

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: P459542

Luminaire Tested: **GALN-SA9D-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46917 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

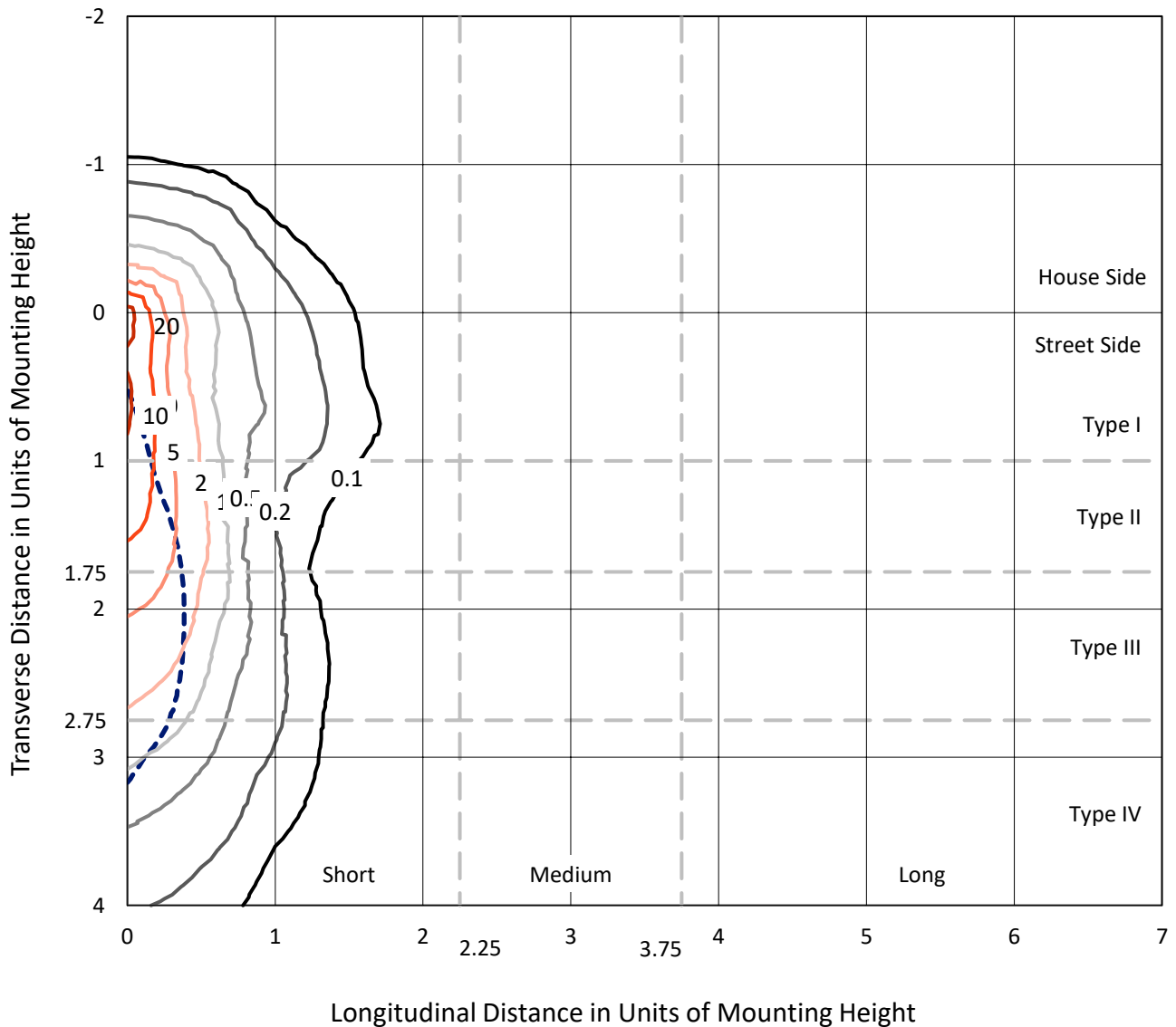
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

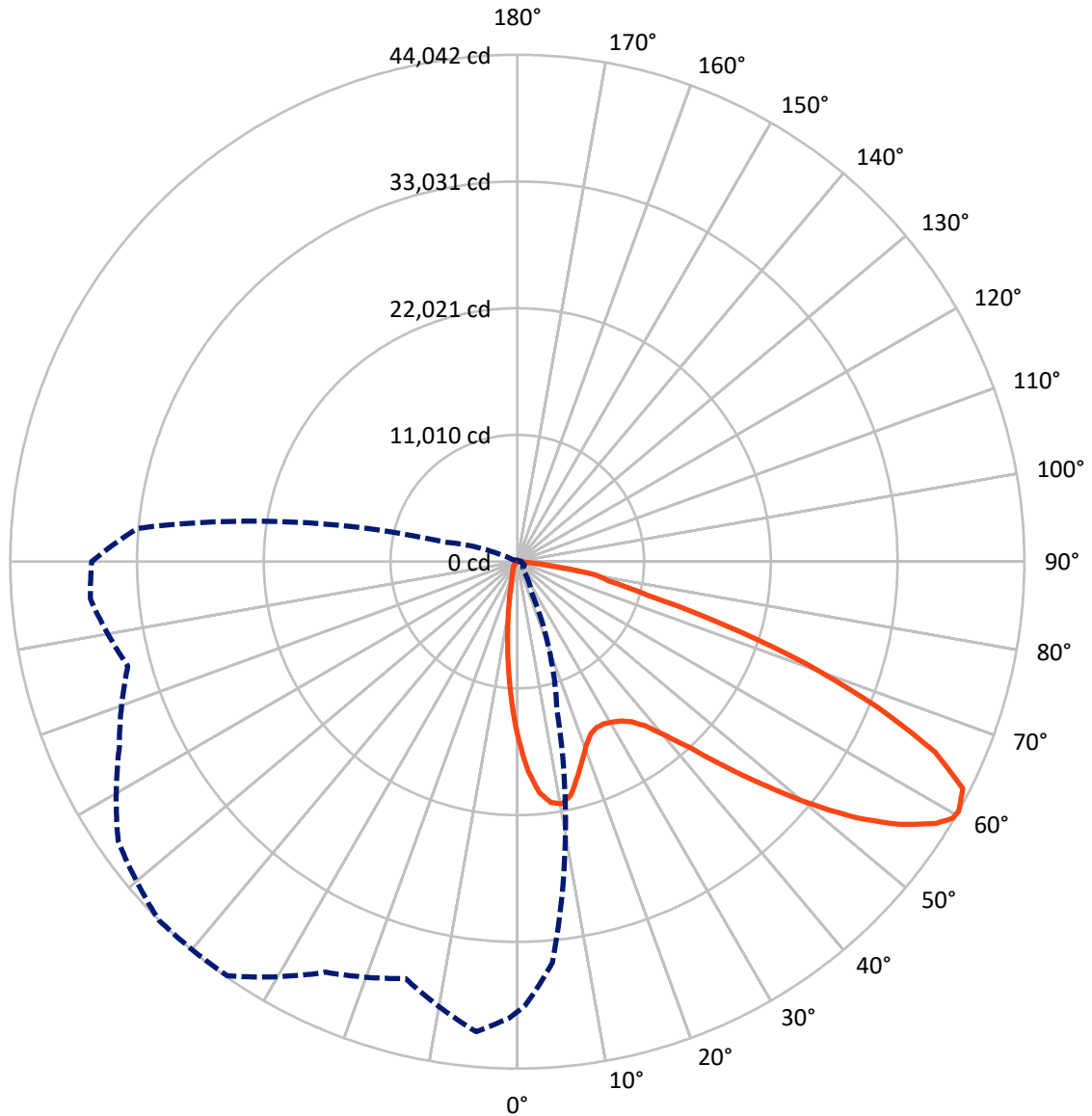
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5786.8	0.0	5786.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	41130.3	0.0	41130.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	46917.0	0.0	46917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1153.3	2.5
10°-20°	2290.5	4.9
20°-30°	3358.6	7.2
30°-40°	4994.8	10.6
40°-50°	7268.9	15.5
50°-60°	10482.4	22.3
60°-70°	11529.5	24.6
70°-80°	5164.3	11.0
80°-90°	674.8	1.4
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°	46917.0	100.0
0°-180°	46917.0	100.0

Coefficient of Utilization



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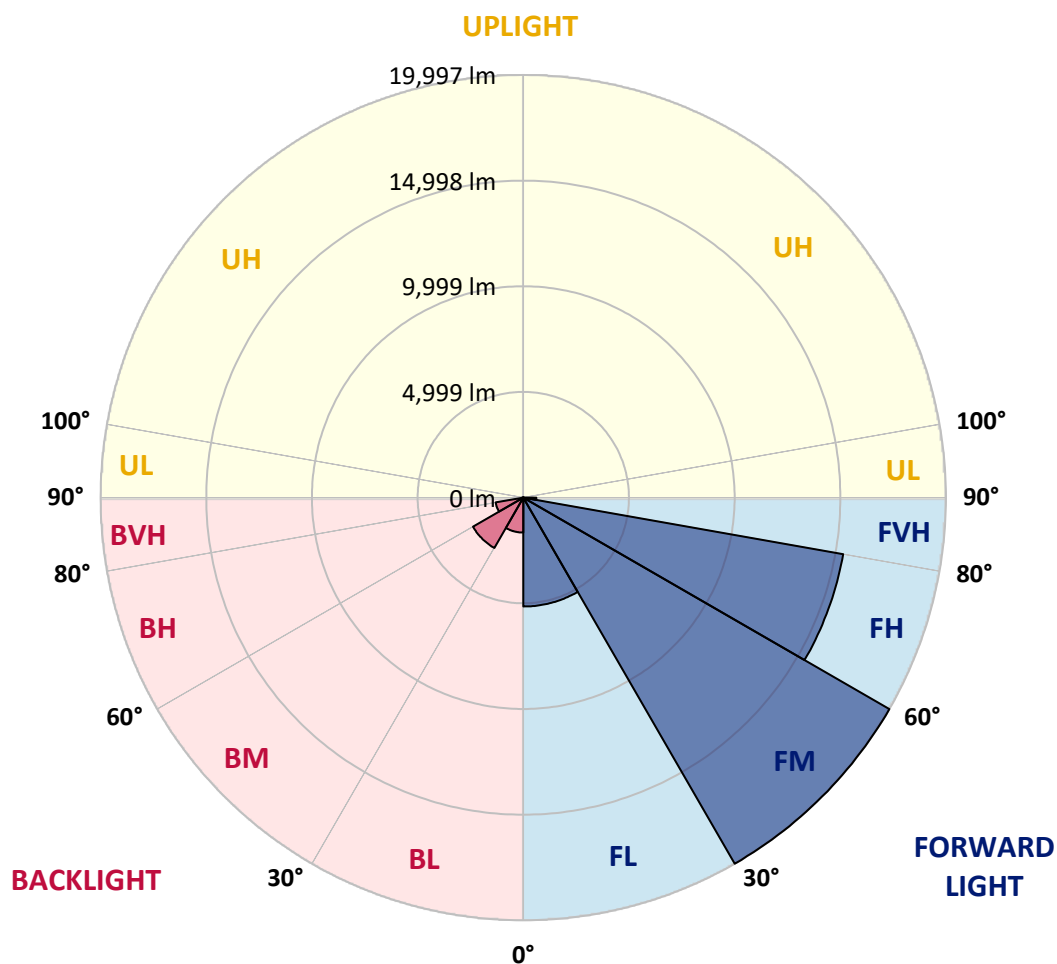
CATALOG NUMBER: GALN-SA9D-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5149.0	11.0			
FM	(30°-60°)	19997.5	42.6			
FH	(60°-80°)	15366.7	32.8			G5
FVH	(80°-90°)	617.1	1.3			G4/750
BL	(0°-30°)	1653.5	3.5	B3/2500		
BM	(30°-60°)	2748.6	5.9	B3/5000		
BH	(60°-80°)	1327.0	2.8	B3/2500		G3/2500
BVH	(80°-90°)	57.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7
2.5°	17047.4	16972.5	16801.3	16280.6	15827.7	15235.7	14636.5	14165.8	13876.9	13345.5	13103.0
5°	16516.0	16551.7	16056.0	14986.0	13794.9	12981.7	12093.7	11387.5	10610.1	10117.9	9600.8
7.5°	15128.7	15057.4	14518.8	13028.1	11580.1	10403.2	9279.8	8366.8	7792.6	7332.5	6947.4
10°	13941.1	13887.6	13199.3	11280.5	9725.6	8844.7	8085.0	7286.2	6669.2	5995.1	5456.6
12.5°	13195.7	13074.4	12282.7	10278.4	9012.3	8192.0	7364.6	6533.7	5681.3	5000.1	4347.5
15°	12946.1	12771.3	11890.4	9932.4	8555.8	7514.4	6476.6	5520.8	4540.0	3787.5	3295.4
17.5°	13399.0	13110.1	12172.1	9871.8	8010.2	6630.0	5353.2	4108.5	3088.5	2514.3	2211.2
20°	14436.8	14105.1	12885.4	9811.2	7403.9	5638.5	4069.3	2903.1	2136.3	1822.4	1654.8
22.5°	15977.5	15521.0	13941.1	9907.5	6843.9	4672.0	2938.7	2050.7	1697.6	1501.5	1383.8
25°	17828.5	17446.9	15278.5	10249.9	6401.7	3912.3	2271.8	1676.2	1430.1	1308.9	1219.7
27.5°	19857.8	19247.9	17008.2	10660.0	5998.7	3323.9	1993.6	1497.9	1273.2	1162.6	1116.3
30°	21302.2	20827.8	18456.2	10945.3	5495.8	2881.7	1822.4	1476.5	1276.8	1144.8	1059.2
32.5°	22728.7	22122.4	19668.7	11077.3	5128.5	2574.9	1576.4	1287.5	1119.9	1052.1	966.5
35°	24255.1	23620.3	20877.7	11005.9	4853.9	2371.7	1430.1	1148.4	959.4	845.2	759.6
37.5°	25799.4	25128.9	22079.6	10749.2	4682.7	2289.6	1316.0	1091.3	905.9	788.2	695.4
40°	27632.5	26737.4	23206.6	10538.7	4504.4	2246.8	1241.1	1055.7	866.6	741.8	649.1
42.5°	29130.4	28278.0	24273.0	10428.2	4383.1	2147.0	1241.1	1027.1	841.7	702.6	606.3
45°	30549.8	29665.4	25424.9	10517.3	4333.2	2022.2	1255.4	1023.6	823.8	674.1	577.8
47.5°	31737.5	30970.7	26609.0	10852.6	4269.0	1886.6	1180.5	1073.5	813.1	649.1	549.2
50°	33139.1	32397.2	28174.6	11530.2	4154.9	1751.1	1087.8	1155.5	809.6	627.7	524.3
52.5°	35114.8	34312.4	30335.9	12300.5	3973.0	1544.3	1002.2	1144.8	795.3	592.0	499.3
55°	37529.3	36880.2	32839.5	13224.2	3723.3	1312.4	866.6	1016.4	752.5	531.4	456.5
57.5°	39077.1	38524.3	34715.4	13623.7	3341.7	1073.5	763.2	852.4	688.3	474.3	406.6
59°	39259.0	38759.7	35107.7	13491.7	3092.1	980.8	713.3	731.1	670.5	442.2	378.0
60°	39105.7	38588.5	34950.8	13234.9	2860.3	916.6	670.5	649.1	674.1	424.4	356.6
62.5°	38121.3	37236.9	33427.9	11933.2	2500.1	841.7	595.6	531.4	595.6	381.6	317.4
65°	36220.4	34893.7	30414.3	10100.1	2357.4	798.9	506.4	445.8	452.9	335.2	274.6
67.5°	32900.1	31227.5	26402.1	8206.3	2296.8	802.4	428.0	399.4	349.5	285.3	242.5
70°	27650.4	25981.3	21184.5	6751.2	2268.2	802.4	363.8	342.4	292.4	238.9	210.4
72.5°	19593.8	17796.4	14290.6	5303.2	2043.6	798.9	310.3	310.3	238.9	199.7	171.2
75°	11070.1	11084.4	8983.8	3751.9	1697.6	659.8	249.6	246.1	174.8	153.4	128.4
77.5°	6451.6	6337.5	6055.8	1612.0	788.2	299.6	174.8	149.8	121.3	110.6	92.7
80°	3316.8	2728.3	2657.0	584.9	281.7	189.0	121.3	85.6	78.5	71.3	64.2
82.5°	980.8	984.3	877.3	235.4	156.9	124.8	60.6	46.4	42.8	39.2	39.2
85°	67.8	42.8	49.9	71.3	96.3	49.9	3.6	10.7	10.7	14.3	17.8
87.5°	7.1	3.6	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°	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7
2.5°	12835.5	12992.4	12700.0	12707.1	12464.6	12543.1	12257.7	12350.5	12182.8	12311.2	12689.3
5°	9657.8	9693.5	9458.1	9383.2	9418.9	9565.1	9622.2	9361.8	9472.4	9254.8	9240.6
7.5°	6804.7	6847.5	6712.0	6694.1	6950.9	6890.3	7000.9	6733.4	6480.2	6590.7	6387.4
10°	5285.4	5107.1	4828.9	4750.5	4700.5	4732.6	4732.6	4490.1	4454.4	4358.1	4504.4
12.5°	4172.7	3955.1	3691.2	3334.6	3245.4	3238.3	3106.3	2892.4	2824.6	2742.6	2863.8
15°	3031.4	2942.3	2721.2	2521.4	2318.2	2278.9	2064.9	1890.2	1658.4	1626.3	1615.6
17.5°	2132.7	2000.8	1997.2	1883.1	1765.4	1686.9	1487.2	1287.5	1198.3	1187.6	1187.6
20°	1597.8	1551.4	1476.5	1462.2	1426.6	1337.4	1159.1	1052.1	1009.3	1012.9	1027.1
22.5°	1344.5	1312.4	1244.7	1212.6	1198.3	1119.9	987.9	916.6	895.2	895.2	898.7
25°	1201.9	1173.3	1098.5	1048.5	1030.7	973.6	870.2	816.7	798.9	798.9	798.9
27.5°	1094.9	1059.2	980.8	938.0	905.9	841.7	777.5	724.0	706.1	706.1	709.7
30°	1020.0	980.8	909.4	852.4	802.4	745.4	691.9	645.5	624.1	620.6	624.1
32.5°	920.1	884.5	813.1	777.5	720.4	652.7	609.9	567.1	545.7	549.2	545.7
35°	716.8	706.1	656.2	666.9	634.8	577.8	538.5	492.2	467.2	463.6	470.8
37.5°	652.7	609.9	552.8	556.4	545.7	524.3	460.1	410.1	392.3	392.3	395.9
40°	602.7	559.9	495.7	463.6	467.2	467.2	399.4	345.9	328.1	324.5	331.7
42.5°	559.9	517.1	445.8	392.3	378.0	395.9	338.8	285.3	267.5	260.3	267.5
45°	531.4	485.0	403.0	342.4	299.6	321.0	278.2	235.4	214.0	214.0	210.4
47.5°	502.9	460.1	370.9	296.0	249.6	238.9	228.3	189.0	167.6	164.1	167.6
50°	477.9	435.1	335.2	256.8	210.4	185.5	185.5	149.8	135.5	128.4	132.0
52.5°	452.9	406.6	303.1	228.3	181.9	149.8	132.0	121.3	110.6	107.0	110.6
55°	417.3	370.9	271.0	196.2	156.9	124.8	103.4	99.9	92.7	85.6	92.7
57.5°	374.5	331.7	238.9	167.6	124.8	96.3	85.6	82.0	74.9	71.3	71.3
59°	349.5	310.3	221.1	146.2	110.6	85.6	78.5	74.9	67.8	60.6	64.2
60°	335.2	303.1	210.4	135.5	99.9	78.5	71.3	67.8	60.6	57.1	60.6
62.5°	296.0	271.0	185.5	110.6	78.5	57.1	49.9	53.5	49.9	46.4	49.9
65°	260.3	238.9	156.9	85.6	60.6	39.2	35.7	46.4	42.8	39.2	42.8
67.5°	231.8	206.9	132.0	64.2	42.8	21.4	25.0	39.2	39.2	35.7	39.2
70°	199.7	178.3	107.0	46.4	21.4	10.7	17.8	28.5	35.7	32.1	35.7
72.5°	164.1	139.1	82.0	32.1	10.7	0.0	10.7	25.0	35.7	32.1	35.7
75°	128.4	103.4	60.6	17.8	0.0	0.0	3.6	21.4	35.7	32.1	35.7
77.5°	92.7	74.9	35.7	3.6	0.0	0.0	3.6	21.4	35.7	32.1	35.7
80°	60.6	53.5	14.3	0.0	0.0	0.0	3.6	21.4	35.7	35.7	39.2
82.5°	39.2	28.5	0.0	0.0	0.0	0.0	7.1	28.5	39.2	42.8	42.8
85°	17.8	0.0	0.0	0.0	0.0	0.0	14.3	35.7	46.4	46.4	46.4
87.5°	0.0	0.0	0.0	0.0	0.0	7.1	25.0	42.8	53.5	53.5	53.5
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°	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7
2.5°	12753.5	12978.2	13295.6	13784.2	14180.0	14804.2	15282.1	15934.7	16594.5	16794.2	17104.5
5°	9386.8	9675.7	10396.1	11052.3	11466.0	12785.6	13620.1	14936.1	16116.6	16683.7	17300.6
7.5°	6519.4	6861.8	7411.0	8327.6	9197.8	10271.3	11619.4	13124.4	14854.1	15663.7	16533.9
10°	4575.7	5003.7	5777.6	6530.1	7625.0	8645.0	9975.2	11637.2	13545.2	14501.0	15592.3
12.5°	2888.8	3270.4	4294.0	5139.2	6505.1	7689.2	8916.0	10421.0	12632.2	13613.0	14757.8
15°	1651.2	1972.2	2450.1	3534.3	5050.0	6615.7	8145.7	9893.2	12165.0	13374.0	14611.6
17.5°	1230.4	1316.0	1530.0	2143.4	3523.6	5353.2	7436.0	9732.7	12482.4	13901.9	15314.2
20°	1034.3	1091.3	1191.2	1433.7	2246.8	4122.8	6744.1	9761.3	13509.6	15292.8	16633.7
22.5°	927.3	962.9	1045.0	1201.9	1533.6	3002.9	5934.5	9928.9	14754.2	17001.1	18548.9
25°	813.1	859.5	930.8	1066.4	1276.8	2082.8	5135.6	10303.4	16498.2	19169.4	20624.5
27.5°	724.0	766.8	838.1	962.9	1119.9	1590.6	4204.8	10624.3	18338.5	21352.1	22543.3
30°	634.8	677.6	748.9	848.8	991.5	1287.5	3202.6	10813.3	20125.2	22989.1	23905.6
32.5°	559.9	595.6	663.4	752.5	870.2	1091.3	2525.0	10617.2	21491.2	24476.3	25089.7
35°	485.0	527.8	584.9	666.9	770.3	930.8	2100.6	9939.6	22664.5	26006.2	26227.4
37.5°	406.6	456.5	517.1	592.0	674.1	855.9	1686.9	9190.6	23919.9	27914.3	27550.5
40°	342.4	388.7	445.8	527.8	602.7	784.6	1298.2	8391.8	25275.1	29704.6	28994.9
42.5°	278.2	328.1	395.9	470.8	595.6	684.8	1005.7	7564.3	26491.3	31263.1	30300.2
45°	221.1	263.9	335.2	431.5	592.0	588.5	777.5	6747.6	27407.8	32375.8	31273.8
47.5°	174.8	210.4	281.7	420.8	545.7	499.3	624.1	6241.2	28370.8	33378.0	32019.2
50°	139.1	174.8	242.5	438.7	477.9	428.0	524.3	6323.2	29301.6	33888.0	32325.9
52.5°	117.7	153.4	210.4	345.9	367.3	374.5	460.1	6701.3	30503.5	34433.7	32935.8
55°	103.4	135.5	178.3	242.5	285.3	335.2	420.8	6975.9	32111.9	35603.4	34280.3
57.5°	82.0	117.7	160.5	206.9	235.4	292.4	388.7	6997.3	33567.0	37104.9	36067.1
59°	74.9	107.0	149.8	196.2	210.4	263.9	367.3	6815.4	33620.5	37329.6	36887.4
60°	67.8	103.4	142.7	181.9	199.7	249.6	349.5	6605.0	33135.5	36972.9	37226.2
62.5°	57.1	89.2	124.8	146.2	171.2	206.9	303.1	5841.8	30785.2	35357.4	36598.5
65°	49.9	78.5	107.0	121.3	142.7	178.3	267.5	4675.6	28188.9	33167.6	34801.0
67.5°	46.4	71.3	92.7	103.4	124.8	164.1	238.9	3302.5	24825.8	30389.4	32101.2
70°	42.8	67.8	82.0	96.3	110.6	139.1	203.3	1925.9	19123.1	25517.6	27325.8
72.5°	42.8	64.2	71.3	82.0	96.3	124.8	189.0	1041.4	13074.4	19465.5	21801.4
75°	42.8	60.6	64.2	71.3	85.6	114.1	167.6	545.7	8452.4	13523.8	16690.8
77.5°	42.8	57.1	64.2	67.8	82.0	99.9	146.2	342.4	5631.4	9472.4	11280.5
80°	46.4	57.1	60.6	67.8	78.5	92.7	121.3	228.3	3309.6	5699.1	6865.3
82.5°	49.9	57.1	64.2	71.3	82.0	89.2	107.0	142.7	1526.4	3769.7	4265.4
85°	53.5	60.6	67.8	74.9	85.6	89.2	99.9	103.4	249.6	1701.2	2300.3
87.5°	57.1	64.2	71.3	78.5	92.7	92.7	92.7	92.7	85.6	181.9	463.6
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: P459542

CATALOG NUMBER: GALN-SA9D-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7	15506.7
2.5°	17496.8	17899.8	18181.5	18252.9	18049.6	17956.9	17700.1	17300.6	17058.1	17047.4
5°	18438.3	19383.4	20039.6	20150.2	19757.9	19094.5	18306.4	17289.9	16694.4	16516.0
7.5°	18277.8	19932.7	20988.3	21141.7	20481.9	19215.8	17689.4	16052.4	15403.3	15128.7
10°	17618.1	19636.6	21145.2	21387.7	20506.8	18723.6	16783.5	14957.5	14151.5	13941.1
12.5°	17054.6	19094.5	20435.5	20770.8	20103.8	18324.2	16241.4	14254.9	13391.9	13195.7
15°	16808.5	18452.6	19272.9	19444.1	19333.5	18074.6	16184.4	14147.9	13160.0	12946.1
17.5°	17054.6	17906.9	18010.4	18185.1	18431.2	18049.6	16733.6	14729.3	13662.9	13399.0
20°	17700.1	17432.6	17004.6	17079.5	17643.0	18153.0	17710.8	16016.7	14718.6	14436.8
22.5°	18798.5	17314.9	16344.8	16280.6	16993.9	18499.0	19144.5	17760.7	16255.7	15977.5
25°	20146.6	17610.9	16102.3	15963.2	16740.7	19005.4	20703.0	19897.0	18252.9	17828.5
27.5°	21616.0	18224.3	16102.3	15966.8	16719.3	19454.8	22036.8	21787.2	20321.4	19857.8
30°	22422.0	18730.8	16334.1	16180.8	16983.2	19715.1	22750.1	23467.0	21876.3	21302.2
32.5°	23142.4	19433.4	16787.1	16498.2	17536.0	20100.3	23388.5	24893.5	23113.9	22728.7
35°	23805.8	20185.9	17411.2	17076.0	18263.6	20628.1	24094.6	26391.4	24836.5	24255.1
37.5°	24536.9	21059.6	18384.8	18099.5	19479.7	21655.2	24932.8	28360.1	26530.5	25799.4
40°	25332.2	22072.5	19986.1	19864.9	21412.7	22817.9	25992.0	30460.7	28463.5	27632.5
42.5°	26141.8	23238.7	21947.7	22147.4	23602.5	24447.7	27079.7	32076.3	30047.0	29130.4
45°	26876.4	24729.5	24497.7	25485.5	26156.0	26038.3	27885.7	33214.0	31427.2	30549.8
47.5°	27803.7	26901.4	27582.6	29105.5	29123.3	27768.0	28495.6	34144.8	32614.8	31737.5
50°	28841.5	29465.7	31566.3	33117.7	32700.4	29469.2	29208.9	35246.8	33841.6	33139.1
52.5°	30043.4	32336.6	35246.8	36969.4	35995.7	31323.8	30396.5	36438.0	35788.9	35114.8
55°	31441.4	34294.6	38916.6	40289.7	39308.9	33627.7	32201.1	38053.6	37989.4	37529.3
57.5°	33021.4	36363.1	41042.2	42900.3	42026.5	36331.0	34722.5	39576.4	39333.9	39077.1
59°	34269.6	37425.9	41980.2	43906.0	43378.2	38224.8	36416.6	40525.1	39644.2	39259.0
60°	35025.7	38146.3	42326.1	44041.6	43920.3	39351.7	37490.1	40988.7	39640.6	39105.7
62.5°	37269.0	39405.2	42194.2	43438.8	43913.2	41513.0	40639.2	41498.7	38905.9	38121.3
65°	38067.8	38988.0	40008.0	39854.6	40261.2	41402.4	42650.7	40938.8	37336.7	36220.4
67.5°	36512.9	34412.3	34772.5	33748.9	33549.2	36808.9	41834.0	38199.8	34266.0	32900.1
70°	30778.1	26362.9	26181.0	26651.8	25360.7	29800.9	37565.0	32925.1	29198.2	27650.4
72.5°	24226.6	18630.9	17097.4	18830.6	18791.4	22735.8	31206.1	23363.5	19725.8	19593.8
75°	19051.7	12971.0	11384.0	11665.7	12207.8	16459.0	24854.3	14836.3	12147.2	11070.1
77.5°	12789.1	9190.6	8573.6	8227.7	8812.6	10567.3	15724.3	8045.8	6811.8	6451.6
80°	7371.8	6676.3	7582.2	6883.2	7197.0	6658.5	7821.1	3691.2	3063.5	3316.8
82.5°	4796.8	3801.8	4051.4	3010.0	4115.6	4151.3	2510.8	1091.3	923.7	980.8
85°	2999.3	1783.2	1002.2	713.3	1419.4	2610.6	784.6	67.8	78.5	67.8
87.5°	777.5	296.0	124.8	185.5	228.3	203.3	181.9	10.7	3.6	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)