

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: P647499

Luminaire Tested: **GALN-SA6D-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647499
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-SA6D-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 19856.9 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

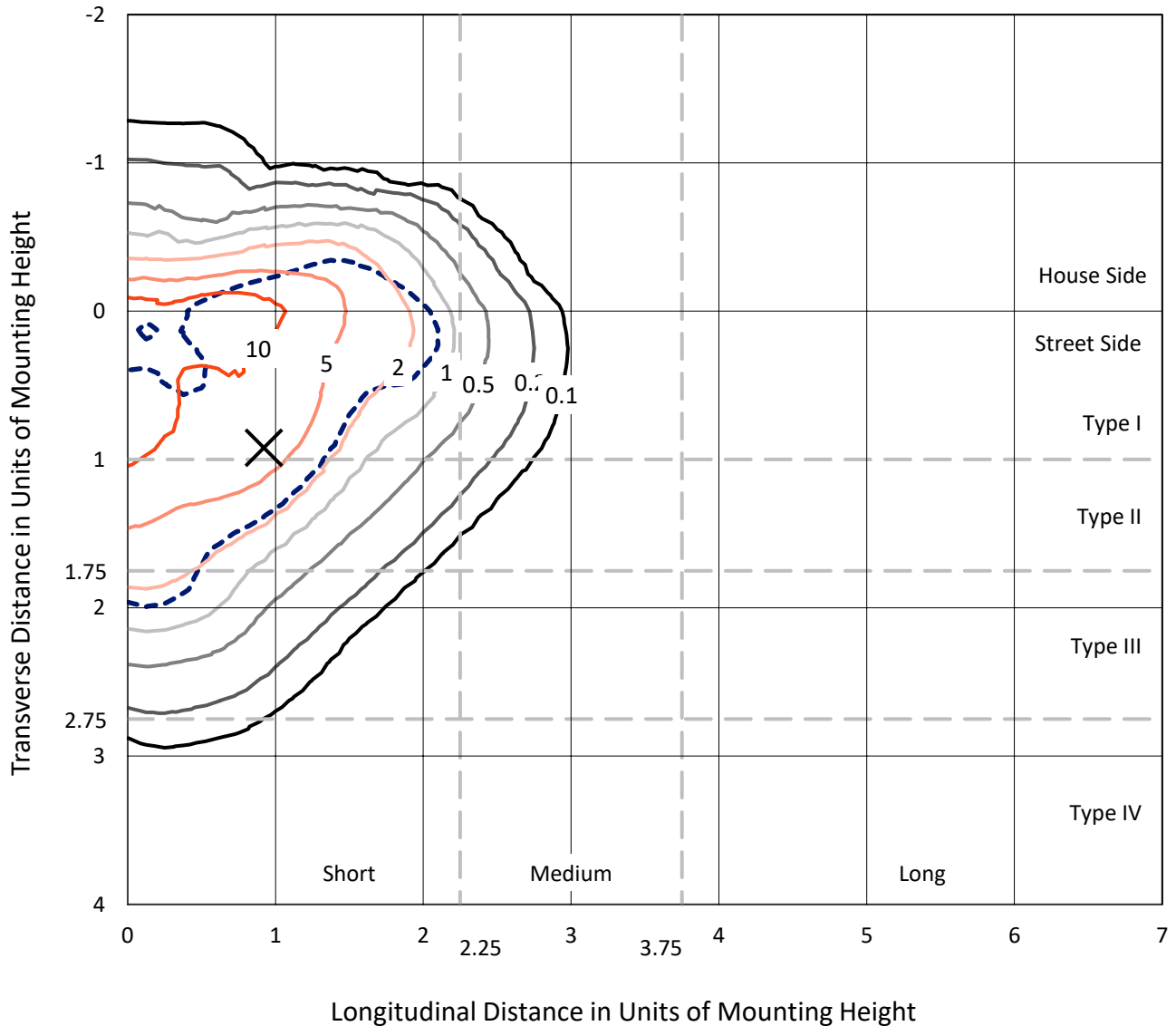
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

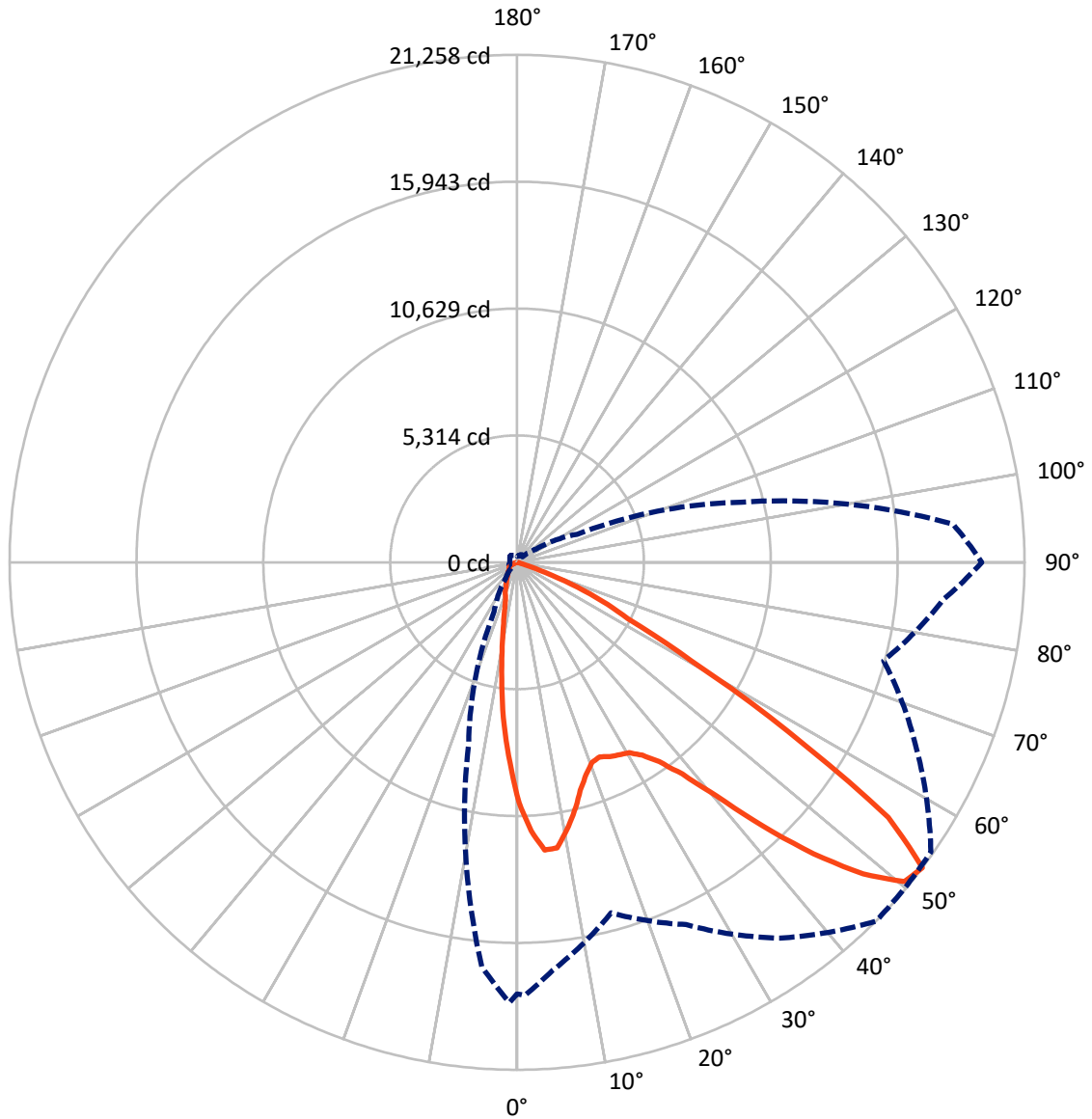
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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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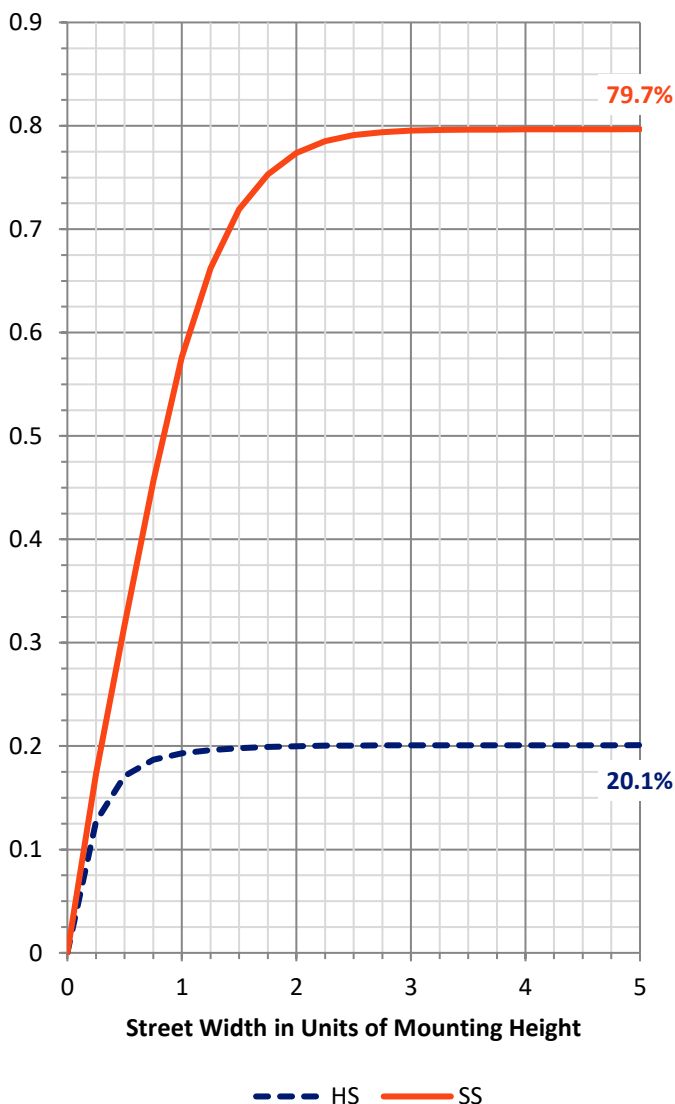
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4030.0	0.0	4030.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	15826.9	0.0	15826.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	19856.9	0.0	19856.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.3	3.7
10°-20°	1448.7	7.3
20°-30°	2204.7	11.1
30°-40°	3295.1	16.6
40°-50°	4692.6	23.6
50°-60°	5044.4	25.4
60°-70°	2235.3	11.3
70°-80°	180.9	0.9
80°-90°	21.1	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°	19856.9	100.0
0°-180°	19856.9	100.0

Coefficient of Utilization



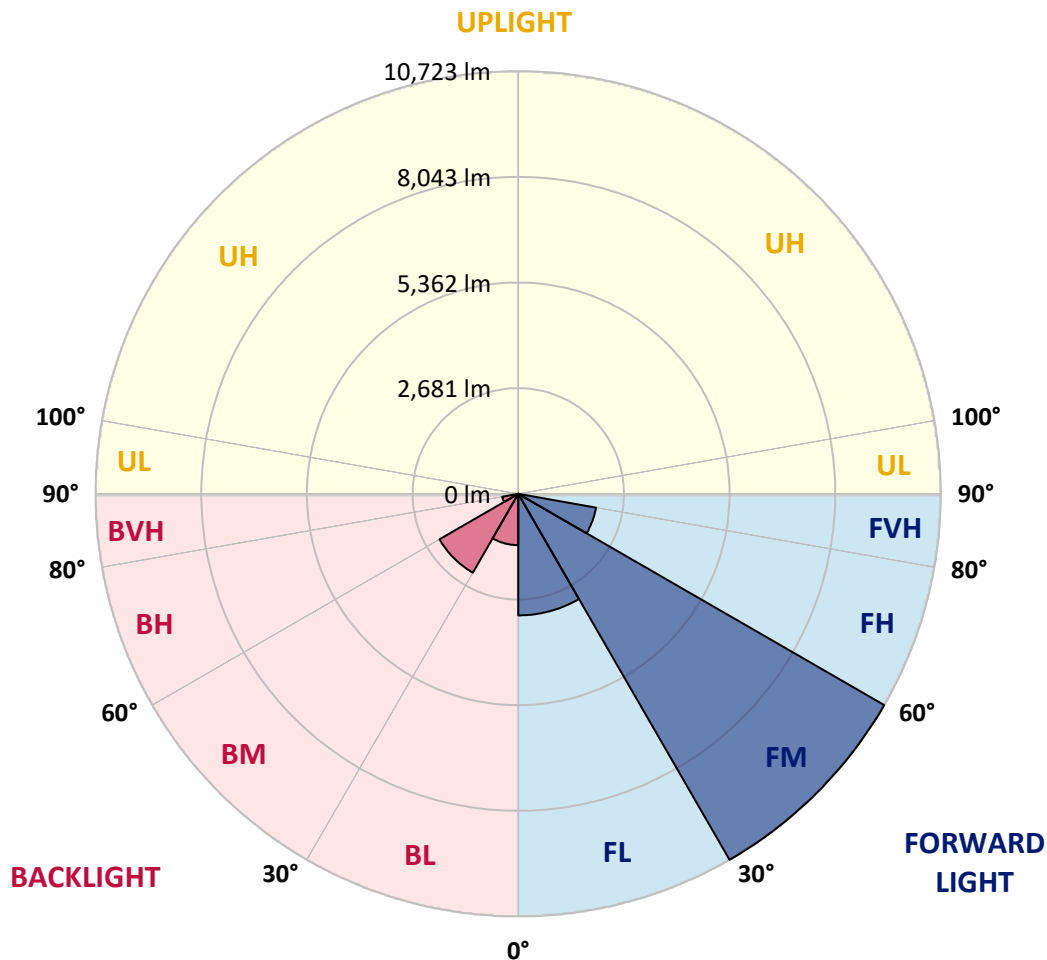
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3084.2	15.5			
FM (30°-60°)	10723.3	54.0			
FH (60°-80°)	2003.8	10.1			G2/5000
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1303.4	6.6	B3/2500		
BM (30°-60°)	2308.7	11.6	B2/2500		
BH (60°-80°)	412.3	2.1	B1/500		G1/500
BVH (80°-90°)	5.5	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°	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4
2.5°	10654.2	10685.4	10857.2	11072.1	11185.3	11443.1	11263.5	11310.3	11212.6	10869.0	10599.5
5°	10330.0	10326.1	10544.8	11076.0	11579.8	12091.4	12107.1	11833.6	11353.3	10826.0	10072.3
7.5°	9353.6	9505.9	9732.5	10580.0	11513.4	11896.1	12079.7	11759.4	11021.3	10267.6	9451.3
10°	8615.5	8693.6	9076.4	10099.6	10783.1	11294.7	11407.9	11224.4	10658.1	9716.9	8803.0
12.5°	8189.8	8228.9	8678.0	9537.3	10259.7	10638.5	10693.3	10779.2	10373.0	9490.4	8392.9
15°	8193.7	8224.9	8830.3	9548.9	9834.0	9732.5	9912.2	9908.2	10084.0	9447.4	8736.6
17.5°	8783.5	8818.6	9365.4	9720.8	9595.8	9357.6	9345.8	9525.5	9896.5	9982.5	9256.0
20°	9798.9	9880.9	10283.1	10263.6	9560.7	9080.3	8947.5	9084.2	9947.3	10435.5	10302.7
22.5°	11165.8	11279.0	11560.3	11021.3	9720.8	8892.8	8849.9	9115.5	10283.1	11447.0	11490.0
25°	12751.5	12942.8	13079.5	12388.2	10291.0	9216.9	9013.9	9470.9	10736.2	12544.4	13001.4
27.5°	13802.0	14001.2	13970.0	12981.8	10673.7	9302.9	9131.0	9556.7	11130.7	12806.1	13790.3
30°	14622.1	14743.3	14962.0	13302.1	11056.4	9545.0	9252.1	9920.0	11259.5	13259.2	14743.3
32.5°	15579.0	15661.0	15676.7	13868.4	11646.2	9849.7	9627.1	10373.0	11829.7	13692.6	15586.8
35°	16543.7	16664.7	16410.9	14567.5	12009.4	10415.9	10251.9	11158.0	12286.7	14141.8	16516.4
37.5°	17590.3	17652.8	17067.0	14856.5	12528.8	11337.7	11247.8	12005.5	13079.5	14954.1	17547.3
40°	18469.1	18527.7	17766.1	15211.9	13075.6	12626.4	12856.9	13622.3	14157.4	15481.4	18062.9
42.5°	18957.3	19093.9	18000.4	15016.6	14173.0	14087.1	15110.3	15379.8	15407.2	15629.8	18523.7
45°	19090.1	19027.5	17613.7	15176.7	15133.8	16489.0	17418.5	17773.9	16649.1	15903.2	18640.9
47.5°	18476.9	18558.9	17043.6	15036.2	16395.2	18309.0	19511.8	20171.9	17574.7	15664.9	18351.9
50°	17980.9	17875.4	16860.0	14934.6	16735.1	19168.2	21023.2	21171.7	18426.1	15957.9	18035.5
52.5°	18078.5	18144.9	17152.9	15204.1	16742.8	19219.0	21257.6	21156.0	18453.4	15891.5	17922.3
55°	18285.6	17992.6	17028.0	14610.5	15621.9	17801.3	18867.4	18711.2	17031.9	15184.6	17645.0
57.5°	15778.2	16231.2	15657.1	13044.3	12821.7	13411.5	13392.0	13872.3	12704.6	13067.8	16063.3
60°	12806.1	12884.2	13099.0	11158.0	8873.3	8670.2	8389.0	8084.4	8549.1	11173.6	14610.5
62.5°	11263.5	11169.7	11935.2	10150.3	6264.4	5245.1	5198.2	5385.7	6596.4	10658.1	13704.4
65°	8186.0	8303.1	8857.7	7877.4	4702.2	4003.2	3932.9	4487.4	5338.8	8541.3	10458.9
67.5°	4999.1	5225.6	5276.3	4858.4	3190.8	2534.6	2433.1	2937.0	3854.7	5526.3	6131.6
70°	2308.1	2581.6	2839.3	2651.9	1847.3	1042.8	984.2	1234.2	1945.0	3179.1	3253.3
72.5°	699.1	703.0	984.2	1027.1	597.5	234.4	207.0	273.4	660.0	1050.6	1105.3
75°	50.7	54.7	132.8	152.3	113.2	58.6	62.5	74.2	140.6	234.4	175.8
77.5°	3.9	3.9	3.9	19.5	35.2	39.1	50.7	58.6	74.2	85.9	78.1
80°	3.9	0.0	3.9	15.7	27.3	39.1	46.9	54.7	58.6	66.4	58.6
82.5°	0.0	0.0	0.0	11.7	27.3	39.1	43.0	58.6	66.4	78.1	66.4
85°	0.0	0.0	0.0	11.7	27.3	43.0	39.1	19.5	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°	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4
2.5°	10646.4	10494.1	10146.5	9970.7	9556.7	9498.2	9092.0	9025.6	8888.9	8814.7	8635.1
5°	9740.3	9556.7	8990.4	8514.0	7959.4	7572.8	7275.9	7006.4	6850.2	6705.8	6772.1
7.5°	9002.2	8467.1	7838.3	7041.6	6401.1	5987.1	5534.1	5163.0	4944.3	4796.0	4831.1
10°	8228.9	7881.3	7006.4	6112.1	5338.8	5045.9	4690.5	4405.4	4096.9	3831.3	3706.3
12.5°	7986.8	7471.2	6373.8	5463.8	4877.9	4592.8	4186.7	3858.6	3464.1	3140.0	3026.8
15°	8029.7	7533.7	6201.9	5229.4	4538.2	4046.1	3561.8	3155.6	2722.1	2495.6	2378.4
17.5°	8728.8	7869.5	6315.2	4983.4	4065.6	3382.2	2784.6	2269.1	1945.0	1710.6	1659.8
20°	9588.0	8596.0	6557.3	4803.8	3679.0	2690.9	2034.8	1589.6	1320.1	1281.0	1269.3
22.5°	10845.6	9783.3	7076.8	4682.7	3206.4	2097.3	1394.3	1156.0	1081.8	1074.0	1077.9
25°	12603.0	11271.3	7643.0	4581.2	2851.0	1616.9	1140.4	980.3	956.8	945.2	964.7
27.5°	13364.6	12169.5	7943.8	4362.4	2526.8	1456.8	1124.8	972.5	906.1	886.5	898.3
30°	14305.8	12767.0	8416.3	3987.5	2050.4	1199.0	1050.6	1058.4	1027.1	929.5	898.3
32.5°	15555.5	13513.0	8654.6	3721.9	1831.7	992.0	769.4	706.9	788.9	804.5	831.9
35°	16356.2	14270.6	8775.6	3565.7	1718.5	847.5	652.2	593.7	574.1	578.0	593.7
37.5°	17844.2	15293.9	8927.9	3401.7	1632.5	738.1	589.8	535.0	507.7	507.7	523.4
40°	18734.7	16106.2	9134.9	3311.9	1546.6	671.7	535.0	488.2	464.8	464.8	472.5
42.5°	18957.3	16508.5	9064.6	3280.6	1448.9	656.2	488.2	453.0	425.7	421.8	417.9
45°	19355.6	17121.7	9076.4	3245.5	1347.4	597.5	460.9	421.8	382.7	378.8	374.9
47.5°	19793.1	17563.0	9099.8	3108.7	1249.7	499.9	480.4	390.6	343.7	335.9	335.9
50°	19418.1	17914.5	9302.9	2972.1	1124.8	406.1	472.5	367.1	304.7	292.9	296.8
52.5°	19465.0	18328.5	9732.5	2780.7	968.6	324.2	382.7	347.6	277.3	257.8	261.7
55°	18715.1	17891.1	9791.1	2577.6	757.6	249.9	292.9	304.7	234.4	226.5	226.5
57.5°	16110.1	15149.4	8638.9	2089.4	499.9	207.0	210.9	265.6	203.1	195.3	199.2
60°	13786.4	12161.7	6951.8	1378.6	312.4	164.0	152.3	269.5	179.6	175.8	187.5
62.5°	12567.9	9994.1	5272.4	855.3	214.8	125.0	105.5	218.7	156.2	156.2	171.9
65°	9080.3	6713.5	3065.8	449.1	152.3	97.6	78.1	125.0	128.9	132.8	140.6
67.5°	5623.9	3390.0	1292.7	218.7	101.6	66.4	50.7	78.1	85.9	85.9	93.7
70°	2776.8	1351.3	429.6	125.0	78.1	54.7	35.2	43.0	43.0	39.1	43.0
72.5°	859.2	406.1	109.4	78.1	54.7	35.2	19.5	15.7	7.8	0.0	3.9
75°	97.6	78.1	70.3	54.7	35.2	15.7	3.9	0.0	0.0	0.0	0.0
77.5°	58.6	66.4	66.4	54.7	35.2	11.7	0.0	0.0	0.0	0.0	0.0
80°	46.9	50.7	54.7	50.7	31.2	15.7	0.0	0.0	0.0	0.0	0.0
82.5°	58.6	66.4	74.2	66.4	43.0	19.5	7.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	11.7	3.9	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°	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4
2.5°	8560.9	8475.0	8596.0	8416.3	8412.4	8416.3	8365.6	8318.7	8392.9	8592.1	8611.6
5°	6533.9	6717.4	6776.0	6967.4	6862.0	6705.8	6737.0	6631.5	6889.3	7002.5	6912.7
7.5°	4756.9	4745.1	5139.6	5163.0	5213.8	5217.8	5209.9	5002.9	4792.0	4838.9	4979.5
10°	3690.7	3491.5	3682.9	3663.3	3788.3	3753.2	3804.0	3581.4	3655.5	3655.5	3745.4
12.5°	3007.3	2796.3	2761.2	2710.4	2761.2	2780.7	2800.2	2757.3	2882.2	2940.9	3003.4
15°	2296.5	2179.2	2148.0	2050.4	2066.0	2120.7	2167.6	2187.1	2148.0	2237.8	2245.6
17.5°	1667.6	1663.7	1683.3	1679.4	1663.7	1652.1	1648.1	1597.3	1581.7	1589.6	1620.8
20°	1265.4	1296.6	1363.0	1429.4	1464.5	1421.6	1363.0	1277.1	1241.9	1249.7	1253.7
22.5°	1081.8	1128.7	1218.5	1292.7	1327.9	1249.7	1144.3	1070.1	1054.5	1050.6	1046.6
25°	980.3	1035.0	1101.4	1124.8	1120.9	1074.0	995.9	964.7	956.8	949.0	913.9
27.5°	925.6	945.2	956.8	984.2	995.9	964.7	945.2	898.3	890.4	890.4	867.0
30°	894.3	882.7	898.3	878.8	894.3	870.9	874.8	874.8	855.3	863.1	863.1
32.5°	831.9	835.8	835.8	796.7	808.4	781.1	808.4	831.9	835.8	839.7	870.9
35°	609.3	679.6	714.7	714.7	726.4	706.9	703.0	675.7	640.5	605.3	589.8
37.5°	535.0	562.4	609.3	636.6	656.2	640.5	605.3	562.4	542.9	527.3	511.6
40°	476.5	499.9	531.1	562.4	601.4	581.9	527.3	507.7	484.3	484.3	468.6
42.5°	429.6	441.3	460.9	507.7	550.7	511.6	472.5	457.0	445.2	441.3	437.4
45°	386.6	390.6	410.1	449.1	499.9	460.9	421.8	402.2	406.1	410.1	406.1
47.5°	347.6	355.4	367.1	414.0	445.2	425.7	382.7	371.0	371.0	371.0	374.9
50°	300.8	320.2	343.7	382.7	406.1	394.5	359.3	343.7	335.9	335.9	339.7
52.5°	269.5	285.1	316.3	363.2	394.5	374.9	339.7	316.3	300.8	296.8	304.7
55°	234.4	261.7	312.4	347.6	390.6	371.0	332.0	304.7	277.3	273.4	273.4
57.5°	210.9	253.8	300.8	343.7	378.8	363.2	332.0	296.8	261.7	257.8	257.8
60°	199.2	246.0	292.9	332.0	378.8	355.4	328.1	289.0	249.9	249.9	246.0
62.5°	187.5	230.4	277.3	316.3	363.2	343.7	316.3	277.3	238.3	238.3	230.4
65°	156.2	199.2	230.4	265.6	316.3	296.8	269.5	242.1	210.9	203.1	207.0
67.5°	109.4	136.7	168.0	203.1	234.4	226.5	214.8	195.3	168.0	164.0	160.1
70°	54.7	74.2	101.6	136.7	164.0	156.2	148.4	132.8	117.1	113.2	113.2
72.5°	7.8	23.4	43.0	62.5	85.9	89.8	85.9	82.0	78.1	74.2	78.1
75°	0.0	0.0	0.0	15.7	35.2	43.0	50.7	58.6	58.6	50.7	62.5
77.5°	0.0	0.0	0.0	0.0	3.9	19.5	39.1	50.7	62.5	54.7	74.2
80°	0.0	0.0	0.0	0.0	3.9	23.4	39.1	54.7	62.5	54.7	78.1
82.5°	0.0	0.0	0.0	0.0	3.9	27.3	39.1	50.7	58.6	54.7	70.3
85°	0.0	0.0	0.0	0.0	11.7	23.4	15.7	7.8	3.9	3.9	11.7
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: P647499

CATALOG NUMBER: GALN-SA6D-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4	10068.4
2.5°	8721.0	8998.2	9295.1	9408.4	9759.9	10025.4	10205.1	10591.7	10650.3	10654.2
5°	7006.4	7147.1	7654.8	7893.0	8416.3	8822.5	9256.0	9880.9	10298.8	10330.0
7.5°	4979.5	5370.0	5584.8	6205.8	6850.2	7486.8	8131.2	8857.7	9342.0	9353.6
10°	4007.0	4260.9	4643.7	5108.4	5651.2	6299.5	7158.7	8002.3	8494.5	8615.5
12.5°	3226.0	3671.2	4108.6	4588.9	5002.9	5491.1	6416.8	7541.5	7947.7	8189.8
15°	2483.9	2890.1	3405.6	3968.0	4436.6	5088.9	6143.3	7428.2	8111.7	8193.7
17.5°	1831.7	2194.9	2671.4	3202.5	3905.5	4831.1	6190.2	8002.3	8646.7	8783.5
20°	1316.1	1527.1	1902.0	2519.1	3413.4	4530.4	6237.1	8584.3	9564.6	9798.9
22.5°	1042.8	1128.7	1374.7	1921.5	2862.7	4214.0	6569.1	9697.4	10826.0	11165.8
25°	906.1	952.9	1070.1	1515.3	2515.2	4182.8	7100.2	11033.0	12505.4	12751.5
27.5°	874.8	882.7	984.2	1390.4	2327.7	3975.8	7303.3	11982.0	13552.1	13802.0
30°	921.7	1046.6	1054.5	1175.5	1980.1	3565.7	7408.7	12899.8	14438.6	14622.1
32.5°	796.7	757.6	785.0	910.0	1741.9	3327.5	7607.9	13700.5	15450.2	15579.0
35°	554.6	581.9	644.4	788.9	1523.2	3077.5	7658.7	14583.1	16410.9	16543.7
37.5°	511.6	527.3	578.0	671.7	1339.6	2937.0	7588.4	15227.5	17406.8	17590.3
40°	476.5	496.0	523.4	609.3	1202.9	2780.7	7490.7	15809.5	18016.0	18469.1
42.5°	449.1	464.8	488.2	581.9	1085.7	2624.5	7354.0	16629.6	18562.8	18957.3
45°	417.9	441.3	468.6	566.3	1019.3	2519.1	7252.5	16578.9	18879.1	19090.1
47.5°	386.6	425.7	457.0	527.3	999.8	2468.3	7295.4	16387.5	18621.4	18476.9
50°	355.4	406.1	460.9	437.4	952.9	2366.7	7346.3	16649.1	18008.2	17980.9
52.5°	328.1	386.6	429.6	359.3	847.5	2269.1	7838.3	16992.8	18441.8	18078.5
55°	289.0	347.6	343.7	289.0	687.4	2194.9	8224.9	17000.6	18148.8	18285.6
57.5°	261.7	308.5	269.5	242.1	507.7	1835.6	7596.2	14255.1	15536.1	15778.2
60°	242.1	300.8	203.1	191.4	332.0	1324.0	6631.5	11040.8	12349.2	12806.1
62.5°	222.6	285.1	160.1	156.2	230.4	941.2	5452.1	9240.4	10642.5	11263.5
65°	195.3	203.1	128.9	121.1	164.0	507.7	3319.7	6362.0	7955.5	8186.0
67.5°	160.1	156.2	105.5	97.6	109.4	246.0	1464.5	3186.9	4612.4	4999.1
70°	128.9	128.9	89.8	78.1	78.1	113.2	382.7	1269.3	2085.5	2308.1
72.5°	93.7	97.6	70.3	62.5	58.6	54.7	62.5	253.8	546.8	699.1
75°	82.0	85.9	70.3	54.7	43.0	35.2	27.3	23.4	31.2	50.7
77.5°	89.8	89.8	74.2	50.7	39.1	27.3	15.7	7.8	7.8	3.9
80°	113.2	117.1	97.6	66.4	46.9	31.2	19.5	7.8	3.9	3.9
82.5°	121.1	132.8	109.4	82.0	58.6	35.2	19.5	3.9	0.0	0.0
85°	31.2	50.7	85.9	74.2	58.6	35.2	19.5	3.9	0.0	0.0
87.5°	0.0	3.9	11.7	11.7	15.7	15.7	11.7	3.9	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)