

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: P651405

Luminaire Tested: **GALN-SA5D-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651405
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-SA5D-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA 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: 24265.4 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

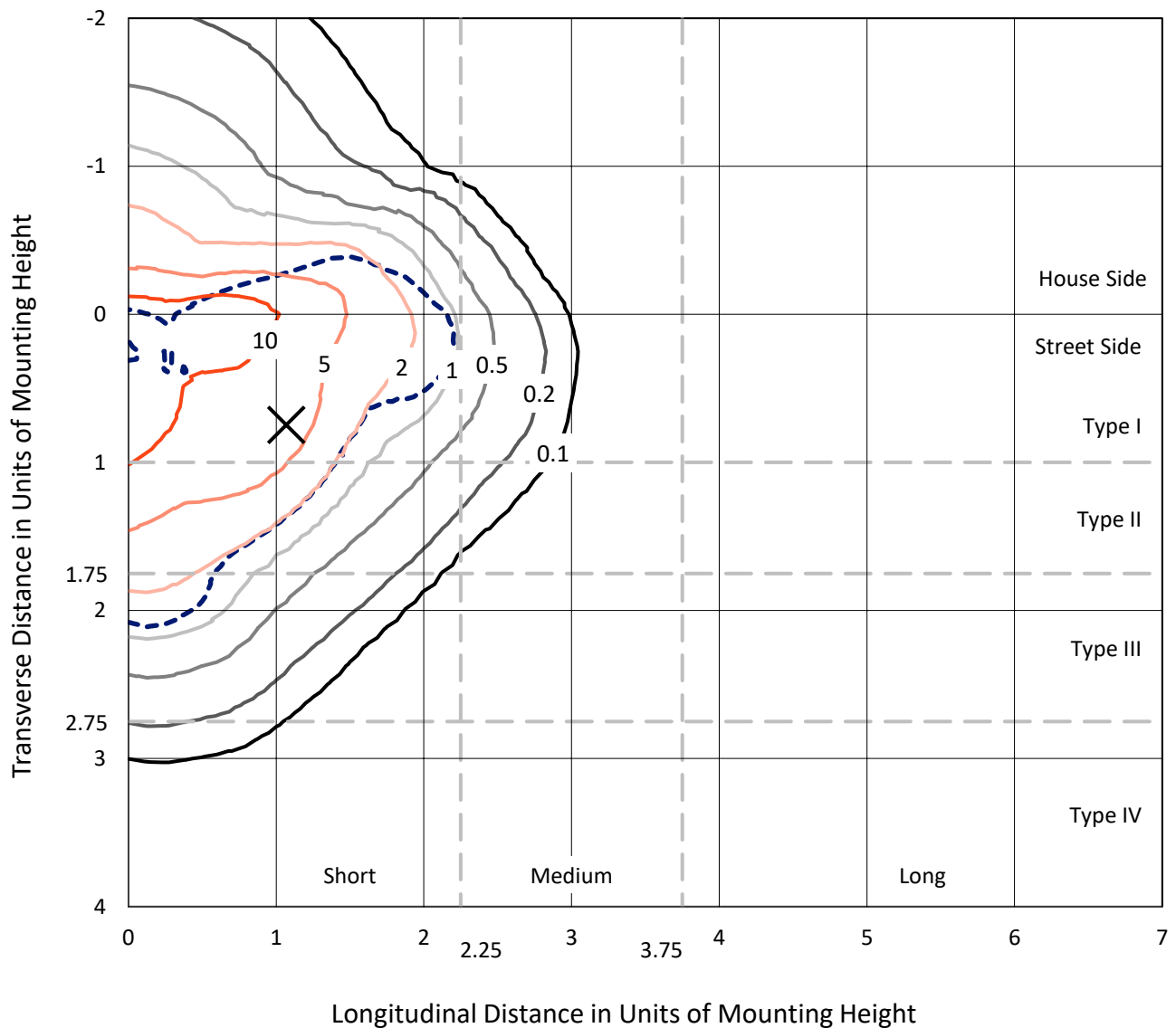
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651405
 CATALOG NUMBER: GALN-SA5D-840-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

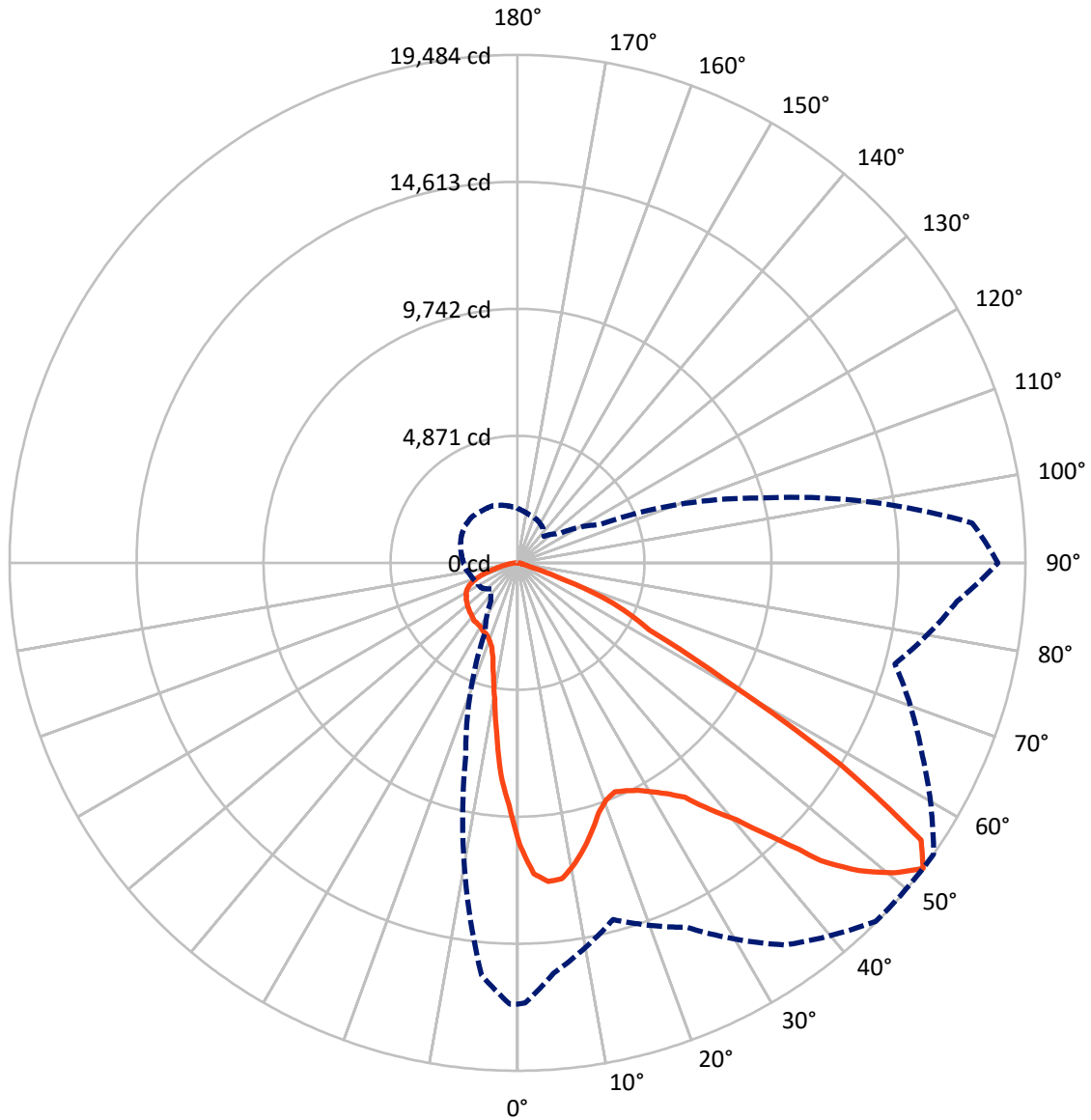
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

REPORT NUMBER: P651405
CATALOG NUMBER: GALN-SA5D-840-U-SLL-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651405
 CATALOG NUMBER: GALN-SA5D-840-U-SLL-GRSWH

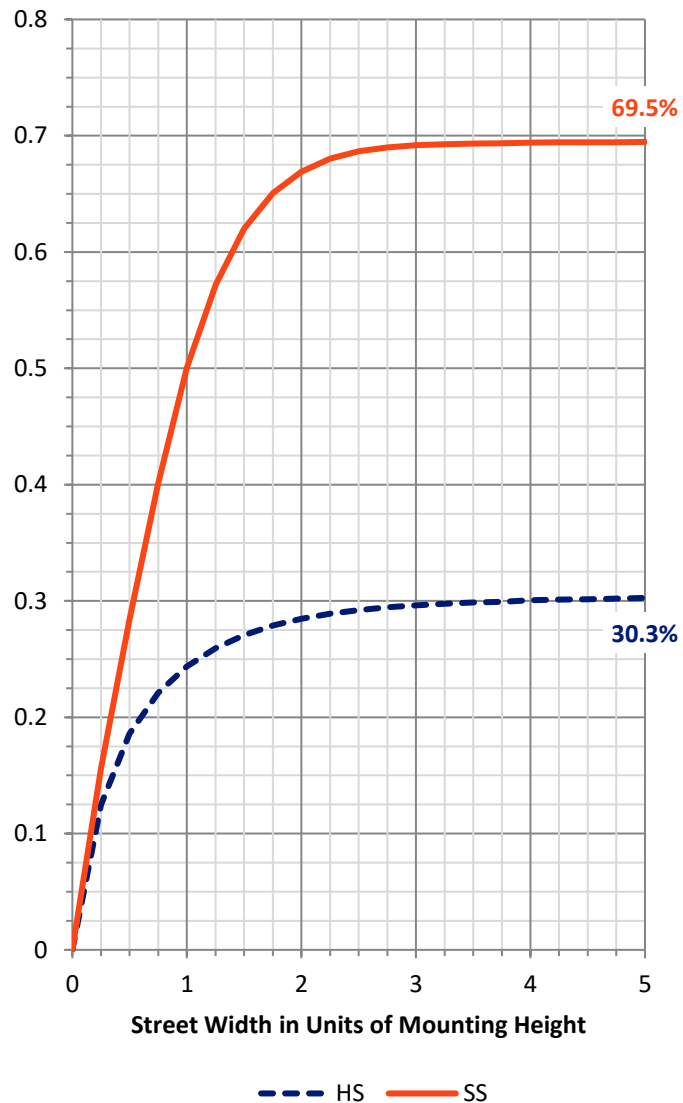
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7402.3	0.0	7402.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	16863.1	0.0	16863.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	24265.4	0.0	24265.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.0	3.4
10°-20°	1783.0	7.3
20°-30°	2703.6	11.1
30°-40°	3906.3	16.1
40°-50°	5219.9	21.5
50°-60°	5826.6	24.0
60°-70°	3196.1	13.2
70°-80°	691.0	2.8
80°-90°	111.8	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°	24265.4	100.0
0°-180°	24265.4	100.0

Coefficient of Utilization

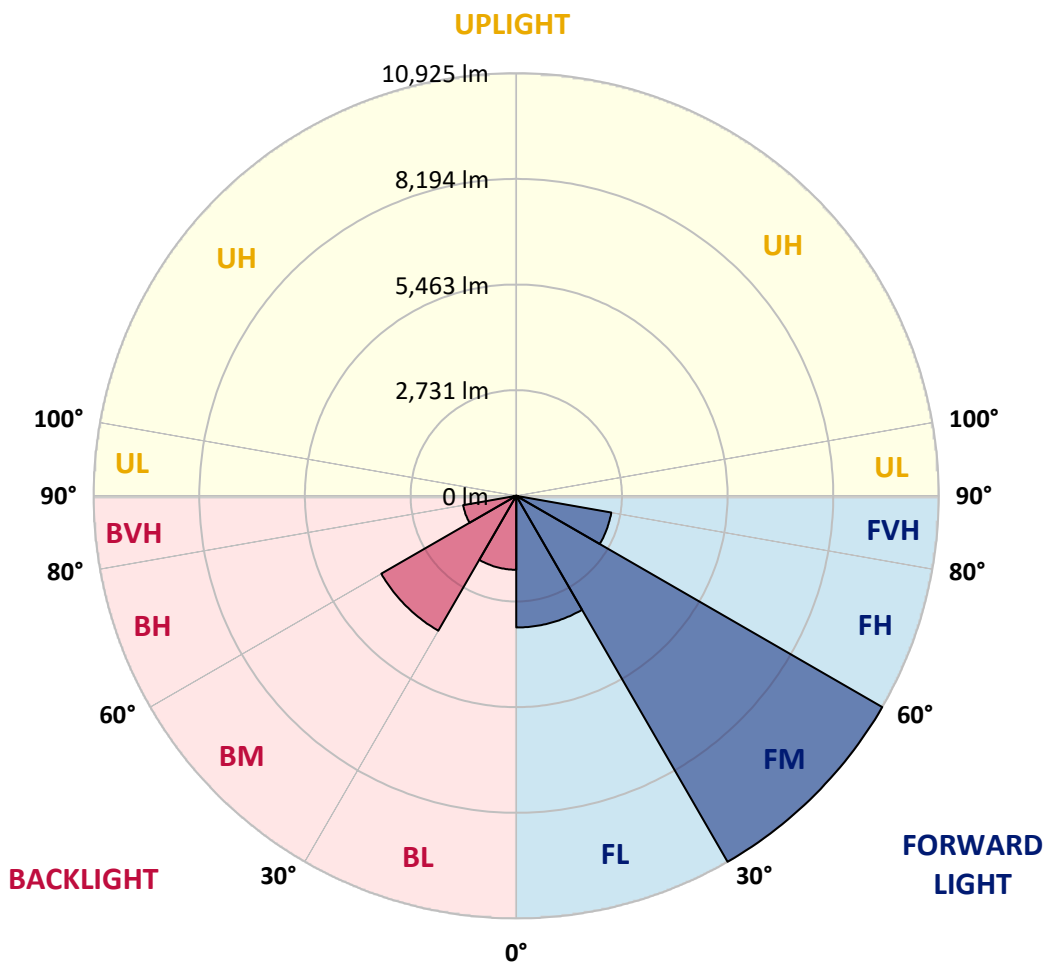


REPORT NUMBER: P651405
 CATALOG NUMBER: GALN-SA5D-840-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3402.4	14.0			
FM (30°-60°)	10925.4	45.0			
FH (60°-80°)	2493.9	10.3			G2/5000
FVH (80°-90°)	41.4	0.2			G1/100
BL (0°-30°)	1911.2	7.9	B3/2500		
BM (30°-60°)	4027.4	16.6	B3/5000		
BH (60°-80°)	1393.3	5.7	B3/2500		G3/2500
BVH (80°-90°)	70.4	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: P651405

CATALOG NUMBER: GALN-SA5D-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3
2.5°	11359.2	11295.5	11352.2	11621.4	11777.4	11883.7	11950.9	11940.3	11685.2	11437.2	11437.2
5°	11026.2	10944.7	11061.6	11671.1	12284.0	12337.1	12425.7	12280.5	11904.9	11451.4	10884.5
7.5°	10062.5	10122.7	10317.6	11118.3	11915.5	12315.9	12422.2	12238.0	11628.5	10781.7	9949.1
10°	9229.8	9371.5	9821.5	10686.1	11419.5	11940.3	12057.2	11798.6	11316.7	10278.6	9534.5
12.5°	8942.9	8854.3	9353.9	10218.3	10919.9	11199.8	11252.9	11270.7	10944.7	10023.5	9116.4
15°	8907.4	8964.1	9353.9	10009.3	10441.6	10455.7	10544.3	10682.6	10725.0	10197.1	9311.3
17.5°	9417.6	9350.3	9750.6	10271.5	10066.0	9860.5	9881.8	10080.1	10430.9	10345.9	9924.3
20°	10172.3	10324.6	10640.0	10586.8	10034.1	9513.3	9516.8	9704.6	10395.5	10962.4	10778.2
22.5°	11426.6	11575.4	11809.2	11167.9	10034.1	9410.5	9290.0	9545.2	10622.3	11695.9	11741.9
25°	12571.0	12843.8	12907.6	12152.9	10537.2	9506.2	9428.3	9679.8	10849.1	12411.6	12847.4
27.5°	13612.7	13711.9	13991.8	12787.2	10817.1	9570.0	9562.8	9885.3	11136.0	12769.4	13835.9
30°	14434.7	14424.1	14583.4	13187.5	11263.6	9927.8	9584.1	10193.6	11511.6	13361.1	14750.0
32.5°	14994.5	15115.0	15451.5	13743.8	11451.4	10267.9	9998.6	10555.0	11968.7	13641.0	15394.8
35°	15979.5	16188.5	15763.4	14052.0	12046.6	10604.6	10289.2	11047.5	12195.4	13945.7	16185.0
37.5°	16907.8	16748.3	16316.1	14218.5	12432.8	11228.2	10934.1	12000.6	12900.5	14608.3	16709.3
40°	17503.0	17499.4	16730.6	14353.2	12705.7	12181.2	12163.6	12967.8	13765.0	15026.4	17297.5
42.5°	17761.7	18009.7	16900.7	14339.0	13279.6	13336.3	13694.2	14413.4	14378.0	15111.4	17283.3
44°	18116.0	18264.8	17194.7	14370.9	13662.3	14115.8	14959.0	15416.1	14913.0	15065.3	17265.6
45°	18101.8	18112.4	16776.7	14413.4	13988.3	14767.7	15522.4	16294.8	15384.2	14966.1	17499.4
47.5°	17687.2	17566.8	16422.4	14098.1	15005.1	16489.7	17187.7	17655.4	15965.3	14753.6	17209.0
50°	16868.8	16730.6	15561.4	13963.5	15217.7	17559.7	18523.4	18693.5	16493.2	14544.5	16921.9
52.5°	16925.5	16886.5	15805.8	14165.4	15430.3	17896.3	19441.1	19483.6	17092.0	14983.8	16925.5
55°	17938.8	17804.2	16507.4	14416.9	15274.4	17503.0	18856.5	18782.1	16890.1	14718.1	17237.3
57.5°	16415.3	16503.9	15536.5	13421.4	13368.2	14229.1	14824.4	14640.2	14094.6	13283.2	16036.2
60°	13244.2	13495.8	13587.9	11224.6	10087.3	9644.3	9467.2	9141.2	9233.3	10912.8	14087.4
62.5°	11359.2	11345.1	11922.6	10175.8	6607.9	5683.1	5598.1	5672.5	6735.5	10742.8	13796.9
65°	9006.6	9247.6	9424.7	8624.0	5229.7	4219.9	4216.4	4687.6	5828.5	8978.3	11139.5
67.5°	5718.6	6033.9	6253.6	5516.6	3497.0	3004.6	2923.1	3490.0	4039.2	5888.7	6707.1
70°	3224.2	3373.1	3472.2	3181.8	2225.1	1559.0	1466.9	1601.5	2441.2	3812.4	3975.4
72.5°	1243.7	1311.0	1445.6	1456.2	839.7	503.1	407.5	489.0	1027.5	1509.3	1438.5
75°	191.3	205.5	290.6	347.2	240.9	184.3	194.9	201.9	287.0	389.7	326.0
77.5°	92.1	92.1	88.6	102.8	120.4	131.1	141.7	155.9	170.1	187.8	180.7
80°	60.2	60.2	60.2	70.9	88.6	106.3	120.4	127.6	134.6	148.8	141.7
82.5°	38.9	38.9	38.9	53.2	70.9	88.6	95.7	113.4	127.6	148.8	138.2
85°	21.3	21.3	21.3	35.4	53.2	74.4	70.9	56.7	31.9	3.5	7.1
87.5°	7.1	7.1	7.1	7.1	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: P651405

CATALOG NUMBER: GALN-SA5D-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3
2.5°	11139.5	10976.6	10962.4	10629.4	10331.8	10186.4	10069.5	9743.6	9814.5	9626.7	9623.1
5°	10601.1	10267.9	9729.4	9286.5	8843.6	8755.1	8368.9	8032.2	8042.9	7802.0	7844.4
7.5°	9633.7	9403.5	8748.0	8053.5	7465.4	7047.2	6682.3	6462.7	6182.8	6087.1	6037.5
10°	9020.8	8737.3	8000.3	7128.7	6469.7	6246.5	5895.7	5700.9	5413.9	5272.1	5173.0
12.5°	8751.5	8337.0	7415.8	6529.9	6090.6	5860.3	5562.7	5208.4	4868.2	4737.2	4556.5
15°	8779.9	8283.8	7245.7	6289.0	5761.1	5314.7	5048.9	4655.7	4308.4	4078.1	3947.1
17.5°	9208.5	8606.2	7323.6	6104.8	5346.6	4786.7	4265.9	3840.8	3564.4	3390.7	3348.3
20°	10221.9	9403.5	7454.7	5807.2	4932.0	4234.0	3592.8	3149.8	2937.3	2933.7	2937.3
22.5°	11065.2	10253.8	7720.5	5630.0	4517.5	3525.4	2887.7	2745.9	2703.4	2792.0	2802.6
25°	12202.5	11210.4	8177.5	5537.9	4134.9	3004.6	2611.3	2558.2	2554.6	2668.0	2671.5
27.5°	13368.2	12046.6	8450.4	5268.6	3745.1	2735.3	2444.8	2434.1	2490.8	2611.3	2600.6
30°	14161.9	12748.1	8942.9	4946.2	3284.4	2497.9	2377.4	2391.6	2469.6	2561.7	2575.8
32.5°	15086.6	13439.1	9070.4	4769.1	3001.0	2299.5	2214.4	2246.3	2345.5	2490.8	2568.8
35°	16146.0	13928.0	9265.3	4528.1	2894.7	2147.2	2104.6	2140.0	2260.5	2356.1	2441.2
37.5°	16929.0	14792.5	9300.7	4340.3	2777.8	2062.1	1994.8	2111.7	2182.6	2317.2	2359.7
40°	17510.1	15419.7	9392.8	4223.4	2685.6	1952.3	1952.3	2030.2	2125.9	2249.8	2335.0
42.5°	17882.1	15876.7	9460.2	4117.1	2508.5	1920.3	1902.7	1980.6	2108.1	2228.6	2267.6
44°	18108.9	16071.6	9392.8	4017.9	2458.9	1881.4	1881.4	1948.7	2047.9	2189.6	2235.7
45°	18165.6	16316.1	9244.0	4014.3	2398.7	1835.3	1828.2	1955.8	2023.1	2196.8	2225.1
47.5°	18385.3	16617.2	9261.7	3901.0	2253.5	1725.5	1849.5	1906.2	1966.4	2118.8	2214.4
50°	18378.2	16805.0	9222.7	3734.5	2147.2	1601.5	1807.0	1870.8	1931.0	2086.9	2125.9
52.5°	18427.7	17506.6	9580.6	3468.7	1955.8	1442.1	1665.3	1807.0	1881.4	2012.5	2094.0
55°	18402.9	17906.9	9934.9	3270.3	1686.5	1346.4	1544.8	1711.4	1817.7	1955.8	1994.8
57.5°	16808.6	15827.1	9194.4	2898.3	1396.0	1233.0	1374.7	1612.1	1746.8	1888.5	1938.1
60°	13733.1	12199.0	7582.3	2132.9	1148.0	1133.8	1279.1	1580.2	1636.9	1761.0	1846.0
62.5°	12691.4	10700.2	6012.6	1629.9	981.4	1038.1	1179.8	1427.8	1516.5	1668.8	1746.8
65°	9931.4	7107.5	3723.8	1101.9	864.5	931.8	1066.5	1250.7	1396.0	1537.7	1629.9
67.5°	5881.6	3883.2	1842.5	772.4	754.7	825.5	963.7	1101.9	1268.4	1424.3	1470.4
70°	3202.9	1909.7	786.6	588.2	641.3	705.1	839.7	935.4	1094.8	1215.3	1293.2
72.5°	1027.5	581.0	393.3	435.8	489.0	563.4	644.9	761.8	875.1	946.0	1009.8
75°	248.0	244.5	279.9	304.7	354.3	411.0	478.4	538.6	627.1	694.4	751.2
77.5°	173.6	187.8	216.1	251.5	269.3	290.6	333.0	379.1	418.1	467.7	503.1
80°	134.6	145.2	166.5	184.3	201.9	219.7	240.9	258.6	283.4	315.4	333.0
82.5°	127.6	134.6	155.9	166.5	159.5	155.9	170.1	177.1	180.7	191.3	201.9
85°	10.6	0.0	7.1	24.8	60.2	88.6	95.7	95.7	92.1	99.2	99.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	14.2	10.6
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°	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3
2.5°	9580.6	9460.2	9506.2	9562.8	9481.3	9293.6	9343.2	9322.0	9513.3	9499.1	9690.4
5°	8032.2	7844.4	7865.7	8142.1	8053.5	8149.2	7957.9	7933.1	7968.5	7986.2	8018.1
7.5°	6147.3	6122.5	6335.1	6569.0	6678.8	6565.4	6377.6	6335.1	6296.1	6218.2	6395.3
10°	5017.1	5024.1	5010.0	5187.1	5311.2	5286.4	5173.0	5158.8	5084.3	5056.0	5155.2
12.5°	4478.5	4382.9	4336.8	4280.1	4375.7	4439.6	4389.9	4354.5	4358.1	4393.5	4407.7
15°	3957.7	3897.4	3798.2	3734.5	3780.5	3748.6	3730.9	3801.7	3784.1	3776.9	3862.0
17.5°	3373.1	3422.6	3415.6	3344.7	3405.0	3380.1	3376.6	3327.0	3259.6	3210.1	3238.4
20°	2986.8	3079.0	3149.8	3153.4	3185.3	3181.8	3128.6	2976.2	2926.6	2916.0	2923.1
22.5°	2848.6	2898.3	2983.3	3103.8	3103.8	3047.1	2983.3	2806.2	2760.1	2710.5	2689.3
25°	2738.8	2834.5	2944.3	2958.5	3015.2	2962.1	2859.3	2770.8	2675.1	2607.8	2607.8
27.5°	2682.1	2788.4	2869.9	2894.7	2972.7	2930.1	2823.8	2710.5	2597.1	2593.6	2533.3
30°	2657.3	2756.5	2809.7	2869.9	2905.3	2838.0	2806.2	2685.6	2572.3	2543.9	2444.8
32.5°	2583.0	2724.7	2823.8	2809.7	2838.0	2809.7	2763.6	2664.5	2536.9	2473.1	2462.4
35°	2497.9	2639.6	2745.9	2820.3	2838.0	2777.8	2749.5	2614.8	2441.2	2409.3	2299.5
37.5°	2451.9	2536.9	2668.0	2788.4	2813.2	2781.4	2685.6	2547.5	2373.9	2338.5	2242.8
40°	2395.2	2505.0	2607.8	2706.9	2781.4	2703.4	2593.6	2458.9	2381.0	2274.7	2246.3
42.5°	2352.6	2476.7	2561.7	2671.5	2756.5	2653.8	2526.3	2434.1	2324.3	2253.5	2172.0
44°	2338.5	2451.9	2508.5	2643.2	2714.0	2636.1	2529.8	2434.1	2306.6	2242.8	2172.0
45°	2288.9	2444.8	2505.0	2625.4	2685.6	2621.9	2487.3	2391.6	2299.5	2221.5	2147.2
47.5°	2239.2	2345.5	2448.3	2543.9	2586.5	2565.2	2451.9	2335.0	2225.1	2179.0	2108.1
50°	2225.1	2331.3	2427.0	2515.6	2565.2	2522.7	2420.0	2306.6	2179.0	2104.6	2044.4
52.5°	2154.2	2285.3	2391.6	2420.0	2483.7	2458.9	2381.0	2257.0	2136.5	2072.7	2023.1
55°	2051.5	2189.6	2335.0	2370.4	2462.4	2423.5	2306.6	2189.6	2086.9	1991.2	1927.5
57.5°	2012.5	2147.2	2288.9	2335.0	2391.6	2327.8	2299.5	2175.5	2012.5	1962.9	1863.7
60°	1913.3	2083.3	2200.3	2306.6	2310.1	2292.4	2242.8	2101.1	1966.4	1874.3	1803.4
62.5°	1835.3	1994.8	2086.9	2186.1	2246.3	2196.8	2147.2	2016.0	1870.8	1768.0	1686.5
65°	1721.9	1867.2	1945.1	2005.4	2072.7	2065.7	1980.6	1884.9	1732.5	1651.1	1573.2
67.5°	1548.4	1675.9	1782.2	1838.8	1881.4	1870.8	1807.0	1739.7	1583.8	1502.3	1445.6
70°	1339.3	1470.4	1537.7	1569.6	1612.1	1633.4	1583.8	1551.9	1413.7	1307.4	1254.3
72.5°	1077.1	1162.2	1261.3	1289.7	1307.4	1321.5	1321.5	1293.2	1151.5	1109.0	1016.9
75°	793.7	861.0	935.4	935.4	967.2	970.9	977.9	960.2	853.9	797.2	775.9
77.5°	538.6	588.2	648.4	673.2	694.4	690.9	687.3	637.7	581.0	556.2	535.0
80°	350.8	400.4	428.7	460.6	481.9	478.4	485.4	449.9	425.2	382.7	389.7
82.5°	209.1	248.0	276.4	315.4	315.4	326.0	326.0	315.4	290.6	269.3	269.3
85°	99.2	131.1	148.8	173.6	187.8	191.3	170.1	145.2	120.4	109.8	120.4
87.5°	17.7	24.8	35.4	31.9	38.9	35.4	35.4	35.4	35.4	28.3	31.9
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: P651405

CATALOG NUMBER: GALN-SA5D-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3	10824.3
2.5°	9619.6	9796.7	9920.8	10126.2	10480.5	10764.0	11054.5	11270.7	11295.5	11359.2
5°	8135.0	8230.7	8546.0	8957.0	9247.6	9725.8	10034.1	10593.9	10803.0	11026.2
7.5°	6352.8	6508.8	6930.3	7206.7	7844.4	8443.2	9063.3	9754.2	10030.6	10062.5
10°	5357.2	5584.0	5870.9	6313.8	6661.1	7327.2	8099.6	8868.4	9176.7	9229.8
12.5°	4705.2	4995.8	5378.4	5697.4	6030.4	6611.4	7351.9	8301.5	8701.9	8942.9
15°	4078.1	4379.3	4800.9	5243.8	5537.9	6232.3	7103.9	8174.0	8694.8	8907.4
17.5°	3433.3	3713.2	4060.4	4538.7	5130.4	5910.0	7065.0	8599.1	9169.6	9417.6
20°	2880.6	3036.4	3440.4	3932.9	4673.4	5580.5	7079.1	9226.3	10062.5	10172.3
22.5°	2664.5	2699.9	2859.3	3312.8	4124.2	5243.8	7330.7	10115.6	11065.2	11426.6
25°	2497.9	2490.8	2533.3	2838.0	3723.8	5112.7	7578.8	10934.1	12177.7	12571.0
27.5°	2405.8	2335.0	2338.5	2625.4	3440.4	4900.2	7897.6	11873.0	13439.1	13612.7
30°	2359.7	2345.5	2303.0	2420.0	3132.1	4581.3	7950.7	12797.7	14183.1	14434.7
32.5°	2331.3	2193.2	2140.0	2182.6	2841.6	4234.0	8149.2	13407.1	15104.4	14994.5
35°	2189.6	2065.7	2030.2	2072.7	2636.1	4039.2	8018.1	13938.6	15795.2	15979.5
37.5°	2136.5	2026.6	1955.8	1920.3	2444.8	3876.2	7950.7	14757.1	16464.8	16907.8
40°	2086.9	1970.0	1884.9	1849.5	2295.9	3660.0	7929.5	15387.8	17237.3	17503.0
42.5°	2030.2	1955.8	1860.1	1796.4	2115.3	3443.9	7685.1	15582.6	17474.6	17761.7
44°	2012.5	1899.1	1799.9	1778.6	2044.4	3334.1	7635.4	15759.8	17680.2	18116.0
45°	1994.8	1888.5	1775.1	1746.8	2019.6	3273.8	7568.1	15802.3	18020.3	18101.8
47.5°	1945.1	1877.9	1768.0	1690.1	1966.4	3142.7	7366.2	15561.4	17673.1	17687.2
50°	1906.2	1828.2	1714.9	1562.5	1895.5	3032.9	7458.2	15472.8	16836.9	16868.8
52.5°	1863.7	1746.8	1683.0	1420.8	1778.6	2940.8	7653.1	15873.2	16932.6	16925.5
55°	1814.0	1686.5	1530.6	1300.4	1583.8	2823.8	8124.4	16663.3	17818.4	17938.8
57.5°	1736.2	1626.3	1403.0	1194.1	1360.6	2600.6	7972.0	15150.4	16394.0	16415.3
60°	1633.4	1530.6	1272.0	1112.6	1116.1	2051.5	7128.7	11805.7	12935.9	13244.2
62.5°	1534.2	1477.5	1162.2	995.6	949.6	1633.4	6026.9	9810.9	11104.1	11359.2
65°	1417.3	1279.1	1066.5	907.0	814.9	1144.4	4269.4	7330.7	8662.9	9006.6
67.5°	1268.4	1119.6	938.9	797.2	698.0	765.3	2203.8	4166.7	5516.6	5718.6
70°	1109.0	970.9	790.1	673.2	563.4	527.9	970.9	1987.7	3015.2	3224.2
72.5°	910.6	783.1	630.7	531.4	421.6	364.9	326.0	531.4	1070.0	1243.7
75°	659.0	570.5	474.7	379.1	297.6	233.9	191.3	159.5	177.1	191.3
77.5°	485.4	414.5	350.8	269.3	209.1	166.5	131.1	99.2	95.7	92.1
80°	379.1	336.6	279.9	216.1	163.0	124.0	92.1	67.3	60.2	60.2
82.5°	297.6	276.4	230.3	177.1	134.6	99.2	67.3	46.1	38.9	38.9
85°	113.4	113.4	166.5	145.2	102.8	70.9	46.1	24.8	21.3	21.3
87.5°	28.3	28.3	28.3	28.3	24.8	21.3	21.3	10.6	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)