

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: P459513

Luminaire Tested: **GALN-SA9C-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459513
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-SA9C-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA 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: 42638 lumens
Efficiency: N/A
Efficacy: 88.6 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

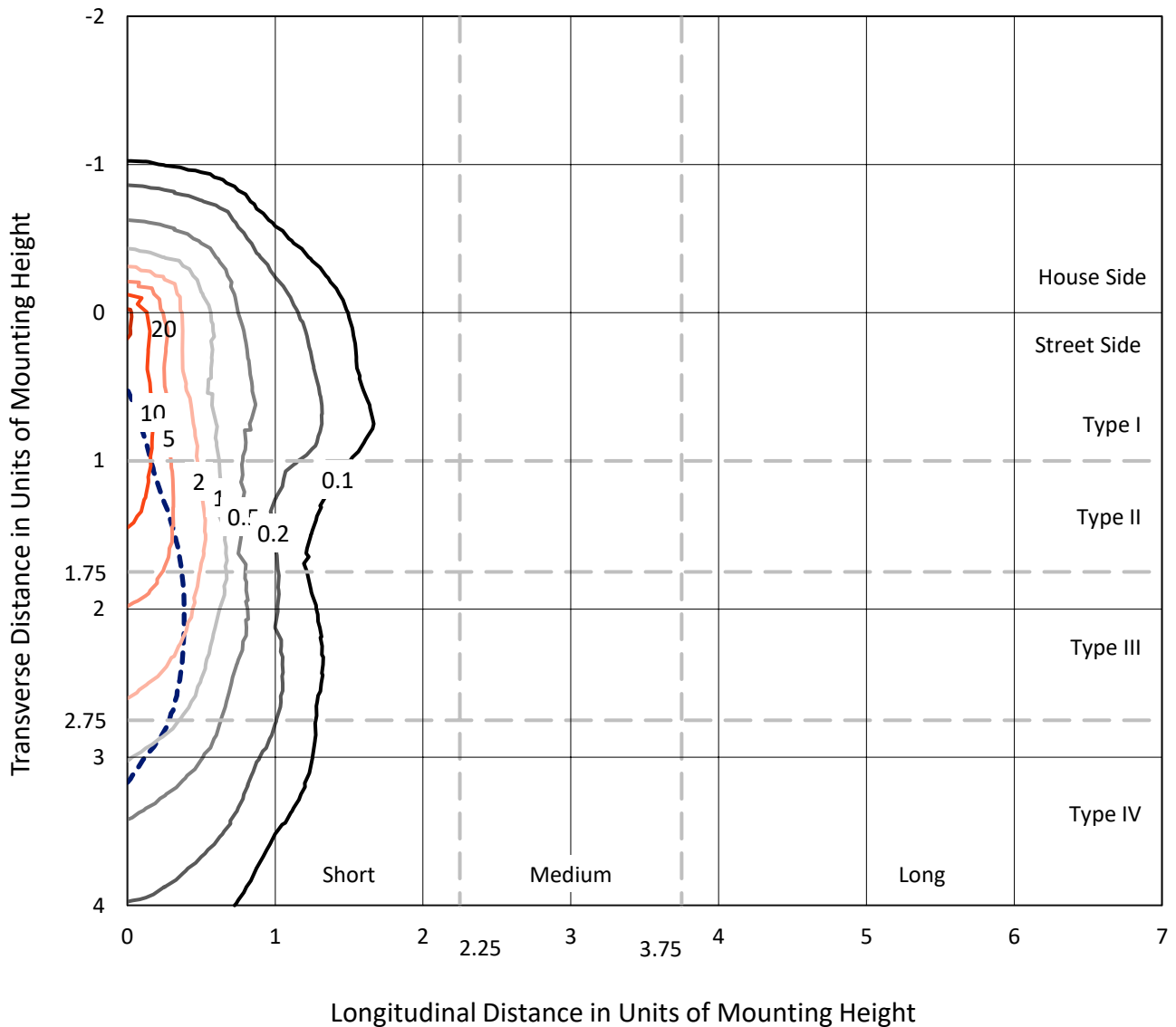
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

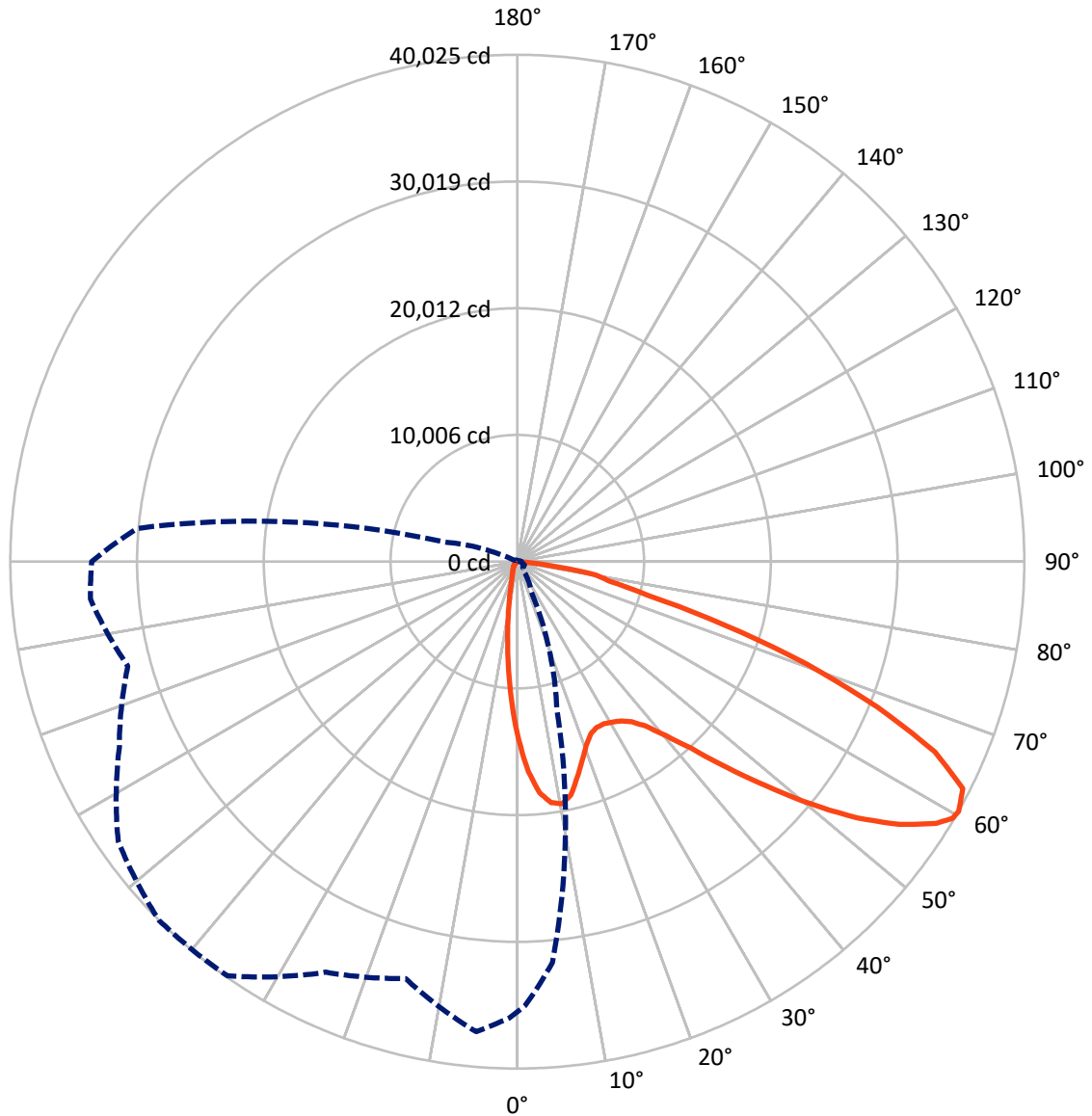
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 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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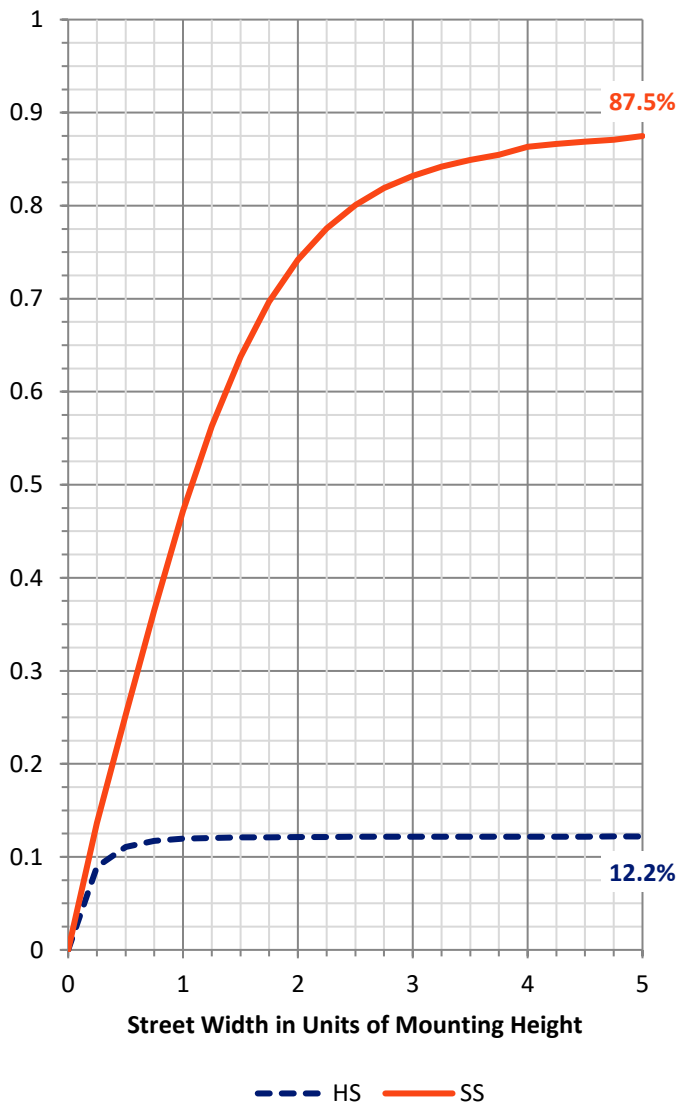
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5259.0	0.0	5259.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	37379.0	0.0	37379.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	42638.0	0.0	42638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1048.2	2.5
10°-20°	2081.6	4.9
20°-30°	3052.2	7.2
30°-40°	4539.2	10.6
40°-50°	6606.0	15.5
50°-60°	9526.3	22.3
60°-70°	10477.9	24.6
70°-80°	4693.3	11.0
80°-90°	613.2	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°	42638.0	100.0
0°-180°	42638.0	100.0

Coefficient of Utilization



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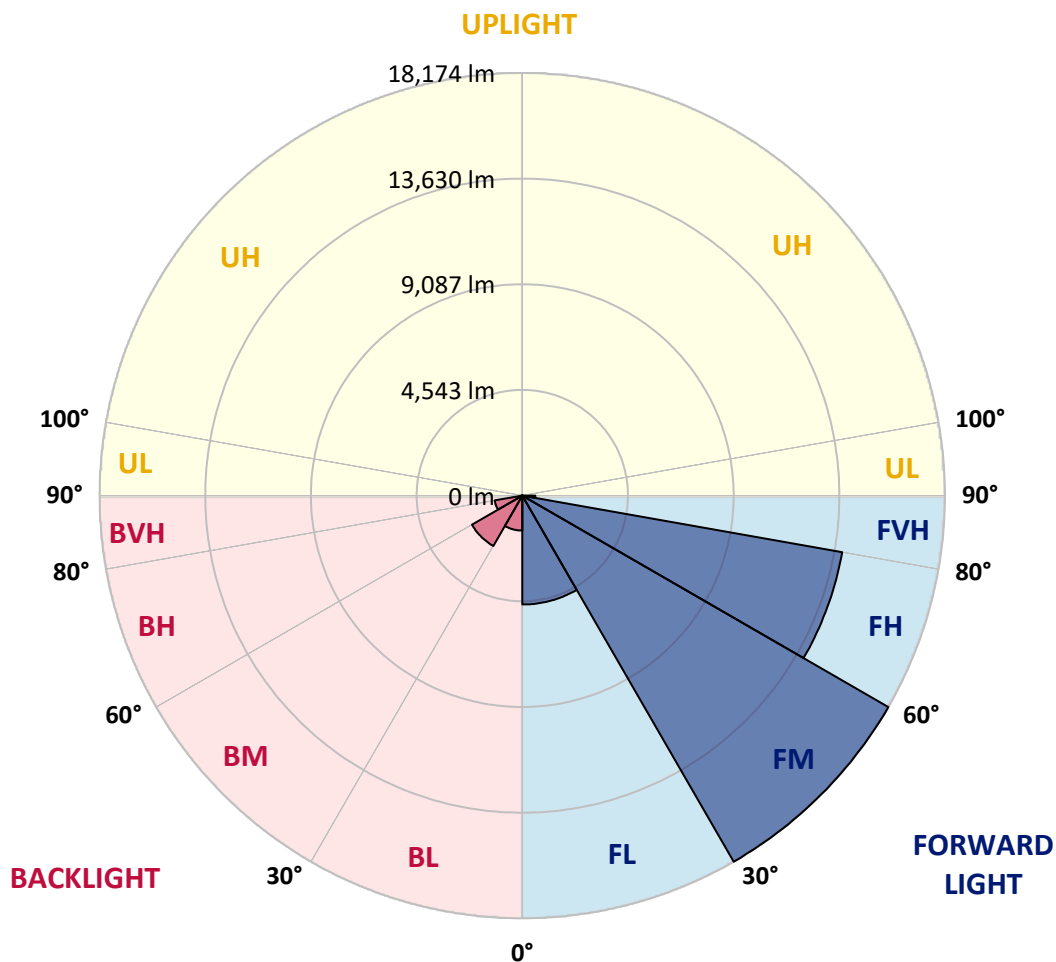
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4679.4	11.0			
FM	(30°-60°)	18173.6	42.6			
FH	(60°-80°)	13965.2	32.8			G5
FVH	(80°-90°)	560.8	1.3			G4/750
BL	(0°-30°)	1502.7	3.5	B3/2500		
BM	(30°-60°)	2497.9	5.9	B2/2500		
BH	(60°-80°)	1206.0	2.8	B3/2500		G3/2500
BVH	(80°-90°)	52.4	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°	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5
2.5°	15492.6	15424.6	15269.0	14795.8	14384.2	13846.1	13301.6	12873.8	12611.3	12128.3	11907.9
5°	15009.7	15042.1	14591.6	13619.3	12536.7	11797.7	10990.7	10349.0	9642.4	9195.1	8725.1
7.5°	13748.9	13684.1	13194.7	11839.9	10524.0	9454.4	8433.4	7603.7	7081.9	6663.8	6313.7
10°	12669.6	12621.0	11995.5	10251.7	8838.6	8038.0	7347.7	6621.6	6060.9	5448.4	4958.9
12.5°	11992.2	11882.0	11162.5	9341.0	8190.4	7444.9	6693.0	5937.8	5163.1	4544.1	3950.9
15°	11765.3	11606.5	10806.0	9026.6	7775.5	6829.1	5885.9	5017.3	4126.0	3442.1	2994.8
17.5°	12177.0	11914.4	11062.0	8971.5	7279.6	6025.3	4864.9	3733.8	2806.8	2285.0	2009.5
20°	13120.1	12818.7	11710.2	8916.4	6728.6	5124.2	3698.1	2638.3	1941.4	1656.2	1503.9
22.5°	14520.3	14105.4	12669.6	9003.9	6219.7	4245.9	2670.7	1863.7	1542.8	1364.5	1257.6
25°	16202.4	15855.6	13885.0	9315.0	5817.8	3555.5	2064.6	1523.3	1299.7	1189.5	1108.5
27.5°	18046.7	17492.4	15457.0	9687.8	5451.6	3020.7	1811.8	1361.3	1157.1	1056.6	1014.5
30°	19359.3	18928.2	16772.9	9947.1	4994.6	2618.8	1656.2	1341.8	1160.3	1040.4	962.6
32.5°	20655.8	20104.8	17874.9	10067.0	4660.8	2340.1	1432.6	1170.1	1017.7	956.1	878.3
35°	22043.0	21466.1	18973.6	10002.2	4411.2	2155.4	1299.7	1043.6	871.9	768.1	690.4
37.5°	23446.4	22837.1	20065.9	9768.8	4255.6	2080.8	1196.0	991.8	823.2	716.3	632.0
40°	25112.3	24298.8	21090.1	9577.6	4093.6	2041.9	1127.9	959.4	787.6	674.2	589.9
42.5°	26473.6	25699.0	22059.2	9477.1	3983.4	1951.2	1127.9	933.4	764.9	638.5	551.0
45°	27763.6	26959.8	23106.1	9558.1	3938.0	1837.7	1140.9	930.2	748.7	612.6	525.1
47.5°	28842.9	28146.0	24182.1	9862.8	3879.6	1714.6	1072.8	975.6	739.0	589.9	499.1
50°	30116.7	29442.5	25605.0	10478.6	3775.9	1591.4	988.5	1050.1	735.7	570.4	476.4
52.5°	31912.2	31183.0	27569.1	11178.7	3610.6	1403.4	910.8	1040.4	722.8	538.0	453.8
55°	34106.5	33516.6	29844.4	12018.1	3383.7	1192.7	787.6	923.7	683.9	482.9	414.9
57.5°	35513.2	35010.8	31549.2	12381.1	3036.9	975.6	693.6	774.6	625.5	431.1	369.5
59°	35678.4	35224.7	31905.8	12261.2	2810.1	891.3	648.2	664.4	609.3	401.9	343.6
60°	35539.1	35069.1	31763.2	12027.9	2599.4	833.0	609.3	589.9	612.6	385.7	324.1
62.5°	34644.5	33840.7	30379.2	10844.8	2272.0	764.9	541.3	482.9	541.3	346.8	288.5
65°	32917.0	31711.3	27640.4	9178.9	2142.4	726.0	460.2	405.1	411.6	304.7	249.6
67.5°	29899.5	28379.4	23994.1	7457.9	2087.3	729.3	388.9	363.0	317.6	259.3	220.4
70°	25128.5	23611.7	19252.4	6135.5	2061.4	729.3	330.6	311.1	265.8	217.2	191.2
72.5°	17806.8	16173.3	12987.2	4819.6	1857.2	726.0	282.0	282.0	217.2	181.5	155.6
75°	10060.5	10073.5	8164.4	3409.7	1542.8	599.6	226.9	223.6	158.8	139.4	116.7
77.5°	5863.2	5759.5	5503.5	1465.0	716.3	272.3	158.8	136.1	110.2	100.5	84.3
80°	3014.3	2479.5	2414.6	531.5	256.0	171.8	110.2	77.8	71.3	64.8	58.3
82.5°	891.3	894.6	797.3	213.9	142.6	113.4	55.1	42.1	38.9	35.7	35.7
85°	61.6	38.9	45.4	64.8	87.5	45.4	3.2	9.7	9.7	13.0	16.2
87.5°	6.5	3.2	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°	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5
2.5°	11664.9	11807.5	11541.7	11548.2	11327.8	11399.1	11139.8	11224.1	11071.7	11188.4	11532.0
5°	8777.0	8809.4	8595.5	8527.4	8559.8	8692.7	8744.6	8508.0	8608.5	8410.8	8397.8
7.5°	6184.1	6223.0	6099.8	6083.6	6317.0	6261.9	6362.4	6119.3	5889.1	5989.6	5804.9
10°	4803.4	4641.3	4388.5	4317.2	4271.8	4301.0	4301.0	4080.6	4048.2	3960.7	4093.6
12.5°	3792.1	3594.4	3354.6	3030.5	2949.4	2943.0	2823.0	2628.6	2567.0	2492.4	2602.6
15°	2755.0	2673.9	2473.0	2291.5	2106.7	2071.1	1876.6	1717.8	1507.1	1478.0	1468.2
17.5°	1938.2	1818.3	1815.0	1711.3	1604.4	1533.1	1351.6	1170.1	1089.0	1079.3	1079.3
20°	1452.0	1409.9	1341.8	1328.9	1296.5	1215.4	1053.4	956.1	917.2	920.5	933.4
22.5°	1221.9	1192.7	1131.2	1102.0	1089.0	1017.7	897.8	833.0	813.5	813.5	816.8
25°	1092.3	1066.3	998.3	952.9	936.7	884.8	790.8	742.2	726.0	726.0	726.0
27.5°	995.0	962.6	891.3	852.4	823.2	764.9	706.6	658.0	641.7	641.7	645.0
30°	927.0	891.3	826.5	774.6	729.3	677.4	628.8	586.6	567.2	564.0	567.2
32.5°	836.2	803.8	739.0	706.6	654.7	593.1	554.2	515.3	495.9	499.1	495.9
35°	651.5	641.7	596.4	606.1	576.9	525.1	489.4	447.3	424.6	421.3	427.8
37.5°	593.1	554.2	502.4	505.6	495.9	476.4	418.1	372.7	356.5	356.5	359.8
40°	547.8	508.9	450.5	421.3	424.6	424.6	363.0	314.4	298.2	294.9	301.4
42.5°	508.9	470.0	405.1	356.5	343.6	359.8	307.9	259.3	243.1	236.6	243.1
45°	482.9	440.8	366.2	311.1	272.3	291.7	252.8	213.9	194.5	194.5	191.2
47.5°	457.0	418.1	337.1	269.0	226.9	217.2	207.4	171.8	152.3	149.1	152.3
50°	434.3	395.4	304.7	233.4	191.2	168.5	168.5	136.1	123.2	116.7	119.9
52.5°	411.6	369.5	275.5	207.4	165.3	136.1	119.9	110.2	100.5	97.2	100.5
55°	379.2	337.1	246.3	178.3	142.6	113.4	94.0	90.8	84.3	77.8	84.3
57.5°	340.3	301.4	217.2	152.3	113.4	87.5	77.8	74.5	68.1	64.8	64.8
59°	317.6	282.0	201.0	132.9	100.5	77.8	71.3	68.1	61.6	55.1	58.3
60°	304.7	275.5	191.2	123.2	90.8	71.3	64.8	61.6	55.1	51.9	55.1
62.5°	269.0	246.3	168.5	100.5	71.3	51.9	45.4	48.6	45.4	42.1	45.4
65°	236.6	217.2	142.6	77.8	55.1	35.7	32.4	42.1	38.9	35.7	38.9
67.5°	210.7	188.0	119.9	58.3	38.9	19.4	22.7	35.7	35.7	32.4	35.7
70°	181.5	162.1	97.2	42.1	19.4	9.7	16.2	25.9	32.4	29.2	32.4
72.5°	149.1	126.4	74.5	29.2	9.7	0.0	9.7	22.7	32.4	29.2	32.4
75°	116.7	94.0	55.1	16.2	0.0	0.0	3.2	19.4	32.4	29.2	32.4
77.5°	84.3	68.1	32.4	3.2	0.0	0.0	3.2	19.4	32.4	29.2	32.4
80°	55.1	48.6	13.0	0.0	0.0	0.0	3.2	19.4	32.4	32.4	35.7
82.5°	35.7	25.9	0.0	0.0	0.0	0.0	6.5	25.9	35.7	38.9	38.9
85°	16.2	0.0	0.0	0.0	0.0	0.0	13.0	32.4	42.1	42.1	42.1
87.5°	0.0	0.0	0.0	0.0	0.0	6.5	22.7	38.9	48.6	48.6	48.6
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°	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5
2.5°	11590.3	11794.5	12083.0	12527.0	12886.8	13454.0	13888.3	14481.4	15081.0	15262.5	15544.5
5°	8530.7	8793.2	9447.9	10044.3	10420.3	11619.5	12377.9	13573.9	14646.7	15162.0	15722.8
7.5°	5924.8	6235.9	6735.1	7568.1	8358.9	9334.5	10559.6	11927.4	13499.3	14235.1	15025.9
10°	4158.4	4547.3	5250.6	5934.5	6929.6	7856.5	9065.5	10575.8	12309.8	13178.5	14170.3
12.5°	2625.3	2972.1	3902.3	4670.5	5911.8	6987.9	8102.8	9470.6	11480.1	12371.4	13411.8
15°	1500.6	1792.3	2226.7	3212.0	4589.5	6012.3	7402.8	8990.9	11055.5	12154.3	13278.9
17.5°	1118.2	1196.0	1390.4	1947.9	3202.2	4864.9	6757.8	8845.1	11344.0	12634.0	13917.4
20°	939.9	991.8	1082.5	1302.9	2041.9	3746.8	6129.0	8871.0	12277.4	13898.0	15116.7
22.5°	842.7	875.1	949.7	1092.3	1393.7	2729.0	5393.3	9023.3	13408.6	15450.5	16857.2
25°	739.0	781.1	845.9	969.1	1160.3	1892.8	4667.2	9363.6	14993.5	17421.1	18743.5
27.5°	658.0	696.8	761.7	875.1	1017.7	1445.5	3821.3	9655.4	16665.9	19404.7	20487.2
30°	576.9	615.8	680.6	771.4	901.0	1170.1	2910.5	9827.1	18289.7	20892.4	21725.3
32.5°	508.9	541.3	602.9	683.9	790.8	991.8	2294.7	9648.9	19531.1	22243.9	22801.4
35°	440.8	479.7	531.5	606.1	700.1	845.9	1909.0	9033.1	20597.4	23634.4	23835.3
37.5°	369.5	414.9	470.0	538.0	612.6	777.9	1533.1	8352.4	21738.3	25368.4	25037.8
40°	311.1	353.3	405.1	479.7	547.8	713.1	1179.8	7626.4	22969.9	26995.4	26350.5
42.5°	252.8	298.2	359.8	427.8	541.3	622.3	914.0	6874.5	24075.2	28411.8	27536.7
45°	201.0	239.8	304.7	392.2	538.0	534.8	706.6	6132.2	24908.1	29423.1	28421.5
47.5°	158.8	191.2	256.0	382.5	495.9	453.8	567.2	5672.0	25783.3	30333.8	29098.9
50°	126.4	158.8	220.4	398.7	434.3	388.9	476.4	5746.5	26629.2	30797.3	29377.7
52.5°	107.0	139.4	191.2	314.4	333.8	340.3	418.1	6090.1	27721.5	31293.2	29931.9
55°	94.0	123.2	162.1	220.4	259.3	304.7	382.5	6339.7	29183.2	32356.3	31153.8
57.5°	74.5	107.0	145.9	188.0	213.9	265.8	353.3	6359.1	30505.6	33720.8	32777.6
59°	68.1	97.2	136.1	178.3	191.2	239.8	333.8	6193.8	30554.2	33925.0	33523.1
60°	61.6	94.0	129.6	165.3	181.5	226.9	317.6	6002.6	30113.4	33600.9	33831.0
62.5°	51.9	81.0	113.4	132.9	155.6	188.0	275.5	5309.0	27977.5	32132.6	33260.6
65°	45.4	71.3	97.2	110.2	129.6	162.1	243.1	4249.1	25618.0	30142.6	31627.0
67.5°	42.1	64.8	84.3	94.0	113.4	149.1	217.2	3001.3	22561.6	27617.7	29173.5
70°	38.9	61.6	74.5	87.5	100.5	126.4	184.7	1750.2	17379.0	23190.3	24833.6
72.5°	38.9	58.3	64.8	74.5	87.5	113.4	171.8	946.4	11882.0	17690.1	19813.1
75°	38.9	55.1	58.3	64.8	77.8	103.7	152.3	495.9	7681.5	12290.4	15168.5
77.5°	38.9	51.9	58.3	61.6	74.5	90.8	132.9	311.1	5117.8	8608.5	10251.7
80°	42.1	51.9	55.1	61.6	71.3	84.3	110.2	207.4	3007.8	5179.3	6239.2
82.5°	45.4	51.9	58.3	64.8	74.5	81.0	97.2	129.6	1387.2	3425.9	3876.4
85°	48.6	55.1	61.6	68.1	77.8	81.0	90.8	94.0	226.9	1546.0	2090.5
87.5°	51.9	58.3	64.8	71.3	84.3	84.3	84.3	84.3	77.8	165.3	421.3
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: P459513

CATALOG NUMBER: GALN-SA9C-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5	14092.5
2.5°	15901.0	16267.3	16523.3	16588.1	16403.4	16319.1	16085.8	15722.8	15502.4	15492.6
5°	16756.7	17615.6	18212.0	18312.4	17955.9	17353.1	16636.8	15713.0	15171.8	15009.7
7.5°	16610.8	18114.7	19074.1	19213.5	18613.9	17463.3	16076.0	14588.4	13998.5	13748.9
10°	16011.2	17845.7	19216.7	19437.1	18636.5	17016.0	15252.8	13593.3	12860.8	12669.6
12.5°	15499.1	17353.1	18571.7	18876.4	18270.3	16653.0	14760.1	12954.8	12170.5	11992.2
15°	15275.5	16769.6	17515.1	17670.7	17570.2	16426.1	14708.3	12857.6	11959.8	11765.3
17.5°	15499.1	16273.8	16367.7	16526.6	16750.2	16403.4	15207.4	13385.9	12416.8	12177.0
20°	16085.8	15842.7	15453.7	15521.8	16033.9	16497.4	16095.5	14556.0	13376.2	13120.1
22.5°	17084.0	15735.7	14854.1	14795.8	15444.0	16811.8	17398.4	16140.9	14773.1	14520.3
25°	18309.2	16004.7	14633.7	14507.3	15213.9	17272.0	18814.8	18082.3	16588.1	16202.4
27.5°	19644.5	16562.2	14633.7	14510.6	15194.5	17680.4	20027.0	19800.1	18468.0	18046.7
30°	20377.0	17022.5	14844.4	14705.0	15434.3	17917.0	20675.2	21326.7	19881.1	19359.3
32.5°	21031.7	17661.0	15256.0	14993.5	15936.7	18267.1	21255.4	22623.1	21005.8	20655.8
35°	21634.6	18344.8	15823.2	15518.6	16597.9	18746.7	21897.1	23984.4	22571.3	22043.0
37.5°	22299.0	19138.9	16708.1	16448.8	17703.1	19680.2	22658.8	25773.5	24110.8	23446.4
40°	23021.8	20059.4	18163.3	18053.1	19459.8	20736.8	23621.4	27682.6	25867.5	25112.3
42.5°	23757.5	21119.3	19946.0	20127.5	21449.9	22218.0	24610.0	29150.8	27306.6	26473.6
45°	24425.2	22474.1	22263.4	23161.2	23770.5	23663.5	25342.5	30184.7	28560.9	27763.6
47.5°	25267.9	24447.9	25067.0	26450.9	26467.1	25235.5	25896.7	31030.7	29640.2	28842.9
50°	26211.1	26778.3	28687.3	30097.2	29718.0	26781.5	26544.9	32032.2	30755.2	30116.7
52.5°	27303.3	29387.4	32032.2	33597.6	32712.8	28466.9	27624.2	33114.7	32524.8	31912.2
55°	28573.9	31166.8	35367.3	36615.1	35723.8	30560.7	29264.2	34582.9	34524.6	34106.5
57.5°	30009.7	33046.6	37299.0	38987.7	38193.6	33017.5	31555.7	35966.9	35746.5	35513.2
59°	31144.1	34012.5	38151.4	39901.7	39422.0	34738.5	33095.3	36829.1	36028.5	35678.4
60°	31831.2	34667.2	38465.8	40024.8	39914.6	35762.7	34070.8	37250.4	36025.2	35539.1
62.5°	33869.9	35811.3	38345.9	39477.1	39908.1	37726.8	36932.8	37713.9	35357.6	34644.5
65°	34595.9	35432.1	36359.1	36219.7	36589.2	37626.4	38760.8	37205.0	33931.5	32917.0
67.5°	33182.8	31273.7	31601.1	30670.9	30489.4	33451.8	38018.5	34715.8	31140.9	29899.5
70°	27971.0	23958.5	23793.2	24221.0	23047.7	27082.9	34138.9	29922.2	26535.2	25128.5
72.5°	22017.1	16931.7	15538.0	17113.2	17077.6	20662.3	28360.0	21232.7	17926.7	17806.8
75°	17314.2	11788.0	10345.7	10601.8	11094.4	14957.9	22587.5	13483.1	11039.3	10060.5
77.5°	11622.7	8352.4	7791.7	7477.3	8008.9	9603.5	14290.2	7312.0	6190.6	5863.2
80°	6699.4	6067.4	6890.7	6255.4	6540.6	6051.2	7107.8	3354.6	2784.1	3014.3
82.5°	4359.3	3455.1	3681.9	2735.5	3740.3	3772.7	2281.8	991.8	839.5	891.3
85°	2725.8	1620.6	910.8	648.2	1290.0	2372.5	713.1	61.6	71.3	61.6
87.5°	706.6	269.0	113.4	168.5	207.4	184.7	165.3	9.7	3.2	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)