

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: P534087

Luminaire Tested: **GALN-SA9C-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534087
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-SA9C-740-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA 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: 35235 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

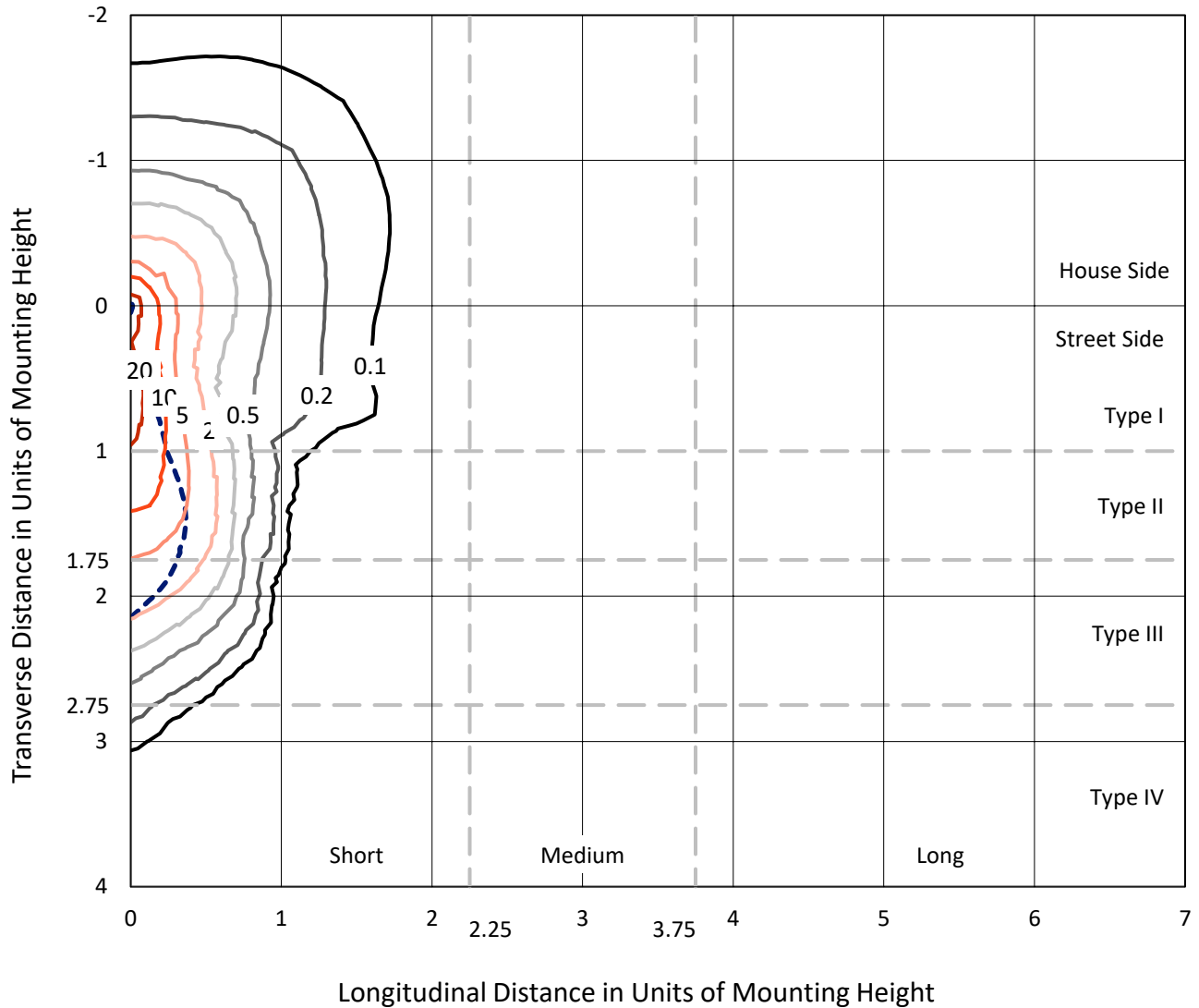
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

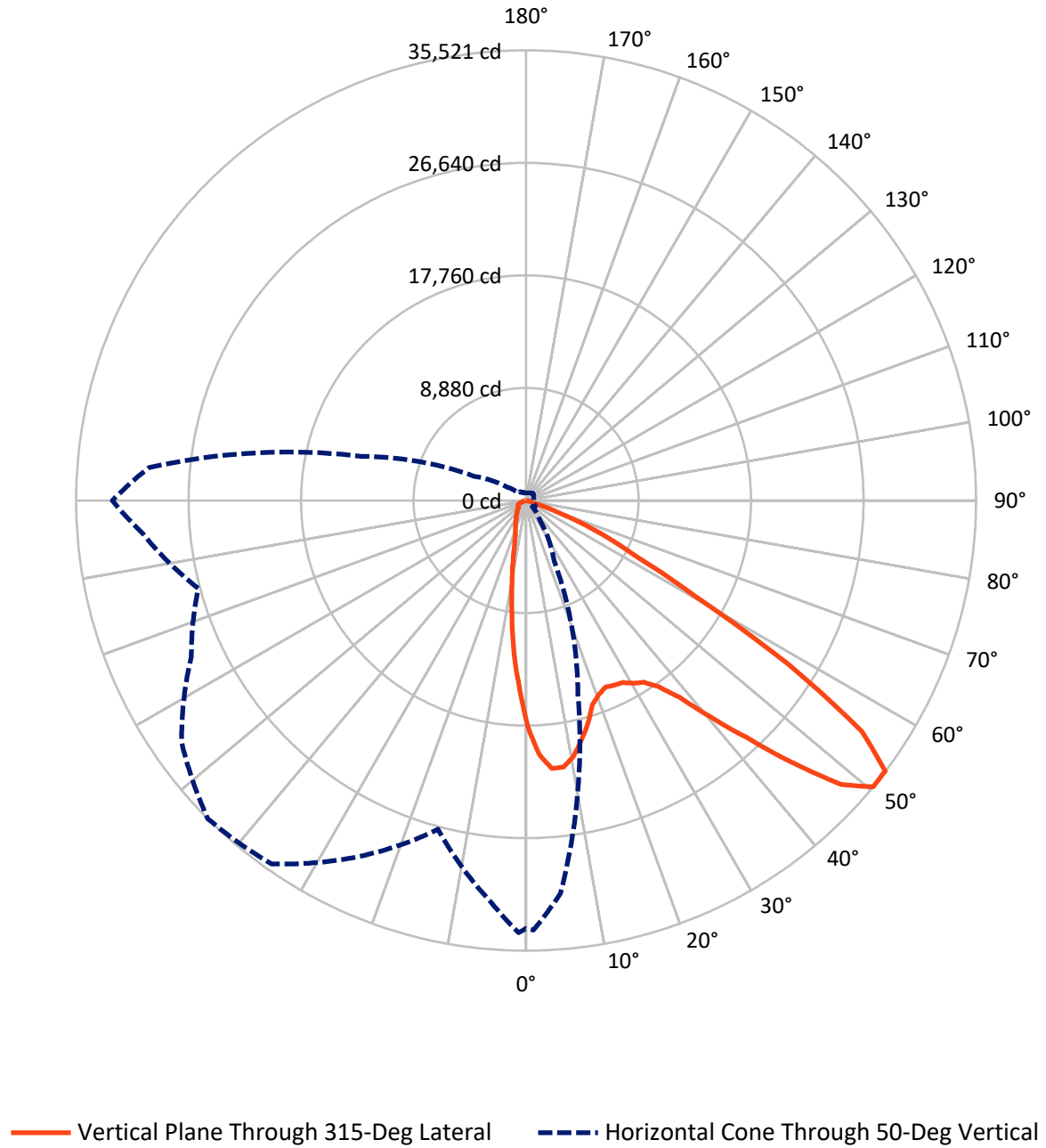
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 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	7057.6	0.0	7057.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	28177.4	0.0	28177.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	35235.0	0.0	35235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1302.4	3.7
10°-20°	2588.5	7.3
20°-30°	3888.7	11.0
30°-40°	5836.9	16.6
40°-50°	8203.4	23.3
50°-60°	8848.8	25.1
60°-70°	4108.5	11.7
70°-80°	386.6	1.1
80°-90°	71.3	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°	35235.0	100.0
0°-180°	35235.0	100.0

Coefficient of Utilization



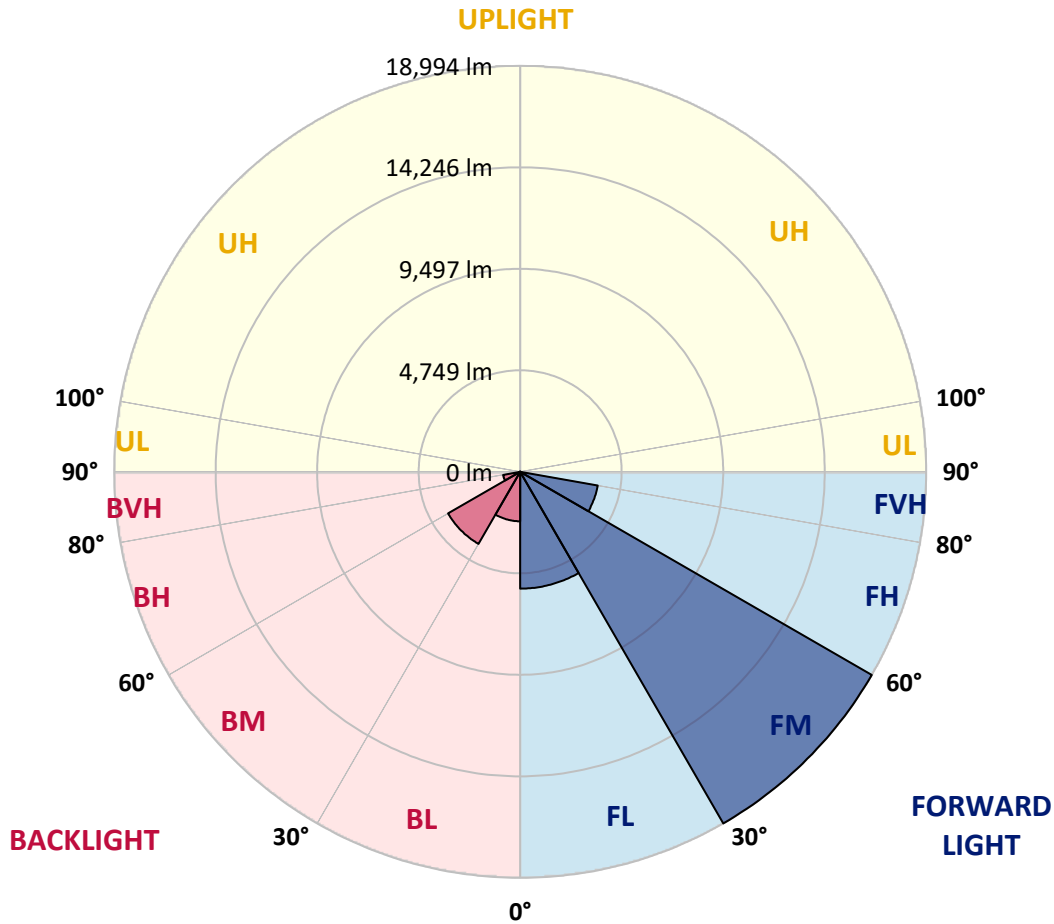
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5466.4	15.5			
FM (30°-60°)	18994.3	53.9			
FH (60°-80°)	3684.6	10.5			G2/5000
FVH (80°-90°)	32.1	0.1			G1/100
BL (0°-30°)	2313.3	6.6	B3/2500		
BM (30°-60°)	3894.7	11.1	B3/5000		
BH (60°-80°)	810.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	39.2	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°	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6
2.5°	18574.7	18288.0	17924.5	17623.9	17176.5	16274.7	16030.0	15736.4	15491.7	15163.1	14701.7
5°	16889.9	16799.0	16631.2	15498.7	14680.8	13590.2	12695.4	12317.9	11821.5	11416.0	11122.4
7.5°	15603.6	15240.0	14708.7	13569.2	12261.9	11094.5	10101.8	9521.5	8864.4	8640.7	8242.2
10°	14226.4	14310.2	13527.3	11926.4	10346.4	9402.7	8787.5	8228.2	7634.0	7242.5	6676.3
12.5°	13785.9	13513.3	12912.1	10933.7	9584.4	8703.6	7955.6	7263.5	6634.3	6005.1	5459.8
15°	14072.6	13653.1	12814.2	10723.9	8997.2	7899.6	6962.9	6026.1	5445.9	4641.9	4075.7
17.5°	15100.2	14764.7	13639.1	10947.7	8696.6	7130.7	5739.5	4774.7	3886.9	3159.9	2873.2
20°	16813.0	16337.6	14925.4	11234.3	8249.2	6200.9	4655.9	3467.5	2628.6	2321.0	2160.2
22.5°	18490.8	18232.1	16449.4	11786.6	7850.7	5376.0	3495.4	2334.9	1964.4	1908.5	1803.6
25°	21685.6	20909.6	18777.4	12786.2	7543.1	4600.0	2635.5	1880.5	1663.8	1621.9	1635.9
27.5°	23587.1	22936.9	20930.6	13450.4	7200.6	4005.8	2230.1	1726.7	1579.9	1489.0	1454.1
30°	25411.7	24656.7	22000.2	13841.9	6466.5	3376.6	1978.4	1656.8	1621.9	1489.0	1447.1
32.5°	26816.9	26075.8	23545.1	14429.1	6165.9	2971.1	1628.9	1293.3	1202.4	1188.4	1314.3
35°	28970.0	28180.1	24866.4	14750.7	5935.2	2761.4	1412.1	1153.5	1048.6	1006.7	1013.7
37.5°	30976.4	30438.1	26089.8	14876.5	5690.5	2698.5	1265.3	1034.6	943.8	915.8	908.8
40°	32654.2	31451.8	27250.3	15009.3	5585.7	2579.6	1174.5	943.8	880.8	838.9	838.9
42.5°	33423.2	32199.8	28550.6	14932.4	5557.7	2390.9	1174.5	866.9	817.9	776.0	769.0
45°	33255.4	32759.1	29130.8	14897.5	5557.7	2202.1	1069.6	845.9	776.0	720.1	706.1
47.5°	33688.9	33038.7	29857.9	15044.3	5445.9	2069.3	901.8	887.8	734.0	664.1	650.1
50°	33765.8	33891.6	31123.2	15806.3	5201.2	1901.5	706.1	873.9	706.1	601.2	587.2
52°	34269.1	33486.1	31507.7	16211.8	4942.5	1775.7	594.2	748.0	678.1	559.3	545.3
52.5°	33577.0	34087.3	31598.6	16358.6	4970.5	1691.8	573.2	734.0	664.1	559.3	524.3
55°	32801.0	33290.4	31228.1	16673.2	4558.0	1328.3	447.4	531.3	601.2	489.4	468.4
57.5°	28508.6	29005.0	27138.4	15268.0	3712.1	936.8	370.5	398.5	531.3	454.4	433.4
60°	25341.8	24985.3	22776.2	12737.3	2635.5	524.3	293.6	307.6	580.2	419.5	412.5
62.5°	23160.7	22398.7	19036.1	9836.1	1607.9	349.5	230.7	237.7	447.4	391.5	391.5
65°	17134.5	16281.7	12646.4	5949.2	790.0	244.7	174.8	188.8	279.6	335.6	335.6
67.5°	9780.2	9451.6	6110.0	2684.5	328.6	153.8	132.8	146.8	216.7	272.6	258.7
70°	4495.1	4033.7	2348.9	566.3	153.8	104.9	104.9	118.8	174.8	202.7	188.8
72.5°	1314.3	1244.4	573.2	90.9	62.9	62.9	69.9	90.9	132.8	153.8	139.8
75°	97.9	62.9	41.9	28.0	28.0	41.9	55.9	90.9	132.8	146.8	118.8
77.5°	7.0	14.0	7.0	7.0	21.0	41.9	62.9	111.9	174.8	181.8	132.8
80°	7.0	7.0	0.0	7.0	21.0	41.9	69.9	125.8	195.7	209.7	111.9
82.5°	0.0	0.0	0.0	7.0	28.0	55.9	83.9	132.8	181.8	223.7	118.8
85°	0.0	0.0	0.0	7.0	41.9	76.9	97.9	35.0	21.0	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°	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6
2.5°	15030.3	14848.5	14778.6	14841.6	14820.6	14799.6	15184.1	15100.2	15086.2	15212.1	15184.1
5°	11283.2	10961.6	11842.5	11485.9	11856.5	12080.2	12122.1	12143.1	12401.7	12129.1	12485.6
7.5°	8039.5	8123.4	8116.4	8354.1	8780.5	9158.0	9381.7	9206.9	9193.0	9158.0	9004.2
10°	6424.6	6277.8	6249.8	6193.9	6326.7	6648.3	6920.9	6704.2	6550.4	6760.1	6697.2
12.5°	5250.1	5047.4	4935.5	4711.8	4718.8	4935.5	4935.5	4935.5	5089.3	5208.2	5299.1
15°	4026.7	3858.9	3858.9	3635.2	3586.3	3593.3	3705.1	3719.1	3963.8	4033.7	4068.7
17.5°	2817.3	2726.4	2831.3	2922.2	2866.2	2880.2	2922.2	2936.2	2971.1	2943.1	3013.1
20°	2167.2	2153.2	2181.1	2341.9	2460.8	2530.7	2481.7	2411.8	2369.9	2272.0	2272.0
22.5°	1838.6	1866.6	1915.5	2048.3	2202.1	2244.1	2188.1	2027.3	1901.5	1887.5	1894.5
25°	1635.9	1663.8	1740.7	1824.6	1908.5	1978.4	1922.5	1803.6	1733.7	1670.8	1670.8
27.5°	1510.0	1524.0	1565.9	1628.9	1698.8	1754.7	1733.7	1670.8	1593.9	1565.9	1503.0
30°	1412.1	1433.1	1482.1	1496.0	1559.0	1586.9	1552.0	1538.0	1489.0	1454.1	1433.1
32.5°	1363.2	1356.2	1391.2	1405.2	1412.1	1433.1	1391.2	1412.1	1405.2	1349.2	1328.3
35°	1027.7	1083.6	1174.5	1251.4	1272.3	1300.3	1293.3	1265.3	1188.4	1125.5	1048.6
37.5°	922.8	957.7	1006.7	1069.6	1153.5	1188.4	1174.5	1104.6	1013.7	971.7	957.7
40°	852.9	873.9	915.8	957.7	1041.6	1104.6	1055.6	992.7	922.8	887.8	866.9
42.5°	790.0	797.0	817.9	859.9	922.8	1020.7	936.8	852.9	824.9	803.9	790.0
45°	720.1	720.1	748.0	769.0	838.9	929.8	845.9	769.0	755.0	741.0	734.0
47.5°	664.1	671.1	685.1	713.1	769.0	831.9	776.0	713.1	678.1	671.1	657.1
50°	594.2	601.2	629.2	657.1	727.0	762.0	727.0	657.1	622.2	601.2	601.2
52°	538.3	559.3	587.2	643.2	692.1	748.0	706.1	629.2	587.2	566.3	552.3
52.5°	531.3	545.3	573.2	636.2	692.1	741.0	699.1	622.2	573.2	559.3	545.3
55°	475.4	496.3	545.3	622.2	685.1	741.0	685.1	615.2	545.3	510.3	496.3
57.5°	454.4	468.4	531.3	629.2	678.1	741.0	685.1	615.2	545.3	482.4	468.4
60°	433.4	461.4	531.3	608.2	671.1	748.0	692.1	608.2	531.3	454.4	454.4
62.5°	412.5	433.4	524.3	594.2	643.2	720.1	664.1	594.2	510.3	433.4	426.4
65°	356.5	391.5	461.4	496.3	552.3	622.2	566.3	517.3	447.4	384.5	377.5
67.5°	272.6	286.6	342.6	384.5	419.5	482.4	454.4	391.5	342.6	293.6	293.6
70°	188.8	202.7	244.7	265.7	300.6	335.6	314.6	265.7	230.7	202.7	195.7
72.5°	132.8	139.8	153.8	167.8	181.8	195.7	188.8	153.8	132.8	125.8	118.8
75°	104.9	118.8	125.8	118.8	111.9	104.9	104.9	90.9	76.9	69.9	69.9
77.5°	104.9	111.9	104.9	90.9	76.9	69.9	62.9	55.9	41.9	35.0	41.9
80°	90.9	90.9	90.9	76.9	69.9	62.9	55.9	48.9	41.9	35.0	35.0
82.5°	97.9	97.9	90.9	76.9	76.9	62.9	62.9	55.9	48.9	35.0	35.0
85°	0.0	0.0	0.0	14.0	35.0	62.9	62.9	55.9	48.9	41.9	41.9
87.5°	0.0	0.0	0.0	0.0	7.0	14.0	28.0	35.0	41.9	41.9	41.9
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°	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6
2.5°	15435.8	15701.4	16204.8	16708.1	17015.7	17379.2	18036.4	18385.9	18840.3	19064.0	19504.4
5°	12436.7	13065.9	13289.6	13862.8	14478.0	15093.2	16071.9	17148.5	18043.4	18658.6	19455.5
7.5°	9074.1	9220.9	10087.8	10472.3	11479.0	12597.5	13932.7	15289.0	16421.5	17428.2	18036.4
10°	6802.1	7340.4	7885.7	8619.7	9430.6	10584.1	11863.5	13359.5	14827.6	15834.3	16603.2
12.5°	5466.8	5893.3	6620.3	7410.3	8410.0	9172.0	10458.3	11940.4	13841.9	14827.6	15841.2
15°	4138.6	4683.9	5508.8	6326.7	7382.3	8186.3	9486.6	11353.1	13799.9	15156.1	16030.0
17.5°	3069.0	3439.5	4180.5	5096.3	6172.9	7305.4	9060.1	11290.2	14268.3	15883.2	16785.0
20°	2348.9	2474.8	2943.1	3761.1	4928.5	6410.6	8368.0	11562.8	15652.5	17651.9	18567.7
22.5°	1901.5	1957.4	2139.2	2705.5	3838.0	5627.6	8039.5	11751.6	17211.4	19770.1	20993.5
25°	1656.8	1642.8	1761.7	2006.4	2999.1	4893.6	7620.0	12464.7	19119.9	22258.8	23356.4
27.5°	1510.0	1510.0	1565.9	1740.7	2488.7	4418.2	7354.4	12975.0	21042.4	24447.0	25041.2
30°	1433.1	1447.1	1607.9	1663.8	2069.3	3852.0	6913.9	13492.3	22881.0	25845.1	26663.1
32.5°	1328.3	1272.3	1237.4	1377.2	1740.7	3341.6	6473.5	13709.0	24370.1	27557.9	28257.0
35°	1020.7	992.7	1034.6	1139.5	1496.0	2908.2	5984.2	13953.7	26082.8	29543.3	29683.1
37.5°	922.8	915.8	943.8	1034.6	1258.4	2530.7	5634.6	13890.8	27390.1	31186.1	30808.6
40°	852.9	852.9	873.9	950.8	1125.5	2265.0	5271.1	13834.9	28655.5	33031.7	31927.2
42.5°	797.0	797.0	831.9	880.8	1069.6	2090.3	4998.5	13758.0	29718.1	34164.2	32584.3
45°	720.1	741.0	797.0	845.9	1083.6	1971.4	4795.7	13464.4	30081.6	34150.3	32269.7
47.5°	664.1	692.1	748.0	817.9	978.7	1936.5	4655.9	13205.7	29955.7	33311.4	31284.0
50°	601.2	636.2	713.1	831.9	831.9	1866.6	4509.1	13436.4	29864.9	32661.2	30340.2
52°	559.3	587.2	685.1	810.9	727.0	1719.7	4418.2	13883.8	30235.4	32577.3	29920.8
52.5°	552.3	573.2	664.1	797.0	692.1	1691.8	4355.3	13988.7	30354.2	32367.6	30207.4
55°	489.4	517.3	608.2	622.2	566.3	1391.2	4152.6	14226.4	29767.0	31955.1	29934.8
57.5°	461.4	475.4	538.3	510.3	489.4	1048.6	3572.3	13855.8	26439.4	28382.8	27851.5
60°	426.4	440.4	503.3	398.5	412.5	734.0	2684.5	12031.2	21231.2	23650.0	24607.8
62.5°	412.5	405.5	475.4	321.6	349.5	531.3	1894.5	9780.2	16358.6	19469.5	21126.3
65°	363.5	356.5	342.6	272.6	300.6	412.5	1132.5	6382.6	11527.9	14729.7	15638.5
67.5°	279.6	293.6	251.7	216.7	251.7	321.6	629.2	2859.3	6047.1	8836.4	9570.5
70°	195.7	209.7	202.7	188.8	223.7	265.7	363.5	978.7	2502.7	4641.9	5117.3
72.5°	118.8	146.8	153.8	160.8	195.7	230.7	258.7	314.6	664.1	1642.8	2041.3
75°	69.9	97.9	118.8	139.8	160.8	195.7	216.7	223.7	230.7	307.6	496.3
77.5°	48.9	69.9	104.9	132.8	160.8	195.7	230.7	244.7	230.7	216.7	230.7
80°	41.9	69.9	97.9	125.8	167.8	202.7	230.7	230.7	223.7	195.7	209.7
82.5°	41.9	69.9	104.9	132.8	160.8	195.7	223.7	230.7	209.7	195.7	202.7
85°	48.9	76.9	111.9	139.8	174.8	160.8	146.8	118.8	111.9	90.9	97.9
87.5°	48.9	69.9	69.9	76.9	83.9	83.9	83.9	76.9	62.9	55.9	55.9
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: P534087

CATALOG NUMBER: GALN-SA9C-740-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6	17868.6
2.5°	19525.4	20084.7	20063.7	20077.7	19993.8	19427.5	19154.9	18462.8	18658.6	18574.7
5°	20273.4	20825.7	21301.1	21245.2	20602.0	19833.0	18693.5	17616.9	17323.3	16889.9
7.5°	19525.4	20853.7	21294.1	21231.2	20280.4	19294.7	17477.1	16400.5	15890.2	15603.6
10°	18337.0	19875.0	20420.2	20532.1	19888.9	18392.9	16722.1	14995.4	14722.7	14226.4
12.5°	17658.9	18777.4	19113.0	19413.6	19189.9	18071.3	16148.8	14492.0	14114.5	13785.9
15°	17106.6	17770.7	17910.5	18253.1	18385.9	17784.7	16449.4	15037.3	14107.5	14072.6
17.5°	17616.9	17344.3	16833.9	16938.8	17358.3	17791.7	17225.4	16113.9	15212.1	15100.2
20°	18462.8	17260.4	16106.9	16365.6	16715.1	18043.4	18399.9	17616.9	17099.6	16813.0
22.5°	19434.5	17407.2	15876.2	16002.0	16666.2	18609.6	20301.4	19868.0	18903.2	18490.8
25°	21231.2	17812.7	16058.0	16141.8	17050.7	19399.6	22021.1	22342.7	21769.5	21685.6
27.5°	22985.9	18861.3	16456.4	16267.7	17246.4	20168.6	23062.8	24789.5	23782.8	23587.1
30°	23880.7	19714.2	17050.7	16729.1	18057.3	20637.0	23692.0	26383.4	25502.6	25411.7
32.5°	25250.9	20490.2	17512.1	17099.6	18511.7	21217.2	24866.4	28124.1	27271.3	26816.9
35°	25824.2	21336.0	18525.7	18043.4	19812.0	22028.1	25467.6	29676.1	29410.5	28970.0
37.5°	26928.7	22244.9	19721.2	19693.2	21385.0	23083.8	26551.2	31787.3	31738.4	30976.4
40°	27019.6	23237.6	21608.7	22489.5	23817.8	24922.3	27502.0	32374.6	33171.5	32654.2
42.5°	27159.4	24978.3	24873.4	25600.5	26740.0	26502.3	27536.9	32514.4	33730.8	33423.2
45°	27222.3	26719.0	28194.1	29536.3	30011.7	28571.6	27208.3	32248.7	34024.4	33255.4
47.5°	26719.0	28215.0	30878.5	33472.1	33612.0	29843.9	27068.5	31976.1	34199.2	33688.9
50°	26788.9	29151.8	33199.5	35520.5	35010.1	30969.4	26851.8	31808.3	34108.3	33765.8
52°	26621.1	29172.8	33528.1	35478.5	35122.0	30347.2	26481.3	31165.2	34024.4	34269.1
52.5°	26809.9	29046.9	33185.5	35506.5	35045.1	30654.8	26432.4	31521.7	34073.4	33577.0
55°	26159.7	27550.9	31179.1	32164.9	32094.9	27823.5	24929.3	30340.2	32794.0	32801.0
57.5°	23643.0	23880.7	24454.0	24433.0	24111.4	21874.3	21322.1	27900.4	29235.7	28508.6
60°	20832.7	17484.1	15939.1	15309.9	14953.4	14589.9	18861.3	25523.6	25649.4	25341.8
62.5°	18001.4	12122.1	10066.8	9892.0	9975.9	11304.2	18232.1	24579.8	23824.8	23160.7
65°	14527.0	8836.4	7312.4	7081.7	7899.6	9332.8	14757.7	18847.3	17686.8	17134.5
67.5°	9123.0	6445.6	4942.5	4509.1	5494.8	6424.6	9696.3	11842.5	10542.2	9780.2
70°	5410.9	3600.3	2237.1	2006.4	2258.0	3425.5	5431.9	5907.3	4886.6	4495.1
72.5°	2132.2	1321.3	622.2	531.3	552.3	1202.4	1999.4	1950.4	1475.1	1314.3
75°	573.2	398.5	216.7	174.8	146.8	223.7	321.6	209.7	76.9	97.9
77.5°	265.7	237.7	188.8	146.8	111.9	83.9	41.9	14.0	14.0	7.0
80°	230.7	202.7	174.8	146.8	111.9	69.9	35.0	7.0	7.0	7.0
82.5°	216.7	188.8	160.8	132.8	104.9	69.9	35.0	7.0	0.0	0.0
85°	90.9	118.8	132.8	125.8	111.9	69.9	35.0	7.0	0.0	0.0
87.5°	48.9	41.9	35.0	28.0	21.0	14.0	14.0	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

(END OF REPORT)