

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: P647174

Luminaire Tested: **GALN-SA9C-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647174  
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-SA9C-835-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1050mA 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: 37166.6 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G3

Input Watts (W): 481  
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

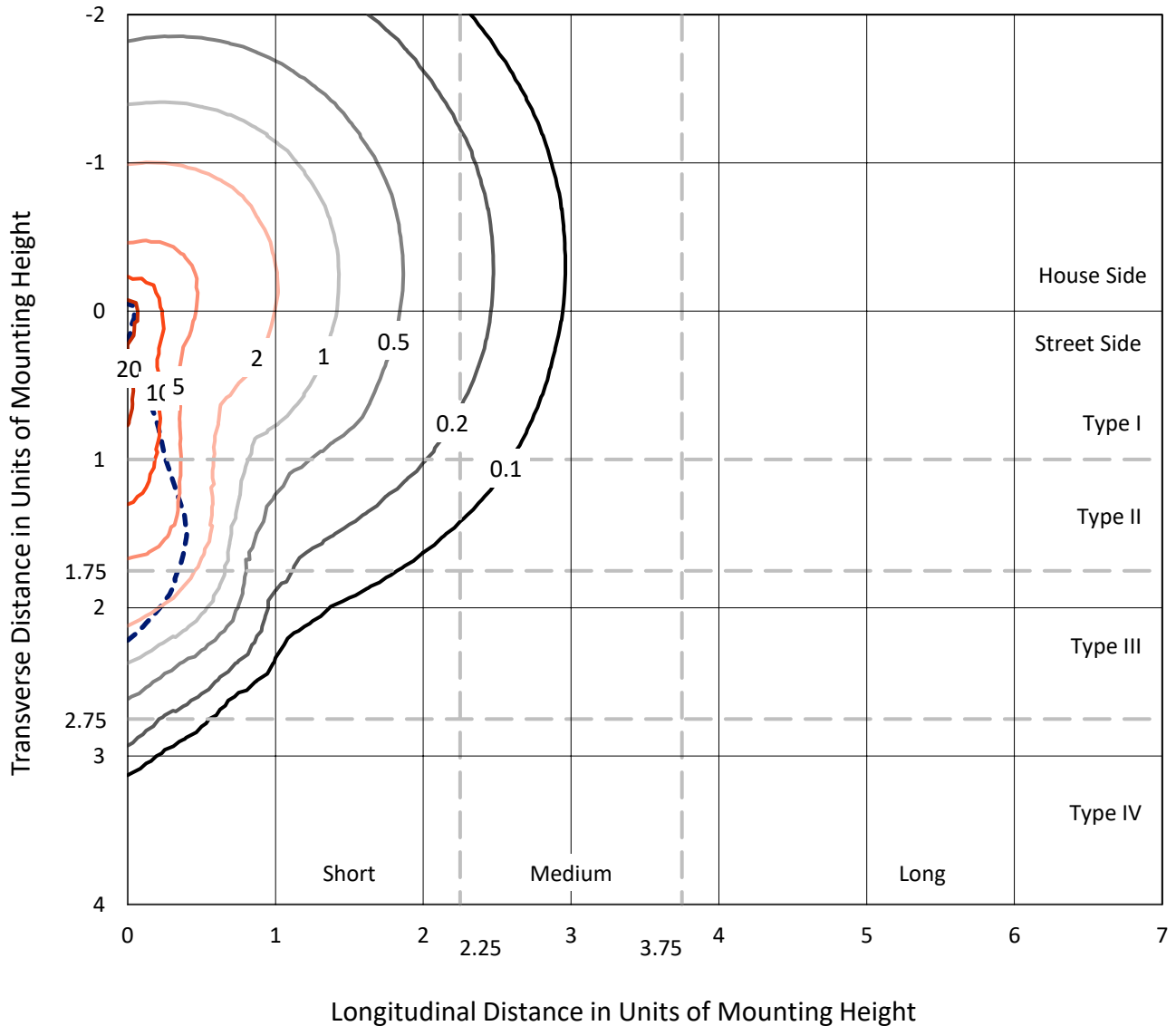




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### Iso-Footcandle Lines of Horizontal Illumination

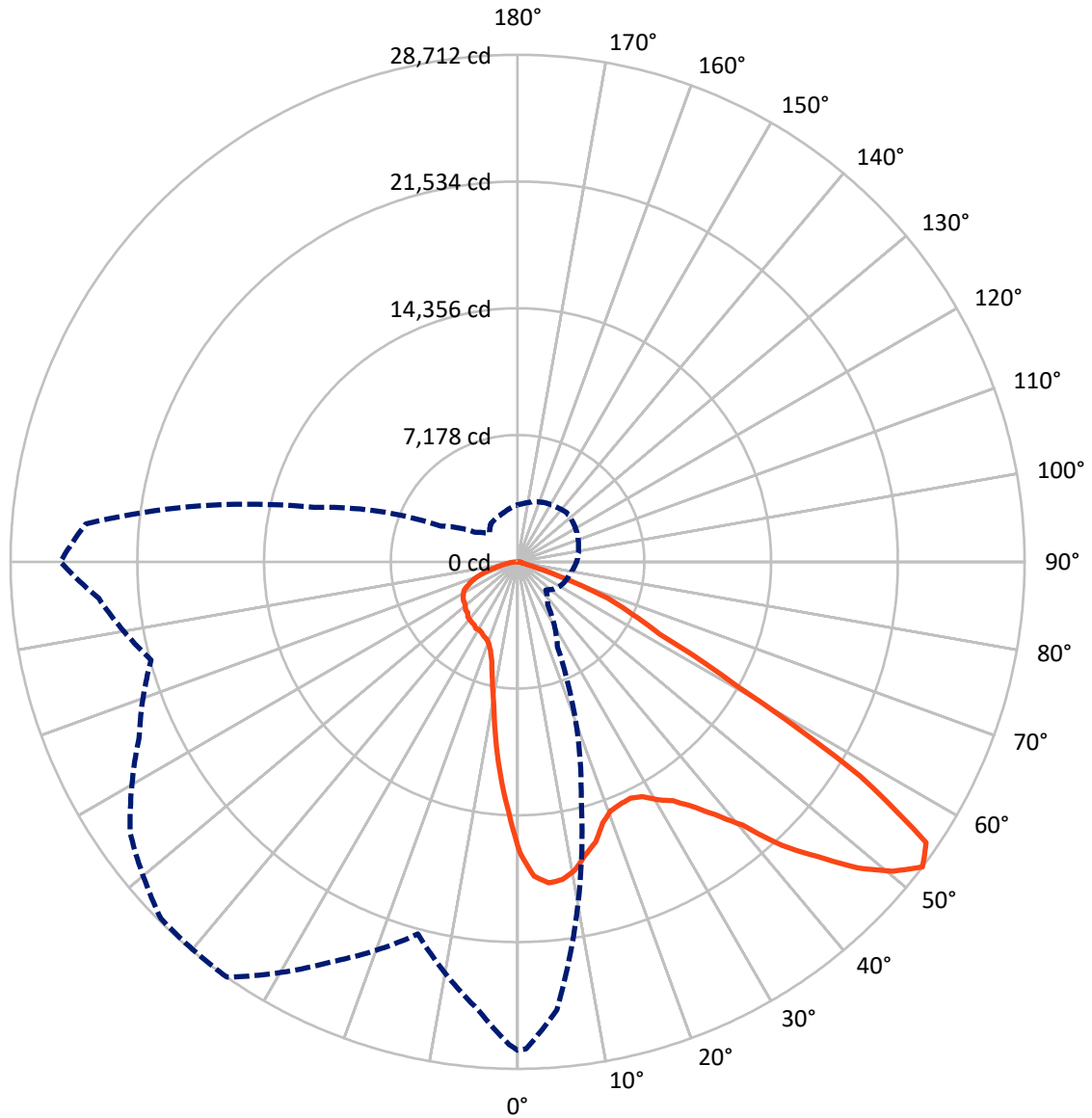
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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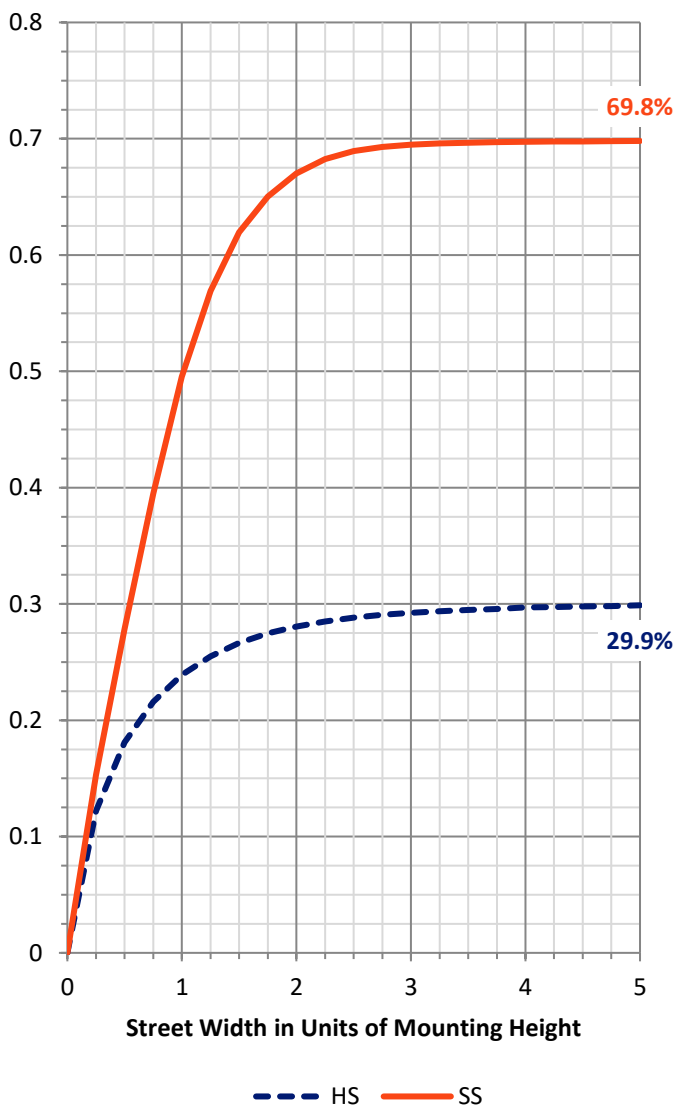
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11204.2	0.0	11204.2
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	25962.5	0.0	25962.5
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	37166.6	0.0	37166.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1258.4	3.4
10°-20°	2728.0	7.3
20°-30°	4121.8	11.1
30°-40°	5956.2	16.0
40°-50°	7926.7	21.3
50°-60°	8866.2	23.9
60°-70°	4996.9	13.4
70°-80°	1113.9	3.0
80°-90°	198.4	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°	37166.6	100.0
0°-180°	37166.6	100.0

**Coefficient of Utilization**

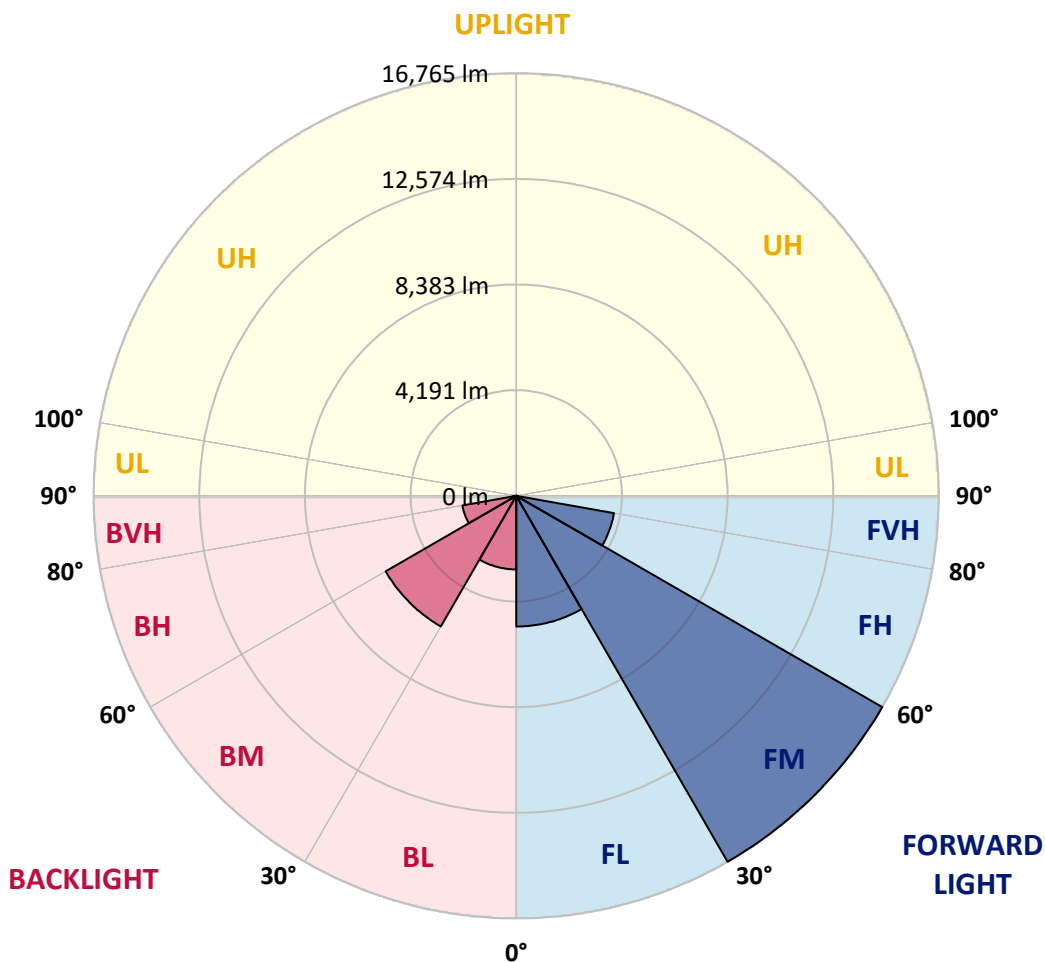


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5186.5	14.0			
FM (30°-60°)	16765.0	45.1			
FH (60°-80°)	3939.1	10.6			G2/5000
FVH (80°-90°)	71.8	0.2			G1/100
BL (0°-30°)	2921.8	7.9	B4/5000		
BM (30°-60°)	5984.1	16.1	B4/8500		
BH (60°-80°)	2171.7	5.8	B3/2500		G3/2500
BVH (80°-90°)	126.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8
2.5°	16769.5	17038.9	16748.0	16230.8	15864.5	15530.6	15180.4	15110.3	14652.4	14571.6	14237.7
5°	15816.1	15756.8	15401.2	14722.5	13973.7	13294.9	12794.0	12309.2	11980.5	11598.0	11571.1
7.5°	14657.8	14313.1	14108.4	13079.5	12152.9	11086.3	10628.4	9890.4	9658.8	9314.0	9136.3
10°	13623.6	13370.4	12890.9	11862.1	10569.2	9863.5	9373.3	8974.7	8705.3	8349.8	7902.7
12.5°	13111.8	13009.5	12470.8	10876.2	9917.3	9163.2	8818.4	8430.6	7972.7	7401.6	7180.8
15°	13203.3	12858.6	12449.2	10687.7	9362.5	8635.2	8085.8	7601.0	7013.8	6469.7	6151.9
17.5°	13887.5	13623.6	12804.7	10806.2	9152.4	8101.9	7105.3	6388.9	5861.0	5370.8	5149.9
20°	15234.3	14851.8	13930.6	10957.0	8699.9	7358.6	6216.6	5333.1	4767.5	4508.8	4433.4
22.5°	16726.4	16500.2	15029.5	11296.4	8339.0	6669.0	5273.8	4390.4	4180.3	4110.2	4250.3
25°	18541.8	17954.7	16737.2	11851.3	8058.9	6081.9	4476.6	3986.3	3878.6	3948.6	4110.2
27.5°	19920.9	19764.6	17933.1	12373.7	7676.4	5376.2	4029.4	3706.2	3738.5	3808.6	3959.4
30°	21558.5	20766.6	19091.3	12734.7	7331.6	4891.3	3717.0	3630.8	3663.1	3781.7	3857.1
32.5°	22544.3	22248.0	19818.5	13278.8	6933.0	4471.2	3474.6	3393.8	3442.2	3620.0	3797.8
35°	23799.4	23212.3	20718.2	13418.8	6652.8	4304.2	3302.2	3243.0	3356.1	3480.0	3679.2
37.5°	25264.7	24860.7	21962.5	13321.9	6502.0	4131.8	3156.7	3129.8	3210.6	3383.0	3614.6
40°	26132.0	26008.1	22614.4	13381.2	6265.0	3980.9	2989.7	3022.1	3189.1	3323.8	3550.0
42.5°	26967.0	26158.9	23578.6	13359.6	6114.1	3776.3	3005.9	2968.2	3097.5	3253.7	3469.2
45°	27150.1	26347.5	23804.8	13208.7	5931.0	3576.9	2882.0	2898.2	3054.4	3248.4	3388.4
47.5°	27031.7	26439.1	24225.1	13165.7	5758.7	3436.9	2698.8	2892.8	2984.3	3140.6	3339.9
50°	26950.9	26918.5	24580.6	13370.4	5527.0	3216.0	2478.0	2822.7	2914.3	3070.5	3286.0
52.5°	27661.9	27591.9	25469.4	13909.1	5343.8	2979.0	2251.8	2645.0	2865.9	3016.7	3226.7
55°	28092.9	27785.8	26993.9	14571.6	5036.8	2666.5	2095.5	2424.1	2747.3	2882.0	3097.5
57.5°	25270.1	25060.0	24419.0	13602.0	4519.6	2257.2	1901.6	2197.9	2585.7	2795.8	3016.7
60°	21025.2	20696.6	19053.6	11560.4	3334.5	1756.1	1783.0	2020.1	2542.6	2623.4	2882.0
62.5°	19823.9	19010.5	16774.9	9303.2	2558.8	1508.4	1599.9	1858.5	2316.3	2451.0	2709.6
65°	15729.8	15126.5	12002.1	6717.5	1713.0	1309.0	1459.8	1675.3	1998.5	2262.5	2499.6
67.5°	9847.3	9270.9	6405.1	3178.3	1195.9	1120.5	1303.6	1529.9	1793.9	2030.9	2294.8
70°	5144.5	4514.2	2957.4	1147.4	824.2	915.8	1088.1	1303.6	1562.2	1756.1	1960.9
72.5°	1917.7	1556.8	964.3	495.6	571.0	700.3	883.5	1039.7	1222.8	1459.8	1573.0
75°	296.3	253.2	247.8	301.7	387.9	506.4	630.2	786.5	948.1	1098.9	1174.3
77.5°	140.1	134.7	150.8	199.4	258.5	361.0	457.9	608.7	738.0	835.0	878.1
80°	91.6	86.2	96.9	134.7	193.9	269.4	366.3	468.6	587.2	668.0	657.2
82.5°	53.9	59.3	59.3	91.6	134.7	193.9	263.9	355.6	436.4	506.4	463.3
85°	32.3	26.9	26.9	53.9	91.6	156.2	220.9	150.8	156.2	156.2	177.7
87.5°	10.8	10.8	10.8	5.4	10.8	10.8	16.1	26.9	32.3	37.7	48.5
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°	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8
2.5°	14226.9	14393.9	14334.6	14124.5	14286.1	14313.1	14205.3	14577.0	14647.1	14534.0	14566.3
5°	11533.4	11576.5	11673.5	11878.2	12023.7	12196.0	12196.0	12206.8	12061.3	12427.6	12320.0
7.5°	8985.4	9012.3	9125.5	9561.8	9685.7	10014.3	10154.3	10057.4	9766.5	9642.6	9745.0
10°	7757.2	7601.0	7563.2	7617.1	7897.3	8037.3	8155.8	8123.5	8075.0	7978.1	7870.3
12.5°	6938.4	6825.3	6733.6	6604.4	6620.6	6755.3	6846.8	6771.4	6792.9	6814.4	6846.8
15°	6049.5	5968.7	5920.3	5726.3	5704.8	5796.3	5828.7	5871.8	5952.6	5957.9	5920.3
17.5°	5106.8	5036.8	5144.5	5252.3	5176.9	5182.2	5241.5	5279.2	5257.6	5160.7	5112.2
20°	4460.4	4535.8	4643.5	4745.9	4826.7	4875.2	4896.7	4837.5	4767.5	4568.1	4562.7
22.5°	4271.8	4368.8	4460.4	4616.6	4692.0	4815.9	4702.8	4568.1	4471.2	4374.2	4261.1
25°	4131.8	4212.6	4395.8	4455.0	4600.4	4702.8	4622.0	4487.3	4320.4	4180.3	4094.1
27.5°	4029.4	4121.0	4239.6	4401.1	4514.2	4573.5	4492.7	4438.8	4266.5	4099.5	3975.5
30°	3964.8	4061.7	4277.2	4411.9	4508.8	4557.4	4417.3	4352.6	4228.7	4088.7	3980.9
32.5°	3921.7	4007.9	4191.0	4363.4	4428.0	4428.0	4449.6	4374.2	4201.8	3964.8	3873.2
35°	3781.7	3900.1	4051.0	4250.3	4368.8	4438.8	4331.1	4244.9	4131.8	3889.4	3722.4
37.5°	3700.8	3781.7	3975.5	4164.1	4266.5	4341.9	4298.7	4147.9	3997.1	3797.8	3663.1
40°	3614.6	3743.9	3916.3	4094.1	4207.2	4282.6	4250.3	4072.5	3889.4	3700.8	3609.2
42.5°	3555.4	3641.6	3819.3	4018.7	4153.3	4298.7	4201.8	3980.9	3851.7	3593.1	3490.8
45°	3506.9	3647.0	3835.5	3916.3	4056.3	4207.2	4034.8	3900.1	3749.3	3560.8	3474.6
47.5°	3447.6	3576.9	3700.8	3916.3	3980.9	4051.0	4018.7	3803.2	3673.9	3469.2	3410.0
50°	3426.1	3474.6	3700.8	3819.3	3910.9	3980.9	3894.7	3733.1	3609.2	3399.2	3269.9
52.5°	3339.9	3431.5	3576.9	3733.1	3846.3	3932.5	3792.4	3690.0	3523.0	3302.2	3221.4
55°	3232.1	3286.0	3544.6	3706.2	3765.4	3824.7	3770.8	3603.8	3431.5	3205.2	3124.4
57.5°	3092.1	3216.0	3426.1	3652.3	3727.8	3760.0	3673.9	3539.2	3323.8	3124.4	2995.1
60°	2946.7	3075.9	3307.5	3490.8	3566.2	3684.6	3555.4	3474.6	3226.7	3005.9	2865.9
62.5°	2801.2	2946.7	3119.0	3350.7	3415.3	3463.8	3431.5	3318.4	3119.0	2871.3	2698.8
65°	2628.8	2736.6	2952.1	3070.5	3113.7	3226.7	3113.7	3070.5	2892.8	2655.8	2510.3
67.5°	2370.2	2461.8	2650.4	2763.5	2795.8	2844.3	2838.9	2790.5	2591.1	2429.5	2300.2
70°	2073.9	2154.7	2273.3	2408.0	2424.1	2483.4	2429.5	2418.8	2289.4	2068.6	1998.5
72.5°	1664.6	1740.0	1896.2	1955.5	1960.9	1982.4	1955.5	1917.7	1885.5	1653.8	1583.8
75°	1276.7	1319.8	1395.2	1449.1	1449.1	1476.0	1459.8	1422.2	1336.0	1190.6	1120.5
77.5°	888.9	931.9	1028.9	1061.2	1055.9	1066.6	1018.1	980.4	851.1	775.7	716.4
80°	646.4	673.4	721.8	743.4	748.8	764.9	705.7	673.4	598.0	511.8	484.8
82.5°	468.6	484.8	490.2	517.2	517.2	490.2	474.0	441.7	387.9	334.0	312.4
85°	193.9	199.4	204.7	237.0	242.4	290.9	269.4	253.2	220.9	188.5	172.4
87.5°	48.5	53.9	70.0	59.3	70.0	70.0	75.4	86.2	86.2	70.0	70.0
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°	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8
2.5°	14690.2	14733.2	15282.8	15352.8	15622.1	15896.9	16451.7	16850.3	17173.5	17383.6	17442.9
5°	12433.0	12707.8	12961.0	13370.4	13742.0	14270.0	14878.7	15632.9	16581.0	17065.8	17259.7
7.5°	9734.2	10057.4	10423.7	10822.3	11366.4	12314.6	13127.9	14000.7	15212.7	15713.7	16473.2
10°	7945.7	8306.7	8791.4	9098.5	9755.7	10660.8	11608.8	12616.2	13774.4	14496.2	15374.3
12.5°	7024.5	7320.8	7768.0	8414.4	8904.6	9491.8	10197.5	11468.8	13127.9	13812.1	14415.4
15°	6006.4	6335.0	6852.2	7568.6	8155.8	8856.1	9648.0	11032.5	12799.4	13855.2	14367.0
17.5°	5166.1	5403.1	5947.2	6566.7	7240.0	8005.0	9141.6	11010.9	13144.1	14496.2	15331.2
20°	4584.3	4616.6	4912.9	5440.8	6356.6	7353.2	8829.2	10903.1	14248.4	15600.6	16656.4
22.5°	4217.9	4185.7	4191.0	4638.2	5279.2	6712.1	8339.0	11269.5	15503.6	17356.7	18067.8
25°	4034.8	3948.6	3894.7	3991.7	4573.5	5952.6	7967.3	11754.3	16855.7	18805.8	19678.4
27.5°	3937.9	3787.0	3679.2	3695.4	4121.0	5570.1	7735.6	11964.4	18197.1	20825.9	21132.9
30°	3900.1	3711.6	3555.4	3501.5	3781.7	5036.8	7240.0	12325.3	19398.4	21935.6	22199.5
32.5°	3765.4	3533.8	3383.0	3334.5	3447.6	4568.1	6884.5	12583.9	20459.6	23142.3	23050.7
35°	3609.2	3415.3	3226.7	3135.2	3216.0	4266.5	6599.0	12460.0	21709.4	24079.6	24031.1
37.5°	3593.1	3339.9	3183.7	3032.9	3027.5	3894.7	6211.1	12578.5	22506.6	25760.3	25097.7
40°	3453.0	3291.4	3086.7	2962.8	2892.8	3706.2	5834.1	12298.3	23675.6	26439.1	25787.2
42.5°	3458.4	3216.0	3038.2	2892.8	2822.7	3431.5	5575.5	12222.9	24085.0	27543.4	26110.5
45°	3372.2	3135.2	2984.3	2812.0	2774.2	3221.4	5327.7	11872.8	24806.8	27597.2	25706.4
47.5°	3286.0	3075.9	2914.3	2709.6	2623.4	3145.9	5133.7	11581.9	24429.8	27090.9	25146.2
50°	3226.7	2984.3	2833.5	2688.1	2445.7	3016.7	4880.6	11511.9	23901.9	26406.8	24106.5
52.5°	3124.4	2908.9	2752.7	2639.6	2251.8	2898.2	4783.6	11921.3	24548.2	25895.0	23804.8
55°	3027.5	2806.6	2607.3	2386.4	2090.1	2585.7	4514.2	12303.7	25491.0	27074.7	25173.1
57.5°	2925.1	2715.1	2499.6	2235.5	1933.9	2262.5	4234.2	12373.7	23724.0	25022.3	23896.5
60°	2790.5	2521.1	2359.5	2014.7	1766.9	1874.7	3356.1	10908.5	18401.8	20895.9	20933.7
62.5°	2639.6	2348.7	2208.6	1804.7	1594.5	1616.1	2736.6	9168.5	14927.2	17297.4	18326.3
65°	2440.3	2160.1	1993.2	1670.0	1470.6	1400.6	2003.9	6717.5	11339.5	14032.9	15201.9
67.5°	2181.7	1917.7	1707.6	1454.5	1314.4	1201.3	1368.3	3781.7	6696.0	9421.8	9777.3
70°	1907.0	1680.7	1459.8	1249.7	1093.5	1012.7	1002.0	1675.3	3199.8	5069.1	5769.4
72.5°	1503.0	1341.4	1163.6	1007.3	905.0	786.5	716.4	694.9	1082.8	2063.2	2849.7
75°	1077.4	942.7	840.4	738.0	662.6	598.0	544.1	495.6	452.5	517.2	711.0
77.5°	678.8	630.2	549.4	522.5	479.4	463.3	441.7	414.8	382.5	361.0	361.0
80°	457.9	425.6	398.6	393.2	377.1	371.7	377.1	350.2	317.8	290.9	301.7
82.5°	307.1	301.7	296.3	290.9	296.3	301.7	312.4	307.1	280.2	263.9	269.4
85°	183.1	193.9	204.7	215.5	237.0	210.1	172.4	145.5	129.3	118.5	113.1
87.5°	70.0	96.9	86.2	80.8	86.2	80.8	75.4	70.0	59.3	53.9	53.9
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: P647174

CATALOG NUMBER: GALN-SA9C-835-U-SLR-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8	16494.8
2.5°	17836.1	17943.9	18035.5	18013.9	17825.4	17572.2	17469.8	16947.3	16839.6	16769.5
5°	18078.5	18703.4	18838.1	18757.3	18267.1	17647.6	17044.3	16279.4	15832.2	15816.1
7.5°	17631.4	18401.8	18644.2	18827.3	18175.5	17098.1	16063.9	14916.4	14636.3	14657.8
10°	16494.8	17723.0	18320.9	18509.5	17760.7	16828.8	15395.9	14232.3	13634.3	13623.6
12.5°	15864.5	16828.8	16995.8	17259.7	17038.9	16096.1	15008.0	13704.4	13122.6	13111.8
15°	15304.3	15939.9	15988.4	16360.1	16478.6	15843.0	15110.3	13720.5	13251.9	13203.3
17.5°	15794.5	15352.8	15169.6	15218.1	15568.2	15799.8	15702.9	14636.3	14156.9	13887.5
20°	16123.1	15137.3	14582.4	14636.3	15051.1	15896.9	16586.4	15961.5	15201.9	15234.3
22.5°	17001.2	15169.6	14302.3	14243.1	14900.3	16403.2	17583.0	17636.8	16904.2	16726.4
25°	18315.5	15541.3	14216.1	14199.9	14830.3	16947.3	18746.5	19619.2	18870.5	18541.8
27.5°	19371.4	16123.1	14485.5	14539.4	15051.1	17389.0	19737.7	20895.9	20324.9	19920.9
30°	20297.9	16726.4	14862.5	14614.8	15643.6	17620.6	20163.3	22350.4	21892.5	21558.5
32.5°	20680.4	17583.0	15460.5	15051.1	16133.9	17900.8	21046.7	23761.8	23368.6	22544.3
35°	21326.9	18062.4	15783.7	15751.4	16990.4	18574.2	21461.6	24693.7	24532.1	23799.4
37.5°	21844.1	18547.2	16931.1	16575.6	18164.7	19705.4	22129.5	25981.2	25609.5	25264.7
40°	22242.7	19414.5	18003.1	18471.8	19608.4	20734.3	22743.6	26062.0	27134.0	26132.0
42.5°	21876.3	20190.2	19764.6	20885.1	21962.5	21908.7	22813.6	26686.9	27489.6	26967.0
45°	21784.8	21504.6	22549.7	23567.8	23815.6	22883.7	22312.7	25997.3	27381.8	27150.1
47.5°	21563.9	22797.5	24618.3	26277.5	25900.4	23535.5	21714.7	25873.5	27446.4	27031.7
50°	21488.5	23077.6	26148.2	27764.2	27538.0	24101.1	21434.6	25076.2	26988.5	26950.9
52.5°	21483.1	23654.0	26783.8	28572.3	28712.4	24995.4	21817.1	25480.2	27344.1	27661.9
55°	21725.5	23470.9	26703.0	28125.2	28071.3	24596.8	21860.2	25749.6	27780.4	28092.9
57.5°	20491.9	21025.2	22037.9	23163.8	22872.9	20373.3	19522.2	23804.8	25496.4	25270.1
60°	17696.1	16026.1	14884.1	14830.3	14264.6	13483.5	15977.7	21246.1	21246.1	21025.2
62.5°	15498.2	10520.7	9039.3	8619.1	9023.1	9922.7	15412.0	20664.3	20077.1	19823.9
65°	13553.5	8031.9	6534.4	6415.8	7116.1	8473.6	13936.0	17604.5	16570.2	15729.8
67.5°	8721.4	5882.5	4859.0	4648.9	5494.7	6221.9	9276.3	10827.7	10175.9	9847.3
70°	5624.0	3830.1	2704.2	2537.2	2865.9	3835.5	5925.7	6313.5	5365.4	5144.5
72.5°	2661.2	1653.8	948.1	781.1	878.1	1465.2	2343.3	2521.1	2095.5	1917.7
75°	845.7	608.7	387.9	334.0	317.8	377.1	538.7	414.8	301.7	296.3
77.5°	377.1	361.0	307.1	258.5	226.3	188.5	156.2	129.3	134.7	140.1
80°	312.4	285.5	253.2	226.3	188.5	145.5	113.1	86.2	86.2	91.6
82.5°	274.8	247.8	220.9	188.5	161.6	118.5	86.2	59.3	53.9	53.9
85°	118.5	140.1	150.8	161.6	129.3	96.9	59.3	37.7	32.3	32.3
87.5°	48.5	43.1	37.7	32.3	26.9	26.9	21.5	16.1	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)