

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: P651239

Luminaire Tested: **GALN-SA2D-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7233.4 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

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

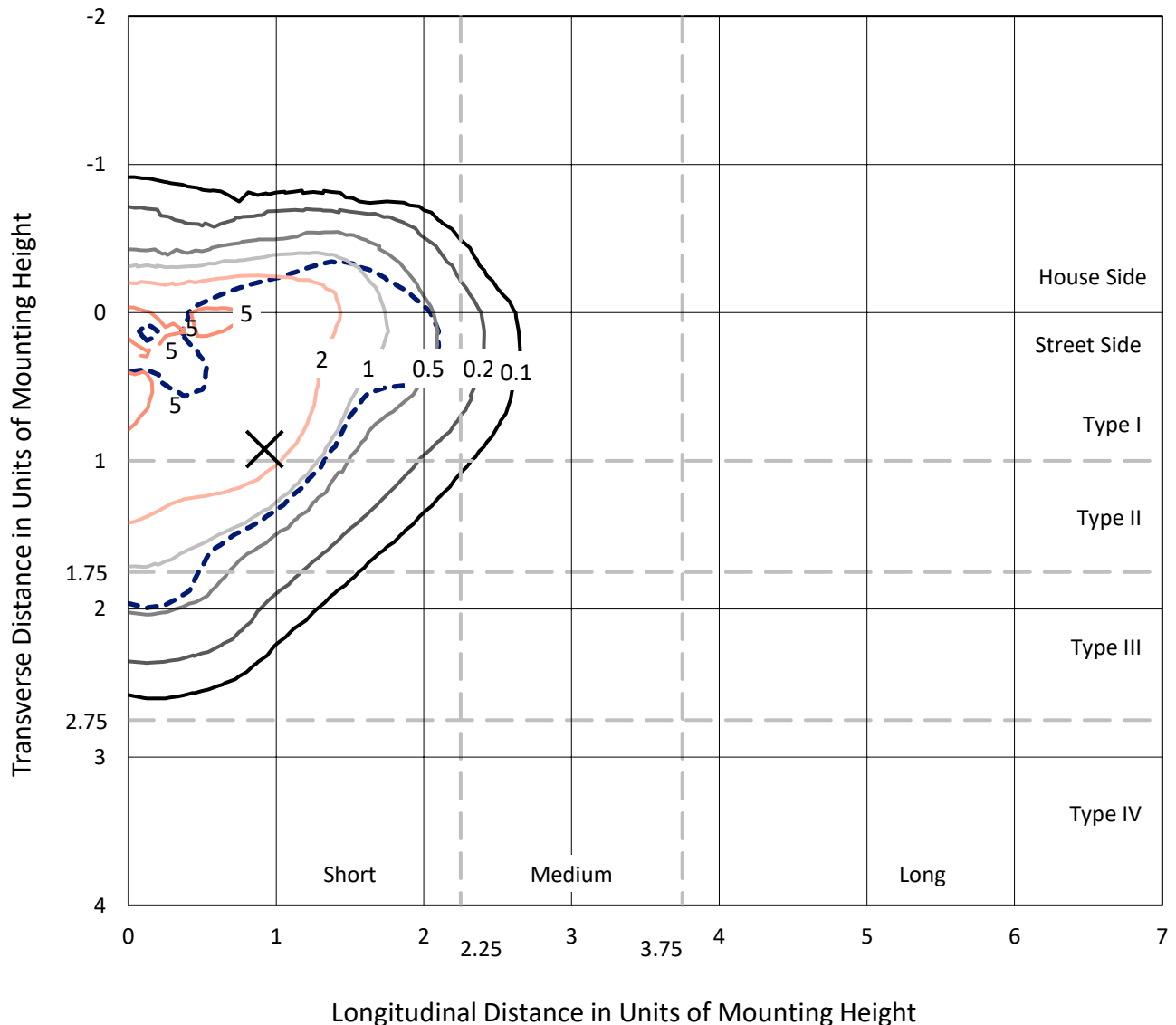




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Iso-Footcandle Lines of Horizontal Illumination

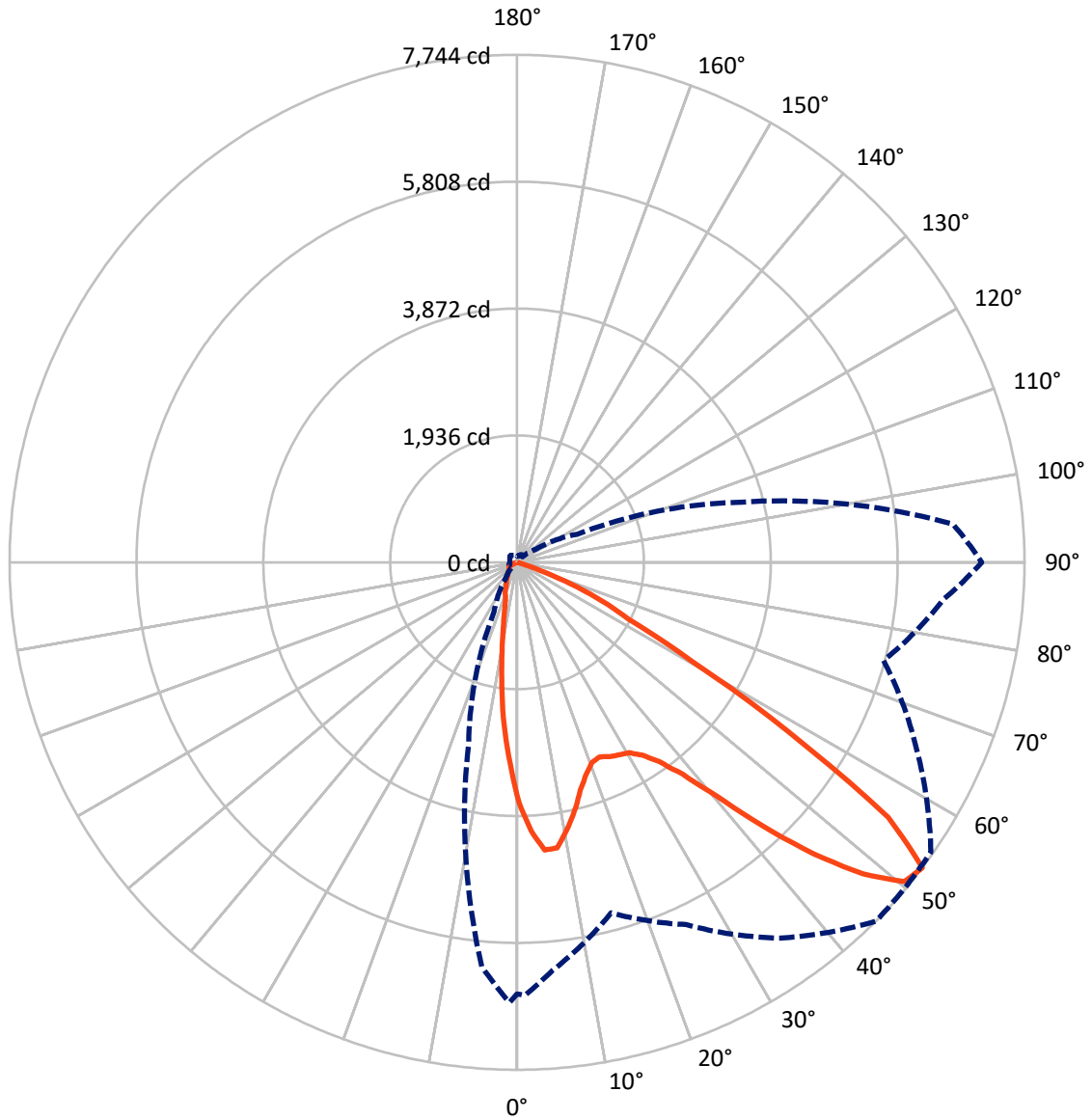
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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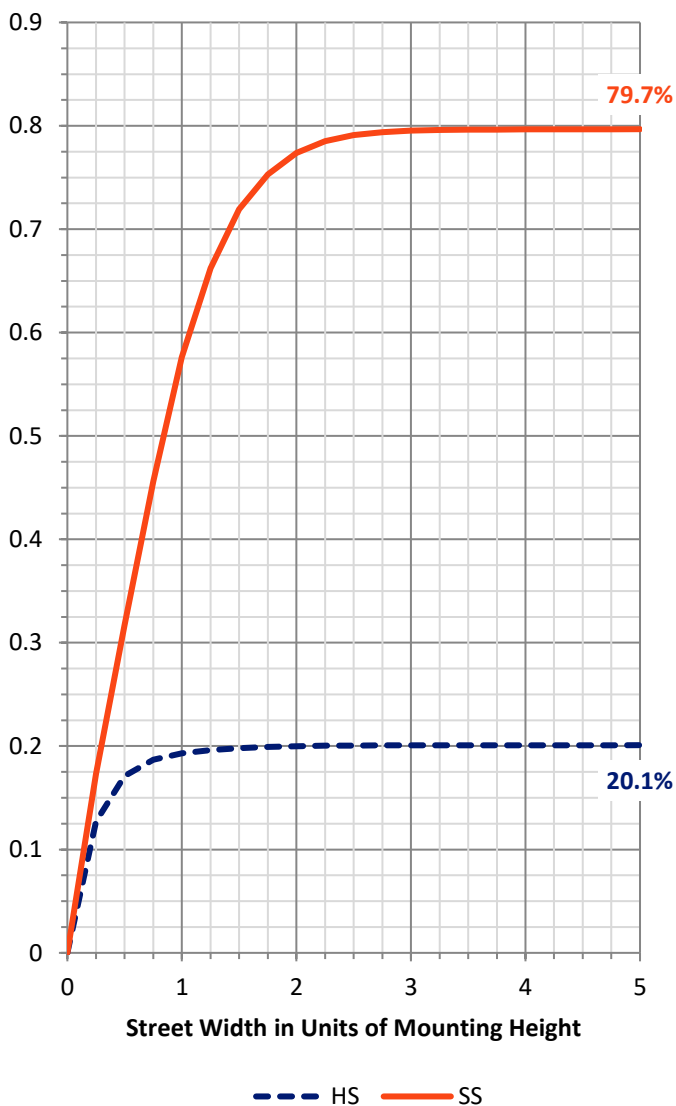
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1468.0	0.0	1468.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5765.4	0.0	5765.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	7233.4	0.0	7233.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.5	3.7
10°-20°	527.7	7.3
20°-30°	803.1	11.1
30°-40°	1200.3	16.6
40°-50°	1709.4	23.6
50°-60°	1837.6	25.4
60°-70°	814.3	11.3
70°-80°	65.9	0.9
80°-90°	7.7	0.1
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°	7233.4	100.0
0°-180°	7233.4	100.0

Coefficient of Utilization



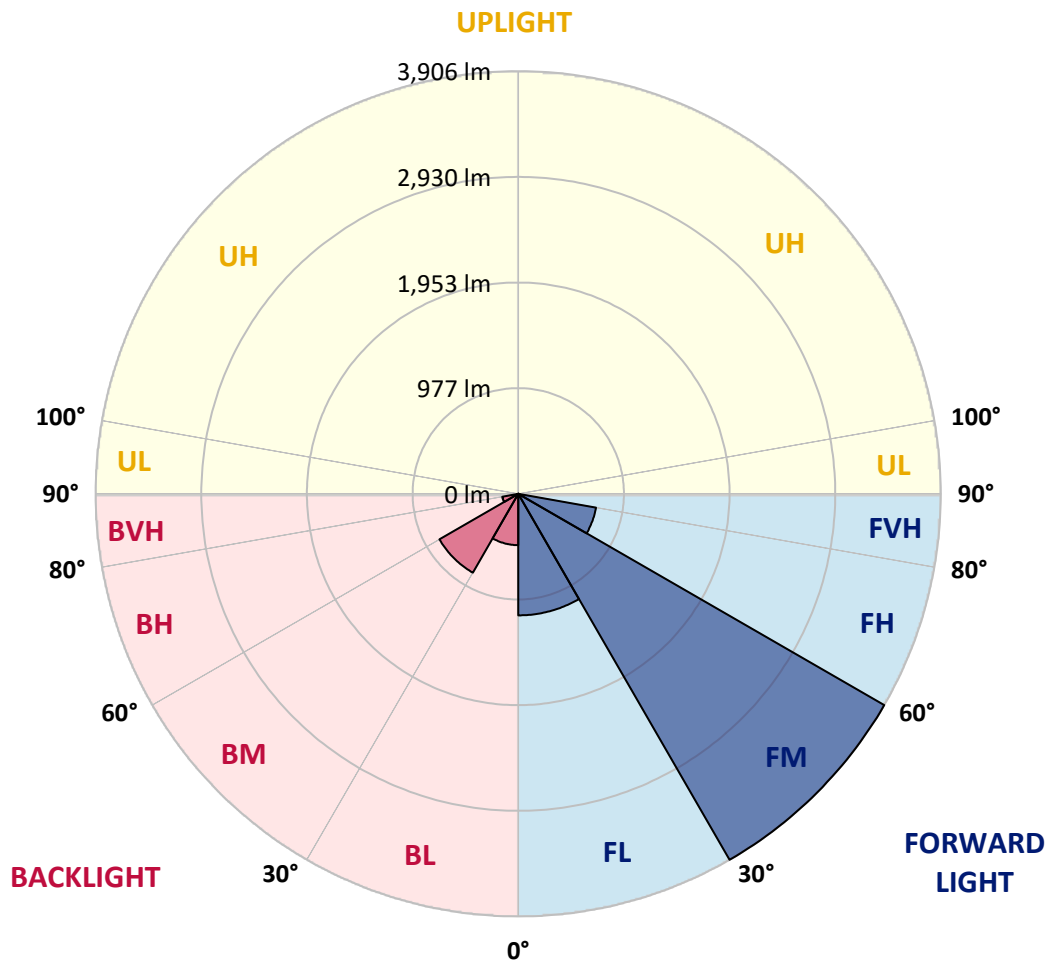
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1123.5	15.5			
FM (30°-60°)	3906.3	54.0			
FH (60°-80°)	729.9	10.1			G1/1800
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	474.8	6.6	B1/500		
BM (30°-60°)	841.0	11.6	B1/1000		
BH (60°-80°)	150.2	2.1	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7
2.5°	3881.1	3892.5	3955.1	4033.4	4074.6	4168.5	4103.1	4120.1	4084.6	3959.3	3861.2
5°	3763.0	3761.6	3841.3	4034.8	4218.3	4404.7	4410.4	4310.7	4135.8	3943.7	3669.1
7.5°	3407.3	3462.8	3545.3	3854.1	4194.1	4333.5	4400.4	4283.7	4014.8	3740.3	3442.9
10°	3138.4	3166.9	3306.3	3679.0	3928.1	4114.4	4155.6	4088.8	3882.5	3539.7	3206.7
12.5°	2983.4	2997.6	3161.2	3474.2	3737.4	3875.4	3895.3	3926.6	3778.7	3457.1	3057.4
15°	2984.8	2996.1	3216.7	3478.5	3582.3	3545.3	3610.7	3609.3	3673.4	3441.5	3182.5
17.5°	3199.6	3212.5	3411.6	3541.0	3495.5	3408.7	3404.5	3470.0	3605.1	3636.4	3371.7
20°	3569.5	3599.4	3745.9	3738.8	3482.7	3307.7	3259.4	3309.2	3623.6	3801.4	3753.0
22.5°	4067.5	4108.7	4211.1	4014.8	3541.0	3239.4	3223.8	3320.5	3745.9	4169.9	4185.6
25°	4645.1	4714.8	4764.6	4512.8	3748.8	3357.5	3283.6	3450.0	3911.0	4569.7	4736.1
27.5°	5027.8	5100.3	5089.0	4729.0	3888.2	3388.8	3326.2	3481.3	4054.6	4665.0	5023.5
30°	5326.6	5370.6	5450.4	4845.7	4027.6	3477.0	3370.3	3613.6	4101.6	4830.0	5370.6
32.5°	5675.1	5705.0	5710.6	5052.0	4242.4	3588.0	3506.9	3778.7	4309.3	4988.0	5677.9
35°	6026.5	6070.6	5978.2	5306.6	4374.8	3794.3	3734.5	4064.6	4475.8	5151.5	6016.5
37.5°	6407.7	6430.5	6217.2	5411.9	4564.0	4130.1	4097.4	4373.4	4764.6	5447.5	6392.1
40°	6727.9	6749.2	6471.8	5541.3	4763.2	4599.5	4683.5	4962.3	5157.3	5639.6	6579.9
42.5°	6905.7	6955.5	6557.2	5470.2	5162.9	5131.6	5504.3	5602.6	5612.5	5693.6	6747.8
45°	6954.1	6931.4	6416.3	5528.6	5512.9	6006.6	6345.2	6474.7	6065.0	5793.2	6790.5
47.5°	6730.8	6760.6	6208.6	5477.3	5972.4	6669.6	7107.7	7348.2	6402.1	5706.4	6685.2
50°	6550.0	6511.6	6141.7	5440.3	6096.2	6982.6	7658.3	7712.4	6712.3	5813.1	6570.0
52.5°	6585.6	6609.8	6248.5	5538.5	6099.1	7001.1	7743.7	7706.7	6722.2	5788.9	6528.7
55°	6661.1	6554.3	6202.9	5322.3	5690.8	6484.6	6873.0	6816.1	6204.3	5531.4	6427.7
57.5°	5747.6	5912.7	5703.6	4751.8	4670.7	4885.5	4878.4	5053.4	4628.0	4760.3	5851.5
60°	4665.0	4693.5	4771.7	4064.6	3232.4	3158.4	3055.9	2944.9	3114.2	4070.3	5322.3
62.5°	4103.1	4068.9	4347.7	3697.5	2282.0	1910.7	1893.6	1961.9	2402.9	3882.5	4992.2
65°	2981.9	3024.7	3226.7	2869.6	1712.9	1458.3	1432.6	1634.7	1944.8	3111.4	3810.0
67.5°	1821.0	1903.5	1922.0	1769.8	1162.3	923.3	886.3	1069.8	1404.2	2013.1	2233.6
70°	840.8	940.4	1034.3	966.0	673.0	379.9	358.5	449.6	708.5	1158.1	1185.1
72.5°	254.7	256.1	358.5	374.2	217.7	85.4	75.4	99.6	240.4	382.7	402.6
75°	18.5	19.9	48.4	55.5	41.3	21.4	22.8	27.0	51.2	85.4	64.0
77.5°	1.4	1.4	1.4	7.1	12.8	14.2	18.5	21.4	27.0	31.3	28.4
80°	1.4	0.0	1.4	5.7	9.9	14.2	17.1	19.9	21.4	24.2	21.4
82.5°	0.0	0.0	0.0	4.3	9.9	14.2	15.6	21.4	24.2	28.4	24.2
85°	0.0	0.0	0.0	4.3	9.9	15.6	14.2	7.1	0.0	0.0	0.0
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7
2.5°	3878.3	3822.8	3696.1	3632.1	3481.3	3460.0	3312.0	3287.8	3238.0	3211.0	3145.6
5°	3548.2	3481.3	3275.0	3101.4	2899.4	2758.6	2650.5	2552.3	2495.4	2442.8	2466.9
7.5°	3279.3	3084.4	2855.4	2565.1	2331.8	2181.0	2016.0	1880.8	1801.1	1747.1	1759.9
10°	2997.6	2871.0	2552.3	2226.5	1944.8	1838.1	1708.7	1604.8	1492.4	1395.6	1350.1
12.5°	2909.4	2721.6	2321.8	1990.3	1776.9	1673.1	1525.2	1405.6	1261.9	1143.8	1102.6
15°	2925.1	2744.4	2259.3	1904.9	1653.2	1473.9	1297.5	1149.6	991.6	909.1	866.4
17.5°	3179.7	2866.7	2300.5	1815.4	1481.0	1232.1	1014.4	826.6	708.5	623.1	604.7
20°	3492.7	3131.3	2388.7	1749.9	1340.1	980.3	741.3	579.0	480.9	466.7	462.4
22.5°	3950.8	3563.8	2577.9	1705.8	1168.1	764.0	507.9	421.1	394.1	391.2	392.7
25°	4591.0	4105.8	2784.2	1668.8	1038.6	589.0	415.5	357.1	348.6	344.3	351.4
27.5°	4868.5	4433.1	2893.7	1589.2	920.5	530.7	409.7	354.2	330.1	322.9	327.2
30°	5211.3	4650.7	3065.9	1452.6	746.9	436.7	382.7	385.5	374.2	338.6	327.2
32.5°	5666.6	4922.5	3152.7	1355.9	667.2	361.4	280.3	257.5	287.4	293.1	303.0
35°	5958.2	5198.5	3196.8	1298.9	626.0	308.7	237.6	216.2	209.2	210.6	216.2
37.5°	6500.3	5571.3	3252.2	1239.1	594.7	268.9	214.8	194.9	184.9	184.9	190.7
40°	6824.6	5867.2	3327.7	1206.4	563.4	244.7	194.9	177.9	169.3	169.3	172.2
42.5°	6905.7	6013.7	3302.0	1195.1	527.8	239.0	177.9	165.0	155.1	153.7	152.2
45°	7050.9	6237.0	3306.3	1182.3	490.8	217.7	167.9	153.7	139.4	138.0	136.6
47.5°	7210.1	6397.8	3314.9	1132.5	455.2	182.1	175.0	142.3	125.2	122.4	122.4
50°	7073.6	6525.9	3388.8	1082.7	409.7	147.9	172.2	133.7	110.9	106.7	108.2
52.5°	7090.6	6676.7	3545.3	1013.0	352.8	118.1	139.4	126.7	101.0	93.9	95.3
55°	6817.5	6517.3	3566.7	939.0	276.0	91.1	106.7	110.9	85.4	82.5	82.5
57.5°	5868.6	5518.6	3147.0	761.1	182.1	75.4	76.8	96.7	74.0	71.1	72.6
60°	5022.1	4430.2	2532.4	502.2	113.8	59.7	55.5	98.1	65.4	64.0	68.3
62.5°	4578.2	3640.7	1920.6	311.6	78.2	45.5	38.4	79.6	56.9	56.9	62.6
65°	3307.7	2445.6	1116.8	163.6	55.5	35.6	28.4	45.5	46.9	48.4	51.2
67.5°	2048.7	1234.9	470.9	79.6	37.0	24.2	18.5	28.4	31.3	31.3	34.1
70°	1011.6	492.2	156.5	45.5	28.4	19.9	12.8	15.6	15.6	14.2	15.6
72.5°	313.0	147.9	39.9	28.4	19.9	12.8	7.1	5.7	2.9	0.0	1.4
75°	35.6	28.4	25.6	19.9	12.8	5.7	1.4	0.0	0.0	0.0	0.0
77.5°	21.4	24.2	24.2	19.9	12.8	4.3	0.0	0.0	0.0	0.0	0.0
80°	17.1	18.5	19.9	18.5	11.4	5.7	0.0	0.0	0.0	0.0	0.0
82.5°	21.4	24.2	27.0	24.2	15.6	7.1	2.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.3	1.4	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7
2.5°	3118.5	3087.2	3131.3	3065.9	3064.4	3065.9	3047.4	3030.3	3057.4	3129.9	3137.0
5°	2380.2	2447.1	2468.3	2538.1	2499.7	2442.8	2454.1	2415.7	2509.6	2550.9	2518.1
7.5°	1732.8	1728.6	1872.2	1880.8	1899.3	1900.7	1897.9	1822.4	1745.7	1762.7	1814.0
10°	1344.4	1271.8	1341.6	1334.5	1380.0	1367.2	1385.7	1304.6	1331.6	1331.6	1364.4
12.5°	1095.5	1018.6	1005.8	987.3	1005.8	1013.0	1020.0	1004.4	1049.9	1071.3	1094.1
15°	836.5	793.8	782.5	746.9	752.6	772.5	789.6	796.7	782.5	815.2	818.0
17.5°	607.5	606.0	613.2	611.7	606.0	601.8	600.4	581.9	576.2	579.0	590.4
20°	461.0	472.3	496.5	520.7	533.5	517.9	496.5	465.2	452.4	455.2	456.7
22.5°	394.1	411.2	443.9	470.9	483.7	455.2	416.9	389.8	384.1	382.7	381.3
25°	357.1	377.0	401.2	409.7	408.3	391.2	362.8	351.4	348.6	345.7	332.9
27.5°	337.2	344.3	348.6	358.5	362.8	351.4	344.3	327.2	324.4	324.4	315.8
30°	325.8	321.5	327.2	320.1	325.8	317.2	318.7	318.7	311.6	314.4	314.4
32.5°	303.0	304.4	304.4	290.2	294.5	284.5	294.5	303.0	304.4	305.9	317.2
35°	221.9	247.5	260.4	260.4	264.6	257.5	256.1	246.2	233.3	220.5	214.8
37.5°	194.9	204.9	221.9	231.9	239.0	233.3	220.5	204.9	197.7	192.1	186.4
40°	173.6	182.1	193.5	204.9	219.1	212.0	192.1	184.9	176.4	176.4	170.7
42.5°	156.5	160.8	167.9	184.9	200.6	186.4	172.2	166.4	162.1	160.8	159.4
45°	140.9	142.3	149.4	163.6	182.1	167.9	153.7	146.5	147.9	149.4	147.9
47.5°	126.7	129.4	133.7	150.8	162.1	155.1	139.4	135.1	135.1	135.1	136.6
50°	109.6	116.6	125.2	139.4	147.9	143.7	130.9	125.2	122.4	122.4	123.8
52.5°	98.1	103.9	115.2	132.3	143.7	136.6	123.8	115.2	109.6	108.2	110.9
55°	85.4	95.3	113.8	126.7	142.3	135.1	120.9	110.9	101.0	99.6	99.6
57.5°	76.8	92.5	109.6	125.2	138.0	132.3	120.9	108.2	95.3	93.9	93.9
60°	72.6	89.7	106.7	120.9	138.0	129.4	119.5	105.3	91.1	91.1	89.7
62.5°	68.3	83.9	101.0	115.2	132.3	125.2	115.2	101.0	86.8	86.8	83.9
65°	56.9	72.6	83.9	96.7	115.2	108.2	98.1	88.2	76.8	74.0	75.4
67.5°	39.9	49.8	61.1	74.0	85.4	82.5	78.2	71.1	61.1	59.7	58.4
70°	19.9	27.0	37.0	49.8	59.7	56.9	54.1	48.4	42.6	41.3	41.3
72.5°	2.9	8.5	15.6	22.8	31.3	32.7	31.3	29.9	28.4	27.0	28.4
75°	0.0	0.0	0.0	5.7	12.8	15.6	18.5	21.4	21.4	18.5	22.8
77.5°	0.0	0.0	0.0	0.0	1.4	7.1	14.2	18.5	22.8	19.9	27.0
80°	0.0	0.0	0.0	0.0	1.4	8.5	14.2	19.9	22.8	19.9	28.4
82.5°	0.0	0.0	0.0	0.0	1.4	9.9	14.2	18.5	21.4	19.9	25.6
85°	0.0	0.0	0.0	0.0	4.3	8.5	5.7	2.9	1.4	1.4	4.3
87.5°	0.0	0.0	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



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CATALOG NUMBER: GALN-SA2D-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7	3667.7
2.5°	3176.9	3277.9	3386.0	3427.2	3555.3	3652.0	3717.5	3858.3	3879.7	3881.1
5°	2552.3	2603.5	2788.5	2875.3	3065.9	3213.9	3371.7	3599.4	3751.6	3763.0
7.5°	1814.0	1956.2	2034.5	2260.7	2495.4	2727.3	2962.0	3226.7	3403.1	3407.3
10°	1459.6	1552.1	1691.6	1860.9	2058.6	2294.8	2607.8	2915.1	3094.4	3138.4
12.5°	1175.1	1337.4	1496.6	1671.7	1822.4	2000.3	2337.5	2747.2	2895.1	2983.4
15°	904.8	1052.8	1240.6	1445.4	1616.1	1853.7	2237.9	2705.9	2954.9	2984.8
17.5°	667.2	799.5	973.1	1166.6	1422.7	1759.9	2255.0	2915.1	3149.8	3199.6
20°	479.5	556.2	692.8	917.6	1243.4	1650.3	2272.0	3127.1	3484.2	3569.5
22.5°	379.9	411.2	500.8	700.0	1042.8	1535.1	2393.0	3532.5	3943.7	4067.5
25°	330.1	347.2	389.8	552.0	916.2	1523.7	2586.4	4019.1	4555.4	4645.1
27.5°	318.7	321.5	358.5	506.5	847.9	1448.3	2660.4	4364.8	4936.8	5027.8
30°	335.7	381.3	384.1	428.2	721.3	1298.9	2698.9	4699.2	5259.7	5326.6
32.5°	290.2	276.0	285.9	331.5	634.5	1212.1	2771.4	4990.8	5628.1	5675.1
35°	202.0	212.0	234.7	287.4	554.8	1121.1	2789.9	5312.3	5978.2	6026.5
37.5°	186.4	192.1	210.6	244.7	487.9	1069.8	2764.3	5547.1	6340.9	6407.7
40°	173.6	180.6	190.7	221.9	438.2	1013.0	2728.7	5759.1	6562.8	6727.9
42.5°	163.6	169.3	177.9	212.0	395.5	956.0	2678.9	6057.8	6762.1	6905.7
45°	152.2	160.8	170.7	206.3	371.3	917.6	2641.9	6039.3	6877.3	6954.1
47.5°	140.9	155.1	166.4	192.1	364.2	899.1	2657.6	5969.6	6783.3	6730.8
50°	129.4	147.9	167.9	159.4	347.2	862.1	2676.1	6065.0	6560.1	6550.0
52.5°	119.5	140.9	156.5	130.9	308.7	826.6	2855.4	6190.1	6717.9	6585.6
55°	105.3	126.7	125.2	105.3	250.4	799.5	2996.1	6193.0	6611.3	6661.1
57.5°	95.3	112.4	98.1	88.2	184.9	668.7	2767.1	5192.8	5659.4	5747.6
60°	88.2	109.6	74.0	69.7	120.9	482.3	2415.7	4021.9	4498.5	4665.0
62.5°	81.1	103.9	58.4	56.9	83.9	342.9	1986.1	3366.1	3876.8	4103.1
65°	71.1	74.0	46.9	44.1	59.7	184.9	1209.3	2317.5	2898.0	2981.9
67.5°	58.4	56.9	38.4	35.6	39.9	89.7	533.5	1160.9	1680.2	1821.0
70°	46.9	46.9	32.7	28.4	28.4	41.3	139.4	462.4	759.7	840.8
72.5°	34.1	35.6	25.6	22.8	21.4	19.9	22.8	92.5	199.1	254.7
75°	29.9	31.3	25.6	19.9	15.6	12.8	9.9	8.5	11.4	18.5
77.5°	32.7	32.7	27.0	18.5	14.2	9.9	5.7	2.9	2.9	1.4
80°	41.3	42.6	35.6	24.2	17.1	11.4	7.1	2.9	1.4	1.4
82.5°	44.1	48.4	39.9	29.9	21.4	12.8	7.1	1.4	0.0	0.0
85°	11.4	18.5	31.3	27.0	21.4	12.8	7.1	1.4	0.0	0.0
87.5°	0.0	1.4	4.3	4.3	5.7	5.7	4.3	1.4	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

(END OF REPORT)