

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: P529642

Luminaire Tested: **GALN-SA4D-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529642
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-SA4D-740-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA 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: 22792 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

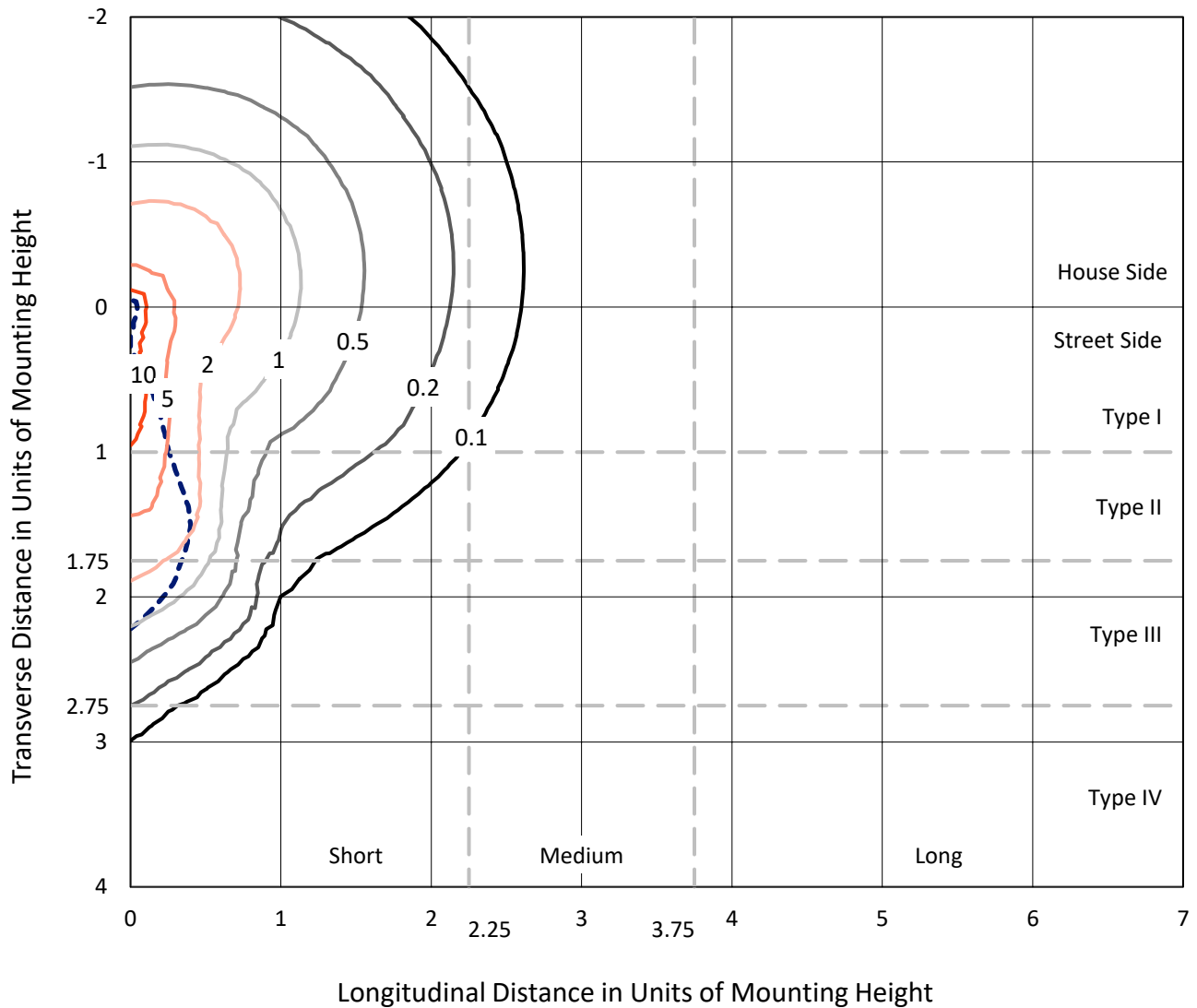
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529642
 CATALOG NUMBER: GALN-SA4D-740-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

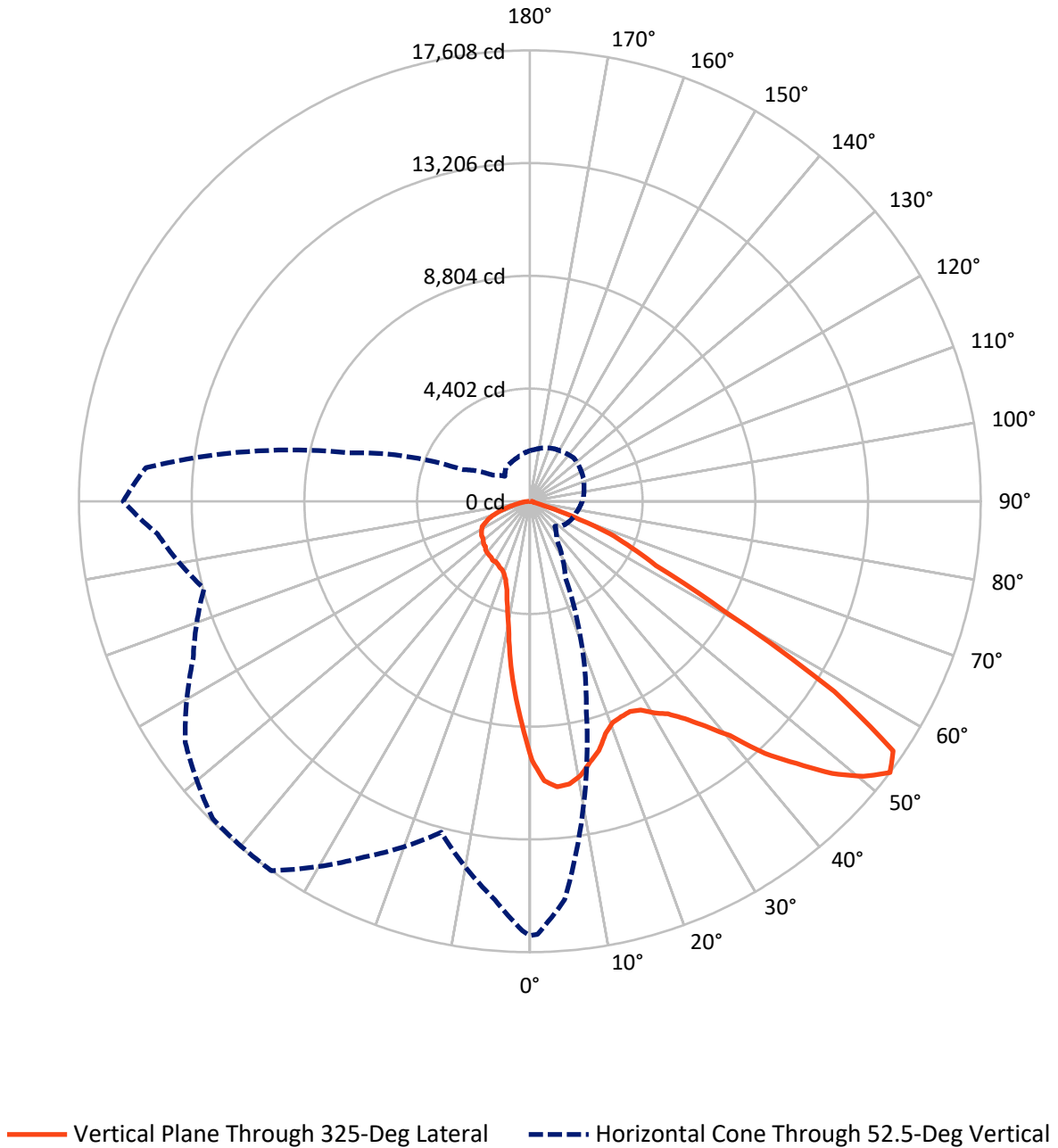
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type III - Short - N/A

REPORT NUMBER: P529642
CATALOG NUMBER: GALN-SA4D-740-U-SLR-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P529642
 CATALOG NUMBER: GALN-SA4D-740-U-SLR-GRSWH

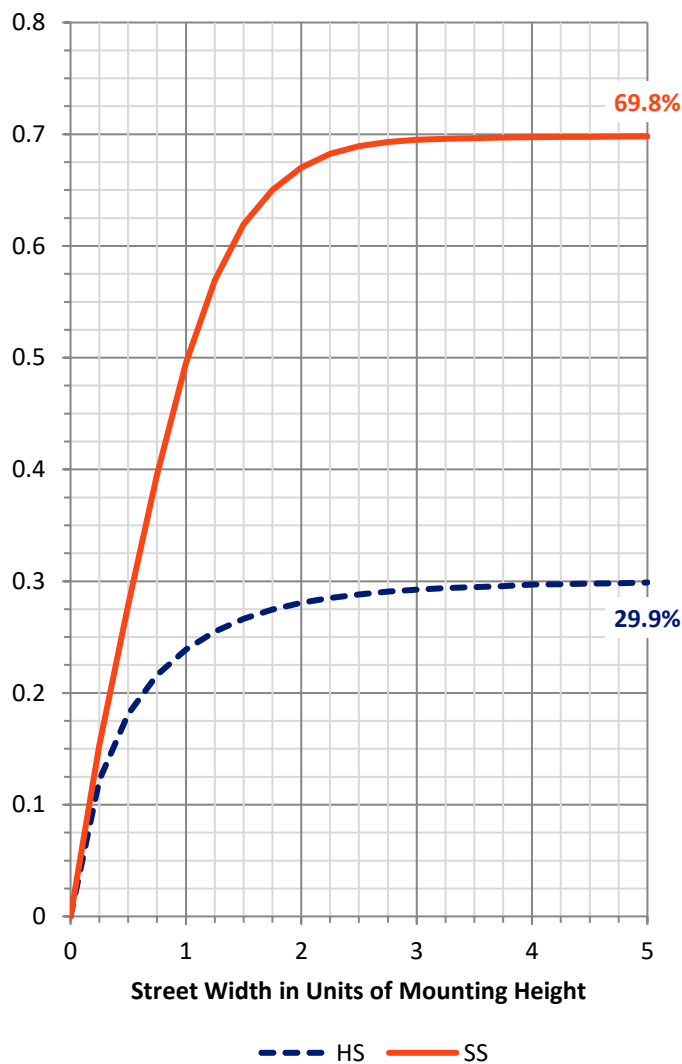
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6870.8	0.0	6870.8
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	15921.2	0.0	15921.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	22792.0	0.0	22792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.7	3.4
10°-20°	1672.9	7.3
20°-30°	2527.7	11.1
30°-40°	3652.6	16.0
40°-50°	4861.0	21.3
50°-60°	5437.1	23.9
60°-70°	3064.3	13.4
70°-80°	683.1	3.0
80°-90°	121.6	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°	22792.0	100.0
0°-180°	22792.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529642

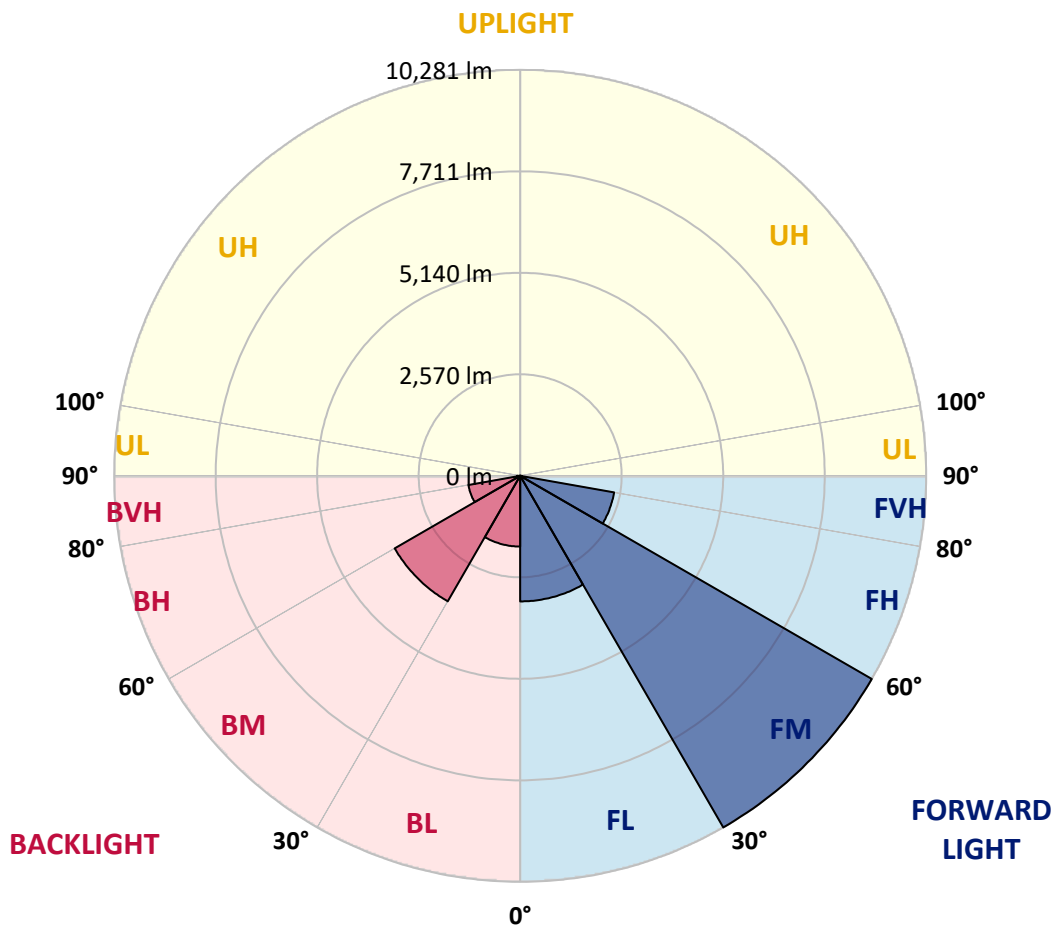
CATALOG NUMBER: GALN-SA4D-740-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3180.6	14.0			
FM (30°-60°)	10280.9	45.1			
FH (60°-80°)	2415.6	10.6			G2/5000
FVH (80°-90°)	44.0	0.2			G1/100
BL (0°-30°)	1791.8	7.9	B3/2500		
BM (30°-60°)	3669.7	16.1	B3/5000		
BH (60°-80°)	1331.8	5.8	B3/2500		G3/2500
BVH (80°-90°)	77.6	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





REPORT NUMBER: P529642

CATALOG NUMBER: GALN-SA4D-740-U-SLR-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2
2.5°	10283.7	10448.9	10270.5	9953.4	9728.7	9523.9	9309.2	9266.2	8985.4	8935.9	8731.1
5°	9699.0	9662.7	9444.6	9028.4	8569.2	8153.0	7845.7	7548.4	7346.9	7112.4	7095.9
7.5°	8988.7	8777.3	8651.8	8020.8	7452.6	6798.5	6517.7	6065.2	5923.1	5711.7	5602.7
10°	8354.5	8199.2	7905.2	7274.2	6481.4	6048.7	5748.0	5503.6	5338.4	5120.4	4846.2
12.5°	8040.6	7977.9	7647.5	6669.7	6081.7	5619.2	5407.8	5169.9	4889.1	4539.0	4403.5
15°	8096.8	7885.4	7634.3	6554.1	5741.4	5295.5	4958.5	4661.2	4301.1	3967.5	3772.6
17.5°	8516.3	8354.5	7852.4	6626.8	5612.6	4968.4	4357.3	3917.9	3594.2	3293.6	3158.1
20°	9342.2	9107.7	8542.8	6719.3	5335.1	4512.5	3812.2	3270.4	2923.6	2765.0	2718.8
22.5°	10257.3	10118.5	9216.7	6927.4	5113.8	4089.7	3234.1	2692.3	2563.5	2520.5	2606.4
25°	11370.5	11010.5	10263.9	7267.6	4942.0	3729.6	2745.2	2444.6	2378.5	2421.4	2520.5
27.5°	12216.2	12120.4	10997.3	7588.1	4707.4	3296.9	2471.0	2272.8	2292.6	2335.6	2428.1
30°	13220.5	12734.9	11707.5	7809.4	4496.0	2999.6	2279.4	2226.5	2246.4	2319.0	2365.3
32.5°	13825.0	13643.3	12153.5	8143.1	4251.6	2741.9	2130.7	2081.2	2110.9	2219.9	2328.9
35°	14594.7	14234.7	12705.2	8228.9	4079.8	2639.5	2025.0	1988.7	2058.1	2134.0	2256.3
37.5°	15493.3	15245.5	13468.3	8169.5	3987.3	2533.8	1935.8	1919.3	1968.9	2074.6	2216.6
40°	16025.1	15949.2	13868.0	8205.8	3841.9	2441.3	1833.4	1853.2	1955.7	2038.2	2177.0
42.5°	16537.2	16041.7	14459.3	8192.6	3749.4	2315.7	1843.3	1820.2	1899.5	1995.3	2127.4
45°	16649.5	16157.3	14598.0	8100.1	3637.1	2193.5	1767.4	1777.3	1873.1	1992.0	2077.9
47.5°	16576.8	16213.4	14855.7	8073.7	3531.4	2107.6	1655.0	1774.0	1830.1	1925.9	2048.2
50°	16527.3	16507.4	15073.7	8199.2	3389.4	1972.2	1519.6	1731.0	1787.2	1883.0	2015.1
52.5°	16963.3	16920.4	15618.8	8529.6	3277.0	1826.8	1380.9	1622.0	1757.4	1849.9	1978.8
55°	17227.6	17039.3	16553.7	8935.9	3088.7	1635.2	1285.1	1486.6	1684.8	1767.4	1899.5
57.5°	15496.6	15367.7	14974.6	8341.3	2771.6	1384.2	1166.1	1347.8	1585.7	1714.5	1849.9
60°	12893.4	12691.9	11684.4	7089.2	2044.8	1076.9	1093.4	1238.8	1559.2	1608.8	1767.4
62.5°	12156.8	11658.0	10287.0	5705.1	1569.1	925.0	981.1	1139.7	1420.5	1503.1	1661.6
65°	9646.1	9276.1	7360.1	4119.4	1050.5	802.7	895.2	1027.4	1225.6	1387.5	1532.8
67.5°	6038.7	5685.3	3927.8	1949.0	733.4	687.1	799.4	938.2	1100.1	1245.4	1407.3
70°	3154.8	2768.3	1813.6	703.6	505.4	561.6	667.3	799.4	958.0	1076.9	1202.5
72.5°	1176.0	954.7	591.3	303.9	350.2	429.5	541.8	637.6	749.9	895.2	964.6
75°	181.7	155.3	152.0	185.0	237.8	310.5	386.5	482.3	581.4	673.9	720.2
77.5°	85.9	82.6	92.5	122.2	158.6	221.3	280.8	373.3	452.6	512.0	538.5
80°	56.2	52.9	59.5	82.6	118.9	165.2	224.6	287.4	360.1	409.6	403.0
82.5°	33.0	36.3	36.3	56.2	82.6	118.9	161.9	218.0	267.6	310.5	284.1
85°	19.8	16.5	16.5	33.0	56.2	95.8	135.4	92.5	95.8	95.8	109.0
87.5°	6.6	6.6	6.6	3.3	6.6	6.6	9.9	16.5	19.8	23.1	29.7
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: P529642

CATALOG NUMBER: GALN-SA4D-740-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2
2.5°	8724.5	8826.9	8790.5	8661.7	8760.8	8777.3	8711.3	8939.2	8982.1	8912.8	8932.6
5°	7072.7	7099.2	7158.6	7284.2	7373.3	7479.1	7479.1	7485.7	7396.5	7621.1	7555.0
7.5°	5510.2	5526.7	5596.1	5863.7	5939.6	6141.2	6227.0	6167.6	5989.2	5913.2	5976.0
10°	4757.0	4661.2	4638.1	4671.1	4842.9	4928.8	5001.5	4981.6	4951.9	4892.4	4826.4
12.5°	4254.9	4185.5	4129.3	4050.1	4060.0	4142.6	4198.7	4152.5	4165.7	4178.9	4198.7
15°	3709.8	3660.2	3630.5	3511.6	3498.4	3554.5	3574.4	3600.8	3650.3	3653.6	3630.5
17.5°	3131.7	3088.7	3154.8	3220.9	3174.6	3177.9	3214.3	3237.4	3224.2	3164.7	3135.0
20°	2735.3	2781.5	2847.6	2910.4	2959.9	2989.6	3002.9	2966.5	2923.6	2801.3	2798.0
22.5°	2619.7	2679.1	2735.3	2831.1	2877.3	2953.3	2883.9	2801.3	2741.9	2682.4	2613.0
25°	2533.8	2583.3	2695.6	2732.0	2821.2	2883.9	2834.4	2751.8	2649.4	2563.5	2510.6
27.5°	2471.0	2527.2	2599.8	2698.9	2768.3	2804.6	2755.1	2722.1	2616.3	2513.9	2438.0
30°	2431.4	2490.8	2623.0	2705.5	2765.0	2794.7	2708.8	2669.2	2593.2	2507.3	2441.3
32.5°	2404.9	2457.8	2570.1	2675.8	2715.5	2715.5	2728.7	2682.4	2576.7	2431.4	2375.2
35°	2319.0	2391.7	2484.2	2606.4	2679.1	2722.1	2656.0	2603.1	2533.8	2385.1	2282.7
37.5°	2269.5	2319.0	2438.0	2553.6	2616.3	2662.6	2636.2	2543.7	2451.2	2328.9	2246.4
40°	2216.6	2295.9	2401.6	2510.6	2580.0	2626.3	2606.4	2497.4	2385.1	2269.5	2213.3
42.5°	2180.3	2233.1	2342.2	2464.4	2547.0	2636.2	2576.7	2441.3	2362.0	2203.4	2140.6
45°	2150.6	2236.5	2352.1	2401.6	2487.5	2580.0	2474.3	2391.7	2299.2	2183.6	2130.7
47.5°	2114.2	2193.5	2269.5	2401.6	2441.3	2484.2	2464.4	2332.3	2253.0	2127.4	2091.1
50°	2101.0	2130.7	2269.5	2342.2	2398.3	2441.3	2388.4	2289.3	2213.3	2084.5	2005.2
52.5°	2048.2	2104.3	2193.5	2289.3	2358.7	2411.5	2325.6	2262.9	2160.5	2025.0	1975.5
55°	1982.1	2015.1	2173.7	2272.8	2309.1	2345.5	2312.4	2210.0	2104.3	1965.6	1916.0
57.5°	1896.2	1972.2	2101.0	2239.8	2286.0	2305.8	2253.0	2170.4	2038.2	1916.0	1836.7
60°	1807.0	1886.3	2028.3	2140.6	2186.9	2259.6	2180.3	2130.7	1978.8	1843.3	1757.4
62.5°	1717.8	1807.0	1912.7	2054.8	2094.4	2124.1	2104.3	2034.9	1912.7	1760.8	1655.0
65°	1612.1	1678.2	1810.3	1883.0	1909.4	1978.8	1909.4	1883.0	1774.0	1628.6	1539.4
67.5°	1453.5	1509.7	1625.3	1694.7	1714.5	1744.2	1740.9	1711.2	1589.0	1489.9	1410.6
70°	1271.8	1321.4	1394.1	1476.7	1486.6	1522.9	1489.9	1483.3	1404.0	1268.5	1225.6
72.5°	1020.8	1067.0	1162.8	1199.2	1202.5	1215.7	1199.2	1176.0	1156.2	1014.2	971.2
75°	782.9	809.4	855.6	888.6	888.6	905.2	895.2	872.1	819.3	730.1	687.1
77.5°	545.1	571.5	631.0	650.8	647.5	654.1	624.4	601.2	521.9	475.7	439.4
80°	396.4	412.9	442.7	455.9	459.2	469.1	432.8	412.9	366.7	313.8	297.3
82.5°	287.4	297.3	300.6	317.1	317.1	300.6	290.7	270.9	237.8	204.8	191.6
85°	118.9	122.2	125.5	145.4	148.7	178.4	165.2	155.3	135.4	115.6	105.7
87.5°	29.7	33.0	42.9	36.3	42.9	42.9	46.2	52.9	52.9	42.9	42.9
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: P529642

CATALOG NUMBER: GALN-SA4D-740-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2
2.5°	9008.6	9035.0	9371.9	9414.9	9580.1	9748.5	10088.8	10333.3	10531.5	10660.3	10696.6
5°	7624.4	7792.9	7948.2	8199.2	8427.2	8750.9	9124.2	9586.7	10168.1	10465.4	10584.3
7.5°	5969.4	6167.6	6392.2	6636.7	6970.3	7551.7	8050.6	8585.7	9329.0	9636.2	10102.0
10°	4872.6	5094.0	5391.3	5579.6	5982.6	6537.6	7119.0	7736.7	8447.0	8889.6	9428.1
12.5°	4307.7	4489.4	4763.6	5160.0	5460.6	5820.7	6253.5	7033.1	8050.6	8470.1	8840.1
15°	3683.4	3884.9	4202.0	4641.4	5001.5	5430.9	5916.5	6765.5	7849.0	8496.5	8810.4
17.5°	3168.0	3313.4	3647.0	4026.9	4439.9	4909.0	5606.0	6752.3	8060.5	8889.6	9401.7
20°	2811.3	2831.1	3012.8	3336.5	3898.1	4509.2	5414.4	6686.2	8737.7	9566.9	10214.3
22.5°	2586.6	2566.8	2570.1	2844.3	3237.4	4116.1	5113.8	6910.9	9507.4	10643.8	11079.8
25°	2474.3	2421.4	2388.4	2447.9	2804.6	3650.3	4885.8	7208.2	10336.6	11532.4	12067.6
27.5°	2414.8	2322.3	2256.3	2266.2	2527.2	3415.8	4743.8	7337.0	11159.1	12771.2	12959.5
30°	2391.7	2276.1	2180.3	2147.3	2319.0	3088.7	4439.9	7558.3	11895.8	13451.7	13613.6
32.5°	2309.1	2167.1	2074.6	2044.8	2114.2	2801.3	4221.8	7716.9	12546.6	14191.7	14135.6
35°	2213.3	2094.4	1978.8	1922.6	1972.2	2616.3	4046.8	7640.9	13313.0	14766.5	14736.8
37.5°	2203.4	2048.2	1952.4	1859.9	1856.6	2388.4	3808.9	7713.6	13801.9	15797.2	15390.9
40°	2117.5	2018.4	1892.9	1816.9	1774.0	2272.8	3577.7	7541.8	14518.8	16213.4	15813.7
42.5°	2120.8	1972.2	1863.2	1774.0	1731.0	2104.3	3419.1	7495.6	14769.8	16890.6	16011.9
45°	2068.0	1922.6	1830.1	1724.4	1701.3	1975.5	3267.1	7280.9	15212.5	16923.7	15764.2
47.5°	2015.1	1886.3	1787.2	1661.6	1608.8	1929.2	3148.2	7102.5	14981.2	16613.2	15420.6
50°	1978.8	1830.1	1737.6	1648.4	1499.8	1849.9	2992.9	7059.5	14657.5	16193.6	14783.0
52.5°	1916.0	1783.9	1688.1	1618.7	1380.9	1777.3	2933.5	7310.6	15053.9	15879.8	14598.0
55°	1856.6	1721.1	1598.9	1463.4	1281.7	1585.7	2768.3	7545.1	15632.0	16603.2	15437.1
57.5°	1793.8	1664.9	1532.8	1370.9	1185.9	1387.5	2596.5	7588.1	14548.5	15344.6	14654.2
60°	1711.2	1546.0	1446.9	1235.5	1083.5	1149.6	2058.1	6689.5	11284.7	12814.2	12837.3
62.5°	1618.7	1440.3	1354.4	1106.7	977.8	991.0	1678.2	5622.5	9153.9	10607.4	11238.4
65°	1496.5	1324.7	1222.3	1024.1	901.8	858.9	1228.9	4119.4	6953.8	8605.5	9322.4
67.5°	1337.9	1176.0	1047.2	891.9	806.0	736.7	839.1	2319.0	4106.2	5777.8	5995.8
70°	1169.4	1030.7	895.2	766.4	670.6	621.1	614.4	1027.4	1962.3	3108.6	3538.0
72.5°	921.7	822.6	713.5	617.7	555.0	482.3	439.4	426.1	664.0	1265.2	1747.5
75°	660.7	578.1	515.3	452.6	406.3	366.7	333.7	303.9	277.5	317.1	436.1
77.5°	416.2	386.5	337.0	320.4	294.0	284.1	270.9	254.4	234.5	221.3	221.3
80°	280.8	261.0	244.5	241.2	231.2	227.9	231.2	214.7	194.9	178.4	185.0
82.5°	188.3	185.0	181.7	178.4	181.7	185.0	191.6	188.3	171.8	161.9	165.2
85°	112.3	118.9	125.5	132.1	145.4	128.8	105.7	89.2	79.3	72.7	69.4
87.5°	42.9	59.5	52.9	49.6	52.9	49.6	46.2	42.9	36.3	33.0	33.0
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: P529642

CATALOG NUMBER: GALN-SA4D-740-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2	10115.2
2.5°	10937.8	11003.9	11060.0	11046.8	10931.2	10775.9	10713.2	10392.7	10326.7	10283.7
5°	11086.5	11469.7	11552.2	11502.7	11202.1	10822.2	10452.2	9983.1	9708.9	9699.0
7.5°	10812.3	11284.7	11433.3	11545.6	11145.9	10485.2	9851.0	9147.3	8975.5	8988.7
10°	10115.2	10868.4	11235.1	11350.7	10891.5	10320.0	9441.3	8727.8	8361.1	8354.5
12.5°	9728.7	10320.0	10422.5	10584.3	10448.9	9870.8	9203.5	8404.0	8047.3	8040.6
15°	9385.2	9775.0	9804.7	10032.6	10105.3	9715.5	9266.2	8413.9	8126.5	8096.8
17.5°	9685.8	9414.9	9302.6	9332.3	9547.0	9689.1	9629.6	8975.5	8681.5	8516.3
20°	9887.3	9282.8	8942.5	8975.5	9229.9	9748.5	10171.4	9788.2	9322.4	9342.2
22.5°	10425.8	9302.6	8770.7	8734.4	9137.4	10059.1	10782.5	10815.6	10366.3	10257.3
25°	11231.8	9530.5	8717.9	8708.0	9094.5	10392.7	11496.1	12031.2	11572.1	11370.5
27.5°	11879.3	9887.3	8883.0	8916.1	9229.9	10663.6	12103.9	12814.2	12464.0	12216.2
30°	12447.5	10257.3	9114.3	8962.3	9593.3	10805.7	12364.9	13706.1	13425.3	13220.5
32.5°	12682.0	10782.5	9481.0	9229.9	9893.9	10977.4	12906.7	14571.6	14330.5	13825.0
35°	13078.4	11076.5	9679.2	9659.4	10419.1	11390.4	13161.0	15143.1	15044.0	14594.7
37.5°	13395.6	11373.9	10382.8	10164.8	11139.3	12084.1	13570.7	15932.6	15704.7	15493.3
40°	13640.0	11905.7	11040.2	11327.6	12024.6	12715.1	13947.3	15982.2	16639.6	16025.1
42.5°	13415.4	12381.4	12120.4	12807.6	13468.3	13435.2	13990.2	16365.4	16857.6	16537.2
45°	13359.2	13187.5	13828.3	14452.7	14604.6	14033.1	13683.0	15942.6	16791.5	16649.5
47.5°	13223.8	13980.3	15096.9	16114.3	15883.1	14432.9	13316.3	15866.6	16831.2	16576.8
50°	13177.5	14152.1	16035.1	17026.1	16887.3	14779.7	13144.5	15377.7	16550.4	16527.3
52.5°	13174.2	14505.5	16424.9	17521.6	17607.5	15328.1	13379.1	15625.4	16768.4	16963.3
55°	13322.9	14393.2	16375.3	17247.4	17214.4	15083.7	13405.5	15790.6	17036.0	17227.6
57.5°	12566.4	12893.4	13514.5	14204.9	14026.5	12493.7	11971.8	14598.0	15635.3	15496.6
60°	10851.9	9827.8	9127.5	9094.5	8747.6	8268.6	9798.1	13028.9	13028.9	12893.4
62.5°	9504.1	6451.7	5543.2	5285.6	5533.3	6085.0	9451.2	12672.1	12312.0	12156.8
65°	8311.5	4925.5	4007.1	3934.4	4363.9	5196.4	8546.1	10795.7	10161.5	9646.1
67.5°	5348.3	3607.4	2979.7	2850.9	3369.5	3815.5	5688.6	6640.0	6240.3	6038.7
70°	3448.8	2348.8	1658.3	1555.9	1757.4	2352.1	3633.8	3871.7	3290.3	3154.8
72.5°	1631.9	1014.2	581.4	479.0	538.5	898.5	1437.0	1546.0	1285.1	1176.0
75°	518.6	373.3	237.8	204.8	194.9	231.2	330.3	254.4	185.0	181.7
77.5°	231.2	221.3	188.3	158.6	138.7	115.6	95.8	79.3	82.6	85.9
80°	191.6	175.1	155.3	138.7	115.6	89.2	69.4	52.9	52.9	56.2
82.5°	168.5	152.0	135.4	115.6	99.1	72.7	52.9	36.3	33.0	33.0
85°	72.7	85.9	92.5	99.1	79.3	59.5	36.3	23.1	19.8	19.8
87.5°	29.7	26.4	23.1	19.8	16.5	16.5	13.2	9.9	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)