

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: P534397

Luminaire Tested: **GALN-SA9D-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534397
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-SA9D-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 28501 lumens
Efficiency: N/A
Efficacy: 51.6 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

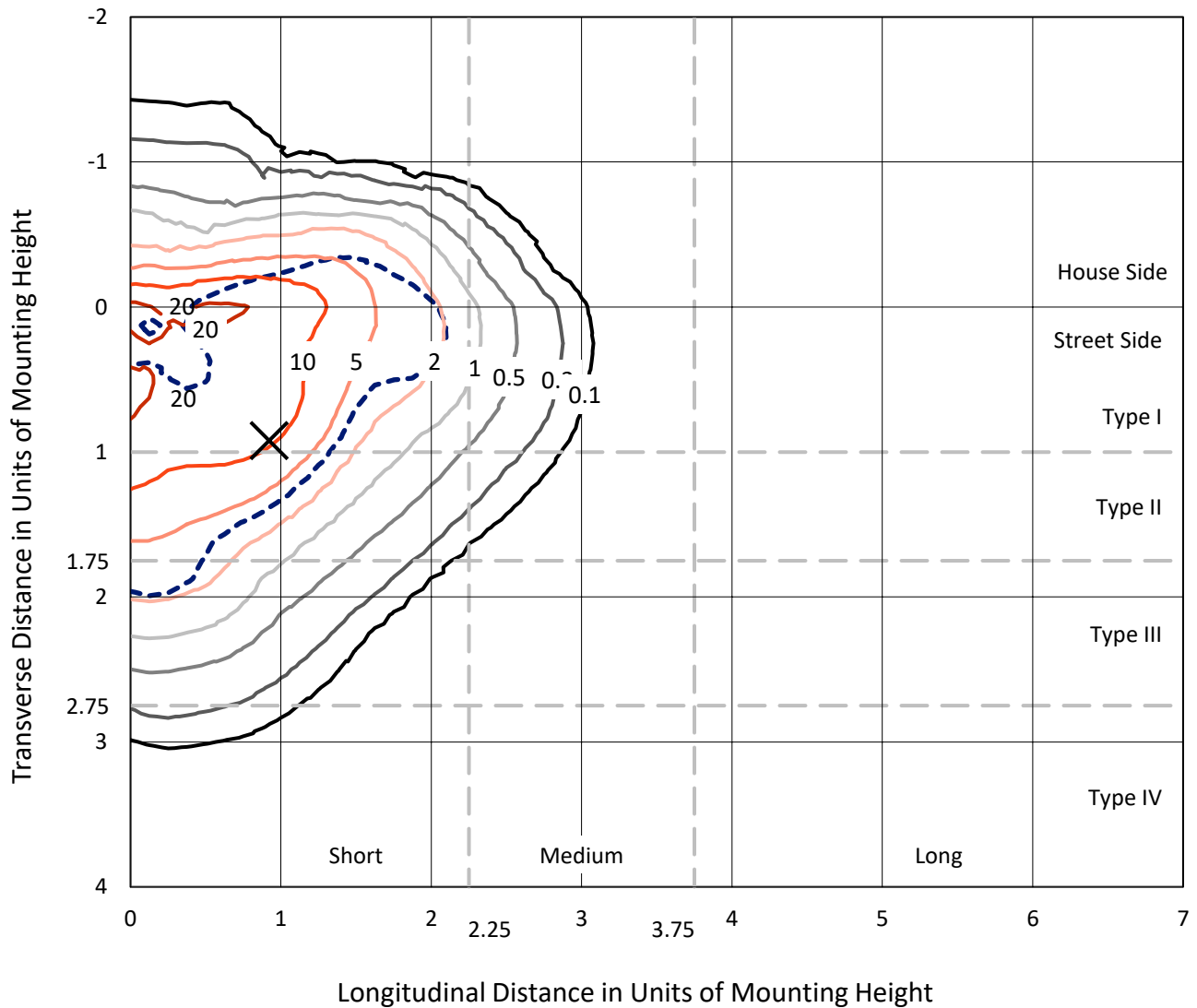
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

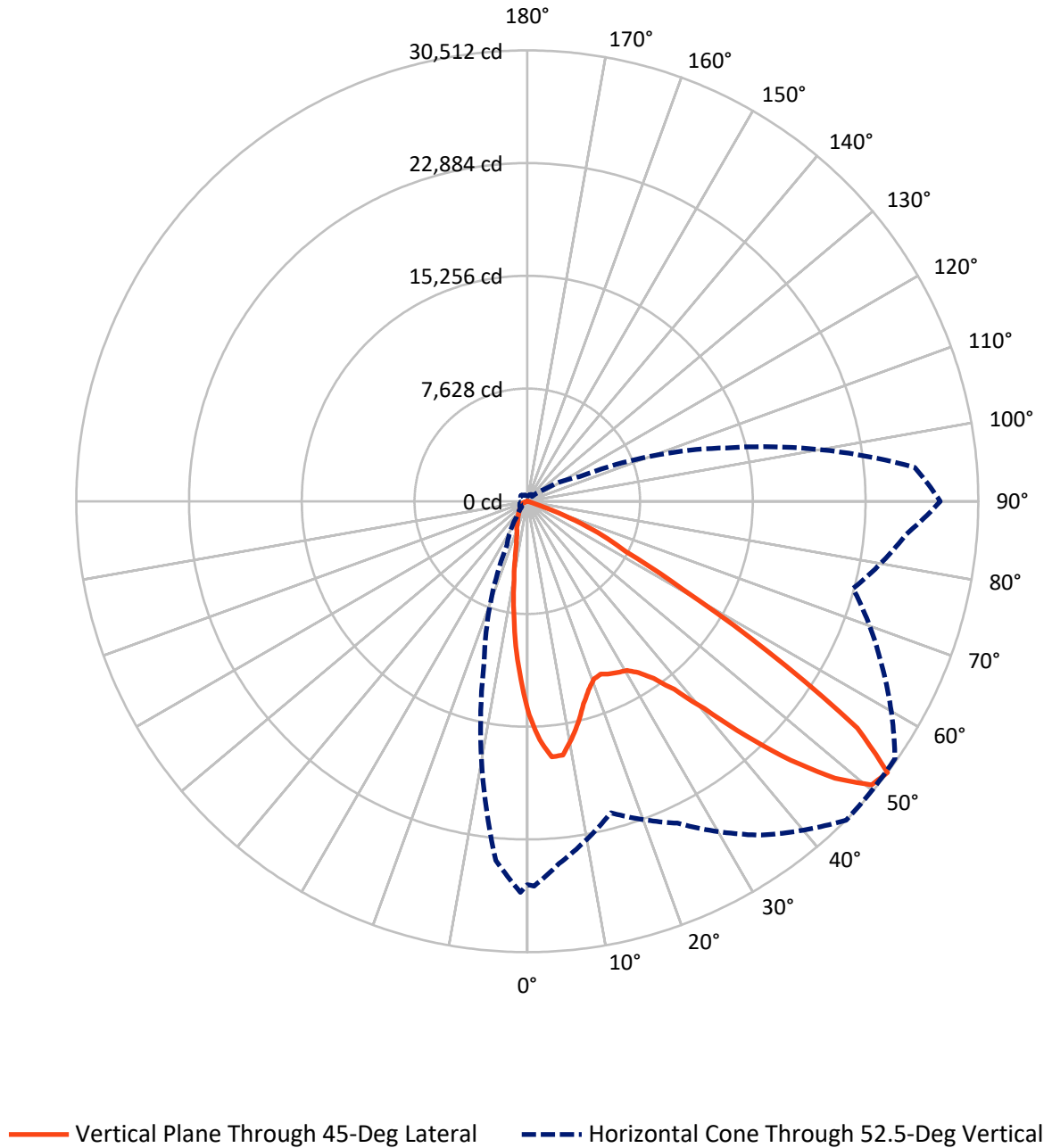
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25 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	5784.3	0.0	5784.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	22716.7	0.0	22716.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	28501.0	0.0	28501.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1053.9	3.7
10°-20°	2079.3	7.3
20°-30°	3164.4	11.1
30°-40°	4729.6	16.6
40°-50°	6735.3	23.6
50°-60°	7240.3	25.4
60°-70°	3208.3	11.3
70°-80°	259.6	0.9
80°-90°	30.2	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°	28501.0	100.0
0°-180°	28501.0	100.0

Coefficient of Utilization



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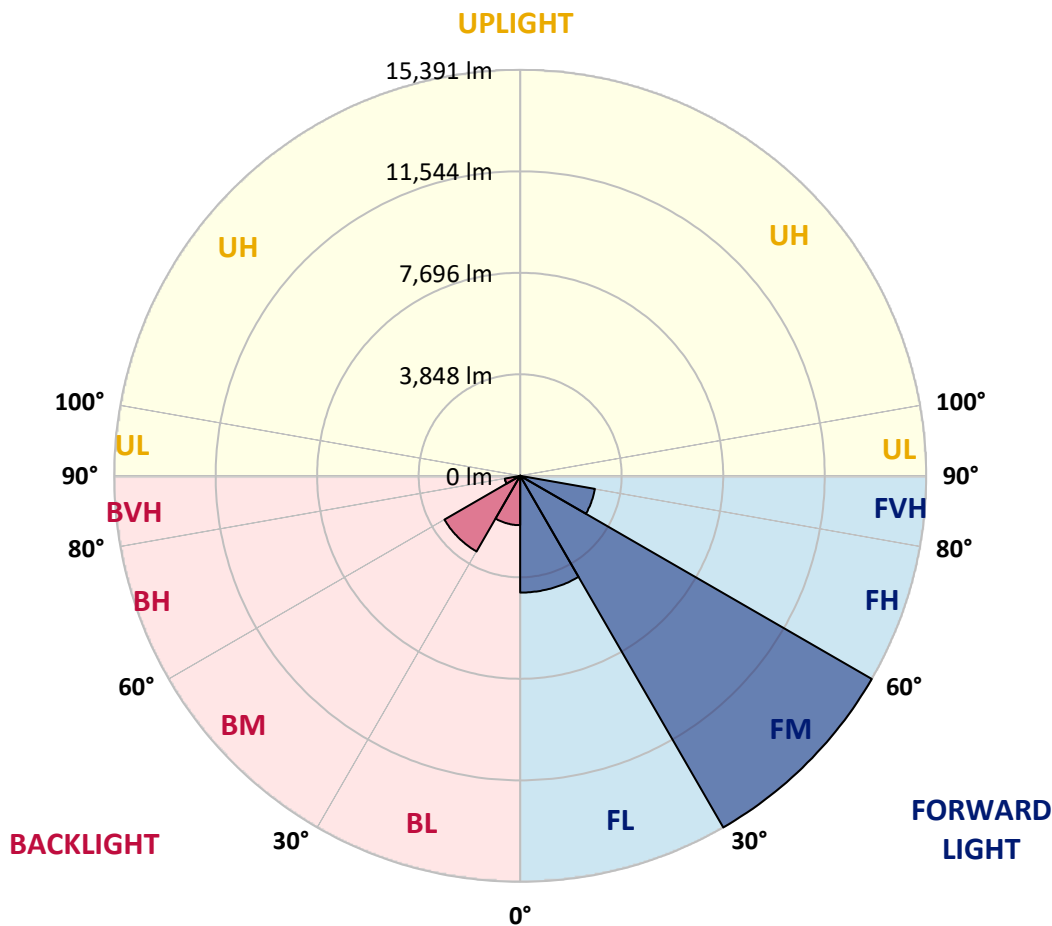
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4426.8	15.5			
FM (30°-60°)	15391.4	54.0			
FH (60°-80°)	2876.1	10.1			G2/5000
FVH (80°-90°)	22.4	0.1			G1/100
BL (0°-30°)	1870.9	6.6	B3/2500		
BM (30°-60°)	3313.8	11.6	B3/5000		
BH (60°-80°)	591.8	2.1	B2/1000		G2/1000
BVH (80°-90°)	7.8	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°	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3
2.5°	15292.2	15337.0	15583.7	15892.0	16054.5	16424.5	16166.7	16233.9	16093.8	15600.5	15213.7
5°	14826.9	14821.3	15135.2	15897.6	16620.7	17355.1	17377.5	16985.1	16295.6	15538.8	14456.9
7.5°	13425.5	13644.1	13969.2	15185.7	16525.4	17074.8	17338.2	16878.6	15819.1	14737.2	13565.6
10°	12366.0	12478.1	13027.5	14496.2	15477.2	16211.5	16374.1	16110.6	15297.8	13946.8	12635.1
12.5°	11755.0	11811.1	12455.7	13689.0	14726.0	15269.8	15348.2	15471.6	14888.6	13621.7	12046.5
15°	11760.6	11805.5	12674.3	13705.8	14115.0	13969.2	14227.1	14221.5	14473.8	13560.0	12539.8
17.5°	12607.1	12657.5	13442.3	13952.4	13773.0	13431.1	13414.3	13672.1	14204.7	14328.0	13285.4
20°	14064.5	14182.3	14759.6	14731.6	13722.6	13033.1	12842.5	13038.7	14277.6	14978.3	14787.7
22.5°	16026.5	16189.1	16592.7	15819.1	13952.4	12764.0	12702.4	13083.6	14759.6	16430.1	16491.8
25°	18302.4	18577.1	18773.3	17781.1	14770.9	13229.3	12937.8	13593.7	15409.9	18005.3	18661.2
27.5°	19810.3	20096.2	20051.4	18633.1	15320.2	13352.6	13106.0	13717.0	15976.1	18380.9	19793.5
30°	20987.5	21161.3	21475.2	19092.8	15869.6	13700.2	13279.8	14238.3	16161.1	19031.1	21161.3
32.5°	22360.9	22478.6	22501.0	19905.6	16716.0	14137.4	13817.9	14888.6	16979.5	19653.4	22372.1
35°	23745.5	23919.3	23554.9	20909.0	17237.3	14950.2	14714.8	16015.3	17635.3	20298.0	23706.2
37.5°	25247.8	25337.5	24496.6	21323.8	17982.9	16273.2	16144.2	17231.7	18773.3	21464.0	25186.1
40°	26509.1	26593.1	25500.0	21834.0	18767.7	18123.0	18453.8	19552.5	20320.4	22220.7	25926.1
42.5°	27209.8	27406.0	25836.4	21553.7	20342.9	20219.5	21688.2	22075.0	22114.2	22433.8	26587.5
45°	27400.4	27310.7	25281.4	21783.5	21721.8	23667.0	25001.1	25511.3	23896.8	22826.2	26755.7
47.5°	26520.3	26638.0	24463.0	21581.7	23532.5	26279.2	28005.8	28953.1	25225.4	22484.2	26340.9
50°	25808.4	25657.0	24199.5	21436.0	24020.2	27512.5	30175.1	30388.2	26447.4	22904.6	25886.8
52.5°	25948.5	26043.8	24620.0	21822.7	24031.4	27585.3	30511.5	30365.7	26486.6	22809.3	25724.3
55°	26245.6	25825.2	24440.6	20970.7	22422.5	25550.5	27080.8	26856.6	24446.2	21794.7	25326.3
57.5°	22646.8	23297.0	22473.0	18722.8	18403.3	19249.8	19221.7	19911.2	18235.1	18756.5	23056.0
60°	18380.9	18493.0	18801.3	16015.3	12736.0	12444.5	12040.9	11603.7	12270.7	16037.7	20970.7
62.5°	16166.7	16032.1	17130.8	14569.1	8991.4	7528.4	7461.1	7730.2	9467.9	15297.8	19670.2
65°	11749.4	11917.6	12713.6	11306.6	6749.2	5745.8	5644.9	6440.9	7662.9	12259.5	15011.9
67.5°	7175.2	7500.3	7573.2	6973.4	4579.8	3638.1	3492.3	4215.4	5532.8	7932.0	8800.8
70°	3312.9	3705.3	4075.3	3806.2	2651.5	1496.7	1412.6	1771.4	2791.6	4563.0	4669.5
72.5°	1003.4	1009.0	1412.6	1474.3	857.7	336.3	297.1	392.4	947.4	1507.9	1586.4
75°	72.9	78.5	190.6	218.6	162.6	84.1	89.7	106.5	201.8	336.3	252.3
77.5°	5.6	5.6	5.6	28.0	50.5	56.1	72.9	84.1	106.5	123.3	112.1
80°	5.6	0.0	5.6	22.4	39.2	56.1	67.3	78.5	84.1	95.3	84.1
82.5°	0.0	0.0	0.0	16.8	39.2	56.1	61.7	84.1	95.3	112.1	95.3
85°	0.0	0.0	0.0	16.8	39.2	61.7	56.1	28.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3
2.5°	15281.0	15062.3	14563.4	14311.2	13717.0	13632.9	13049.9	12954.6	12758.4	12651.9	12394.1
5°	13980.5	13717.0	12904.2	12220.3	11424.3	10869.3	10443.3	10056.5	9832.3	9624.9	9720.2
7.5°	12921.0	12153.0	11250.5	10107.0	9187.6	8593.4	7943.2	7410.7	7096.7	6883.7	6934.2
10°	11811.1	11312.2	10056.5	8772.8	7662.9	7242.5	6732.4	6323.2	5880.3	5499.1	5319.7
12.5°	11463.5	10723.6	9148.4	7842.3	7001.4	6592.2	6009.2	5538.4	4972.2	4506.9	4344.4
15°	11525.2	10813.3	8901.8	7505.9	6513.8	5807.4	5112.3	4529.4	3907.1	3582.0	3413.8
17.5°	12528.6	11295.4	9064.3	7152.8	5835.5	4854.5	3996.8	3256.9	2791.6	2455.3	2382.4
20°	13761.8	12338.0	9411.9	6894.9	5280.5	3862.3	2920.5	2281.5	1894.7	1838.6	1821.8
22.5°	15566.9	14042.1	10157.4	6721.2	4602.2	3010.2	2001.2	1659.3	1552.8	1541.6	1547.2
25°	18089.4	16177.9	10970.2	6575.4	4092.1	2320.7	1636.8	1407.0	1373.4	1356.6	1384.6
27.5°	19182.5	17467.2	11401.9	6261.5	3626.8	2090.9	1614.4	1395.8	1300.5	1272.5	1289.3
30°	20533.4	18324.8	12080.1	5723.4	2943.0	1720.9	1507.9	1519.1	1474.3	1334.1	1289.3
32.5°	22327.3	19395.5	12422.1	5342.2	2629.0	1423.8	1104.3	1014.6	1132.3	1154.8	1194.0
35°	23476.4	20483.0	12595.9	5117.9	2466.5	1216.4	936.1	852.1	824.0	829.6	852.1
37.5°	25612.2	21951.7	12814.5	4882.5	2343.2	1059.5	846.5	768.0	728.7	728.7	751.2
40°	26890.2	23117.6	13111.6	4753.6	2219.8	964.2	768.0	700.7	667.1	667.1	678.3
42.5°	27209.8	23695.0	13010.7	4708.7	2079.7	941.7	700.7	650.3	611.0	605.4	599.8
45°	27781.5	24575.1	13027.5	4658.3	1933.9	857.7	661.5	605.4	549.4	543.7	538.1
47.5°	28409.4	25208.5	13061.1	4462.1	1793.8	717.5	689.5	560.6	493.3	482.1	482.1
50°	27871.2	25713.1	13352.6	4265.9	1614.4	583.0	678.3	526.9	437.2	420.4	426.0
52.5°	27938.5	26307.3	13969.2	3991.2	1390.2	465.3	549.4	498.9	398.0	370.0	375.6
55°	26862.2	25679.4	14053.3	3699.7	1087.5	358.8	420.4	437.2	336.3	325.1	325.1
57.5°	23123.3	21744.3	12399.7	2999.0	717.5	297.1	302.7	381.2	291.5	280.3	285.9
60°	19787.9	17456.0	9978.0	1978.8	448.5	235.4	218.6	386.8	257.9	252.3	269.1
62.5°	18038.9	14344.8	7567.6	1227.6	308.3	179.4	151.4	313.9	224.2	224.2	246.6
65°	13033.1	9636.1	4400.4	644.6	218.6	140.1	112.1	179.4	185.0	190.6	201.8
67.5°	8072.1	4865.7	1855.5	313.9	145.7	95.3	72.9	112.1	123.3	123.3	134.5
70°	3985.6	1939.6	616.6	179.4	112.1	78.5	50.5	61.7	61.7	56.1	61.7
72.5°	1233.2	583.0	157.0	112.1	78.5	50.5	28.0	22.4	11.2	0.0	5.6
75°	140.1	112.1	100.9	78.5	50.5	22.4	5.6	0.0	0.0	0.0	0.0
77.5°	84.1	95.3	95.3	78.5	50.5	16.8	0.0	0.0	0.0	0.0	0.0
80°	67.3	72.9	78.5	72.9	44.8	22.4	0.0	0.0	0.0	0.0	0.0
82.5°	84.1	95.3	106.5	95.3	61.7	28.0	11.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	16.8	5.6	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°	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3
2.5°	12287.6	12164.2	12338.0	12080.1	12074.5	12080.1	12007.3	11940.0	12046.5	12332.4	12360.4
5°	9378.2	9641.7	9725.8	10000.5	9849.1	9624.9	9669.7	9518.4	9888.3	10050.9	9922.0
7.5°	6827.7	6810.8	7377.0	7410.7	7483.5	7489.1	7477.9	7180.8	6878.1	6945.4	7147.2
10°	5297.3	5011.4	5286.1	5258.1	5437.5	5387.0	5459.9	5140.4	5246.9	5246.9	5375.8
12.5°	4316.3	4013.6	3963.2	3890.3	3963.2	3991.2	4019.2	3957.6	4137.0	4221.0	4310.7
15°	3296.1	3127.9	3083.1	2943.0	2965.4	3043.9	3111.1	3139.2	3083.1	3212.0	3223.2
17.5°	2393.6	2388.0	2416.0	2410.4	2388.0	2371.2	2365.6	2292.7	2270.3	2281.5	2326.3
20°	1816.2	1861.1	1956.4	2051.7	2102.1	2040.5	1956.4	1833.0	1782.6	1793.8	1799.4
22.5°	1552.8	1620.0	1749.0	1855.5	1905.9	1793.8	1642.5	1535.9	1513.5	1507.9	1502.3
25°	1407.0	1485.5	1580.8	1614.4	1608.8	1541.6	1429.4	1384.6	1373.4	1362.2	1311.7
27.5°	1328.5	1356.6	1373.4	1412.6	1429.4	1384.6	1356.6	1289.3	1278.1	1278.1	1244.5
30°	1283.7	1266.9	1289.3	1261.3	1283.7	1250.1	1255.7	1255.7	1227.6	1238.8	1238.8
32.5°	1194.0	1199.6	1199.6	1143.5	1160.4	1121.1	1160.4	1194.0	1199.6	1205.2	1250.1
35°	874.5	975.4	1025.8	1025.8	1042.6	1014.6	1009.0	969.8	919.3	868.9	846.5
37.5°	768.0	807.2	874.5	913.7	941.7	919.3	868.9	807.2	779.2	756.8	734.3
40°	683.9	717.5	762.4	807.2	863.3	835.2	756.8	728.7	695.1	695.1	672.7
42.5°	616.6	633.4	661.5	728.7	790.4	734.3	678.3	655.9	639.0	633.4	627.8
45°	555.0	560.6	588.6	644.6	717.5	661.5	605.4	577.4	583.0	588.6	583.0
47.5°	498.9	510.1	526.9	594.2	639.0	611.0	549.4	532.5	532.5	532.5	538.1
50°	431.6	459.7	493.3	549.4	583.0	566.2	515.7	493.3	482.1	482.1	487.7
52.5°	386.8	409.2	454.1	521.3	566.2	538.1	487.7	454.1	431.6	426.0	437.2
55°	336.3	375.6	448.5	498.9	560.6	532.5	476.5	437.2	398.0	392.4	392.4
57.5°	302.7	364.4	431.6	493.3	543.7	521.3	476.5	426.0	375.6	370.0	370.0
60°	285.9	353.2	420.4	476.5	543.7	510.1	470.9	414.8	358.8	358.8	353.2
62.5°	269.1	330.7	398.0	454.1	521.3	493.3	454.1	398.0	341.9	341.9	330.7
65°	224.2	285.9	330.7	381.2	454.1	426.0	386.8	347.5	302.7	291.5	297.1
67.5°	157.0	196.2	241.0	291.5	336.3	325.1	308.3	280.3	241.0	235.4	229.8
70°	78.5	106.5	145.7	196.2	235.4	224.2	213.0	190.6	168.2	162.6	162.6
72.5°	11.2	33.6	61.7	89.7	123.3	128.9	123.3	117.7	112.1	106.5	112.1
75°	0.0	0.0	0.0	22.4	50.5	61.7	72.9	84.1	84.1	72.9	89.7
77.5°	0.0	0.0	0.0	0.0	5.6	28.0	56.1	72.9	89.7	78.5	106.5
80°	0.0	0.0	0.0	0.0	5.6	33.6	56.1	78.5	89.7	78.5	112.1
82.5°	0.0	0.0	0.0	0.0	5.6	39.2	56.1	72.9	84.1	78.5	100.9
85°	0.0	0.0	0.0	0.0	16.8	33.6	22.4	11.2	5.6	5.6	16.8
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: P534397

CATALOG NUMBER: GALN-SA9D-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3	14451.3
2.5°	12517.4	12915.4	13341.4	13504.0	14008.5	14389.7	14647.5	15202.5	15286.6	15292.2
5°	10056.5	10258.3	10987.0	11329.0	12080.1	12663.1	13285.4	14182.3	14782.1	14826.9
7.5°	7147.2	7707.8	8016.1	8907.4	9832.3	10746.0	11670.9	12713.6	13408.7	13425.5
10°	5751.4	6115.7	6665.1	7332.2	8111.4	9041.9	10275.1	11485.9	12192.3	12366.0
12.5°	4630.3	5269.3	5897.1	6586.6	7180.8	7881.5	9210.1	10824.5	11407.5	11755.0
15°	3565.2	4148.2	4888.1	5695.3	6368.0	7304.1	8817.7	10661.9	11642.9	11760.6
17.5°	2629.0	3150.4	3834.3	4596.6	5605.6	6934.2	8884.9	11485.9	12410.9	12607.1
20°	1889.1	2191.8	2729.9	3615.6	4899.3	6502.5	8952.2	12321.2	13728.2	14064.5
22.5°	1496.7	1620.0	1973.2	2758.0	4108.9	6048.5	9428.7	13918.8	15538.8	16026.5
25°	1300.5	1367.8	1535.9	2175.0	3610.0	6003.6	10191.0	15835.9	17949.2	18302.4
27.5°	1255.7	1266.9	1412.6	1995.6	3341.0	5706.5	10482.5	17198.1	19451.6	19810.3
30°	1322.9	1502.3	1513.5	1687.3	2842.1	5117.9	10633.9	18515.4	20724.0	20987.5
32.5°	1143.5	1087.5	1126.7	1306.1	2500.1	4776.0	10919.8	19664.6	22175.9	22360.9
35°	796.0	835.2	924.9	1132.3	2186.2	4417.2	10992.7	20931.4	23554.9	23745.5
37.5°	734.3	756.8	829.6	964.2	1922.7	4215.4	10891.8	21856.4	24984.3	25247.8
40°	683.9	711.9	751.2	874.5	1726.5	3991.2	10751.6	22691.6	25858.8	26509.1
42.5°	644.6	667.1	700.7	835.2	1558.4	3767.0	10555.4	23868.8	26643.6	27209.8
45°	599.8	633.4	672.7	812.8	1463.1	3615.6	10409.7	23795.9	27097.6	27400.4
47.5°	555.0	611.0	655.9	756.8	1435.0	3542.8	10471.3	23521.3	26727.7	26520.3
50°	510.1	583.0	661.5	627.8	1367.8	3397.0	10544.2	23896.8	25847.6	25808.4
52.5°	470.9	555.0	616.6	515.7	1216.4	3256.9	11250.5	24390.1	26469.8	25948.5
55°	414.8	498.9	493.3	414.8	986.6	3150.4	11805.5	24401.3	26049.4	26245.6
57.5°	375.6	442.8	386.8	347.5	728.7	2634.6	10903.0	20460.6	22299.2	22646.8
60°	347.5	431.6	291.5	274.7	476.5	1900.3	9518.4	15847.1	17725.0	18380.9
62.5°	319.5	409.2	229.8	224.2	330.7	1351.0	7825.5	13262.9	15275.4	16166.7
65°	280.3	291.5	185.0	173.8	235.4	728.7	4764.8	9131.6	11418.7	11749.4
67.5°	229.8	224.2	151.4	140.1	157.0	353.2	2102.1	4574.2	6620.3	7175.2
70°	185.0	185.0	128.9	112.1	112.1	162.6	549.4	1821.8	2993.4	3312.9
72.5°	134.5	140.1	100.9	89.7	84.1	78.5	89.7	364.4	784.8	1003.4
75°	117.7	123.3	100.9	78.5	61.7	50.5	39.2	33.6	44.8	72.9
77.5°	128.9	128.9	106.5	72.9	56.1	39.2	22.4	11.2	11.2	5.6
80°	162.6	168.2	140.1	95.3	67.3	44.8	28.0	11.2	5.6	5.6
82.5°	173.8	190.6	157.0	117.7	84.1	50.5	28.0	5.6	0.0	0.0
85°	44.8	72.9	123.3	106.5	84.1	50.5	28.0	5.6	0.0	0.0
87.5°	0.0	5.6	16.8	16.8	22.4	22.4	16.8	5.6	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)