

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: P651300

Luminaire Tested: **GALN-SA3D-840-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651300  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-840-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13948 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

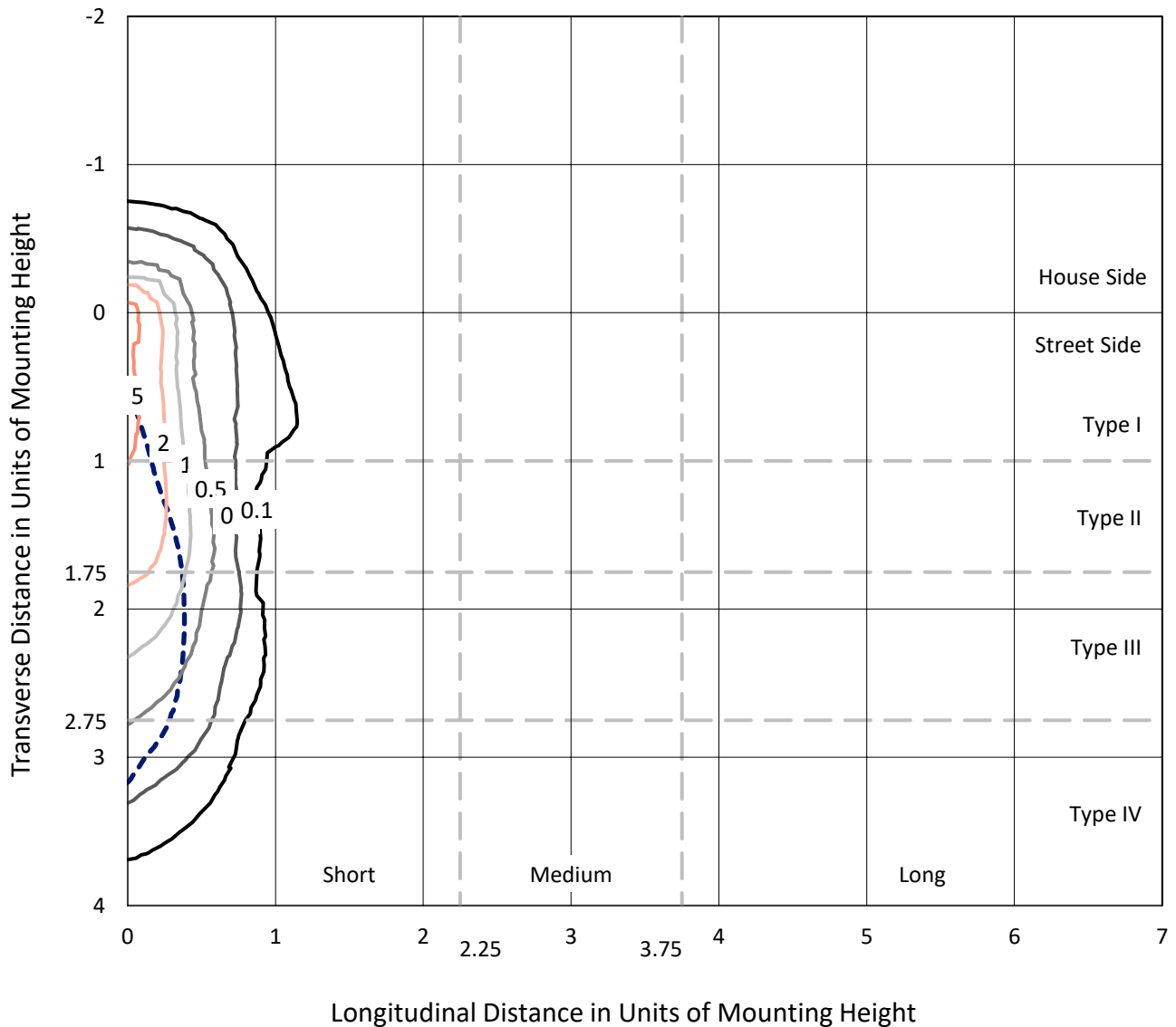
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

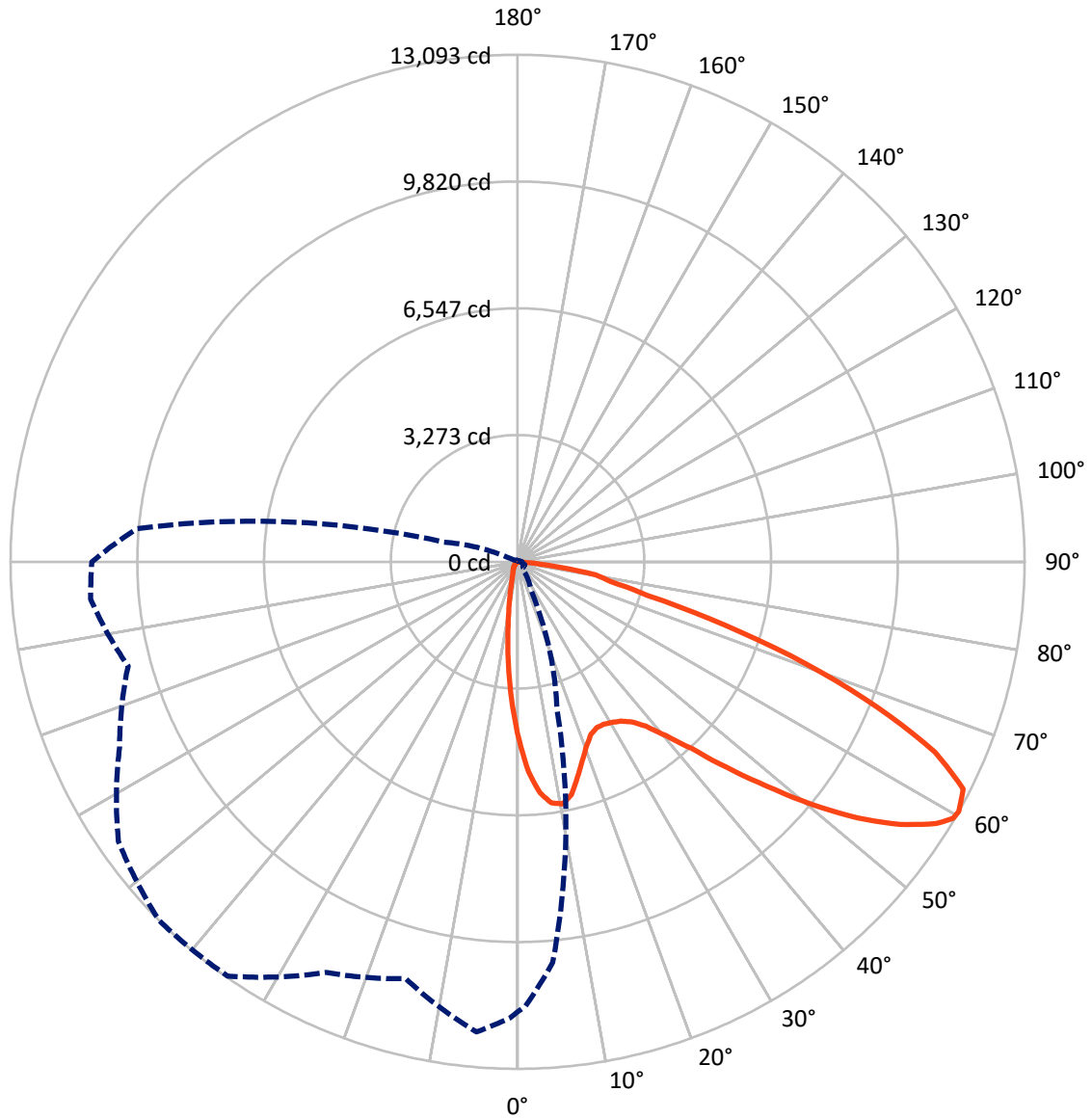
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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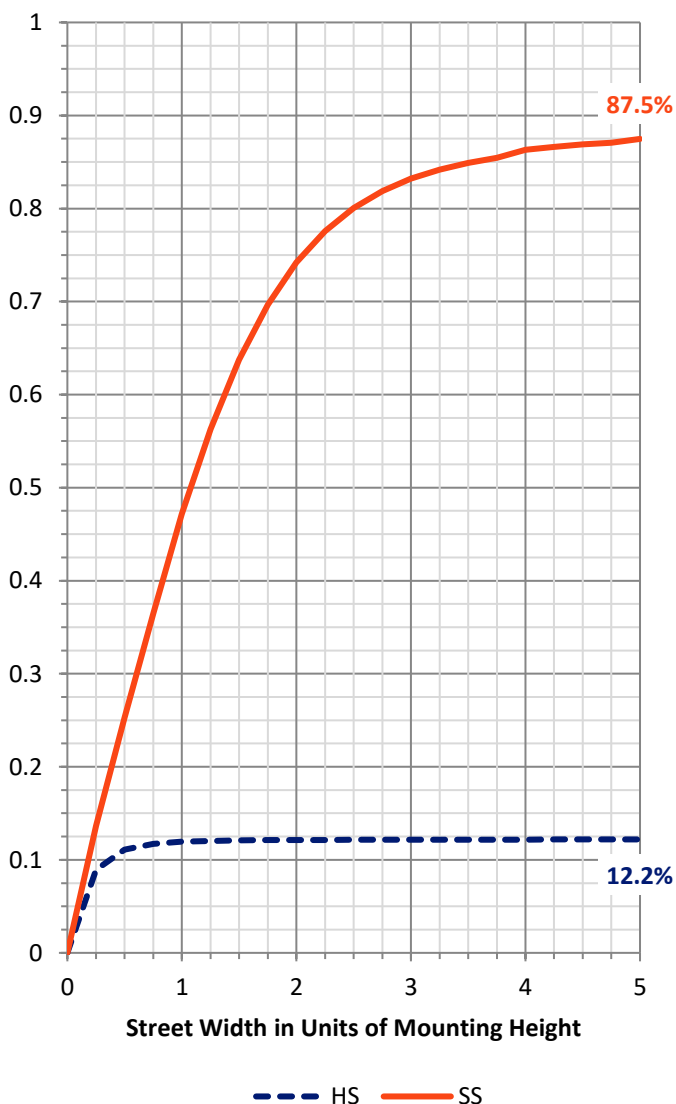
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1720.4	0.0	1720.4
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	12227.6	0.0	12227.6
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	13948.0	0.0	13948.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.9	2.5
10°-20°	681.0	4.9
20°-30°	998.5	7.2
30°-40°	1484.9	10.6
40°-50°	2161.0	15.5
50°-60°	3116.3	22.3
60°-70°	3427.6	24.6
70°-80°	1535.3	11.0
80°-90°	200.6	1.4
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°	13948.0	100.0
0°-180°	13948.0	100.0

**Coefficient of Utilization**



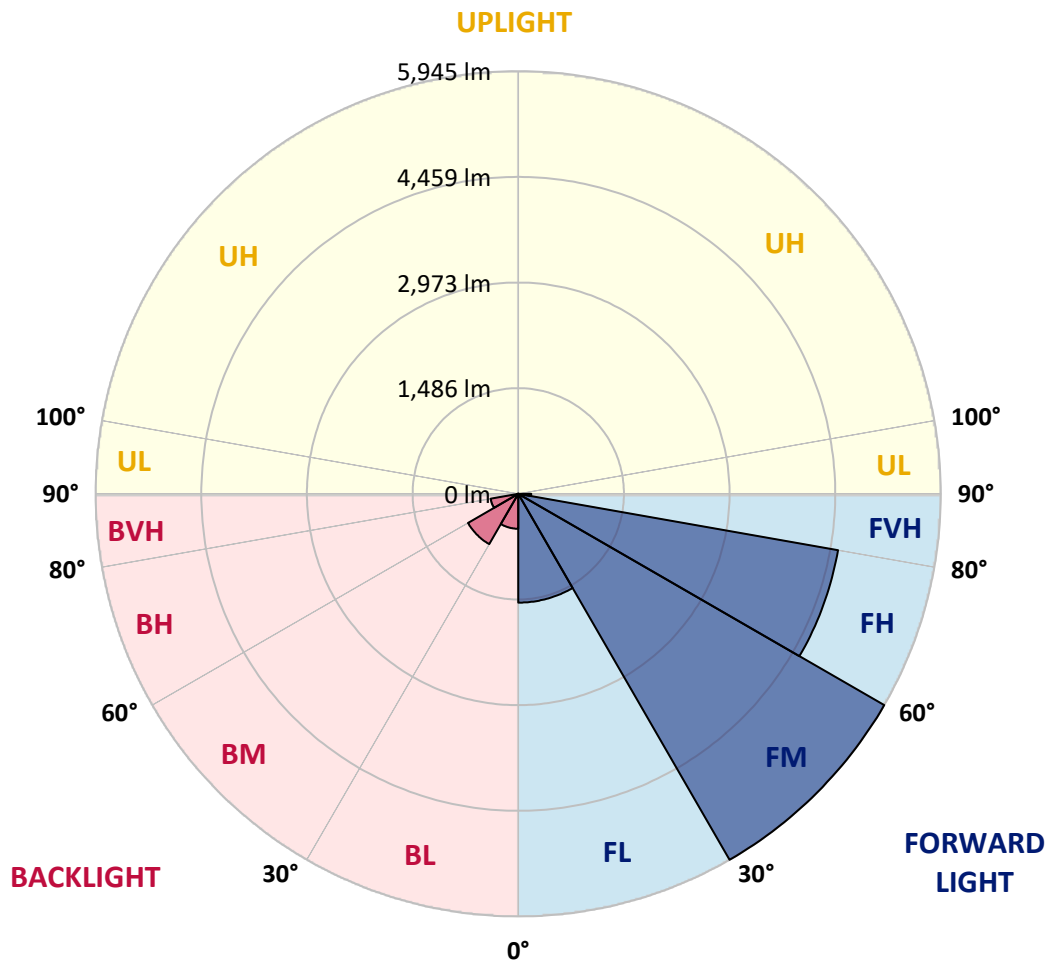
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.7	11.0			
FM (30°-60°)	5945.1	42.6			
FH (60°-80°)	4568.4	32.8			G2/5000
FVH (80°-90°)	183.5	1.3			G2/225
BL (0°-30°)	491.6	3.5	B1/500		
BM (30°-60°)	817.1	5.9	B1/1000		
BH (60°-80°)	394.5	2.8	B1/500		G1/500
BVH (80°-90°)	17.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0
2.5°	5068.0	5045.7	4994.9	4840.1	4705.4	4529.5	4351.3	4211.4	4125.4	3967.5	3895.4
5°	4910.1	4920.7	4773.3	4455.2	4101.1	3859.3	3595.4	3385.4	3154.3	3007.9	2854.2
7.5°	4497.6	4476.4	4316.3	3873.1	3442.6	3092.8	2758.8	2487.3	2316.7	2179.9	2065.4
10°	4144.5	4128.6	3924.0	3353.6	2891.4	2629.5	2403.6	2166.1	1982.7	1782.3	1622.2
12.5°	3922.9	3886.9	3651.5	3055.7	2679.3	2435.5	2189.5	1942.4	1689.0	1486.5	1292.4
15°	3848.8	3796.8	3534.9	2952.8	2543.6	2233.9	1925.5	1641.3	1349.7	1126.0	979.7
17.5°	3983.4	3897.5	3618.7	2934.8	2381.4	1971.1	1591.4	1221.4	918.2	747.5	657.3
20°	4292.0	4193.3	3830.8	2916.8	2201.1	1676.3	1209.8	863.0	635.1	541.8	492.0
22.5°	4750.0	4614.2	4144.5	2945.4	2034.6	1388.9	873.6	609.6	504.7	446.4	411.4
25°	5300.2	5186.8	4542.2	3047.2	1903.2	1163.1	675.4	498.3	425.1	389.1	362.6
27.5°	5903.5	5722.2	5056.3	3169.1	1783.3	988.2	592.7	445.3	378.5	345.7	331.9
30°	6332.9	6191.9	5486.9	3253.9	1633.9	856.7	541.8	438.9	379.5	340.4	314.9
32.5°	6757.0	6576.8	5847.3	3293.2	1524.6	765.5	468.6	382.7	333.0	312.8	287.4
35°	7210.8	7022.1	6206.7	3272.0	1443.0	705.1	425.1	341.4	285.2	251.3	225.8
37.5°	7669.9	7470.6	6564.1	3195.6	1392.1	680.7	391.2	324.5	269.3	234.3	206.7
40°	8214.9	7948.8	6899.1	3133.1	1339.1	667.9	368.9	313.9	257.7	220.5	192.9
42.5°	8660.2	8406.8	7216.1	3100.2	1303.0	638.2	368.9	305.4	250.2	208.9	180.2
45°	9082.2	8819.2	7558.6	3126.7	1288.2	601.1	373.2	304.3	244.9	200.4	171.7
47.5°	9435.3	9207.3	7910.6	3226.3	1269.2	560.9	350.9	319.2	241.7	192.9	163.2
50°	9851.9	9631.4	8376.0	3427.8	1235.2	520.6	323.4	343.5	240.7	186.6	155.8
52.5°	10439.3	10200.7	9018.5	3656.8	1181.1	459.1	298.0	340.4	236.4	176.0	148.4
55°	11157.1	10964.1	9762.8	3931.4	1106.9	390.1	257.7	302.2	223.7	157.9	135.7
57.5°	11617.2	11452.9	10320.6	4050.2	993.5	319.2	226.9	253.4	204.6	141.0	120.9
59°	11671.3	11522.9	10437.2	4011.0	919.2	291.6	212.0	217.3	199.3	131.4	112.4
60°	11625.7	11472.0	10390.6	3934.6	850.3	272.5	199.3	192.9	200.4	126.2	106.1
62.5°	11333.1	11070.2	9937.8	3547.6	743.3	250.2	177.0	157.9	177.0	113.5	94.4
65°	10768.0	10373.6	9041.9	3002.6	700.8	237.5	150.5	132.5	134.6	99.7	81.7
67.5°	9780.9	9283.6	7849.1	2439.7	682.8	238.6	127.2	118.7	103.9	84.9	72.1
70°	8220.2	7724.0	6297.9	2007.0	674.3	238.6	108.2	101.8	87.0	71.1	62.6
72.5°	5825.1	5290.7	4248.5	1576.6	607.5	237.5	92.3	92.3	71.1	59.4	50.9
75°	3291.1	3295.3	2670.8	1115.4	504.7	196.1	74.2	73.2	52.0	45.6	38.2
77.5°	1918.0	1884.1	1800.3	479.2	234.3	89.1	52.0	44.5	36.1	32.9	27.6
80°	986.1	811.1	789.9	173.9	83.8	56.2	36.1	25.5	23.3	21.2	19.1
82.5°	291.6	292.7	260.8	70.0	46.7	37.1	18.0	13.8	12.7	11.7	11.7
85°	20.2	12.7	14.8	21.2	28.6	14.8	1.1	3.2	3.2	4.2	5.3
87.5°	2.1	1.1	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°	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0
2.5°	3815.9	3862.5	3775.6	3777.7	3705.6	3728.9	3644.1	3671.6	3621.9	3660.0	3772.4
5°	2871.2	2881.8	2811.8	2789.5	2800.1	2843.6	2860.6	2783.2	2816.1	2751.3	2747.1
7.5°	2022.9	2035.7	1995.4	1990.1	2066.4	2048.4	2081.3	2001.7	1926.5	1959.4	1898.9
10°	1571.3	1518.3	1435.6	1412.3	1397.4	1407.0	1407.0	1334.8	1324.2	1295.6	1339.1
12.5°	1240.5	1175.8	1097.3	991.4	964.8	962.7	923.5	859.8	839.7	815.3	851.4
15°	901.2	874.7	809.0	749.6	689.2	677.5	613.9	562.0	493.0	483.5	480.3
17.5°	634.0	594.8	593.7	559.9	524.9	501.5	442.1	382.7	356.2	353.1	353.1
20°	475.0	461.2	438.9	434.7	424.1	397.6	344.6	312.8	300.1	301.1	305.4
22.5°	399.7	390.1	370.0	360.5	356.2	333.0	293.7	272.5	266.1	266.1	267.2
25°	357.3	348.8	326.6	311.7	306.4	289.5	258.7	242.8	237.5	237.5	237.5
27.5°	325.5	314.9	291.6	278.9	269.3	250.2	231.1	215.2	209.9	209.9	211.0
30°	303.3	291.6	270.4	253.4	238.6	221.6	205.7	191.9	185.5	184.5	185.5
32.5°	273.6	263.0	241.7	231.1	214.2	194.0	181.3	168.6	162.2	163.2	162.2
35°	213.1	209.9	195.1	198.3	188.7	171.7	160.1	146.3	138.9	137.8	139.9
37.5°	194.0	181.3	164.3	165.4	162.2	155.8	136.7	121.9	116.6	116.6	117.7
40°	179.2	166.4	147.3	137.8	138.9	138.9	118.7	102.9	97.6	96.5	98.6
42.5°	166.4	153.7	132.5	116.6	112.4	117.7	100.8	84.9	79.6	77.4	79.6
45°	157.9	144.2	119.8	101.8	89.1	95.5	82.7	70.0	63.6	63.6	62.6
47.5°	149.5	136.7	110.3	88.0	74.2	71.1	67.9	56.2	49.9	48.8	49.9
50°	142.0	129.3	99.7	76.4	62.6	55.2	55.2	44.5	40.3	38.2	39.2
52.5°	134.6	120.9	90.2	67.9	54.1	44.5	39.2	36.1	32.9	31.8	32.9
55°	124.0	110.3	80.6	58.3	46.7	37.1	30.8	29.7	27.6	25.5	27.6
57.5°	111.3	98.6	71.1	49.9	37.1	28.6	25.5	24.4	22.3	21.2	21.2
59°	103.9	92.3	65.8	43.5	32.9	25.5	23.3	22.3	20.2	18.0	19.1
60°	99.7	90.2	62.6	40.3	29.7	23.3	21.2	20.2	18.0	17.0	18.0
62.5°	88.0	80.6	55.2	32.9	23.3	17.0	14.8	15.9	14.8	13.8	14.8
65°	77.4	71.1	46.7	25.5	18.0	11.7	10.6	13.8	12.7	11.7	12.7
67.5°	68.9	61.5	39.2	19.1	12.7	6.4	7.4	11.7	11.7	10.6	11.7
70°	59.4	53.0	31.8	13.8	6.4	3.2	5.3	8.5	10.6	9.5	10.6
72.5°	48.8	41.4	24.4	9.5	3.2	0.0	3.2	7.4	10.6	9.5	10.6
75°	38.2	30.8	18.0	5.3	0.0	0.0	1.1	6.4	10.6	9.5	10.6
77.5°	27.6	22.3	10.6	1.1	0.0	0.0	1.1	6.4	10.6	9.5	10.6
80°	18.0	15.9	4.2	0.0	0.0	0.0	1.1	6.4	10.6	10.6	11.7
82.5°	11.7	8.5	0.0	0.0	0.0	0.0	2.1	8.5	11.7	12.7	12.7
85°	5.3	0.0	0.0	0.0	0.0	0.0	4.2	10.6	13.8	13.8	13.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.1	7.4	12.7	15.9	15.9	15.9
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°	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0
2.5°	3791.5	3858.3	3952.6	4097.9	4215.6	4401.1	4543.3	4737.3	4933.4	4992.8	5085.0
5°	2790.6	2876.5	3090.7	3285.7	3408.7	3801.1	4049.2	4440.4	4791.3	4959.9	5143.3
7.5°	1938.2	2039.9	2203.3	2475.7	2734.4	3053.6	3454.3	3901.7	4416.0	4656.7	4915.4
10°	1360.3	1487.6	1717.7	1941.4	2266.8	2570.1	2965.5	3459.6	4026.9	4311.1	4635.4
12.5°	858.8	972.3	1276.6	1527.8	1933.9	2285.9	2650.7	3098.1	3755.4	4047.0	4387.3
15°	490.9	586.3	728.4	1050.7	1501.4	1966.8	2421.7	2941.1	3616.6	3976.0	4343.8
17.5°	365.8	391.2	454.8	637.2	1047.5	1591.4	2210.7	2893.5	3710.9	4132.9	4552.8
20°	307.5	324.5	354.1	426.2	667.9	1225.7	2004.9	2902.0	4016.3	4546.4	4945.1
22.5°	275.7	286.3	310.7	357.3	455.9	892.7	1764.2	2951.7	4386.3	5054.2	5514.4
25°	241.7	255.5	276.7	317.1	379.5	619.2	1526.8	3063.1	4904.8	5698.9	6131.5
27.5°	215.2	228.0	249.2	286.3	333.0	472.9	1250.1	3158.5	5451.9	6347.8	6701.9
30°	188.7	201.4	222.6	252.3	294.8	382.7	952.1	3214.7	5983.0	6834.5	7107.0
32.5°	166.4	177.0	197.2	223.7	258.7	324.5	750.7	3156.4	6389.2	7276.6	7458.9
35°	144.2	156.9	173.9	198.3	229.0	276.7	624.5	2954.9	6737.9	7731.4	7797.2
37.5°	120.9	135.7	153.7	176.0	200.4	254.5	501.5	2732.3	7111.2	8298.7	8190.5
40°	101.8	115.6	132.5	156.9	179.2	233.3	385.9	2494.8	7514.1	8830.9	8619.9
42.5°	82.7	97.6	117.7	139.9	177.0	203.6	299.0	2248.8	7875.6	9294.2	9008.0
45°	65.8	78.5	99.7	128.3	176.0	174.9	231.1	2006.0	8148.1	9625.1	9297.4
47.5°	52.0	62.6	83.8	125.1	162.2	148.4	185.5	1855.4	8434.4	9923.0	9519.0
50°	41.4	52.0	72.1	130.4	142.0	127.2	155.8	1879.8	8711.1	10074.6	9610.2
52.5°	35.0	45.6	62.6	102.9	109.2	111.3	136.7	1992.2	9068.4	10236.8	9791.5
55°	30.8	40.3	53.0	72.1	84.9	99.7	125.1	2073.9	9546.6	10584.6	10191.2
57.5°	24.4	35.0	47.7	61.5	70.0	87.0	115.6	2080.2	9979.1	11031.0	10722.4
59°	22.3	31.8	44.5	58.3	62.6	78.5	109.2	2026.1	9995.0	11097.8	10966.3
60°	20.2	30.8	42.4	54.1	59.4	74.2	103.9	1963.6	9850.9	10991.7	11067.0
62.5°	17.0	26.5	37.1	43.5	50.9	61.5	90.2	1736.7	9152.2	10511.4	10880.4
65°	14.8	23.3	31.8	36.1	42.4	53.0	79.6	1390.0	8380.3	9860.4	10346.0
67.5°	13.8	21.2	27.6	30.8	37.1	48.8	71.1	981.8	7380.4	9034.4	9543.4
70°	12.7	20.2	24.4	28.6	32.9	41.4	60.5	572.6	5685.1	7586.2	8123.7
72.5°	12.7	19.1	21.2	24.4	28.6	37.1	56.2	309.6	3886.9	5786.9	6481.3
75°	12.7	18.0	19.1	21.2	25.5	33.9	49.9	162.2	2512.8	4020.5	4962.0
77.5°	12.7	17.0	19.1	20.2	24.4	29.7	43.5	101.8	1674.2	2816.1	3353.6
80°	13.8	17.0	18.0	20.2	23.3	27.6	36.1	67.9	983.9	1694.3	2041.0
82.5°	14.8	17.0	19.1	21.2	24.4	26.5	31.8	42.4	453.8	1120.7	1268.1
85°	15.9	18.0	20.2	22.3	25.5	26.5	29.7	30.8	74.2	505.8	683.9
87.5°	17.0	19.1	21.2	23.3	27.6	27.6	27.6	27.6	25.5	54.1	137.8
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: P651300

CATALOG NUMBER: GALN-SA3D-840-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0	4610.0
2.5°	5201.7	5321.4	5405.2	5426.4	5366.0	5338.4	5262.1	5143.3	5071.2	5068.0
5°	5481.6	5762.5	5957.6	5990.4	5873.8	5676.7	5442.3	5140.1	4963.1	4910.1
7.5°	5433.9	5925.8	6239.6	6285.2	6089.1	5712.7	5258.9	4772.3	4579.2	4497.6
10°	5237.7	5837.8	6286.3	6358.4	6096.5	5566.3	4989.6	4446.7	4207.1	4144.5
12.5°	5070.1	5676.7	6075.3	6175.0	5976.7	5447.6	4828.4	4237.9	3981.3	3922.9
15°	4997.0	5485.8	5729.6	5780.5	5747.6	5373.4	4811.4	4206.0	3912.3	3848.8
17.5°	5070.1	5323.5	5354.3	5406.3	5479.5	5366.0	4974.8	4378.8	4061.9	3983.4
20°	5262.1	5182.6	5055.3	5077.6	5245.1	5396.7	5265.2	4761.7	4375.7	4292.0
22.5°	5588.6	5147.6	4859.1	4840.1	5052.1	5499.6	5691.5	5280.1	4832.6	4750.0
25°	5989.4	5235.6	4787.1	4745.8	4976.9	5650.1	6154.8	5915.2	5426.4	5300.2
27.5°	6426.2	5417.9	4787.1	4746.8	4970.5	5783.7	6551.3	6477.1	6041.3	5903.5
30°	6665.9	5568.5	4856.0	4810.4	5048.9	5861.1	6763.4	6976.5	6503.6	6332.9
32.5°	6880.1	5777.3	4990.7	4904.8	5213.3	5975.6	6953.2	7400.6	6871.6	6757.0
35°	7077.3	6001.0	5176.2	5076.5	5429.6	6132.6	7163.1	7845.9	7383.6	7210.8
37.5°	7294.6	6260.8	5465.7	5380.8	5791.1	6437.9	7412.2	8431.2	7887.2	7669.9
40°	7531.0	6562.0	5941.7	5905.7	6365.8	6783.5	7727.2	9055.6	8461.9	8214.9
42.5°	7771.7	6908.6	6524.8	6584.2	7016.8	7268.1	8050.6	9536.0	8932.7	8660.2
45°	7990.1	7351.9	7282.9	7576.7	7776.0	7741.0	8290.2	9874.2	9343.0	9082.2
47.5°	8265.8	7997.6	8200.1	8652.8	8658.1	8255.2	8471.5	10151.0	9696.1	9435.3
50°	8574.3	8759.9	9384.4	9845.6	9721.5	8760.9	8683.5	10478.5	10060.8	9851.9
52.5°	8931.6	9613.4	10478.5	10990.6	10701.2	9312.2	9036.6	10832.7	10639.7	10439.3
55°	9347.2	10195.4	11569.6	11977.8	11686.2	9997.2	9573.1	11313.0	11293.9	11157.1
57.5°	9816.9	10810.4	12201.5	12753.8	12494.1	10800.9	10322.7	11765.7	11693.6	11617.2
59°	10188.0	11126.3	12480.4	13052.8	12896.0	11363.8	10826.3	12047.7	11785.9	11671.3
60°	10412.8	11340.5	12583.1	13093.1	13057.1	11698.9	11145.4	12185.6	11784.8	11625.7
62.5°	11079.7	11714.8	12543.9	12914.0	13055.0	12341.4	12081.6	12337.2	11566.4	11333.1
65°	11317.2	11590.7	11894.0	11848.4	11969.3	12308.5	12679.7	12170.7	11099.9	10768.0
67.5°	10855.0	10230.4	10337.6	10033.2	9973.8	10942.9	12436.9	11356.4	10186.9	9780.9
70°	9150.1	7837.4	7783.4	7923.3	7539.5	8859.5	11167.7	9788.3	8680.4	8220.2
72.5°	7202.3	5538.8	5082.9	5598.2	5586.5	6759.1	9277.2	6945.7	5864.3	5825.1
75°	5663.9	3856.2	3384.4	3468.1	3629.3	4893.1	7388.9	4410.7	3611.3	3291.1
77.5°	3802.1	2732.3	2548.9	2446.0	2619.9	3141.6	4674.7	2392.0	2025.1	1918.0
80°	2191.6	1984.8	2254.1	2046.3	2139.6	1979.5	2325.1	1097.3	910.8	986.1
82.5°	1426.1	1130.2	1204.5	894.8	1223.6	1234.2	746.4	324.5	274.6	291.6
85°	891.7	530.2	298.0	212.0	422.0	776.1	233.3	20.2	23.3	20.2
87.5°	231.1	88.0	37.1	55.2	67.9	60.5	54.1	3.2	1.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)