

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: P533619

Luminaire Tested: **GALN-SA9A-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-740-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22919 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

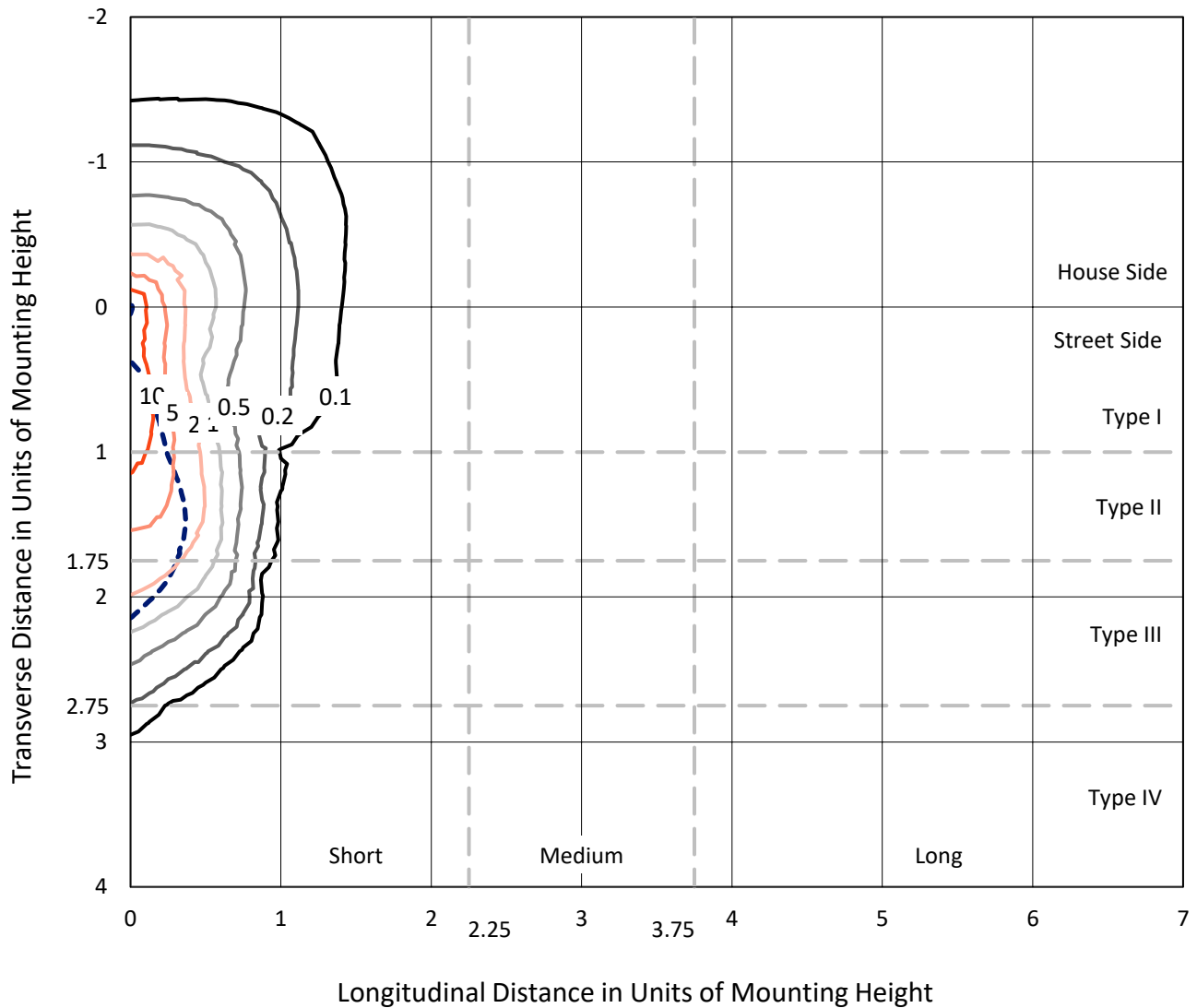
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

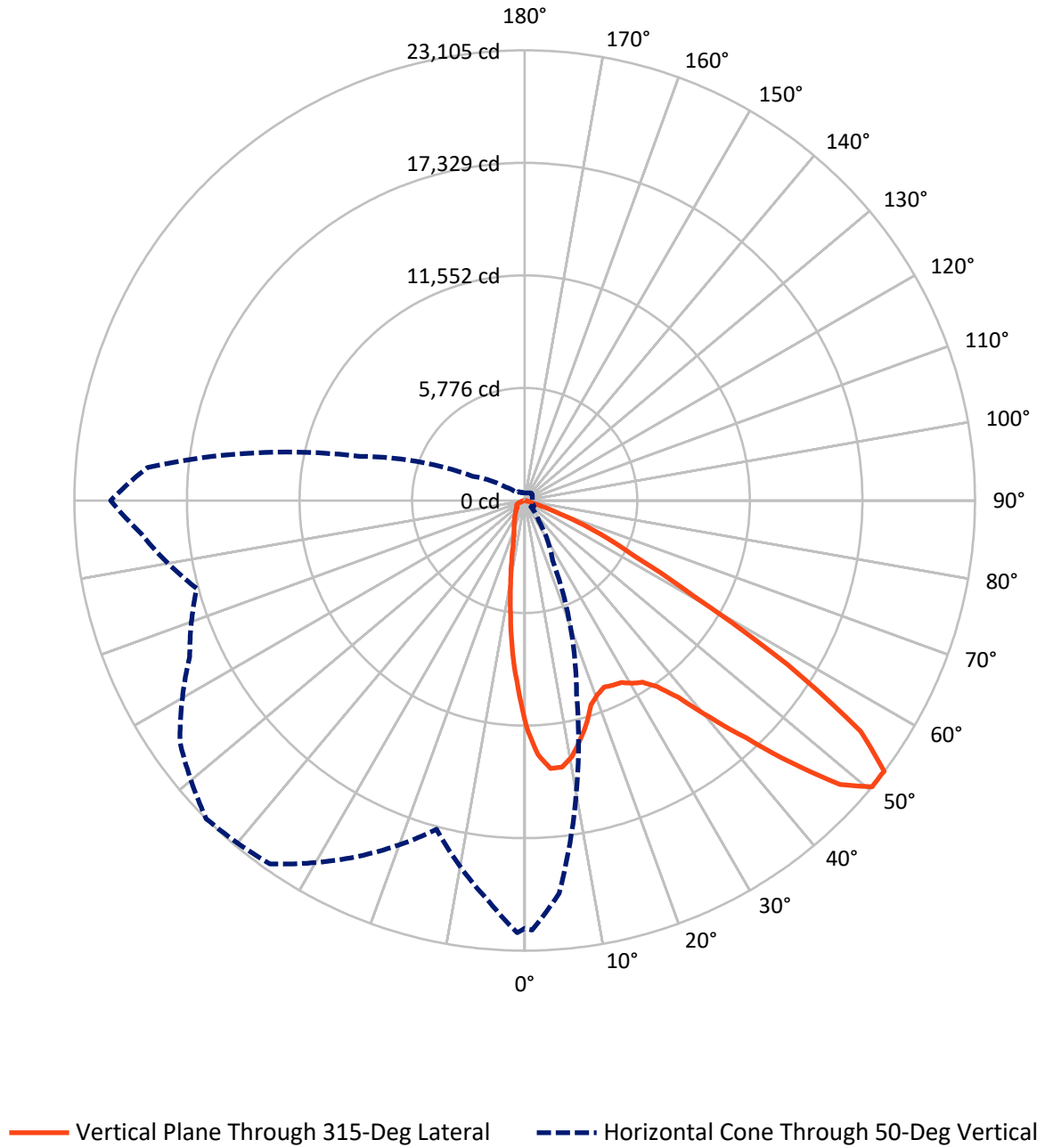
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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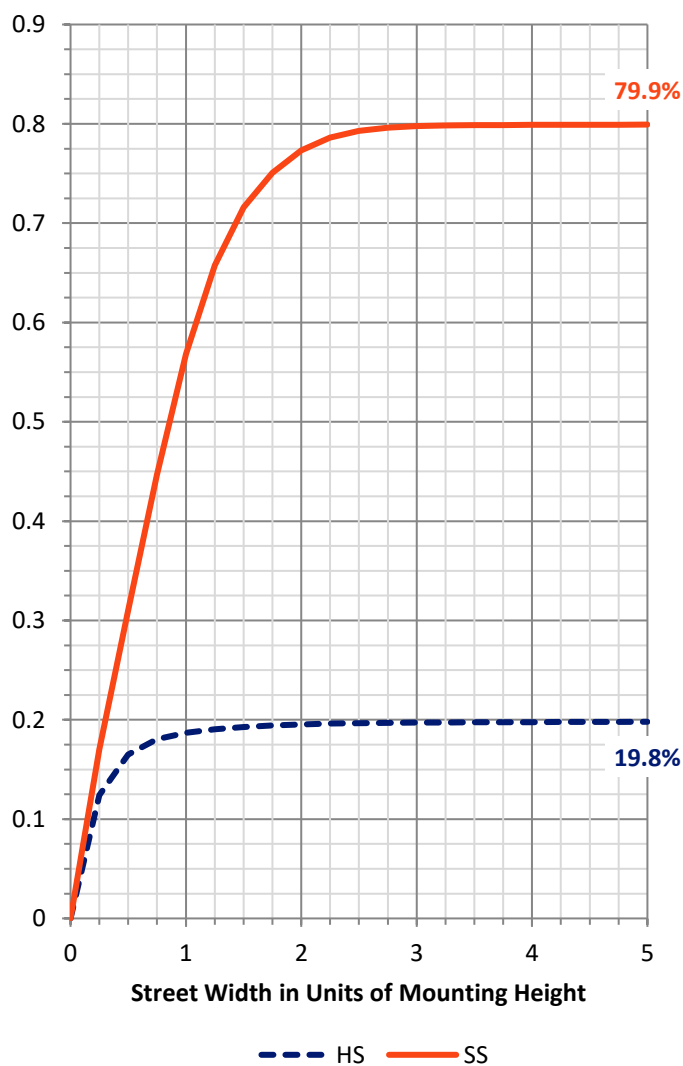
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4590.7	0.0	4590.7
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	18328.3	0.0	18328.3
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	22919.0	0.0	22919.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	847.2	3.7
10°-20°	1683.7	7.3
20°-30°	2529.5	11.0
30°-40°	3796.7	16.6
40°-50°	5336.0	23.3
50°-60°	5755.8	25.1
60°-70°	2672.4	11.7
70°-80°	251.4	1.1
80°-90°	46.3	0.2
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°	22919.0	100.0
0°-180°	22919.0	100.0

**Coefficient of Utilization**



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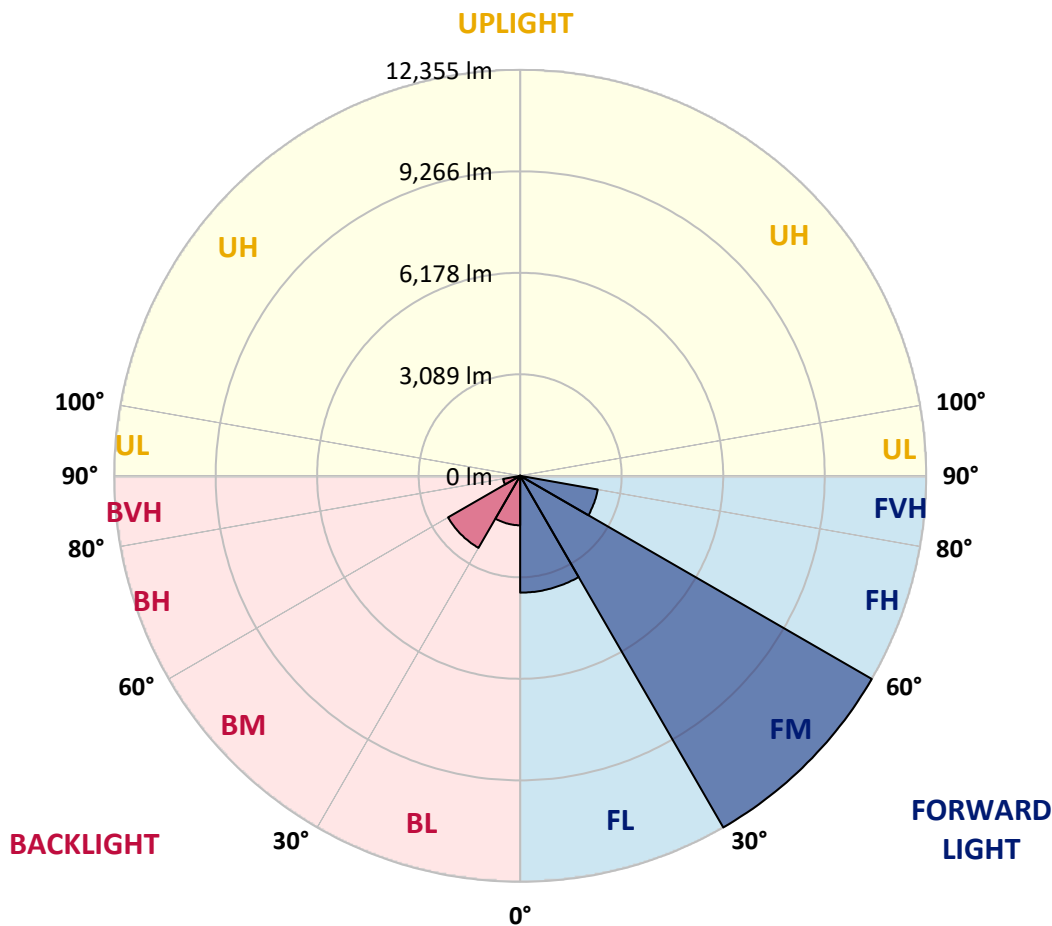
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3555.7	15.5			
FM (30°-60°)	12355.1	53.9			
FH (60°-80°)	2396.7	10.5			G2/5000
FVH (80°-90°)	20.9	0.1			G1/100
BL (0°-30°)	1504.7	6.6	B3/2500		
BM (30°-60°)	2533.4	11.1	B3/5000		
BH (60°-80°)	527.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	25.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8
2.5°	12082.1	11895.7	11659.2	11463.7	11172.6	10586.0	10426.9	10235.9	10076.8	9863.0	9562.9
5°	10986.2	10927.1	10818.0	10081.3	9549.3	8839.9	8257.8	8012.3	7689.4	7425.7	7234.7
7.5°	10149.5	9913.0	9567.5	8826.3	7975.9	7216.5	6570.8	6193.4	5765.9	5620.4	5361.2
10°	9253.7	9308.3	8799.0	7757.6	6730.0	6116.1	5715.9	5352.1	4965.6	4711.0	4342.6
12.5°	8967.2	8789.9	8398.8	7111.9	6234.3	5661.4	5174.8	4724.6	4315.4	3906.1	3551.4
15°	9153.7	8880.8	8335.1	6975.5	5852.3	5138.4	4529.1	3919.7	3542.3	3019.4	2651.1
17.5°	9822.1	9603.8	8871.7	7121.0	5656.8	4638.2	3733.3	3105.8	2528.3	2055.4	1868.9
20°	10936.2	10627.0	9708.4	7307.5	5365.8	4033.4	3028.5	2255.4	1709.8	1509.7	1405.1
22.5°	12027.5	11859.3	10699.7	7666.7	5106.6	3496.9	2273.6	1518.8	1277.8	1241.4	1173.2
25°	14105.6	13600.9	12214.0	8317.0	4906.5	2992.1	1714.3	1223.2	1082.3	1055.0	1064.1
27.5°	15342.5	14919.6	13614.5	8748.9	4683.7	2605.6	1450.6	1123.2	1027.7	968.6	945.8
30°	16529.3	16038.2	14310.3	9003.6	4206.2	2196.3	1286.9	1077.7	1055.0	968.6	941.3
32.5°	17443.3	16961.3	15315.2	9385.6	4010.7	1932.6	1059.5	841.2	782.1	773.0	854.9
35°	18843.9	18330.0	16174.6	9594.7	3860.6	1796.2	918.5	750.3	682.1	654.8	659.4
37.5°	20149.0	19798.8	16970.4	9676.6	3701.5	1755.2	823.1	673.0	613.9	595.7	591.1
40°	21240.3	20458.2	17725.3	9763.0	3633.3	1677.9	763.9	613.9	573.0	545.7	545.7
42.5°	21740.5	20944.7	18571.1	9713.0	3615.1	1555.2	763.9	563.9	532.0	504.7	500.2
45°	21631.4	21308.5	18948.5	9690.2	3615.1	1432.4	695.7	550.2	504.7	468.4	459.3
47.5°	21913.3	21490.4	19421.4	9785.7	3542.3	1346.0	586.6	577.5	477.5	432.0	422.9
50°	21963.3	22045.2	20244.4	10281.4	3383.2	1236.9	459.3	568.4	459.3	391.1	382.0
52°	22290.7	21781.4	20494.5	10545.1	3214.9	1155.0	386.5	486.6	441.1	363.8	354.7
52.5°	21840.5	22172.5	20553.7	10640.6	3233.1	1100.4	372.9	477.5	432.0	363.8	341.0
55°	21335.8	21654.1	20312.7	10845.2	2964.8	864.0	291.0	345.6	391.1	318.3	304.7
57.5°	18543.8	18866.6	17652.5	9931.2	2414.6	609.3	241.0	259.2	345.6	295.6	281.9
60°	16483.9	16251.9	14815.0	8285.1	1714.3	341.0	191.0	200.1	377.4	272.8	268.3
62.5°	15065.1	14569.5	12382.2	6398.0	1045.9	227.4	150.1	154.6	291.0	254.6	254.6
65°	11145.4	10590.6	8226.0	3869.7	513.8	159.2	113.7	122.8	181.9	218.3	218.3
67.5°	6361.6	6147.9	3974.3	1746.2	213.7	100.0	86.4	95.5	141.0	177.3	168.2
70°	2923.9	2623.8	1527.9	368.3	100.0	68.2	68.2	77.3	113.7	131.9	122.8
72.5°	854.9	809.4	372.9	59.1	40.9	40.9	45.5	59.1	86.4	100.0	90.9
75°	63.7	40.9	27.3	18.2	18.2	27.3	36.4	59.1	86.4	95.5	77.3
77.5°	4.5	9.1	4.5	4.5	13.6	27.3	40.9	72.8	113.7	118.2	86.4
80°	4.5	4.5	0.0	4.5	13.6	27.3	45.5	81.9	127.3	136.4	72.8
82.5°	0.0	0.0	0.0	4.5	18.2	36.4	54.6	86.4	118.2	145.5	77.3
85°	0.0	0.0	0.0	4.5	27.3	50.0	63.7	22.7	13.6	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8
2.5°	9776.6	9658.4	9612.9	9653.9	9640.2	9626.6	9876.7	9822.1	9813.0	9894.9	9876.7
5°	7339.3	7130.1	7703.1	7471.2	7712.2	7857.7	7885.0	7898.6	8066.9	7889.5	8121.4
7.5°	5229.4	5283.9	5279.4	5434.0	5711.4	5956.9	6102.4	5988.8	5979.7	5956.9	5856.9
10°	4178.9	4083.4	4065.3	4028.9	4115.3	4324.5	4501.8	4360.8	4260.8	4397.2	4356.3
12.5°	3415.0	3283.1	3210.4	3064.9	3069.4	3210.4	3210.4	3210.4	3310.4	3387.7	3446.8
15°	2619.2	2510.1	2510.1	2364.6	2332.7	2337.3	2410.1	2419.1	2578.3	2623.8	2646.5
17.5°	1832.5	1773.4	1841.6	1900.8	1864.4	1873.5	1900.8	1909.9	1932.6	1914.4	1959.9
20°	1409.7	1400.6	1418.7	1523.3	1600.6	1646.1	1614.3	1568.8	1541.5	1477.9	1477.9
22.5°	1195.9	1214.1	1246.0	1332.4	1432.4	1459.7	1423.3	1318.7	1236.9	1227.8	1232.3
25°	1064.1	1082.3	1132.3	1186.8	1241.4	1286.9	1250.5	1173.2	1127.7	1086.8	1086.8
27.5°	982.2	991.3	1018.6	1059.5	1105.0	1141.4	1127.7	1086.8	1036.8	1018.6	977.7
30°	918.5	932.2	964.0	973.1	1014.0	1032.2	1009.5	1000.4	968.6	945.8	932.2
32.5°	886.7	882.2	904.9	914.0	918.5	932.2	904.9	918.5	914.0	877.6	864.0
35°	668.4	704.8	763.9	814.0	827.6	845.8	841.2	823.1	773.0	732.1	682.1
37.5°	600.2	623.0	654.8	695.7	750.3	773.0	763.9	718.5	659.4	632.1	623.0
40°	554.8	568.4	595.7	623.0	677.5	718.5	686.6	645.7	600.2	577.5	563.9
42.5°	513.8	518.4	532.0	559.3	600.2	663.9	609.3	554.8	536.6	522.9	513.8
45°	468.4	468.4	486.6	500.2	545.7	604.8	550.2	500.2	491.1	482.0	477.5
47.5°	432.0	436.5	445.6	463.8	500.2	541.1	504.7	463.8	441.1	436.5	427.4
50°	386.5	391.1	409.3	427.4	472.9	495.7	472.9	427.4	404.7	391.1	391.1
52°	350.1	363.8	382.0	418.3	450.2	486.6	459.3	409.3	382.0	368.3	359.2
52.5°	345.6	354.7	372.9	413.8	450.2	482.0	454.7	404.7	372.9	363.8	354.7
55°	309.2	322.9	354.7	404.7	445.6	482.0	445.6	400.2	354.7	332.0	322.9
57.5°	295.6	304.7	345.6	409.3	441.1	482.0	445.6	400.2	354.7	313.8	304.7
60°	281.9	300.1	345.6	395.6	436.5	486.6	450.2	395.6	345.6	295.6	295.6
62.5°	268.3	281.9	341.0	386.5	418.3	468.4	432.0	386.5	332.0	281.9	277.4
65°	231.9	254.6	300.1	322.9	359.2	404.7	368.3	336.5	291.0	250.1	245.6
67.5°	177.3	186.4	222.8	250.1	272.8	313.8	295.6	254.6	222.8	191.0	191.0
70°	122.8	131.9	159.2	172.8	195.5	218.3	204.6	172.8	150.1	131.9	127.3
72.5°	86.4	90.9	100.0	109.1	118.2	127.3	122.8	100.0	86.4	81.9	77.3
75°	68.2	77.3	81.9	77.3	72.8	68.2	68.2	59.1	50.0	45.5	45.5
77.5°	68.2	72.8	68.2	59.1	50.0	45.5	40.9	36.4	27.3	22.7	27.3
80°	59.1	59.1	59.1	50.0	45.5	40.9	36.4	31.8	27.3	22.7	22.7
82.5°	63.7	63.7	59.1	50.0	50.0	40.9	40.9	36.4	31.8	22.7	22.7
85°	0.0	0.0	0.0	9.1	22.7	40.9	40.9	36.4	31.8	27.3	27.3
87.5°	0.0	0.0	0.0	0.0	4.5	9.1	18.2	22.7	27.3	27.3	27.3
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°	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8
2.5°	10040.4	10213.2	10540.6	10868.0	11068.1	11304.5	11732.0	11959.3	12254.9	12400.4	12686.9
5°	8089.6	8498.8	8644.4	9017.2	9417.4	9817.6	10454.2	11154.5	11736.5	12136.7	12655.1
7.5°	5902.4	5997.8	6561.7	6811.8	7466.6	8194.2	9062.7	9944.9	10681.5	11336.3	11732.0
10°	4424.5	4774.6	5129.3	5606.8	6134.3	6884.6	7716.7	8689.8	9644.8	10299.6	10799.8
12.5°	3556.0	3833.3	4306.3	4820.1	5470.4	5966.0	6802.7	7766.7	9003.6	9644.8	10304.1
15°	2692.0	3046.7	3583.2	4115.3	4801.9	5324.9	6170.6	7384.8	8976.3	9858.5	10426.9
17.5°	1996.3	2237.3	2719.3	3315.0	4015.2	4751.9	5893.3	7343.8	9281.0	10331.4	10918.0
20°	1527.9	1609.7	1914.4	2446.4	3205.8	4169.8	5443.1	7521.2	10181.3	11481.9	12077.5
22.5°	1236.9	1273.2	1391.5	1759.8	2496.5	3660.6	5229.4	7644.0	11195.4	12859.7	13655.5
25°	1077.7	1068.6	1145.9	1305.1	1950.8	3183.1	4956.5	8107.8	12436.8	14478.5	15192.4
27.5°	982.2	982.2	1018.6	1132.3	1618.8	2873.9	4783.7	8439.7	13687.3	15901.8	16288.3
30°	932.2	941.3	1045.9	1082.3	1346.0	2505.5	4497.2	8776.2	14883.2	16811.3	17343.3
32.5°	864.0	827.6	804.9	895.8	1132.3	2173.6	4210.8	8917.2	15851.8	17925.3	18380.1
35°	663.9	645.7	673.0	741.2	973.1	1891.7	3892.5	9076.4	16965.9	19216.8	19307.7
37.5°	600.2	595.7	613.9	673.0	818.5	1646.1	3665.1	9035.4	17816.2	20285.4	20039.8
40°	554.8	554.8	568.4	618.4	732.1	1473.3	3428.6	8999.0	18639.3	21485.9	20767.4
42.5°	518.4	518.4	541.1	573.0	695.7	1359.6	3251.3	8949.0	19330.4	22222.5	21194.8
45°	468.4	482.0	518.4	550.2	704.8	1282.3	3119.4	8758.0	19566.9	22213.4	20990.2
47.5°	432.0	450.2	486.6	532.0	636.6	1259.6	3028.5	8589.8	19485.1	21667.7	20349.0
50°	391.1	413.8	463.8	541.1	541.1	1214.1	2933.0	8739.9	19425.9	21244.8	19735.2
52°	363.8	382.0	445.6	527.5	472.9	1118.6	2873.9	9030.9	19666.9	21190.3	19462.3
52.5°	359.2	372.9	432.0	518.4	450.2	1100.4	2832.9	9099.1	19744.2	21053.9	19648.8
55°	318.3	336.5	395.6	404.7	368.3	904.9	2701.1	9253.7	19362.3	20785.6	19471.4
57.5°	300.1	309.2	350.1	332.0	318.3	682.1	2323.7	9012.7	17197.8	18461.9	18116.3
60°	277.4	286.5	327.4	259.2	268.3	477.5	1746.2	7825.9	13810.1	15383.4	16006.4
62.5°	268.3	263.7	309.2	209.2	227.4	345.6	1232.3	6361.6	10640.6	12664.1	13741.8
65°	236.5	231.9	222.8	177.3	195.5	268.3	736.7	4151.7	7498.4	9581.1	10172.2
67.5°	181.9	191.0	163.7	141.0	163.7	209.2	409.3	1859.8	3933.4	5747.7	6225.2
70°	127.3	136.4	131.9	122.8	145.5	172.8	236.5	636.6	1627.9	3019.4	3328.6
72.5°	77.3	95.5	100.0	104.6	127.3	150.1	168.2	204.6	432.0	1068.6	1327.8
75°	45.5	63.7	77.3	90.9	104.6	127.3	141.0	145.5	150.1	200.1	322.9
77.5°	31.8	45.5	68.2	86.4	104.6	127.3	150.1	159.2	150.1	141.0	150.1
80°	27.3	45.5	63.7	81.9	109.1	131.9	150.1	150.1	145.5	127.3	136.4
82.5°	27.3	45.5	68.2	86.4	104.6	127.3	145.5	150.1	136.4	127.3	131.9
85°	31.8	50.0	72.8	90.9	113.7	104.6	95.5	77.3	72.8	59.1	63.7
87.5°	31.8	45.5	45.5	50.0	54.6	54.6	54.6	50.0	40.9	36.4	36.4
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: P533619

CATALOG NUMBER: GALN-SA9A-740-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8	11622.8
2.5°	12700.5	13064.3	13050.7	13059.8	13005.2	12636.9	12459.5	12009.3	12136.7	12082.1
5°	13187.1	13546.3	13855.5	13819.2	13400.8	12900.6	12159.4	11459.1	11268.1	10986.2
7.5°	12700.5	13564.5	13851.0	13810.1	13191.6	12550.5	11368.2	10667.9	10335.9	10149.5
10°	11927.5	12927.9	13282.6	13355.3	12937.0	11963.9	10877.1	9753.9	9576.6	9253.7
12.5°	11486.4	12214.0	12432.2	12627.8	12482.3	11754.7	10504.2	9426.5	9180.9	8967.2
15°	11127.2	11559.2	11650.1	11872.9	11959.3	11568.3	10699.7	9781.2	9176.4	9153.7
17.5°	11459.1	11281.8	10949.8	11018.0	11290.9	11572.8	11204.5	10481.5	9894.9	9822.1
20°	12009.3	11227.2	10476.9	10645.2	10872.5	11736.5	11968.4	11459.1	11122.6	10936.2
22.5°	12641.4	11322.7	10326.9	10408.7	10840.7	12104.8	13205.3	12923.3	12295.8	12027.5
25°	13810.1	11586.4	10445.1	10499.6	11090.8	12618.7	14323.9	14533.1	14160.2	14105.6
27.5°	14951.4	12268.5	10704.3	10581.5	11218.1	13118.9	15001.4	16124.6	15469.8	15342.5
30°	15533.5	12823.3	11090.8	10881.6	11745.6	13423.5	15410.7	17161.4	16588.4	16529.3
32.5°	16424.7	13328.0	11390.9	11122.6	12041.2	13801.0	16174.6	18293.7	17738.9	17443.3
35°	16797.6	13878.3	12050.3	11736.5	12887.0	14328.4	16565.7	19303.2	19130.4	18843.9
37.5°	17516.1	14469.4	12827.8	12809.7	13910.1	15015.1	17270.5	20676.4	20644.6	20149.0
40°	17575.2	15115.1	14055.6	14628.6	15492.5	16211.0	17889.0	21058.4	21576.8	21240.3
42.5°	17666.1	16247.4	16179.2	16652.1	17393.3	17238.7	17911.7	21149.4	21940.6	21740.5
45°	17707.1	17379.7	18339.1	19212.2	19521.4	18584.7	17698.0	20976.6	22131.6	21631.4
47.5°	17379.7	18352.8	20085.3	21772.3	21863.3	19412.3	17607.0	20799.2	22245.2	21913.3
50°	17425.1	18962.1	21595.0	23104.7	22772.7	20144.4	17466.1	20690.1	22186.1	21963.3
52°	17316.0	18975.8	21808.7	23077.4	22845.5	19739.7	17225.1	20271.7	22131.6	22290.7
52.5°	17438.8	18893.9	21585.9	23095.6	22795.5	19939.8	17193.2	20503.6	22163.4	21840.5
55°	17015.9	17920.8	20280.8	20922.0	20876.5	18098.1	16215.6	19735.2	21331.2	21335.8
57.5°	15378.9	15533.5	15906.4	15892.7	15683.5	14228.4	13869.2	18148.2	19016.7	18543.8
60°	13550.9	11372.7	10367.8	9958.5	9726.6	9490.2	12268.5	16602.1	16683.9	16483.9
62.5°	11709.2	7885.0	6548.1	6434.4	6489.0	7352.9	11859.3	15988.2	15497.1	15065.1
65°	9449.2	5747.7	4756.4	4606.4	5138.4	6070.6	9599.3	12259.4	11504.6	11145.4
67.5°	5934.2	4192.6	3214.9	2933.0	3574.2	4178.9	6307.1	7703.1	6857.3	6361.6
70°	3519.6	2341.8	1455.1	1305.1	1468.8	2228.2	3533.2	3842.4	3178.5	2923.9
72.5°	1386.9	859.4	404.7	345.6	359.2	782.1	1300.5	1268.7	959.5	854.9
75°	372.9	259.2	141.0	113.7	95.5	145.5	209.2	136.4	50.0	63.7
77.5°	172.8	154.6	122.8	95.5	72.8	54.6	27.3	9.1	9.1	4.5
80°	150.1	131.9	113.7	95.5	72.8	45.5	22.7	4.5	4.5	4.5
82.5°	141.0	122.8	104.6	86.4	68.2	45.5	22.7	4.5	0.0	0.0
85°	59.1	77.3	86.4	81.9	72.8	45.5	22.7	4.5	0.0	0.0
87.5°	31.8	27.3	22.7	18.2	13.6	9.1	9.1	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

(END OF REPORT)