

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: P458699

Luminaire Tested: **GALN-SA2C-735-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458699  
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-SA2C-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA 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: 9458 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

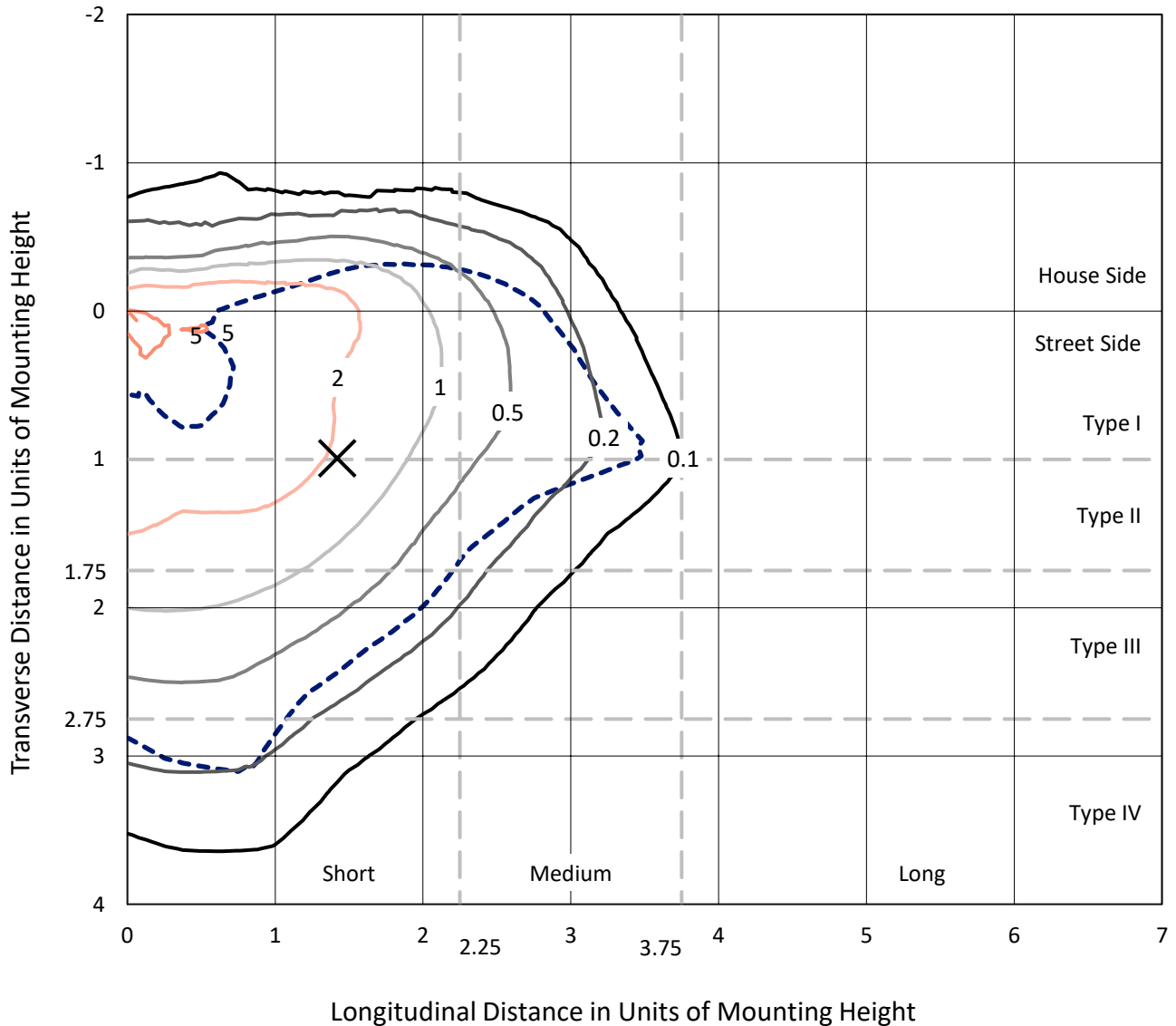
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

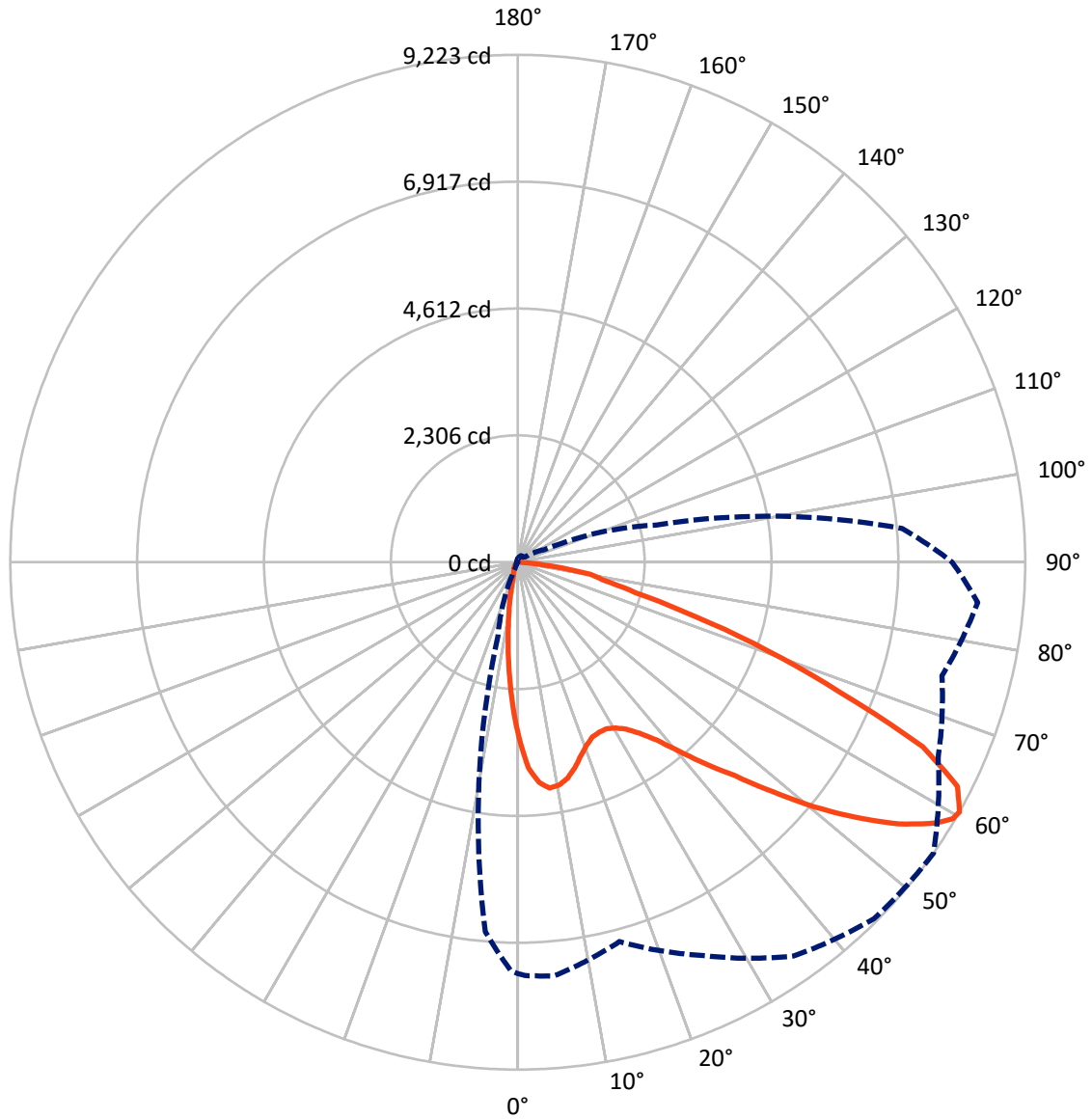
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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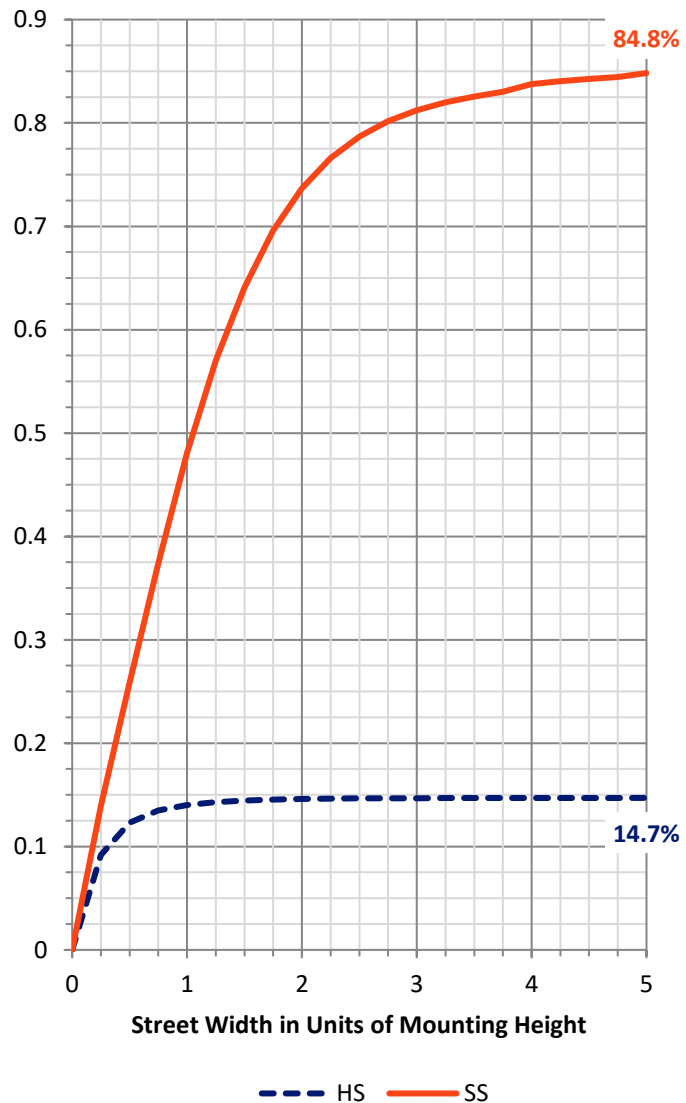
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1403.7	0.0	1403.7
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	8054.3	0.0	8054.3
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	9458.0	0.0	9458.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.1	2.5
10°-20°	467.0	4.9
20°-30°	691.2	7.3
30°-40°	1030.4	10.9
40°-50°	1509.0	16.0
50°-60°	2178.5	23.0
60°-70°	2291.7	24.2
70°-80°	942.7	10.0
80°-90°	110.4	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°	9458.0	100.0
0°-180°	9458.0	100.0



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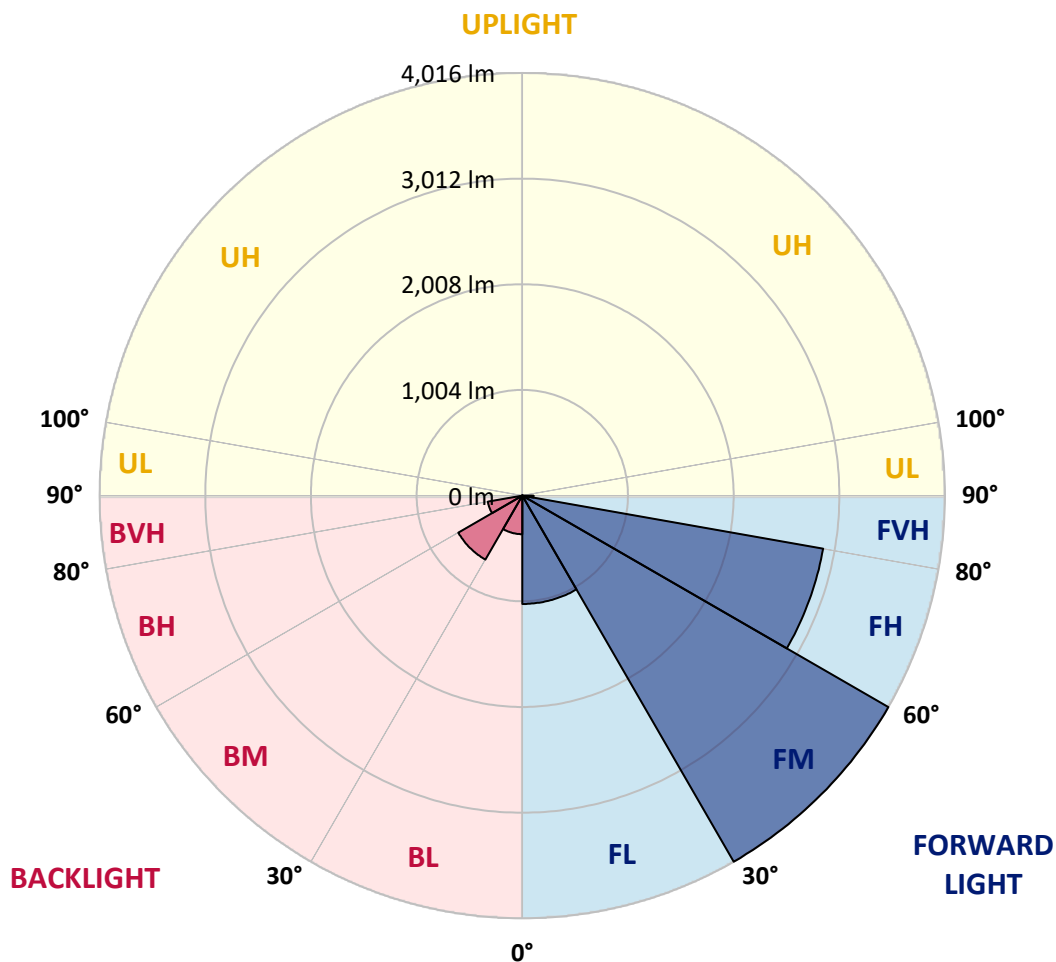
CATALOG NUMBER: GALN-SA2C-735-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1029.2	10.9			
FM (30°-60°)	4015.9	42.5			
FH (60°-80°)	2902.1	30.7			G2/5000
FVH (80°-90°)	107.2	1.1			G2/225
BL (0°-30°)	366.2	3.9	B1/500		
BM (30°-60°)	702.0	7.4	B1/1000		
BH (60°-80°)	332.2	3.5	B1/500		G1/500
BVH (80°-90°)	3.2	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°	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5
2.5°	3498.7	3492.9	3544.6	3629.1	3714.2	3758.6	3749.9	3746.3	3675.6	3624.0	3515.5
5°	3491.5	3521.3	3613.8	3842.4	4015.6	4099.3	4124.1	4020.0	3882.4	3682.9	3436.9
7.5°	3282.5	3319.7	3470.4	3827.8	4135.7	4317.7	4311.2	4144.5	3860.6	3551.9	3201.0
10°	3023.4	3067.0	3243.9	3677.8	4077.5	4317.7	4330.8	4119.7	3766.6	3370.6	3001.5
12.5°	2840.6	2892.3	3088.2	3538.1	3927.5	4164.1	4179.4	4026.5	3696.0	3300.7	2893.1
15°	2778.8	2827.5	3026.3	3467.4	3768.1	3895.5	3891.9	3875.8	3668.4	3317.5	2898.9
17.5°	2885.0	2925.1	3149.3	3499.5	3618.9	3605.8	3624.7	3701.9	3674.2	3458.0	3082.3
20°	3159.5	3200.3	3441.2	3597.8	3504.6	3421.6	3430.3	3559.2	3728.1	3722.2	3369.2
22.5°	3537.3	3606.5	3824.9	3788.5	3489.3	3307.3	3289.1	3456.5	3819.8	4026.5	3756.5
25°	4015.6	4085.5	4255.9	4092.8	3564.3	3280.3	3263.6	3425.2	3931.2	4323.6	4192.5
27.5°	4417.5	4470.6	4640.2	4389.1	3674.9	3292.0	3264.3	3429.6	4021.4	4576.2	4560.2
30°	4739.3	4778.6	4878.3	4527.4	3770.3	3343.0	3310.9	3493.7	4061.5	4699.2	4857.9
32.5°	4998.4	5064.7	5096.0	4675.2	3907.2	3439.1	3384.5	3616.7	4159.0	4851.4	5170.2
35°	5294.7	5371.2	5331.1	4816.4	4087.7	3589.0	3522.0	3816.2	4306.8	4991.9	5532.8
37.5°	5670.4	5758.4	5601.9	4964.9	4278.4	3814.7	3783.4	4096.4	4531.0	5192.8	5921.5
40°	6059.1	6110.1	5864.7	5145.5	4512.8	4143.0	4172.9	4512.8	4824.4	5433.8	6335.0
42.5°	6362.7	6410.7	6134.8	5296.9	4752.4	4532.5	4657.0	5015.2	5160.8	5680.5	6643.7
45°	6594.9	6635.7	6321.9	5462.2	5075.6	5096.7	5331.8	5532.8	5497.8	5831.2	6881.7
47.5°	6775.5	6810.4	6466.1	5639.8	5559.7	5786.8	6146.5	6231.6	5847.3	5994.3	7097.2
50°	6849.7	6859.9	6511.2	5866.2	6109.3	6666.3	7041.2	6989.5	6247.7	6175.6	7326.5
52.5°	6946.5	6944.4	6640.0	6081.7	6626.2	7452.5	7826.7	7709.5	6700.5	6447.1	7584.3
55°	7200.6	7203.5	6916.0	6387.4	7066.7	8087.3	8487.7	8402.5	7178.0	6905.8	7884.9
57.5°	7509.3	7520.2	7308.3	6744.9	7487.4	8547.4	8981.3	8948.5	7823.8	7416.1	8168.8
59°	7549.3	7571.2	7494.0	6996.8	7737.1	8688.6	9150.2	9182.2	8169.6	7752.4	8322.4
60°	7476.5	7512.9	7547.9	7139.5	7883.5	8739.6	9160.4	9223.0	8429.5	7981.0	8392.3
62.5°	7159.1	7216.6	7392.1	7578.4	8066.2	8580.9	8835.0	8966.0	8751.2	8581.6	8398.9
65°	6743.4	6773.3	7026.6	7656.3	7711.7	7839.8	7918.4	8086.6	8364.7	8813.1	8098.2
67.5°	6062.0	6150.1	6460.2	7204.2	6665.5	6514.1	6494.4	6327.0	7049.2	8261.3	7357.1
70°	5007.9	5047.2	5429.4	5906.2	5030.4	4797.5	4890.7	4828.1	5464.3	7111.8	5921.5
72.5°	3787.0	3875.8	4249.3	4707.9	3423.0	3120.9	3377.9	3354.6	4104.4	5715.5	4068.0
75°	2694.3	2751.8	3227.9	3684.4	2397.3	2031.1	2123.6	2210.2	2865.4	4512.8	2403.8
77.5°	1851.3	1900.8	2258.2	2436.6	1748.6	1675.1	1532.4	1616.2	1877.5	2677.6	1308.2
80°	1116.7	1114.6	1349.7	1393.4	1217.9	1414.5	1186.6	1332.2	1134.9	1145.9	506.7
82.5°	725.1	717.8	825.5	899.8	677.8	712.7	478.3	689.4	739.6	319.6	160.2
85°	324.7	338.5	396.8	523.4	297.0	158.0	97.6	211.8	315.2	160.9	0.0
87.5°	33.5	26.2	69.9	127.4	40.8	4.4	14.6	7.3	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°	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5
2.5°	3465.3	3423.0	3297.1	3179.2	3078.0	2954.2	2874.1	2748.2	2671.7	2648.4	2652.1
5°	3326.2	3204.6	2965.1	2773.7	2560.4	2438.8	2253.9	2076.2	1980.1	1944.5	1928.5
7.5°	3035.0	2904.7	2615.7	2315.0	2086.4	1873.1	1735.5	1579.0	1472.0	1383.9	1368.6
10°	2818.8	2647.7	2289.5	1966.3	1785.8	1625.6	1488.0	1331.5	1205.6	1105.1	1077.4
12.5°	2689.2	2497.8	2098.1	1827.3	1656.2	1491.7	1312.6	1131.3	1002.4	894.0	843.7
15°	2665.9	2443.9	2044.2	1727.5	1516.4	1317.7	1079.6	883.8	751.3	648.6	617.3
17.5°	2806.4	2540.7	2036.2	1623.4	1333.7	1052.0	804.4	642.1	492.9	435.3	412.8
20°	3056.9	2711.8	2035.5	1502.6	1145.9	810.3	564.9	418.6	358.2	330.5	317.4
22.5°	3398.3	2944.7	2074.1	1398.5	950.8	597.7	403.3	333.4	298.5	275.9	270.8
25°	3815.4	3289.8	2168.7	1327.9	801.5	468.8	332.7	285.4	256.3	246.1	241.7
27.5°	4186.0	3620.3	2272.8	1255.1	694.5	415.0	308.7	261.4	238.1	230.0	223.5
30°	4505.6	3920.3	2323.0	1159.0	608.6	380.0	313.0	279.6	249.0	225.0	214.0
32.5°	4772.0	4150.3	2355.8	1071.6	535.8	310.9	247.5	216.2	202.4	193.6	186.4
35°	5105.4	4399.3	2336.1	1022.1	498.7	283.2	225.7	186.4	163.1	145.6	138.3
37.5°	5454.9	4648.3	2301.9	981.3	481.9	262.8	214.8	176.9	151.4	133.2	123.8
40°	5816.7	4879.0	2261.9	943.5	466.6	249.7	208.2	168.9	143.4	123.8	113.6
42.5°	6147.9	5104.0	2245.9	918.7	441.9	251.9	203.1	165.3	135.4	115.0	106.3
45°	6415.8	5317.3	2267.7	905.6	415.0	248.2	204.6	160.9	128.9	109.2	100.5
47.5°	6701.9	5618.7	2338.3	892.5	388.7	230.8	215.5	160.2	125.9	105.6	96.1
50°	7034.6	6004.5	2499.9	860.5	356.7	211.8	229.3	159.4	122.3	101.2	91.7
52.5°	7478.0	6442.8	2666.6	804.4	310.1	193.6	219.1	157.2	115.0	96.1	86.6
55°	7876.2	6904.3	2807.9	738.2	251.2	167.4	197.3	147.8	102.6	87.4	78.6
57.5°	8040.7	7164.9	2803.5	646.5	200.9	147.1	162.3	135.4	89.5	77.2	69.9
59°	7980.3	7132.2	2709.6	578.8	183.5	136.1	134.7	134.0	83.7	69.9	64.1
60°	7895.1	7012.8	2608.4	545.3	172.5	128.9	123.8	132.5	78.6	65.5	59.7
62.5°	7569.0	6517.7	2272.8	488.5	158.0	109.2	99.0	112.1	69.9	56.8	51.7
65°	7096.5	5757.0	1924.1	472.5	153.6	90.3	82.3	80.1	59.7	48.0	43.7
67.5°	6174.9	4871.7	1558.6	461.5	155.1	75.7	72.1	60.4	49.5	40.0	37.1
70°	4943.8	3798.7	1276.2	449.2	156.5	61.9	60.4	48.0	40.0	33.5	30.6
72.5°	3003.7	2251.7	1004.6	390.2	152.2	49.5	53.9	36.4	29.1	24.0	22.6
75°	1857.1	1541.2	623.2	303.6	100.5	36.4	37.9	22.6	19.7	15.3	15.3
77.5°	1076.0	973.3	222.8	109.2	44.4	21.8	16.7	11.6	10.9	6.6	6.6
80°	446.3	357.4	77.2	37.1	24.0	10.2	3.6	0.7	0.0	0.0	0.0
82.5°	130.3	115.8	21.1	16.7	7.3	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°	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5
2.5°	2590.2	2566.2	2555.3	2592.4	2558.2	2601.9	2568.4	2582.9	2625.9	2644.8	2693.6
5°	1938.7	1913.9	1902.3	1958.3	1955.4	1983.1	1980.1	2005.6	2027.5	1978.7	2028.9
7.5°	1350.4	1333.7	1361.4	1405.0	1451.6	1436.3	1436.3	1402.1	1413.8	1406.5	1404.3
10°	1027.2	969.7	955.1	953.7	971.1	974.8	955.1	907.8	925.3	930.4	961.0
12.5°	808.1	763.7	696.0	665.4	657.4	663.9	599.1	557.6	577.3	565.7	595.5
15°	579.5	543.1	503.0	468.8	459.4	446.3	375.6	326.1	320.3	322.5	327.6
17.5°	413.5	388.7	388.7	352.3	332.7	293.4	257.7	235.9	233.7	235.9	239.5
20°	305.0	291.9	290.5	281.0	259.2	233.0	208.2	203.8	202.4	206.0	207.5
22.5°	262.8	249.0	237.3	236.6	216.2	194.4	182.7	176.9	177.6	179.1	182.7
25°	235.1	220.6	208.2	200.9	186.4	171.1	160.2	157.2	157.2	159.4	160.2
27.5°	215.5	197.3	186.4	176.2	163.1	150.0	140.5	138.3	136.9	138.3	142.0
30°	201.7	183.5	169.6	154.3	144.1	131.8	123.8	120.8	120.1	120.8	123.8
32.5°	172.5	161.6	150.7	136.9	124.5	116.5	107.7	102.6	102.6	104.1	107.0
35°	130.3	124.5	123.8	120.1	109.9	101.2	91.0	85.9	85.9	88.8	90.3
37.5°	115.0	104.1	102.6	101.2	96.8	85.2	75.7	71.3	70.6	72.8	75.7
40°	104.8	92.5	85.9	84.4	85.2	72.1	61.9	57.5	57.5	58.2	61.2
42.5°	96.8	82.3	70.6	69.2	72.1	60.4	50.2	45.9	45.9	45.9	49.5
45°	90.3	73.5	59.7	52.4	56.8	49.5	40.8	36.4	34.9	36.4	37.9
47.5°	85.9	67.0	52.4	42.2	42.2	39.3	32.8	27.7	26.2	26.9	29.1
50°	82.3	61.2	44.4	34.2	30.6	31.3	24.8	21.1	19.7	19.7	21.8
52.5°	76.4	55.3	38.6	29.1	23.3	21.1	18.2	15.3	14.6	15.3	16.7
55°	69.2	50.2	33.5	24.0	18.2	14.6	13.1	10.9	10.2	10.9	13.1
57.5°	61.2	42.2	26.9	18.9	12.4	9.5	8.7	7.3	5.8	6.6	8.0
59°	56.1	37.9	23.3	15.3	9.5	6.6	6.6	5.1	3.6	4.4	6.6
60°	53.9	34.9	19.7	13.1	8.0	5.1	5.1	3.6	2.2	2.9	5.1
62.5°	45.9	29.1	15.3	8.0	3.6	0.7	2.2	0.7	0.0	0.7	2.2
65°	38.6	23.3	10.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.7
67.5°	32.0	17.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	25.5	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.4	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: P458699  
 CATALOG NUMBER: GALN-SA2C-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5	3202.5
2.5°	2696.5	2800.6	2864.7	2985.5	3109.3	3204.6	3324.0	3431.0	3475.5	3498.7
5°	2079.9	2224.8	2347.8	2532.0	2703.0	2911.3	3122.4	3371.3	3466.7	3491.5
7.5°	1459.6	1607.4	1736.3	1949.6	2193.5	2472.3	2788.2	3104.2	3243.2	3282.5
10°	1054.1	1212.1	1369.4	1582.7	1810.5	2112.6	2441.7	2832.6	2992.8	3023.4
12.5°	665.4	835.0	1090.5	1354.1	1595.0	1838.2	2182.5	2607.7	2784.6	2840.6
15°	385.8	512.5	705.4	1049.0	1355.5	1677.3	2052.9	2523.2	2721.2	2778.8
17.5°	258.4	302.1	434.6	697.4	1102.2	1528.8	2020.2	2592.4	2811.5	2885.0
20°	217.7	237.3	283.9	425.1	848.8	1396.3	2028.9	2780.2	3067.8	3159.5
22.5°	191.5	209.7	239.5	305.8	592.6	1231.8	2070.4	3048.8	3420.1	3537.3
25°	168.9	187.1	213.3	253.3	398.2	1041.8	2161.4	3442.0	3886.8	4015.6
27.5°	150.0	166.7	189.3	223.5	306.5	829.9	2242.2	3824.9	4312.6	4417.5
30°	132.5	146.3	168.2	194.4	254.8	639.9	2283.0	4159.8	4622.8	4739.3
32.5°	115.0	128.1	149.2	170.4	209.7	487.8	2254.6	4405.8	4924.2	4998.4
35°	98.3	112.1	129.6	149.2	181.3	393.8	2112.6	4682.5	5236.5	5294.7
37.5°	84.4	96.1	114.3	129.6	163.8	315.2	1940.8	4931.4	5586.6	5670.4
40°	71.3	83.0	101.2	115.0	150.7	248.2	1785.8	5208.1	5955.7	6059.1
42.5°	58.2	72.1	88.1	110.7	129.6	189.3	1598.0	5432.3	6233.1	6362.7
45°	46.6	61.9	79.4	109.9	112.8	144.1	1416.7	5607.0	6478.4	6594.9
47.5°	37.1	52.4	76.4	102.6	92.5	114.3	1313.3	5789.7	6682.3	6775.5
50°	29.8	43.7	80.1	90.3	77.2	96.8	1310.4	5993.6	6787.8	6849.7
52.5°	24.0	35.7	67.7	69.2	65.5	85.2	1389.0	6222.9	6895.6	6946.5
55°	20.4	29.8	44.4	51.0	59.0	77.2	1448.0	6576.0	7152.6	7200.6
57.5°	16.0	25.5	34.2	40.8	52.4	70.6	1456.0	6848.3	7478.0	7509.3
59°	13.8	21.8	30.6	36.4	48.0	66.2	1423.2	6865.0	7499.1	7549.3
60°	11.6	19.7	26.9	34.2	44.4	62.6	1387.6	6743.4	7420.5	7476.5
62.5°	8.7	15.3	19.7	27.7	36.4	53.9	1218.7	6319.0	7119.8	7159.1
65°	5.8	10.9	14.6	20.4	28.4	46.6	993.0	5768.6	6655.3	6743.4
67.5°	3.6	8.0	11.6	15.3	23.3	39.3	707.6	4946.7	6005.2	6062.0
70°	2.2	5.1	8.7	12.4	18.2	31.3	420.1	3910.1	4996.2	5007.9
72.5°	1.5	3.6	5.8	8.7	14.6	28.4	203.8	2548.7	3648.0	3787.0
75°	0.7	2.2	3.6	6.6	11.6	23.3	97.6	1702.8	2654.3	2694.3
77.5°	0.0	0.7	2.2	4.4	8.7	18.2	56.8	1118.2	1809.8	1851.3
80°	0.0	0.0	1.5	3.6	6.6	11.6	34.2	659.6	1096.4	1116.7
82.5°	0.0	0.0	0.7	2.9	4.4	8.7	17.5	289.7	717.8	725.1
85°	0.0	0.0	0.7	2.9	3.6	5.8	6.6	39.3	318.9	324.7
87.5°	0.0	0.0	0.7	3.6	3.6	3.6	3.6	2.2	26.9	33.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)