

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: P651294

Luminaire Tested: **GALN-SA3D-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651294
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-SA3D-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 10737 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 184
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

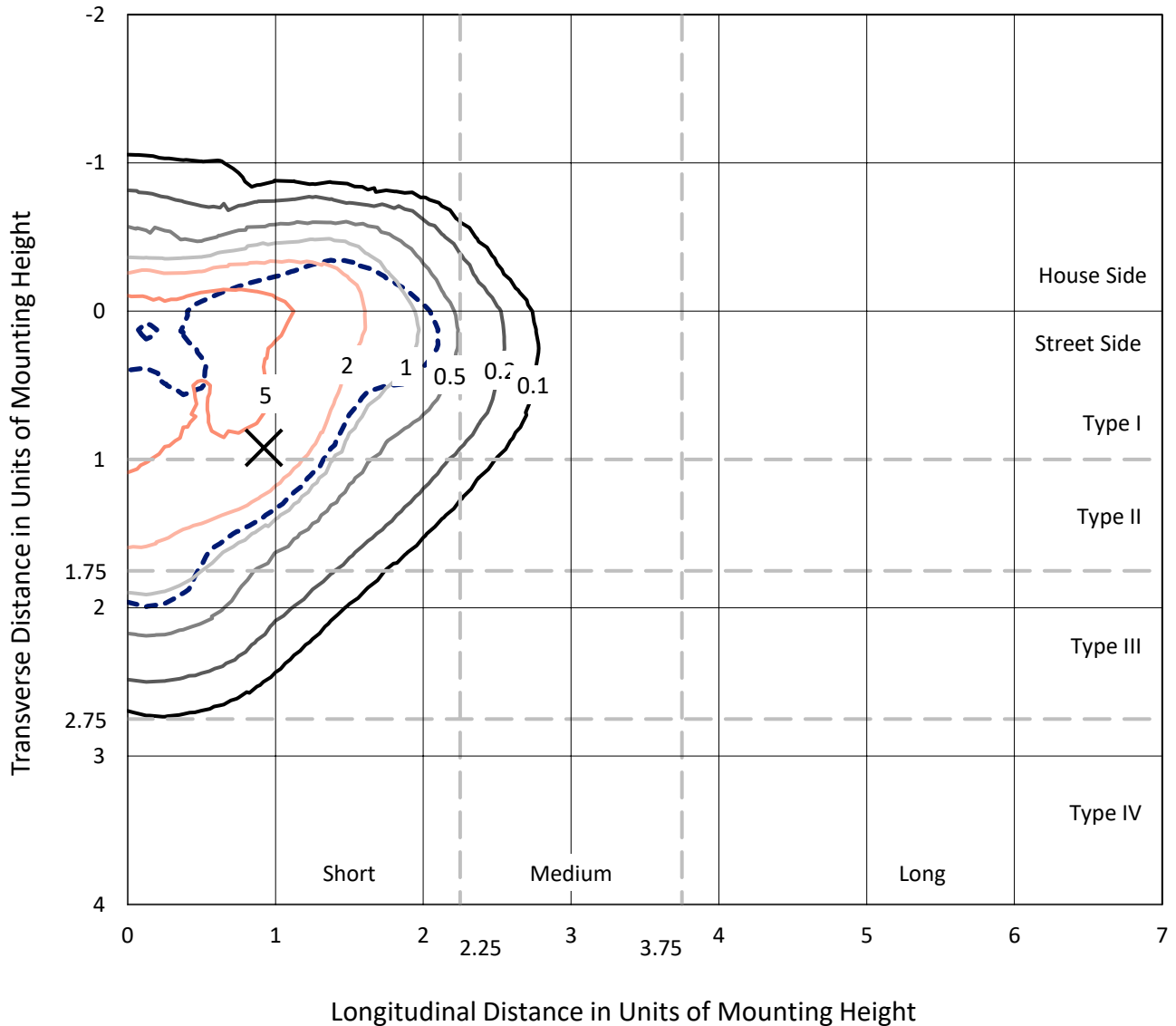




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Iso-Footcandle Lines of Horizontal Illumination

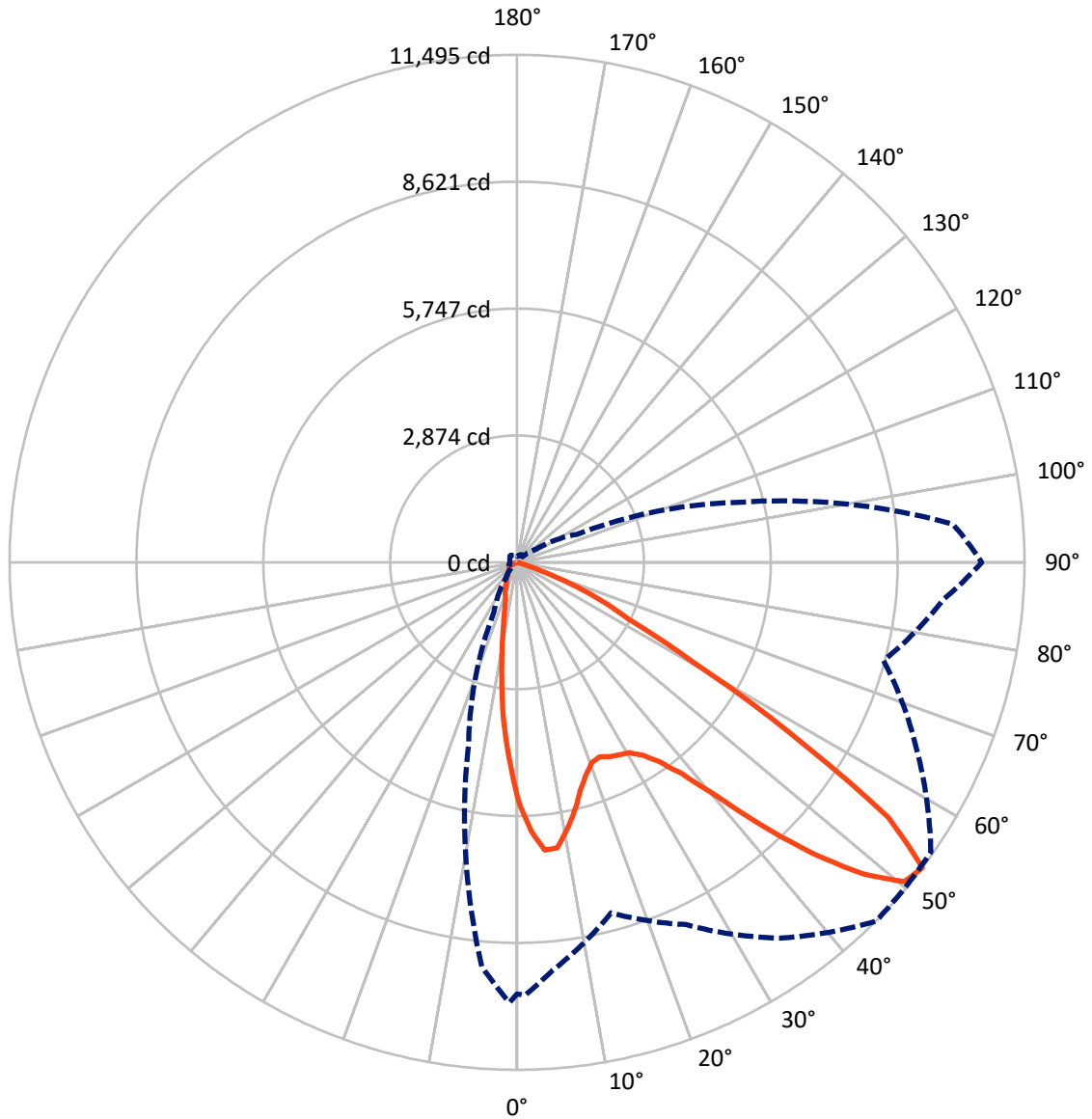
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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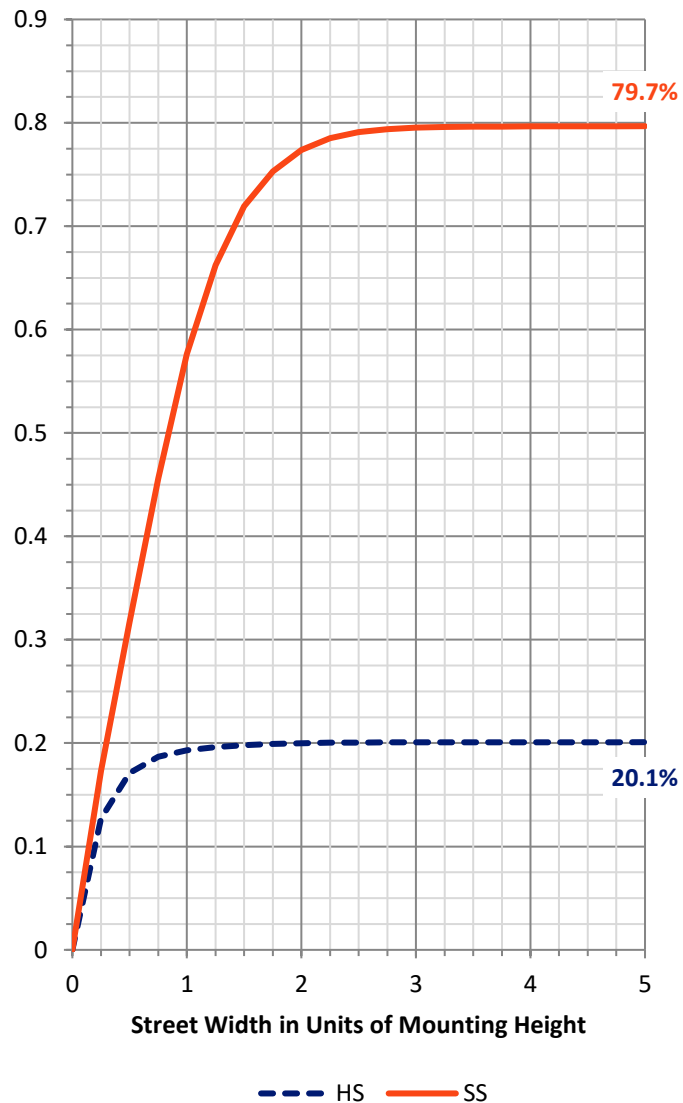
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2179.1	0.0	2179.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	8558.0	0.0	8558.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	10737.0	0.0	10737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.0	3.7
10°-20°	783.3	7.3
20°-30°	1192.1	11.1
30°-40°	1781.7	16.6
40°-50°	2537.4	23.6
50°-60°	2727.6	25.4
60°-70°	1208.7	11.3
70°-80°	97.8	0.9
80°-90°	11.4	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°	10737.0	100.0
0°-180°	10737.0	100.0

Coefficient of Utilization



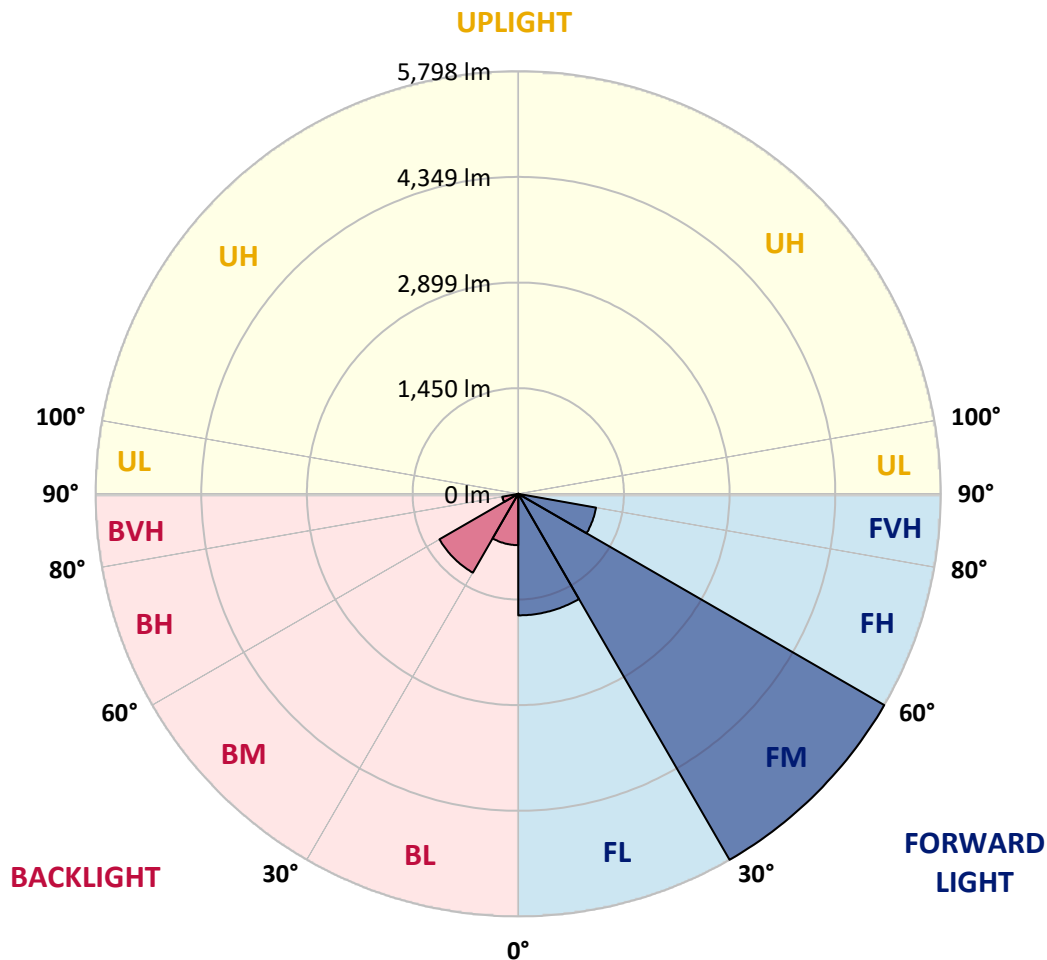
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.7	15.5			
FM (30°-60°)	5798.3	54.0			
FH (60°-80°)	1083.5	10.1			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	704.8	6.6	B2/1000		
BM (30°-60°)	1248.4	11.6	B2/2500		
BH (60°-80°)	222.9	2.1	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2
2.5°	5760.9	5777.8	5870.8	5986.9	6048.1	6187.5	6090.4	6115.8	6062.9	5877.1	5731.4
5°	5585.7	5583.6	5701.8	5989.0	6261.4	6538.1	6546.5	6398.7	6139.0	5853.9	5446.3
7.5°	5057.7	5140.1	5262.6	5720.8	6225.5	6432.5	6531.7	6358.5	5959.5	5551.9	5110.5
10°	4658.6	4700.9	4907.8	5461.1	5830.7	6107.3	6168.5	6069.2	5763.0	5254.1	4760.0
12.5°	4428.5	4449.6	4692.4	5157.0	5547.7	5752.5	5782.0	5828.6	5608.9	5131.6	4538.2
15°	4430.6	4447.5	4774.8	5163.3	5317.5	5262.6	5359.7	5357.6	5452.6	5108.4	4724.1
17.5°	4749.4	4768.4	5064.1	5256.2	5188.6	5059.9	5053.5	5150.6	5351.3	5397.7	5005.0
20°	5298.5	5342.8	5560.4	5549.8	5169.6	4909.9	4838.1	4912.0	5378.7	5642.7	5570.9
22.5°	6037.6	6098.8	6250.9	5959.5	5256.2	4808.5	4785.3	4928.9	5560.4	6189.7	6212.9
25°	6894.9	6998.5	7072.4	6698.6	5564.6	4983.9	4874.0	5121.1	5805.3	6783.1	7030.2
27.5°	7463.0	7570.8	7553.9	7019.6	5771.5	5030.3	4937.3	5167.5	6018.6	6924.5	7456.7
30°	7906.5	7972.0	8090.3	7192.7	5978.5	5161.2	5002.9	5363.9	6088.3	7169.5	7972.0
32.5°	8423.9	8468.3	8476.7	7498.9	6297.3	5325.9	5205.5	5608.9	6396.6	7403.9	8428.2
35°	8945.5	9011.0	8873.7	7877.0	6493.7	5632.1	5543.5	6033.3	6643.6	7646.8	8930.7
37.5°	9511.5	9545.3	9228.5	8033.2	6774.6	6130.6	6081.9	6491.6	7072.4	8086.0	9488.2
40°	9986.6	10018.3	9606.5	8225.4	7070.3	6827.4	6952.0	7365.9	7655.2	8371.1	9767.0
42.5°	10250.6	10324.5	9733.2	8119.9	7663.7	7617.2	8170.5	8316.2	8331.0	8451.4	10016.2
45°	10322.4	10288.6	9524.2	8206.4	8183.2	8915.9	9418.5	9610.7	9002.6	8599.2	10079.6
47.5°	9990.8	10035.2	9215.8	8130.4	8865.2	9900.1	10550.5	10907.3	9503.0	8470.4	9923.3
50°	9722.6	9665.6	9116.6	8075.5	9049.0	10364.7	11367.7	11448.0	9963.4	8628.7	9752.2
52.5°	9775.4	9811.4	9275.0	8221.2	9053.2	10392.1	11494.5	11439.5	9978.2	8592.8	9691.0
55°	9887.4	9729.0	9207.4	7900.2	8447.2	9625.5	10202.0	10117.6	9209.5	8210.6	9541.1
57.5°	8531.6	8776.6	8466.2	7053.4	6933.0	7251.9	7241.3	7501.0	6869.6	7066.0	8685.8
60°	6924.5	6966.8	7082.9	6033.3	4798.0	4688.2	4536.1	4371.4	4622.7	6041.8	7900.2
62.5°	6090.4	6039.7	6453.6	5488.5	3387.3	2836.1	2810.8	2912.1	3566.8	5763.0	7410.2
65°	4426.3	4489.7	4789.5	4259.5	2542.6	2164.6	2126.6	2426.5	2886.8	4618.4	5655.4
67.5°	2703.1	2825.6	2853.0	2627.0	1725.3	1370.6	1315.7	1588.1	2084.3	2988.2	3315.5
70°	1248.0	1395.9	1535.2	1433.9	998.9	563.8	532.2	667.3	1051.7	1719.0	1759.1
72.5°	378.0	380.1	532.2	555.4	323.1	126.7	111.9	147.8	356.9	568.1	597.6
75°	27.4	29.6	71.8	82.3	61.2	31.7	33.8	40.1	76.0	126.7	95.0
77.5°	2.1	2.1	2.1	10.6	19.0	21.1	27.4	31.7	40.1	46.4	42.2
80°	2.1	0.0	2.1	8.4	14.8	21.1	25.3	29.6	31.7	35.9	31.7
82.5°	0.0	0.0	0.0	6.3	14.8	21.1	23.2	31.7	35.9	42.2	35.9
85°	0.0	0.0	0.0	6.3	14.8	23.2	21.1	10.6	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°	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2
2.5°	5756.7	5674.4	5486.4	5391.4	5167.5	5135.9	4916.2	4880.3	4806.4	4766.3	4669.1
5°	5266.8	5167.5	4861.3	4603.7	4303.8	4094.7	3934.3	3788.5	3704.1	3626.0	3661.8
7.5°	4867.6	4578.3	4238.4	3807.5	3461.2	3237.3	2992.4	2791.8	2673.5	2593.3	2612.3
10°	4449.6	4261.6	3788.5	3305.0	2886.8	2728.5	2536.3	2382.1	2215.3	2071.6	2004.1
12.5°	4318.6	4039.8	3446.4	2954.3	2637.6	2483.5	2263.8	2086.4	1873.2	1697.9	1636.7
15°	4341.8	4073.6	3353.5	2827.7	2453.9	2187.8	1926.0	1706.3	1471.9	1349.5	1286.1
17.5°	4719.9	4255.2	3414.8	2694.6	2198.4	1828.8	1505.7	1226.9	1051.7	924.9	897.5
20°	5184.4	4648.0	3545.7	2597.5	1989.3	1455.0	1100.3	859.5	713.8	692.6	686.3
22.5°	5864.5	5290.1	3826.6	2532.0	1733.8	1134.0	753.9	625.1	585.0	580.7	582.8
25°	6814.7	6094.6	4132.8	2477.2	1541.6	874.3	616.6	530.1	517.4	511.1	521.6
27.5°	7226.5	6580.3	4295.4	2358.8	1366.3	787.7	608.2	525.8	490.0	479.4	485.7
30°	7735.4	6903.4	4550.9	2156.2	1108.7	648.3	568.1	572.3	555.4	502.6	485.7
32.5°	8411.3	7306.8	4679.7	2012.5	990.4	536.4	416.0	382.2	426.6	435.0	449.9
35°	8844.1	7716.4	4745.2	1928.1	929.2	458.3	352.6	321.0	310.4	312.5	321.0
37.5°	9648.7	8269.7	4827.5	1839.4	882.7	399.1	318.9	289.3	274.5	274.5	283.0
40°	10130.3	8709.0	4939.4	1790.8	836.3	363.2	289.3	264.0	251.3	251.3	255.5
42.5°	10250.6	8926.5	4901.4	1773.9	783.5	354.8	264.0	245.0	230.2	228.1	226.0
45°	10466.0	9258.1	4907.8	1754.9	728.6	323.1	249.2	228.1	207.0	204.9	202.8
47.5°	10702.6	9496.7	4920.4	1681.0	675.7	270.3	259.8	211.2	185.9	181.6	181.6
50°	10499.8	9686.7	5030.3	1607.1	608.2	219.6	255.5	198.5	164.8	158.4	160.5
52.5°	10525.1	9910.6	5262.6	1503.6	523.7	175.3	207.0	188.0	150.0	139.4	141.5
55°	10119.7	9674.1	5294.3	1393.8	409.7	135.1	158.4	164.8	126.7	122.4	122.4
57.5°	8711.1	8191.6	4671.3	1129.8	270.3	111.9	114.0	143.6	109.8	105.6	107.7
60°	7454.6	6576.1	3759.0	745.5	169.0	88.7	82.3	145.7	97.1	95.0	101.3
62.5°	6795.7	5404.1	2850.9	462.5	116.1	67.6	57.0	118.2	84.4	84.4	92.9
65°	4909.9	3630.2	1657.8	242.9	82.3	52.8	42.2	67.6	69.7	71.8	76.0
67.5°	3041.0	1833.0	699.0	118.2	54.9	35.9	27.4	42.2	46.4	46.4	50.7
70°	1501.4	730.7	232.3	67.6	42.2	29.6	19.0	23.2	23.2	21.1	23.2
72.5°	464.6	219.6	59.1	42.2	29.6	19.0	10.6	8.4	4.2	0.0	2.1
75°	52.8	42.2	38.0	29.6	19.0	8.4	2.1	0.0	0.0	0.0	0.0
77.5°	31.7	35.9	35.9	29.6	19.0	6.3	0.0	0.0	0.0	0.0	0.0
80°	25.3	27.4	29.6	27.4	16.9	8.4	0.0	0.0	0.0	0.0	0.0
82.5°	31.7	35.9	40.1	35.9	23.2	10.6	4.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.3	2.1	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°	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2
2.5°	4629.0	4582.6	4648.0	4550.9	4548.8	4550.9	4523.4	4498.1	4538.2	4645.9	4656.4
5°	3533.0	3632.3	3664.0	3767.4	3710.4	3626.0	3642.8	3585.8	3725.2	3786.4	3737.8
7.5°	2572.1	2565.8	2779.1	2791.8	2819.2	2821.4	2817.1	2705.2	2591.1	2616.5	2692.5
10°	1995.6	1888.0	1991.4	1980.9	2048.4	2029.4	2056.9	1936.5	1976.6	1976.6	2025.2
12.5°	1626.1	1512.0	1493.0	1465.6	1493.0	1503.6	1514.1	1490.9	1558.5	1590.2	1624.0
15°	1241.7	1178.4	1161.5	1108.7	1117.1	1146.7	1172.0	1182.6	1161.5	1210.0	1214.2
17.5°	901.7	899.6	910.2	908.0	899.6	893.3	891.2	863.7	855.3	859.5	876.4
20°	684.2	701.1	737.1	772.9	791.9	768.7	737.1	690.5	671.5	675.7	677.8
22.5°	585.0	610.3	658.8	699.0	718.0	675.7	618.7	578.6	570.2	568.1	566.0
25°	530.1	559.6	595.5	608.2	606.1	580.7	538.5	521.6	517.4	513.2	494.2
27.5°	500.5	511.1	517.4	532.2	538.5	521.6	511.1	485.7	481.5	481.5	468.9
30°	483.6	477.3	485.7	475.2	483.6	471.0	473.1	473.1	462.5	466.7	466.7
32.5°	449.9	452.0	452.0	430.8	437.2	422.4	437.2	449.9	452.0	454.1	471.0
35°	329.4	367.4	386.4	386.4	392.8	382.2	380.1	365.3	346.3	327.3	318.9
37.5°	289.3	304.1	329.4	344.2	354.8	346.3	327.3	304.1	293.5	285.1	276.6
40°	257.6	270.3	287.2	304.1	325.2	314.6	285.1	274.5	261.9	261.9	253.4
42.5°	232.3	238.6	249.2	274.5	297.8	276.6	255.5	247.1	240.8	238.6	236.5
45°	209.1	211.2	221.8	242.9	270.3	249.2	228.1	217.5	219.6	221.8	219.6
47.5°	188.0	192.2	198.5	223.9	240.8	230.2	207.0	200.6	200.6	200.6	202.8
50°	162.6	173.2	185.9	207.0	219.6	213.3	194.3	185.9	181.6	181.6	183.8
52.5°	145.7	154.2	171.1	196.4	213.3	202.8	183.8	171.1	162.6	160.5	164.8
55°	126.7	141.5	169.0	188.0	211.2	200.6	179.5	164.8	150.0	147.8	147.8
57.5°	114.0	137.3	162.6	185.9	204.9	196.4	179.5	160.5	141.5	139.4	139.4
60°	107.7	133.0	158.4	179.5	204.9	192.2	177.4	156.3	135.1	135.1	133.0
62.5°	101.3	124.6	150.0	171.1	196.4	185.9	171.1	150.0	128.8	128.8	124.6
65°	84.4	107.7	124.6	143.6	171.1	160.5	145.7	130.9	114.0	109.8	111.9
67.5°	59.1	73.9	90.8	109.8	126.7	122.4	116.1	105.6	90.8	88.7	86.6
70°	29.6	40.1	54.9	73.9	88.7	84.4	80.2	71.8	63.3	61.2	61.2
72.5°	4.2	12.7	23.2	33.8	46.4	48.6	46.4	44.3	42.2	40.1	42.2
75°	0.0	0.0	0.0	8.4	19.0	23.2	27.4	31.7	31.7	27.4	33.8
77.5°	0.0	0.0	0.0	0.0	2.1	10.6	21.1	27.4	33.8	29.6	40.1
80°	0.0	0.0	0.0	0.0	2.1	12.7	21.1	29.6	33.8	29.6	42.2
82.5°	0.0	0.0	0.0	0.0	2.1	14.8	21.1	27.4	31.7	29.6	38.0
85°	0.0	0.0	0.0	0.0	6.3	12.7	8.4	4.2	2.1	2.1	6.3
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-SA3D-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2	5444.2
2.5°	4715.7	4865.5	5026.1	5087.3	5277.4	5420.9	5518.1	5727.1	5758.8	5760.9
5°	3788.5	3864.6	4139.1	4267.9	4550.9	4770.5	5005.0	5342.8	5568.8	5585.7
7.5°	2692.5	2903.7	3019.9	3355.6	3704.1	4048.3	4396.7	4789.5	5051.4	5057.7
10°	2166.7	2303.9	2510.9	2762.2	3055.8	3406.3	3870.9	4327.0	4593.1	4658.6
12.5°	1744.3	1985.1	2221.6	2481.4	2705.2	2969.2	3469.6	4077.8	4297.5	4428.5
15°	1343.1	1562.7	1841.5	2145.6	2399.0	2751.7	3321.9	4016.6	4386.2	4430.6
17.5°	990.4	1186.8	1444.5	1731.7	2111.8	2612.3	3347.2	4327.0	4675.5	4749.4
20°	711.7	825.7	1028.5	1362.1	1845.7	2449.7	3372.5	4641.7	5171.7	5298.5
22.5°	563.8	610.3	743.4	1039.0	1547.9	2278.6	3552.0	5243.6	5853.9	6037.6
25°	490.0	515.3	578.6	819.4	1360.0	2261.7	3839.2	5965.8	6762.0	6894.9
27.5°	473.1	477.3	532.2	751.8	1258.6	2149.8	3949.0	6479.0	7327.9	7463.0
30°	498.4	566.0	570.2	635.6	1070.7	1928.1	4006.0	6975.3	7807.3	7906.5
32.5°	430.8	409.7	424.5	492.1	941.8	1799.2	4113.8	7408.1	8354.2	8423.9
35°	299.9	314.6	348.4	426.6	823.6	1664.1	4141.3	7885.4	8873.7	8945.5
37.5°	276.6	285.1	312.5	363.2	724.4	1588.1	4103.2	8233.8	9412.2	9511.5
40°	257.6	268.2	283.0	329.4	650.4	1503.6	4050.4	8548.5	9741.6	9986.6
42.5°	242.9	251.3	264.0	314.6	587.1	1419.1	3976.5	8992.0	10037.3	10250.6
45°	226.0	238.6	253.4	306.2	551.2	1362.1	3921.6	8964.6	10208.4	10322.4
47.5°	209.1	230.2	247.1	285.1	540.6	1334.7	3944.8	8861.0	10069.0	9990.8
50°	192.2	219.6	249.2	236.5	515.3	1279.7	3972.3	9002.6	9737.4	9722.6
52.5°	177.4	209.1	232.3	194.3	458.3	1226.9	4238.4	9188.3	9971.8	9775.4
55°	156.3	188.0	185.9	156.3	371.6	1186.8	4447.5	9192.6	9813.5	9887.4
57.5°	141.5	166.9	145.7	130.9	274.5	992.5	4107.4	7708.0	8400.7	8531.6
60°	130.9	162.6	109.8	103.4	179.5	715.9	3585.8	5970.0	6677.5	6924.5
62.5°	120.3	154.2	86.6	84.4	124.6	509.0	2948.0	4996.5	5754.6	6090.4
65°	105.6	109.8	69.7	65.4	88.7	274.5	1795.0	3440.1	4301.7	4426.3
67.5°	86.6	84.4	57.0	52.8	59.1	133.0	791.9	1723.2	2494.0	2703.1
70°	69.7	69.7	48.6	42.2	42.2	61.2	207.0	686.3	1127.7	1248.0
72.5°	50.7	52.8	38.0	33.8	31.7	29.6	33.8	137.3	295.6	378.0
75°	44.3	46.4	38.0	29.6	23.2	19.0	14.8	12.7	16.9	27.4
77.5°	48.6	48.6	40.1	27.4	21.1	14.8	8.4	4.2	4.2	2.1
80°	61.2	63.3	52.8	35.9	25.3	16.9	10.6	4.2	2.1	2.1
82.5°	65.4	71.8	59.1	44.3	31.7	19.0	10.6	2.1	0.0	0.0
85°	16.9	27.4	46.4	40.1	31.7	19.0	10.6	2.1	0.0	0.0
87.5°	0.0	2.1	6.3	6.3	8.4	8.4	6.3	2.1	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)