

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: P531721

Luminaire Tested: **GALN-SA7A-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531721
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-SA7A-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 16404 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

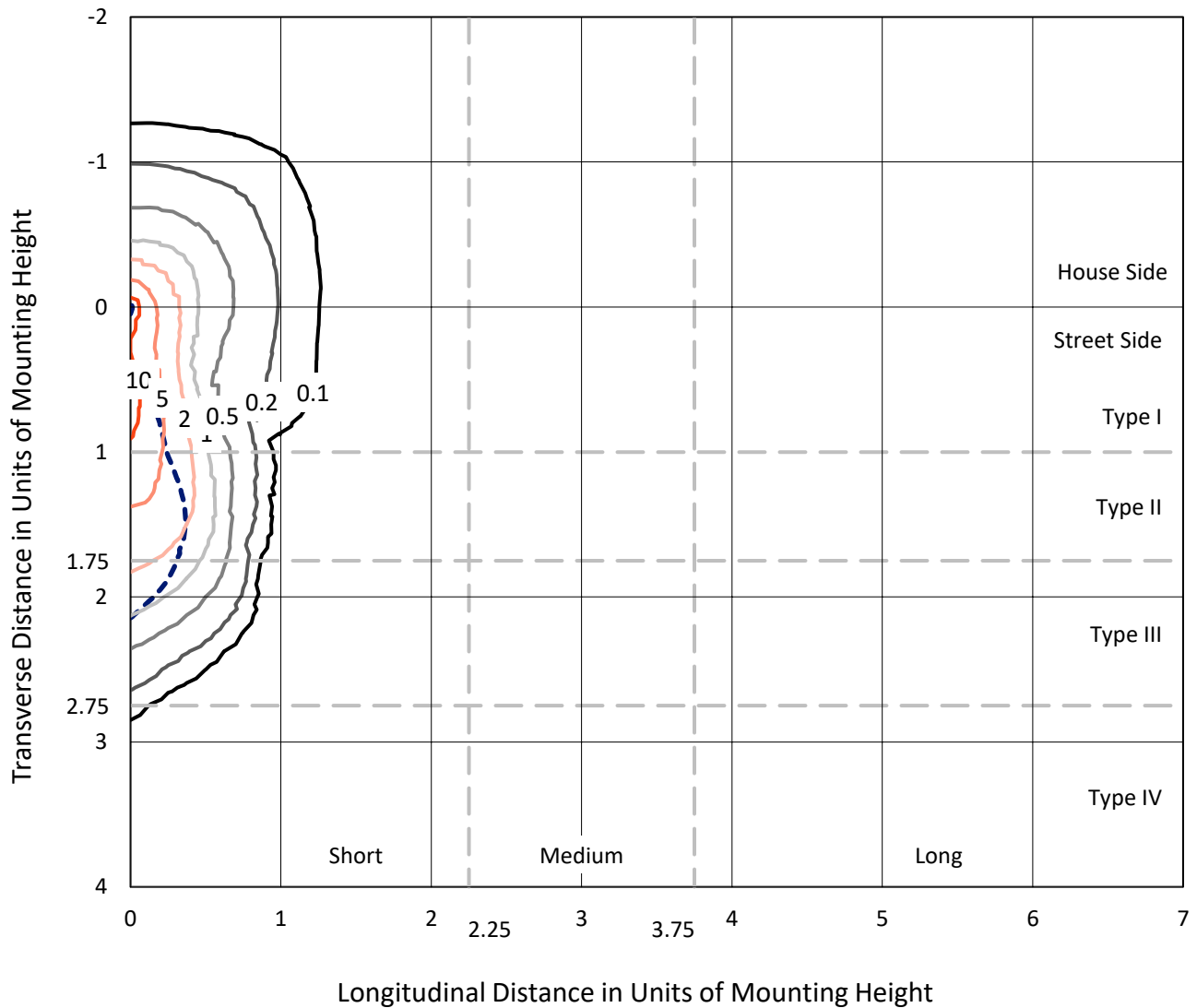
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

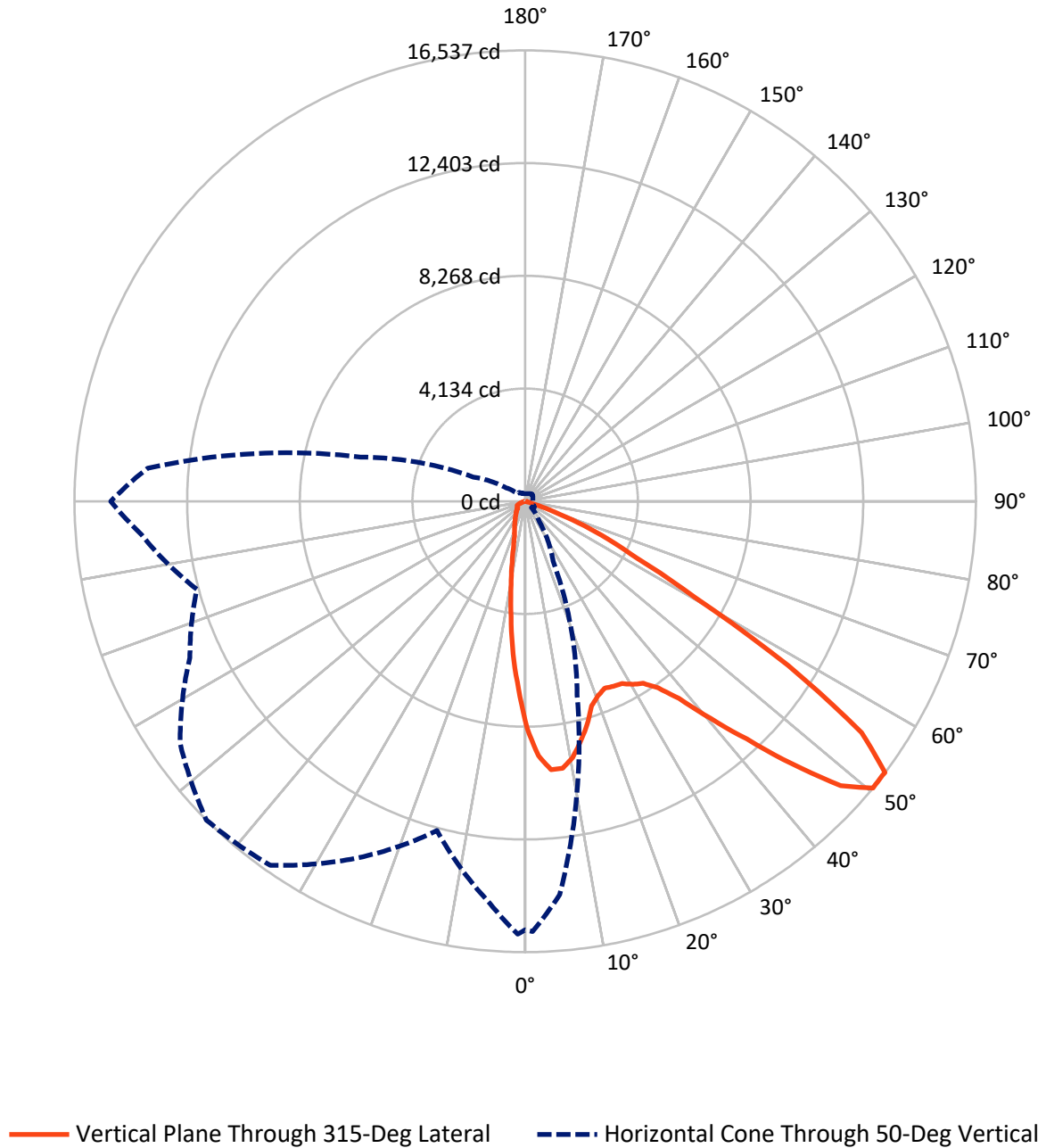
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3285.7	0.0	3285.7
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	13118.3	0.0	13118.3
	% Fixture	80.0	0.0	80.0
Total	Lumens	16404.0	0.0	16404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.4	3.7
10°-20°	1205.1	7.3
20°-30°	1810.4	11.0
30°-40°	2717.4	16.6
40°-50°	3819.2	23.3
50°-60°	4119.6	25.1
60°-70°	1912.7	11.7
70°-80°	180.0	1.1
80°-90°	33.2	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°	16404.0	100.0
0°-180°	16404.0	100.0

Coefficient of Utilization



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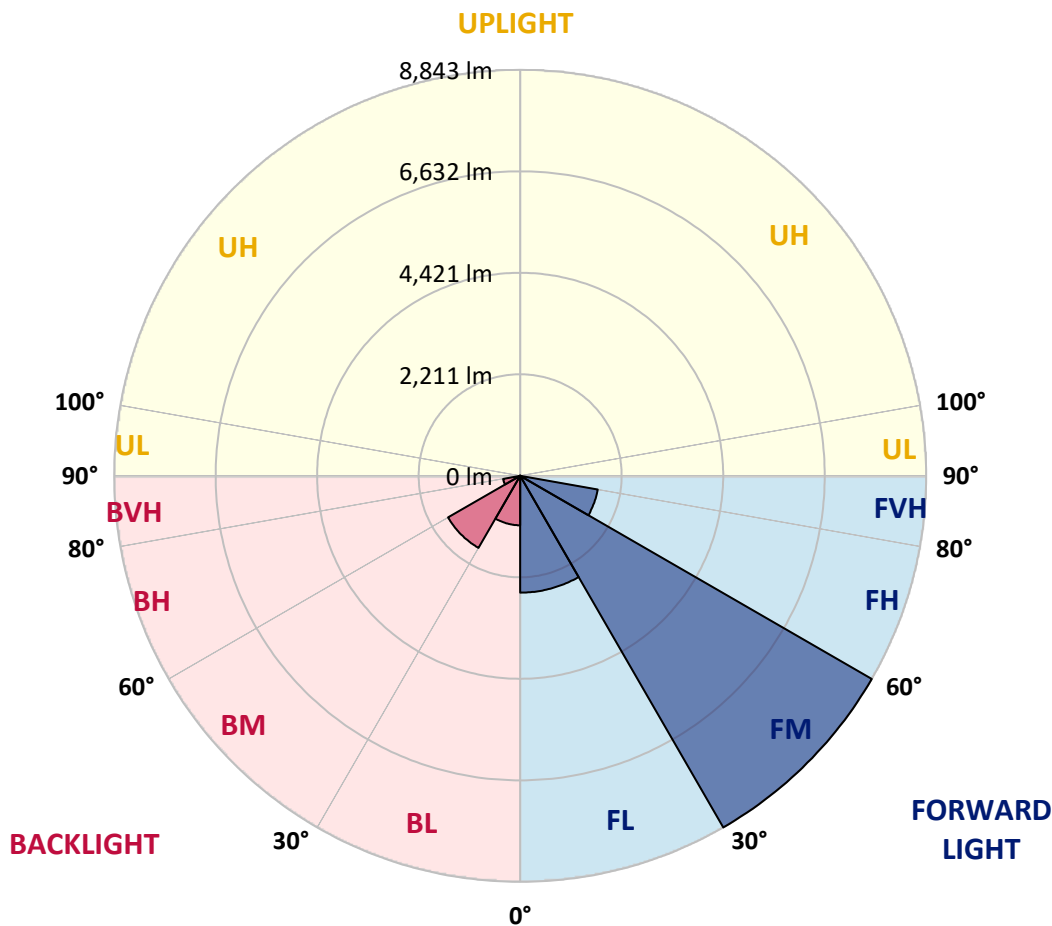
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2544.9	15.5			
FM (30°-60°)	8843.0	53.9			
FH (60°-80°)	1715.4	10.5			G1/1800
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	1077.0	6.6	B3/2500		
BM (30°-60°)	1813.2	11.1	B2/2500		
BH (60°-80°)	377.3	2.3	B1/500		G1/500
BVH (80°-90°)	18.2	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9
2.5°	8647.6	8514.2	8344.9	8205.0	7996.7	7576.8	7462.9	7326.2	7212.3	7059.3	6844.5
5°	7863.2	7820.9	7742.8	7215.6	6834.8	6327.0	5910.5	5734.7	5503.6	5314.9	5178.2
7.5°	7264.4	7095.1	6847.8	6317.3	5708.7	5165.1	4703.0	4432.8	4126.9	4022.8	3837.2
10°	6623.2	6662.3	6297.8	5552.4	4816.9	4377.5	4091.1	3830.7	3554.1	3371.8	3108.2
12.5°	6418.2	6291.2	6011.3	5090.3	4462.1	4052.0	3703.8	3381.6	3088.7	2795.7	2541.9
15°	6551.6	6356.3	5965.8	4992.6	4188.7	3677.8	3241.6	2805.5	2535.4	2161.1	1897.5
17.5°	7030.1	6873.8	6349.8	5096.8	4048.8	3319.7	2672.1	2222.9	1809.6	1471.1	1337.7
20°	7827.4	7606.1	6948.7	5230.2	3840.5	2886.9	2167.6	1614.3	1223.7	1080.5	1005.7
22.5°	8608.6	8488.1	7658.2	5487.3	3655.0	2502.8	1627.3	1087.1	914.6	888.5	839.7
25°	10095.9	9734.7	8742.0	5952.8	3511.8	2141.6	1227.0	875.5	774.6	755.1	761.6
27.5°	10981.2	10678.5	9744.4	6262.0	3352.3	1864.9	1038.2	803.9	735.6	693.2	677.0
30°	11830.7	11479.2	10242.4	6444.2	3010.6	1572.0	921.1	771.4	755.1	693.2	673.7
32.5°	12484.9	12139.9	10961.7	6717.6	2870.6	1383.2	758.3	602.1	559.8	553.3	611.9
35°	13487.3	13119.5	11576.8	6867.3	2763.2	1285.6	657.4	537.0	488.2	468.7	471.9
37.5°	14421.4	14170.8	12146.4	6925.9	2649.3	1256.3	589.1	481.7	439.4	426.4	423.1
40°	15202.5	14642.7	12686.6	6987.7	2600.5	1201.0	546.8	439.4	410.1	390.6	390.6
42.5°	15560.5	14990.9	13292.0	6951.9	2587.4	1113.1	546.8	403.6	380.8	361.3	358.0
45°	15482.4	15251.3	13562.1	6935.7	2587.4	1025.2	498.0	393.8	361.3	335.2	328.7
47.5°	15684.2	15381.5	13900.6	7004.0	2535.4	963.4	419.9	413.3	341.7	309.2	302.7
50°	15720.0	15778.6	14489.7	7358.8	2421.5	885.3	328.7	406.8	328.7	279.9	273.4
52°	15954.3	15589.8	14668.7	7547.5	2301.0	826.7	276.6	348.2	315.7	260.4	253.9
52.5°	15632.1	15869.7	14711.0	7615.9	2314.1	787.6	266.9	341.7	309.2	260.4	244.1
55°	15270.8	15498.7	14538.5	7762.3	2122.0	618.4	208.3	247.4	279.9	227.8	218.1
57.5°	13272.5	13503.6	12634.6	7108.2	1728.2	436.1	172.5	185.5	247.4	211.6	201.8
60°	11798.1	11632.1	10603.7	5930.0	1227.0	244.1	136.7	143.2	270.1	195.3	192.0
62.5°	10782.7	10427.9	8862.4	4579.3	748.6	162.7	107.4	110.7	208.3	182.3	182.3
65°	7977.2	7580.1	5887.7	2769.7	367.8	113.9	81.4	87.9	130.2	156.2	156.2
67.5°	4553.3	4400.3	2844.6	1249.8	153.0	71.6	61.8	68.3	100.9	126.9	120.4
70°	2092.7	1877.9	1093.6	263.6	71.6	48.8	48.8	55.3	81.4	94.4	87.9
72.5°	611.9	579.3	266.9	42.3	29.3	29.3	32.5	42.3	61.8	71.6	65.1
75°	45.6	29.3	19.5	13.0	13.0	19.5	26.0	42.3	61.8	68.3	55.3
77.5°	3.3	6.5	3.3	3.3	9.8	19.5	29.3	52.1	81.4	84.6	61.8
80°	3.3	3.3	0.0	3.3	9.8	19.5	32.5	58.6	91.1	97.6	52.1
82.5°	0.0	0.0	0.0	3.3	13.0	26.0	39.1	61.8	84.6	104.1	55.3
85°	0.0	0.0	0.0	3.3	19.5	35.8	45.6	16.3	9.8	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°	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9
2.5°	6997.5	6912.9	6880.3	6909.6	6899.9	6890.1	7069.1	7030.1	7023.5	7082.1	7069.1
5°	5253.0	5103.3	5513.4	5347.4	5519.9	5624.0	5643.6	5653.3	5773.8	5646.8	5812.8
7.5°	3742.9	3781.9	3778.7	3889.3	4087.8	4263.6	4367.7	4286.4	4279.9	4263.6	4192.0
10°	2991.0	2922.7	2909.7	2883.6	2945.5	3095.2	3222.1	3121.2	3049.6	3147.3	3118.0
12.5°	2444.2	2349.9	2297.8	2193.6	2196.9	2297.8	2297.8	2297.8	2369.4	2424.7	2467.0
15°	1874.7	1796.6	1796.6	1692.4	1669.6	1672.9	1725.0	1731.5	1845.4	1877.9	1894.2
17.5°	1311.6	1269.3	1318.1	1360.4	1334.4	1340.9	1360.4	1367.0	1383.2	1370.2	1402.8
20°	1008.9	1002.4	1015.5	1090.3	1145.6	1178.2	1155.4	1122.9	1103.3	1057.8	1057.8
22.5°	856.0	869.0	891.8	953.6	1025.2	1044.7	1018.7	943.8	885.3	878.8	882.0
25°	761.6	774.6	810.4	849.5	888.5	921.1	895.0	839.7	807.2	777.9	777.9
27.5°	703.0	709.5	729.0	758.3	790.9	816.9	807.2	777.9	742.1	729.0	699.8
30°	657.4	667.2	690.0	696.5	725.8	738.8	722.5	716.0	693.2	677.0	667.2
32.5°	634.7	631.4	647.7	654.2	657.4	667.2	647.7	657.4	654.2	628.1	618.4
35°	478.4	504.5	546.8	582.6	592.3	605.4	602.1	589.1	553.3	524.0	488.2
37.5°	429.6	445.9	468.7	498.0	537.0	553.3	546.8	514.2	471.9	452.4	445.9
40°	397.1	406.8	426.4	445.9	484.9	514.2	491.5	462.2	429.6	413.3	403.6
42.5°	367.8	371.0	380.8	400.3	429.6	475.2	436.1	397.1	384.0	374.3	367.8
45°	335.2	335.2	348.2	358.0	390.6	432.9	393.8	358.0	351.5	345.0	341.7
47.5°	309.2	312.4	319.0	332.0	358.0	387.3	361.3	332.0	315.7	312.4	305.9
50°	276.6	279.9	292.9	305.9	338.5	354.8	338.5	305.9	289.7	279.9	279.9
52°	250.6	260.4	273.4	299.4	322.2	348.2	328.7	292.9	273.4	263.6	257.1
52.5°	247.4	253.9	266.9	296.2	322.2	345.0	325.5	289.7	266.9	260.4	253.9
55°	221.3	231.1	253.9	289.7	319.0	345.0	319.0	286.4	253.9	237.6	231.1
57.5°	211.6	218.1	247.4	292.9	315.7	345.0	319.0	286.4	253.9	224.6	218.1
60°	201.8	214.8	247.4	283.2	312.4	348.2	322.2	283.2	247.4	211.6	211.6
62.5°	192.0	201.8	244.1	276.6	299.4	335.2	309.2	276.6	237.6	201.8	198.5
65°	166.0	182.3	214.8	231.1	257.1	289.7	263.6	240.8	208.3	179.0	175.8
67.5°	126.9	133.4	159.5	179.0	195.3	224.6	211.6	182.3	159.5	136.7	136.7
70°	87.9	94.4	113.9	123.7	140.0	156.2	146.5	123.7	107.4	94.4	91.1
72.5°	61.8	65.1	71.6	78.1	84.6	91.1	87.9	71.6	61.8	58.6	55.3
75°	48.8	55.3	58.6	55.3	52.1	48.8	48.8	42.3	35.8	32.5	32.5
77.5°	48.8	52.1	48.8	42.3	35.8	32.5	29.3	26.0	19.5	16.3	19.5
80°	42.3	42.3	42.3	35.8	32.5	29.3	26.0	22.8	19.5	16.3	16.3
82.5°	45.6	45.6	42.3	35.8	35.8	29.3	29.3	26.0	22.8	16.3	16.3
85°	0.0	0.0	0.0	6.5	16.3	29.3	29.3	26.0	22.8	19.5	19.5
87.5°	0.0	0.0	0.0	0.0	3.3	6.5	13.0	16.3	19.5	19.5	19.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9
2.5°	7186.3	7310.0	7544.3	7778.6	7921.8	8091.1	8397.0	8559.7	8771.3	8875.4	9080.5
5°	5790.0	6082.9	6187.1	6454.0	6740.4	7026.8	7482.4	7983.7	8400.3	8686.7	9057.7
7.5°	4224.5	4292.9	4696.5	4875.5	5344.1	5864.9	6486.5	7117.9	7645.2	8113.9	8397.0
10°	3166.8	3417.4	3671.2	4013.0	4390.5	4927.5	5523.1	6219.6	6903.1	7371.8	7729.8
12.5°	2545.1	2743.7	3082.2	3449.9	3915.3	4270.1	4869.0	5558.9	6444.2	6903.1	7375.0
15°	1926.8	2180.6	2564.7	2945.5	3436.9	3811.2	4416.6	5285.6	6424.7	7056.1	7462.9
17.5°	1428.8	1601.3	1946.3	2372.6	2873.9	3401.1	4218.0	5256.3	6642.7	7394.6	7814.4
20°	1093.6	1152.1	1370.2	1751.0	2294.5	2984.5	3895.8	5383.2	7287.2	8218.0	8644.4
22.5°	885.3	911.3	995.9	1259.6	1786.8	2620.0	3742.9	5471.1	8013.0	9204.2	9773.7
25°	771.4	764.8	820.2	934.1	1396.2	2278.3	3547.6	5803.0	8901.5	10362.8	10873.8
27.5°	703.0	703.0	729.0	810.4	1158.7	2056.9	3423.9	6040.6	9796.5	11381.5	11658.2
30°	667.2	673.7	748.6	774.6	963.4	1793.3	3218.9	6281.5	10652.5	12032.5	12413.3
32.5°	618.4	592.3	576.1	641.2	810.4	1555.7	3013.8	6382.4	11345.7	12829.8	13155.3
35°	475.2	462.2	481.7	530.5	696.5	1353.9	2786.0	6496.3	12143.1	13754.2	13819.3
37.5°	429.6	426.4	439.4	481.7	585.8	1178.2	2623.3	6467.0	12751.7	14519.0	14343.3
40°	397.1	397.1	406.8	442.6	524.0	1054.5	2454.0	6441.0	13340.8	15378.2	14864.0
42.5°	371.0	371.0	387.3	410.1	498.0	973.1	2327.1	6405.2	13835.5	15905.5	15169.9
45°	335.2	345.0	371.0	393.8	504.5	917.8	2232.7	6268.5	14004.8	15899.0	15023.5
47.5°	309.2	322.2	348.2	380.8	455.7	901.5	2167.6	6148.0	13946.2	15508.4	14564.6
50°	279.9	296.2	332.0	387.3	387.3	869.0	2099.3	6255.4	13903.9	15205.7	14125.2
52°	260.4	273.4	319.0	377.5	338.5	800.6	2056.9	6463.7	14076.4	15166.7	13929.9
52.5°	257.1	266.9	309.2	371.0	322.2	787.6	2027.6	6512.6	14131.7	15069.0	14063.4
55°	227.8	240.8	283.2	289.7	263.6	647.7	1933.3	6623.2	13858.3	14877.0	13936.4
57.5°	214.8	221.3	250.6	237.6	227.8	488.2	1663.1	6450.7	12309.1	13213.9	12966.5
60°	198.5	205.0	234.3	185.5	192.0	341.7	1249.8	5601.3	9884.4	11010.5	11456.4
62.5°	192.0	188.8	221.3	149.7	162.7	247.4	882.0	4553.3	7615.9	9064.2	9835.6
65°	169.2	166.0	159.5	126.9	140.0	192.0	527.3	2971.5	5366.9	6857.6	7280.7
67.5°	130.2	136.7	117.2	100.9	117.2	149.7	292.9	1331.2	2815.3	4113.9	4455.6
70°	91.1	97.6	94.4	87.9	104.1	123.7	169.2	455.7	1165.2	2161.1	2382.4
72.5°	55.3	68.3	71.6	74.9	91.1	107.4	120.4	146.5	309.2	764.8	950.4
75°	32.5	45.6	55.3	65.1	74.9	91.1	100.9	104.1	107.4	143.2	231.1
77.5°	22.8	32.5	48.8	61.8	74.9	91.1	107.4	113.9	107.4	100.9	107.4
80°	19.5	32.5	45.6	58.6	78.1	94.4	107.4	107.4	104.1	91.1	97.6
82.5°	19.5	32.5	48.8	61.8	74.9	91.1	104.1	107.4	97.6	91.1	94.4
85°	22.8	35.8	52.1	65.1	81.4	74.9	68.3	55.3	52.1	42.3	45.6
87.5°	22.8	32.5	32.5	35.8	39.1	39.1	39.1	35.8	29.3	26.0	26.0
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: P531721

CATALOG NUMBER: GALN-SA7A-735-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9	8318.9
2.5°	9090.2	9350.6	9340.9	9347.4	9308.3	9044.7	8917.8	8595.5	8686.7	8647.6
5°	9438.5	9695.6	9916.9	9890.9	9591.5	9233.5	8702.9	8201.7	8065.0	7863.2
7.5°	9090.2	9708.6	9913.7	9884.4	9441.8	8982.8	8136.6	7635.4	7397.8	7264.4
10°	8537.0	9253.0	9506.8	9558.9	9259.5	8563.0	7785.1	6981.2	6854.3	6623.2
12.5°	8221.3	8742.0	8898.2	9038.2	8934.0	8413.3	7518.3	6746.9	6571.1	6418.2
15°	7964.1	8273.3	8338.4	8497.9	8559.7	8279.8	7658.2	7000.8	6567.9	6551.6
17.5°	8201.7	8074.8	7837.2	7886.0	8081.3	8283.1	8019.5	7502.0	7082.1	7030.1
20°	8595.5	8035.7	7498.7	7619.1	7781.9	8400.3	8566.2	8201.7	7960.9	7827.4
22.5°	9047.9	8104.1	7391.3	7449.9	7759.1	8663.9	9451.5	9249.7	8800.6	8608.6
25°	9884.4	8292.9	7475.9	7515.0	7938.1	9031.7	10252.2	10401.9	10135.0	10095.9
27.5°	10701.3	8781.1	7661.5	7573.6	8029.2	9389.7	10737.1	11541.0	11072.3	10981.2
30°	11117.9	9178.1	7938.1	7788.4	8406.8	9607.7	11030.0	12283.1	11873.0	11830.7
32.5°	11755.8	9539.4	8152.9	7960.9	8618.3	9877.9	11576.8	13093.5	12696.4	12484.9
35°	12022.7	9933.2	8624.8	8400.3	9223.7	10255.4	11856.7	13816.0	13692.3	13487.3
37.5°	12536.9	10356.3	9181.4	9168.4	9956.0	10746.9	12361.2	14798.9	14776.1	14421.4
40°	12579.2	10818.5	10060.1	10470.2	11088.6	11602.8	12803.8	15072.3	15443.3	15202.5
42.5°	12644.3	11628.9	11580.1	11918.5	12449.1	12338.4	12820.1	15137.4	15703.7	15560.5
45°	12673.6	12439.3	13126.0	13750.9	13972.2	13301.8	12667.1	15013.7	15840.4	15482.4
47.5°	12439.3	13135.8	14375.8	15583.3	15648.4	13894.1	12602.0	14886.8	15921.8	15684.2
50°	12471.8	13571.9	15456.4	16536.9	16299.3	14418.1	12501.1	14808.7	15879.5	15720.0
52°	12393.7	13581.7	15609.3	16517.4	16351.4	14128.5	12328.6	14509.2	15840.4	15954.3
52.5°	12481.6	13523.1	15449.8	16530.4	16315.6	14271.7	12305.8	14675.2	15863.2	15632.1
55°	12178.9	12826.6	14515.8	14974.7	14942.1	12953.5	11606.1	14125.2	15267.6	15270.8
57.5°	11007.2	11117.9	11384.8	11375.0	11225.3	10183.8	9926.7	12989.3	13611.0	13272.5
60°	9698.9	8139.9	7420.6	7127.7	6961.7	6792.5	8781.1	11882.7	11941.3	11798.1
62.5°	8380.7	5643.6	4686.7	4605.3	4644.4	5262.8	8488.1	11443.4	11091.9	10782.7
65°	6763.2	4113.9	3404.4	3297.0	3677.8	4345.0	6870.6	8774.5	8234.3	7977.2
67.5°	4247.3	3000.8	2301.0	2099.3	2558.2	2991.0	4514.2	5513.4	4908.0	4553.3
70°	2519.1	1676.1	1041.5	934.1	1051.3	1594.8	2528.9	2750.2	2275.0	2092.7
72.5°	992.7	615.1	289.7	247.4	257.1	559.8	930.8	908.0	686.7	611.9
75°	266.9	185.5	100.9	81.4	68.3	104.1	149.7	97.6	35.8	45.6
77.5°	123.7	110.7	87.9	68.3	52.1	39.1	19.5	6.5	6.5	3.3
80°	107.4	94.4	81.4	68.3	52.1	32.5	16.3	3.3	3.3	3.3
82.5°	100.9	87.9	74.9	61.8	48.8	32.5	16.3	3.3	0.0	0.0
85°	42.3	55.3	61.8	58.6	52.1	32.5	16.3	3.3	0.0	0.0
87.5°	22.8	19.5	16.3	13.0	9.8	6.5	6.5	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

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