

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: P532891

Luminaire Tested: **GALN-SA8B-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532891
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-SA8B-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 23663 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

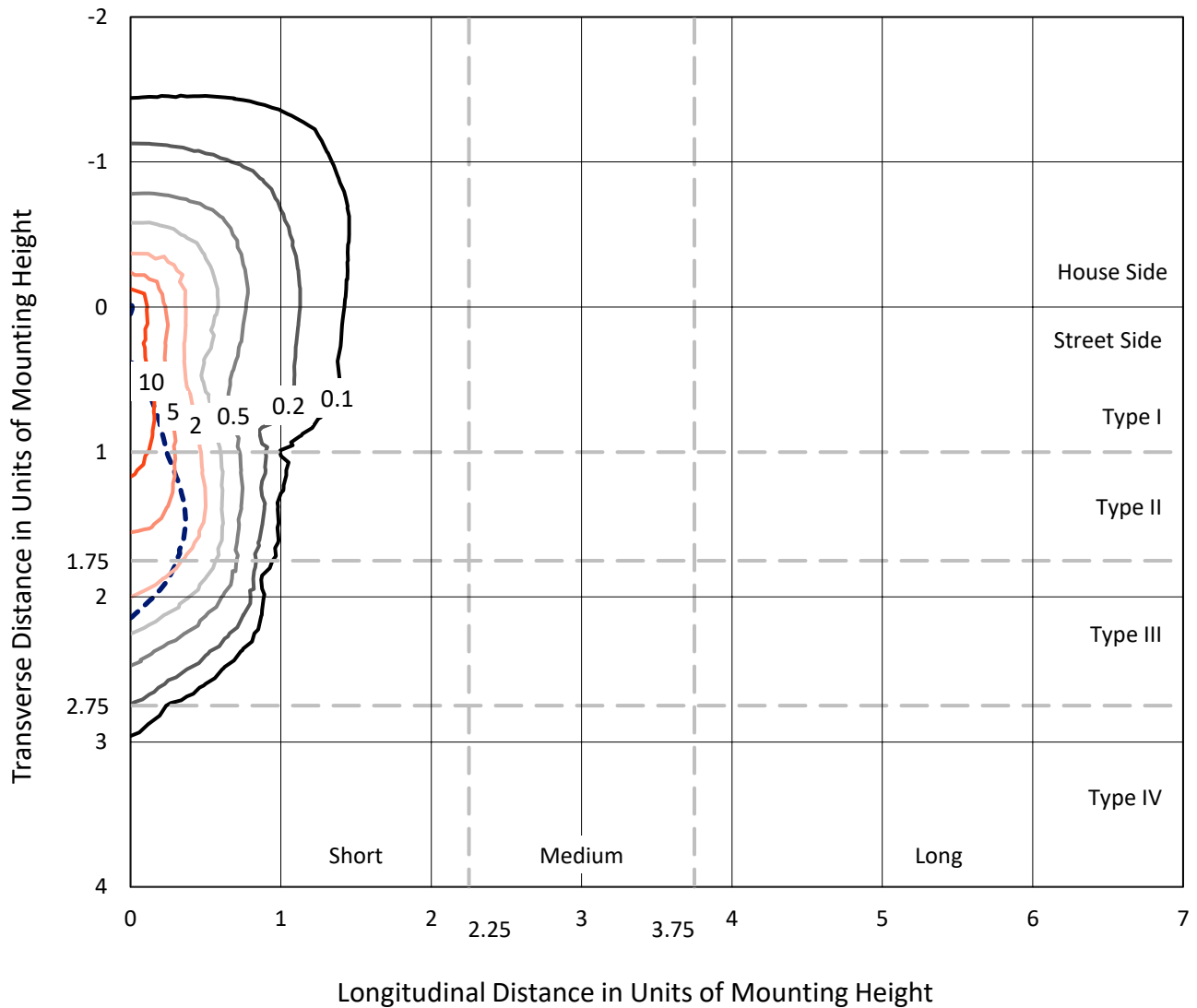
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

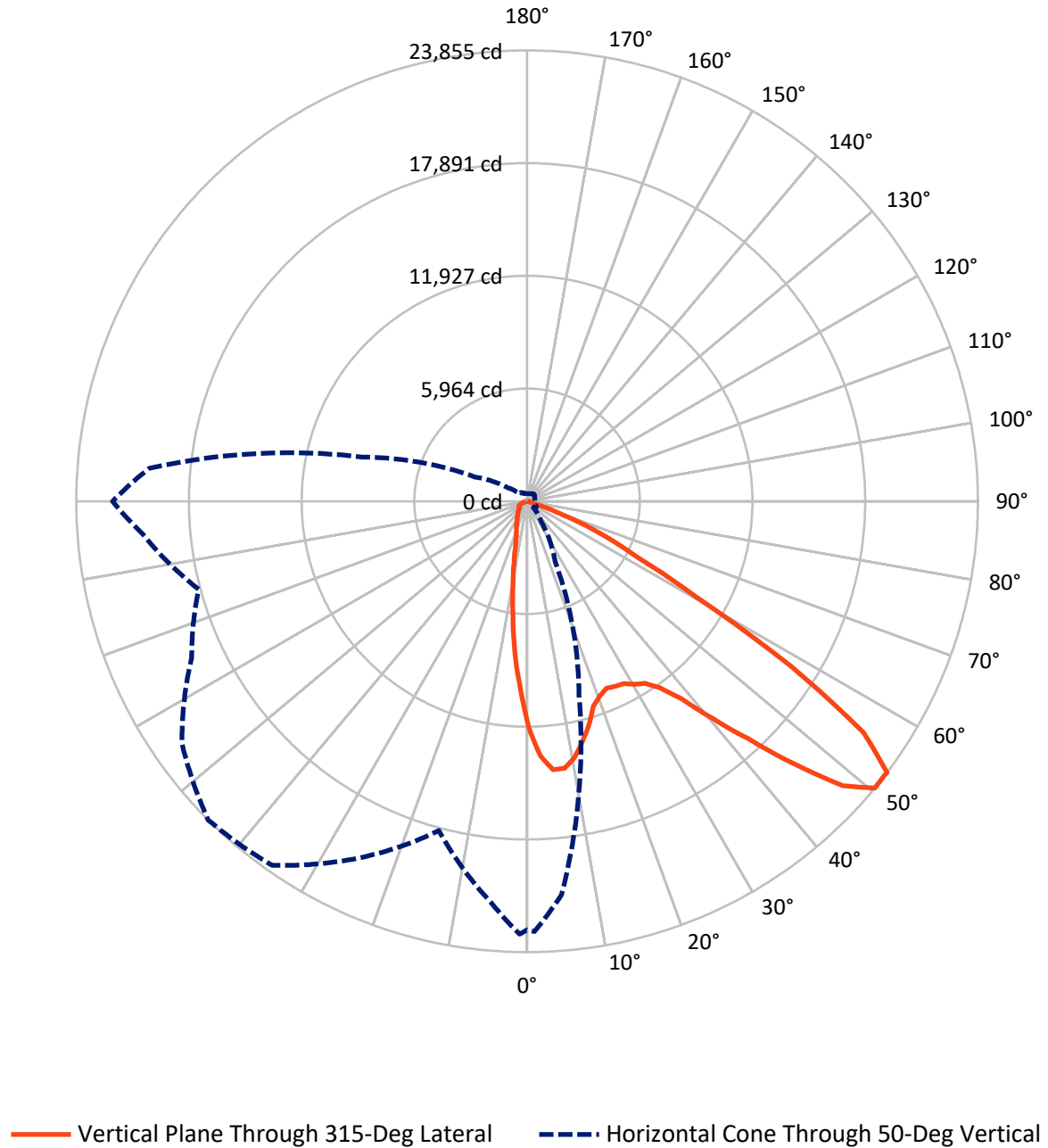
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 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	4739.7	0.0	4739.7
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	18923.3	0.0	18923.3
	% Fixture	80.0	0.0	80.0
Total	Lumens	23663.0	0.0	23663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	874.7	3.7
10°-20°	1738.4	7.3
20°-30°	2611.6	11.0
30°-40°	3919.9	16.6
40°-50°	5509.2	23.3
50°-60°	5942.6	25.1
60°-70°	2759.1	11.7
70°-80°	259.6	1.1
80°-90°	47.9	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°	23663.0	100.0
0°-180°	23663.0	100.0

Coefficient of Utilization



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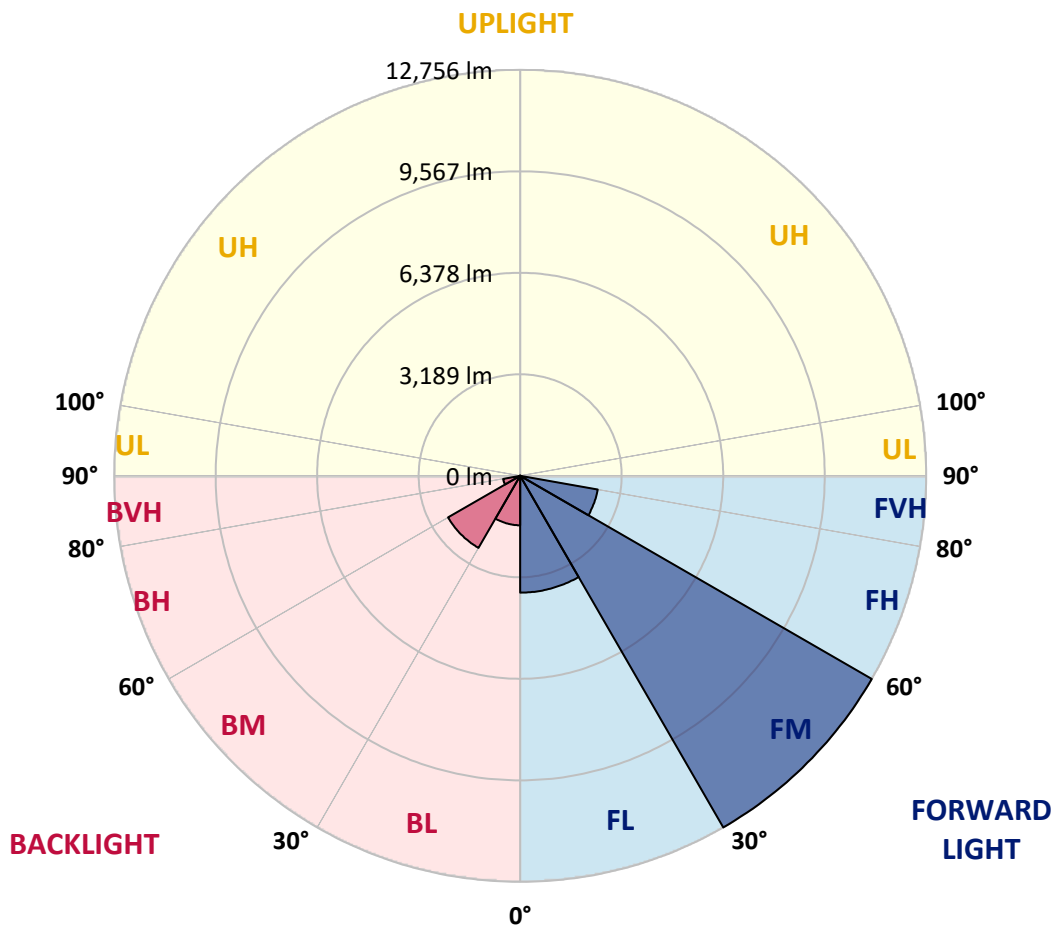
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3671.1	15.5			
FM (30°-60°)	12756.1	53.9			
FH (60°-80°)	2474.5	10.5			G2/5000
FVH (80°-90°)	21.6	0.1			G1/100
BL (0°-30°)	1553.6	6.6	B3/2500		
BM (30°-60°)	2615.6	11.1	B3/5000		
BH (60°-80°)	544.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	26.3	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°	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1
2.5°	12474.3	12281.8	12037.7	11835.8	11535.3	10929.7	10765.4	10568.2	10403.9	10183.2	9873.3
5°	11342.8	11281.8	11169.1	10408.6	9859.3	9126.9	8525.9	8272.4	7939.0	7666.7	7469.6
7.5°	10479.0	10234.8	9878.0	9112.8	8234.8	7450.8	6784.1	6394.4	5953.1	5802.9	5535.3
10°	9554.1	9610.4	9084.6	8009.5	6948.4	6314.6	5901.5	5525.9	5126.8	4863.9	4483.6
12.5°	9258.3	9075.2	8671.5	7342.8	6436.7	5845.1	5342.8	4878.0	4455.4	4032.9	3666.7
15°	9450.8	9169.1	8605.7	7202.0	6042.3	5305.2	4676.1	4047.0	3657.3	3117.4	2737.1
17.5°	10140.9	9915.6	9159.7	7352.2	5840.4	4788.8	3854.5	3206.6	2610.4	2122.1	1929.6
20°	11291.2	10971.9	10023.6	7544.7	5540.0	4164.4	3126.8	2328.7	1765.3	1558.7	1450.7
22.5°	12418.0	12244.3	11047.1	7915.6	5272.4	3610.4	2347.4	1568.1	1319.3	1281.7	1211.3
25°	14563.5	14042.4	12610.5	8586.9	5065.8	3089.2	1770.0	1262.9	1117.4	1089.2	1098.6
27.5°	15840.5	15403.9	14056.5	9033.0	4835.7	2690.2	1497.7	1159.6	1061.0	1000.0	976.5
30°	17065.9	16558.9	14774.8	9295.9	4342.8	2267.6	1328.7	1112.7	1089.2	1000.0	971.8
32.5°	18009.6	17511.9	15812.4	9690.2	4140.9	1995.3	1093.9	868.6	807.5	798.1	882.6
35°	19455.6	18925.1	16699.7	9906.2	3986.0	1854.5	948.4	774.7	704.2	676.1	680.8
37.5°	20803.0	20441.5	17521.3	9990.7	3821.6	1812.2	849.8	694.8	633.8	615.0	610.3
40°	21929.8	21122.3	18300.7	10079.9	3751.2	1732.4	788.7	633.8	591.6	563.4	563.4
42.5°	22446.2	21624.6	19173.9	10028.3	3732.4	1605.7	788.7	582.2	549.3	521.1	516.4
45°	22333.6	22000.2	19563.6	10004.8	3732.4	1478.9	718.3	568.1	521.1	483.6	474.2
47.5°	22624.6	22188.0	20051.9	10103.4	3657.3	1389.7	605.6	596.3	493.0	446.0	436.6
50°	22676.3	22760.8	20901.6	10615.1	3493.0	1277.0	474.2	586.9	474.2	403.8	394.4
52°	23014.3	22488.5	21159.8	10887.4	3319.3	1192.5	399.1	502.4	455.4	375.6	366.2
52.5°	22549.5	22892.3	21220.9	10986.0	3338.1	1136.2	385.0	493.0	446.0	375.6	352.1
55°	22028.4	22357.0	20972.0	11197.3	3061.1	892.0	300.5	356.8	403.8	328.6	314.6
57.5°	19145.7	19479.1	18225.5	10253.6	2493.0	629.1	248.8	267.6	356.8	305.2	291.1
60°	17019.0	16779.5	15295.9	8554.1	1770.0	352.1	197.2	206.6	389.7	281.7	277.0
62.5°	15554.2	15042.4	12784.2	6605.7	1079.8	234.7	154.9	159.6	300.5	262.9	262.9
65°	11507.2	10934.4	8493.0	3995.3	530.5	164.3	117.4	126.8	187.8	225.4	225.4
67.5°	6568.1	6347.5	4103.3	1802.8	220.7	103.3	89.2	98.6	145.5	183.1	173.7
70°	3018.8	2708.9	1577.5	380.3	103.3	70.4	70.4	79.8	117.4	136.2	126.8
72.5°	882.6	835.7	385.0	61.0	42.3	42.3	46.9	61.0	89.2	103.3	93.9
75°	65.7	42.3	28.2	18.8	18.8	28.2	37.6	61.0	89.2	98.6	79.8
77.5°	4.7	9.4	4.7	4.7	14.1	28.2	42.3	75.1	117.4	122.1	89.2
80°	4.7	4.7	0.0	4.7	14.1	28.2	46.9	84.5	131.5	140.8	75.1
82.5°	0.0	0.0	0.0	4.7	18.8	37.6	56.3	89.2	122.1	150.2	79.8
85°	0.0	0.0	0.0	4.7	28.2	51.6	65.7	23.5	14.1	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°	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1
2.5°	10094.0	9971.9	9925.0	9967.2	9953.2	9939.1	10197.3	10140.9	10131.6	10216.1	10197.3
5°	7577.5	7361.6	7953.1	7713.7	7962.5	8112.8	8140.9	8155.0	8328.7	8145.6	8385.1
7.5°	5399.1	5455.5	5450.8	5610.4	5896.8	6150.3	6300.5	6183.2	6173.8	6150.3	6047.0
10°	4314.6	4216.0	4197.2	4159.7	4248.9	4464.8	4647.9	4502.4	4399.1	4540.0	4497.7
12.5°	3525.9	3389.7	3314.6	3164.4	3169.0	3314.6	3314.6	3314.6	3417.9	3497.7	3558.7
15°	2704.3	2591.6	2591.6	2441.3	2408.5	2413.2	2488.3	2497.7	2662.0	2708.9	2732.4
17.5°	1892.0	1831.0	1901.4	1962.5	1924.9	1934.3	1962.5	1971.9	1995.3	1976.5	2023.5
20°	1455.4	1446.0	1464.8	1572.8	1652.6	1699.5	1666.7	1619.7	1591.6	1525.8	1525.8
22.5°	1234.8	1253.5	1286.4	1375.6	1478.9	1507.1	1469.5	1361.5	1277.0	1267.6	1272.3
25°	1098.6	1117.4	1169.0	1225.4	1281.7	1328.7	1291.1	1211.3	1164.3	1122.1	1122.1
27.5°	1014.1	1023.5	1051.7	1093.9	1140.9	1178.4	1164.3	1122.1	1070.4	1051.7	1009.4
30°	948.4	962.5	995.3	1004.7	1047.0	1065.7	1042.3	1032.9	1000.0	976.5	962.5
32.5°	915.5	910.8	934.3	943.7	948.4	962.5	934.3	948.4	943.7	906.1	892.0
35°	690.1	727.7	788.7	840.4	854.5	873.2	868.6	849.8	798.1	755.9	704.2
37.5°	619.7	643.2	676.1	718.3	774.7	798.1	788.7	741.8	680.8	652.6	643.2
40°	572.8	586.9	615.0	643.2	699.5	741.8	708.9	666.7	619.7	596.3	582.2
42.5°	530.5	535.2	549.3	577.5	619.7	685.5	629.1	572.8	554.0	539.9	530.5
45°	483.6	483.6	502.4	516.4	563.4	624.4	568.1	516.4	507.0	497.7	493.0
47.5°	446.0	450.7	460.1	478.9	516.4	558.7	521.1	478.9	455.4	450.7	441.3
50°	399.1	403.8	422.5	441.3	488.3	511.7	488.3	441.3	417.8	403.8	403.8
52°	361.5	375.6	394.4	431.9	464.8	502.4	474.2	422.5	394.4	380.3	370.9
52.5°	356.8	366.2	385.0	427.2	464.8	497.7	469.5	417.8	385.0	375.6	366.2
55°	319.3	333.3	366.2	417.8	460.1	497.7	460.1	413.1	366.2	342.7	333.3
57.5°	305.2	314.6	356.8	422.5	455.4	497.7	460.1	413.1	366.2	323.9	314.6
60°	291.1	309.9	356.8	408.5	450.7	502.4	464.8	408.5	356.8	305.2	305.2
62.5°	277.0	291.1	352.1	399.1	431.9	483.6	446.0	399.1	342.7	291.1	286.4
65°	239.4	262.9	309.9	333.3	370.9	417.8	380.3	347.4	300.5	258.2	253.5
67.5°	183.1	192.5	230.0	258.2	281.7	323.9	305.2	262.9	230.0	197.2	197.2
70°	126.8	136.2	164.3	178.4	201.9	225.4	211.3	178.4	154.9	136.2	131.5
72.5°	89.2	93.9	103.3	112.7	122.1	131.5	126.8	103.3	89.2	84.5	79.8
75°	70.4	79.8	84.5	79.8	75.1	70.4	70.4	61.0	51.6	46.9	46.9
77.5°	70.4	75.1	70.4	61.0	51.6	46.9	42.3	37.6	28.2	23.5	28.2
80°	61.0	61.0	61.0	51.6	46.9	42.3	37.6	32.9	28.2	23.5	23.5
82.5°	65.7	65.7	61.0	51.6	51.6	42.3	42.3	37.6	32.9	23.5	23.5
85°	0.0	0.0	0.0	9.4	23.5	42.3	42.3	37.6	32.9	28.2	28.2
87.5°	0.0	0.0	0.0	0.0	4.7	9.4	18.8	23.5	28.2	28.2	28.2
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°	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1
2.5°	10366.3	10544.7	10882.7	11220.8	11427.3	11671.5	12112.8	12347.5	12652.7	12802.9	13098.7
5°	8352.2	8774.7	8925.0	9310.0	9723.1	10136.3	10793.5	11516.6	12117.5	12530.6	13065.9
7.5°	6094.0	6192.6	6774.7	7032.9	7709.0	8460.2	9356.9	10267.7	11028.3	11704.3	12112.8
10°	4568.1	4929.6	5295.8	5788.8	6333.4	7108.1	7967.2	8971.9	9957.8	10633.9	11150.3
12.5°	3671.4	3957.8	4446.1	4976.6	5647.9	6159.7	7023.5	8018.9	9295.9	9957.8	10638.6
15°	2779.4	3145.6	3699.6	4248.9	4957.8	5497.7	6371.0	7624.5	9267.7	10178.5	10765.4
17.5°	2061.1	2309.9	2807.5	3422.6	4145.6	4906.2	6084.6	7582.2	9582.3	10666.8	11272.4
20°	1577.5	1662.0	1976.5	2525.8	3309.9	4305.2	5619.8	7765.3	10511.8	11854.6	12469.6
22.5°	1277.0	1314.6	1436.6	1816.9	2577.5	3779.4	5399.1	7892.1	11558.8	13277.1	14098.7
25°	1112.7	1103.3	1183.1	1347.4	2014.1	3286.4	5117.4	8371.0	12840.5	14948.5	15685.6
27.5°	1014.1	1014.1	1051.7	1169.0	1671.4	2967.2	4939.0	8713.7	14131.6	16418.0	16817.1
30°	962.5	971.8	1079.8	1117.4	1389.7	2586.9	4643.2	9061.1	15366.4	17357.0	17906.3
32.5°	892.0	854.5	831.0	924.9	1169.0	2244.2	4347.5	9206.7	16366.4	18507.2	18976.7
35°	685.5	666.7	694.8	765.3	1004.7	1953.1	4018.8	9371.0	17516.6	19840.6	19934.5
37.5°	619.7	615.0	633.8	694.8	845.1	1699.5	3784.1	9328.7	18394.6	20943.9	20690.4
40°	572.8	572.8	586.9	638.5	755.9	1521.1	3539.9	9291.2	19244.3	22183.3	21441.5
42.5°	535.2	535.2	558.7	591.6	718.3	1403.8	3356.8	9239.5	19958.0	22943.9	21882.9
45°	483.6	497.7	535.2	568.1	727.7	1324.0	3220.7	9042.3	20202.1	22934.5	21671.6
47.5°	446.0	464.8	502.4	549.3	657.3	1300.5	3126.8	8868.6	20117.6	22371.1	21009.6
50°	403.8	427.2	478.9	558.7	558.7	1253.5	3028.2	9023.6	20056.5	21934.5	20375.8
52°	375.6	394.4	460.1	544.6	488.3	1154.9	2967.2	9324.0	20305.4	21878.2	20094.1
52.5°	370.9	385.0	446.0	535.2	464.8	1136.2	2924.9	9394.5	20385.2	21737.3	20286.6
55°	328.6	347.4	408.5	417.8	380.3	934.3	2788.8	9554.1	19990.8	21460.3	20103.5
57.5°	309.9	319.3	361.5	342.7	328.6	704.2	2399.1	9305.3	17756.1	19061.2	18704.4
60°	286.4	295.8	338.0	267.6	277.0	493.0	1802.8	8079.9	14258.4	15882.8	16526.0
62.5°	277.0	272.3	319.3	216.0	234.7	356.8	1272.3	6568.1	10986.0	13075.3	14187.9
65°	244.1	239.4	230.0	183.1	201.9	277.0	760.6	4286.4	7741.9	9892.1	10502.5
67.5°	187.8	197.2	169.0	145.5	169.0	216.0	422.5	1920.2	4061.1	5934.3	6427.3
70°	131.5	140.8	136.2	126.8	150.2	178.4	244.1	657.3	1680.8	3117.4	3436.7
72.5°	79.8	98.6	103.3	108.0	131.5	154.9	173.7	211.3	446.0	1103.3	1370.9
75°	46.9	65.7	79.8	93.9	108.0	131.5	145.5	150.2	154.9	206.6	333.3
77.5°	32.9	46.9	70.4	89.2	108.0	131.5	154.9	164.3	154.9	145.5	154.9
80°	28.2	46.9	65.7	84.5	112.7	136.2	154.9	154.9	150.2	131.5	140.8
82.5°	28.2	46.9	70.4	89.2	108.0	131.5	150.2	154.9	140.8	131.5	136.2
85°	32.9	51.6	75.1	93.9	117.4	108.0	98.6	79.8	75.1	61.0	65.7
87.5°	32.9	46.9	46.9	51.6	56.3	56.3	56.3	51.6	42.3	37.6	37.6
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: P532891

CATALOG NUMBER: GALN-SA8B-735-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1	12000.1
2.5°	13112.8	13488.4	13474.3	13483.7	13427.4	13047.1	12864.0	12399.2	12530.6	12474.3
5°	13615.2	13986.1	14305.3	14267.8	13835.8	13319.4	12554.1	11831.1	11633.9	11342.8
7.5°	13112.8	14004.8	14300.6	14258.4	13619.9	12957.9	11737.2	11014.2	10671.5	10479.0
10°	12314.7	13347.6	13713.8	13788.9	13356.9	12352.2	11230.2	10070.5	9887.4	9554.1
12.5°	11859.3	12610.5	12835.8	13037.7	12887.5	12136.3	10845.2	9732.5	9479.0	9258.3
15°	11488.4	11934.4	12028.3	12258.3	12347.5	11943.8	11047.1	10098.7	9474.3	9450.8
17.5°	11831.1	11648.0	11305.3	11375.7	11657.4	11948.5	11568.2	10821.7	10216.1	10140.9
20°	12399.2	11591.7	10817.0	10990.7	11225.5	12117.5	12356.9	11831.1	11483.7	11291.2
22.5°	13051.8	11690.3	10662.1	10746.6	11192.6	12497.8	13633.9	13342.9	12695.0	12418.0
25°	14258.4	11962.6	10784.1	10840.5	11450.8	13028.3	14788.9	15004.8	14619.9	14563.5
27.5°	15436.8	12666.8	11051.8	10925.0	11582.3	13544.7	15488.4	16648.1	15972.0	15840.5
30°	16037.7	13239.6	11450.8	11234.9	12126.9	13859.3	15911.0	17718.5	17126.9	17065.9
32.5°	16957.9	13760.7	11760.7	11483.7	12432.1	14249.0	16699.7	18887.5	18314.7	18009.6
35°	17342.9	14328.8	12441.4	12117.5	13305.3	14793.6	17103.5	19929.8	19751.4	19455.6
37.5°	18084.7	14939.1	13244.3	13225.5	14361.7	15502.5	17831.2	21347.6	21314.8	20803.0
40°	18145.7	15605.8	14511.9	15103.4	15995.5	16737.3	18469.7	21742.0	22277.2	21929.8
42.5°	18239.6	16774.8	16704.4	17192.7	17957.9	17798.3	18493.1	21835.9	22652.8	22446.2
45°	18281.9	17943.8	18934.5	19835.9	20155.1	19188.0	18272.5	21657.5	22850.0	22333.6
47.5°	17943.8	18948.6	20737.3	22479.1	22573.0	20042.5	18178.6	21474.4	22967.4	22624.6
50°	17990.8	19577.7	22296.0	23854.7	23512.0	20798.3	18033.0	21361.7	22906.3	22676.3
52°	17878.1	19591.8	22516.7	23826.5	23587.1	20380.5	17784.2	20929.8	22850.0	23014.3
52.5°	18004.9	19507.2	22286.6	23845.3	23535.5	20587.1	17751.4	21169.2	22882.9	22549.5
55°	17568.3	18502.5	20939.2	21601.2	21554.2	18685.6	16742.0	20375.8	22023.7	22028.4
57.5°	15878.1	16037.7	16422.7	16408.6	16192.7	14690.3	14319.4	18737.3	19634.0	19145.7
60°	13990.8	11741.9	10704.3	10281.8	10042.4	9798.2	12666.8	17141.0	17225.5	17019.0
62.5°	12089.3	8140.9	6760.6	6643.3	6699.6	7591.6	12244.3	16507.2	16000.2	15554.2
65°	9756.0	5934.3	4910.8	4755.9	5305.2	6267.7	9910.9	12657.4	11878.1	11507.2
67.5°	6126.8	4328.7	3319.3	3028.2	3690.2	4314.6	6511.8	7953.1	7079.9	6568.1
70°	3633.8	2417.9	1502.4	1347.4	1516.4	2300.5	3647.9	3967.2	3281.7	3018.8
72.5°	1431.9	887.3	417.8	356.8	370.9	807.5	1342.7	1309.9	990.6	882.6
75°	385.0	267.6	145.5	117.4	98.6	150.2	216.0	140.8	51.6	65.7
77.5°	178.4	159.6	126.8	98.6	75.1	56.3	28.2	9.4	9.4	4.7
80°	154.9	136.2	117.4	98.6	75.1	46.9	23.5	4.7	4.7	4.7
82.5°	145.5	126.8	108.0	89.2	70.4	46.9	23.5	4.7	0.0	0.0
85°	61.0	79.8	89.2	84.5	75.1	46.9	23.5	4.7	0.0	0.0
87.5°	32.9	28.2	23.5	18.8	14.1	9.4	9.4	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)