2	643.2	639.2	642.4	647.2	650.4
37.5°	634.4	624.7	608.6	603.0	603.0	605.4	599.0	597.4	603.0	618.3	626.3
40°	606.2	595.0	576.5	569.2	574.1	580.5	571.7	568.4	582.1	598.2	611.0
42.5°	579.7	570.8	553.2	545.1	549.1	561.2	548.3	545.9	563.6	581.3	596.6
45°	557.2	548.3	532.3	528.2	529.8	541.1	532.3	532.3	549.1	568.4	582.1
47.5°	539.5	528.2	517.8	514.6	516.2	522.6	521.0	521.0	537.1	557.2	570.8
50°	521.8	512.2	498.5	500.1	504.1	513.0	512.2	514.6	530.6	555.6	570.0
52.5°	513.8	499.3	484.0	485.6	497.7	508.1	504.9	507.3	525.8	572.5	593.4
55°	504.9	485.6	467.9	470.3	484.0	499.3	495.3	498.5	520.2	583.7	612.7
57.5°	488.0	465.5	446.2	447.8	467.9	484.0	477.6	481.6	507.3	571.7	602.2
58°	480.8	461.5	443.0	443.8	463.1	480.8	473.6	476.8	503.3	568.4	597.4
60°	450.2	439.0	422.9	423.7	442.2	457.5	453.5	456.7	482.4	545.1	566.8
62.5°	408.4	402.0	398.0	398.0	409.2	423.7	427.7	431.8	455.1	492.9	512.2
65°	363.4	363.4	364.2	364.2	371.5	389.9	392.4	402.8	424.5	443.0	457.5
67.5°	332.9	331.3	332.9	328.8	332.1	343.3	355.4	365.0	387.5	400.4	405.2
70°	293.5	292.7	293.5	287.8	291.9	301.5	309.5	325.6	348.9	358.6	361.0
72.5°	254.9	254.9	256.5	252.5	252.5	262.9	268.5	286.2	307.9	313.6	314.4
75°	214.7	217.1	217.1	211.5	213.1	219.5	226.7	241.2	261.3	265.3	265.3
77.5°	170.5	179.3	179.3	173.7	176.1	176.9	186.5	193.8	209.0	210.7	204.2
80°	123.8	132.7	139.9	135.1	139.1	134.3	139.9	144.7	160.0	152.8	142.3
82.5°	88.4	94.9	100.5	101.3	97.3	88.4	95.7	96.5	103.7	94.1	88.4
85°	49.0	54.7	61.9	58.7	52.3	46.6	49.0	50.7	49.8	47.4	44.2
87.5°	12.9	13.7	15.3	11.3	10.5	8.8	12.1	12.1	13.7	14.5	13.7
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°	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5
2.5°	2604.2	2639.6	2716.0	2773.8	2844.6	2930.6	3031.9	3134.0	3244.2	3278.8	3327.0
5°	2154.8	2243.2	2280.2	2385.5	2490.0	2646.8	2814.0	3007.8	3220.1	3322.2	3420.3
7.5°	1841.2	1888.6	1927.2	2004.4	2129.8	2320.4	2530.2	2772.2	3072.9	3221.7	3365.6
10°	1672.3	1677.2	1724.6	1820.3	1929.6	2097.7	2296.3	2567.2	2902.5	3083.4	3252.2
12.5°	1560.6	1539.7	1591.1	1690.8	1814.7	1969.8	2152.3	2410.4	2779.5	2965.2	3169.4
15°	1462.5	1429.5	1468.1	1570.2	1692.4	1875.0	2071.1	2344.5	2731.2	2947.5	3174.2
17.5°	1464.9	1374.1	1387.7	1473.8	1595.2	1780.9	2018.9	2342.1	2804.4	3053.6	3322.2
20°	1645.8	1500.3	1438.4	1454.5	1571.8	1774.5	2043.0	2454.6	3044.8	3408.2	3695.2
22.5°	1823.5	1735.9	1636.2	1603.2	1667.5	1879.8	2196.6	2720.8	3567.4	4114.9	4633.5
25°	1761.6	1836.4	1811.4	1764.8	1779.3	1955.4	2301.1	2939.5	3973.4	4590.1	5077.3
27.5°	1409.4	1545.3	1572.6	1571.8	1577.5	1722.2	2069.5	2792.3	4024.1	4681.0	5146.5
30°	990.5	1002.6	1017.1	1045.2	1070.9	1200.4	1619.3	2451.4	4001.6	4722.0	5188.3
32.5°	714.8	730.8	750.9	789.5	850.6	1015.5	1416.7	2342.9	4120.6	4891.6	5310.5
35°	653.7	672.2	691.5	735.7	793.6	946.3	1336.3	2297.9	4315.9	5166.6	5530.0
37.5°	634.4	655.3	672.2	704.3	750.9	896.5	1263.1	2267.3	4516.1	5457.6	5824.3
40°	620.7	644.8	658.5	684.2	716.4	850.6	1198.0	2243.2	4709.9	5723.8	6060.6
42.5°	608.6	633.6	651.2	669.7	696.3	809.6	1140.1	2219.1	4877.9	5981.8	6296.2
45°	594.2	625.5	648.0	662.5	685.8	775.1	1095.9	2199.8	5069.3	6211.0	6534.2
47.5°	582.1	616.7	644.8	661.7	670.5	750.9	1060.5	2226.3	5299.2	6450.6	6755.3
50°	582.9	615.9	651.2	677.8	654.5	730.8	1038.8	2331.6	5598.3	6735.2	6929.8
52.5°	608.6	648.8	677.0	683.4	632.0	706.7	1027.5	2515.8	5952.1	6986.9	7105.9
55°	637.6	679.4	709.9	705.9	619.9	676.2	1025.1	2711.9	6339.6	7280.3	7335.0
57.5°	627.1	688.2	734.9	714.0	620.7	646.4	1014.7	2870.3	6663.6	7499.8	7561.7
58°	623.9	685.0	738.1	712.4	618.3	637.6	1012.3	2884.0	6708.7	7515.1	7593.9
60°	592.6	656.9	735.7	700.3	604.6	613.5	985.7	2928.2	6696.6	7436.3	7613.2
62.5°	535.5	588.5	680.2	641.6	562.8	581.3	926.2	2873.5	6370.2	7056.8	7331.0
65°	471.2	510.5	571.7	564.4	503.3	548.3	845.0	2657.3	5716.5	6440.9	6729.6
67.5°	422.9	455.1	493.7	483.2	452.7	504.1	757.4	2291.4	4983.3	5701.2	6064.7
70°	373.9	398.8	418.1	410.9	401.2	460.7	679.4	1859.7	4280.6	4998.5	5350.7
72.5°	324.0	347.3	363.4	353.0	347.3	414.9	615.9	1443.2	3380.9	4123.8	4576.4
75°	271.0	294.3	305.5	293.5	290.2	365.8	521.8	1078.2	2536.7	3179.1	3569.8
77.5°	209.8	234.8	249.2	245.2	246.8	300.7	421.3	738.1	1813.9	2166.8	2578.5
80°	147.1	174.5	184.1	180.1	191.4	229.1	297.5	468.7	1251.0	1406.2	1696.5
82.5°	90.9	116.6	118.2	122.2	130.2	169.6	224.3	285.4	785.5	812.1	1022.7
85°	45.8	55.5	59.5	65.9	73.2	103.7	127.8	176.9	505.7	382.7	571.7
87.5°	15.3	16.1	19.3	24.1	29.7	42.6	54.7	72.4	125.4	69.1	176.9
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: P451655

CATALOG NUMBER: GALN-SA2C-740-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5	3058.5
2.5°	3424.3	3492.6	3542.5	3588.3	3544.1	3540.1	3496.6	3426.7	3397.8	3397.8
5°	3626.1	3786.1	3915.5	3998.4	3963.0	3877.7	3737.0	3557.8	3461.3	3444.4
7.5°	3681.6	3997.5	4237.9	4323.2	4263.7	4075.5	3806.2	3503.9	3365.6	3335.0
10°	3647.8	4058.7	4411.6	4546.7	4463.9	4179.3	3811.8	3441.2	3270.7	3235.3
12.5°	3612.4	4066.7	4443.8	4639.1	4585.3	4262.9	3852.8	3400.2	3203.2	3152.5
15°	3638.2	4069.9	4404.4	4606.2	4640.8	4363.4	3920.4	3429.9	3189.5	3135.6
17.5°	3800.6	4131.0	4348.1	4511.3	4632.7	4500.1	4112.5	3572.2	3311.7	3245.0
20°	4139.9	4277.3	4380.3	4506.5	4701.9	4779.0	4505.7	3963.0	3655.0	3596.3
22.5°	5122.4	5097.4	4886.8	4884.4	5167.4	5476.9	5458.4	4757.3	4294.2	4246.0
25°	5490.6	5374.8	5070.1	4996.1	5120.8	5598.3	5529.2	4919.7	4492.0	4374.6
27.5°	5346.7	5059.6	4859.4	4842.6	4801.6	5252.6	5419.0	4985.7	4561.2	4447.0
30°	5337.8	4915.7	4629.5	4663.3	4702.7	5133.6	5480.1	5192.3	4738.0	4615.8
32.5°	5359.5	4935.8	4646.4	4652.8	4770.2	5151.3	5547.7	5417.4	4970.4	4848.2
35°	5447.2	5050.0	4754.1	4738.8	4922.2	5267.1	5662.7	5771.2	5288.0	5148.9
37.5°	5588.7	5277.5	4951.1	4947.1	5213.2	5476.1	5805.8	6128.2	5604.0	5454.4
40°	5796.9	5543.7	5301.7	5279.9	5608.8	5816.2	5991.5	6508.5	5971.4	5779.2
42.5°	6048.6	5862.9	5764.0	5850.0	6166.0	6198.1	6280.9	6859.8	6284.2	6060.6
45°	6281.7	6272.9	6410.4	6638.7	6822.8	6629.9	6583.2	7095.4	6527.0	6284.2
47.5°	6559.1	6798.7	7213.6	7548.1	7741.0	7132.4	6841.3	7249.0	6703.9	6480.3
50°	6840.5	7428.3	8090.8	8557.1	8598.1	7678.3	7019.0	7393.7	6864.7	6632.3
52.5°	7136.4	7930.8	8812.8	9354.7	9275.1	8153.5	7191.1	7491.8	7030.3	6826.1
55°	7393.7	8238.7	9216.4	9736.6	9620.0	8442.9	7376.8	7597.9	7266.7	7094.6
57.5°	7537.6	8264.4	9115.9	9570.2	9443.9	8386.6	7462.0	7676.7	7417.8	7282.7
58°	7558.5	8229.9	9026.6	9473.7	9345.0	8339.2	7461.2	7673.5	7427.5	7291.6
60°	7540.0	8005.5	8694.6	9092.6	8957.5	8041.7	7430.7	7613.2	7305.3	7190.3
62.5°	7368.8	7616.4	8121.3	8410.8	8372.2	7577.0	7305.3	7385.7	6933.0	6822.0
65°	7143.6	7085.8	7387.3	7592.3	7621.2	7228.9	7180.6	6893.6	6455.4	6298.6
67.5°	6870.3	6484.4	6483.6	6600.1	6648.4	6693.4	6920.9	6358.9	5767.2	5601.6
70°	6406.4	5557.3	5301.7	5439.1	5398.9	5779.2	6457.0	5608.0	4937.4	4743.7
72.5°	5555.7	4410.0	4000.8	4177.6	4076.3	4532.2	5649.8	4615.0	4082.8	3844.8
75°	4503.3	3298.9	2876.8	3039.2	2976.5	3438.0	4701.1	3351.9	2928.2	2837.4
77.5°	3496.6	2390.3	2145.1	2122.6	2169.2	2558.4	3448.4	2263.3	1930.4	1868.5
80°	2246.4	1710.9	1725.4	1696.5	1720.6	1612.8	2093.6	1444.0	1307.3	1257.5
82.5°	1478.6	1192.3	1421.5	1312.1	1246.2	1084.6	1373.3	945.5	802.4	775.1
85°	1007.4	878.0	799.2	611.0	719.6	835.4	1029.9	508.9	403.6	365.8
87.5°	455.1	305.5	224.3	138.3	218.7	252.5	500.1	59.5	45.8	47.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)