

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: P534293

Luminaire Tested: **GALN-SA9D-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534293
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-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 36116 lumens
Efficiency: N/A
Efficacy: 65.4 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

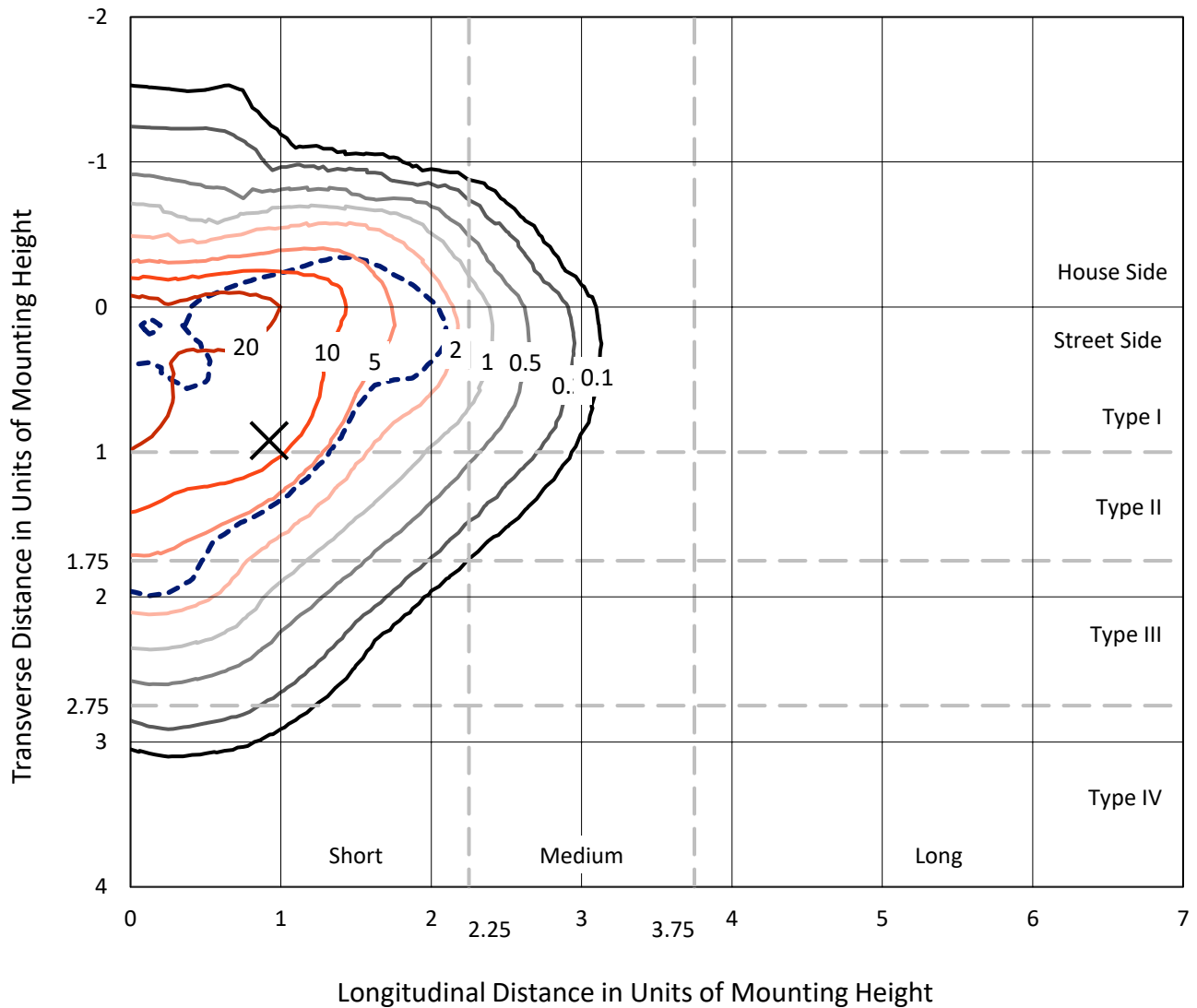
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

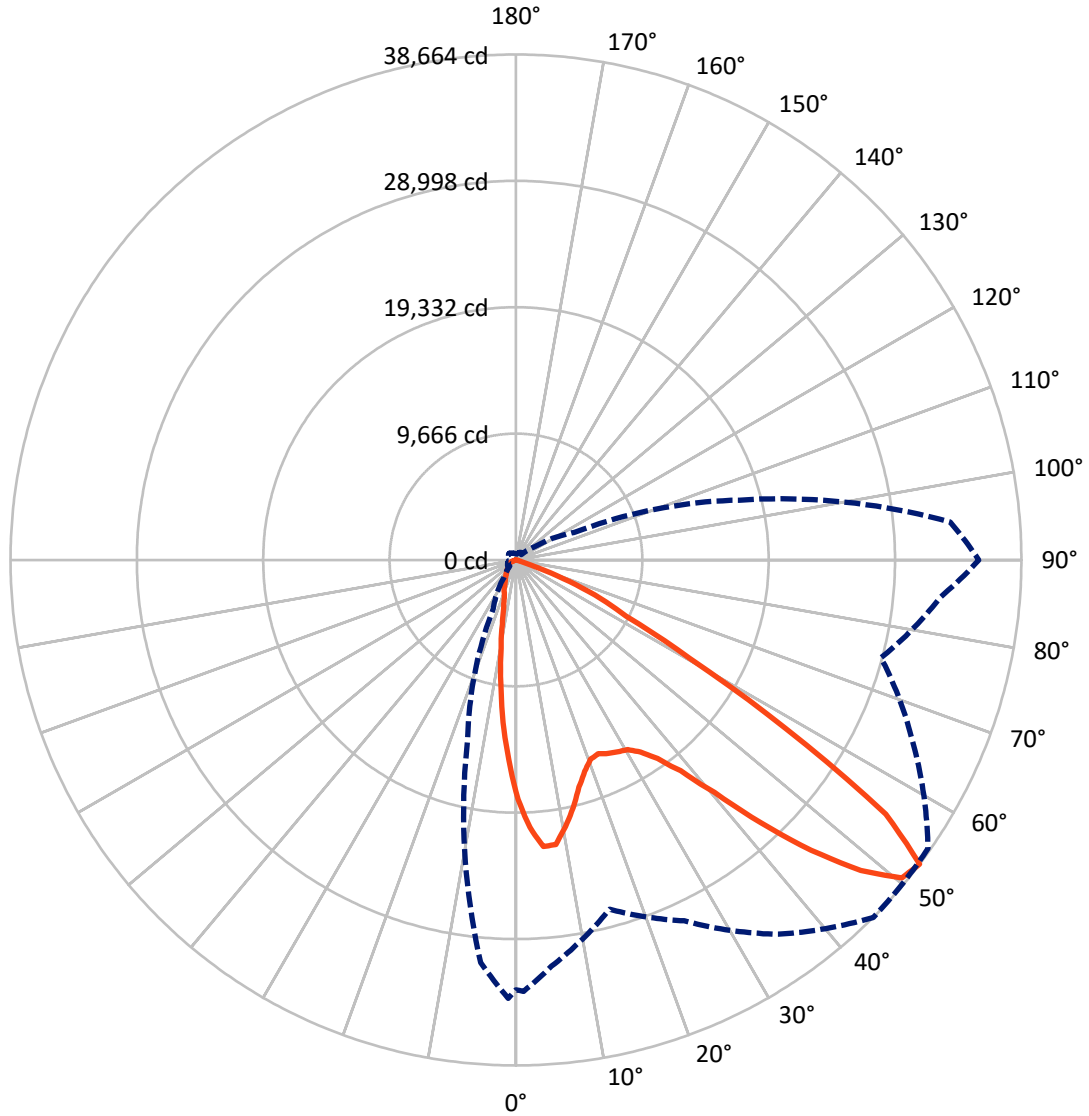
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7329.8	0.0	7329.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	28786.2	0.0	28786.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	36116.0	0.0	36116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1335.5	3.7
10°-20°	2634.9	7.3
20°-30°	4009.9	11.1
30°-40°	5993.2	16.6
40°-50°	8534.9	23.6
50°-60°	9174.8	25.4
60°-70°	4065.5	11.3
70°-80°	328.9	0.9
80°-90°	38.3	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°	36116.0	100.0
0°-180°	36116.0	100.0

Coefficient of Utilization



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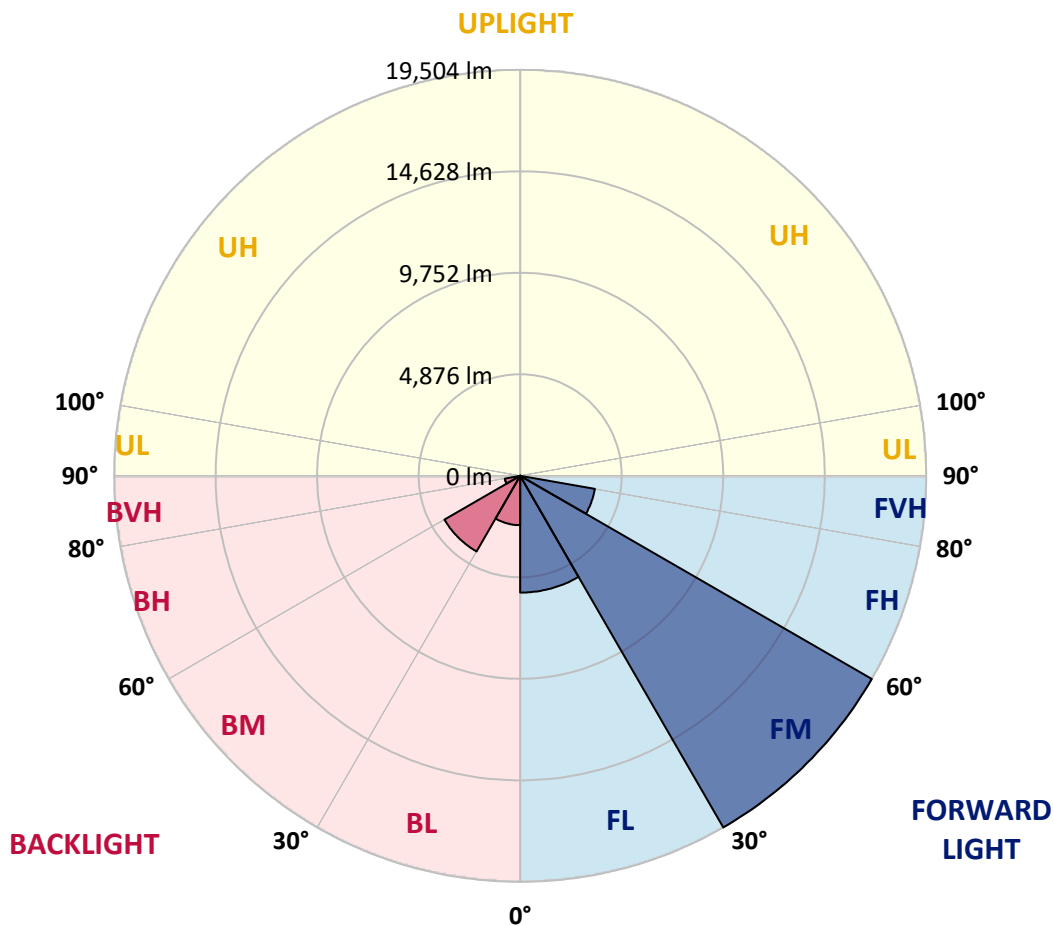
CATALOG NUMBER: GALN-SA9D-735-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5609.6	15.5			
FM (30°-60°)	19503.8	54.0			
FH (60°-80°)	3644.5	10.1			G2/5000
FVH (80°-90°)	28.4	0.1			G1/100
BL (0°-30°)	2370.7	6.6	B3/2500		
BM (30°-60°)	4199.1	11.6	B3/5000		
BH (60°-80°)	749.9	2.1	B2/1000		G2/1000
BVH (80°-90°)	9.9	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°	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5
2.5°	19378.0	19434.8	19747.4	20138.1	20344.1	20812.9	20486.1	20571.4	20393.8	19768.7	19278.5
5°	18788.4	18781.3	19179.1	20145.2	21061.5	21992.0	22020.5	21523.2	20649.5	19690.5	18319.6
7.5°	17012.6	17289.6	17701.6	19243.0	20940.7	21636.9	21970.7	21388.3	20045.7	18674.8	17190.2
10°	15670.0	15812.1	16508.2	18369.3	19612.4	20542.9	20748.9	20415.1	19385.1	17673.2	16011.0
12.5°	14895.8	14966.8	15783.7	17346.4	18660.6	19349.6	19449.0	19605.3	18866.6	17261.2	15265.1
15°	14902.9	14959.7	16060.7	17367.7	17886.3	17701.6	18028.4	18021.3	18340.9	17183.1	15890.2
17.5°	15975.5	16039.4	17033.9	17680.3	17453.0	17019.7	16998.4	17325.1	17999.9	18156.2	16835.0
20°	17822.4	17971.5	18703.2	18667.7	17389.1	16515.3	16273.8	16522.4	18092.3	18980.2	18738.7
22.5°	20308.5	20514.5	21026.0	20045.7	17680.3	16174.4	16096.2	16579.3	18703.2	20820.0	20898.1
25°	23192.5	23540.6	23789.2	22531.9	18717.4	16764.0	16394.6	17225.7	19527.2	22816.0	23647.1
27.5°	25103.3	25465.6	25408.8	23611.6	19413.5	16920.2	16607.7	17381.9	20244.6	23292.0	25082.0
30°	26595.0	26815.2	27213.0	24194.1	20109.6	17360.6	16827.9	18042.6	20479.0	24115.9	26815.2
32.5°	28335.3	28484.5	28512.9	25224.1	21182.3	17914.7	17509.8	18866.6	21516.1	24904.4	28349.6
35°	30089.9	30310.1	29848.4	26495.6	21842.9	18944.7	18646.3	20294.3	22347.2	25721.3	30040.2
37.5°	31993.6	32107.2	31041.7	27021.2	22787.6	20621.1	20457.7	21835.8	23789.2	27198.8	31915.4
40°	33591.8	33698.4	32313.2	27667.6	23782.1	22965.2	23384.3	24776.6	25749.7	28157.8	32853.1
42.5°	34479.8	34728.4	32739.4	27312.5	25778.1	25621.9	27482.9	27973.1	28022.8	28427.7	33691.3
45°	34721.3	34607.6	32036.2	27603.7	27525.6	29990.4	31681.0	32327.4	30281.7	28924.9	33904.4
47.5°	33606.0	33755.2	30999.1	27348.0	29820.0	33300.6	35488.4	36688.9	31965.2	28491.6	33378.7
50°	32703.9	32512.1	30665.3	27163.3	30437.9	34863.3	38237.4	38507.4	33513.7	29024.4	32803.4
52.5°	32881.5	33002.3	31198.0	27653.4	30452.2	34955.7	38663.6	38479.0	33563.4	28903.6	32597.4
55°	33258.0	32725.2	30970.7	26573.7	28413.5	32377.2	34316.4	34032.3	30977.8	27617.9	32093.0
57.5°	28697.6	29521.6	28477.4	23725.3	23320.4	24393.0	24357.5	25231.2	23107.3	23767.9	29216.2
60°	23292.0	23434.0	23824.7	20294.3	16138.9	15769.5	15258.0	14704.0	15549.3	20322.7	26573.7
62.5°	20486.1	20315.6	21707.9	18461.7	11393.8	9539.8	9454.6	9795.5	11997.6	19385.1	24925.7
65°	14888.7	15101.8	16110.4	14327.5	8552.5	7281.0	7153.1	8161.8	9710.3	15535.1	19022.8
67.5°	9092.3	9504.3	9596.7	8836.6	5803.5	4610.1	4425.4	5341.7	7011.0	10051.3	11152.3
70°	4198.1	4695.3	5164.2	4823.2	3359.9	1896.6	1790.0	2244.7	3537.5	5782.1	5917.1
72.5°	1271.5	1278.6	1790.0	1868.2	1086.8	426.2	376.5	497.2	1200.5	1910.8	2010.3
75°	92.3	99.4	241.5	277.0	206.0	106.6	113.7	135.0	255.7	426.2	319.7
77.5°	7.1	7.1	7.1	35.5	63.9	71.0	92.3	106.6	135.0	156.3	142.1
80°	7.1	0.0	7.1	28.4	49.7	71.0	85.2	99.4	106.6	120.8	106.6
82.5°	0.0	0.0	0.0	21.3	49.7	71.0	78.1	106.6	120.8	142.1	120.8
85°	0.0	0.0	0.0	21.3	49.7	78.1	71.0	35.5	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°	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5
2.5°	19363.8	19086.8	18454.6	18134.9	17381.9	17275.4	16536.6	16415.9	16167.3	16032.3	15705.6
5°	17715.8	17381.9	16352.0	15485.3	14476.7	13773.4	13233.6	12743.4	12459.3	12196.5	12317.2
7.5°	16373.3	15400.1	14256.5	12807.4	11642.4	10889.5	10065.5	9390.7	8992.9	8722.9	8786.9
10°	14966.8	14334.6	12743.4	11116.8	9710.3	9177.6	8531.1	8012.6	7451.4	6968.4	6741.1
12.5°	14526.4	13588.7	11592.7	9937.6	8872.1	8353.6	7614.8	7018.1	6300.7	5711.1	5505.1
15°	14604.5	13702.4	11280.2	9511.4	8254.1	7359.1	6478.3	5739.5	4951.0	4539.1	4326.0
17.5°	15876.0	14313.3	11486.2	9063.9	7394.6	6151.5	5064.7	4127.1	3537.5	3111.3	3018.9
20°	17438.8	15634.5	11926.6	8737.1	6691.4	4894.2	3700.9	2891.1	2400.9	2329.9	2308.6
22.5°	19726.1	17793.9	12871.3	8516.9	5831.9	3814.5	2535.9	2102.6	1967.6	1953.4	1960.5
25°	22922.6	20500.3	13901.3	8332.3	5185.5	2940.8	2074.2	1782.9	1740.3	1719.0	1754.5
27.5°	24307.7	22134.1	14448.3	7934.5	4595.9	2649.6	2045.8	1768.7	1648.0	1612.5	1633.8
30°	26019.6	23220.9	15307.8	7252.5	3729.3	2180.7	1910.8	1925.0	1868.2	1690.6	1633.8
32.5°	28292.7	24577.7	15741.1	6769.5	3331.5	1804.3	1399.4	1285.7	1434.9	1463.3	1513.0
35°	29748.9	25955.7	15961.3	6485.4	3125.5	1541.4	1186.3	1079.7	1044.2	1051.3	1079.7
37.5°	32455.3	27816.8	16238.3	6187.0	2969.2	1342.5	1072.6	973.2	923.4	923.4	951.9
40°	34074.9	29294.3	16614.8	6023.7	2812.9	1221.8	973.2	887.9	845.3	845.3	859.5
42.5°	34479.8	30025.9	16486.9	5966.8	2635.4	1193.4	887.9	824.0	774.3	767.2	760.1
45°	35204.3	31141.2	16508.2	5902.9	2450.7	1086.8	838.2	767.2	696.1	689.0	681.9
47.5°	35999.9	31943.9	16550.9	5654.3	2273.1	909.2	873.7	710.3	625.1	610.9	610.9
50°	35318.0	32583.2	16920.2	5405.7	2045.8	738.8	859.5	667.7	554.1	532.8	539.9
52.5°	35403.2	33336.1	17701.6	5057.6	1761.6	589.6	696.1	632.2	504.3	468.8	475.9
55°	34039.4	32540.5	17808.2	4688.2	1378.1	454.6	532.8	554.1	426.2	412.0	412.0
57.5°	29301.4	27554.0	15712.7	3800.3	909.2	376.5	383.6	483.0	369.4	355.2	362.3
60°	25074.9	22119.9	12644.0	2507.5	568.3	298.3	277.0	490.1	326.8	319.7	341.0
62.5°	22858.6	18177.5	9589.6	1555.6	390.7	227.3	191.8	397.8	284.1	284.1	312.5
65°	16515.3	12210.7	5576.1	816.9	277.0	177.6	142.1	227.3	234.4	241.5	255.7
67.5°	10228.9	6165.7	2351.2	397.8	184.7	120.8	92.3	142.1	156.3	156.3	170.5
70°	5050.5	2457.8	781.4	227.3	142.1	99.4	63.9	78.1	78.1	71.0	78.1
72.5°	1562.7	738.8	198.9	142.1	99.4	63.9	35.5	28.4	14.2	0.0	7.1
75°	177.6	142.1	127.9	99.4	63.9	28.4	7.1	0.0	0.0	0.0	0.0
77.5°	106.6	120.8	120.8	99.4	63.9	21.3	0.0	0.0	0.0	0.0	0.0
80°	85.2	92.3	99.4	92.3	56.8	28.4	0.0	0.0	0.0	0.0	0.0
82.5°	106.6	120.8	135.0	120.8	78.1	35.5	14.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	21.3	7.1	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°	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5
2.5°	15570.6	15414.3	15634.5	15307.8	15300.7	15307.8	15215.4	15130.2	15265.1	15627.4	15662.9
5°	11883.9	12217.8	12324.3	12672.4	12480.6	12196.5	12253.3	12061.5	12530.3	12736.3	12573.0
7.5°	8651.9	8630.6	9348.0	9390.7	9483.0	9490.1	9475.9	9099.4	8715.8	8801.1	9056.8
10°	6712.7	6350.4	6698.5	6663.0	6890.3	6826.3	6918.7	6513.8	6648.8	6648.8	6812.1
12.5°	5469.6	5086.0	5022.1	4929.7	5022.1	5057.6	5093.1	5015.0	5242.3	5348.8	5462.5
15°	4176.8	3963.7	3906.9	3729.3	3757.7	3857.1	3942.4	3977.9	3906.9	4070.2	4084.4
17.5°	3033.1	3026.0	3061.6	3054.4	3026.0	3004.7	2997.6	2905.3	2876.9	2891.1	2947.9
20°	2301.5	2358.3	2479.1	2599.8	2663.8	2585.6	2479.1	2322.8	2258.9	2273.1	2280.2
22.5°	1967.6	2052.9	2216.3	2351.2	2415.1	2273.1	2081.3	1946.3	1917.9	1910.8	1903.7
25°	1782.9	1882.4	2003.2	2045.8	2038.7	1953.4	1811.4	1754.5	1740.3	1726.1	1662.2
27.5°	1683.5	1719.0	1740.3	1790.0	1811.4	1754.5	1719.0	1633.8	1619.6	1619.6	1576.9
30°	1626.7	1605.4	1633.8	1598.3	1626.7	1584.1	1591.2	1591.2	1555.6	1569.8	1569.8
32.5°	1513.0	1520.1	1520.1	1449.1	1470.4	1420.7	1470.4	1513.0	1520.1	1527.2	1584.1
35°	1108.1	1236.0	1299.9	1299.9	1321.2	1285.7	1278.6	1228.9	1165.0	1101.0	1072.6
37.5°	973.2	1022.9	1108.1	1157.8	1193.4	1165.0	1101.0	1022.9	987.4	959.0	930.5
40°	866.6	909.2	966.1	1022.9	1093.9	1058.4	959.0	923.4	880.8	880.8	852.4
42.5°	781.4	802.7	838.2	923.4	1001.6	930.5	859.5	831.1	809.8	802.7	795.6
45°	703.2	710.3	745.9	816.9	909.2	838.2	767.2	731.6	738.8	745.9	738.8
47.5°	632.2	646.4	667.7	753.0	809.8	774.3	696.1	674.8	674.8	674.8	681.9
50°	547.0	582.5	625.1	696.1	738.8	717.4	653.5	625.1	610.9	610.9	618.0
52.5°	490.1	518.5	575.4	660.6	717.4	681.9	618.0	575.4	547.0	539.9	554.1
55°	426.2	475.9	568.3	632.2	710.3	674.8	603.8	554.1	504.3	497.2	497.2
57.5°	383.6	461.7	547.0	625.1	689.0	660.6	603.8	539.9	475.9	468.8	468.8
60°	362.3	447.5	532.8	603.8	689.0	646.4	596.7	525.6	454.6	454.6	447.5
62.5°	341.0	419.1	504.3	575.4	660.6	625.1	575.4	504.3	433.3	433.3	419.1
65°	284.1	362.3	419.1	483.0	575.4	539.9	490.1	440.4	383.6	369.4	376.5
67.5°	198.9	248.6	305.4	369.4	426.2	412.0	390.7	355.2	305.4	298.3	291.2
70°	99.4	135.0	184.7	248.6	298.3	284.1	269.9	241.5	213.1	206.0	206.0
72.5°	14.2	42.6	78.1	113.7	156.3	163.4	156.3	149.2	142.1	135.0	142.1
75°	0.0	0.0	0.0	28.4	63.9	78.1	92.3	106.6	106.6	92.3	113.7
77.5°	0.0	0.0	0.0	0.0	7.1	35.5	71.0	92.3	113.7	99.4	135.0
80°	0.0	0.0	0.0	0.0	7.1	42.6	71.0	99.4	113.7	99.4	142.1
82.5°	0.0	0.0	0.0	0.0	7.1	49.7	71.0	92.3	106.6	99.4	127.9
85°	0.0	0.0	0.0	0.0	21.3	42.6	28.4	14.2	7.1	7.1	21.3
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: P534293

CATALOG NUMBER: GALN-SA9D-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5	18312.5
2.5°	15861.8	16366.2	16906.0	17112.0	17751.3	18234.4	18561.1	19264.3	19370.9	19378.0
5°	12743.4	12999.2	13922.6	14355.9	15307.8	16046.5	16835.0	17971.5	18731.6	18788.4
7.5°	9056.8	9767.1	10157.8	11287.3	12459.3	13617.2	14789.2	16110.4	16991.3	17012.6
10°	7288.1	7749.8	8445.9	9291.2	10278.6	11457.7	13020.5	14554.8	15449.8	15670.0
12.5°	5867.4	6677.2	7472.7	8346.5	9099.4	9987.3	11670.8	13716.6	14455.4	14895.8
15°	4517.7	5256.5	6194.1	7217.0	8069.4	9255.7	11173.6	13510.6	14753.7	14902.9
17.5°	3331.5	3992.1	4858.7	5824.8	7103.4	8786.9	11258.8	14554.8	15726.9	15975.5
20°	2393.8	2777.4	3459.3	4581.7	6208.3	8239.9	11344.1	15613.2	17396.2	17822.4
22.5°	1896.6	2052.9	2500.4	3494.9	5206.8	7664.5	11947.9	17637.7	19690.5	20308.5
25°	1648.0	1733.2	1946.3	2756.1	4574.6	7607.7	12913.9	20067.0	22745.0	23192.5
27.5°	1591.2	1605.4	1790.0	2528.8	4233.6	7231.2	13283.3	21793.1	24648.7	25103.3
30°	1676.4	1903.7	1917.9	2138.1	3601.4	6485.4	13475.1	23462.4	26261.2	26595.0
32.5°	1449.1	1378.1	1427.8	1655.1	3168.1	6052.1	13837.4	24918.6	28100.9	28335.3
35°	1008.7	1058.4	1172.1	1434.9	2770.3	5597.5	13929.7	26524.0	29848.4	30089.9
37.5°	930.5	959.0	1051.3	1221.8	2436.5	5341.7	13801.9	27696.0	31659.7	31993.6
40°	866.6	902.1	951.9	1108.1	2187.8	5057.6	13624.3	28754.4	32767.9	33591.8
42.5°	816.9	845.3	887.9	1058.4	1974.7	4773.5	13375.6	30246.2	33762.3	34479.8
45°	760.1	802.7	852.4	1030.0	1854.0	4581.7	13191.0	30153.8	34337.7	34721.3
47.5°	703.2	774.3	831.1	959.0	1818.5	4489.3	13269.1	29805.7	33868.9	33606.0
50°	646.4	738.8	838.2	795.6	1733.2	4304.6	13361.4	30281.7	32753.6	32703.9
52.5°	596.7	703.2	781.4	653.5	1541.4	4127.1	14256.5	30906.8	33542.1	32881.5
55°	525.6	632.2	625.1	525.6	1250.2	3992.1	14959.7	30921.0	33009.4	33258.0
57.5°	475.9	561.2	490.1	440.4	923.4	3338.6	13816.1	25927.3	28257.2	28697.6
60°	440.4	547.0	369.4	348.1	603.8	2408.0	12061.5	20081.2	22460.9	23292.0
62.5°	404.9	518.5	291.2	284.1	419.1	1711.9	9916.3	16806.6	19356.7	20486.1
65°	355.2	369.4	234.4	220.2	298.3	923.4	6037.9	11571.4	14469.6	14888.7
67.5°	291.2	284.1	191.8	177.6	198.9	447.5	2663.8	5796.4	8389.1	9092.3
70°	234.4	234.4	163.4	142.1	142.1	206.0	696.1	2308.6	3793.2	4198.1
72.5°	170.5	177.6	127.9	113.7	106.6	99.4	113.7	461.7	994.5	1271.5
75°	149.2	156.3	127.9	99.4	78.1	63.9	49.7	42.6	56.8	92.3
77.5°	163.4	163.4	135.0	92.3	71.0	49.7	28.4	14.2	14.2	7.1
80°	206.0	213.1	177.6	120.8	85.2	56.8	35.5	14.2	7.1	7.1
82.5°	220.2	241.5	198.9	149.2	106.6	63.9	35.5	7.1	0.0	0.0
85°	56.8	92.3	156.3	135.0	106.6	63.9	35.5	7.1	0.0	0.0
87.5°	0.0	7.1	21.3	21.3	28.4	28.4	21.3	7.1	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)