

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: P530551

Luminaire Tested: **GALN-SA5D-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530551
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-SA5D-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA 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: 19951 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

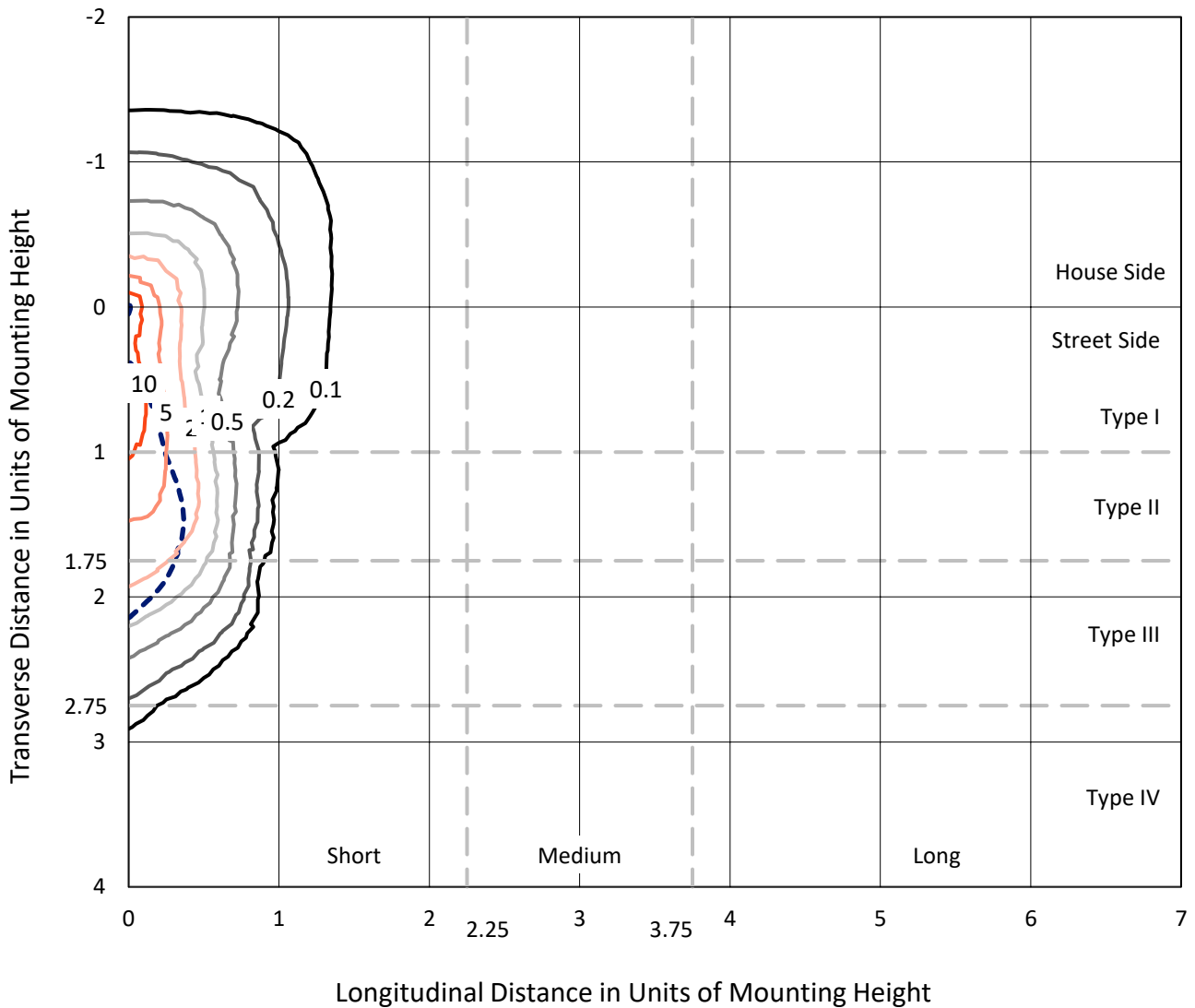
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

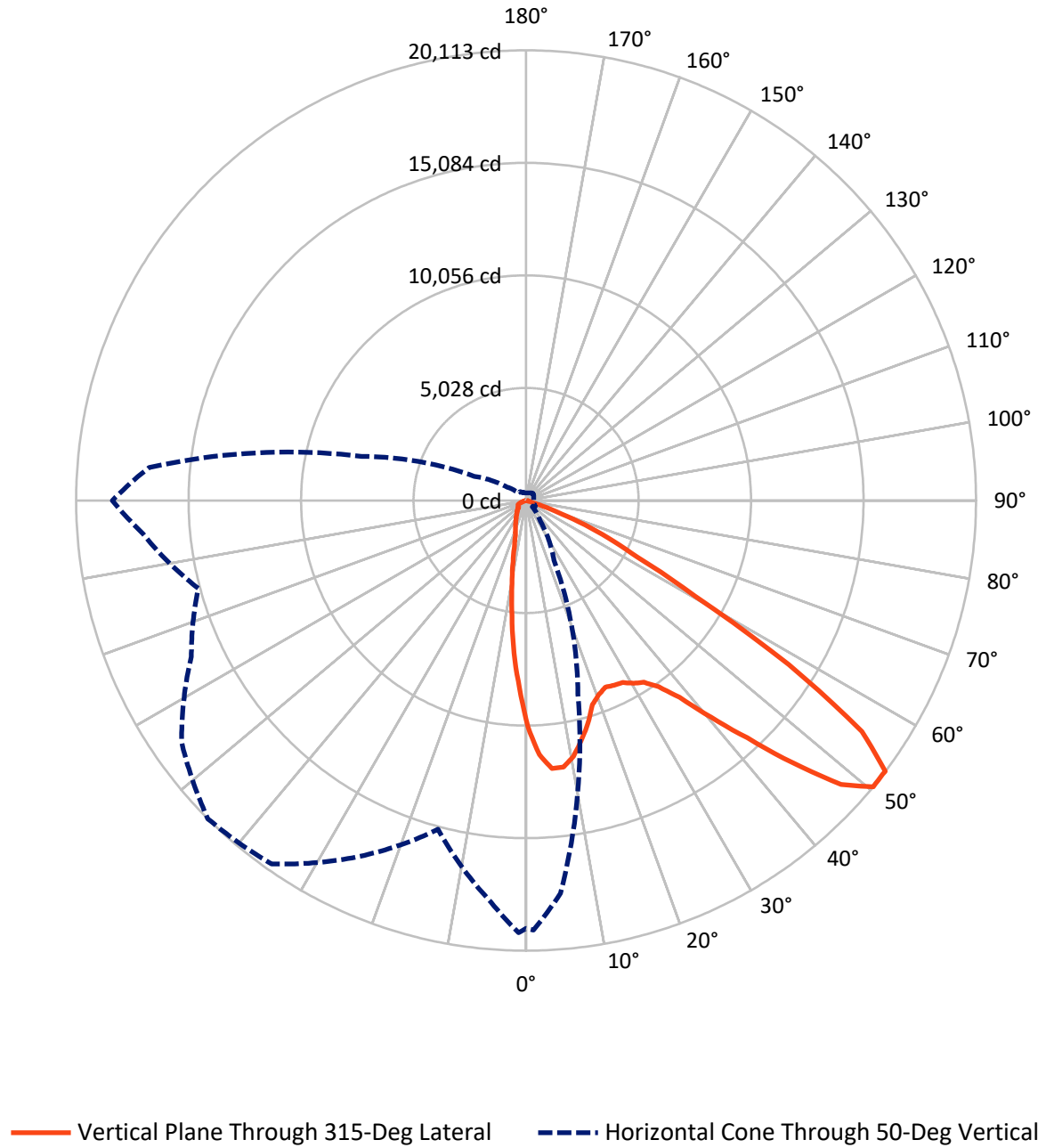
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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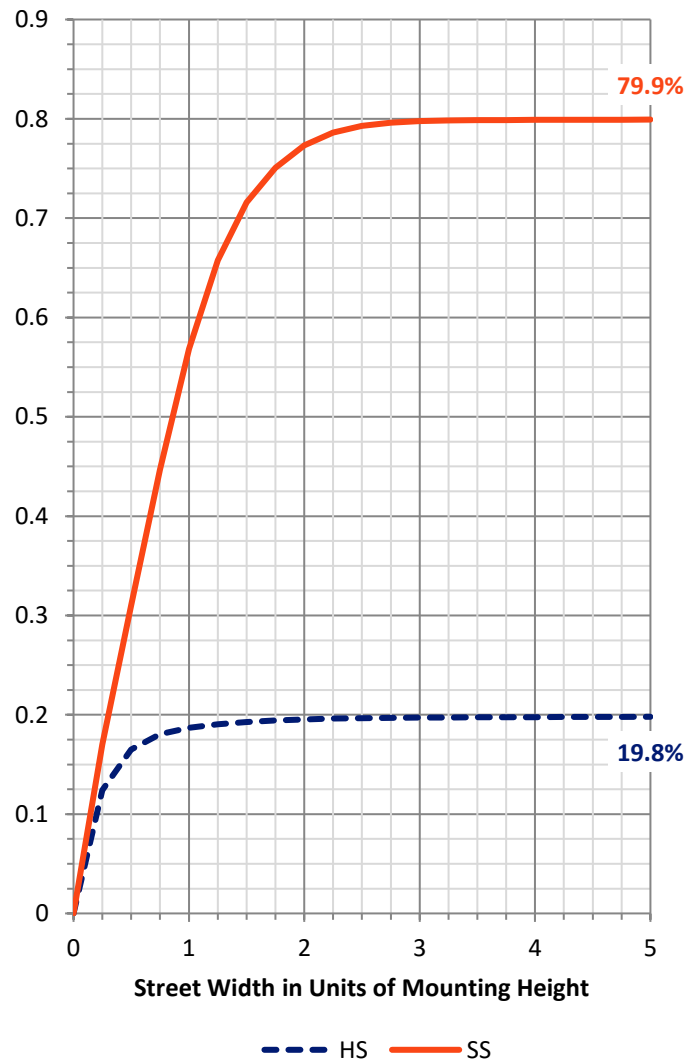
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3996.2	0.0	3996.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	15954.8	0.0	15954.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	19951.0	0.0	19951.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.5	3.7
10°-20°	1465.7	7.3
20°-30°	2201.9	11.0
30°-40°	3305.0	16.6
40°-50°	4645.0	23.3
50°-60°	5010.4	25.1
60°-70°	2326.3	11.7
70°-80°	218.9	1.1
80°-90°	40.3	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°	19951.0	100.0
0°-180°	19951.0	100.0



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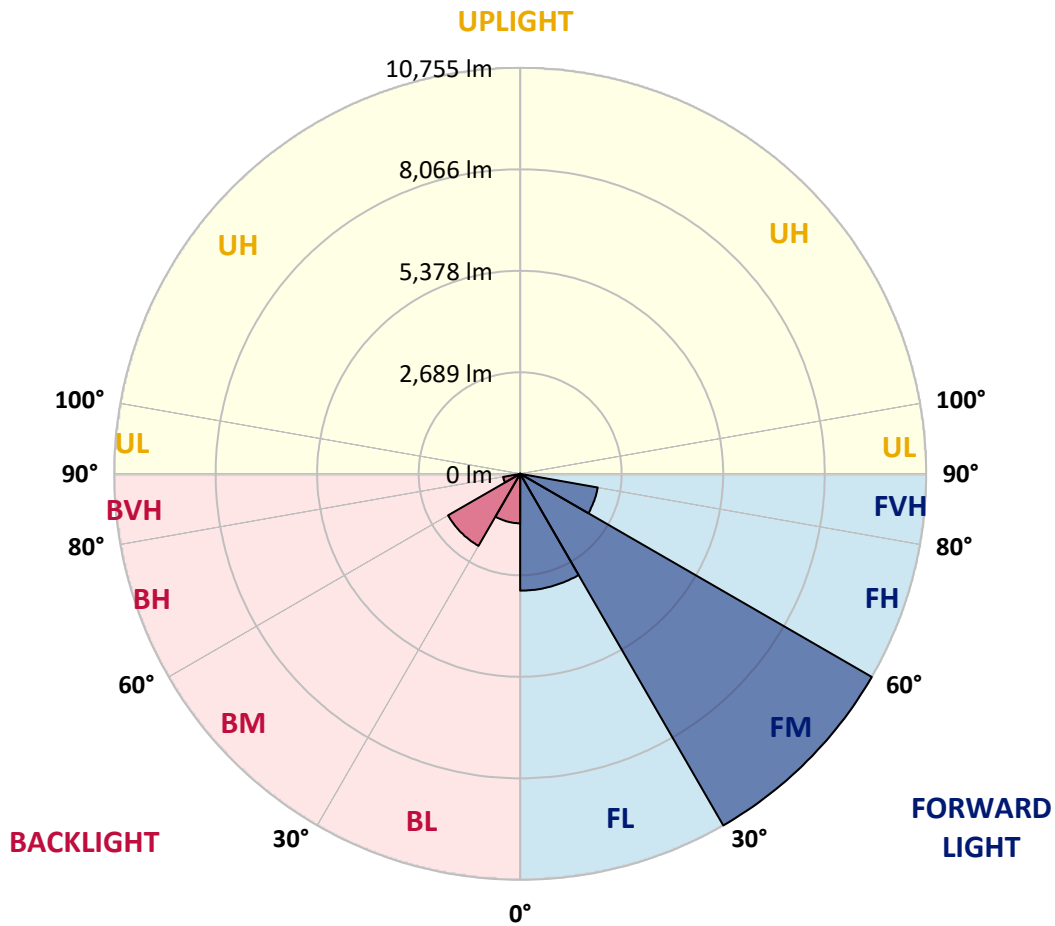
CATALOG NUMBER: GALN-SA5D-735-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3095.2	15.5			
FM (30°-60°)	10755.1	53.9			
FH (60°-80°)	2086.3	10.5			G2/5000
FVH (80°-90°)	18.2	0.1			G1/100
BL (0°-30°)	1309.8	6.6	B3/2500		
BM (30°-60°)	2205.3	11.1	B2/2500		
BH (60°-80°)	458.9	2.3	B1/500		G1/500
BVH (80°-90°)	22.2	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7
2.5°	10517.5	10355.2	10149.3	9979.1	9725.8	9215.2	9076.6	8910.4	8771.8	8585.8	8324.5
5°	9563.5	9512.0	9417.0	8775.8	8312.6	7695.1	7188.5	6974.7	6693.7	6464.1	6297.8
7.5°	8835.2	8629.3	8328.5	7683.3	6943.0	6282.0	5719.9	5391.3	5019.3	4892.6	4667.0
10°	8055.3	8102.8	7659.5	6753.0	5858.4	5324.0	4975.7	4659.0	4322.6	4100.9	3780.3
12.5°	7806.0	7651.6	7311.2	6190.9	5427.0	4928.2	4504.7	4112.8	3756.5	3400.3	3091.5
15°	7968.3	7730.8	7255.7	6072.2	5094.5	4473.0	3942.6	3412.1	3083.6	2628.4	2307.7
17.5°	8550.1	8360.1	7722.8	6198.9	4924.3	4037.6	3249.8	2703.6	2200.9	1789.2	1626.9
20°	9520.0	9250.8	8451.2	6361.1	4670.9	3511.1	2636.3	1963.4	1488.4	1314.2	1223.1
22.5°	10470.0	10323.5	9314.1	6673.9	4445.3	3044.0	1979.2	1322.1	1112.3	1080.6	1021.3
25°	12279.0	11839.6	10632.3	7239.9	4271.1	2604.6	1492.3	1064.8	942.1	918.3	926.3
27.5°	13355.6	12987.5	11851.5	7616.0	4077.2	2268.2	1262.7	977.7	894.6	843.1	823.3
30°	14388.8	13961.3	12457.1	7837.6	3661.5	1911.9	1120.2	938.1	918.3	843.1	819.4
32.5°	15184.4	14764.8	13331.9	8170.1	3491.3	1682.3	922.3	732.3	680.8	672.9	744.2
35°	16403.6	15956.3	14080.0	8352.2	3360.7	1563.6	799.6	653.1	593.8	570.0	574.0
37.5°	17539.7	17234.9	14772.8	8423.5	3222.1	1527.9	716.5	585.8	534.4	518.6	514.6
40°	18489.7	17808.8	15429.8	8498.7	3162.8	1460.6	665.0	534.4	498.8	475.0	475.0
42.5°	18925.1	18232.4	16166.1	8455.1	3146.9	1353.8	665.0	490.8	463.1	439.4	435.4
45°	18830.1	18549.1	16494.7	8435.4	3146.9	1246.9	605.6	479.0	439.4	407.7	399.8
47.5°	19075.5	18707.4	16906.3	8518.5	3083.6	1171.7	510.6	502.7	415.6	376.0	368.1
50°	19119.1	19190.3	17622.8	8949.9	2945.1	1076.7	399.8	494.8	399.8	340.4	332.5
52°	19404.1	18960.7	17840.5	9179.5	2798.6	1005.4	336.5	423.5	384.0	316.7	308.8
52.5°	19012.2	19301.2	17892.0	9262.7	2814.4	957.9	324.6	415.6	376.0	316.7	296.9
55°	18572.8	18849.9	17682.2	9440.8	2580.9	752.1	253.3	300.8	340.4	277.1	265.2
57.5°	16142.4	16423.4	15366.5	8645.1	2101.9	530.4	209.8	225.6	300.8	257.3	245.4
60°	14349.2	14147.3	12896.5	7212.2	1492.3	296.9	166.3	174.2	328.5	237.5	233.5
62.5°	13114.2	12682.7	10778.7	5569.5	910.4	197.9	130.6	134.6	253.3	221.7	221.7
65°	9702.0	9219.1	7160.7	3368.6	447.3	138.5	99.0	106.9	158.3	190.0	190.0
67.5°	5537.8	5351.8	3459.6	1520.0	186.0	87.1	75.2	83.1	122.7	154.4	146.5
70°	2545.3	2284.0	1330.0	320.6	87.1	59.4	59.4	67.3	99.0	114.8	106.9
72.5°	744.2	704.6	324.6	51.5	35.6	35.6	39.6	51.5	75.2	87.1	79.2
75°	55.4	35.6	23.8	15.8	15.8	23.8	31.7	51.5	75.2	83.1	67.3
77.5°	4.0	7.9	4.0	4.0	11.9	23.8	35.6	63.3	99.0	102.9	75.2
80°	4.0	4.0	0.0	4.0	11.9	23.8	39.6	71.3	110.8	118.8	63.3
82.5°	0.0	0.0	0.0	4.0	15.8	31.7	47.5	75.2	102.9	126.7	67.3
85°	0.0	0.0	0.0	4.0	23.8	43.5	55.4	19.8	11.9	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°	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7
2.5°	8510.6	8407.6	8368.1	8403.7	8391.8	8379.9	8597.6	8550.1	8542.2	8613.5	8597.6
5°	6388.9	6206.8	6705.5	6503.7	6713.4	6840.1	6863.9	6875.7	7022.2	6867.8	7069.7
7.5°	4552.2	4599.7	4595.7	4730.3	4971.8	5185.5	5312.2	5213.2	5205.3	5185.5	5098.4
10°	3637.8	3554.6	3538.8	3507.1	3582.4	3764.4	3918.8	3796.1	3709.0	3827.8	3792.1
12.5°	2972.8	2858.0	2794.6	2668.0	2671.9	2794.6	2794.6	2794.6	2881.7	2949.0	3000.5
15°	2280.0	2185.0	2185.0	2058.4	2030.7	2034.6	2098.0	2105.9	2244.4	2284.0	2303.8
17.5°	1595.2	1543.8	1603.2	1654.6	1622.9	1630.9	1654.6	1662.5	1682.3	1666.5	1706.1
20°	1227.1	1219.2	1235.0	1326.1	1393.4	1432.9	1405.2	1365.6	1341.9	1286.5	1286.5
22.5°	1041.1	1056.9	1084.6	1159.8	1246.9	1270.6	1239.0	1147.9	1076.7	1068.8	1072.7
25°	926.3	942.1	985.6	1033.1	1080.6	1120.2	1088.6	1021.3	981.7	946.1	946.1
27.5°	855.0	862.9	886.7	922.3	961.9	993.6	981.7	946.1	902.5	886.7	851.1
30°	799.6	811.5	839.2	847.1	882.7	898.6	878.8	870.8	843.1	823.3	811.5
32.5°	771.9	767.9	787.7	795.6	799.6	811.5	787.7	799.6	795.6	764.0	752.1
35°	581.9	613.6	665.0	708.6	720.4	736.3	732.3	716.5	672.9	637.3	593.8
37.5°	522.5	542.3	570.0	605.6	653.1	672.9	665.0	625.4	574.0	550.2	542.3
40°	482.9	494.8	518.6	542.3	589.8	625.4	597.7	562.1	522.5	502.7	490.8
42.5°	447.3	451.3	463.1	486.9	522.5	577.9	530.4	482.9	467.1	455.2	447.3
45°	407.7	407.7	423.5	435.4	475.0	526.5	479.0	435.4	427.5	419.6	415.6
47.5°	376.0	380.0	387.9	403.8	435.4	471.0	439.4	403.8	384.0	380.0	372.1
50°	336.5	340.4	356.3	372.1	411.7	431.5	411.7	372.1	352.3	340.4	340.4
52°	304.8	316.7	332.5	364.2	391.9	423.5	399.8	356.3	332.5	320.6	312.7
52.5°	300.8	308.8	324.6	360.2	391.9	419.6	395.8	352.3	324.6	316.7	308.8
55°	269.2	281.0	308.8	352.3	387.9	419.6	387.9	348.3	308.8	289.0	281.0
57.5°	257.3	265.2	300.8	356.3	384.0	419.6	387.9	348.3	308.8	273.1	265.2
60°	245.4	261.3	300.8	344.4	380.0	423.5	391.9	344.4	300.8	257.3	257.3
62.5°	233.5	245.4	296.9	336.5	364.2	407.7	376.0	336.5	289.0	245.4	241.5
65°	201.9	221.7	261.3	281.0	312.7	352.3	320.6	292.9	253.3	217.7	213.8
67.5°	154.4	162.3	194.0	217.7	237.5	273.1	257.3	221.7	194.0	166.3	166.3
70°	106.9	114.8	138.5	150.4	170.2	190.0	178.1	150.4	130.6	114.8	110.8
72.5°	75.2	79.2	87.1	95.0	102.9	110.8	106.9	87.1	75.2	71.3	67.3
75°	59.4	67.3	71.3	67.3	63.3	59.4	59.4	51.5	43.5	39.6	39.6
77.5°	59.4	63.3	59.4	51.5	43.5	39.6	35.6	31.7	23.8	19.8	23.8
80°	51.5	51.5	51.5	43.5	39.6	35.6	31.7	27.7	23.8	19.8	19.8
82.5°	55.4	55.4	51.5	43.5	43.5	35.6	35.6	31.7	27.7	19.8	19.8
85°	0.0	0.0	0.0	7.9	19.8	35.6	35.6	31.7	27.7	23.8	23.8
87.5°	0.0	0.0	0.0	0.0	4.0	7.9	15.8	19.8	23.8	23.8	23.8
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°	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7
2.5°	8740.1	8890.6	9175.6	9460.6	9634.7	9840.6	10212.7	10410.6	10667.9	10794.6	11043.9
5°	7042.0	7398.3	7524.9	7849.5	8197.8	8546.2	9100.4	9710.0	10216.6	10565.0	11016.2
7.5°	5138.0	5221.1	5712.0	5929.7	6499.7	7133.0	7889.1	8657.0	9298.3	9868.3	10212.7
10°	3851.5	4156.3	4465.1	4880.7	5339.9	5993.0	6717.4	7564.5	8395.8	8965.8	9401.2
12.5°	3095.5	3336.9	3748.6	4195.9	4762.0	5193.4	5921.8	6760.9	7837.6	8395.8	8969.7
15°	2343.4	2652.1	3119.2	3582.4	4180.1	4635.3	5371.5	6428.4	7813.9	8581.8	9076.6
17.5°	1737.7	1947.5	2367.1	2885.7	3495.3	4136.5	5130.1	6392.8	8079.1	8993.5	9504.1
20°	1330.0	1401.3	1666.5	2129.6	2790.7	3629.9	4738.2	6547.2	8862.9	9995.0	10513.5
22.5°	1076.7	1108.4	1211.3	1531.9	2173.2	3186.5	4552.2	6654.1	9745.6	11194.4	11887.1
25°	938.1	930.2	997.5	1136.1	1698.2	2770.9	4314.7	7057.8	10826.2	12603.5	13225.0
27.5°	855.0	855.0	886.7	985.6	1409.2	2501.7	4164.2	7346.8	11914.8	13842.5	14179.0
30°	811.5	819.4	910.4	942.1	1171.7	2181.1	3914.9	7639.7	12955.8	14634.2	15097.3
32.5°	752.1	720.4	700.6	779.8	985.6	1892.1	3665.5	7762.4	13799.0	15604.0	15999.9
35°	577.9	562.1	585.8	645.2	847.1	1646.7	3388.4	7901.0	14768.8	16728.2	16807.4
37.5°	522.5	518.6	534.4	585.8	712.5	1432.9	3190.5	7865.3	15509.0	17658.4	17444.7
40°	482.9	482.9	494.8	538.3	637.3	1282.5	2984.6	7833.7	16225.5	18703.4	18078.0
42.5°	451.3	451.3	471.0	498.8	605.6	1183.6	2830.3	7790.1	16827.2	19344.7	18450.1
45°	407.7	419.6	451.3	479.0	613.6	1116.3	2715.5	7623.9	17033.0	19336.8	18272.0
47.5°	376.0	391.9	423.5	463.1	554.2	1096.5	2636.3	7477.4	16961.7	18861.8	17713.8
50°	340.4	360.2	403.8	471.0	471.0	1056.9	2553.2	7608.0	16910.3	18493.6	17179.5
52°	316.7	332.5	387.9	459.2	411.7	973.8	2501.7	7861.4	17120.1	18446.1	16942.0
52.5°	312.7	324.6	376.0	451.3	391.9	957.9	2466.1	7920.8	17187.4	18327.4	17104.2
55°	277.1	292.9	344.4	352.3	320.6	787.7	2351.3	8055.3	16854.9	18093.8	16949.9
57.5°	261.3	269.2	304.8	289.0	277.1	593.8	2022.7	7845.5	14970.7	16071.1	15770.3
60°	241.5	249.4	285.0	225.6	233.5	415.6	1520.0	6812.4	12021.7	13391.3	13933.6
62.5°	233.5	229.6	269.2	182.1	197.9	300.8	1072.7	5537.8	9262.7	11024.1	11962.3
65°	205.8	201.9	194.0	154.4	170.2	233.5	641.3	3614.0	6527.4	8340.4	8854.9
67.5°	158.3	166.3	142.5	122.7	142.5	182.1	356.3	1619.0	3424.0	5003.4	5419.1
70°	110.8	118.8	114.8	106.9	126.7	150.4	205.8	554.2	1417.1	2628.4	2897.5
72.5°	67.3	83.1	87.1	91.0	110.8	130.6	146.5	178.1	376.0	930.2	1155.9
75°	39.6	55.4	67.3	79.2	91.0	110.8	122.7	126.7	130.6	174.2	281.0
77.5°	27.7	39.6	59.4	75.2	91.0	110.8	130.6	138.5	130.6	122.7	130.6
80°	23.8	39.6	55.4	71.3	95.0	114.8	130.6	130.6	126.7	110.8	118.8
82.5°	23.8	39.6	59.4	75.2	91.0	110.8	126.7	130.6	118.8	110.8	114.8
85°	27.7	43.5	63.3	79.2	99.0	91.0	83.1	67.3	63.3	51.5	55.4
87.5°	27.7	39.6	39.6	43.5	47.5	47.5	47.5	43.5	35.6	31.7	31.7
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: P530551

CATALOG NUMBER: GALN-SA5D-735-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7	10117.7
2.5°	11055.8	11372.5	11360.6	11368.5	11321.0	11000.4	10846.0	10454.1	10565.0	10517.5
5°	11479.4	11792.1	12061.2	12029.6	11665.4	11230.0	10584.8	9975.2	9808.9	9563.5
7.5°	11055.8	11807.9	12057.3	12021.7	11483.3	10925.2	9896.0	9286.4	8997.4	8835.2
10°	10382.9	11253.7	11562.5	11625.8	11261.6	10414.6	9468.5	8490.8	8336.4	8055.3
12.5°	9998.9	10632.3	10822.3	10992.5	10865.8	10232.5	9143.9	8205.8	7992.0	7806.0
15°	9686.2	10062.3	10141.4	10335.4	10410.6	10070.2	9314.1	8514.5	7988.1	7968.3
17.5°	9975.2	9820.8	9531.8	9591.2	9828.7	10074.1	9753.5	9124.1	8613.5	8550.1
20°	10454.1	9773.3	9120.2	9266.6	9464.5	10216.6	10418.5	9975.2	9682.2	9520.0
22.5°	11004.4	9856.4	8989.5	9060.8	9436.8	10537.3	11495.2	11249.8	10703.5	10470.0
25°	12021.7	10086.0	9092.4	9139.9	9654.5	10984.6	12469.0	12651.0	12326.5	12279.0
27.5°	13015.2	10679.8	9318.1	9211.2	9765.4	11420.0	13058.8	14036.5	13466.5	13355.6
30°	13521.9	11162.7	9654.5	9472.5	10224.5	11685.2	13415.0	14939.0	14440.2	14388.8
32.5°	14297.7	11602.1	9915.8	9682.2	10481.8	12013.7	14080.0	15924.6	15441.7	15184.4
35°	14622.3	12081.0	10489.8	10216.6	11218.1	12472.9	14420.5	16803.4	16653.0	16403.6
37.5°	15247.8	12595.6	11166.6	11150.8	12108.7	13070.6	15034.0	17998.8	17971.1	17539.7
40°	15299.2	13157.7	12235.4	12734.2	13486.3	14111.7	15572.3	18331.4	18782.6	18489.7
42.5°	15378.4	14143.4	14084.0	14495.7	15140.9	15006.3	15592.1	18410.5	19099.3	18925.1
45°	15414.0	15129.0	15964.2	16724.2	16993.4	16178.0	15406.1	18260.1	19265.5	18830.1
47.5°	15129.0	15976.1	17484.3	18952.8	19032.0	16898.4	15326.9	18105.7	19364.5	19075.5
50°	15168.6	16506.5	18798.4	20112.6	19823.7	17535.7	15204.2	18010.7	19313.0	19119.1
52°	15073.6	16518.4	18984.5	20088.9	19887.0	17183.4	14994.4	17646.5	19265.5	19404.1
52.5°	15180.5	16447.2	18790.5	20104.7	19843.5	17357.6	14966.7	17848.4	19293.2	19012.2
55°	14812.3	15600.1	17654.5	18212.6	18173.0	15754.4	14115.7	17179.5	18568.9	18572.8
57.5°	13387.3	13521.9	13846.5	13834.6	13652.5	12385.8	12073.1	15798.0	16554.0	16142.4
60°	11796.0	9900.0	9025.2	8668.9	8467.0	8261.2	10679.8	14452.1	14523.4	14349.2
62.5°	10192.9	6863.9	5700.1	5601.1	5648.6	6400.7	10323.5	13917.7	13490.2	13114.2
65°	8225.6	5003.4	4140.5	4009.9	4473.0	5284.5	8356.2	10671.8	10014.8	9702.0
67.5°	5165.7	3649.6	2798.6	2553.2	3111.3	3637.8	5490.3	6705.5	5969.3	5537.8
70°	3063.8	2038.6	1266.7	1136.1	1278.6	1939.6	3075.7	3344.8	2766.9	2545.3
72.5°	1207.3	748.1	352.3	300.8	312.7	680.8	1132.1	1104.4	835.2	744.2
75°	324.6	225.6	122.7	99.0	83.1	126.7	182.1	118.8	43.5	55.4
77.5°	150.4	134.6	106.9	83.1	63.3	47.5	23.8	7.9	7.9	4.0
80°	130.6	114.8	99.0	83.1	63.3	39.6	19.8	4.0	4.0	4.0
82.5°	122.7	106.9	91.0	75.2	59.4	39.6	19.8	4.0	0.0	0.0
85°	51.5	67.3	75.2	71.3	63.3	39.6	19.8	4.0	0.0	0.0
87.5°	27.7	23.8	19.8	15.8	11.9	7.9	7.9	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)