

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: P534059

Luminaire Tested: **GALN-SA9C-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32823 lumens
Efficiency: N/A
Efficacy: 68.2 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

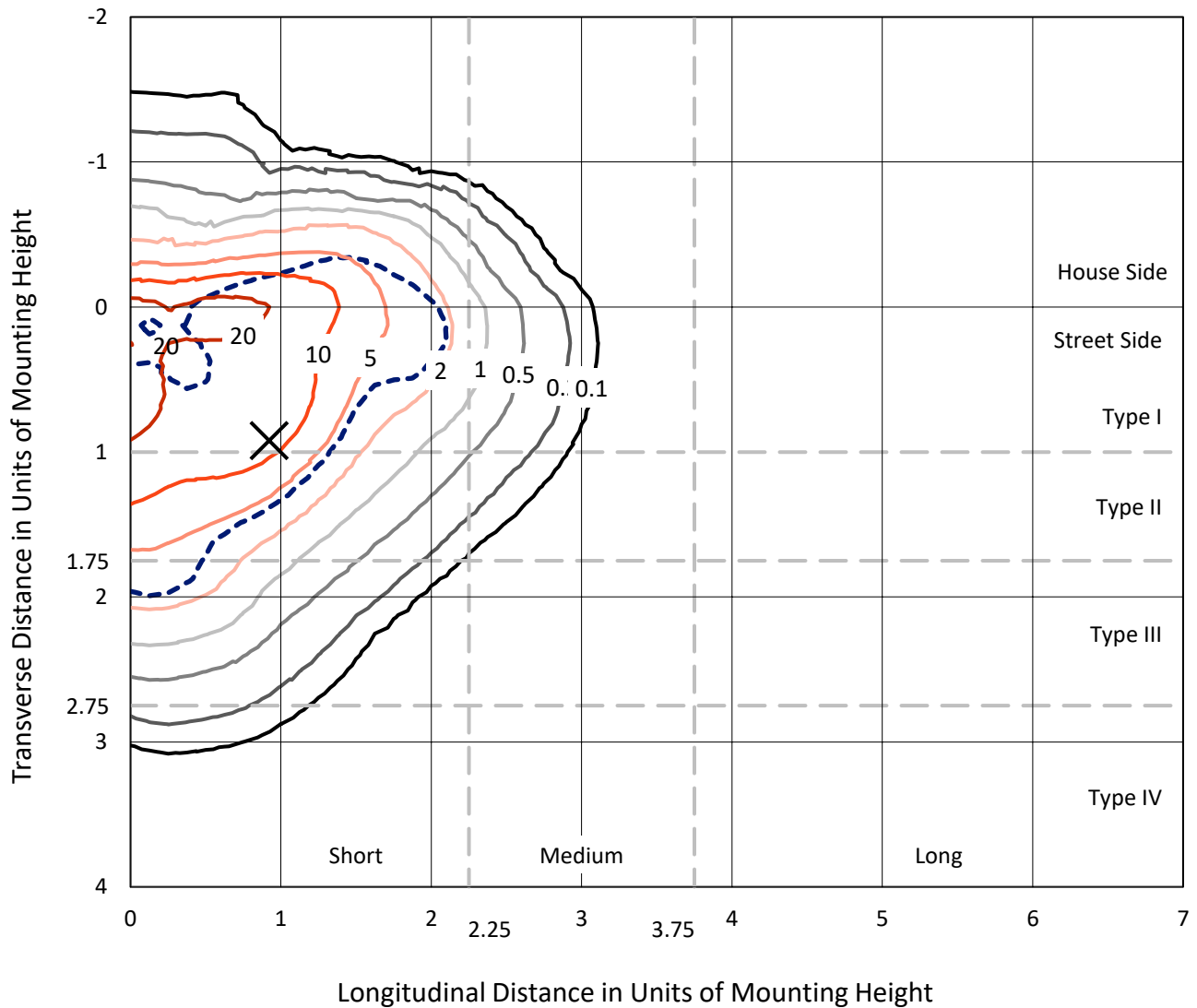
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

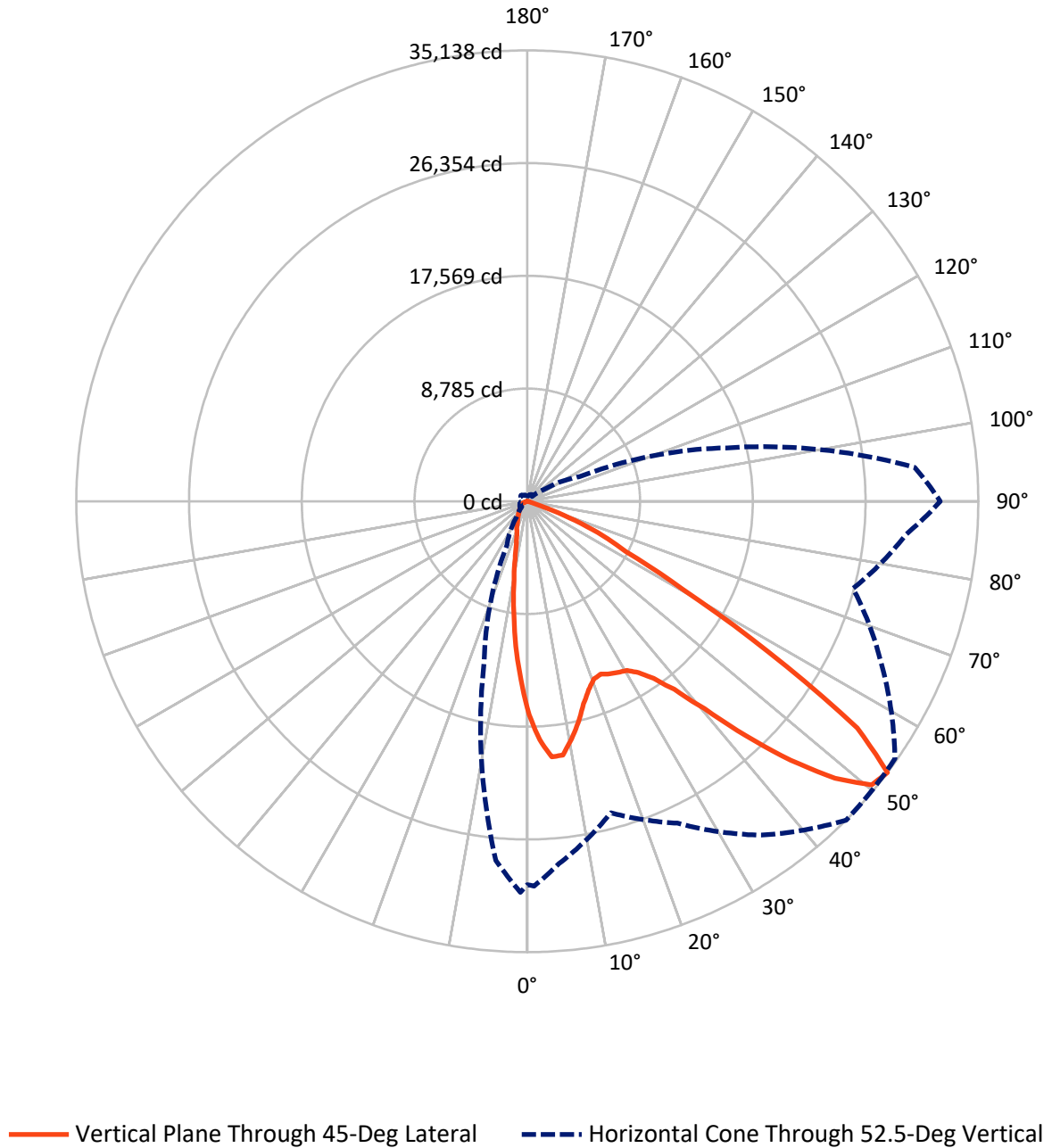
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.8 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	6661.4	0.0	6661.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	26161.6	0.0	26161.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	32823.0	0.0	32823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1213.7	3.7
10°-20°	2394.7	7.3
20°-30°	3644.3	11.1
30°-40°	5446.8	16.6
40°-50°	7756.7	23.6
50°-60°	8338.2	25.4
60°-70°	3694.9	11.3
70°-80°	298.9	0.9
80°-90°	34.8	0.1
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°	32823.0	100.0
0°-180°	32823.0	100.0

Coefficient of Utilization

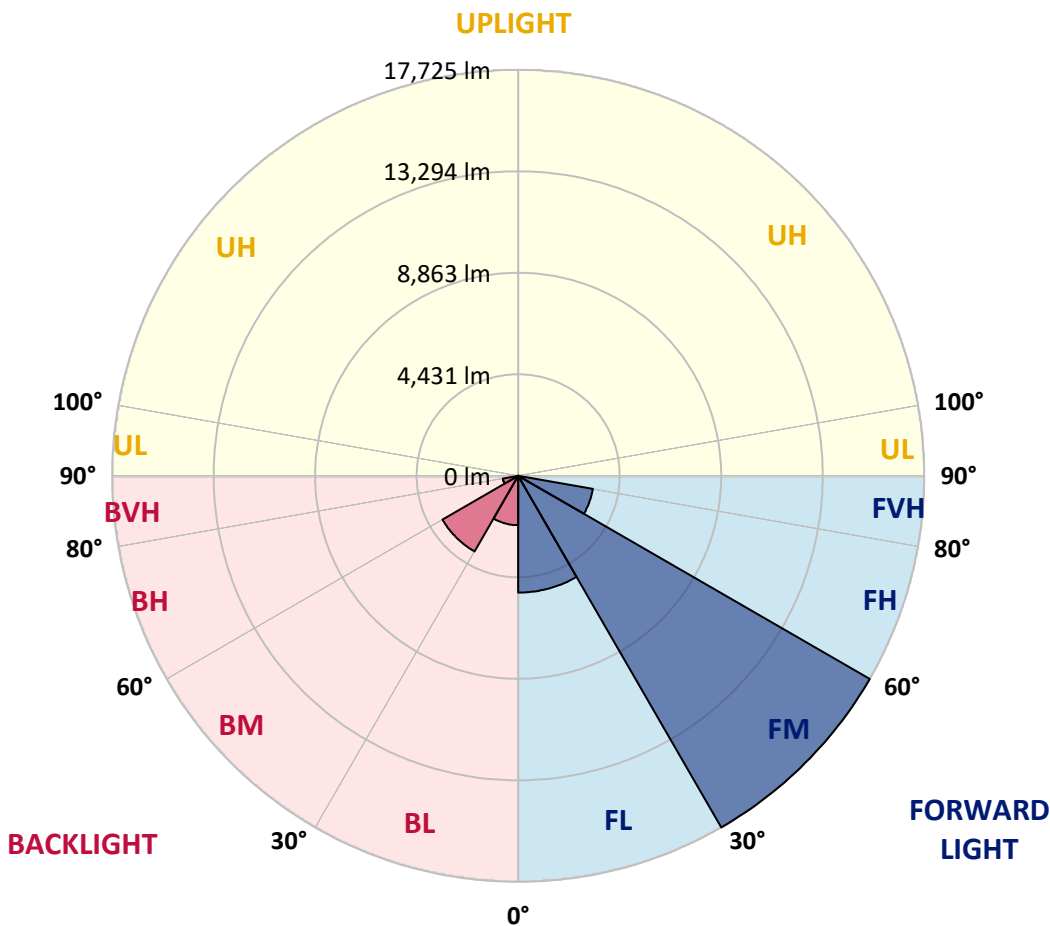


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5098.1	15.5			
FM (30°-60°)	17725.4	54.0			
FH (60°-80°)	3312.2	10.1			G2/5000
FVH (80°-90°)	25.8	0.1			G1/100
BL (0°-30°)	2154.6	6.6	B3/2500		
BM (30°-60°)	3816.3	11.6	B3/5000		
BH (60°-80°)	681.6	2.1	B2/1000		G2/1000
BVH (80°-90°)	9.0	0.0			G0/10
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°	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8
2.5°	17611.1	17662.8	17946.8	18301.9	18489.1	18915.2	18618.2	18695.7	18534.3	17966.2	17520.8
5°	17075.3	17068.9	17430.4	18308.4	19141.1	19986.8	20012.7	19560.8	18766.7	17895.2	16649.2
7.5°	15461.4	15713.2	16087.6	17488.5	19031.4	19664.1	19967.5	19438.1	18218.0	16972.0	15622.8
10°	14241.3	14370.4	15003.0	16694.4	17824.2	18669.9	18857.1	18553.7	17617.6	16061.8	14551.1
12.5°	13537.6	13602.2	14344.6	15764.8	16959.1	17585.3	17675.7	17817.7	17146.3	15687.3	13873.3
15°	13544.1	13595.7	14596.3	15784.2	16255.4	16087.6	16384.6	16378.1	16668.6	15616.3	14441.4
17.5°	14518.9	14577.0	15480.8	16068.2	15861.6	15467.8	15448.5	15745.4	16358.7	16500.8	15300.0
20°	16197.3	16332.9	16997.9	16965.6	15803.5	15009.5	14790.0	15016.0	16442.7	17249.6	17030.1
22.5°	18456.8	18644.1	19108.9	18218.0	16068.2	14699.6	14628.6	15067.6	16997.9	18921.6	18992.7
25°	21077.9	21394.2	21620.1	20477.5	17010.8	15235.4	14899.7	15655.1	17746.7	20735.7	21491.0
27.5°	22814.4	23143.7	23092.0	21458.7	17643.4	15377.5	15093.4	15797.1	18398.7	21168.2	22795.1
30°	24170.1	24370.3	24731.8	21988.1	18276.1	15777.7	15293.5	16397.5	18611.8	21917.1	24370.3
32.5°	25751.8	25887.3	25913.2	22924.2	19250.9	16281.3	15913.3	17146.3	19554.3	22633.7	25764.7
35°	27346.3	27546.5	27126.8	24079.7	19851.3	17217.3	16946.2	18443.9	20309.6	23376.1	27301.1
37.5°	29076.5	29179.8	28211.4	24557.5	20709.9	18740.9	18592.4	19844.8	21620.1	24718.9	29005.4
40°	30529.0	30625.8	29367.0	25144.9	21613.7	20871.3	21252.2	22517.5	23401.9	25590.4	29857.6
42.5°	31336.0	31561.9	29754.3	24822.2	23427.7	23285.7	24977.1	25422.5	25467.7	25835.7	30619.4
45°	31555.4	31452.2	29115.2	25086.8	25015.8	27256.0	28792.4	29379.9	27520.6	26287.6	30813.0
47.5°	30541.9	30677.5	28172.7	24854.4	27101.0	30264.3	32252.7	33343.7	29050.6	25893.8	30335.3
50°	29722.0	29547.7	27869.2	24686.6	27662.7	31684.6	34751.0	34996.3	30458.0	26378.0	29812.4
52.5°	29883.4	29993.2	28353.4	25132.0	27675.6	31768.5	35138.4	34970.5	30503.2	26268.2	29625.2
55°	30225.6	29741.4	28146.8	24150.8	25822.8	29425.1	31187.5	30929.2	28153.3	25099.7	29166.8
57.5°	26081.0	26829.9	25880.9	21562.0	21194.1	22168.9	22136.6	22930.6	21000.4	21600.8	26552.3
60°	21168.2	21297.3	21652.4	18443.9	14667.3	14331.6	13866.8	13363.3	14131.5	18469.7	24150.8
62.5°	18618.2	18463.3	19728.6	16778.4	10354.9	8670.0	8592.5	8902.4	10903.7	17617.6	22653.0
65°	13531.1	13724.8	14641.5	13021.1	7772.7	6617.1	6500.9	7417.6	8824.9	14118.6	17288.4
67.5°	8263.3	8637.7	8721.6	8030.9	5274.3	4189.7	4021.9	4854.7	6371.8	9134.8	10135.4
70°	3815.3	4267.2	4693.3	4383.4	3053.5	1723.7	1626.8	2040.0	3214.9	5254.9	5377.6
72.5°	1155.6	1162.0	1626.8	1697.8	987.7	387.3	342.2	451.9	1091.0	1736.6	1827.0
75°	83.9	90.4	219.5	251.8	187.2	96.8	103.3	122.7	232.4	387.3	290.5
77.5°	6.5	6.5	6.5	32.3	58.1	64.6	83.9	96.8	122.7	142.0	129.1
80°	6.5	0.0	6.5	25.8	45.2	64.6	77.5	90.4	96.8	109.7	96.8
82.5°	0.0	0.0	0.0	19.4	45.2	64.6	71.0	96.8	109.7	129.1	109.7
85°	0.0	0.0	0.0	19.4	45.2	71.0	64.6	32.3	0.0	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°	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8
2.5°	17598.2	17346.5	16771.9	16481.4	15797.1	15700.3	15028.9	14919.1	14693.2	14570.5	14273.5
5°	16100.5	15797.1	14861.0	14073.4	13156.7	12517.6	12027.0	11581.5	11323.3	11084.4	11194.2
7.5°	14880.4	13996.0	12956.6	11639.6	10580.9	9896.6	9147.7	8534.4	8172.9	7927.6	7985.7
10°	13602.2	13027.6	11581.5	10103.2	8824.9	8340.8	7753.3	7282.0	6772.0	6333.0	6126.5
12.5°	13201.9	12349.7	10535.7	9031.5	8063.2	7591.9	6920.5	6378.2	5726.2	5190.4	5003.2
15°	13272.9	12453.0	10251.6	8644.2	7501.5	6688.1	5887.6	5216.2	4499.6	4125.2	3931.5
17.5°	14428.5	13008.2	10438.9	8237.5	6720.4	5590.6	4602.9	3750.8	3214.9	2827.6	2743.7
20°	15848.7	14209.0	10839.1	7940.5	6081.3	4448.0	3363.4	2627.5	2182.0	2117.5	2098.1
22.5°	17927.5	16171.5	11697.7	7740.4	5300.1	3466.7	2304.7	1910.9	1788.2	1775.3	1781.8
25°	20832.5	18631.1	12633.8	7572.5	4712.7	2672.7	1885.1	1620.4	1581.6	1562.3	1594.6
27.5°	22091.4	20116.0	13130.9	7211.0	4176.8	2408.0	1859.2	1607.5	1497.7	1465.4	1484.8
30°	23647.2	21103.7	13912.0	6591.3	3389.2	1981.9	1736.6	1749.5	1697.8	1536.5	1484.8
32.5°	25713.0	22336.7	14305.8	6152.3	3027.7	1639.7	1271.8	1168.5	1304.1	1329.9	1375.1
35°	27036.5	23589.1	14506.0	5894.1	2840.5	1400.9	1078.1	981.3	949.0	955.4	981.3
37.5°	29496.1	25280.5	14757.7	5622.9	2698.5	1220.1	974.8	884.4	839.2	839.2	865.1
40°	30968.0	26623.3	15099.9	5474.4	2556.5	1110.4	884.4	807.0	768.2	768.2	781.1
42.5°	31336.0	27288.2	14983.7	5422.8	2395.1	1084.6	807.0	748.9	703.7	697.2	690.8
45°	31994.4	28301.8	15003.0	5364.7	2227.2	987.7	761.8	697.2	632.7	626.2	619.7
47.5°	32717.5	29031.3	15041.8	5138.7	2065.8	826.3	794.1	645.6	568.1	555.2	555.2
50°	32097.7	29612.3	15377.5	4912.8	1859.2	671.4	781.1	606.8	503.5	484.2	490.6
52.5°	32175.2	30296.6	16087.6	4596.5	1601.0	535.8	632.7	574.6	458.4	426.1	432.5
55°	30935.7	29573.5	16184.4	4260.8	1252.4	413.2	484.2	503.5	387.3	374.4	374.4
57.5°	26629.7	25041.6	14280.0	3453.8	826.3	342.2	348.6	439.0	335.7	322.8	329.2
60°	22788.6	20103.0	11491.1	2278.9	516.5	271.1	251.8	445.4	297.0	290.5	309.9
62.5°	20774.4	16520.1	8715.2	1413.8	355.1	206.6	174.3	361.5	258.2	258.2	284.1
65°	15009.5	11097.3	5067.7	742.4	251.8	161.4	129.1	206.6	213.0	219.5	232.4
67.5°	9296.2	5603.5	2136.8	361.5	167.8	109.7	83.9	129.1	142.0	142.0	154.9
70°	4590.0	2233.7	710.1	206.6	129.1	90.4	58.1	71.0	71.0	64.6	71.0
72.5°	1420.3	671.4	180.8	129.1	90.4	58.1	32.3	25.8	12.9	0.0	6.5
75°	161.4	129.1	116.2	90.4	58.1	25.8	6.5	0.0	0.0	0.0	0.0
77.5°	96.8	109.7	109.7	90.4	58.1	19.4	0.0	0.0	0.0	0.0	0.0
80°	77.5	83.9	90.4	83.9	51.6	25.8	0.0	0.0	0.0	0.0	0.0
82.5°	96.8	109.7	122.7	109.7	71.0	32.3	12.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	19.4	6.5	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8
2.5°	14150.9	14008.9	14209.0	13912.0	13905.6	13912.0	13828.1	13750.6	13873.3	14202.5	14234.8
5°	10800.4	11103.8	11200.6	11517.0	11342.7	11084.4	11136.1	10961.8	11387.8	11575.1	11426.6
7.5°	7863.0	7843.7	8495.7	8534.4	8618.4	8624.8	8611.9	8269.7	7921.1	7998.6	8231.0
10°	6100.6	5771.4	6087.7	6055.4	6262.0	6203.9	6287.8	5919.9	6042.5	6042.5	6191.0
12.5°	4970.9	4622.3	4564.2	4480.3	4564.2	4596.5	4628.7	4557.7	4764.3	4861.1	4964.4
15°	3795.9	3602.3	3550.6	3389.2	3415.1	3505.4	3582.9	3615.2	3550.6	3699.1	3712.0
17.5°	2756.6	2750.1	2782.4	2775.9	2750.1	2730.8	2724.3	2640.4	2614.6	2627.5	2679.1
20°	2091.6	2143.3	2253.0	2362.8	2420.9	2349.9	2253.0	2111.0	2052.9	2065.8	2072.3
22.5°	1788.2	1865.7	2014.2	2136.8	2194.9	2065.8	1891.5	1768.9	1743.0	1736.6	1730.1
25°	1620.4	1710.8	1820.5	1859.2	1852.8	1775.3	1646.2	1594.6	1581.6	1568.7	1510.6
27.5°	1530.0	1562.3	1581.6	1626.8	1646.2	1594.6	1562.3	1484.8	1471.9	1471.9	1433.2
30°	1478.4	1459.0	1484.8	1452.5	1478.4	1439.6	1446.1	1446.1	1413.8	1426.7	1426.7
32.5°	1375.1	1381.5	1381.5	1317.0	1336.3	1291.1	1336.3	1375.1	1381.5	1388.0	1439.6
35°	1007.1	1123.3	1181.4	1181.4	1200.8	1168.5	1162.0	1116.8	1058.7	1000.6	974.8
37.5°	884.4	929.6	1007.1	1052.3	1084.6	1058.7	1000.6	929.6	897.3	871.5	845.7
40°	787.6	826.3	878.0	929.6	994.2	961.9	871.5	839.2	800.5	800.5	774.7
42.5°	710.1	729.5	761.8	839.2	910.3	845.7	781.1	755.3	735.9	729.5	723.0
45°	639.1	645.6	677.8	742.4	826.3	761.8	697.2	664.9	671.4	677.8	671.4
47.5°	574.6	587.5	606.8	684.3	735.9	703.7	632.7	613.3	613.3	613.3	619.7
50°	497.1	529.4	568.1	632.7	671.4	652.0	593.9	568.1	555.2	555.2	561.6
52.5°	445.4	471.3	522.9	600.4	652.0	619.7	561.6	522.9	497.1	490.6	503.5
55°	387.3	432.5	516.5	574.6	645.6	613.3	548.7	503.5	458.4	451.9	451.9
57.5°	348.6	419.6	497.1	568.1	626.2	600.4	548.7	490.6	432.5	426.1	426.1
60°	329.2	406.7	484.2	548.7	626.2	587.5	542.3	477.7	413.2	413.2	406.7
62.5°	309.9	380.9	458.4	522.9	600.4	568.1	522.9	458.4	393.8	393.8	380.9
65°	258.2	329.2	380.9	439.0	522.9	490.6	445.4	400.3	348.6	335.7	342.2
67.5°	180.8	225.9	277.6	335.7	387.3	374.4	355.1	322.8	277.6	271.1	264.7
70°	90.4	122.7	167.8	225.9	271.1	258.2	245.3	219.5	193.7	187.2	187.2
72.5°	12.9	38.7	71.0	103.3	142.0	148.5	142.0	135.6	129.1	122.7	129.1
75°	0.0	0.0	0.0	25.8	58.1	71.0	83.9	96.8	96.8	83.9	103.3
77.5°	0.0	0.0	0.0	0.0	6.5	32.3	64.6	83.9	103.3	90.4	122.7
80°	0.0	0.0	0.0	0.0	6.5	38.7	64.6	90.4	103.3	90.4	129.1
82.5°	0.0	0.0	0.0	0.0	6.5	45.2	64.6	83.9	96.8	90.4	116.2
85°	0.0	0.0	0.0	0.0	19.4	38.7	25.8	12.9	6.5	6.5	19.4
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



REPORT NUMBER: P534059

CATALOG NUMBER: GALN-SA9C-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8	16642.8
2.5°	14415.6	14873.9	15364.6	15551.8	16132.8	16571.8	16868.7	17507.9	17604.7	17611.1
5°	11581.5	11813.9	12653.2	13047.0	13912.0	14583.4	15300.0	16332.9	17023.7	17075.3
7.5°	8231.0	8876.6	9231.6	10258.1	11323.3	12375.6	13440.8	14641.5	15442.0	15461.4
10°	6623.5	7043.2	7675.8	8444.1	9341.4	10413.0	11833.3	13227.7	14041.1	14241.3
12.5°	5332.4	6068.4	6791.4	7585.4	8269.7	9076.7	10606.7	12466.0	13137.3	13537.6
15°	4105.8	4777.2	5629.4	6559.0	7333.7	8411.8	10154.8	12278.7	13408.5	13544.1
17.5°	3027.7	3628.1	4415.7	5293.7	6455.7	7985.7	10232.3	13227.7	14292.9	14518.9
20°	2175.6	2524.2	3143.9	4163.9	5642.3	7488.6	10309.7	14189.6	15810.0	16197.3
22.5°	1723.7	1865.7	2272.4	3176.2	4732.0	6965.7	10858.5	16029.5	17895.2	18456.8
25°	1497.7	1575.2	1768.9	2504.8	4157.5	6914.1	11736.5	18237.3	20671.1	21077.9
27.5°	1446.1	1459.0	1626.8	2298.2	3847.6	6571.9	12072.2	19806.1	22401.3	22814.4
30°	1523.5	1730.1	1743.0	1943.2	3273.0	5894.1	12246.5	21323.2	23866.7	24170.1
32.5°	1317.0	1252.4	1297.6	1504.2	2879.2	5500.3	12575.7	22646.6	25538.7	25751.8
35°	916.7	961.9	1065.2	1304.1	2517.7	5087.1	12659.6	24105.6	27126.8	27346.3
37.5°	845.7	871.5	955.4	1110.4	2214.3	4854.7	12543.4	25170.8	28773.0	29076.5
40°	787.6	819.9	865.1	1007.1	1988.4	4596.5	12382.0	26132.7	29780.1	30529.0
42.5°	742.4	768.2	807.0	961.9	1794.7	4338.2	12156.1	27488.4	30683.9	31336.0
45°	690.8	729.5	774.7	936.1	1684.9	4163.9	11988.2	27404.4	31206.8	31555.4
47.5°	639.1	703.7	755.3	871.5	1652.7	4080.0	12059.2	27088.1	30780.8	30541.9
50°	587.5	671.4	761.8	723.0	1575.2	3912.2	12143.2	27520.6	29767.2	29722.0
52.5°	542.3	639.1	710.1	593.9	1400.9	3750.8	12956.6	28088.7	30483.8	29883.4
55°	477.7	574.6	568.1	477.7	1136.2	3628.1	13595.7	28101.6	29999.6	30225.6
57.5°	432.5	510.0	445.4	400.3	839.2	3034.2	12556.3	23563.3	25680.8	26081.0
60°	400.3	497.1	335.7	316.3	548.7	2188.5	10961.8	18250.3	20412.9	21168.2
62.5°	368.0	471.3	264.7	258.2	380.9	1555.8	9012.2	15274.2	17591.8	18618.2
65°	322.8	335.7	213.0	200.1	271.1	839.2	5487.3	10516.3	13150.3	13531.1
67.5°	264.7	258.2	174.3	161.4	180.8	406.7	2420.9	5267.8	7624.2	8263.3
70°	213.0	213.0	148.5	129.1	129.1	187.2	632.7	2098.1	3447.3	3815.3
72.5°	154.9	161.4	116.2	103.3	96.8	90.4	103.3	419.6	903.8	1155.6
75°	135.6	142.0	116.2	90.4	71.0	58.1	45.2	38.7	51.6	83.9
77.5°	148.5	148.5	122.7	83.9	64.6	45.2	25.8	12.9	12.9	6.5
80°	187.2	193.7	161.4	109.7	77.5	51.6	32.3	12.9	6.5	6.5
82.5°	200.1	219.5	180.8	135.6	96.8	58.1	32.3	6.5	0.0	0.0
85°	51.6	83.9	142.0	122.7	96.8	58.1	32.3	6.5	0.0	0.0
87.5°	0.0	6.5	19.4	19.4	25.8	25.8	19.4	6.5	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)