

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: P651464

Luminaire Tested: **GALN-SA6D-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651464
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-SA6D-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 28732.8 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

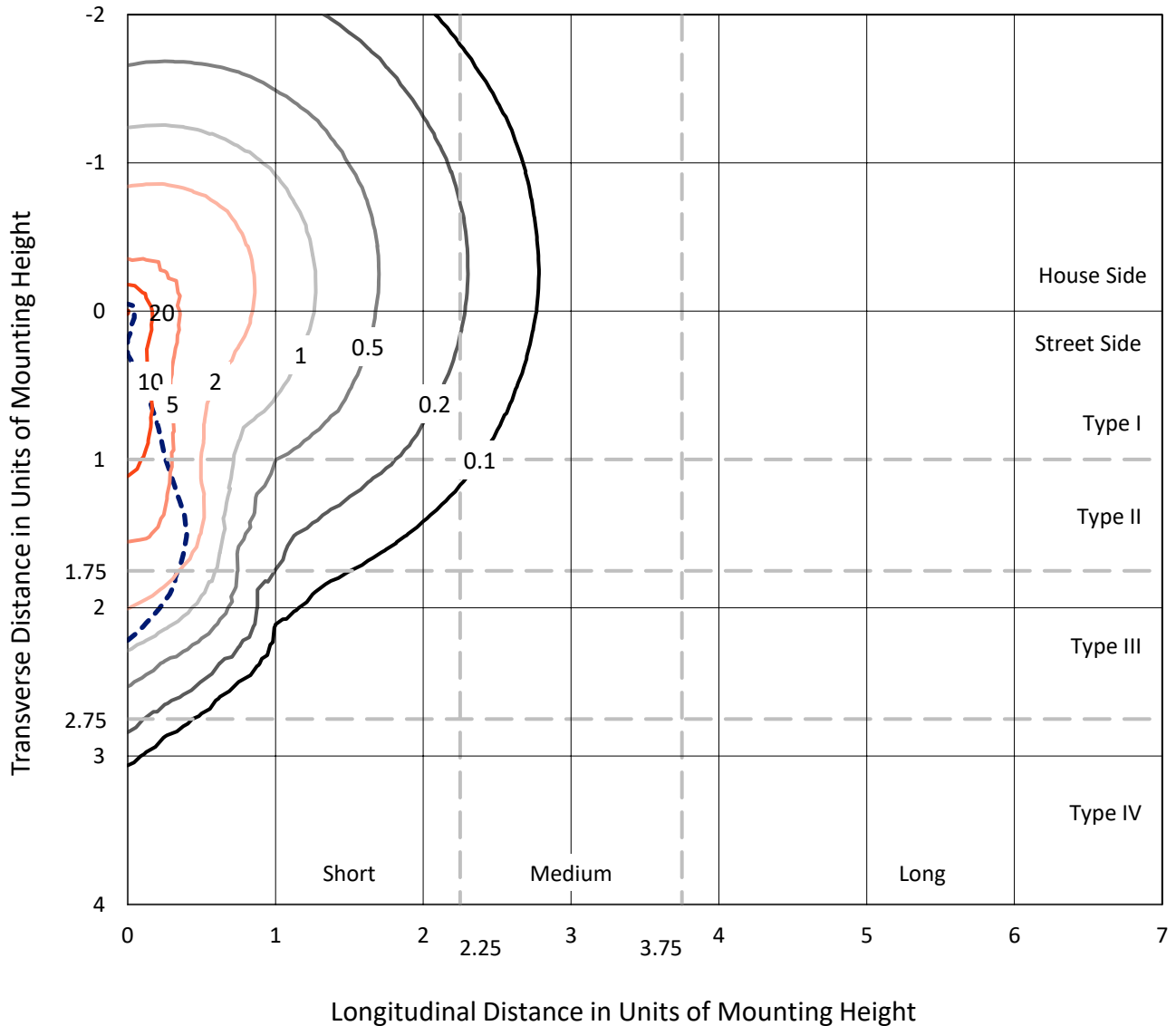
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

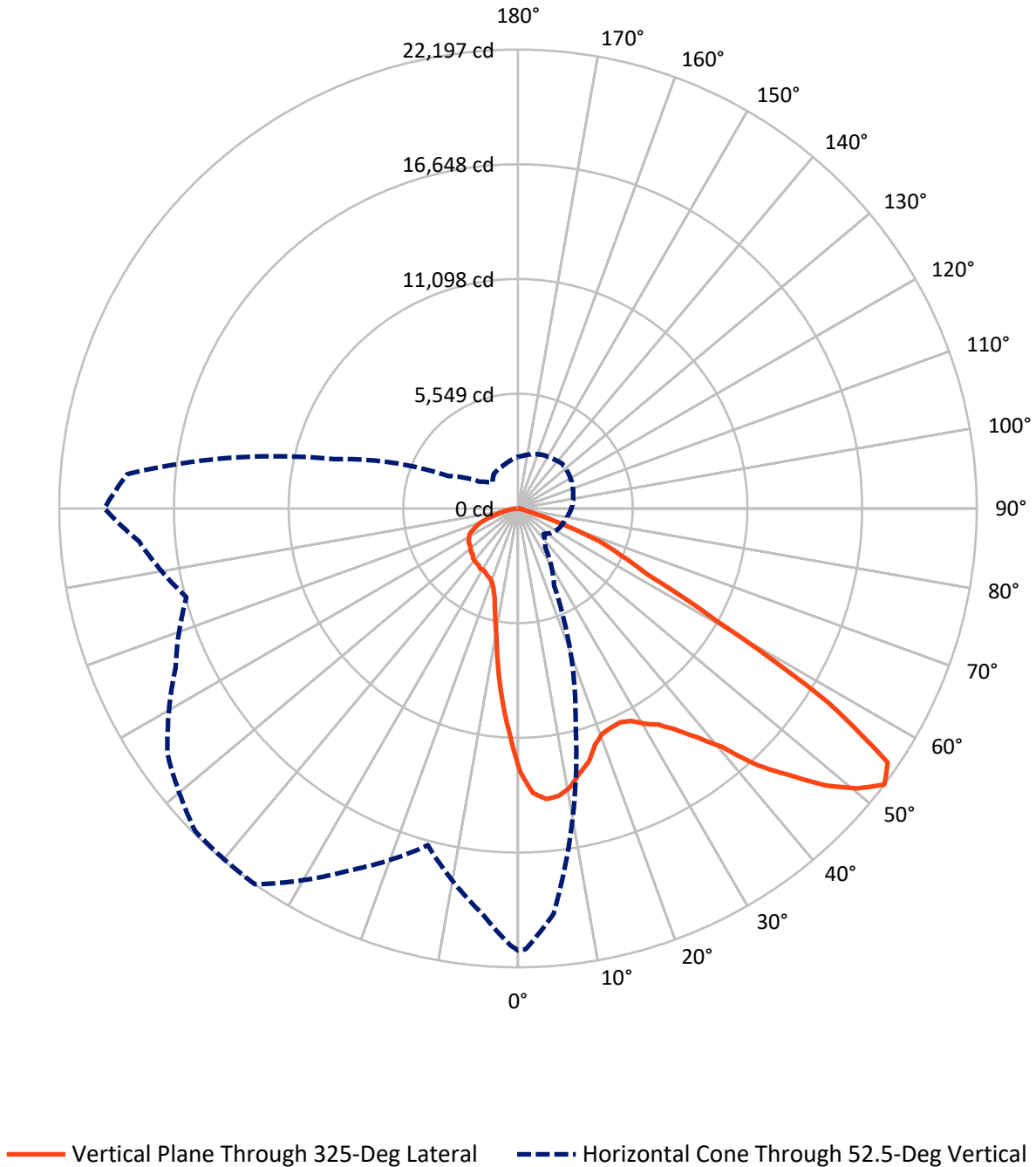
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot





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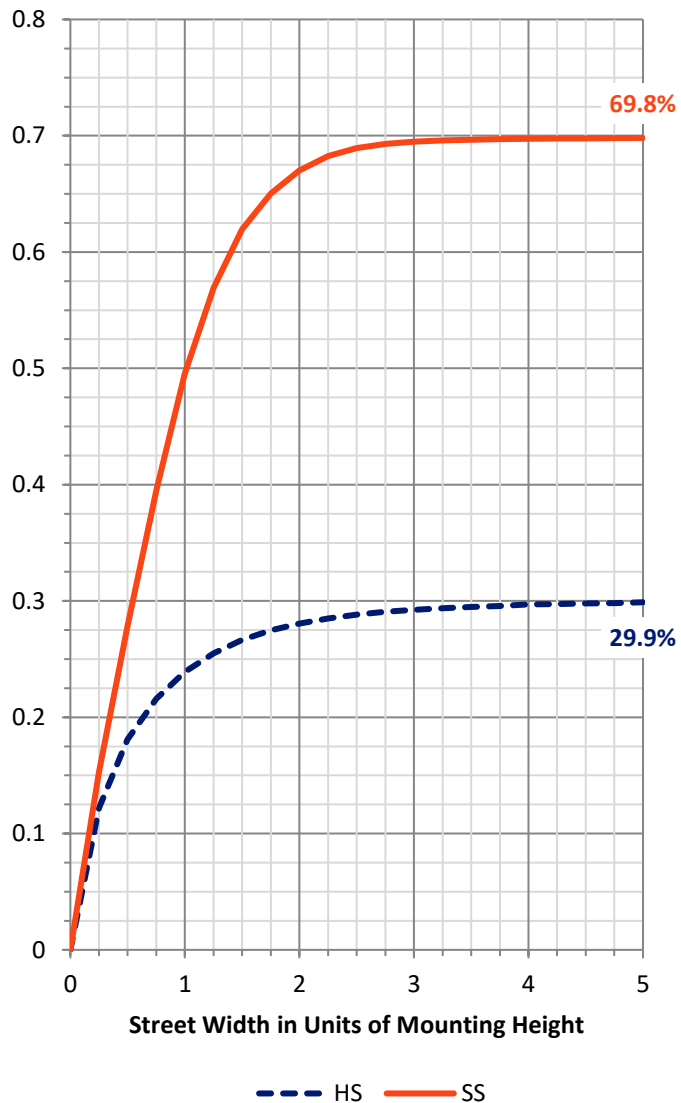
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8661.7	0.0	8661.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	20071.0	0.0	20071.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	28732.8	0.0	28732.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	972.9	3.4
10°-20°	2109.0	7.3
20°-30°	3186.5	11.1
30°-40°	4604.7	16.0
40°-50°	6128.0	21.3
50°-60°	6854.3	23.9
60°-70°	3863.0	13.4
70°-80°	861.1	3.0
80°-90°	153.3	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°	28732.8	100.0
0°-180°	28732.8	100.0

Coefficient of Utilization



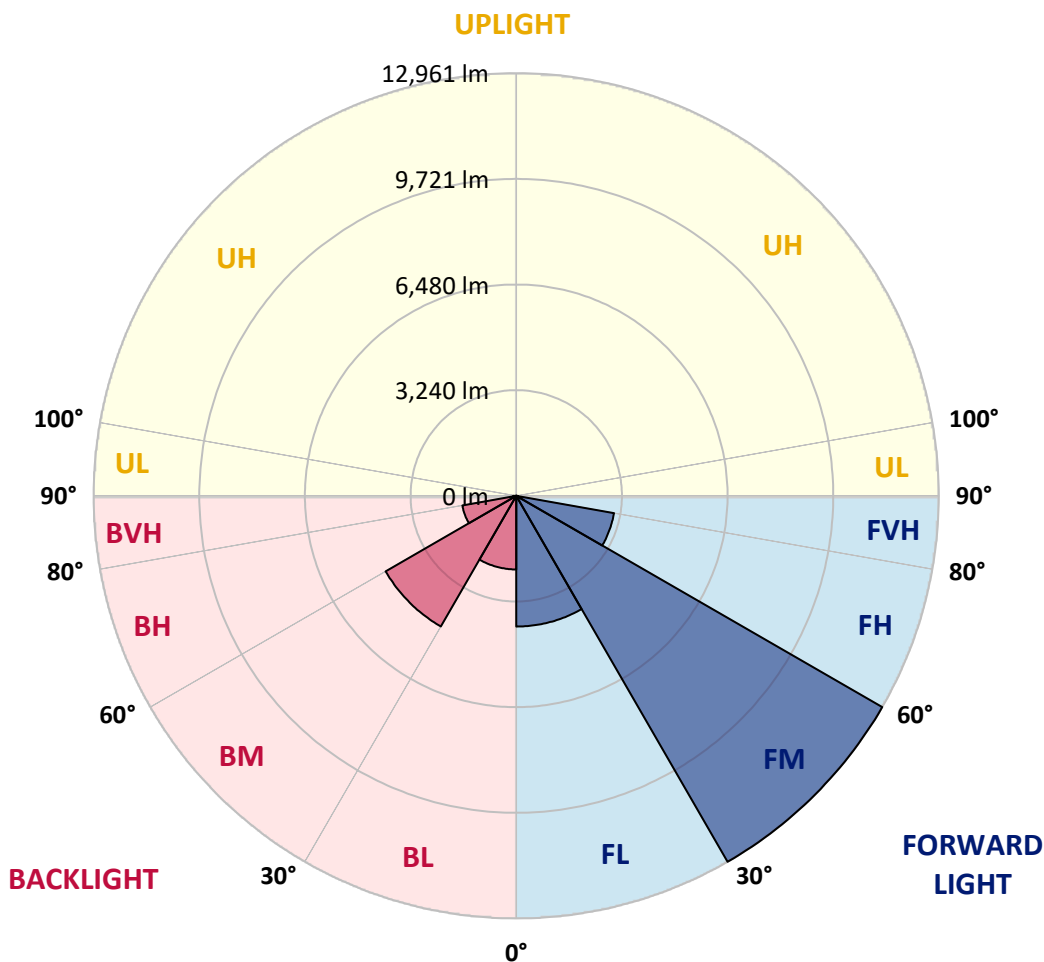
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4009.6	14.0			
FM (30°-60°)	12960.7	45.1			
FH (60°-80°)	3045.2	10.6			G2/5000
FVH (80°-90°)	55.5	0.2			G1/100
BL (0°-30°)	2258.8	7.9	B3/2500		
BM (30°-60°)	4626.2	16.1	B3/5000		
BH (60°-80°)	1678.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	97.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7
2.5°	12964.2	13172.4	12947.5	12547.7	12264.6	12006.4	11735.7	11681.5	11327.5	11265.0	11006.8
5°	12227.0	12181.2	11906.4	11381.7	10802.8	10278.0	9890.7	9515.9	9261.9	8966.2	8945.4
7.5°	11331.6	11065.1	10906.9	10111.4	9395.1	8570.6	8216.6	7646.0	7467.0	7200.5	7063.1
10°	10532.1	10336.4	9965.7	9170.3	8170.8	7625.3	7246.3	6938.1	6729.9	6455.0	6109.4
12.5°	10136.5	10057.4	9640.9	8408.1	7666.9	7083.8	6817.3	6517.5	6163.5	5722.1	5551.3
15°	10207.2	9940.7	9624.2	8262.4	7238.0	6675.8	6251.0	5876.2	5422.2	5001.6	4755.9
17.5°	10736.1	10532.1	9899.1	8354.1	7075.5	6263.4	5493.0	4939.1	4531.0	4152.0	3981.3
20°	11777.3	11481.6	10769.4	8470.6	6725.7	5688.8	4805.9	4122.9	3685.6	3485.7	3427.4
22.5°	12930.9	12756.0	11619.0	8733.0	6446.7	5155.7	4077.1	3394.1	3231.7	3177.6	3285.8
25°	14334.3	13880.4	12939.2	9161.9	6230.1	4701.8	3460.7	3081.8	2998.4	3052.6	3177.6
27.5°	15400.4	15279.6	13863.7	9566.0	5934.4	4156.2	3115.1	2865.2	2890.2	2944.3	3060.9
30°	16666.4	16054.3	14759.0	9844.9	5667.9	3781.4	2873.5	2806.9	2831.9	2923.5	2981.8
32.5°	17428.5	17199.5	15321.3	10265.6	5359.8	3456.6	2686.2	2623.7	2661.1	2798.6	2936.0
35°	18398.9	17944.9	16016.8	10373.8	5143.2	3327.4	2552.9	2507.0	2594.5	2690.3	2844.3
37.5°	19531.6	19219.3	16978.8	10298.9	5026.6	3194.2	2440.4	2419.6	2482.0	2615.3	2794.4
40°	20202.1	20106.3	17482.7	10344.7	4843.3	3077.6	2311.3	2336.3	2465.4	2569.5	2744.4
42.5°	20847.6	20222.9	18228.2	10328.0	4726.8	2919.4	2323.8	2294.7	2394.6	2515.3	2681.9
45°	20989.2	20368.7	18403.0	10211.4	4585.1	2765.2	2228.1	2240.5	2361.3	2511.2	2619.5
47.5°	20897.6	20439.5	18727.9	10178.1	4451.9	2657.0	2086.4	2236.4	2307.1	2427.9	2582.0
50°	20835.1	20810.1	19002.7	10336.4	4272.8	2486.2	1915.7	2182.2	2253.0	2373.8	2540.3
52.5°	21384.9	21330.7	19689.9	10752.8	4131.2	2303.0	1740.8	2044.8	2215.5	2332.1	2494.6
55°	21718.0	21480.7	20868.4	11265.0	3893.8	2061.5	1620.0	1874.0	2123.9	2228.1	2394.6
57.5°	19535.8	19373.4	18877.8	10515.4	3494.0	1744.9	1470.1	1699.2	1999.0	2161.4	2332.1
60°	16254.2	16000.1	14729.9	8937.1	2577.8	1357.6	1378.5	1561.7	1965.7	2028.2	2228.1
62.5°	15325.5	14696.6	12968.3	7192.1	1978.1	1166.0	1236.9	1436.8	1790.7	1894.9	2094.8
65°	12160.4	11694.0	9278.6	5193.2	1324.3	1012.0	1128.6	1295.1	1545.0	1749.1	1932.4
67.5°	7612.7	7167.2	4951.6	2457.1	924.5	866.2	1007.9	1182.7	1386.8	1570.1	1774.1
70°	3977.1	3489.9	2286.3	887.0	637.1	708.0	841.3	1007.9	1207.7	1357.6	1515.9
72.5°	1482.6	1203.6	745.5	383.2	441.4	541.4	683.0	803.7	945.4	1128.6	1216.0
75°	229.1	195.7	191.6	233.2	299.8	391.5	487.3	608.0	732.9	849.6	907.9
77.5°	108.2	104.1	116.6	154.1	199.9	279.0	354.0	470.6	570.5	645.5	678.9
80°	70.8	66.6	74.9	104.1	150.0	208.2	283.2	362.3	454.0	516.4	508.0
82.5°	41.6	45.8	45.8	70.8	104.1	150.0	204.0	274.8	337.3	391.5	358.2
85°	25.0	20.9	20.9	41.6	70.8	120.8	170.7	116.6	120.8	120.8	137.4
87.5°	8.3	8.3	8.3	4.2	8.3	8.3	12.5	20.9	25.0	29.2	37.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7
2.5°	10998.5	11127.6	11081.8	10919.4	11044.3	11065.1	10981.9	11269.2	11323.3	11235.9	11260.9
5°	8916.3	8949.6	9024.5	9182.8	9295.2	9428.5	9428.5	9436.8	9324.3	9607.6	9524.2
7.5°	6946.4	6967.3	7054.7	7392.1	7487.8	7741.8	7850.1	7775.1	7550.2	7454.5	7533.6
10°	5996.9	5876.2	5847.0	5888.6	6105.2	6213.5	6305.1	6280.1	6242.7	6167.6	6084.4
12.5°	5363.9	5276.4	5205.6	5105.7	5118.2	5222.3	5293.1	5234.8	5251.5	5268.1	5293.1
15°	4676.8	4614.3	4576.8	4426.9	4410.2	4481.0	4506.0	4539.3	4601.8	4606.0	4576.8
17.5°	3948.0	3893.8	3977.1	4060.4	4002.2	4006.3	4052.1	4081.2	4064.6	3989.6	3952.1
20°	3448.3	3506.5	3589.8	3668.9	3731.4	3768.9	3785.6	3739.8	3685.6	3531.5	3527.3
22.5°	3302.4	3377.5	3448.3	3569.0	3627.3	3723.1	3635.6	3531.5	3456.6	3381.6	3294.1
25°	3194.2	3256.7	3398.2	3444.1	3556.5	3635.6	3573.2	3469.0	3339.9	3231.7	3165.0
27.5°	3115.1	3185.9	3277.5	3402.4	3489.9	3535.6	3473.2	3431.5	3298.3	3169.2	3073.4
30°	3065.1	3140.0	3306.6	3410.8	3485.7	3523.2	3414.9	3364.9	3269.1	3160.9	3077.6
32.5°	3031.8	3098.4	3240.0	3373.3	3423.2	3423.2	3439.9	3381.6	3248.4	3065.1	2994.3
35°	2923.5	3015.2	3131.7	3285.8	3377.5	3431.5	3348.3	3281.7	3194.2	3006.8	2877.6
37.5°	2861.0	2923.5	3073.4	3219.2	3298.3	3356.6	3323.3	3206.6	3090.1	2936.0	2831.9
40°	2794.4	2894.4	3027.6	3165.0	3252.5	3310.8	3285.8	3148.4	3006.8	2861.0	2790.3
42.5°	2748.6	2815.2	2952.7	3106.7	3210.9	3323.3	3248.4	3077.6	2977.6	2777.7	2698.6
45°	2711.1	2819.4	2965.1	3027.6	3135.9	3252.5	3119.3	3015.2	2898.5	2752.8	2686.2
47.5°	2665.3	2765.2	2861.0	3027.6	3077.6	3131.7	3106.7	2940.1	2840.2	2681.9	2636.1
50°	2648.6	2686.2	2861.0	2952.7	3023.5	3077.6	3010.9	2886.0	2790.3	2627.8	2527.9
52.5°	2582.0	2652.8	2765.2	2886.0	2973.4	3040.1	2931.8	2852.7	2723.6	2552.9	2490.4
55°	2498.7	2540.3	2740.2	2865.2	2911.0	2956.8	2915.2	2786.1	2652.8	2477.9	2415.4
57.5°	2390.5	2486.2	2648.6	2823.6	2881.9	2906.8	2840.2	2736.1	2569.5	2415.4	2315.4
60°	2278.0	2377.9	2557.1	2698.6	2756.9	2848.6	2748.6	2686.2	2494.6	2323.8	2215.5
62.5°	2165.6	2278.0	2411.2	2590.4	2640.3	2677.8	2652.8	2565.4	2411.2	2219.7	2086.4
65°	2032.3	2115.6	2282.1	2373.8	2407.1	2494.6	2407.1	2373.8	2236.4	2053.1	1940.7
67.5°	1832.4	1903.2	2048.9	2136.4	2161.4	2198.9	2194.7	2157.2	2003.2	1878.2	1778.3
70°	1603.4	1665.8	1757.4	1861.6	1874.0	1919.8	1878.2	1869.9	1769.9	1599.2	1545.0
72.5°	1286.8	1345.2	1465.9	1511.7	1515.9	1532.6	1511.7	1482.6	1457.6	1278.5	1224.4
75°	987.0	1020.3	1078.6	1120.3	1120.3	1141.1	1128.6	1099.4	1032.8	920.4	866.2
77.5°	687.2	720.5	795.4	820.4	816.3	824.6	787.1	757.9	658.0	599.7	553.9
80°	499.7	520.6	558.1	574.7	578.9	591.4	545.6	520.6	462.3	395.6	374.8
82.5°	362.3	374.8	379.0	399.8	399.8	379.0	366.5	341.5	299.8	258.2	241.5
85°	150.0	154.1	158.3	183.3	187.4	224.9	208.2	195.7	170.7	145.7	133.3
87.5°	37.5	41.6	54.2	45.8	54.2	54.2	58.3	66.6	66.6	54.2	54.2
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°	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7
2.5°	11356.7	11390.0	11814.8	11868.9	12077.1	12289.5	12718.4	13026.7	13276.5	13438.9	13484.8
5°	9611.7	9824.1	10019.8	10336.4	10623.7	11031.8	11502.4	12085.4	12818.4	13193.2	13343.1
7.5°	7525.3	7775.1	8058.4	8366.5	8787.2	9520.1	10148.9	10823.6	11760.6	12147.9	12735.1
10°	6142.7	6421.7	6796.5	7033.9	7541.9	8241.6	8974.6	9753.3	10648.7	11206.7	11885.5
12.5°	5430.5	5659.6	6005.2	6505.0	6883.9	7337.9	7883.4	8866.2	10148.9	10677.8	11144.3
15°	4643.4	4897.5	5297.3	5851.2	6305.1	6846.5	7458.7	8528.9	9895.0	10711.1	11106.8
17.5°	3993.7	4177.0	4597.7	5076.5	5597.1	6188.5	7067.2	8512.3	10161.5	11206.7	11852.2
20°	3544.0	3569.0	3798.0	4206.2	4914.1	5684.6	6825.6	8429.0	11015.2	12060.4	12876.7
22.5°	3260.8	3235.8	3240.0	3585.7	4081.2	5189.0	6446.7	8712.2	11985.5	13418.1	13967.8
25°	3119.3	3052.6	3010.9	3085.9	3535.6	4601.8	6159.3	9087.0	13030.8	14538.4	15213.0
27.5°	3044.3	2927.7	2844.3	2856.9	3185.9	4306.1	5980.3	9249.4	14067.7	16100.0	16337.4
30°	3015.2	2869.3	2748.6	2706.9	2923.5	3893.8	5597.1	9528.4	14996.5	16957.9	17162.0
32.5°	2911.0	2731.9	2615.3	2577.8	2665.3	3531.5	5322.3	9728.4	15816.9	17890.8	17820.0
35°	2790.3	2640.3	2494.6	2423.8	2486.2	3298.3	5101.5	9632.6	16783.1	18615.5	18577.9
37.5°	2777.7	2582.0	2461.3	2344.6	2340.5	3010.9	4801.7	9724.1	17399.4	19914.8	19402.5
40°	2669.5	2544.5	2386.3	2290.5	2236.4	2865.2	4510.2	9507.6	18303.1	20439.5	19935.6
42.5°	2673.6	2486.2	2348.8	2236.4	2182.2	2652.8	4310.3	9449.3	18619.6	21293.2	20185.4
45°	2607.0	2423.8	2307.1	2173.9	2144.7	2490.4	4118.7	9178.6	19177.7	21334.8	19873.1
47.5°	2540.3	2377.9	2253.0	2094.8	2028.2	2432.1	3968.8	8953.7	18886.1	20943.4	19440.0
50°	2494.6	2307.1	2190.6	2078.1	1890.7	2332.1	3773.1	8899.6	18478.0	20414.5	18636.2
52.5°	2415.4	2248.8	2128.1	2040.6	1740.8	2240.5	3698.1	9216.1	18977.8	20018.9	18403.0
55°	2340.5	2169.7	2015.6	1844.9	1615.8	1999.0	3489.9	9511.8	19706.6	20930.9	19460.8
57.5°	2261.4	2098.9	1932.4	1728.3	1495.0	1749.1	3273.3	9566.0	18340.6	19344.3	18473.8
60°	2157.2	1949.0	1824.0	1557.5	1366.0	1449.3	2594.5	8433.1	14226.0	16154.2	16183.4
62.5°	2040.6	1815.7	1707.5	1395.1	1232.7	1249.4	2115.6	7088.0	11539.9	13372.3	14167.7
65°	1886.5	1670.0	1540.9	1291.0	1136.9	1082.8	1549.2	5193.2	8766.3	10848.6	11752.3
67.5°	1686.6	1482.6	1320.1	1124.4	1016.2	928.7	1057.8	2923.5	5176.5	7283.7	7558.7
70°	1474.3	1299.3	1128.6	966.1	845.4	783.0	774.6	1295.1	2473.7	3918.8	4460.2
72.5°	1161.9	1037.0	899.5	778.8	699.6	608.0	553.9	537.2	837.0	1595.0	2203.0
75°	832.9	728.8	649.7	570.5	512.3	462.3	420.6	383.2	349.9	399.8	549.7
77.5°	524.7	487.3	424.8	403.9	370.6	358.2	341.5	320.7	295.7	279.0	279.0
80°	354.0	329.0	308.1	304.0	291.5	287.4	291.5	270.7	245.7	224.9	233.2
82.5°	237.4	233.2	229.1	224.9	229.1	233.2	241.5	237.4	216.6	204.0	208.2
85°	141.6	150.0	158.3	166.6	183.3	162.4	133.3	112.4	99.9	91.6	87.5
87.5°	54.2	74.9	66.6	62.5	66.6	62.5	58.3	54.2	45.8	41.6	41.6
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: P651464

CATALOG NUMBER: GALN-SA6D-840-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7	12751.7
2.5°	13788.8	13872.0	13942.9	13926.2	13780.4	13584.7	13505.5	13101.6	13018.3	12964.2
5°	13976.2	14459.2	14563.3	14500.9	14121.9	13643.0	13176.5	12585.2	12239.6	12227.0
7.5°	13630.5	14226.0	14413.4	14555.0	14051.1	13218.2	12418.6	11531.5	11315.0	11331.6
10°	12751.7	13701.3	14163.5	14309.3	13730.4	13010.0	11902.3	11002.7	10540.4	10532.1
12.5°	12264.6	13010.0	13139.1	13343.1	13172.4	12443.6	11602.4	10594.6	10144.8	10136.5
15°	11831.4	12322.8	12360.3	12647.6	12739.3	12247.9	11681.5	10607.0	10244.7	10207.2
17.5°	12210.4	11868.9	11727.3	11764.7	12035.5	12214.5	12139.6	11315.0	10944.4	10736.1
20°	12464.5	11702.3	11273.4	11315.0	11635.7	12289.5	12822.6	12339.5	11752.3	11777.3
22.5°	13143.2	11727.3	11056.8	11011.0	11519.1	12681.0	13593.0	13634.6	13068.3	12930.9
25°	14159.4	12014.7	10990.2	10977.7	11464.9	13101.6	14492.5	15167.2	14588.3	14334.3
27.5°	14975.6	12464.5	11198.4	11240.0	11635.7	13443.0	15258.9	16154.2	15712.7	15400.4
30°	15692.0	12930.9	11489.9	11298.3	12093.7	13622.2	15587.9	17278.6	16924.6	16666.4
32.5°	15987.6	13593.0	11952.2	11635.7	12472.8	13838.7	16270.8	18369.7	18065.7	17428.5
35°	16487.4	13963.6	12202.1	12177.1	13134.9	14359.3	16591.5	19090.2	18965.2	18398.9
37.5°	16887.1	14338.5	13089.1	12814.2	14042.8	15233.9	17107.9	20085.5	19798.1	19531.6
40°	17195.3	15009.0	13917.9	14280.2	15158.9	16029.3	17582.6	20148.0	20976.7	20202.1
42.5°	16912.2	15608.6	15279.6	16145.9	16978.8	16937.2	17636.8	20631.1	21251.6	20847.6
45°	16841.4	16624.8	17432.7	18219.8	18411.3	17690.9	17249.5	20098.0	21168.3	20989.2
47.5°	16670.6	17624.2	19031.9	20314.5	20023.0	18194.8	16787.2	20002.2	21218.3	20897.6
50°	16612.3	17840.8	20214.6	21464.0	21289.1	18632.1	16570.6	19385.9	20864.3	20835.1
52.5°	16608.2	18286.5	20706.0	22088.6	22196.9	19323.4	16866.3	19698.2	21139.1	21384.9
55°	16795.5	18144.8	20643.5	21743.0	21701.3	19015.3	16899.6	19906.5	21476.4	21718.0
57.5°	15841.8	16254.2	17037.1	17907.5	17682.6	15750.2	15092.2	18403.0	19710.7	19535.8
60°	13680.5	12389.4	11506.6	11464.9	11027.7	10423.8	12352.0	16424.9	16424.9	16254.2
62.5°	11981.3	8133.3	6988.0	6663.2	6975.6	7671.1	11914.7	15975.1	15521.2	15325.5
65°	10477.9	6209.3	5051.6	4960.0	5501.3	6550.8	10773.6	13609.7	12810.1	12160.4
67.5°	6742.4	4547.6	3756.4	3594.0	4247.8	4810.0	7171.3	8370.7	7866.8	7612.7
70°	4347.8	2961.0	2090.6	1961.5	2215.5	2965.1	4581.0	4880.8	4147.9	3977.1
72.5°	2057.3	1278.5	732.9	603.8	678.9	1132.7	1811.6	1949.0	1620.0	1482.6
75°	653.8	470.6	299.8	258.2	245.7	291.5	416.5	320.7	233.2	229.1
77.5°	291.5	279.0	237.4	199.9	174.9	145.7	120.8	99.9	104.1	108.2
80°	241.5	220.7	195.7	174.9	145.7	112.4	87.5	66.6	66.6	70.8
82.5°	212.4	191.6	170.7	145.7	125.0	91.6	66.6	45.8	41.6	41.6
85°	91.6	108.2	116.6	125.0	99.9	74.9	45.8	29.2	25.0	25.0
87.5°	37.5	33.3	29.2	25.0	20.9	20.9	16.7	12.5	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)