

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: P647560

Luminaire Tested: **GALN-SA7D-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30299 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

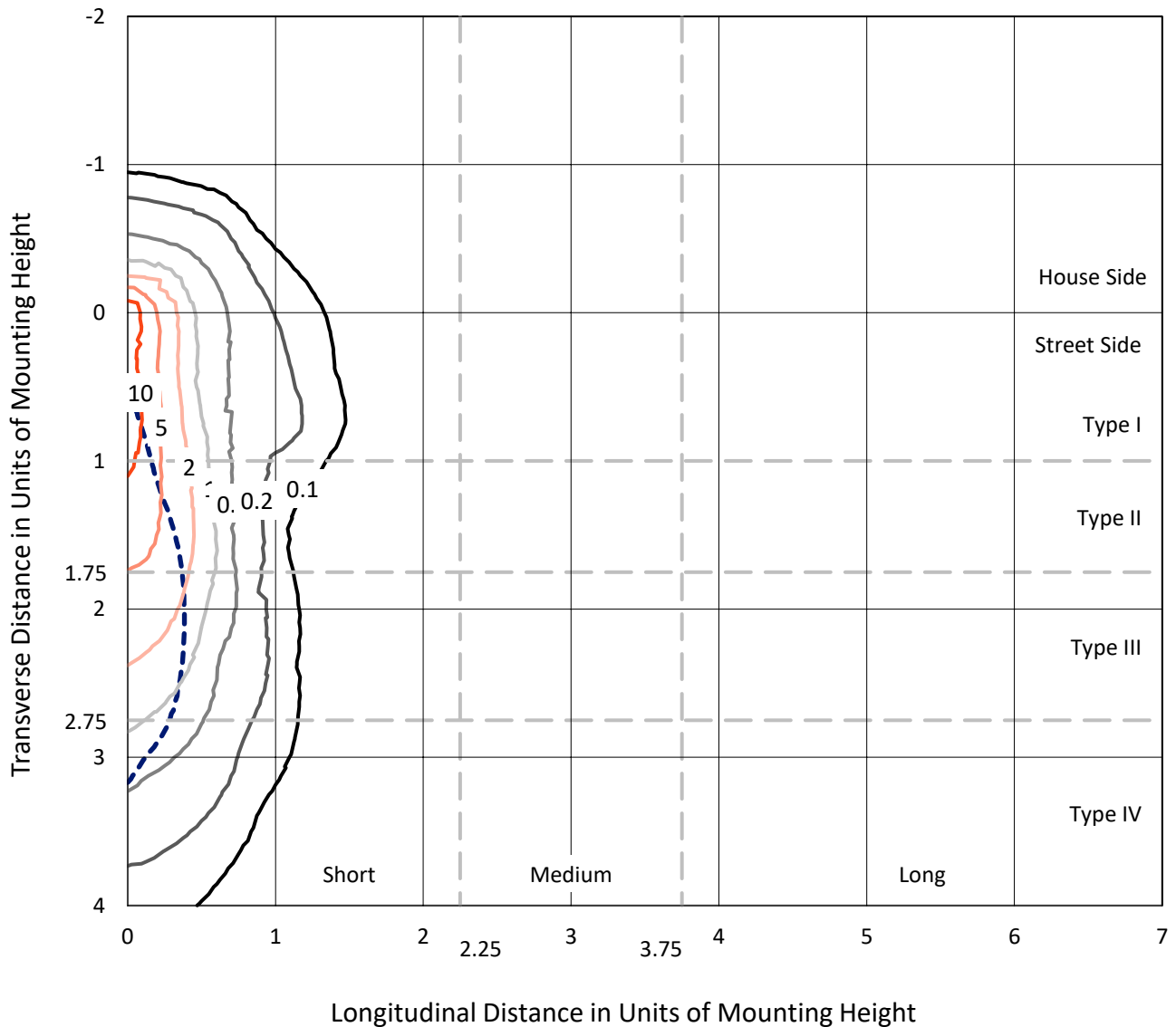
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

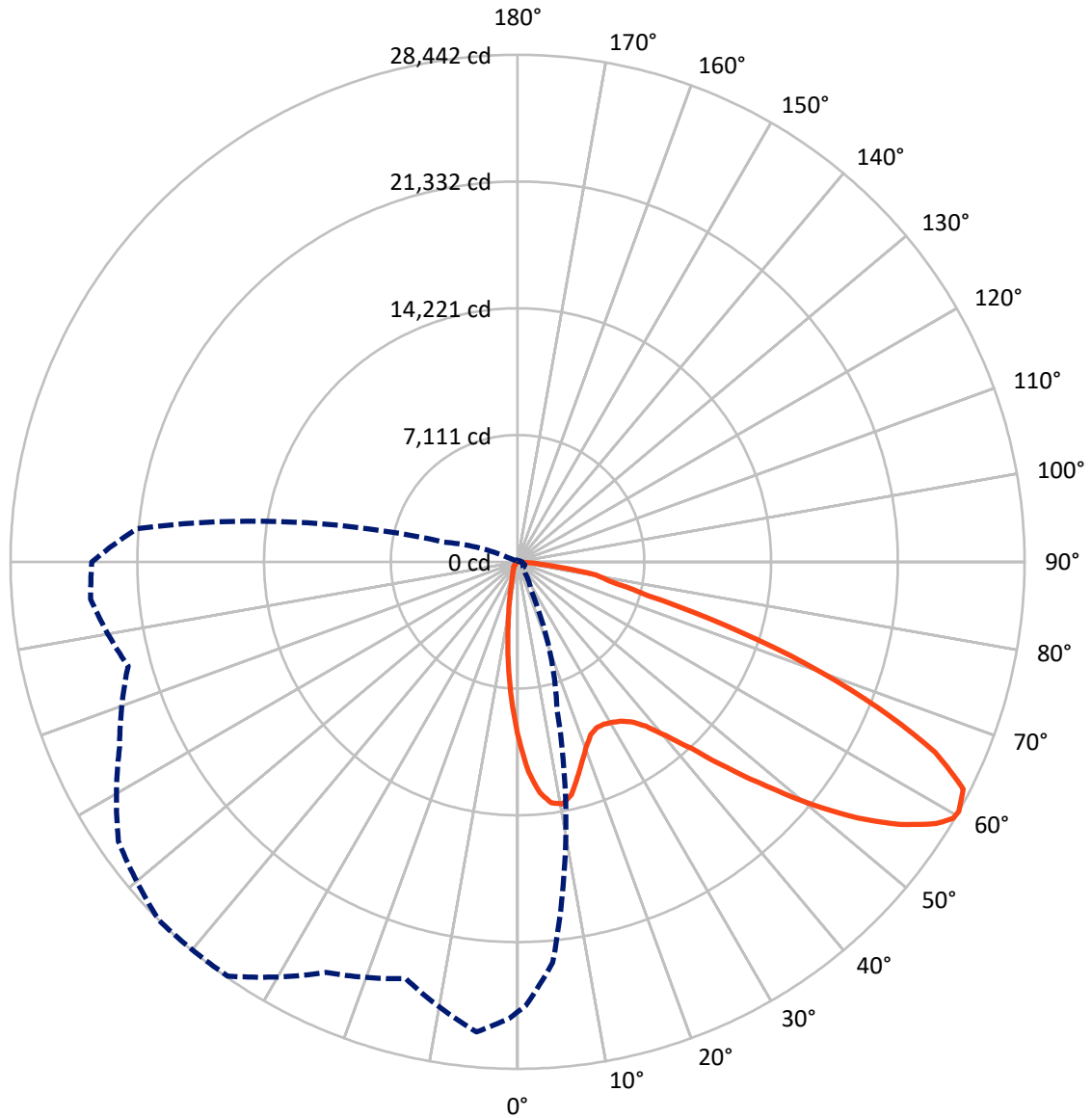
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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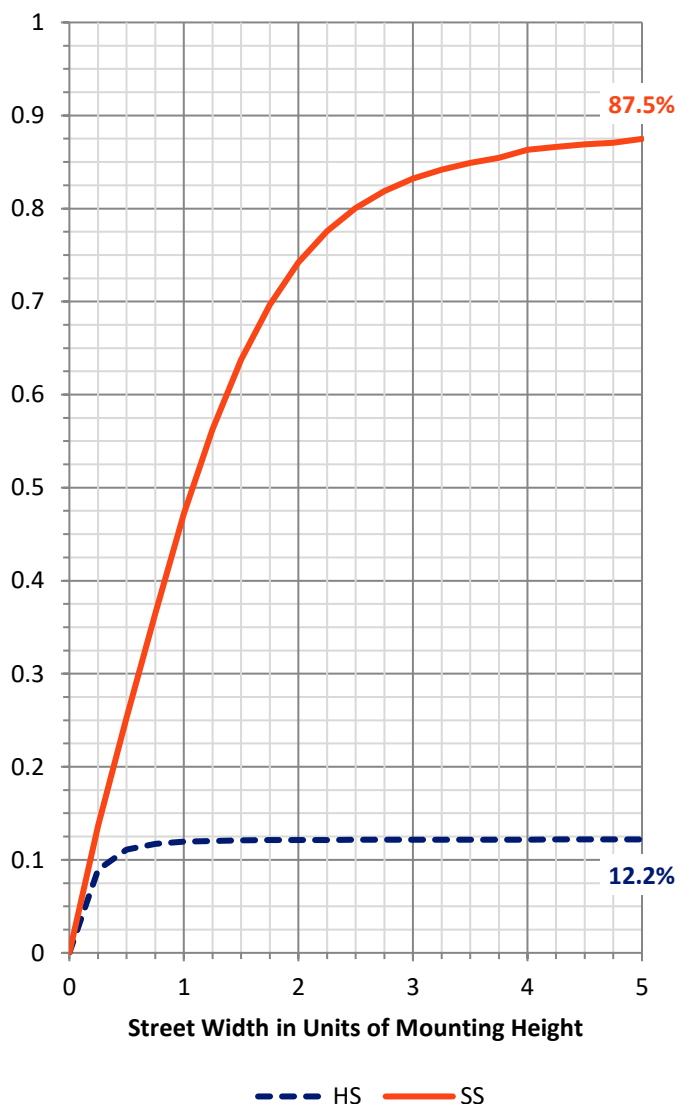
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3737.1	0.0	3737.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	26561.9	0.0	26561.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	30299.0	0.0	30299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.8	2.5
10°-20°	1479.2	4.9
20°-30°	2169.0	7.2
30°-40°	3225.6	10.6
40°-50°	4694.3	15.5
50°-60°	6769.5	22.3
60°-70°	7445.7	24.6
70°-80°	3335.1	11.0
80°-90°	435.8	1.4
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°	30299.0	100.0
0°-180°	30299.0	100.0

Coefficient of Utilization

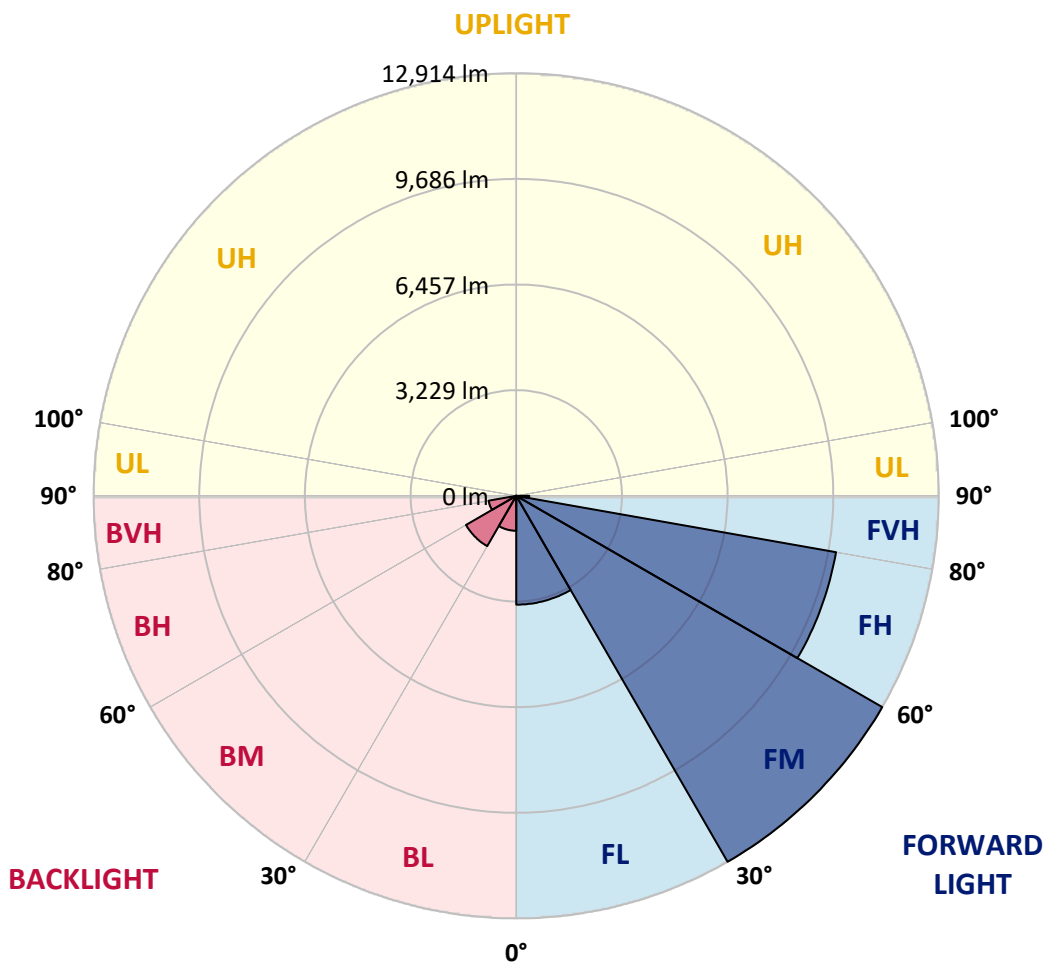


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3325.2	11.0			
FM (30°-60°)	12914.4	42.6			
FH (60°-80°)	9923.8	32.8			G4/12000
FVH (80°-90°)	398.5	1.3			G3/500
BL (0°-30°)	1067.8	3.5	B3/2500		
BM (30°-60°)	1775.0	5.9	B2/2500		
BH (60°-80°)	857.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	37.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3
2.5°	11009.2	10960.8	10850.3	10514.0	10221.5	9839.2	9452.3	9148.3	8961.7	8618.5	8461.9
5°	10666.0	10689.0	10369.0	9678.0	8908.7	8383.6	7810.1	7354.1	6852.0	6534.1	6200.2
7.5°	9770.1	9724.1	9376.3	8413.5	7478.4	6718.4	5992.8	5403.2	5032.4	4735.3	4486.6
10°	9003.2	8968.6	8524.1	7285.0	6280.8	5711.9	5221.3	4705.4	4307.0	3871.6	3523.9
12.5°	8521.8	8443.5	7932.2	6637.8	5820.1	5290.4	4756.1	4219.4	3669.0	3229.1	2807.6
15°	8360.6	8247.7	7678.8	6414.3	5525.3	4852.8	4182.6	3565.3	2931.9	2446.0	2128.1
17.5°	8653.1	8466.5	7860.8	6375.2	5173.0	4281.6	3457.1	2653.3	1994.5	1623.7	1428.0
20°	9323.3	9109.1	8321.4	6336.0	4781.4	3641.3	2627.9	1874.8	1379.6	1176.9	1068.6
22.5°	10318.3	10023.4	9003.2	6398.2	4419.8	3017.1	1897.8	1324.4	1096.3	969.7	893.6
25°	11513.6	11267.1	9866.8	6619.3	4134.2	2526.6	1467.1	1082.5	923.5	845.2	787.7
27.5°	12824.1	12430.3	10983.8	6884.2	3874.0	2146.6	1287.5	967.3	822.2	750.8	720.9
30°	13756.9	13450.6	11919.0	7068.5	3549.2	1861.0	1176.9	953.5	824.6	739.3	684.0
32.5°	14678.2	14286.6	12702.1	7153.7	3312.0	1662.9	1018.0	831.5	723.2	679.4	624.1
35°	15663.9	15254.0	13482.9	7107.6	3134.7	1531.6	923.5	741.7	619.6	545.8	490.5
37.5°	16661.2	16228.2	14259.0	6941.8	3024.1	1478.6	849.9	704.8	585.0	509.0	449.1
40°	17845.0	17267.0	14986.8	6805.9	2908.9	1451.0	801.5	681.8	559.7	479.0	419.2
42.5°	18812.4	18261.9	15675.5	6734.5	2830.6	1386.5	801.5	663.3	543.6	453.7	391.6
45°	19729.1	19157.9	16419.4	6792.1	2798.4	1305.9	810.7	661.0	532.0	435.3	373.1
47.5°	20496.0	20000.9	17184.0	7008.6	2756.9	1218.3	762.3	693.3	525.2	419.2	354.7
50°	21401.2	20922.2	18195.1	7446.2	2683.2	1130.9	702.5	746.2	522.8	405.4	338.6
52.5°	22677.2	22158.9	19590.9	7943.7	2565.7	997.3	647.2	739.3	513.6	382.3	322.4
55°	24236.4	23817.2	21207.7	8540.2	2404.5	847.6	559.7	656.4	486.0	343.2	294.8
57.5°	25236.0	24879.0	22419.2	8798.2	2158.1	693.3	492.9	550.4	444.5	306.3	262.5
59°	25353.5	25031.0	22672.5	8712.9	1996.9	633.4	460.6	472.1	433.0	285.6	244.1
60°	25254.4	24920.5	22571.2	8547.1	1847.2	591.9	433.0	419.2	435.3	274.0	230.3
62.5°	24618.7	24047.6	21587.7	7706.4	1614.5	543.6	384.6	343.2	384.6	246.4	205.0
65°	23391.1	22534.3	19641.6	6522.6	1522.4	515.9	327.1	287.9	292.5	216.5	177.3
67.5°	21246.9	20166.7	17050.5	5299.7	1483.2	518.2	276.4	257.9	225.7	184.2	156.6
70°	17856.5	16778.7	13680.9	4359.9	1464.8	518.2	234.9	221.1	188.9	154.3	135.9
72.5°	12653.7	11492.9	9228.8	3424.8	1319.7	515.9	200.4	200.4	154.3	129.0	110.6
75°	7149.1	7158.3	5801.7	2422.9	1096.3	426.1	161.2	158.9	112.8	99.0	82.9
77.5°	4166.4	4092.7	3910.8	1041.1	509.0	193.5	112.8	96.7	78.3	71.4	59.9
80°	2142.0	1761.9	1715.9	377.7	182.0	122.1	78.3	55.3	50.7	46.0	41.4
82.5°	633.4	635.7	566.6	152.0	101.3	80.6	39.2	29.9	27.6	25.4	25.4
85°	43.8	27.6	32.3	46.0	62.2	32.3	2.3	6.9	6.9	9.2	11.5
87.5°	4.6	2.3	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°	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3
2.5°	8289.2	8390.5	8201.6	8206.2	8049.6	8100.3	7916.1	7976.0	7867.7	7950.6	8194.7
5°	6237.0	6260.1	6108.0	6059.6	6082.7	6177.2	6214.0	6045.9	6117.3	5976.8	5967.6
7.5°	4394.5	4422.1	4334.6	4323.1	4488.9	4449.8	4521.1	4348.4	4184.9	4256.3	4125.0
10°	3413.3	3298.2	3118.5	3067.9	3035.6	3056.4	3056.4	2899.7	2876.7	2814.5	2908.9
12.5°	2694.7	2554.2	2383.8	2153.5	2095.9	2091.3	2006.0	1867.8	1824.2	1771.1	1849.4
15°	1957.7	1900.1	1757.4	1628.3	1497.1	1471.7	1333.5	1220.7	1071.0	1050.2	1043.3
17.5°	1377.3	1292.1	1289.8	1216.1	1140.0	1089.4	960.4	831.5	773.8	766.9	766.9
20°	1031.8	1001.8	953.5	944.3	921.3	863.7	748.5	679.4	651.8	654.1	663.3
22.5°	868.3	847.6	803.8	783.1	773.8	723.2	638.0	591.9	578.1	578.1	580.4
25°	776.2	757.7	709.4	677.1	665.6	628.7	562.0	527.4	515.9	515.9	515.9
27.5°	707.0	684.0	633.4	605.7	585.0	543.6	502.1	467.5	456.0	456.0	458.4
30°	658.7	633.4	587.3	550.4	518.2	481.4	446.8	416.9	403.1	400.7	403.1
32.5°	594.2	571.2	525.2	502.1	465.3	421.5	393.8	366.2	352.4	354.7	352.4
35°	462.9	456.0	423.8	430.7	410.0	373.1	347.8	317.8	301.7	299.4	304.0
37.5°	421.5	393.8	357.0	359.3	352.4	338.6	297.1	264.9	253.4	253.4	255.6
40°	389.2	361.6	320.2	299.4	301.7	301.7	257.9	223.4	211.9	209.6	214.2
42.5°	361.6	333.9	287.9	253.4	244.1	255.6	218.8	184.2	172.7	168.1	172.7
45°	343.2	313.2	260.3	221.1	193.5	207.3	179.6	152.0	138.2	138.2	135.9
47.5°	324.7	297.1	239.5	191.1	161.2	154.3	147.4	122.1	108.2	105.9	108.2
50°	308.7	281.0	216.5	165.8	135.9	119.8	119.8	96.7	87.5	82.9	85.2
52.5°	292.5	262.5	195.8	147.4	117.4	96.7	85.2	78.3	71.4	69.1	71.4
55°	269.5	239.5	175.1	126.7	101.3	80.6	66.8	64.5	59.9	55.3	59.9
57.5°	241.9	214.2	154.3	108.2	80.6	62.2	55.3	53.0	48.4	46.0	46.0
59°	225.7	200.4	142.8	94.4	71.4	55.3	50.7	48.4	43.8	39.2	41.4
60°	216.5	195.8	135.9	87.5	64.5	50.7	46.0	43.8	39.2	36.9	39.2
62.5°	191.1	175.1	119.8	71.4	50.7	36.9	32.3	34.5	32.3	29.9	32.3
65°	168.1	154.3	101.3	55.3	39.2	25.4	23.0	29.9	27.6	25.4	27.6
67.5°	149.7	133.6	85.2	41.4	27.6	13.8	16.1	25.4	25.4	23.0	25.4
70°	129.0	115.2	69.1	29.9	13.8	6.9	11.5	18.4	23.0	20.7	23.0
72.5°	105.9	89.8	53.0	20.7	6.9	0.0	6.9	16.1	23.0	20.7	23.0
75°	82.9	66.8	39.2	11.5	0.0	0.0	2.3	13.8	23.0	20.7	23.0
77.5°	59.9	48.4	23.0	2.3	0.0	0.0	2.3	13.8	23.0	20.7	23.0
80°	39.2	34.5	9.2	0.0	0.0	0.0	2.3	13.8	23.0	23.0	25.4
82.5°	25.4	18.4	0.0	0.0	0.0	0.0	4.6	18.4	25.4	27.6	27.6
85°	11.5	0.0	0.0	0.0	0.0	0.0	9.2	23.0	29.9	29.9	29.9
87.5°	0.0	0.0	0.0	0.0	0.0	4.6	16.1	27.6	34.5	34.5	34.5
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°	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3
2.5°	8236.2	8381.3	8586.3	8901.8	9157.4	9560.5	9869.2	10290.7	10716.7	10845.7	11046.1
5°	6062.0	6248.6	6713.8	7137.6	7404.8	8256.9	8795.8	9645.7	10408.1	10774.3	11172.7
7.5°	4210.2	4431.3	4786.0	5378.0	5939.9	6633.2	7503.8	8475.7	9592.8	10115.6	10677.5
10°	2955.0	3231.4	3731.2	4217.2	4924.2	5582.9	6442.0	7515.3	8747.5	9364.8	10069.5
12.5°	1865.6	2112.0	2773.0	3318.9	4201.0	4965.6	5757.9	6729.9	8157.8	8791.3	9530.6
15°	1066.4	1273.6	1582.3	2282.4	3261.3	4272.4	5260.5	6389.0	7856.2	8637.0	9436.2
17.5°	794.6	849.9	988.1	1384.2	2275.6	3457.1	4802.1	6285.4	8061.1	8977.8	9889.8
20°	667.9	704.8	769.3	925.9	1451.0	2662.5	4355.4	6303.8	8724.4	9876.1	10742.1
22.5°	598.8	621.9	674.9	776.2	990.3	1939.3	3832.5	6412.1	9528.2	10979.3	11978.9
25°	525.2	555.1	601.1	688.6	824.6	1345.0	3316.6	6653.9	10654.5	12379.6	13319.3
27.5°	467.5	495.2	541.2	621.9	723.2	1027.2	2715.4	6861.2	11843.0	13789.2	14558.4
30°	410.0	437.6	483.7	548.2	640.3	831.5	2068.3	6983.3	12996.9	14846.3	15438.3
32.5°	361.6	384.6	428.4	486.0	562.0	704.8	1630.7	6856.6	13879.0	15806.7	16202.9
35°	313.2	340.8	377.7	430.7	497.5	601.1	1356.5	6419.0	14636.7	16794.8	16937.6
37.5°	262.5	294.8	333.9	382.3	435.3	552.8	1089.4	5935.3	15447.4	18027.0	17792.1
40°	221.1	251.0	287.9	340.8	389.2	506.7	838.4	5419.4	16322.7	19183.2	18724.9
42.5°	179.6	211.9	255.6	304.0	384.6	442.2	649.5	4885.1	17108.1	20189.7	19567.9
45°	142.8	170.5	216.5	278.7	382.3	380.0	502.1	4357.6	17699.9	20908.3	20196.6
47.5°	112.8	135.9	182.0	271.8	352.4	322.4	403.1	4030.6	18321.8	21555.5	20678.0
50°	89.8	112.8	156.6	283.3	308.7	276.4	338.6	4083.6	18922.9	21884.9	20876.0
52.5°	76.0	99.0	135.9	223.4	237.2	241.9	297.1	4327.7	19699.1	22237.2	21269.9
55°	66.8	87.5	115.2	156.6	184.2	216.5	271.8	4505.0	20737.8	22992.7	22138.2
57.5°	53.0	76.0	103.7	133.6	152.0	188.9	251.0	4518.8	21677.6	23962.3	23292.1
59°	48.4	69.1	96.7	126.7	135.9	170.5	237.2	4401.4	21712.1	24107.4	23821.8
60°	43.8	66.8	92.2	117.4	129.0	161.2	225.7	4265.5	21398.8	23877.1	24040.6
62.5°	36.9	57.6	80.6	94.4	110.6	133.6	195.8	3772.7	19881.1	22833.8	23635.2
65°	32.3	50.7	69.1	78.3	92.2	115.2	172.7	3019.5	18204.4	21419.6	22474.4
67.5°	29.9	46.0	59.9	66.8	80.6	105.9	154.3	2132.7	16032.5	19625.4	20730.9
70°	27.6	43.8	53.0	62.2	71.4	89.8	131.3	1243.7	12349.6	16479.3	17647.0
72.5°	27.6	41.4	46.0	53.0	62.2	80.6	122.1	672.5	8443.5	12570.8	14079.4
75°	27.6	39.2	41.4	46.0	55.3	73.7	108.2	352.4	5458.5	8733.7	10778.9
77.5°	27.6	36.9	41.4	43.8	53.0	64.5	94.4	221.1	3636.7	6117.3	7285.0
80°	29.9	36.9	39.2	43.8	50.7	59.9	78.3	147.4	2137.4	3680.5	4433.7
82.5°	32.3	36.9	41.4	46.0	53.0	57.6	69.1	92.2	985.8	2434.5	2754.6
85°	34.5	39.2	43.8	48.4	55.3	57.6	64.5	66.8	161.2	1098.6	1485.6
87.5°	36.9	41.4	46.0	50.7	59.9	59.9	59.9	59.9	55.3	117.4	299.4
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: P647560

CATALOG NUMBER: GALN-SA7D-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3	10014.3
2.5°	11299.4	11559.7	11741.6	11787.7	11656.4	11596.5	11430.7	11172.7	11016.1	11009.2
5°	11907.5	12517.8	12941.6	13013.0	12759.6	12331.2	11822.2	11165.8	10781.2	10666.0
7.5°	11803.8	12872.5	13554.2	13653.2	13227.2	12409.5	11423.8	10366.6	9947.5	9770.1
10°	11377.7	12681.3	13655.6	13812.2	13243.3	12091.7	10838.8	9659.6	9139.0	9003.2
12.5°	11013.8	12331.2	13197.2	13413.7	12983.1	11833.8	10488.7	9205.8	8648.5	8521.8
15°	10854.9	11916.6	12446.4	12557.0	12485.6	11672.6	10451.9	9136.7	8498.8	8360.6
17.5°	11013.8	11564.3	11631.1	11743.9	11902.9	11656.4	10806.6	9512.1	8823.5	8653.1
20°	11430.7	11258.0	10981.6	11030.0	11393.8	11723.2	11437.6	10343.6	9505.2	9323.3
22.5°	12140.1	11181.9	10555.5	10514.0	10974.7	11946.6	12363.5	11469.9	10497.9	10318.3
25°	13010.7	11373.2	10398.9	10309.1	10811.1	12273.7	13370.0	12849.5	11787.7	11513.6
27.5°	13959.6	11769.3	10398.9	10311.3	10797.3	12563.9	14231.3	14070.1	13123.5	12824.1
30°	14480.1	12096.3	10548.6	10449.5	10967.8	12732.0	14692.0	15155.0	14127.7	13756.9
32.5°	14945.4	12550.1	10841.1	10654.5	11324.8	12980.7	15104.3	16076.2	14927.0	14678.2
35°	15373.7	13036.0	11244.1	11027.6	11794.6	13321.6	15560.3	17043.6	16039.4	15663.9
37.5°	15845.9	13600.3	11872.9	11688.6	12580.0	13984.9	16101.5	18314.9	17133.4	16661.2
40°	16359.5	14254.4	12907.1	12828.8	13828.3	14735.7	16785.6	19671.5	18381.7	17845.0
42.5°	16882.3	15007.5	14173.8	14302.7	15242.5	15788.3	17488.1	20714.8	19404.3	18812.4
45°	17356.8	15970.3	15820.6	16458.6	16891.6	16815.6	18008.6	21449.6	20295.7	19729.1
47.5°	17955.6	17372.9	17812.9	18796.3	18807.8	17932.6	18402.5	22050.7	21062.6	20496.0
50°	18625.8	19028.9	20385.5	21387.3	21117.9	19031.2	18863.1	22762.4	21854.9	21401.2
52.5°	19402.0	20883.0	22762.4	23874.8	23246.0	20228.9	19630.0	23531.7	23112.4	22677.2
55°	20304.8	22147.4	25132.3	26019.1	25385.7	21716.7	20795.5	24575.0	24533.5	24236.4
57.5°	21325.2	23483.3	26505.0	27705.0	27140.7	23462.5	22423.8	25558.5	25401.8	25236.0
59°	22131.3	24169.6	27110.7	28354.5	28013.6	24685.5	23517.8	26171.1	25602.2	25353.5
60°	22619.5	24634.8	27334.2	28442.0	28363.7	25413.4	24211.1	26470.5	25599.9	25254.4
62.5°	24068.2	25447.9	27248.9	28052.8	28359.1	26809.1	26244.8	26799.8	25125.5	24618.7
65°	24584.2	25178.4	25837.1	25738.1	26000.6	26737.6	27543.7	26438.2	24112.0	23391.1
67.5°	23580.0	22223.4	22456.0	21795.0	21666.1	23771.2	27016.3	24669.4	22129.0	21246.9
70°	19876.5	17025.2	16907.6	17211.7	16377.9	19245.4	24259.5	21263.0	18856.1	17856.5
72.5°	15645.5	12031.8	11041.5	12160.8	12135.5	14682.8	20152.9	15088.2	12738.9	12653.7
75°	12303.6	8376.7	7351.7	7533.7	7883.8	10629.2	16050.9	9581.3	7844.6	7149.1
77.5°	8259.2	5935.3	5536.8	5313.4	5691.2	6824.3	10154.7	5196.0	4399.1	4166.4
80°	4760.7	4311.6	4896.6	4445.2	4647.8	4300.1	5050.9	2383.8	1978.4	2142.0
82.5°	3097.8	2455.2	2616.4	1943.9	2657.9	2680.9	1621.4	704.8	596.5	633.4
85°	1937.0	1151.6	647.2	460.6	916.7	1686.0	506.7	43.8	50.7	43.8
87.5°	502.1	191.1	80.6	119.8	147.4	131.3	117.4	6.9	2.3	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)