

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: P459482

Luminaire Tested: **GALN-SA9B-735-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459482  
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-SA9B-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA 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: 34510 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

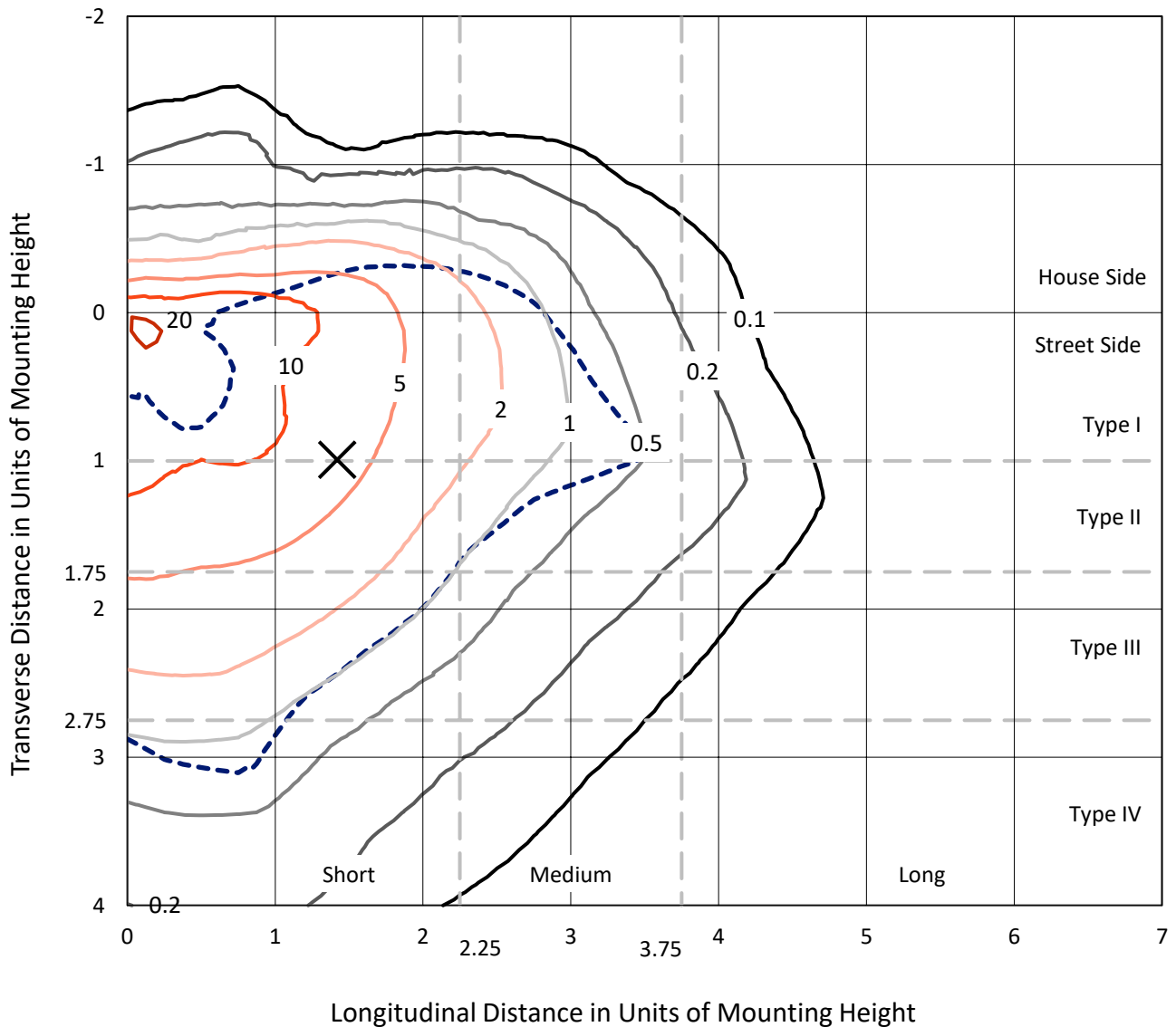
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

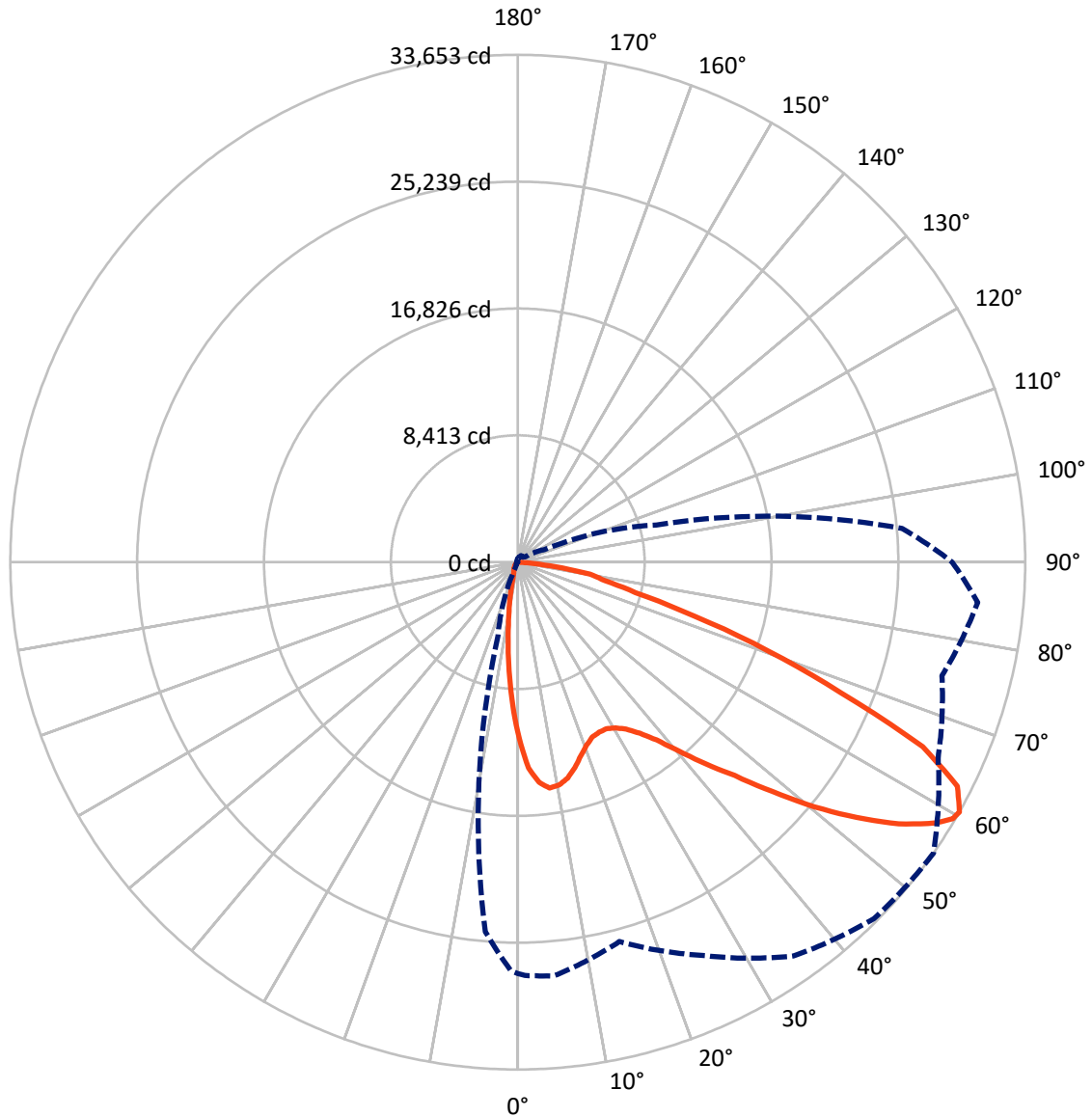
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.1 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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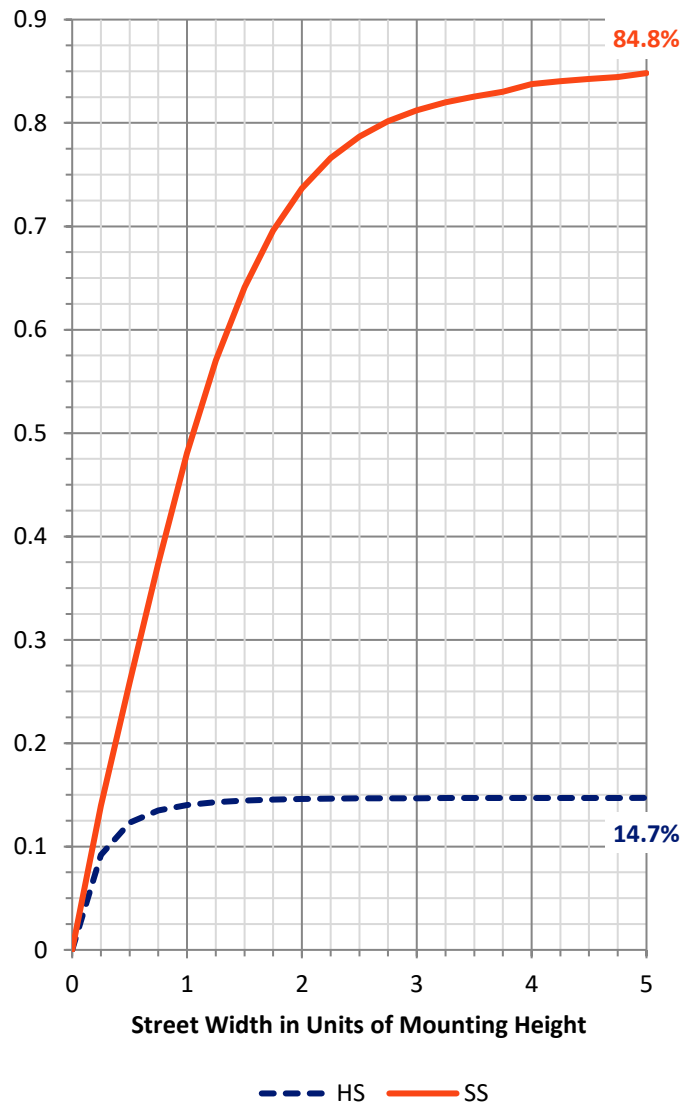
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5121.6	0.0	5121.6
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	29388.4	0.0	29388.4
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	34510.0	0.0	34510.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	865.3	2.5
10°-20°	1704.0	4.9
20°-30°	2522.2	7.3
30°-40°	3759.6	10.9
40°-50°	5505.9	16.0
50°-60°	7948.8	23.0
60°-70°	8361.7	24.2
70°-80°	3439.7	10.0
80°-90°	402.9	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°	34510.0	100.0
0°-180°	34510.0	100.0



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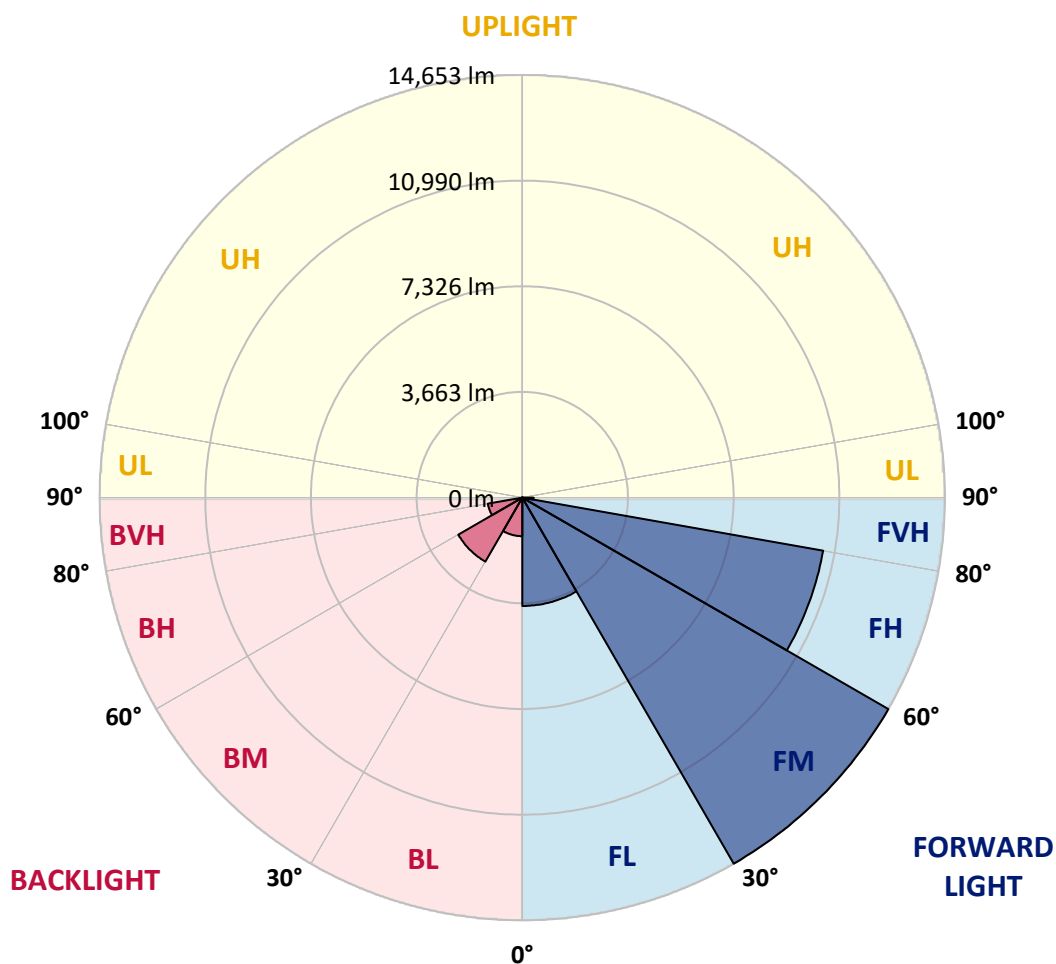
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3755.2	10.9			
FM	(30°-60°)	14653.0	42.5			
FH	(60°-80°)	10589.2	30.7			G4/12000
FVH	(80°-90°)	391.0	1.1			G3/500
BL	(0°-30°)	1336.2	3.9	B3/2500		
BM	(30°-60°)	2561.3	7.4	B3/5000		
BH	(60°-80°)	1212.2	3.5	B3/2500		G3/2500
BVH	(80°-90°)	11.8	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0
2.5°	12766.1	12744.8	12933.4	13241.6	13552.4	13714.4	13682.5	13669.2	13411.6	13223.0	12827.2
5°	12739.5	12848.4	13185.8	14019.9	14652.1	14957.5	15047.8	14668.0	14166.0	13438.1	12540.3
7.5°	11977.2	12112.7	12662.5	13966.7	15090.3	15754.4	15730.5	15122.2	14086.3	12960.0	11679.7
10°	11031.5	11190.9	11836.4	13419.5	14877.8	15754.4	15802.2	15031.9	13743.6	12298.6	10951.9
12.5°	10364.8	10553.4	11268.0	12909.5	14330.6	15193.9	15249.7	14691.9	13486.0	12043.6	10556.1
15°	10139.0	10317.0	11042.2	12651.9	13748.9	14213.8	14200.5	14142.1	13385.0	12104.7	10577.3
17.5°	10526.9	10672.9	11491.1	12768.8	13204.4	13156.6	13225.6	13507.2	13406.3	12617.3	11246.7
20°	11528.3	11677.0	12556.3	13127.4	12787.3	12484.5	12516.4	12986.6	13602.8	13581.6	12293.3
22.5°	12906.9	13159.2	13956.1	13823.3	12731.6	12067.5	12001.1	12612.0	13937.5	14691.9	13706.4
25°	14652.1	14907.1	15528.6	14933.6	13005.2	11969.2	11908.1	12497.8	14343.9	15775.7	15297.5
27.5°	16118.3	16312.2	16931.2	16014.7	13408.9	12011.7	11910.8	12513.8	14673.3	16697.4	16639.0
30°	17292.4	17435.8	17799.8	16519.4	13756.9	12197.7	12080.8	12747.5	14819.4	17146.3	17725.4
32.5°	18238.0	18479.8	18594.0	17058.7	14256.3	12548.3	12349.1	13196.4	15175.3	17701.5	18864.9
35°	19319.1	19598.1	19452.0	17574.0	14915.0	13095.5	12851.1	13924.2	15714.6	18214.1	20187.8
37.5°	20689.8	21011.2	20440.1	18115.9	15611.0	13918.9	13804.7	14946.9	16532.7	18947.3	21606.2
40°	22108.2	22294.2	21399.0	18774.6	16466.3	15116.9	15225.8	16466.3	17603.2	19826.5	23115.0
42.5°	23215.9	23391.2	22384.5	19327.1	17340.2	16538.0	16992.2	18299.1	18830.4	20727.0	24241.2
45°	24063.3	24212.0	23067.2	19930.1	18519.6	18596.6	19454.6	20187.8	20060.3	21276.8	25109.8
47.5°	24722.0	24849.5	23593.1	20578.2	20286.0	21114.8	22427.0	22737.8	21335.3	21871.8	25896.1
50°	24993.0	25030.2	23757.8	21404.3	22291.5	24323.6	25691.6	25503.0	22796.2	22533.3	26732.8
52.5°	25346.3	25338.3	24228.0	22190.6	24177.5	27192.4	28557.7	28130.0	24448.4	23524.0	27673.2
55°	26273.3	26283.9	25234.7	23306.2	25784.5	29508.7	30969.6	30658.8	26191.0	25197.5	28770.2
57.5°	27399.6	27439.4	26666.4	24610.5	27319.9	31187.4	32770.6	32651.0	28547.1	27059.6	29806.2
59°	27545.7	27625.3	27343.8	25529.5	28231.0	31702.7	33386.8	33503.7	29808.8	28286.8	30366.6
60°	27280.0	27412.8	27540.3	26050.2	28764.9	31888.7	33424.0	33652.5	30757.1	29120.8	30621.6
62.5°	26121.9	26331.7	26971.9	27651.9	29431.6	31309.6	32236.7	32714.8	31931.2	31312.3	30645.5
65°	24605.2	24714.1	25638.4	27936.1	28138.0	28605.5	28892.4	29506.0	30520.7	32157.0	29548.5
67.5°	22118.9	22440.3	23571.9	26286.6	24320.9	23768.4	23696.7	23085.8	25720.8	30143.5	26844.4
70°	18272.6	18416.0	19810.6	21550.4	18354.9	17504.9	17844.9	17616.5	19938.1	25949.2	21606.2
72.5°	13818.0	14142.1	15504.7	17178.2	12489.8	11387.5	12325.2	12240.2	14976.1	20854.5	14843.3
75°	9830.9	10040.8	11778.0	13443.5	8747.1	7411.0	7748.4	8064.5	10455.1	16466.3	8771.0
77.5°	6754.9	6935.6	8239.8	8890.6	6380.4	6112.1	5591.5	5896.9	6850.6	9769.8	4773.3
80°	4074.7	4066.8	4924.7	5084.1	4444.0	5161.2	4329.7	4861.0	4141.1	4181.0	1848.8
82.5°	2645.7	2619.1	3012.2	3283.2	2473.0	2600.5	1745.2	2515.5	2698.8	1166.1	584.4
85°	1184.7	1235.2	1447.7	1909.9	1083.8	576.4	355.9	773.0	1150.2	587.0	0.0
87.5°	122.2	95.6	255.0	464.8	148.8	15.9	53.1	26.6	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°	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0
2.5°	12643.9	12489.8	12030.3	11600.0	11230.8	10779.2	10487.0	10027.5	9748.6	9663.6	9676.8
5°	12136.6	11693.0	10819.0	10120.4	9342.1	8898.5	8223.9	7575.7	7225.1	7094.9	7036.5
7.5°	11074.0	10598.6	9544.0	8447.0	7612.9	6834.6	6332.6	5761.5	5371.0	5049.6	4993.8
10°	10285.1	9660.9	8354.0	7174.6	6515.9	5931.5	5429.4	4858.3	4398.8	4032.2	3931.3
12.5°	9812.3	9113.7	7655.4	6667.3	6043.0	5442.7	4789.3	4127.9	3657.7	3261.9	3078.6
15°	9727.3	8917.1	7458.8	6303.4	5533.0	4807.9	3939.3	3224.7	2741.3	2366.7	2252.5
17.5°	10240.0	9270.4	7429.6	5923.5	4866.3	3838.3	2935.2	2342.8	1798.3	1588.5	1506.1
20°	11153.7	9894.7	7427.0	5482.6	4181.0	2956.4	2061.3	1527.4	1306.9	1206.0	1158.1
22.5°	12399.5	10744.7	7567.8	5102.7	3469.1	2180.8	1471.6	1216.6	1089.1	1006.7	988.1
25°	13921.6	12003.7	7913.1	4845.1	2924.6	1710.6	1213.9	1041.3	935.0	897.8	881.9
27.5°	15273.6	13209.7	8292.9	4579.4	2534.1	1514.1	1126.3	953.6	868.6	839.4	815.5
30°	16439.7	14304.1	8476.2	4228.8	2220.7	1386.6	1142.2	1020.0	908.4	820.8	780.9
32.5°	17411.9	15143.5	8595.7	3910.0	1955.0	1134.2	903.1	788.9	738.4	706.6	680.0
35°	18628.5	16051.9	8524.0	3729.4	1819.6	1033.3	823.4	680.0	595.0	531.3	504.7
37.5°	19903.5	16960.4	8399.2	3580.7	1758.5	958.9	783.6	645.5	552.5	486.1	451.6
40°	21223.7	17802.4	8253.1	3442.5	1702.7	911.1	759.7	616.3	523.3	451.6	414.4
42.5°	22432.3	18623.2	8194.6	3352.2	1612.4	919.1	741.1	603.0	494.1	419.7	387.8
45°	23409.8	19401.5	8274.3	3304.4	1514.1	905.8	746.4	587.0	470.2	398.4	366.6
47.5°	24453.7	20501.2	8532.0	3256.6	1418.5	842.0	786.3	584.4	459.5	385.2	350.6
50°	25667.7	21909.0	9121.7	3139.7	1301.6	773.0	836.7	581.7	446.3	369.2	334.7
52.5°	27285.3	23508.1	9730.0	2935.2	1131.6	706.6	799.5	573.8	419.7	350.6	316.1
55°	28738.3	25192.2	10245.3	2693.5	916.4	610.9	719.9	539.2	374.5	318.8	286.9
57.5°	29338.6	26143.1	10229.3	2358.8	733.1	536.6	592.4	494.1	326.7	281.6	255.0
59°	29118.2	26023.6	9886.7	2111.7	669.4	496.7	491.4	488.8	305.5	255.0	233.8
60°	28807.4	25588.0	9517.5	1989.6	629.5	470.2	451.6	483.4	286.9	239.1	217.8
62.5°	27617.4	23781.7	8292.9	1782.4	576.4	398.4	361.3	409.1	255.0	207.2	188.6
65°	25893.5	21005.9	7020.6	1723.9	560.5	329.4	300.2	292.2	217.8	175.3	159.4
67.5°	22530.6	17775.8	5687.1	1684.1	565.8	276.3	263.0	220.5	180.6	146.1	135.5
70°	18038.8	13860.5	4656.5	1638.9	571.1	225.8	220.5	175.3	146.1	122.2	111.6
72.5°	10959.8	8215.9	3665.7	1423.8	555.2	180.6	196.6	132.8	106.3	87.7	82.3
75°	6776.2	5623.4	2273.8	1107.7	366.6	132.8	138.1	82.3	71.7	55.8	55.8
77.5°	3926.0	3551.5	812.8	398.4	162.0	79.7	61.1	42.5	39.8	23.9	23.9
80°	1628.3	1304.2	281.6	135.5	87.7	37.2	13.3	2.7	0.0	0.0	0.0
82.5°	475.5	422.3	77.0	61.1	26.6	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°	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0
2.5°	9451.1	9363.4	9323.6	9459.0	9334.2	9493.6	9371.4	9424.5	9581.2	9650.3	9828.2
5°	7073.7	6983.4	6940.9	7145.4	7134.8	7235.7	7225.1	7318.1	7397.7	7219.8	7403.1
7.5°	4927.4	4866.3	4967.2	5126.6	5296.6	5240.8	5240.8	5116.0	5158.5	5131.9	5124.0
10°	3748.0	3538.2	3485.0	3479.7	3543.5	3556.8	3485.0	3312.4	3376.1	3394.7	3506.3
12.5°	2948.5	2786.4	2539.4	2427.8	2398.6	2422.5	2186.1	2034.7	2106.4	2063.9	2172.8
15°	2114.4	1981.6	1835.5	1710.6	1676.1	1628.3	1370.6	1190.0	1168.8	1176.7	1195.3
17.5°	1508.8	1418.5	1418.5	1285.6	1213.9	1070.5	940.3	860.6	852.7	860.6	873.9
20°	1113.0	1065.2	1059.9	1025.3	945.6	850.0	759.7	743.8	738.4	751.7	757.0
22.5°	958.9	908.4	865.9	863.3	788.9	709.2	666.7	645.5	648.1	653.4	666.7
25°	858.0	804.9	759.7	733.1	680.0	624.2	584.4	573.8	573.8	581.7	584.4
27.5°	786.3	719.9	680.0	642.8	595.0	547.2	512.7	504.7	499.4	504.7	518.0
30°	735.8	669.4	618.9	563.1	525.9	480.8	451.6	440.9	438.3	440.9	451.6
32.5°	629.5	589.7	549.9	499.4	454.2	425.0	393.1	374.5	374.5	379.8	390.5
35°	475.5	454.2	451.6	438.3	401.1	369.2	332.0	313.4	313.4	324.1	329.4
37.5°	419.7	379.8	374.5	369.2	353.3	310.8	276.3	260.3	257.7	265.6	276.3
40°	382.5	337.3	313.4	308.1	310.8	263.0	225.8	209.8	209.8	212.5	223.1
42.5°	353.3	300.2	257.7	252.3	263.0	220.5	183.3	167.3	167.3	167.3	180.6
45°	329.4	268.3	217.8	191.3	207.2	180.6	148.8	132.8	127.5	132.8	138.1
47.5°	313.4	244.4	191.3	154.1	154.1	143.4	119.5	100.9	95.6	98.3	106.3
50°	300.2	223.1	162.0	124.8	111.6	114.2	90.3	77.0	71.7	71.7	79.7
52.5°	278.9	201.9	140.8	106.3	85.0	77.0	66.4	55.8	53.1	55.8	61.1
55°	252.3	183.3	122.2	87.7	66.4	53.1	47.8	39.8	37.2	39.8	47.8
57.5°	223.1	154.1	98.3	69.1	45.2	34.5	31.9	26.6	21.3	23.9	29.2
59°	204.5	138.1	85.0	55.8	34.5	23.9	23.9	18.6	13.3	15.9	23.9
60°	196.6	127.5	71.7	47.8	29.2	18.6	18.6	13.3	8.0	10.6	18.6
62.5°	167.3	106.3	55.8	29.2	13.3	2.7	8.0	2.7	0.0	2.7	8.0
65°	140.8	85.0	37.2	13.3	0.0	0.0	0.0	0.0	0.0	0.0	2.7
67.5°	116.9	63.8	18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	93.0	42.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	63.8	23.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	39.8	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.9	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: P459482

CATALOG NUMBER: GALN-SA9B-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0	11685.0
2.5°	9838.9	10218.7	10452.5	10893.4	11345.0	11693.0	12128.6	12519.1	12681.1	12766.1
5°	7589.0	8117.6	8566.5	9238.6	9862.8	10622.5	11392.8	12301.2	12649.2	12739.5
7.5°	5325.8	5865.1	6335.2	7113.5	8003.4	9020.7	10173.6	11326.4	11833.7	11977.2
10°	3846.3	4422.7	4996.5	5774.8	6606.2	7708.5	8909.2	10335.6	10920.0	11031.5
12.5°	2427.8	3046.8	3979.1	4940.7	5819.9	6707.1	7963.5	9514.8	10160.3	10364.8
15°	1407.8	1870.0	2573.9	3827.7	4946.0	6120.1	7490.7	9206.7	9929.2	10139.0
17.5°	943.0	1102.4	1585.8	2544.7	4021.6	5578.2	7371.2	9459.0	10258.6	10526.9
20°	794.2	865.9	1036.0	1551.3	3097.2	5094.8	7403.1	10144.3	11193.6	11528.3
22.5°	698.6	765.0	873.9	1115.6	2162.2	4494.4	7554.5	11124.5	12479.2	12906.9
25°	616.3	682.7	778.3	924.4	1453.0	3801.1	7886.5	12558.9	14181.9	14652.1
27.5°	547.2	608.3	690.6	815.5	1118.3	3028.2	8181.4	13956.1	15735.8	16118.3
30°	483.4	533.9	613.6	709.2	929.7	2334.9	8330.1	15178.0	16867.4	17292.4
32.5°	419.7	467.5	544.5	621.6	765.0	1779.7	8226.5	16075.8	17967.1	18238.0
35°	358.6	409.1	472.8	544.5	661.4	1437.0	7708.5	17085.2	19106.6	19319.1
37.5°	308.1	350.6	417.0	472.8	597.7	1150.2	7081.7	17993.7	20384.3	20689.8
40°	260.3	302.8	369.2	419.7	549.9	905.8	6515.9	19003.1	21731.1	22108.2
42.5°	212.5	263.0	321.4	403.8	472.8	690.6	5830.5	19821.2	22743.1	23215.9
45°	170.0	225.8	289.5	401.1	411.7	525.9	5169.1	20458.7	23638.3	24063.3
47.5°	135.5	191.3	278.9	374.5	337.3	417.0	4791.9	21125.4	24382.0	24722.0
50°	108.9	159.4	292.2	329.4	281.6	353.3	4781.3	21869.2	24767.2	24993.0
52.5°	87.7	130.2	247.0	252.3	239.1	310.8	5068.2	22705.9	25160.3	25346.3
55°	74.4	108.9	162.0	185.9	215.2	281.6	5283.3	23994.2	26098.0	26273.3
57.5°	58.4	93.0	124.8	148.8	191.3	257.7	5312.6	24987.7	27285.3	27399.6
59°	50.5	79.7	111.6	132.8	175.3	241.7	5193.0	25048.8	27362.4	27545.7
60°	42.5	71.7	98.3	124.8	162.0	228.4	5062.9	24605.2	27075.5	27280.0
62.5°	31.9	55.8	71.7	100.9	132.8	196.6	4446.6	23056.5	25978.5	26121.9
65°	21.3	39.8	53.1	74.4	103.6	170.0	3623.2	21048.4	24283.7	24605.2
67.5°	13.3	29.2	42.5	55.8	85.0	143.4	2581.9	18049.4	21911.7	22118.9
70°	8.0	18.6	31.9	45.2	66.4	114.2	1532.7	14266.9	18230.1	18272.6
72.5°	5.3	13.3	21.3	31.9	53.1	103.6	743.8	9299.6	13310.6	13818.0
75°	2.7	8.0	13.3	23.9	42.5	85.0	355.9	6213.0	9684.8	9830.9
77.5°	0.0	2.7	8.0	15.9	31.9	66.4	207.2	4080.1	6603.5	6754.9
80°	0.0	0.0	5.3	13.3	23.9	42.5	124.8	2406.6	4000.4	4074.7
82.5°	0.0	0.0	2.7	10.6	15.9	31.9	63.8	1057.2	2619.1	2645.7
85°	0.0	0.0	2.7	10.6	13.3	21.3	23.9	143.4	1163.5	1184.7
87.5°	0.0	0.0	2.7	13.3	13.3	13.3	13.3	8.0	98.3	122.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)