

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: P651735

Luminaire Tested: **GALN-SA2A-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651735
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-SA2A-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 5759.9 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

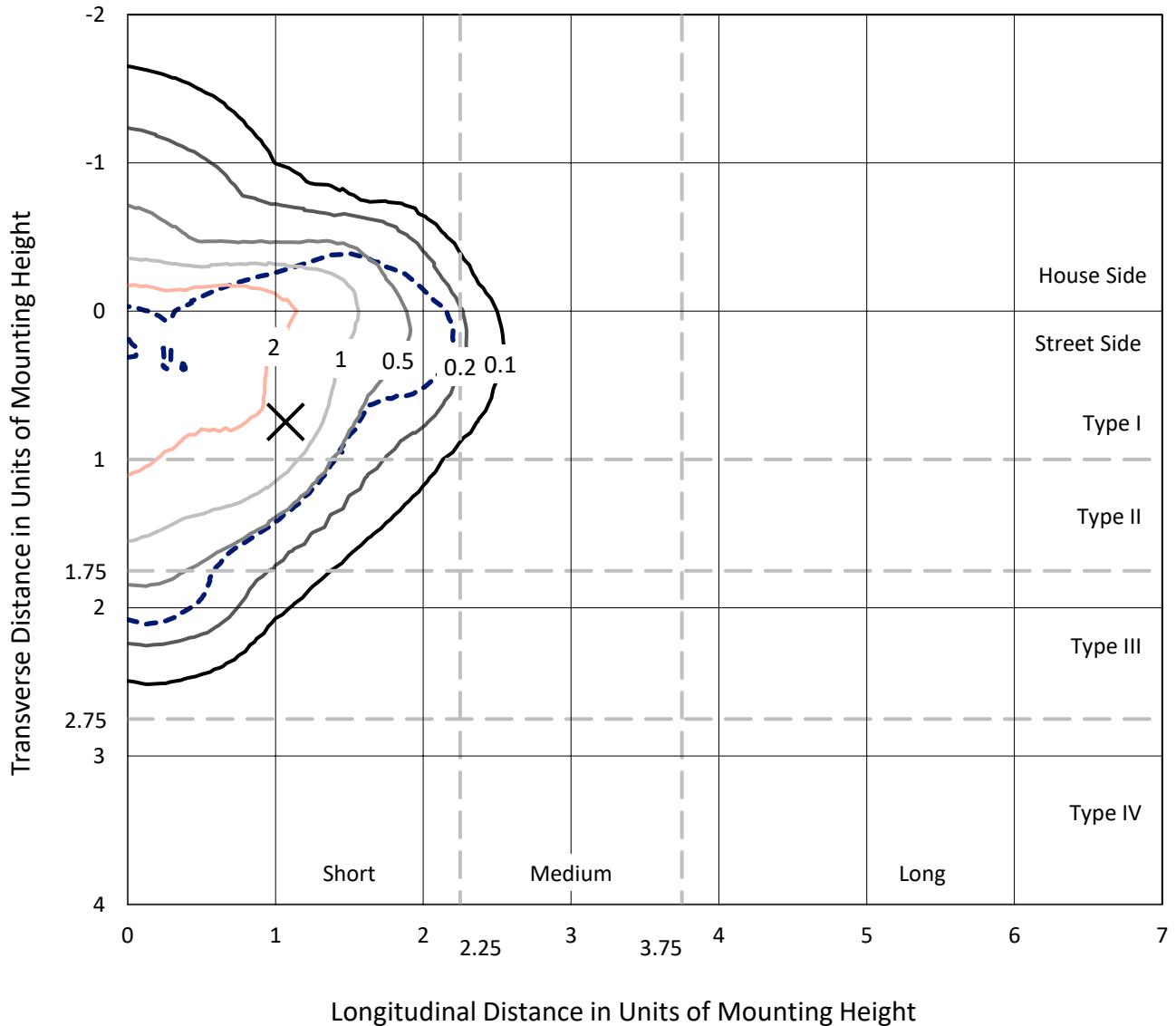
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

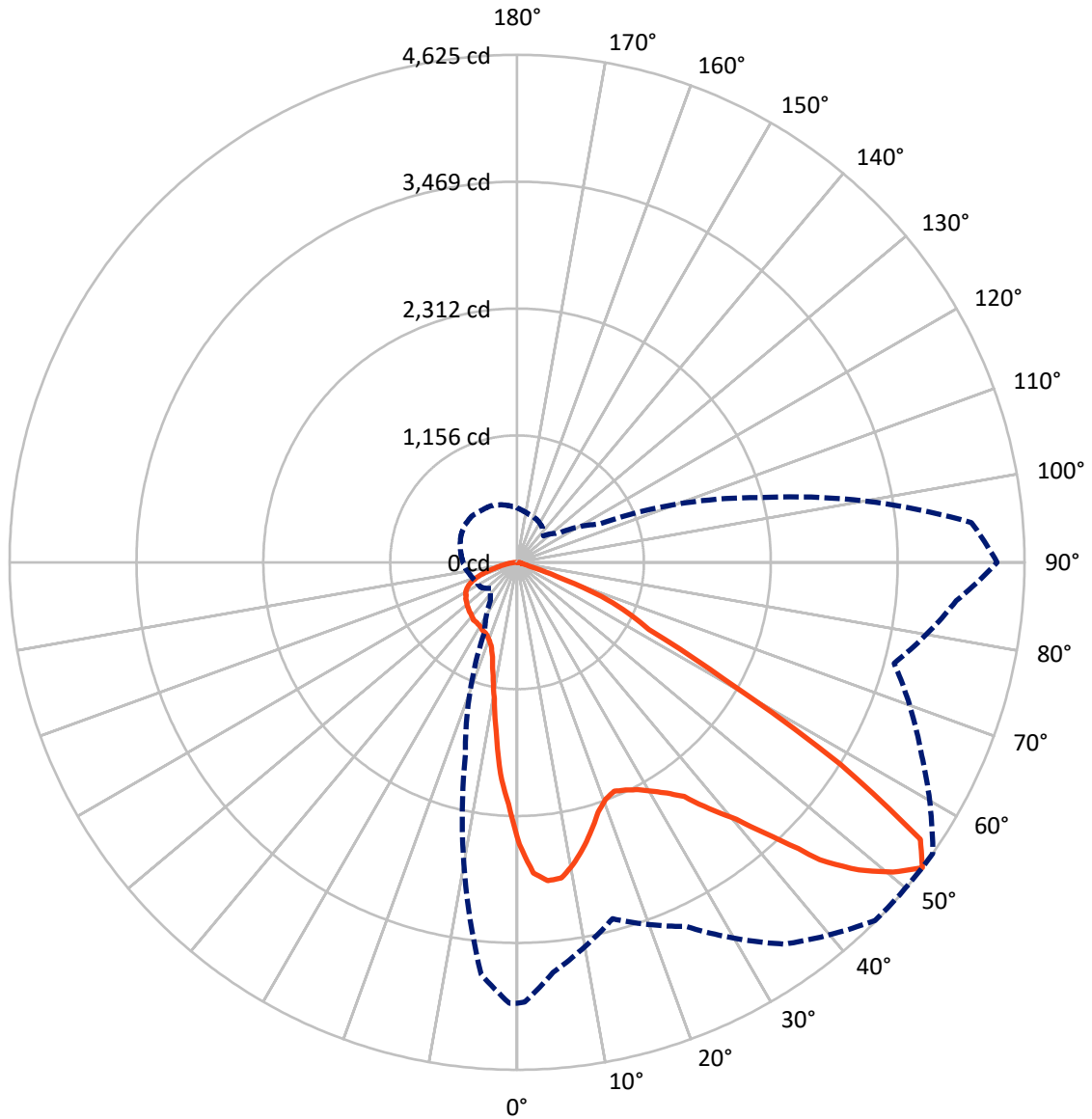
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1757.1	0.0	1757.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4002.9	0.0	4002.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	5759.9	0.0	5759.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	3.4
10°-20°	423.2	7.3
20°-30°	641.8	11.1
30°-40°	927.3	16.1
40°-50°	1239.1	21.5
50°-60°	1383.1	24.0
60°-70°	758.7	13.2
70°-80°	164.0	2.8
80°-90°	26.5	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°	5759.9	100.0
0°-180°	5759.9	100.0

Coefficient of Utilization



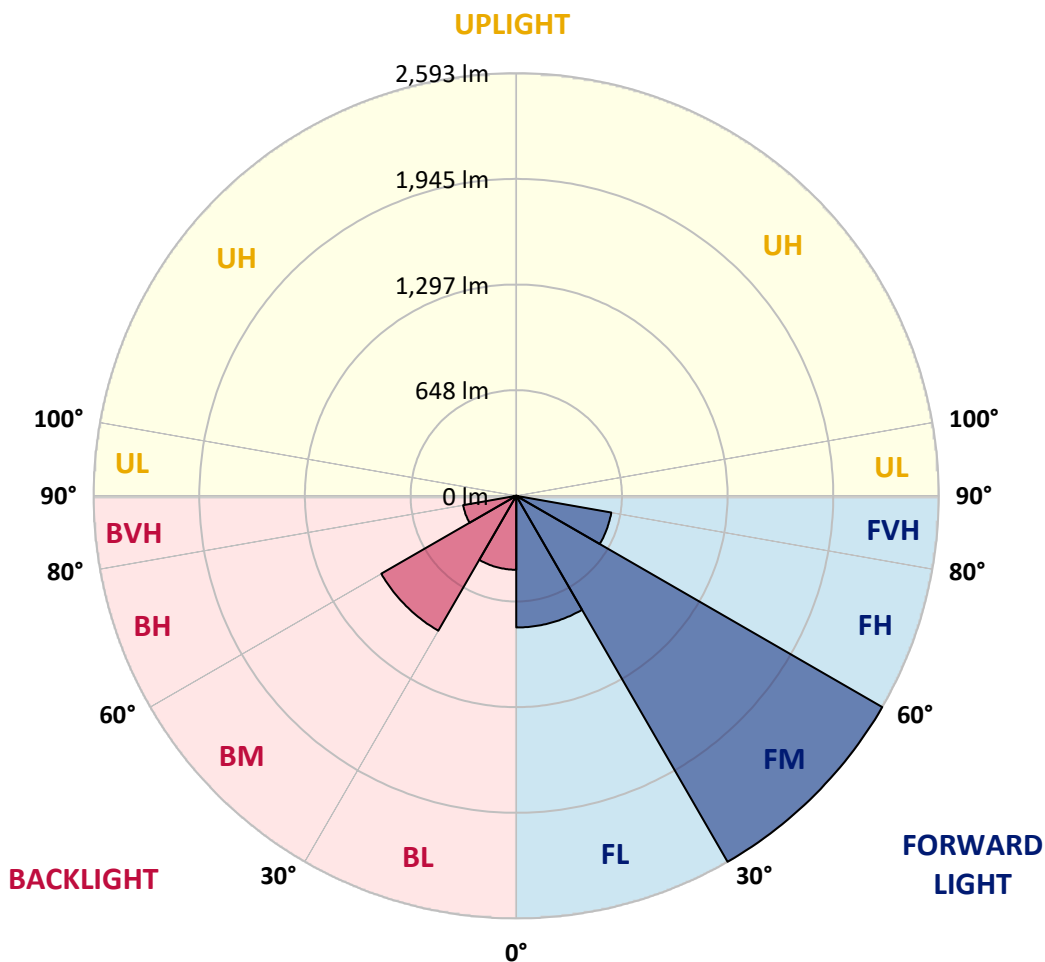
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.7	14.0			
FM (30°-60°)	2593.4	45.0			
FH (60°-80°)	592.0	10.3			G0/660
FVH (80°-90°)	9.8	0.2			G0/10
BL (0°-30°)	453.7	7.9	B1/500		
BM (30°-60°)	956.0	16.6	B1/1000		
BH (60°-80°)	330.7	5.7	B1/500		G1/500
BVH (80°-90°)	16.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4
2.5°	2696.4	2681.3	2694.7	2758.6	2795.7	2820.9	2836.9	2834.3	2773.8	2714.9	2714.9
5°	2617.4	2598.0	2625.8	2770.4	2915.9	2928.5	2949.6	2915.1	2825.9	2718.3	2583.7
7.5°	2388.6	2402.9	2449.2	2639.2	2828.5	2923.5	2948.7	2905.0	2760.3	2559.3	2361.7
10°	2191.0	2224.6	2331.4	2536.6	2710.7	2834.3	2862.1	2800.7	2686.3	2439.9	2263.3
12.5°	2122.9	2101.8	2220.4	2425.6	2592.1	2658.6	2671.2	2675.4	2598.0	2379.4	2164.1
15°	2114.4	2127.9	2220.4	2376.0	2478.6	2482.0	2503.0	2535.8	2545.9	2420.6	2210.3
17.5°	2235.5	2219.6	2314.6	2438.2	2389.4	2340.7	2345.7	2392.8	2476.1	2455.9	2355.8
20°	2414.7	2450.8	2525.7	2513.1	2381.9	2258.3	2259.1	2303.7	2467.7	2602.2	2558.5
22.5°	2712.4	2747.7	2803.2	2651.0	2381.9	2233.9	2205.3	2265.8	2521.5	2776.3	2787.2
25°	2984.0	3048.8	3063.9	2884.8	2501.3	2256.6	2238.1	2297.8	2575.3	2946.2	3049.6
27.5°	3231.3	3254.8	3321.3	3035.3	2567.7	2271.7	2270.0	2346.6	2643.4	3031.1	3284.3
30°	3426.4	3423.9	3461.7	3130.4	2673.7	2356.7	2275.1	2419.7	2732.6	3171.6	3501.3
32.5°	3559.4	3588.0	3667.9	3262.4	2718.3	2437.4	2373.5	2505.5	2841.1	3238.0	3654.4
35°	3793.2	3842.8	3741.9	3335.6	2859.6	2517.3	2442.4	2622.4	2894.9	3310.3	3841.9
37.5°	4013.5	3975.7	3873.1	3375.1	2951.2	2665.3	2595.5	2848.6	3062.2	3467.6	3966.4
40°	4154.8	4154.0	3971.5	3407.1	3016.0	2891.5	2887.3	3078.2	3267.5	3566.9	4106.0
42.5°	4216.2	4275.1	4011.8	3403.7	3152.2	3165.7	3250.6	3421.4	3412.9	3587.1	4102.7
44°	4300.3	4335.6	4081.6	3411.3	3243.1	3350.7	3551.0	3659.4	3540.0	3576.2	4098.4
45°	4296.9	4299.4	3982.4	3421.4	3320.4	3505.5	3684.7	3868.0	3651.9	3552.6	4154.0
47.5°	4198.5	4169.9	3898.3	3346.5	3561.9	3914.3	4079.9	4191.0	3789.8	3502.2	4085.0
50°	4004.3	3971.5	3693.9	3314.5	3612.3	4168.2	4397.0	4437.4	3915.1	3452.5	4016.9
52.5°	4017.7	4008.5	3752.0	3362.5	3662.8	4248.1	4614.8	4624.9	4057.2	3556.8	4017.7
55°	4258.2	4226.3	3918.5	3422.2	3625.8	4154.8	4476.1	4458.4	4009.3	3493.7	4091.7
57.5°	3896.6	3917.6	3688.0	3185.9	3173.3	3377.6	3519.0	3475.2	3345.7	3153.1	3806.6
60°	3143.8	3203.5	3225.4	2664.5	2394.5	2289.4	2247.3	2169.9	2191.8	2590.4	3344.0
62.5°	2696.4	2693.1	2830.1	2415.5	1568.5	1349.0	1328.9	1346.5	1598.8	2550.1	3275.0
65°	2138.0	2195.2	2237.2	2047.1	1241.4	1001.7	1000.9	1112.7	1383.5	2131.3	2644.3
67.5°	1357.5	1432.3	1484.4	1309.5	830.2	713.3	693.8	828.5	958.8	1397.8	1592.1
70°	765.4	800.7	824.3	755.3	528.1	370.0	348.2	380.1	579.4	905.0	943.7
72.5°	295.2	311.2	343.1	345.7	199.3	119.4	96.7	116.1	243.9	358.3	341.4
75°	45.4	48.8	69.0	82.4	57.2	43.7	46.3	47.9	68.1	92.5	77.4
77.5°	21.9	21.9	21.0	24.4	28.6	31.1	33.6	37.0	40.4	44.6	42.9
80°	14.3	14.3	14.3	16.8	21.0	25.2	28.6	30.3	32.0	35.3	33.6
82.5°	9.3	9.3	9.3	12.6	16.8	21.0	22.7	26.9	30.3	35.3	32.8
85°	5.0	5.0	5.0	8.4	12.6	17.7	16.8	13.5	7.6	0.8	1.7
87.5°	1.7	1.7	1.7	1.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4
2.5°	2644.3	2605.6	2602.2	2523.2	2452.5	2418.0	2390.3	2312.9	2329.7	2285.2	2284.3
5°	2516.4	2437.4	2309.6	2204.4	2099.3	2078.2	1986.5	1906.6	1909.2	1852.0	1862.1
7.5°	2286.8	2232.2	2076.5	1911.7	1772.1	1672.8	1586.2	1534.1	1467.6	1444.9	1433.1
10°	2141.4	2074.0	1899.1	1692.2	1535.8	1482.8	1399.5	1353.3	1285.1	1251.5	1227.9
12.5°	2077.4	1979.0	1760.3	1550.0	1445.8	1391.1	1320.5	1236.4	1155.6	1124.5	1081.6
15°	2084.1	1966.3	1719.9	1492.9	1367.6	1261.6	1198.5	1105.2	1022.7	968.1	937.0
17.5°	2185.9	2042.9	1738.4	1449.1	1269.2	1136.3	1012.6	911.7	846.1	804.9	794.8
20°	2426.5	2232.2	1769.5	1378.5	1170.8	1005.1	852.9	747.7	697.2	696.3	697.2
22.5°	2626.6	2434.0	1832.6	1336.4	1072.4	836.9	685.4	651.8	641.7	662.7	665.2
25°	2896.6	2661.1	1941.1	1314.6	981.5	713.3	619.8	607.2	606.4	633.3	634.1
27.5°	3173.3	2859.6	2005.9	1250.7	889.0	649.3	580.3	577.8	591.2	619.8	617.3
30°	3361.6	3026.1	2122.9	1174.1	779.7	592.9	564.3	567.7	586.2	608.0	611.4
32.5°	3581.2	3190.1	2153.1	1132.1	712.4	545.8	525.6	533.2	556.7	591.2	609.7
35°	3832.7	3306.1	2199.4	1074.9	687.1	509.6	499.6	508.0	536.6	559.3	579.4
37.5°	4018.6	3511.4	2207.8	1030.3	659.3	489.5	473.5	501.2	518.1	550.0	560.1
40°	4156.5	3660.3	2229.7	1002.6	637.5	463.4	463.4	481.9	504.6	534.0	554.2
42.5°	4244.8	3768.8	2245.6	977.3	595.4	455.8	451.6	470.1	500.4	529.0	538.2
44°	4298.6	3815.0	2229.7	953.8	583.7	446.6	446.6	462.6	486.1	519.7	530.7
45°	4312.1	3873.1	2194.3	952.9	569.4	435.6	434.0	464.2	480.2	521.4	528.1
47.5°	4364.2	3944.5	2198.5	926.0	534.9	409.6	439.0	452.5	466.8	502.9	525.6
50°	4362.5	3989.1	2189.3	886.5	509.6	380.1	428.9	444.0	458.3	495.3	504.6
52.5°	4374.3	4155.6	2274.2	823.4	464.2	342.3	395.3	428.9	446.6	477.7	497.0
55°	4368.4	4250.7	2358.3	776.3	400.3	319.6	366.7	406.2	431.4	464.2	473.5
57.5°	3990.0	3757.0	2182.6	687.9	331.4	292.7	326.3	382.7	414.6	448.3	460.0
60°	3259.9	2895.7	1799.8	506.3	272.5	269.1	303.6	375.1	388.5	418.0	438.2
62.5°	3012.6	2540.0	1427.3	386.9	233.0	246.4	280.1	338.9	359.9	396.1	414.6
65°	2357.5	1687.1	884.0	261.6	205.2	221.2	253.1	296.9	331.4	365.0	386.9
67.5°	1396.1	921.8	437.3	183.3	179.1	196.0	228.8	261.6	301.1	338.1	349.0
70°	760.3	453.3	186.7	139.6	152.2	167.4	199.3	222.0	259.9	288.5	307.0
72.5°	243.9	137.9	93.4	103.4	116.1	133.7	153.1	180.8	207.7	224.5	239.7
75°	58.9	58.0	66.4	72.3	84.1	97.6	113.5	127.8	148.9	164.8	178.3
77.5°	41.2	44.6	51.3	59.7	63.9	69.0	79.1	90.0	99.2	111.0	119.4
80°	32.0	34.5	39.5	43.7	47.9	52.1	57.2	61.4	67.3	74.8	79.1
82.5°	30.3	32.0	37.0	39.5	37.8	37.0	40.4	42.0	42.9	45.4	47.9
85°	2.5	0.0	1.7	5.9	14.3	21.0	22.7	22.7	21.9	23.5	23.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.4	2.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4
2.5°	2274.2	2245.6	2256.6	2270.0	2250.7	2206.1	2217.9	2212.8	2258.3	2254.9	2300.3
5°	1906.6	1862.1	1867.1	1932.7	1911.7	1934.4	1889.0	1883.1	1891.5	1895.7	1903.3
7.5°	1459.2	1453.3	1503.8	1559.3	1585.4	1558.5	1513.9	1503.8	1494.5	1476.0	1518.1
10°	1190.9	1192.6	1189.3	1231.3	1260.7	1254.9	1227.9	1224.6	1206.9	1200.2	1223.7
12.5°	1063.1	1040.4	1029.5	1016.0	1038.7	1053.9	1042.1	1033.7	1034.5	1042.9	1046.3
15°	939.5	925.2	901.6	886.5	897.4	889.9	885.7	902.5	898.3	896.6	916.8
17.5°	800.7	812.5	810.8	794.0	808.3	802.4	801.6	789.8	773.8	762.0	768.8
20°	709.0	730.9	747.7	748.6	756.1	755.3	742.7	706.5	694.7	692.1	693.8
22.5°	676.2	687.9	708.2	736.8	736.8	723.3	708.2	666.1	655.1	643.4	638.3
25°	650.1	672.8	698.9	702.3	715.8	703.2	678.7	657.7	635.0	619.0	619.0
27.5°	636.6	661.9	681.2	687.1	705.7	695.5	670.3	643.4	616.5	615.6	601.3
30°	630.8	654.3	666.9	681.2	689.6	673.6	666.1	637.5	610.6	603.8	580.3
32.5°	613.1	646.7	670.3	666.9	673.6	666.9	656.0	632.4	602.2	587.0	584.5
35°	592.9	626.5	651.8	669.4	673.6	659.3	652.6	620.7	579.4	571.9	545.8
37.5°	582.0	602.2	633.3	661.9	667.8	660.2	637.5	604.7	563.5	555.1	532.4
40°	568.5	594.6	619.0	642.5	660.2	641.7	615.6	583.7	565.2	539.9	533.2
42.5°	558.4	587.9	608.0	634.1	654.3	629.9	599.6	577.8	551.7	534.9	515.5
44°	555.1	582.0	595.4	627.4	644.2	625.7	600.5	577.8	547.5	532.4	515.5
45°	543.3	580.3	594.6	623.2	637.5	622.3	590.4	567.7	545.8	527.3	509.6
47.5°	531.5	556.7	581.1	603.8	613.9	608.9	582.0	554.2	528.1	517.2	500.4
50°	528.1	553.4	576.1	597.1	608.9	598.8	574.4	547.5	517.2	499.6	485.3
52.5°	511.3	542.4	567.7	574.4	589.5	583.7	565.2	535.7	507.1	492.0	480.2
55°	486.9	519.7	554.2	562.6	584.5	575.2	547.5	519.7	495.3	472.6	457.5
57.5°	477.7	509.6	543.3	554.2	567.7	552.5	545.8	516.4	477.7	465.9	442.4
60°	454.1	494.5	522.3	547.5	548.3	544.1	532.4	498.7	466.8	444.9	428.1
62.5°	435.6	473.5	495.3	518.9	533.2	521.4	509.6	478.5	444.0	419.7	400.3
65°	408.7	443.2	461.7	476.0	492.0	490.3	470.1	447.4	411.2	391.9	373.4
67.5°	367.5	397.8	423.0	436.5	446.6	444.0	428.9	412.9	375.9	356.6	343.1
70°	317.9	349.0	365.0	372.6	382.7	387.7	375.9	368.4	335.6	310.3	297.7
72.5°	255.7	275.8	299.4	306.1	310.3	313.7	313.7	307.0	273.3	263.2	241.4
75°	188.4	204.4	222.0	222.0	229.6	230.4	232.1	227.9	202.7	189.2	184.2
77.5°	127.8	139.6	153.9	159.8	164.8	164.0	163.2	151.4	137.9	132.0	127.0
80°	83.3	95.0	101.8	109.3	114.4	113.5	115.2	106.8	100.9	90.8	92.5
82.5°	49.6	58.9	65.6	74.8	74.8	77.4	77.4	74.8	69.0	63.9	63.9
85°	23.5	31.1	35.3	41.2	44.6	45.4	40.4	34.5	28.6	26.1	28.6
87.5°	4.2	5.9	8.4	7.6	9.3	8.4	8.4	8.4	8.4	6.7	7.6
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: P651735

CATALOG NUMBER: GALN-SA2A-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4
2.5°	2283.5	2325.5	2355.0	2403.7	2487.8	2555.1	2624.1	2675.4	2681.3	2696.4
5°	1931.0	1953.7	2028.6	2126.2	2195.2	2308.7	2381.9	2514.8	2564.4	2617.4
7.5°	1508.0	1545.0	1645.1	1710.7	1862.1	2004.2	2151.4	2315.4	2381.0	2388.6
10°	1271.7	1325.5	1393.6	1498.7	1581.2	1739.3	1922.6	2105.2	2178.4	2191.0
12.5°	1116.9	1185.9	1276.7	1352.4	1431.5	1569.4	1745.2	1970.5	2065.6	2122.9
15°	968.1	1039.6	1139.6	1244.8	1314.6	1479.4	1686.3	1940.3	2063.9	2114.4
17.5°	815.0	881.5	963.9	1077.4	1217.9	1402.9	1677.0	2041.2	2176.7	2235.5
20°	683.7	720.8	816.7	933.6	1109.4	1324.7	1680.4	2190.1	2388.6	2414.7
22.5°	632.4	640.8	678.7	786.4	979.0	1244.8	1740.1	2401.2	2626.6	2712.4
25°	592.9	591.2	601.3	673.6	884.0	1213.6	1799.0	2595.5	2890.7	2984.0
27.5°	571.0	554.2	555.1	623.2	816.7	1163.2	1874.7	2818.4	3190.1	3231.3
30°	560.1	556.7	546.6	574.4	743.5	1087.5	1887.3	3037.9	3366.7	3426.4
32.5°	553.4	520.6	508.0	518.1	674.5	1005.1	1934.4	3182.5	3585.4	3559.4
35°	519.7	490.3	481.9	492.0	625.7	958.8	1903.3	3308.7	3749.4	3793.2
37.5°	507.1	481.1	464.2	455.8	580.3	920.1	1887.3	3503.0	3908.4	4013.5
40°	495.3	467.6	447.4	439.0	545.0	868.8	1882.2	3652.7	4091.7	4154.8
42.5°	481.9	464.2	441.5	426.4	502.1	817.5	1824.2	3699.0	4148.1	4216.2
44°	477.7	450.8	427.2	422.2	485.3	791.5	1812.4	3741.0	4196.8	4300.3
45°	473.5	448.3	421.3	414.6	479.4	777.2	1796.5	3751.1	4277.6	4296.9
47.5°	461.7	445.7	419.7	401.2	466.8	746.1	1748.5	3693.9	4195.2	4198.5
50°	452.5	434.0	407.0	370.9	449.9	720.0	1770.4	3672.9	3996.7	4004.3
52.5°	442.4	414.6	399.5	337.2	422.2	698.0	1816.6	3767.9	4019.4	4017.7
55°	430.6	400.3	363.3	308.6	375.9	670.3	1928.5	3955.5	4229.6	4258.2
57.5°	412.1	386.0	333.0	283.4	322.9	617.3	1892.3	3596.4	3891.6	3896.6
60°	387.7	363.3	301.9	264.1	264.9	486.9	1692.2	2802.4	3070.7	3143.8
62.5°	364.2	350.7	275.8	236.3	225.4	387.7	1430.6	2328.9	2635.9	2696.4
65°	336.4	303.6	253.1	215.3	193.4	271.6	1013.5	1740.1	2056.3	2138.0
67.5°	301.1	265.8	222.9	189.2	165.7	181.7	523.1	989.1	1309.5	1357.5
70°	263.2	230.4	187.5	159.8	133.7	125.3	230.4	471.8	715.8	765.4
72.5°	216.1	185.9	149.7	126.2	100.1	86.6	77.4	126.2	254.0	295.2
75°	156.4	135.4	112.7	90.0	70.6	55.5	45.4	37.8	42.0	45.4
77.5°	115.2	98.4	83.3	63.9	49.6	39.5	31.1	23.5	22.7	21.9
80°	90.0	79.9	66.4	51.3	38.7	29.4	21.9	16.0	14.3	14.3
82.5°	70.6	65.6	54.7	42.0	32.0	23.5	16.0	10.9	9.3	9.3
85°	26.9	26.9	39.5	34.5	24.4	16.8	10.9	5.9	5.0	5.0
87.5°	6.7	6.7	6.7	6.7	5.9	5.0	5.0	2.5	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)