

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: P454059

Luminaire Tested: **GALN-SA5A-827-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12090 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

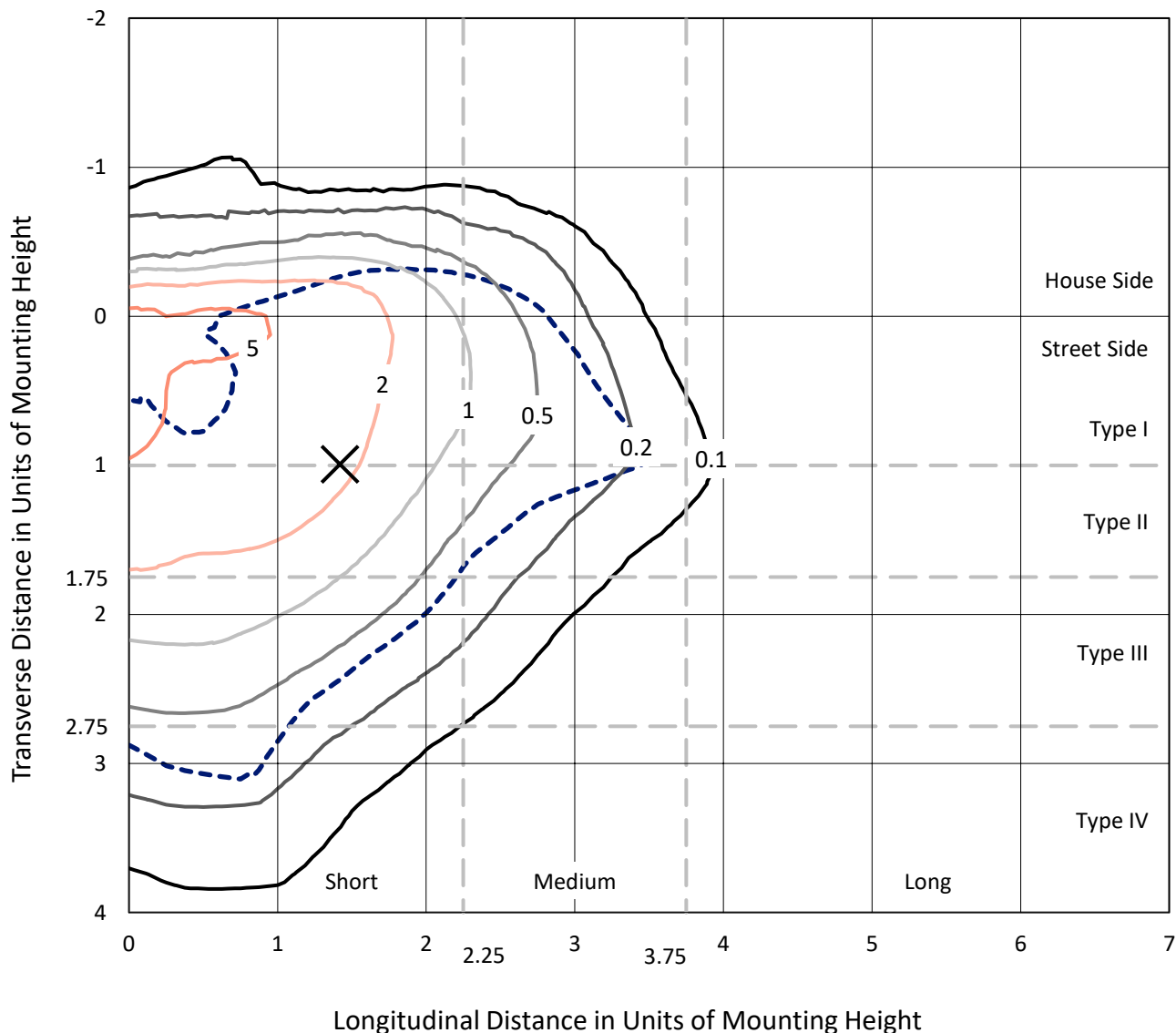
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

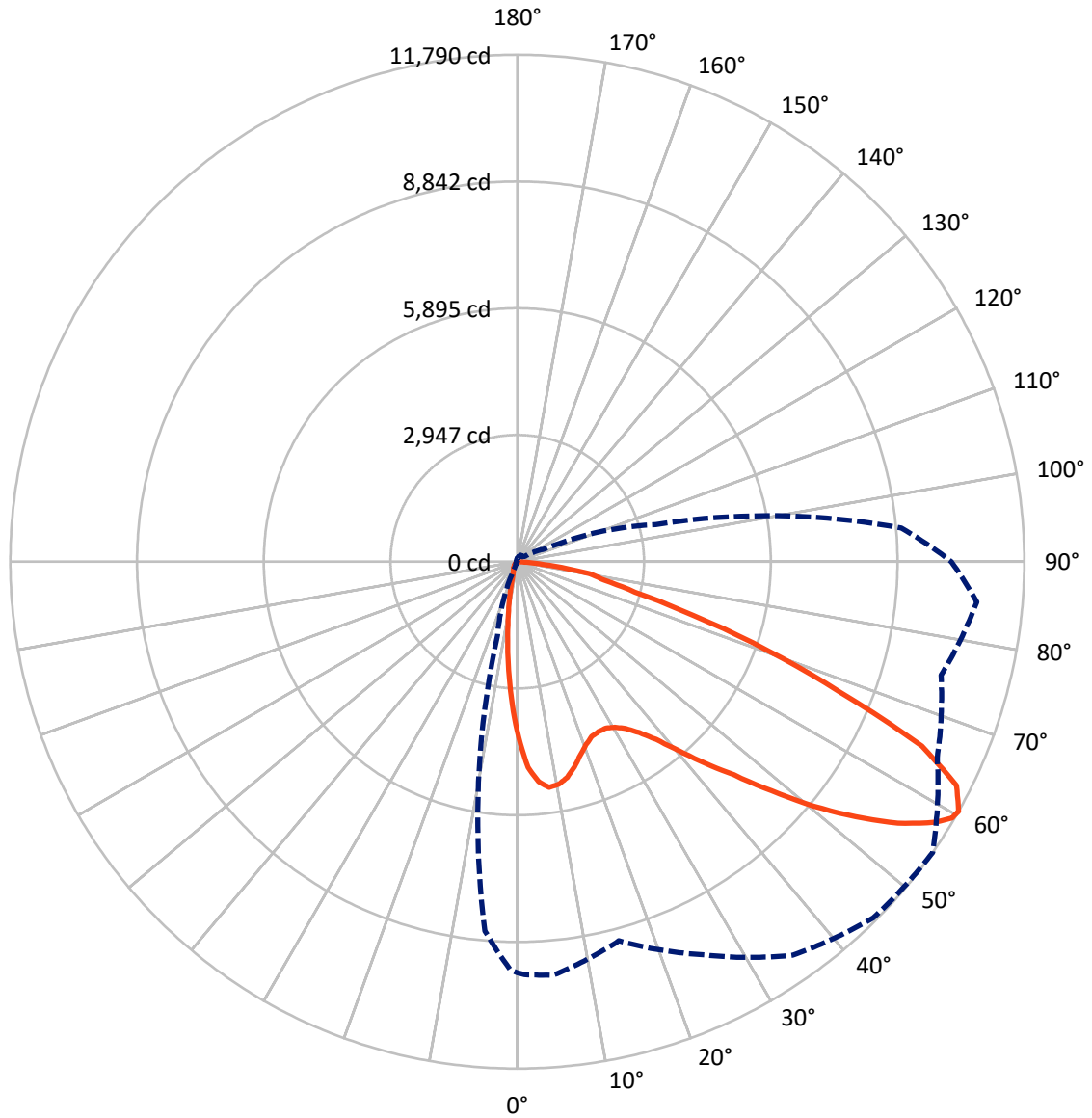
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1794.3	0.0	1794.3
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	10295.7	0.0	10295.7
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	12090.0	0.0	12090.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.1	2.5
10°-20°	597.0	4.9
20°-30°	883.6	7.3
30°-40°	1317.1	10.9
40°-50°	1928.9	16.0
50°-60°	2784.7	23.0
60°-70°	2929.4	24.2
70°-80°	1205.1	10.0
80°-90°	141.1	1.2
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°	12090.0	100.0
0°-180°	12090.0	100.0

**Coefficient of Utilization**

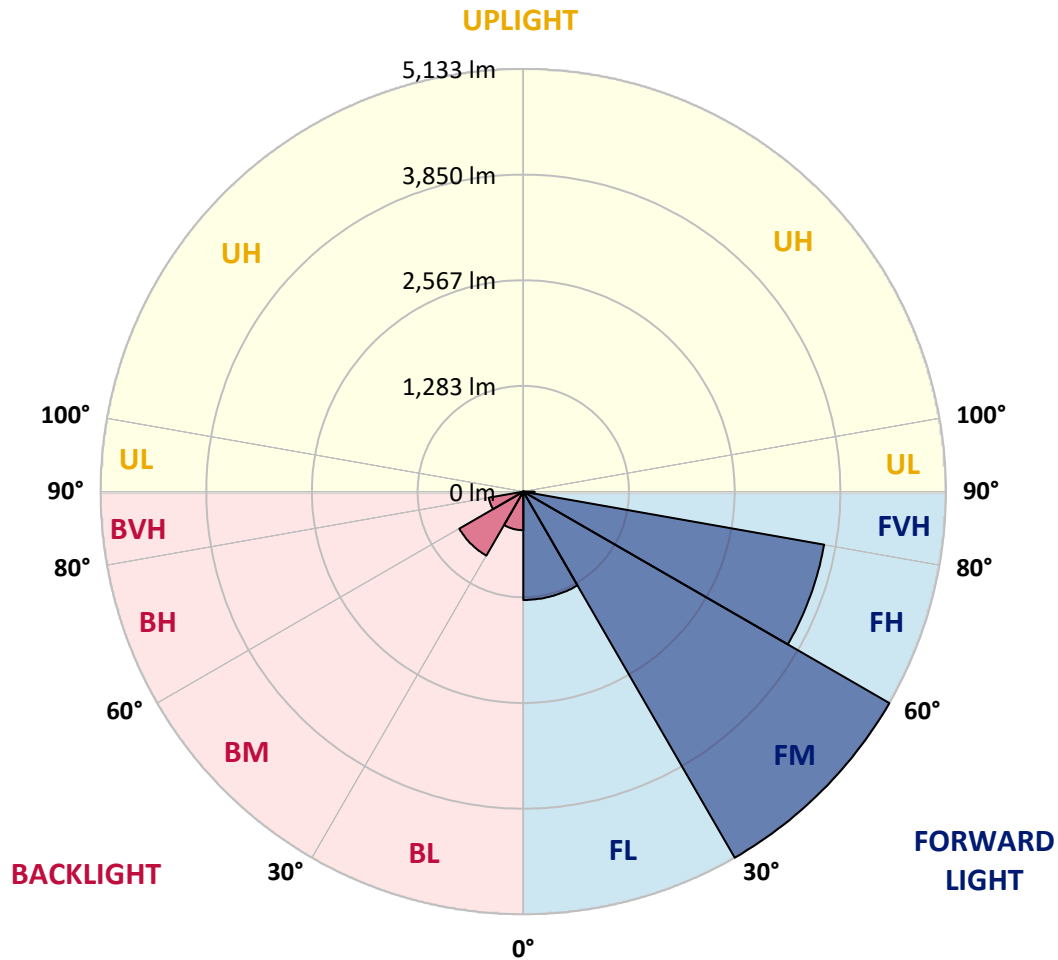


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1315.6	10.9			
FM (30°-60°)	5133.4	42.5			
FH (60°-80°)	3709.8	30.7			G2/5000
FVH (80°-90°)	137.0	1.1			G2/225
BL (0°-30°)	468.1	3.9	B1/500		
BM (30°-60°)	897.3	7.4	B1/1000		
BH (60°-80°)	424.7	3.5	B1/500		G1/500
BVH (80°-90°)	4.1	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-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6
2.5°	4472.4	4464.9	4531.0	4639.0	4747.8	4804.6	4793.4	4788.8	4698.5	4632.4	4493.8
5°	4463.1	4501.2	4619.4	4911.6	5133.1	5240.1	5271.8	5138.7	4962.8	4707.8	4393.3
7.5°	4196.0	4243.5	4436.1	4893.0	5286.6	5519.3	5510.9	5297.8	4934.9	4540.3	4091.8
10°	3864.7	3920.6	4146.7	4701.3	5212.2	5519.3	5536.0	5266.2	4814.8	4308.6	3836.8
12.5°	3631.1	3697.2	3947.5	4522.6	5020.5	5322.9	5342.5	5147.1	4724.6	4219.3	3698.1
15°	3552.0	3614.4	3868.4	4432.4	4816.7	4979.6	4974.9	4954.4	4689.2	4240.7	3705.6
17.5°	3687.9	3739.1	4025.7	4473.3	4625.9	4609.2	4633.4	4732.0	4696.7	4420.3	3940.1
20°	4038.7	4090.8	4398.9	4598.9	4479.8	4373.7	4384.9	4549.6	4765.5	4758.1	4306.7
22.5°	4521.7	4610.1	4889.3	4842.8	4460.3	4227.6	4204.4	4418.4	4882.8	5147.1	4801.8
25°	5133.1	5222.4	5440.2	5231.7	4556.1	4193.2	4171.8	4378.4	5025.2	5526.7	5359.2
27.5°	5646.8	5714.7	5931.5	5610.5	4697.6	4208.1	4172.7	4384.0	5140.5	5849.7	5829.2
30°	6058.1	6108.4	6235.8	5787.3	4819.5	4273.2	4232.3	4465.9	5191.7	6006.9	6209.8
32.5°	6389.4	6474.1	6514.1	5976.2	4994.4	4396.1	4326.3	4623.1	5316.4	6201.4	6609.0
35°	6768.1	6865.9	6814.7	6156.7	5225.2	4587.8	4502.2	4878.1	5505.3	6381.0	7072.4
37.5°	7248.3	7360.9	7160.8	6346.6	5469.0	4876.3	4836.2	5236.4	5792.0	6637.9	7569.4
40°	7745.3	7810.4	7496.8	6577.4	5768.7	5296.0	5334.1	5768.7	6167.0	6945.9	8097.9
42.5°	8133.3	8194.7	7842.0	6770.9	6074.9	5793.8	5952.9	6410.8	6596.9	7261.3	8492.5
45°	8430.2	8482.3	8081.2	6982.2	6488.0	6515.0	6815.6	7072.4	7027.8	7454.0	8796.8
47.5°	8660.9	8705.6	8265.5	7209.2	7106.9	7397.2	7856.9	7965.8	7474.5	7662.4	9072.3
50°	8755.9	8768.9	8323.1	7498.6	7809.5	8521.4	9000.6	8934.5	7986.3	7894.1	9365.4
52.5°	8879.6	8876.8	8487.9	7774.1	8470.2	9526.4	10004.7	9854.9	8565.1	8241.3	9694.8
55°	9204.4	9208.1	8840.6	8164.9	9033.2	10337.9	10849.7	10740.8	9175.6	8827.5	10079.2
57.5°	9599.0	9612.9	9342.1	8621.9	9571.1	10926.0	11480.6	11438.7	10001.0	9479.9	10442.1
59°	9650.2	9678.1	9579.4	8943.8	9890.3	11106.5	11696.5	11737.5	10443.0	9909.8	10638.4
60°	9557.1	9603.6	9648.3	9126.2	10077.3	11171.7	11709.5	11789.6	10775.2	10202.0	10727.8
62.5°	9151.4	9224.9	9449.2	9687.4	10310.9	10968.8	11293.6	11461.1	11186.6	10969.7	10736.2
65°	8620.0	8658.2	8982.0	9787.0	9857.7	10021.5	10122.0	10336.9	10692.4	11265.7	10351.8
67.5°	7749.0	7861.6	8258.0	9209.1	8520.4	8326.9	8301.7	8087.7	9010.8	10560.3	9404.5
70°	6401.5	6451.7	6940.3	7549.8	6430.3	6132.6	6251.7	6171.6	6985.0	9090.9	7569.4
72.5°	4840.9	4954.4	5431.8	6018.1	4375.6	3989.4	4317.9	4288.1	5246.6	7306.0	5200.1
75°	3444.1	3517.6	4126.2	4709.7	3064.4	2596.3	2714.5	2825.3	3662.8	5768.7	3072.8
77.5°	2366.5	2429.8	2886.7	3114.7	2235.3	2141.3	1958.9	2065.9	2400.0	3422.7	1672.3
80°	1427.5	1424.7	1725.3	1781.1	1556.9	1808.1	1516.9	1703.0	1450.8	1464.7	647.7
82.5°	926.9	917.6	1055.3	1150.2	866.4	911.0	611.4	881.3	945.5	408.5	204.7
85°	415.0	432.7	507.2	669.1	379.7	201.9	124.7	270.8	402.9	205.7	0.0
87.5°	42.8	33.5	89.3	162.9	52.1	5.6	18.6	9.3	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°	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6
2.5°	4429.6	4375.6	4214.6	4063.9	3934.5	3776.3	3673.9	3513.0	3415.2	3385.5	3390.1
5°	4251.8	4096.4	3790.3	3545.5	3272.9	3117.5	2881.1	2654.0	2531.2	2485.6	2465.1
7.5°	3879.6	3713.0	3343.6	2959.3	2667.1	2394.4	2218.5	2018.4	1881.6	1769.0	1749.5
10°	3603.2	3384.5	2926.7	2513.5	2282.7	2078.0	1902.1	1702.0	1541.0	1412.6	1377.3
12.5°	3437.6	3192.8	2681.9	2335.8	2117.1	1906.8	1677.8	1446.1	1281.4	1142.8	1078.5
15°	3407.8	3124.0	2613.1	2208.3	1938.4	1684.4	1380.1	1129.7	960.4	829.2	789.1
17.5°	3587.4	3247.7	2602.8	2075.2	1704.8	1344.7	1028.3	820.8	630.0	556.5	527.6
20°	3907.5	3466.4	2601.9	1920.7	1464.7	1035.7	722.1	535.1	457.8	422.5	405.7
22.5°	4344.0	3764.2	2651.2	1787.7	1215.3	764.0	515.5	426.2	381.5	352.7	346.2
25°	4877.2	4205.3	2772.2	1697.4	1024.6	599.3	425.3	364.8	327.6	314.5	309.0
27.5°	5350.9	4627.8	2905.3	1604.3	887.8	530.4	394.6	334.1	304.3	294.1	285.7
30°	5759.4	5011.2	2969.5	1481.5	778.0	485.8	400.2	357.3	318.3	287.6	273.6
32.5°	6100.0	5305.3	3011.4	1369.8	684.9	397.4	316.4	276.4	258.7	247.5	238.2
35°	6526.2	5623.5	2986.2	1306.5	637.5	362.0	288.5	238.2	208.5	186.1	176.8
37.5°	6972.9	5941.8	2942.5	1254.4	616.0	335.9	274.5	226.1	193.6	170.3	158.2
40°	7435.4	6236.8	2891.3	1206.0	596.5	319.2	266.1	215.9	183.3	158.2	145.2
42.5°	7858.8	6524.3	2870.9	1174.4	564.9	322.0	259.6	211.2	173.1	147.0	135.9
45°	8201.2	6797.0	2898.8	1157.6	530.4	317.3	261.5	205.7	164.7	139.6	128.4
47.5°	8567.0	7182.3	2989.0	1140.9	496.9	295.0	275.5	204.7	161.0	134.9	122.8
50°	8992.2	7675.5	3195.6	1100.0	456.0	270.8	293.1	203.8	156.3	129.4	117.3
52.5°	9559.0	8235.7	3408.7	1028.3	396.4	247.5	280.1	201.0	147.0	122.8	110.7
55°	10068.0	8825.7	3589.3	943.6	321.1	214.0	252.2	188.9	131.2	111.7	100.5
57.5°	10278.3	9158.8	3583.7	826.4	256.8	188.0	207.5	173.1	114.5	98.6	89.3
59°	10201.1	9116.9	3463.6	739.8	234.5	174.0	172.2	171.2	107.0	89.3	81.9
60°	10092.2	8964.3	3334.3	697.0	220.5	164.7	158.2	169.4	100.5	83.8	76.3
62.5°	9675.3	8331.5	2905.3	624.4	201.9	139.6	126.6	143.3	89.3	72.6	66.1
65°	9071.3	7359.1	2459.5	603.9	196.4	115.4	105.2	102.4	76.3	61.4	55.8
67.5°	7893.2	6227.5	1992.4	590.0	198.2	96.8	92.1	77.2	63.3	51.2	47.5
70°	6319.6	4855.8	1631.3	574.2	200.1	79.1	77.2	61.4	51.2	42.8	39.1
72.5°	3839.6	2878.3	1284.2	498.8	194.5	63.3	68.9	46.5	37.2	30.7	28.8
75°	2373.9	1970.0	796.6	388.1	128.4	46.5	48.4	28.8	25.1	19.5	19.5
77.5°	1375.4	1244.2	284.8	139.6	56.8	27.9	21.4	14.9	14.0	8.4	8.4
80°	570.4	456.9	98.6	47.5	30.7	13.0	4.7	0.9	0.0	0.0	0.0
82.5°	166.6	148.0	27.0	21.4	9.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6
2.5°	3311.0	3280.3	3266.4	3313.8	3270.1	3325.9	3283.1	3301.7	3356.6	3380.8	3443.2
5°	2478.1	2446.5	2431.6	2503.3	2499.5	2534.9	2531.2	2563.8	2591.7	2529.3	2593.5
7.5°	1726.2	1704.8	1740.2	1796.0	1855.6	1836.0	1836.0	1792.3	1807.2	1797.9	1795.1
10°	1313.1	1239.5	1220.9	1219.1	1241.4	1246.1	1220.9	1160.4	1182.8	1189.3	1228.4
12.5°	1032.9	976.2	889.6	850.6	840.3	848.7	765.9	712.8	738.0	723.1	761.2
15°	740.7	694.2	643.0	599.3	587.2	570.4	480.2	416.9	409.5	412.2	418.8
17.5°	528.6	496.9	496.9	450.4	425.3	375.0	329.4	301.5	298.7	301.5	306.2
20°	389.9	373.2	371.3	359.2	331.3	297.8	266.1	260.6	258.7	263.4	265.2
22.5°	335.9	318.3	303.4	302.4	276.4	248.5	233.6	226.1	227.1	228.9	233.6
25°	300.6	282.0	266.1	256.8	238.2	218.7	204.7	201.0	201.0	203.8	204.7
27.5°	275.5	252.2	238.2	225.2	208.5	191.7	179.6	176.8	174.9	176.8	181.5
30°	257.8	234.5	216.8	197.3	184.3	168.4	158.2	154.5	153.5	154.5	158.2
32.5°	220.5	206.6	192.6	174.9	159.1	148.9	137.7	131.2	131.2	133.1	136.8
35°	166.6	159.1	158.2	153.5	140.5	129.4	116.3	109.8	109.8	113.5	115.4
37.5°	147.0	133.1	131.2	129.4	123.8	108.9	96.8	91.2	90.3	93.1	96.8
40°	134.0	118.2	109.8	107.9	108.9	92.1	79.1	73.5	73.5	74.4	78.2
42.5°	123.8	105.2	90.3	88.4	92.1	77.2	64.2	58.6	58.6	58.6	63.3
45°	115.4	94.0	76.3	67.0	72.6	63.3	52.1	46.5	44.7	46.5	48.4
47.5°	109.8	85.6	67.0	54.0	54.0	50.3	41.9	35.4	33.5	34.4	37.2
50°	105.2	78.2	56.8	43.7	39.1	40.0	31.6	27.0	25.1	25.1	27.9
52.5°	97.7	70.7	49.3	37.2	29.8	27.0	23.3	19.5	18.6	19.5	21.4
55°	88.4	64.2	42.8	30.7	23.3	18.6	16.8	14.0	13.0	14.0	16.8
57.5°	78.2	54.0	34.4	24.2	15.8	12.1	11.2	9.3	7.4	8.4	10.2
59°	71.7	48.4	29.8	19.5	12.1	8.4	8.4	6.5	4.7	5.6	8.4
60°	68.9	44.7	25.1	16.8	10.2	6.5	6.5	4.7	2.8	3.7	6.5
62.5°	58.6	37.2	19.5	10.2	4.7	0.9	2.8	0.9	0.0	0.9	2.8
65°	49.3	29.8	13.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.9
67.5°	40.9	22.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	32.6	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	22.3	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P454059  
 CATALOG NUMBER: GALN-SA5A-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6	4093.6
2.5°	3446.9	3580.0	3661.8	3816.3	3974.5	4096.4	4249.0	4385.8	4442.6	4472.4
5°	2658.7	2843.9	3001.1	3236.6	3455.3	3721.4	3991.3	4309.5	4431.4	4463.1
7.5°	1865.8	2054.7	2219.4	2492.1	2803.9	3160.3	3564.1	3968.0	4145.8	4196.0
10°	1347.5	1549.4	1750.4	2023.1	2314.4	2700.6	3121.2	3620.9	3825.6	3864.7
12.5°	850.6	1067.4	1394.0	1730.9	2038.9	2349.7	2789.9	3333.4	3559.5	3631.1
15°	493.2	655.1	901.7	1341.0	1732.7	2144.1	2624.2	3225.4	3478.5	3552.0
17.5°	330.4	386.2	555.6	891.5	1408.9	1954.2	2582.4	3313.8	3593.9	3687.9
20°	278.2	303.4	362.9	543.5	1085.1	1784.9	2593.5	3553.9	3921.5	4038.7
22.5°	244.7	268.0	306.2	390.8	757.5	1574.5	2646.6	3897.3	4371.9	4521.7
25°	215.9	239.2	272.7	323.8	509.0	1331.7	2762.9	4399.8	4968.4	5133.1
27.5°	191.7	213.1	242.0	285.7	391.8	1060.9	2866.2	4889.3	5512.8	5646.8
30°	169.4	187.0	215.0	248.5	325.7	818.0	2918.3	5317.4	5909.2	6058.1
32.5°	147.0	163.8	190.8	217.8	268.0	623.5	2882.0	5631.9	6294.5	6389.4
35°	125.6	143.3	165.6	190.8	231.7	503.4	2700.6	5985.5	6693.7	6768.1
37.5°	107.9	122.8	146.1	165.6	209.4	402.9	2480.9	6303.8	7141.3	7248.3
40°	91.2	106.1	129.4	147.0	192.6	317.3	2282.7	6657.4	7613.1	7745.3
42.5°	74.4	92.1	112.6	141.4	165.6	242.0	2042.6	6944.0	7967.7	8133.3
45°	59.6	79.1	101.4	140.5	144.2	184.3	1810.9	7167.4	8281.3	8430.2
47.5°	47.5	67.0	97.7	131.2	118.2	146.1	1678.8	7400.9	8541.8	8660.9
50°	38.2	55.8	102.4	115.4	98.6	123.8	1675.1	7661.5	8676.8	8755.9
52.5°	30.7	45.6	86.5	88.4	83.8	108.9	1775.6	7954.6	8814.5	8879.6
55°	26.1	38.2	56.8	65.1	75.4	98.6	1850.9	8406.0	9143.0	9204.4
57.5°	20.5	32.6	43.7	52.1	67.0	90.3	1861.2	8754.0	9559.0	9599.0
59°	17.7	27.9	39.1	46.5	61.4	84.7	1819.3	8775.4	9585.9	9650.2
60°	14.9	25.1	34.4	43.7	56.8	80.0	1773.7	8620.0	9485.4	9557.1
62.5°	11.2	19.5	25.1	35.4	46.5	68.9	1557.8	8077.5	9101.1	9151.4
65°	7.4	14.0	18.6	26.1	36.3	59.6	1269.3	7374.0	8507.4	8620.0
67.5°	4.7	10.2	14.9	19.5	29.8	50.3	904.5	6323.3	7676.4	7749.0
70°	2.8	6.5	11.2	15.8	23.3	40.0	536.9	4998.2	6386.6	6401.5
72.5°	1.9	4.7	7.4	11.2	18.6	36.3	260.6	3258.0	4663.2	4840.9
75°	0.9	2.8	4.7	8.4	14.9	29.8	124.7	2176.6	3392.9	3444.1
77.5°	0.0	0.9	2.8	5.6	11.2	23.3	72.6	1429.4	2313.4	2366.5
80°	0.0	0.0	1.9	4.7	8.4	14.9	43.7	843.1	1401.5	1427.5
82.5°	0.0	0.0	0.9	3.7	5.6	11.2	22.3	370.4	917.6	926.9
85°	0.0	0.0	0.9	3.7	4.7	7.4	8.4	50.3	407.6	415.0
87.5°	0.0	0.0	0.9	4.7	4.7	4.7	4.7	2.8	34.4	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)