

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: P652065

Luminaire Tested: **GALN-SA8A-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23129.2 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

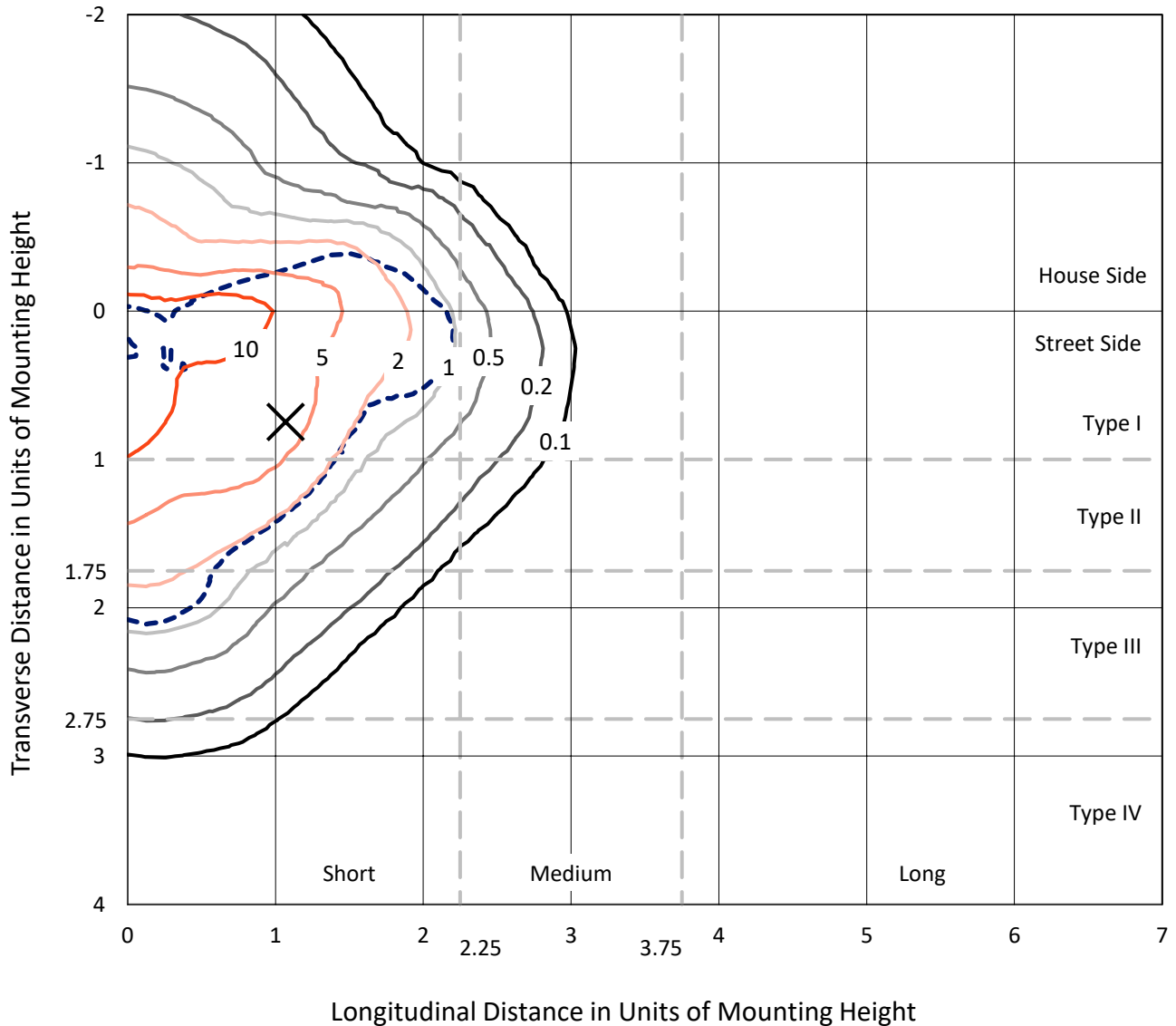
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652065
 CATALOG NUMBER: GALN-SA8A-840-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

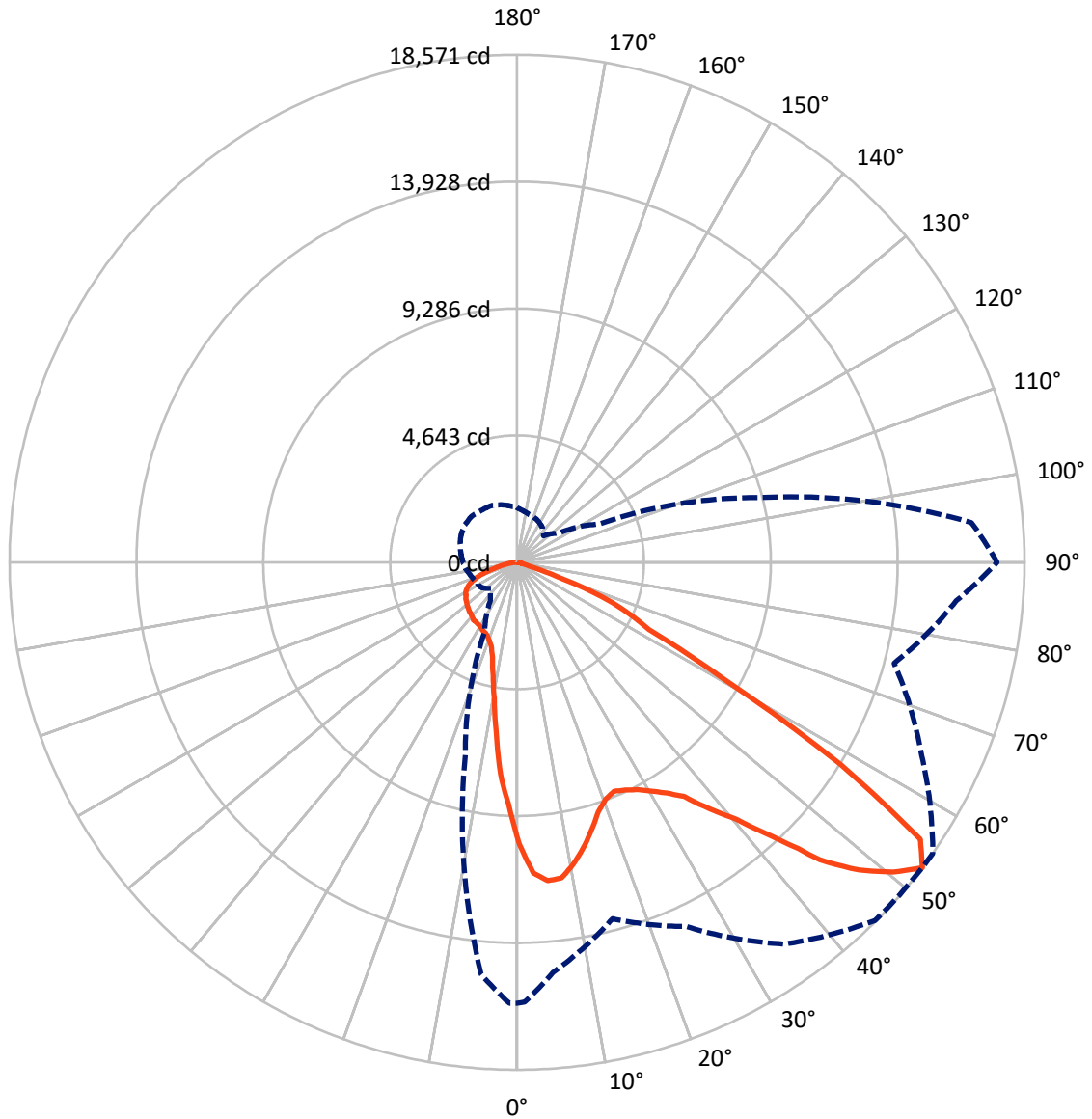
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

REPORT NUMBER: P652065
CATALOG NUMBER: GALN-SA8A-840-U-SLL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P652065
 CATALOG NUMBER: GALN-SA8A-840-U-SLL-GRSWH

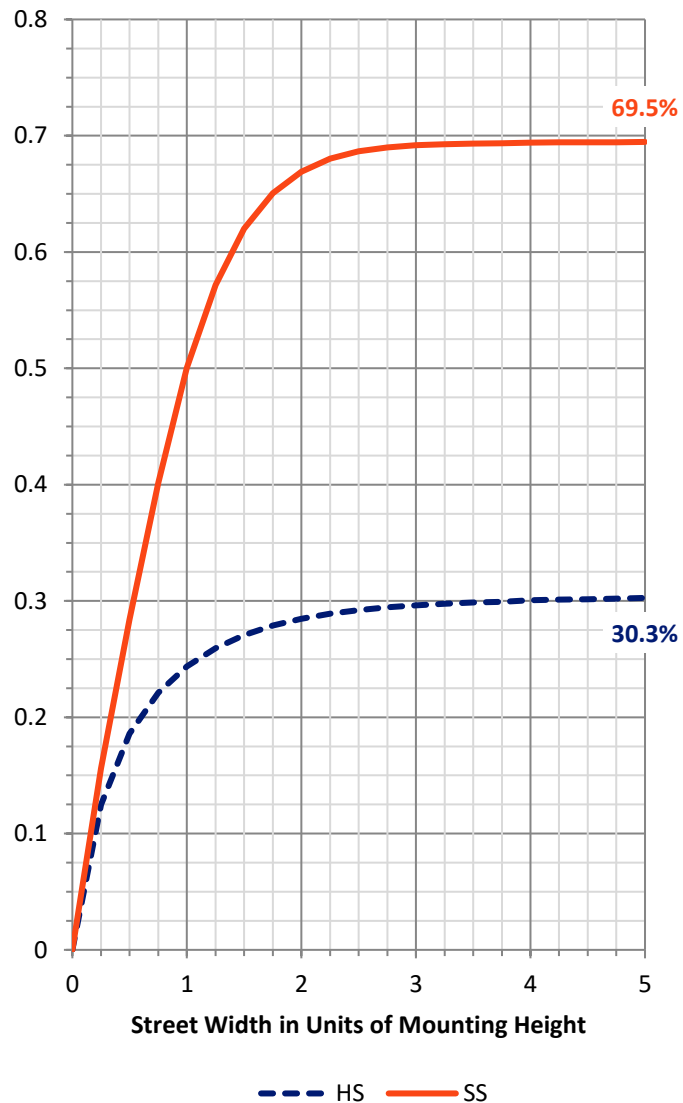
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7055.7	0.0	7055.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	16073.5	0.0	16073.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	23129.2	0.0	23129.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.2	3.4
10°-20°	1699.5	7.3
20°-30°	2577.0	11.1
30°-40°	3723.4	16.1
40°-50°	4975.5	21.5
50°-60°	5553.8	24.0
60°-70°	3046.5	13.2
70°-80°	658.6	2.8
80°-90°	106.5	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°	23129.2	100.0
0°-180°	23129.2	100.0

Coefficient of Utilization



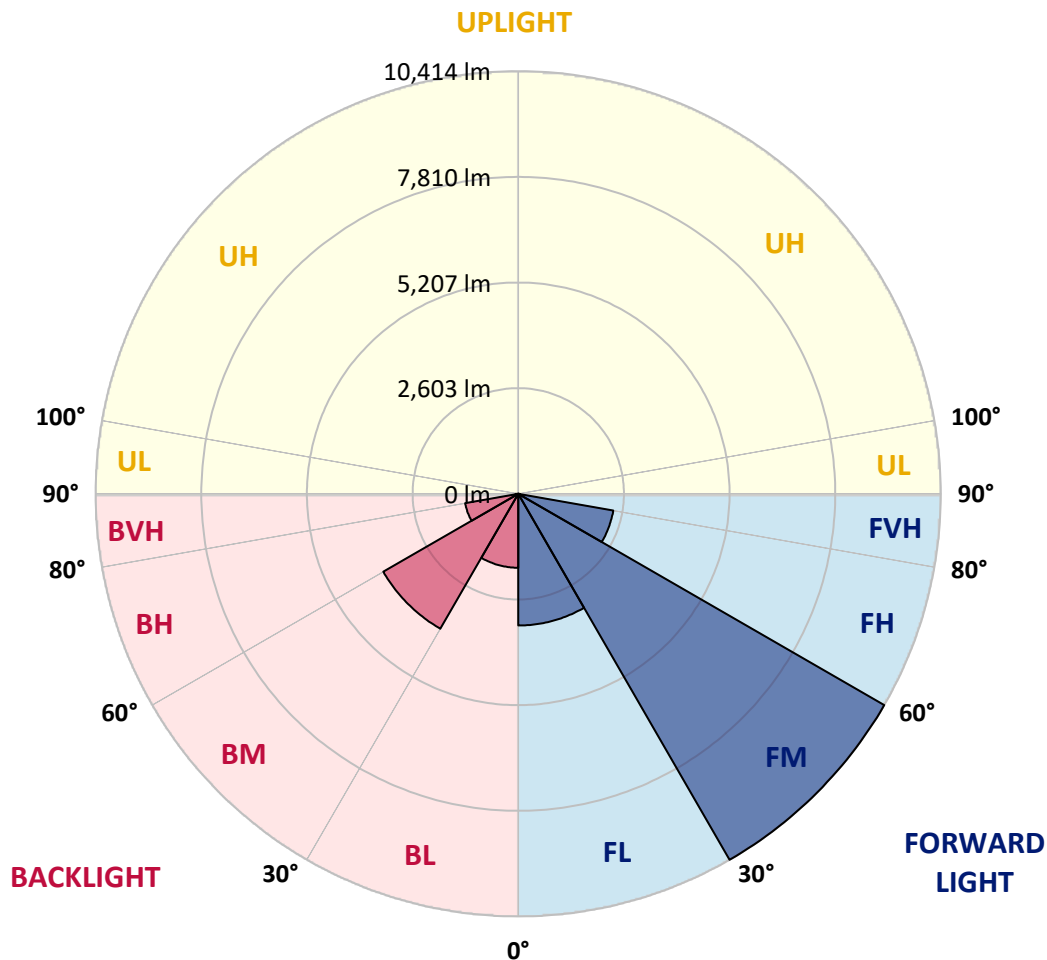
REPORT NUMBER: P652065
 CATALOG NUMBER: GALN-SA8A-840-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3243.1	14.0			
FM (30°-60°)	10413.8	45.0			
FH (60°-80°)	2377.1	10.3			G2/5000
FVH (80°-90°)	39.4	0.2			G1/100
BL (0°-30°)	1821.7	7.9	B3/2500		
BM (30°-60°)	3838.9	16.6	B3/5000		
BH (60°-80°)	1328.0	5.7	B3/2500		G3/2500
BVH (80°-90°)	67.1	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 II Short





REPORT NUMBER: P652065

CATALOG NUMBER: GALN-SA8A-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4
2.5°	10827.4	10766.6	10820.6	11077.3	11225.8	11327.2	11391.3	11381.3	11138.0	10901.6	10901.6
5°	10509.9	10432.3	10543.7	11124.6	11708.8	11759.5	11843.9	11705.5	11347.4	10915.2	10374.8
7.5°	9591.3	9648.7	9834.5	10597.7	11357.6	11739.2	11840.5	11664.9	11084.0	10276.9	9483.2
10°	8797.6	8932.8	9361.7	10185.7	10884.8	11381.3	11492.7	11246.1	10786.8	9797.3	9088.1
12.5°	8524.1	8439.7	8915.9	9739.9	10408.6	10675.4	10726.0	10742.9	10432.3	9554.2	8689.5
15°	8490.3	8544.4	8915.9	9540.6	9952.6	9966.2	10050.6	10182.3	10222.9	9719.6	8875.3
17.5°	8976.7	8912.5	9294.1	9790.6	9594.7	9398.8	9419.0	9608.2	9942.6	9861.5	9459.6
20°	9696.0	9841.2	10141.8	10091.2	9564.3	9067.8	9071.2	9250.2	9908.7	10449.1	10273.5
22.5°	10891.5	11033.4	11256.3	10645.0	9564.3	8969.9	8855.1	9098.2	10124.9	11148.2	11192.1
25°	11982.4	12242.4	12303.2	11583.8	10043.8	9061.1	8986.8	9226.5	10341.0	11830.4	12245.8
27.5°	12975.3	13069.8	13336.7	12188.4	10310.7	9121.9	9115.1	9422.5	10614.6	12171.5	13188.1
30°	13758.8	13748.7	13900.6	12570.0	10736.2	9462.9	9135.4	9716.2	10972.6	12735.5	14059.3
32.5°	14292.4	14407.3	14728.0	13100.3	10915.2	9787.2	9530.5	10060.7	11408.2	13002.3	14674.0
35°	15231.3	15430.5	15025.2	13394.0	11482.5	10108.0	9807.4	10530.2	11624.4	13292.8	15427.1
37.5°	16116.1	15964.1	15552.1	13552.8	11850.7	10702.4	10422.1	11438.6	12296.4	13924.3	15926.9
40°	16683.4	16680.1	15947.2	13681.1	12110.7	11610.8	11594.0	12360.6	13120.5	14322.8	16487.6
42.5°	16930.0	17166.4	16109.4	13667.6	12657.8	12711.9	13053.0	13738.5	13704.8	14403.8	16474.1
44°	17267.7	17409.5	16389.7	13698.0	13022.5	13454.8	14258.7	14694.3	14214.8	14359.9	16457.2
45°	17254.2	17264.4	15991.1	13738.5	13333.3	14076.2	14795.6	15531.8	14663.8	14265.4	16680.1
47.5°	16859.1	16744.2	15653.4	13437.9	14302.6	15717.6	16382.8	16828.7	15217.7	14062.8	16403.1
50°	16078.9	15947.2	14832.7	13309.6	14505.1	16737.5	17656.1	17818.2	15721.0	13863.5	16129.6
52.5°	16133.0	16095.8	15065.8	13502.1	14707.8	17058.3	18530.8	18571.3	16291.7	14282.3	16133.0
55°	17098.9	16970.5	15734.4	13741.9	14559.2	16683.4	17973.6	17902.6	16099.2	14029.0	16430.2
57.5°	15646.6	15731.1	14809.1	12792.9	12742.2	13562.9	14130.3	13954.6	13434.6	12661.2	15285.3
60°	12624.1	12863.9	12951.7	10699.0	9614.9	9192.8	9023.9	8713.3	8801.1	10401.8	13427.8
62.5°	10827.4	10813.8	11364.3	9699.3	6298.5	5417.0	5336.0	5407.0	6420.1	10239.8	13150.9
65°	8584.9	8814.5	8983.4	8220.2	4984.8	4022.3	4018.9	4468.1	5555.6	8557.8	10618.0
67.5°	5450.9	5751.4	5960.8	5258.4	3333.3	2863.9	2786.2	3326.6	3850.0	5612.9	6393.1
70°	3073.3	3215.1	3309.7	3032.7	2120.9	1486.0	1398.2	1526.5	2326.9	3633.9	3789.2
72.5°	1185.4	1249.6	1377.9	1388.1	800.4	479.5	388.4	466.1	979.4	1438.7	1371.2
75°	182.3	195.9	276.9	330.9	229.7	175.6	185.8	192.5	273.6	371.5	310.7
77.5°	87.8	87.8	84.4	98.0	114.8	125.0	135.1	148.6	162.1	179.0	172.2
80°	57.4	57.4	57.4	67.5	84.4	101.3	114.8	121.6	128.3	141.9	135.1
82.5°	37.2	37.2	37.2	50.6	67.5	84.4	91.2	108.1	121.6	141.9	131.7
85°	20.3	20.3	20.3	33.8	50.6	70.9	67.5	54.1	30.4	3.4	6.7
87.5°	6.7	6.7	6.7	6.7	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: P652065

CATALOG NUMBER: GALN-SA8A-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4
2.5°	10618.0	10462.6	10449.1	10131.7	9847.9	9709.5	9598.1	9287.3	9354.9	9175.9	9172.5
5°	10104.6	9787.2	9273.9	8851.7	8429.5	8345.1	7977.0	7656.1	7666.3	7436.6	7477.2
7.5°	9182.6	8963.1	8338.3	7676.4	7115.8	6717.3	6369.4	6160.1	5893.2	5802.1	5754.8
10°	8598.4	8328.3	7625.8	6794.9	6166.8	5954.0	5619.7	5434.0	5160.4	5025.3	4930.7
12.5°	8341.7	7946.6	7068.5	6224.2	5805.4	5585.9	5302.3	4964.5	4640.3	4515.3	4343.1
15°	8368.7	7895.9	6906.4	5994.6	5491.4	5065.8	4812.5	4437.7	4106.7	3887.2	3762.2
17.5°	8777.4	8203.3	6980.7	5819.0	5096.2	4562.6	4066.2	3660.9	3397.5	3232.0	3191.5
20°	9743.2	8963.1	7105.7	5535.3	4701.1	4035.8	3424.5	3002.4	2799.7	2796.3	2799.7
22.5°	10547.1	9773.7	7359.0	5366.4	4305.9	3360.3	2752.4	2617.4	2576.8	2661.3	2671.4
25°	11631.1	10685.5	7794.6	5278.6	3941.2	2863.9	2489.0	2438.3	2434.9	2543.0	2546.5
27.5°	12742.2	11482.5	8054.7	5021.9	3569.7	2607.2	2330.2	2320.2	2374.1	2489.0	2478.8
30°	13498.7	12151.3	8524.1	4714.6	3130.7	2381.0	2266.1	2279.6	2354.0	2441.8	2455.2
32.5°	14380.2	12809.8	8645.6	4545.8	2860.5	2191.8	2110.7	2141.2	2235.7	2374.1	2448.5
35°	15390.0	13275.9	8831.4	4316.1	2759.2	2046.6	2006.0	2039.8	2154.6	2245.9	2326.9
37.5°	16136.4	14099.9	8865.2	4137.1	2647.7	1965.5	1901.3	2012.8	2080.4	2208.7	2249.3
40°	16690.2	14697.7	8953.0	4025.6	2559.9	1860.9	1860.9	1935.1	2026.3	2144.5	2225.6
42.5°	17044.8	15133.3	9017.2	3924.4	2391.0	1830.4	1813.5	1887.9	2009.5	2124.3	2161.5
44°	17260.9	15319.1	8953.0	3829.7	2343.8	1793.3	1793.3	1857.4	1952.0	2087.1	2131.0
45°	17315.0	15552.1	8811.2	3826.4	2286.3	1749.4	1742.6	1864.2	1928.4	2093.8	2120.9
47.5°	17524.4	15839.1	8828.1	3718.3	2147.9	1644.7	1762.9	1817.0	1874.3	2019.6	2110.7
50°	17517.6	16018.2	8790.9	3559.6	2046.6	1526.5	1722.4	1783.2	1840.6	1989.2	2026.3
52.5°	17565.0	16686.9	9132.0	3306.3	1864.2	1374.5	1587.3	1722.4	1793.3	1918.2	1995.9
55°	17541.2	17068.4	9469.7	3117.2	1607.6	1283.4	1472.5	1631.2	1732.5	1864.2	1901.3
57.5°	16021.6	15086.0	8763.9	2762.6	1330.6	1175.3	1310.4	1536.7	1664.9	1800.1	1847.3
60°	13090.1	11627.8	7227.2	2033.1	1094.2	1080.7	1219.2	1506.2	1560.3	1678.5	1759.5
62.5°	12097.2	10199.2	5731.2	1553.5	935.5	989.5	1124.6	1361.0	1445.4	1590.7	1664.9
65°	9466.4	6774.7	3549.4	1050.3	824.0	888.2	1016.5	1192.1	1330.6	1465.7	1553.5
67.5°	5606.2	3701.4	1756.2	736.2	719.3	786.9	918.6	1050.3	1209.0	1357.6	1401.5
70°	3053.0	1820.3	749.8	560.6	611.2	672.0	800.4	891.5	1043.6	1158.4	1232.7
72.5°	979.4	553.9	374.8	415.4	466.1	537.0	614.7	726.1	834.2	901.7	962.5
75°	236.4	233.0	266.8	290.5	337.7	391.7	455.9	513.3	597.8	662.0	715.9
77.5°	165.5	179.0	206.0	239.8	256.7	276.9	317.5	361.4	398.5	445.8	479.5
80°	128.3	138.4	158.7	175.6	192.5	209.4	229.7	246.5	270.2	300.6	317.5
82.5°	121.6	128.3	148.6	158.7	152.0	148.6	162.1	168.9	172.2	182.3	192.5
85°	10.1	0.0	6.7	23.6	57.4	84.4	91.2	91.2	87.8	94.5	94.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	13.5	10.1
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: P652065

CATALOG NUMBER: GALN-SA8A-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4
2.5°	9132.0	9017.2	9061.1	9115.1	9037.5	8858.4	8905.7	8885.5	9067.8	9054.3	9236.7
5°	7656.1	7477.2	7497.4	7760.8	7676.4	7767.6	7585.2	7561.6	7595.4	7612.2	7642.7
7.5°	5859.5	5835.9	6038.5	6261.3	6366.0	6258.0	6079.0	6038.5	6001.3	5927.0	6095.9
10°	4782.2	4788.9	4775.4	4944.2	5062.5	5038.9	4930.7	4917.2	4846.3	4819.3	4913.9
12.5°	4268.8	4177.6	4133.7	4079.7	4170.9	4231.7	4184.4	4150.6	4154.0	4187.8	4201.3
15°	3772.4	3714.9	3620.4	3559.6	3603.5	3573.1	3556.3	3623.8	3606.9	3600.2	3681.1
17.5°	3215.1	3262.4	3255.7	3188.1	3245.5	3221.9	3218.5	3171.2	3107.1	3059.7	3086.8
20°	2847.0	2934.8	3002.4	3005.7	3036.1	3032.7	2982.1	2836.9	2789.6	2779.4	2786.2
22.5°	2715.3	2762.6	2843.6	2958.5	2958.5	2904.4	2843.6	2674.7	2630.8	2583.6	2563.3
25°	2610.6	2701.8	2806.5	2820.0	2874.0	2823.3	2725.4	2641.0	2549.8	2485.7	2485.7
27.5°	2556.6	2657.9	2735.5	2759.2	2833.5	2793.0	2691.6	2583.6	2475.5	2472.1	2414.7
30°	2532.9	2627.5	2678.2	2735.5	2769.3	2705.2	2674.7	2559.9	2451.9	2424.9	2330.2
32.5°	2462.0	2597.1	2691.6	2678.2	2705.2	2678.2	2634.3	2539.7	2418.1	2357.3	2347.1
35°	2381.0	2516.0	2617.4	2688.3	2705.2	2647.7	2620.7	2492.4	2326.9	2296.5	2191.8
37.5°	2337.1	2418.1	2543.0	2657.9	2681.5	2651.1	2559.9	2428.2	2262.7	2229.0	2137.7
40°	2283.0	2387.7	2485.7	2580.2	2651.1	2576.8	2472.1	2343.8	2269.5	2168.2	2141.2
42.5°	2242.4	2360.7	2441.8	2546.5	2627.5	2529.6	2408.0	2320.2	2215.4	2147.9	2070.2
44°	2229.0	2337.1	2391.0	2519.4	2586.9	2512.7	2411.3	2320.2	2198.5	2137.7	2070.2
45°	2181.7	2330.2	2387.7	2502.5	2559.9	2499.1	2370.8	2279.6	2191.8	2117.6	2046.6
47.5°	2134.4	2235.7	2333.7	2424.9	2465.4	2445.1	2337.1	2225.6	2120.9	2077.0	2009.5
50°	2120.9	2222.2	2313.4	2397.9	2445.1	2404.6	2306.6	2198.5	2077.0	2006.0	1948.7
52.5°	2053.4	2178.3	2279.6	2306.6	2367.4	2343.8	2269.5	2151.3	2036.5	1975.7	1928.4
55°	1955.4	2087.1	2225.6	2259.3	2347.1	2310.1	2198.5	2087.1	1989.2	1898.0	1837.2
57.5°	1918.2	2046.6	2181.7	2225.6	2279.6	2218.8	2191.8	2073.7	1918.2	1871.0	1776.4
60°	1823.7	1985.8	2097.3	2198.5	2201.9	2185.1	2137.7	2002.7	1874.3	1786.5	1719.0
62.5°	1749.4	1901.3	1989.2	2083.7	2141.2	2093.8	2046.6	1921.6	1783.2	1685.2	1607.6
65°	1641.3	1779.8	1854.1	1911.5	1975.7	1968.9	1887.9	1796.7	1651.5	1573.8	1499.5
67.5°	1475.9	1597.4	1698.7	1752.8	1793.3	1783.2	1722.4	1658.2	1509.6	1432.0	1377.9
70°	1276.6	1401.5	1465.7	1496.1	1536.7	1556.9	1509.6	1479.2	1347.5	1246.2	1195.6
72.5°	1026.7	1107.8	1202.3	1229.3	1246.2	1259.7	1259.7	1232.7	1097.6	1057.1	969.3
75°	756.5	820.6	891.5	891.5	922.0	925.4	932.1	915.3	813.9	759.8	739.6
77.5°	513.3	560.6	618.1	641.7	662.0	658.6	655.1	607.9	553.9	530.3	510.0
80°	334.4	381.6	408.6	439.0	459.3	455.9	462.7	428.9	405.3	364.7	371.5
82.5°	199.2	236.4	263.4	300.6	300.6	310.7	310.7	300.6	276.9	256.7	256.7
85°	94.5	125.0	141.9	165.5	179.0	182.3	162.1	138.4	114.8	104.7	114.8
87.5°	16.9	23.6	33.8	30.4	37.2	33.8	33.8	33.8	33.8	27.0	30.4
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: P652065

CATALOG NUMBER: GALN-SA8A-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4	10317.4
2.5°	9169.2	9338.0	9456.2	9652.1	9989.8	10260.0	10536.9	10742.9	10766.6	10827.4
5°	7754.1	7845.3	8145.8	8537.6	8814.5	9270.4	9564.3	10097.9	10297.1	10509.9
7.5°	6055.4	6204.0	6605.8	6869.3	7477.2	8047.9	8638.9	9297.5	9560.9	9591.3
10°	5106.4	5322.5	5596.0	6018.2	6349.2	6984.1	7720.3	8453.1	8747.0	8797.6
12.5°	4485.0	4761.9	5126.7	5430.6	5748.1	6301.9	7007.7	7912.8	8294.4	8524.1
15°	3887.2	4174.2	4576.1	4998.3	5278.6	5940.5	6771.3	7791.3	8287.7	8490.3
17.5°	3272.5	3539.3	3870.3	4326.2	4890.2	5633.2	6734.1	8196.5	8740.3	8976.7
20°	2745.7	2894.3	3279.3	3748.7	4454.5	5319.2	6747.7	8794.3	9591.3	9696.0
22.5°	2539.7	2573.5	2725.4	3157.7	3931.1	4998.3	6987.4	9642.0	10547.1	10891.5
25°	2381.0	2374.1	2414.7	2705.2	3549.4	4873.3	7223.9	10422.1	11607.5	11982.4
27.5°	2293.2	2225.6	2229.0	2502.5	3279.3	4670.7	7527.8	11317.1	12809.8	12975.3
30°	2249.3	2235.7	2195.2	2306.6	2985.5	4366.7	7578.5	12198.5	13519.0	13758.8
32.5°	2222.2	2090.5	2039.8	2080.4	2708.5	4035.8	7767.6	12779.4	14397.1	14292.4
35°	2087.1	1968.9	1935.1	1975.7	2512.7	3850.0	7642.7	13285.9	15055.7	15231.3
37.5°	2036.5	1931.8	1864.2	1830.4	2330.2	3694.7	7578.5	14066.1	15693.9	16116.1
40°	1989.2	1877.7	1796.7	1762.9	2188.5	3488.6	7558.2	14667.3	16430.2	16683.4
42.5°	1935.1	1864.2	1773.1	1712.3	2016.2	3282.7	7325.2	14853.0	16656.4	16930.0
44°	1918.2	1810.2	1715.6	1695.4	1948.7	3178.0	7277.9	15021.9	16852.3	17267.7
45°	1901.3	1800.1	1692.0	1664.9	1925.0	3120.5	7213.8	15062.4	17176.5	17254.2
47.5°	1854.1	1789.9	1685.2	1610.9	1874.3	2995.6	7021.3	14832.7	16845.6	16859.1
50°	1817.0	1742.6	1634.6	1489.3	1806.8	2890.9	7109.1	14748.3	16048.6	16078.9
52.5°	1776.4	1664.9	1604.2	1354.3	1695.4	2803.1	7294.8	15129.9	16139.7	16133.0
55°	1729.1	1607.6	1459.0	1239.5	1509.6	2691.6	7743.9	15883.0	16984.0	17098.9
57.5°	1654.8	1550.1	1337.4	1138.1	1296.8	2478.8	7598.8	14441.0	15626.4	15646.6
60°	1556.9	1459.0	1212.4	1060.4	1063.9	1955.4	6794.9	11252.9	12330.2	12624.1
62.5°	1462.3	1408.3	1107.8	949.0	905.1	1556.9	5744.6	9351.5	10584.2	10827.4
65°	1350.9	1219.2	1016.5	864.5	776.7	1090.9	4069.5	6987.4	8257.3	8584.9
67.5°	1209.0	1067.2	895.0	759.8	665.3	729.5	2100.6	3971.6	5258.4	5450.9
70°	1057.1	925.4	753.1	641.7	537.0	503.2	925.4	1894.6	2874.0	3073.3
72.5°	867.9	746.4	601.1	506.6	401.9	347.8	310.7	506.6	1019.9	1185.4
75°	628.1	543.7	452.5	361.4	283.7	222.9	182.3	152.0	168.9	182.3
77.5°	462.7	395.1	334.4	256.7	199.2	158.7	125.0	94.5	91.2	87.8
80°	361.4	320.8	266.8	206.0	155.3	118.2	87.8	64.2	57.4	57.4
82.5°	283.7	263.4	219.5	168.9	128.3	94.5	64.2	43.9	37.2	37.2
85°	108.1	108.1	158.7	138.4	98.0	67.5	43.9	23.6	20.3	20.3
87.5°	27.0	27.0	27.0	27.0	23.6	20.3	20.3	10.1	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)