

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: P651245

Luminaire Tested: **GALN-SA2D-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9395.6 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

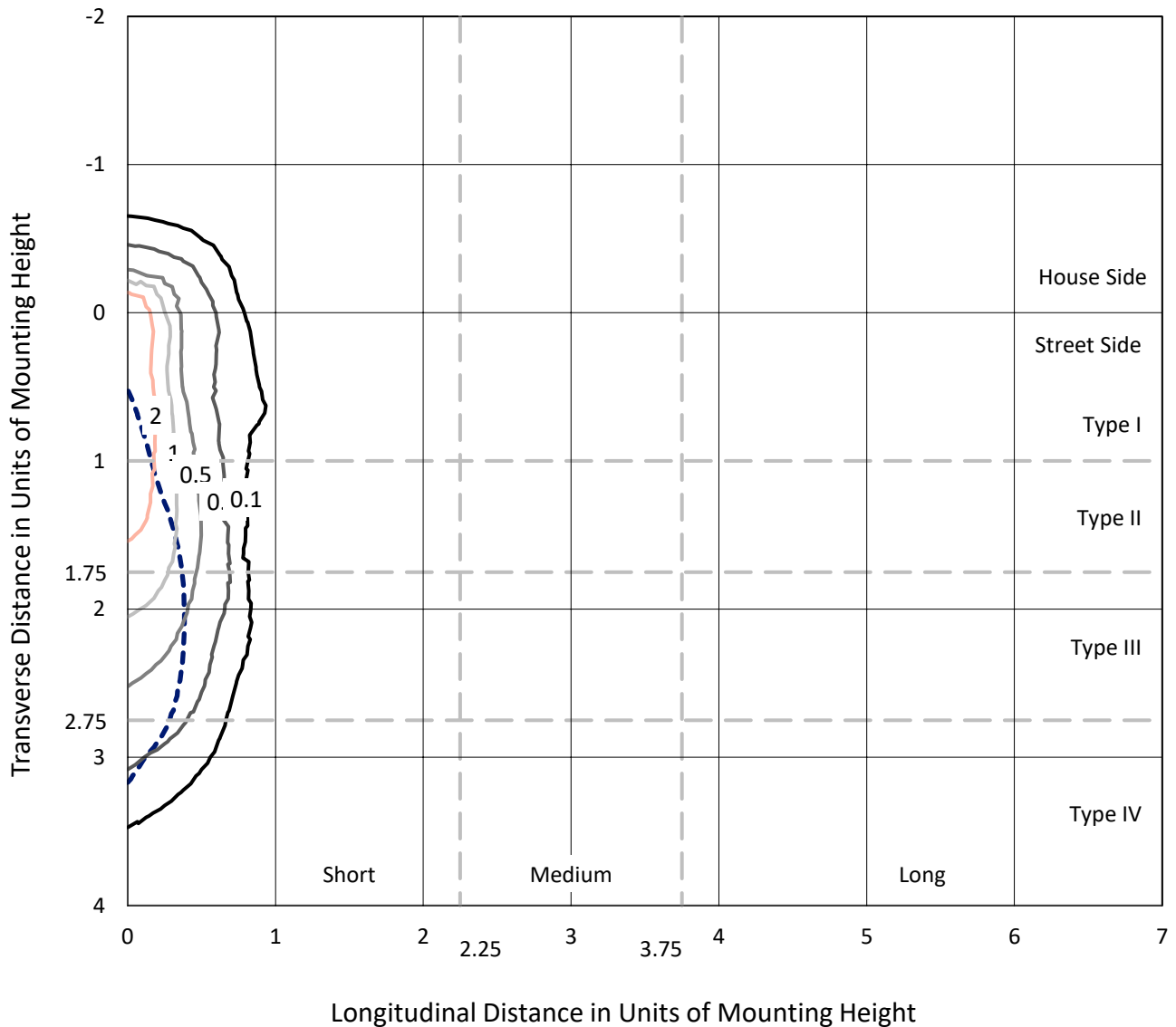
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651245
 CATALOG NUMBER: GALN-SA2D-840-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

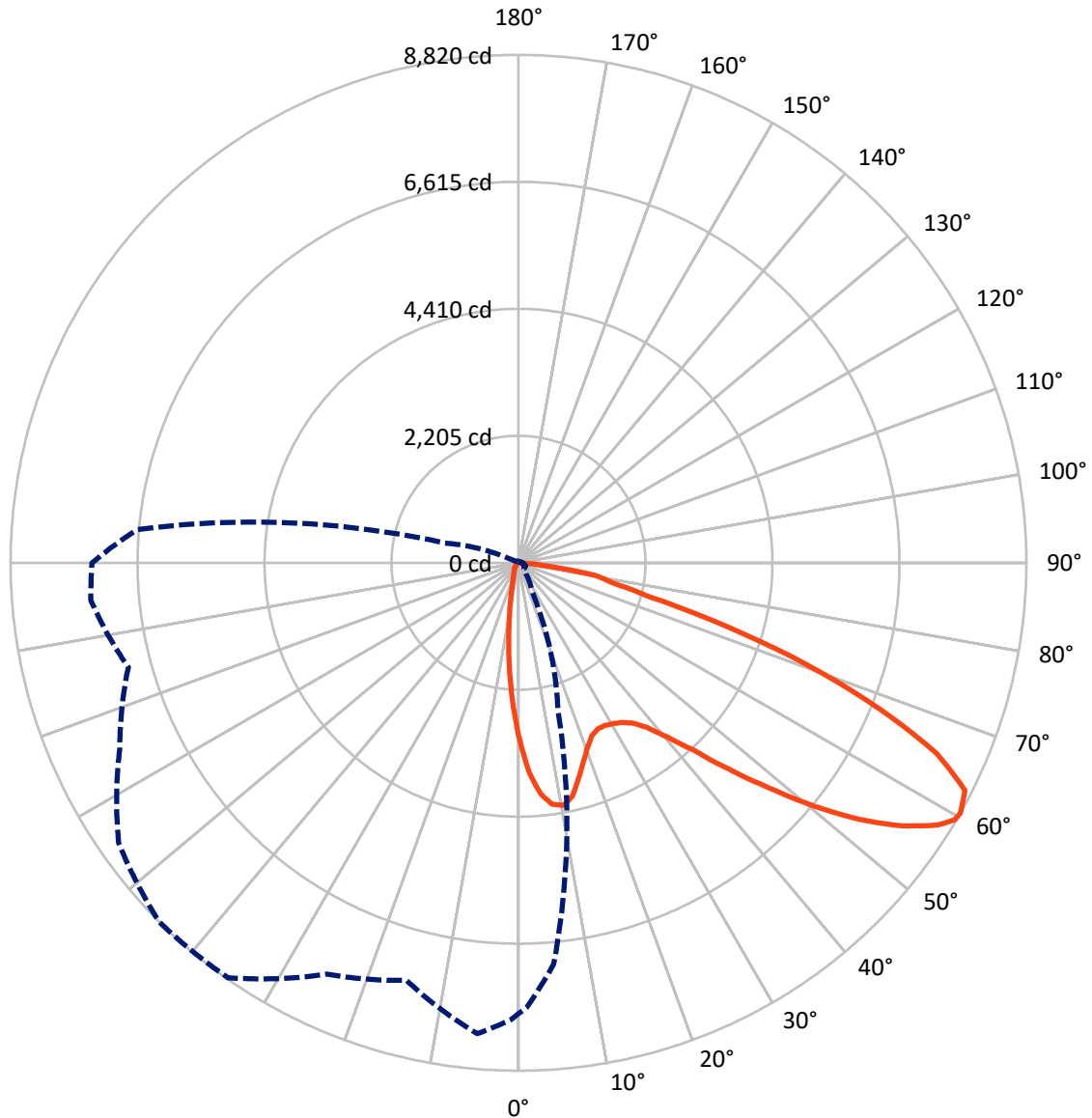
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

REPORT NUMBER: P651245
CATALOG NUMBER: GALN-SA2D-840-U-SLR-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P651245
 CATALOG NUMBER: GALN-SA2D-840-U-SLR-HSS

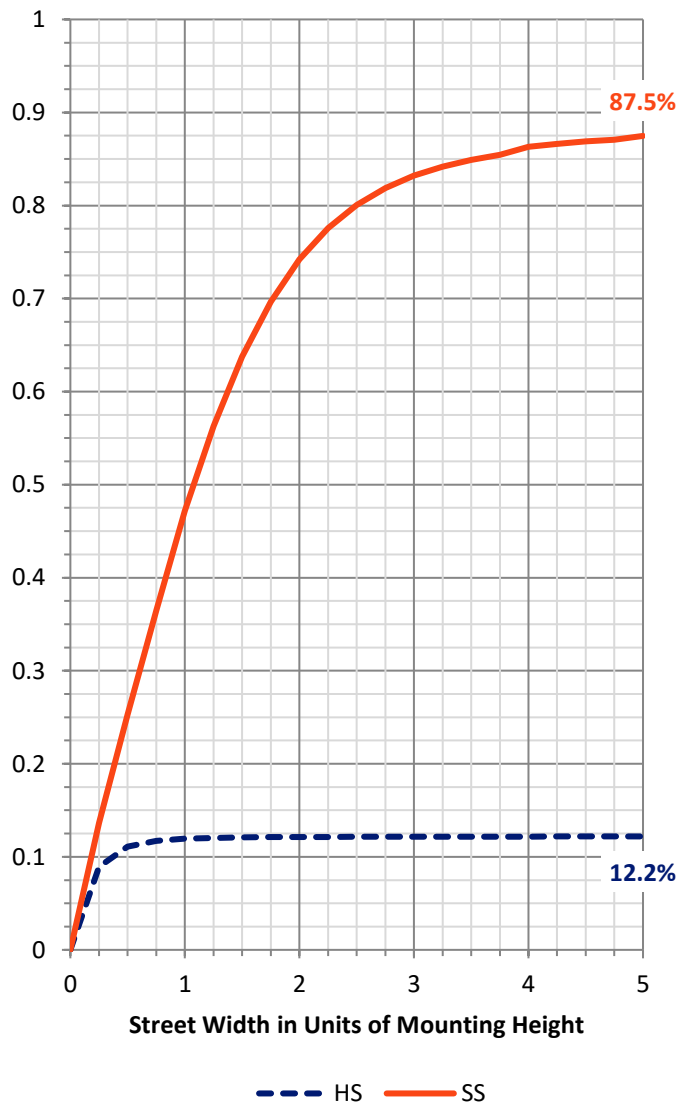
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1158.9	0.0	1158.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	8236.8	0.0	8236.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	9395.6	0.0	9395.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	2.5
10°-20°	458.7	4.9
20°-30°	672.6	7.2
30°-40°	1000.3	10.6
40°-50°	1455.7	15.5
50°-60°	2099.2	22.3
60°-70°	2308.9	24.6
70°-80°	1034.2	11.0
80°-90°	135.1	1.4
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°	9395.6	100.0
0°-180°	9395.6	100.0

Coefficient of Utilization



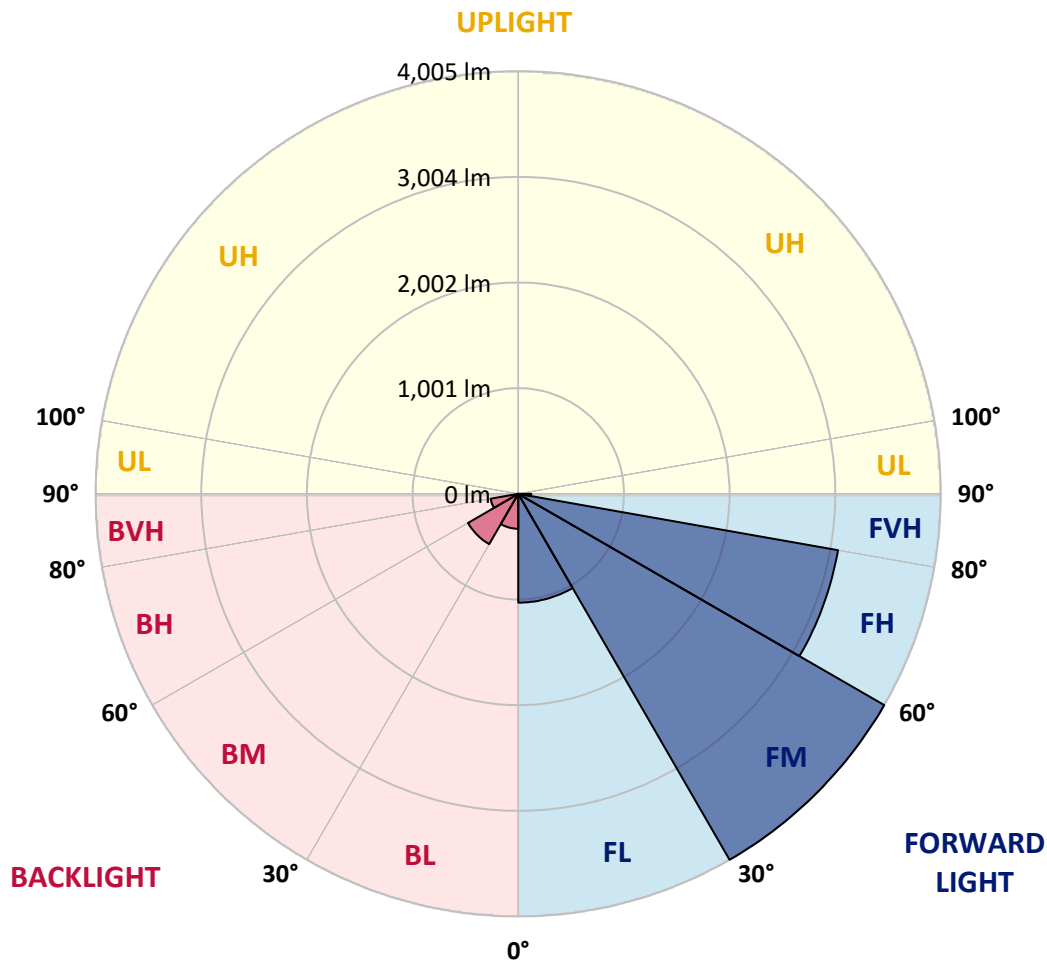
REPORT NUMBER: P651245
 CATALOG NUMBER: GALN-SA2D-840-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.1	11.0			
FM (30°-60°)	4004.7	42.6			
FH (60°-80°)	3077.4	32.8			G2/5000
FVH (80°-90°)	123.6	1.3			G2/225
BL (0°-30°)	331.1	3.5	B1/500		
BM (30°-60°)	550.4	5.9	B1/1000		
BH (60°-80°)	265.7	2.8	B1/500		G1/500
BVH (80°-90°)	11.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P651245

CATALOG NUMBER: GALN-SA2D-840-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4
2.5°	3414.0	3398.9	3364.7	3260.4	3169.6	3051.1	2931.1	2836.9	2779.0	2672.6	2624.0
5°	3307.5	3314.6	3215.4	3001.1	2762.6	2599.7	2421.9	2280.5	2124.8	2026.2	1922.7
7.5°	3029.7	3015.4	2907.6	2609.0	2319.1	2083.3	1858.4	1675.5	1560.6	1468.4	1391.3
10°	2791.9	2781.1	2643.3	2259.1	1947.7	1771.2	1619.1	1459.1	1335.6	1200.6	1092.7
12.5°	2642.6	2618.3	2459.8	2058.3	1804.8	1640.5	1474.9	1308.4	1137.7	1001.3	870.6
15°	2592.6	2557.6	2381.2	1989.0	1713.4	1504.9	1297.0	1105.6	909.2	758.5	659.9
17.5°	2683.3	2625.4	2437.6	1976.9	1604.1	1327.7	1072.0	822.8	618.5	503.5	442.8
20°	2891.1	2824.8	2580.4	1964.8	1482.7	1129.2	814.9	581.4	427.8	365.0	331.4
22.5°	3199.7	3108.3	2791.9	1984.1	1370.6	935.6	588.5	410.7	339.9	300.7	277.1
25°	3570.4	3493.9	3059.7	2052.6	1282.0	783.5	455.0	335.6	286.4	262.1	244.2
27.5°	3976.8	3854.6	3406.0	2134.8	1201.3	665.7	399.2	300.0	255.0	232.9	223.5
30°	4266.0	4171.0	3696.0	2191.9	1100.6	577.1	365.0	295.7	255.7	229.3	212.1
32.5°	4551.7	4430.3	3938.9	2218.3	1027.0	515.7	315.7	257.9	224.3	210.7	193.5
35°	4857.4	4730.2	4181.0	2204.1	972.0	474.9	286.4	230.0	192.1	169.3	152.1
37.5°	5166.6	5032.4	4421.7	2152.6	937.8	458.5	263.6	218.6	181.4	157.9	139.3
40°	5533.7	5354.5	4647.4	2110.5	902.1	449.9	248.5	211.4	173.6	148.5	130.0
42.5°	5833.7	5663.0	4860.9	2088.4	877.8	429.9	248.5	205.7	168.5	140.7	121.4
45°	6117.9	5940.8	5091.6	2106.2	867.7	404.9	251.4	205.0	165.0	135.0	115.7
47.5°	6355.8	6202.2	5328.7	2173.3	854.9	377.8	236.4	215.0	162.8	130.0	110.0
50°	6636.5	6487.9	5642.3	2309.0	832.1	350.7	217.8	231.4	162.1	125.7	105.0
52.5°	7032.1	6871.5	6075.1	2463.3	795.7	309.2	200.7	229.3	159.3	118.6	100.0
55°	7515.7	7385.7	6576.5	2648.3	745.6	262.8	173.6	203.5	150.7	106.4	91.4
57.5°	7825.6	7714.9	6952.1	2728.3	669.2	215.0	152.8	170.7	137.8	94.9	81.4
59°	7862.1	7762.1	7030.7	2701.9	619.2	196.4	142.8	146.4	134.3	88.6	75.7
60°	7831.3	7727.8	6999.3	2650.4	572.8	183.6	134.3	130.0	135.0	85.0	71.4
62.5°	7634.3	7457.1	6694.3	2389.8	500.6	168.5	119.3	106.4	119.3	76.4	63.6
65°	7253.5	6987.9	6090.8	2022.7	472.1	160.0	101.4	89.3	90.7	67.1	55.0
67.5°	6588.6	6253.7	5287.3	1643.4	459.9	160.7	85.7	80.0	70.0	57.1	48.5
70°	5537.3	5203.0	4242.4	1352.0	454.2	160.7	72.8	68.5	58.5	47.9	42.1
72.5°	3923.9	3563.9	2861.8	1062.0	409.2	160.0	62.1	62.1	47.9	40.0	34.3
75°	2216.9	2219.7	1799.1	751.3	339.9	132.1	50.0	49.3	35.0	30.7	25.7
77.5°	1292.0	1269.2	1212.7	322.9	157.9	60.0	35.0	30.0	24.3	22.1	18.6
80°	664.2	546.4	532.1	117.2	56.4	37.8	24.3	17.2	15.7	14.3	12.9
82.5°	196.4	197.1	175.7	47.1	31.5	25.0	12.1	9.3	8.6	7.8	7.8
85°	13.5	8.6	10.0	14.3	19.3	10.0	0.7	2.1	2.1	2.9	3.5
87.5°	1.4	0.7	0.0	0.0	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



REPORT NUMBER: P651245

CATALOG NUMBER: GALN-SA2D-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4
2.5°	2570.4	2601.9	2543.4	2544.8	2496.2	2511.9	2454.7	2473.3	2439.7	2465.5	2541.2
5°	1934.0	1941.2	1894.1	1879.1	1886.2	1915.5	1927.0	1874.8	1897.0	1853.4	1850.5
7.5°	1362.8	1371.3	1344.2	1340.6	1392.0	1379.8	1402.0	1348.5	1297.7	1319.9	1279.2
10°	1058.5	1022.7	967.1	951.3	941.3	947.7	947.7	899.2	892.0	872.8	902.1
12.5°	835.6	792.1	739.2	667.8	649.9	648.5	622.1	579.2	565.7	549.3	573.5
15°	607.1	589.2	545.0	504.9	464.2	456.4	413.5	378.5	332.1	325.7	323.5
17.5°	427.1	400.7	400.0	377.1	353.6	337.8	297.8	257.9	239.9	237.8	237.8
20°	320.0	310.7	295.7	292.8	285.7	267.9	232.1	210.7	202.1	202.8	205.7
22.5°	269.3	262.8	249.3	242.8	239.9	224.3	197.8	183.6	179.3	179.3	180.0
25°	240.7	235.0	220.0	210.0	206.4	194.9	174.3	163.6	160.0	160.0	160.0
27.5°	219.2	212.1	196.4	187.9	181.4	168.5	155.7	145.0	141.4	141.4	142.1
30°	204.3	196.4	182.2	170.7	160.7	149.3	138.6	129.3	125.0	124.3	125.0
32.5°	184.3	177.1	162.8	155.7	144.2	130.7	122.1	113.5	109.2	110.0	109.2
35°	143.6	141.4	131.4	133.6	127.2	115.7	107.8	98.6	93.6	92.8	94.3
37.5°	130.7	122.1	110.7	111.4	109.2	105.0	92.2	82.2	78.5	78.5	79.3
40°	120.7	112.1	99.2	92.8	93.6	93.6	80.0	69.3	65.7	65.0	66.4
42.5°	112.1	103.5	89.3	78.5	75.7	79.3	67.9	57.1	53.6	52.1	53.6
45°	106.4	97.1	80.7	68.5	60.0	64.3	55.7	47.1	42.9	42.9	42.1
47.5°	100.7	92.2	74.3	59.3	50.0	47.9	45.8	37.8	33.6	32.9	33.6
50°	95.7	87.1	67.1	51.4	42.1	37.2	37.2	30.0	27.2	25.7	26.4
52.5°	90.7	81.4	60.7	45.8	36.4	30.0	26.4	24.3	22.1	21.4	22.1
55°	83.6	74.3	54.2	39.3	31.5	25.0	20.7	20.0	18.6	17.2	18.6
57.5°	75.0	66.4	47.9	33.6	25.0	19.3	17.2	16.4	15.0	14.3	14.3
59°	70.0	62.1	44.3	29.3	22.1	17.2	15.7	15.0	13.5	12.1	12.9
60°	67.1	60.7	42.1	27.2	20.0	15.7	14.3	13.5	12.1	11.4	12.1
62.5°	59.3	54.2	37.2	22.1	15.7	11.4	10.0	10.7	10.0	9.3	10.0
65°	52.1	47.9	31.5	17.2	12.1	7.8	7.1	9.3	8.6	7.8	8.6
67.5°	46.4	41.5	26.4	12.9	8.6	4.3	5.0	7.8	7.8	7.1	7.8
70°	40.0	35.7	21.4	9.3	4.3	2.1	3.5	5.7	7.1	6.4	7.1
72.5°	32.9	27.8	16.4	6.4	2.1	0.0	2.1	5.0	7.1	6.4	7.1
75°	25.7	20.7	12.1	3.5	0.0	0.0	0.7	4.3	7.1	6.4	7.1
77.5°	18.6	15.0	7.1	0.7	0.0	0.0	0.7	4.3	7.1	6.4	7.1
80°	12.1	10.7	2.9	0.0	0.0	0.0	0.7	4.3	7.1	7.1	7.8
82.5°	7.8	5.7	0.0	0.0	0.0	0.0	1.4	5.7	7.8	8.6	8.6
85°	3.5	0.0	0.0	0.0	0.0	0.0	2.9	7.1	9.3	9.3	9.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.0	8.6	10.7	10.7
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: P651245

CATALOG NUMBER: GALN-SA2D-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4
2.5°	2554.0	2599.0	2662.6	2760.4	2839.7	2964.7	3060.4	3191.1	3323.2	3363.2	3425.4
5°	1879.8	1937.7	2081.9	2213.3	2296.2	2560.4	2727.6	2991.1	3227.5	3341.1	3464.7
7.5°	1305.6	1374.1	1484.1	1667.7	1842.0	2056.9	2326.9	2628.3	2974.7	3136.8	3311.1
10°	916.4	1002.1	1157.0	1307.8	1527.0	1731.3	1997.6	2330.5	2712.6	2904.0	3122.5
12.5°	578.5	655.0	859.9	1029.2	1302.7	1539.9	1785.5	2086.9	2529.7	2726.2	2955.4
15°	330.7	394.9	490.6	707.8	1011.3	1324.8	1631.3	1981.2	2436.2	2678.3	2926.1
17.5°	246.4	263.6	306.4	429.2	705.7	1072.0	1489.2	1949.1	2499.7	2784.0	3066.8
20°	207.1	218.6	238.5	287.1	449.9	825.6	1350.6	1954.8	2705.4	3062.6	3331.1
22.5°	185.7	192.8	209.2	240.7	307.1	601.4	1188.4	1988.4	2954.7	3404.6	3714.6
25°	162.8	172.2	186.4	213.5	255.7	417.1	1028.5	2063.4	3304.0	3838.9	4130.3
27.5°	145.0	153.6	167.9	192.8	224.3	318.6	842.1	2127.6	3672.5	4276.0	4514.6
30°	127.2	135.7	150.0	170.0	198.6	257.9	641.3	2165.5	4030.3	4603.8	4787.4
32.5°	112.1	119.3	132.9	150.7	174.3	218.6	505.7	2126.2	4303.8	4901.7	5024.5
35°	97.1	105.7	117.2	133.6	154.2	186.4	420.7	1990.5	4538.8	5208.1	5252.3
37.5°	81.4	91.4	103.5	118.6	135.0	171.4	337.8	1840.5	4790.3	5590.1	5517.3
40°	68.5	77.9	89.3	105.7	120.7	157.1	260.0	1680.6	5061.6	5948.6	5806.5
42.5°	55.7	65.7	79.3	94.3	119.3	137.2	201.4	1514.8	5305.2	6260.8	6068.0
45°	44.3	52.8	67.1	86.5	118.6	117.8	155.7	1351.3	5488.7	6483.6	6262.9
47.5°	35.0	42.1	56.4	84.3	109.2	100.0	125.0	1249.9	5681.5	6684.4	6412.2
50°	27.8	35.0	48.5	87.9	95.7	85.7	105.0	1266.3	5868.0	6786.4	6473.6
52.5°	23.5	30.7	42.1	69.3	73.6	75.0	92.2	1342.0	6108.7	6895.7	6595.8
55°	20.7	27.2	35.7	48.5	57.1	67.1	84.3	1397.0	6430.8	7130.0	6865.0
57.5°	16.4	23.5	32.1	41.5	47.1	58.5	77.9	1401.3	6722.2	7430.7	7222.8
59°	15.0	21.4	30.0	39.3	42.1	52.8	73.6	1364.9	6732.9	7475.6	7387.1
60°	13.5	20.7	28.6	36.4	40.0	50.0	70.0	1322.7	6635.7	7404.2	7455.0
62.5°	11.4	17.8	25.0	29.3	34.3	41.5	60.7	1169.9	6165.1	7080.7	7329.2
65°	10.0	15.7	21.4	24.3	28.6	35.7	53.6	936.4	5645.1	6642.2	6969.3
67.5°	9.3	14.3	18.6	20.7	25.0	32.9	47.9	661.4	4971.7	6085.8	6428.6
70°	8.6	13.5	16.4	19.3	22.1	27.8	40.7	385.7	3829.6	5110.2	5472.3
72.5°	8.6	12.9	14.3	16.4	19.3	25.0	37.8	208.6	2618.3	3898.2	4366.0
75°	8.6	12.1	12.9	14.3	17.2	22.9	33.6	109.2	1692.7	2708.3	3342.6
77.5°	8.6	11.4	12.9	13.5	16.4	20.0	29.3	68.5	1127.8	1897.0	2259.1
80°	9.3	11.4	12.1	13.5	15.7	18.6	24.3	45.8	662.8	1141.3	1374.9
82.5°	10.0	11.4	12.9	14.3	16.4	17.8	21.4	28.6	305.7	754.9	854.2
85°	10.7	12.1	13.5	15.0	17.2	17.8	20.0	20.7	50.0	340.7	460.7
87.5°	11.4	12.9	14.3	15.7	18.6	18.6	18.6	18.6	17.2	36.4	92.8
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: P651245

CATALOG NUMBER: GALN-SA2D-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4
2.5°	3503.9	3584.6	3641.0	3655.3	3614.6	3596.0	3544.6	3464.7	3416.1	3414.0
5°	3692.5	3881.7	4013.2	4035.3	3956.7	3823.9	3666.1	3462.5	3343.2	3307.5
7.5°	3660.4	3991.7	4203.1	4233.8	4101.7	3848.2	3542.5	3214.6	3084.7	3029.7
10°	3528.2	3932.4	4234.6	4283.1	4106.7	3749.6	3361.1	2995.4	2834.0	2791.9
12.5°	3415.4	3823.9	4092.5	4159.6	4026.0	3669.6	3252.5	2854.7	2681.9	2642.6
15°	3366.1	3695.4	3859.6	3893.9	3871.7	3619.7	3241.1	2833.2	2635.4	2592.6
17.5°	3415.4	3586.0	3606.8	3641.8	3691.1	3614.6	3351.0	2949.7	2736.1	2683.3
20°	3544.6	3491.1	3405.4	3420.3	3533.2	3635.3	3546.7	3207.5	2947.5	2891.1
22.5°	3764.7	3467.5	3273.3	3260.4	3403.2	3704.6	3833.9	3556.8	3255.3	3199.7
25°	4034.6	3526.8	3224.6	3196.8	3352.5	3806.0	4146.0	3984.6	3655.3	3570.4
27.5°	4328.9	3649.6	3224.6	3197.6	3348.2	3896.0	4413.1	4363.1	4069.6	3976.8
30°	4490.3	3751.0	3271.1	3240.4	3401.1	3948.2	4555.9	4699.5	4381.0	4266.0
32.5°	4634.5	3891.7	3361.8	3304.0	3511.8	4025.3	4683.8	4985.2	4628.8	4551.7
35°	4767.4	4042.4	3486.8	3419.7	3657.5	4131.0	4825.2	5285.2	4973.8	4857.4
37.5°	4913.8	4217.4	3681.7	3624.6	3901.1	4336.7	4993.1	5679.4	5313.0	5166.6
40°	5073.1	4420.3	4002.5	3978.2	4288.2	4569.6	5205.2	6100.1	5700.1	5533.7
42.5°	5235.1	4653.8	4395.2	4435.3	4726.7	4896.0	5423.0	6423.6	6017.3	5833.7
45°	5382.3	4952.3	4905.9	5103.8	5238.0	5214.5	5584.4	6651.5	6293.6	6117.9
47.5°	5568.0	5387.3	5523.7	5828.7	5832.3	5560.9	5706.5	6837.8	6531.5	6355.8
50°	5775.8	5900.8	6321.5	6632.2	6548.6	5901.5	5849.4	7058.6	6777.2	6636.5
52.5°	6016.5	6475.8	7058.6	7403.5	7208.5	6272.9	6087.2	7297.1	7167.1	7032.1
55°	6296.5	6867.9	7793.5	8068.5	7872.0	6734.3	6448.6	7620.6	7607.8	7515.7
57.5°	6612.9	7282.1	8219.2	8591.2	8416.3	7275.7	6953.6	7925.6	7877.1	7825.6
59°	6862.9	7494.9	8407.0	8792.7	8686.9	7655.0	7292.8	8115.6	7939.2	7862.1
60°	7014.3	7639.2	8476.3	8819.8	8795.5	7880.6	7507.8	8208.4	7938.5	7831.3
62.5°	7463.5	7891.4	8449.9	8699.1	8794.1	8313.5	8138.4	8310.6	7791.4	7634.3
65°	7623.5	7807.8	8012.0	7981.3	8062.8	8291.3	8541.3	8198.5	7477.1	7253.5
67.5°	7312.1	6891.4	6963.6	6758.6	6718.6	7371.4	8377.7	7649.9	6862.1	6588.6
70°	6163.7	5279.5	5243.0	5337.3	5078.8	5968.0	7522.8	6593.6	5847.2	5537.3
72.5°	4851.6	3731.0	3424.0	3771.0	3763.2	4553.1	6249.4	4678.8	3950.3	3923.9
75°	3815.4	2597.6	2279.8	2336.2	2444.8	3296.1	4977.4	2971.1	2432.6	2216.9
77.5°	2561.2	1840.5	1717.0	1647.7	1764.8	2116.2	3149.0	1611.3	1364.2	1292.0
80°	1476.3	1337.0	1518.4	1378.4	1441.3	1333.4	1566.3	739.2	613.5	664.2
82.5°	960.6	761.4	811.3	602.8	824.2	831.3	502.8	218.6	185.0	196.4
85°	600.6	357.1	200.7	142.8	284.3	522.8	157.1	13.5	15.7	13.5
87.5°	155.7	59.3	25.0	37.2	45.8	40.7	36.4	2.1	0.7	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)