

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: P532421

Luminaire Tested: **GALN-SA7D-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532421
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-SA7D-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 27749 lumens
Efficiency: N/A
Efficacy: 64.1 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

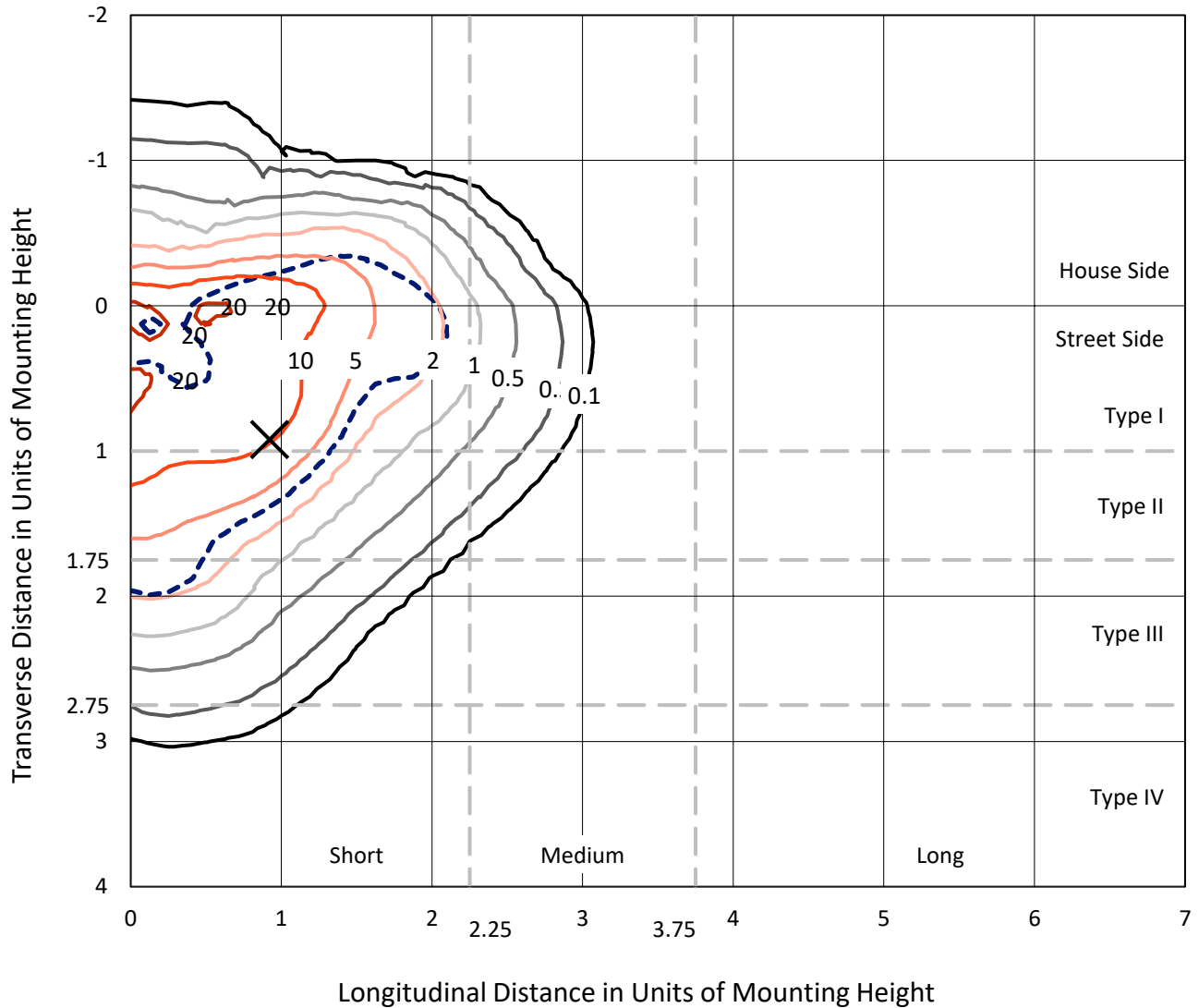
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

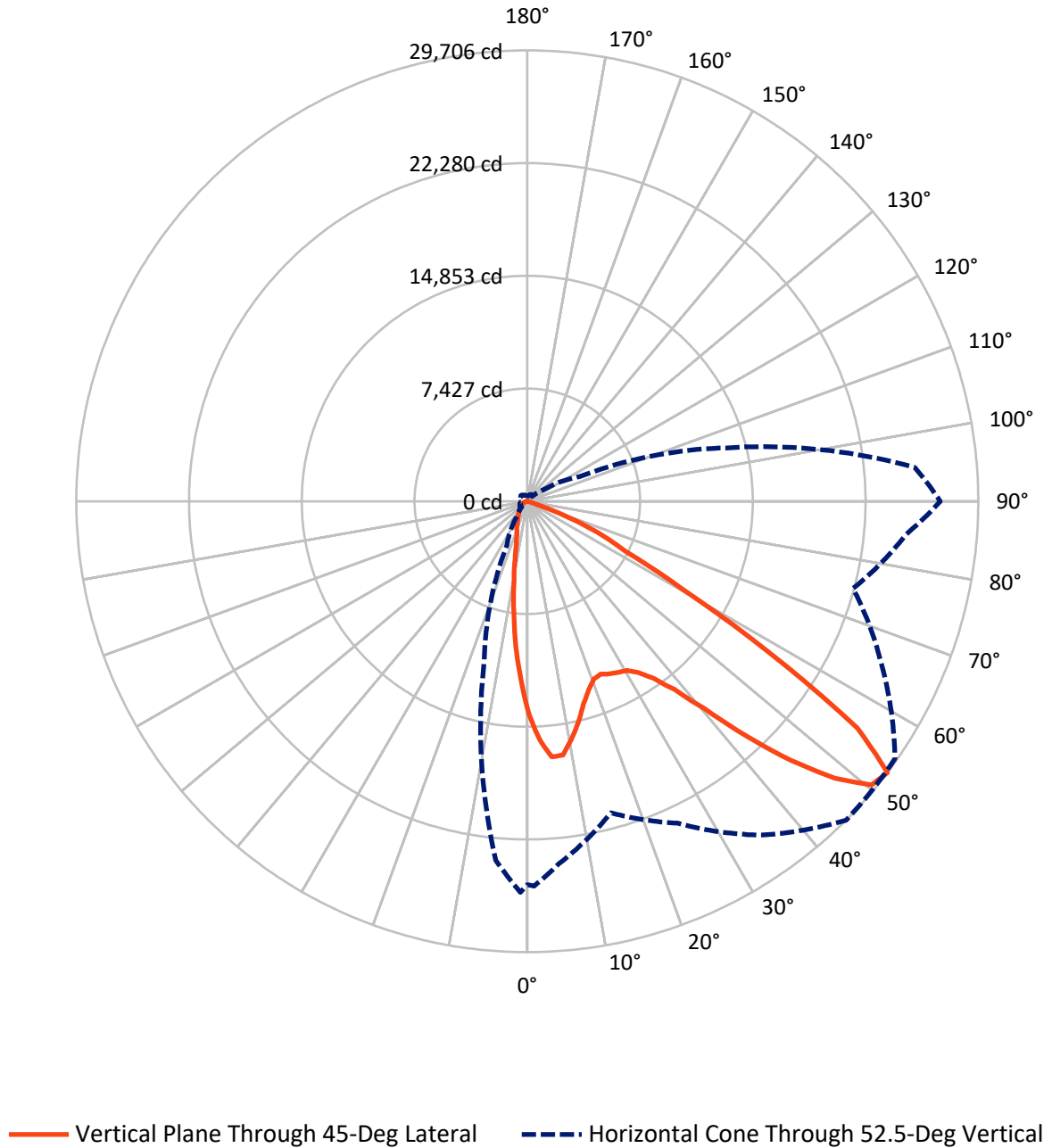
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.3 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	5631.7	0.0	5631.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	22117.3	0.0	22117.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	27749.0	0.0	27749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1026.1	3.7
10°-20°	2024.5	7.3
20°-30°	3080.9	11.1
30°-40°	4604.8	16.6
40°-50°	6557.6	23.6
50°-60°	7049.2	25.4
60°-70°	3123.7	11.3
70°-80°	252.7	0.9
80°-90°	29.5	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°	27749.0	100.0
0°-180°	27749.0	100.0

Coefficient of Utilization



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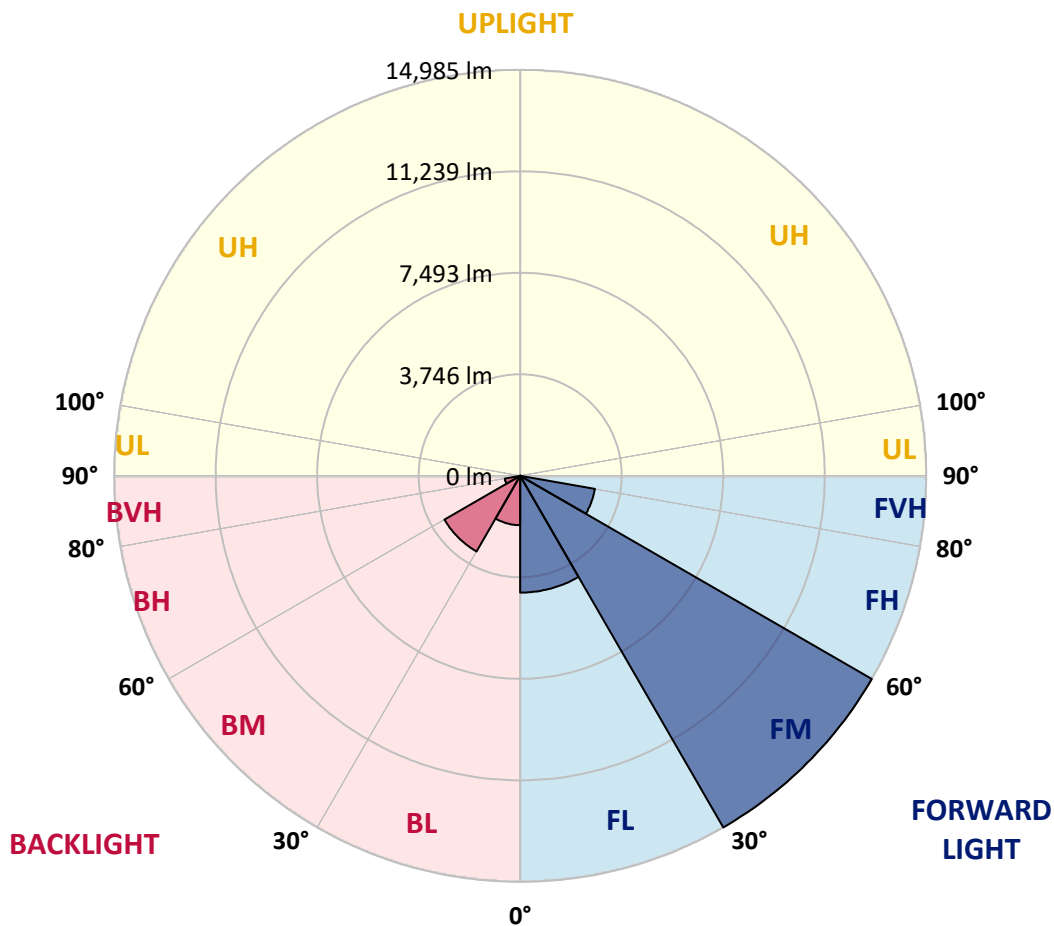
CATALOG NUMBER: GALN-SA7D-735-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4310.0	15.5			
FM (30°-60°)	14985.3	54.0			
FH (60°-80°)	2800.2	10.1			G2/5000
FVH (80°-90°)	21.8	0.1			G1/100
BL (0°-30°)	1821.5	6.6	B3/2500		
BM (30°-60°)	3226.3	11.6	B3/5000		
BH (60°-80°)	576.2	2.1	B2/1000		G2/1000
BVH (80°-90°)	7.6	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°	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0
2.5°	14888.7	14932.4	15172.5	15472.7	15630.9	15991.2	15740.1	15805.6	15669.1	15188.9	14812.3
5°	14435.7	14430.2	14735.9	15478.1	16182.2	16897.1	16919.0	16536.9	15865.6	15128.8	14075.5
7.5°	13071.3	13284.1	13600.7	14785.0	16089.4	16624.3	16880.8	16433.2	15401.7	14348.4	13207.7
10°	12039.8	12148.9	12683.8	14113.7	15068.8	15783.8	15942.0	15685.5	14894.2	13578.8	12301.7
12.5°	11444.9	11499.4	12127.1	13327.8	14337.5	14866.9	14943.3	15063.3	14495.7	13262.3	11728.7
15°	11450.3	11494.0	12339.9	13344.2	13742.6	13600.7	13851.7	13846.3	14091.9	13202.3	12208.9
17.5°	12274.4	12323.6	13087.6	13584.3	13409.6	13076.7	13060.4	13311.4	13829.9	13950.0	12934.8
20°	13693.4	13808.1	14370.2	14342.9	13360.5	12689.2	12503.7	12694.7	13900.8	14583.1	14397.5
22.5°	15603.7	15761.9	16154.9	15401.7	13584.3	12427.3	12367.2	12738.3	14370.2	15996.6	16056.6
25°	17819.5	18086.9	18277.9	17311.9	14381.1	12880.2	12596.4	13235.0	15003.3	17530.2	18168.8
27.5°	19287.6	19566.0	19522.3	18141.5	14916.0	13000.3	12760.2	13355.1	15554.5	17895.9	19271.3
30°	20433.7	20602.9	20908.6	18589.0	15450.8	13338.7	12929.4	13862.6	15734.6	18529.0	20602.9
32.5°	21770.9	21885.5	21907.3	19380.4	16275.0	13764.4	13453.3	14495.7	16531.5	19134.8	21781.8
35°	23119.0	23288.1	22933.4	20357.3	16782.5	14555.8	14326.5	15592.7	17170.0	19762.4	23080.7
37.5°	24581.6	24668.9	23850.3	20761.2	17508.4	15843.8	15718.3	16777.1	18277.9	20897.7	24521.6
40°	25809.6	25891.5	24827.2	21257.9	18272.5	17644.8	17966.9	19036.6	19784.3	21634.4	25242.0
42.5°	26491.8	26682.9	25154.7	20985.0	19806.1	19686.0	21116.0	21492.5	21530.8	21841.8	25886.0
45°	26677.4	26590.1	24614.4	21208.7	21148.7	23042.5	24341.5	24838.1	23266.3	22223.9	26049.8
47.5°	25820.5	25935.1	23817.5	21012.3	22911.6	25585.8	27266.8	28189.2	24559.8	21891.0	25645.9
50°	25127.4	24980.0	23561.0	20870.4	23386.4	26786.5	29379.0	29586.4	25749.6	22300.3	25203.8
52.5°	25263.8	25356.6	23970.4	21247.0	23397.3	26857.5	29706.4	29564.5	25787.8	22207.5	25045.5
55°	25553.1	25143.8	23795.7	20417.4	21830.9	24876.3	26366.3	26148.0	23801.2	21219.7	24658.0
57.5°	22049.2	22682.3	21880.0	18228.8	17917.7	18741.9	18714.6	19385.9	17754.0	18261.6	22447.7
60°	17895.9	18005.1	18305.2	15592.7	12400.0	12116.2	11723.2	11297.5	11947.0	15614.6	20417.4
62.5°	15740.1	15609.1	16678.8	14184.6	8754.2	7329.7	7264.2	7526.2	9218.1	14894.2	19151.2
65°	11439.4	11603.1	12378.1	11008.2	6571.1	5594.2	5495.9	6270.9	7460.7	11936.1	14615.8
67.5°	6985.9	7302.4	7373.4	6789.4	4459.0	3542.1	3400.2	4104.2	5386.8	7722.7	8568.6
70°	3225.5	3607.6	3967.8	3705.8	2581.5	1457.2	1375.3	1724.6	2718.0	4442.6	4546.3
72.5°	976.9	982.4	1375.3	1435.4	835.0	327.5	289.3	382.0	922.4	1468.1	1544.5
75°	71.0	76.4	185.6	212.9	158.3	81.9	87.3	103.7	196.5	327.5	245.6
77.5°	5.5	5.5	5.5	27.3	49.1	54.6	71.0	81.9	103.7	120.1	109.2
80°	5.5	0.0	5.5	21.8	38.2	54.6	65.5	76.4	81.9	92.8	81.9
82.5°	0.0	0.0	0.0	16.4	38.2	54.6	60.0	81.9	92.8	109.2	92.8
85°	0.0	0.0	0.0	16.4	38.2	60.0	54.6	27.3	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°	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0
2.5°	14877.8	14664.9	14179.2	13933.6	13355.1	13273.2	12705.6	12612.8	12421.8	12318.1	12067.0
5°	13611.6	13355.1	12563.7	11897.9	11122.9	10582.5	10167.8	9791.2	9572.9	9370.9	9463.7
7.5°	12580.1	11832.4	10953.7	9840.3	8945.2	8366.7	7733.6	7215.1	6909.5	6702.1	6751.2
10°	11499.4	11013.7	9791.2	8541.4	7460.7	7051.4	6554.7	6156.3	5725.2	5354.0	5179.4
12.5°	11161.1	10440.6	8907.0	7635.4	6816.7	6418.3	5850.7	5392.2	4841.0	4388.0	4229.7
15°	11221.1	10528.0	8666.9	7307.9	6341.9	5654.2	4977.5	4409.8	3804.0	3487.5	3323.8
17.5°	12198.0	10997.3	8825.2	6964.1	5681.5	4726.4	3891.4	3170.9	2718.0	2390.5	2319.5
20°	13398.7	12012.5	9163.5	6713.0	5141.2	3760.4	2843.5	2221.3	1844.7	1790.1	1773.8
22.5°	15156.1	13671.6	9889.4	6543.8	4480.8	2930.8	1948.4	1615.5	1511.8	1500.9	1506.3
25°	17612.1	15751.0	10680.8	6401.9	3984.1	2259.5	1593.7	1369.9	1337.1	1320.8	1348.1
27.5°	18676.4	17006.3	11101.0	6096.3	3531.2	2035.7	1571.8	1359.0	1266.2	1238.9	1255.3
30°	19991.7	17841.3	11761.4	5572.3	2865.3	1675.5	1468.1	1479.0	1435.4	1298.9	1255.3
32.5°	21738.1	18883.8	12094.3	5201.2	2559.7	1386.3	1075.2	987.8	1102.5	1124.3	1162.5
35°	22857.0	19942.6	12263.5	4982.9	2401.4	1184.3	911.4	829.6	802.3	807.7	829.6
37.5°	24936.4	21372.5	12476.4	4753.7	2281.3	1031.5	824.1	747.7	709.5	709.5	731.3
40°	26180.7	22507.7	12765.6	4628.2	2161.3	938.7	747.7	682.2	649.5	649.5	660.4
42.5°	26491.8	23069.8	12667.4	4584.5	2024.8	916.9	682.2	633.1	594.9	589.4	584.0
45°	27048.5	23926.7	12683.8	4535.4	1882.9	835.0	644.0	589.4	534.9	529.4	523.9
47.5°	27659.8	24543.4	12716.5	4344.4	1746.5	698.6	671.3	545.8	480.3	469.4	469.4
50°	27135.8	25034.6	13000.3	4153.3	1571.8	567.6	660.4	513.0	425.7	409.3	414.8
52.5°	27201.3	25613.1	13600.7	3885.9	1353.5	453.0	534.9	485.7	387.5	360.2	365.7
55°	26153.5	25001.9	13682.5	3602.1	1058.8	349.3	409.3	425.7	327.5	316.5	316.5
57.5°	22513.1	21170.5	12072.5	2919.9	698.6	289.3	294.7	371.1	283.8	272.9	278.3
60°	19265.8	16995.4	9714.8	1926.6	436.6	229.2	212.9	376.6	251.1	245.6	262.0
62.5°	17563.0	13966.3	7367.9	1195.2	300.2	174.6	147.4	305.6	218.3	218.3	240.1
65°	12689.2	9381.8	4284.3	627.6	212.9	136.4	109.2	174.6	180.1	185.6	196.5
67.5°	7859.1	4737.3	1806.5	305.6	141.9	92.8	71.0	109.2	120.1	120.1	131.0
70°	3880.4	1888.4	600.4	174.6	109.2	76.4	49.1	60.0	60.0	54.6	60.0
72.5°	1200.7	567.6	152.8	109.2	76.4	49.1	27.3	21.8	10.9	0.0	5.5
75°	136.4	109.2	98.2	76.4	49.1	21.8	5.5	0.0	0.0	0.0	0.0
77.5°	81.9	92.8	92.8	76.4	49.1	16.4	0.0	0.0	0.0	0.0	0.0
80°	65.5	71.0	76.4	71.0	43.7	21.8	0.0	0.0	0.0	0.0	0.0
82.5°	81.9	92.8	103.7	92.8	60.0	27.3	10.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	16.4	5.5	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°	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0
2.5°	11963.3	11843.3	12012.5	11761.4	11756.0	11761.4	11690.5	11625.0	11728.7	12007.0	12034.3
5°	9130.8	9387.3	9469.2	9736.6	9589.2	9370.9	9414.6	9267.2	9627.4	9785.7	9660.2
7.5°	6647.5	6631.1	7182.4	7215.1	7286.1	7291.5	7280.6	6991.4	6696.6	6762.1	6958.6
10°	5157.6	4879.2	5146.6	5119.4	5294.0	5244.9	5315.8	5004.7	5108.4	5108.4	5234.0
12.5°	4202.5	3907.7	3858.6	3787.7	3858.6	3885.9	3913.2	3853.2	4027.8	4109.7	4197.0
15°	3209.1	3045.4	3001.8	2865.3	2887.1	2963.5	3029.0	3056.3	3001.8	3127.3	3138.2
17.5°	2330.5	2325.0	2352.3	2346.8	2325.0	2308.6	2303.2	2232.2	2210.4	2221.3	2265.0
20°	1768.3	1812.0	1904.7	1997.5	2046.6	1986.6	1904.7	1784.7	1735.6	1746.5	1751.9
22.5°	1511.8	1577.3	1702.8	1806.5	1855.6	1746.5	1599.1	1495.4	1473.6	1468.1	1462.7
25°	1369.9	1446.3	1539.1	1571.8	1566.4	1500.9	1391.7	1348.1	1337.1	1326.2	1277.1
27.5°	1293.5	1320.8	1337.1	1375.3	1391.7	1348.1	1320.8	1255.3	1244.4	1244.4	1211.6
30°	1249.8	1233.4	1255.3	1228.0	1249.8	1217.1	1222.5	1222.5	1195.2	1206.2	1206.2
32.5°	1162.5	1168.0	1168.0	1113.4	1129.8	1091.5	1129.8	1162.5	1168.0	1173.4	1217.1
35°	851.4	949.6	998.8	998.8	1015.1	987.8	982.4	944.2	895.1	845.9	824.1
37.5°	747.7	785.9	851.4	889.6	916.9	895.1	845.9	785.9	758.6	736.8	715.0
40°	665.8	698.6	742.3	785.9	840.5	813.2	736.8	709.5	676.8	676.8	654.9
42.5°	600.4	616.7	644.0	709.5	769.5	715.0	660.4	638.6	622.2	616.7	611.3
45°	540.3	545.8	573.1	627.6	698.6	644.0	589.4	562.1	567.6	573.1	567.6
47.5°	485.7	496.7	513.0	578.5	622.2	594.9	534.9	518.5	518.5	518.5	523.9
50°	420.2	447.5	480.3	534.9	567.6	551.2	502.1	480.3	469.4	469.4	474.8
52.5°	376.6	398.4	442.1	507.6	551.2	523.9	474.8	442.1	420.2	414.8	425.7
55°	327.5	365.7	436.6	485.7	545.8	518.5	463.9	425.7	387.5	382.0	382.0
57.5°	294.7	354.8	420.2	480.3	529.4	507.6	463.9	414.8	365.7	360.2	360.2
60°	278.3	343.8	409.3	463.9	529.4	496.7	458.4	403.9	349.3	349.3	343.8
62.5°	262.0	322.0	387.5	442.1	507.6	480.3	442.1	387.5	332.9	332.9	322.0
65°	218.3	278.3	322.0	371.1	442.1	414.8	376.6	338.4	294.7	283.8	289.3
67.5°	152.8	191.0	234.7	283.8	327.5	316.5	300.2	272.9	234.7	229.2	223.8
70°	76.4	103.7	141.9	191.0	229.2	218.3	207.4	185.6	163.7	158.3	158.3
72.5°	10.9	32.7	60.0	87.3	120.1	125.5	120.1	114.6	109.2	103.7	109.2
75°	0.0	0.0	0.0	21.8	49.1	60.0	71.0	81.9	81.9	71.0	87.3
77.5°	0.0	0.0	0.0	0.0	5.5	27.3	54.6	71.0	87.3	76.4	103.7
80°	0.0	0.0	0.0	0.0	5.5	32.7	54.6	76.4	87.3	76.4	109.2
82.5°	0.0	0.0	0.0	0.0	5.5	38.2	54.6	71.0	81.9	76.4	98.2
85°	0.0	0.0	0.0	0.0	16.4	32.7	21.8	10.9	5.5	5.5	16.4
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: P532421

CATALOG NUMBER: GALN-SA7D-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0	14070.0
2.5°	12187.1	12574.6	12989.4	13147.7	13638.9	14010.0	14261.1	14801.4	14883.2	14888.7
5°	9791.2	9987.6	10697.2	11030.1	11761.4	12329.0	12934.8	13808.1	14392.0	14435.7
7.5°	6958.6	7504.4	7804.6	8672.3	9572.9	10462.5	11363.0	12378.1	13054.9	13071.3
10°	5599.6	5954.4	6489.2	7138.7	7897.3	8803.3	10004.0	11182.9	11870.6	12039.8
12.5°	4508.1	5130.3	5741.5	6412.8	6991.4	7673.6	8967.1	10538.9	11106.5	11444.9
15°	3471.1	4038.7	4759.1	5545.1	6200.0	7111.4	8585.0	10380.6	11335.7	11450.3
17.5°	2559.7	3067.2	3733.1	4475.3	5457.7	6751.2	8650.5	11182.9	12083.4	12274.4
20°	1839.3	2134.0	2657.9	3520.2	4770.1	6331.0	8716.0	11996.1	13366.0	13693.4
22.5°	1457.2	1577.3	1921.1	2685.2	4000.5	5888.9	9179.9	13551.5	15128.8	15603.7
25°	1266.2	1331.7	1495.4	2117.6	3514.8	5845.2	9922.2	15418.1	17475.7	17819.5
27.5°	1222.5	1233.4	1375.3	1943.0	3252.8	5556.0	10206.0	16744.3	18938.3	19287.6
30°	1288.0	1462.7	1473.6	1642.8	2767.1	4982.9	10353.3	18026.9	20177.2	20433.7
32.5°	1113.4	1058.8	1097.0	1271.7	2434.1	4650.0	10631.7	19145.7	21590.8	21770.9
35°	775.0	813.2	900.5	1102.5	2128.5	4300.7	10702.6	20379.2	22933.4	23119.0
37.5°	715.0	736.8	807.7	938.7	1872.0	4104.2	10604.4	21279.7	24325.1	24581.6
40°	665.8	693.1	731.3	851.4	1681.0	3885.9	10467.9	22092.9	25176.5	25809.6
42.5°	627.6	649.5	682.2	813.2	1517.2	3667.6	10276.9	23239.0	25940.6	26491.8
45°	584.0	616.7	654.9	791.4	1424.5	3520.2	10135.0	23168.1	26382.7	26677.4
47.5°	540.3	594.9	638.6	736.8	1397.2	3449.3	10195.0	22900.6	26022.5	25820.5
50°	496.7	567.6	644.0	611.3	1331.7	3307.4	10266.0	23266.3	25165.6	25127.4
52.5°	458.4	540.3	600.4	502.1	1184.3	3170.9	10953.7	23746.6	25771.4	25263.8
55°	403.9	485.7	480.3	403.9	960.6	3067.2	11494.0	23757.5	25362.1	25553.1
57.5°	365.7	431.2	376.6	338.4	709.5	2565.1	10615.3	19920.7	21710.9	22049.2
60°	338.4	420.2	283.8	267.4	463.9	1850.2	9267.2	15429.0	17257.3	17895.9
62.5°	311.1	398.4	223.8	218.3	322.0	1315.3	7619.0	12913.0	14872.3	15740.1
65°	272.9	283.8	180.1	169.2	229.2	709.5	4639.1	8890.6	11117.4	11439.4
67.5°	223.8	218.3	147.4	136.4	152.8	343.8	2046.6	4453.5	6445.6	6985.9
70°	180.1	180.1	125.5	109.2	109.2	158.3	534.9	1773.8	2914.4	3225.5
72.5°	131.0	136.4	98.2	87.3	81.9	76.4	87.3	354.8	764.1	976.9
75°	114.6	120.1	98.2	76.4	60.0	49.1	38.2	32.7	43.7	71.0
77.5°	125.5	125.5	103.7	71.0	54.6	38.2	21.8	10.9	10.9	5.5
80°	158.3	163.7	136.4	92.8	65.5	43.7	27.3	10.9	5.5	5.5
82.5°	169.2	185.6	152.8	114.6	81.9	49.1	27.3	5.5	0.0	0.0
85°	43.7	71.0	120.1	103.7	81.9	49.1	27.3	5.5	0.0	0.0
87.5°	0.0	5.5	16.4	16.4	21.8	21.8	16.4	5.5	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)