

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: P651520

Luminaire Tested: **GALN-SA7D-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651520
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-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 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: 32543.3 lumens
Efficiency: N/A
Efficacy: 75.2 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

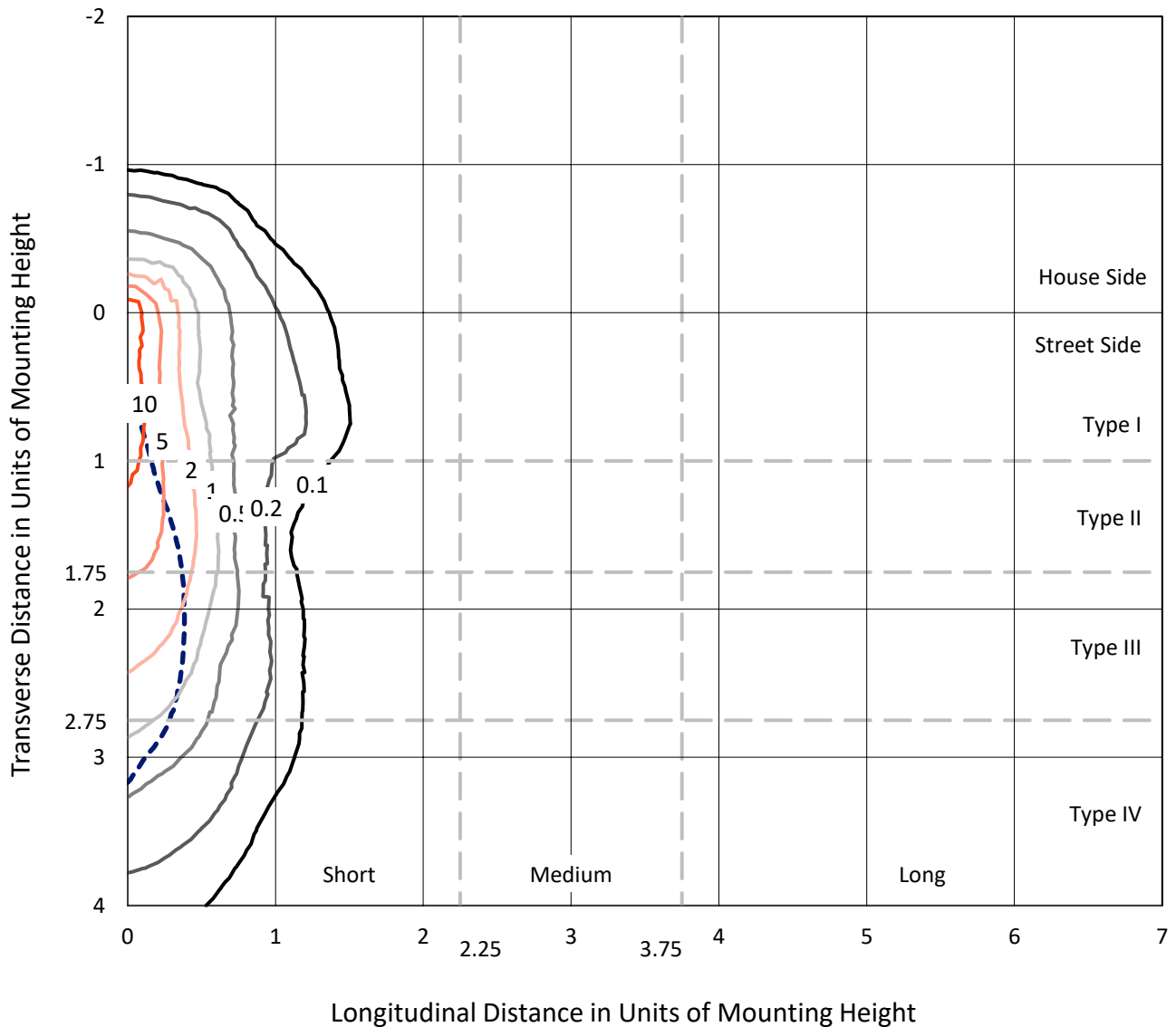
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

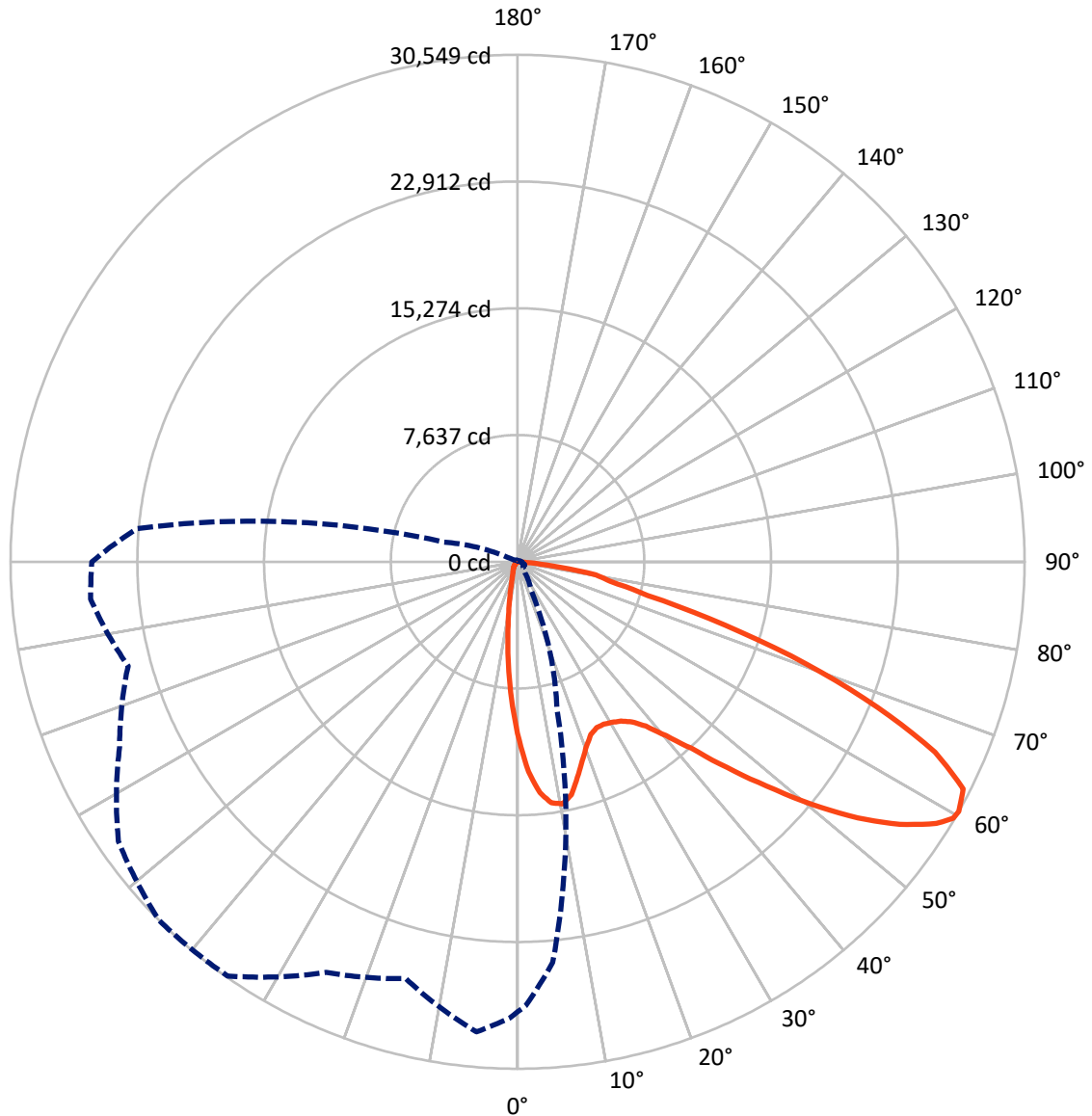
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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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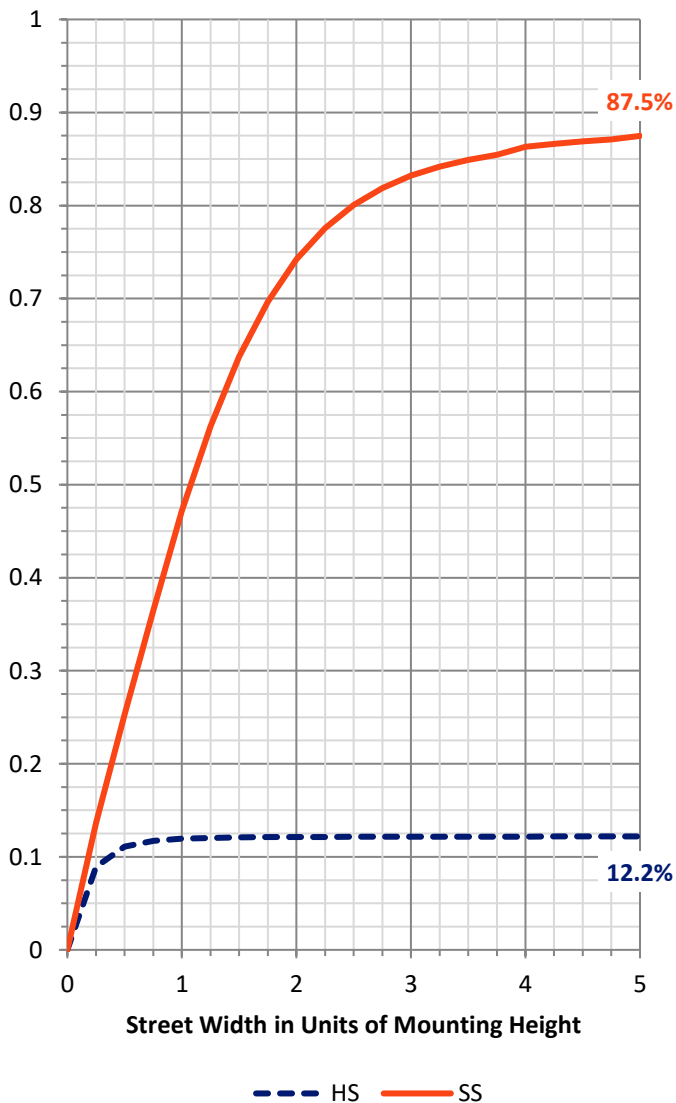
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4013.9	0.0	4013.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	28529.4	0.0	28529.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	32543.3	0.0	32543.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.0	2.5
10°-20°	1588.8	4.9
20°-30°	2329.6	7.2
30°-40°	3464.5	10.6
40°-50°	5042.0	15.5
50°-60°	7270.9	22.3
60°-70°	7997.3	24.6
70°-80°	3582.1	11.0
80°-90°	468.1	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°	32543.3	100.0
0°-180°	32543.3	100.0

Coefficient of Utilization



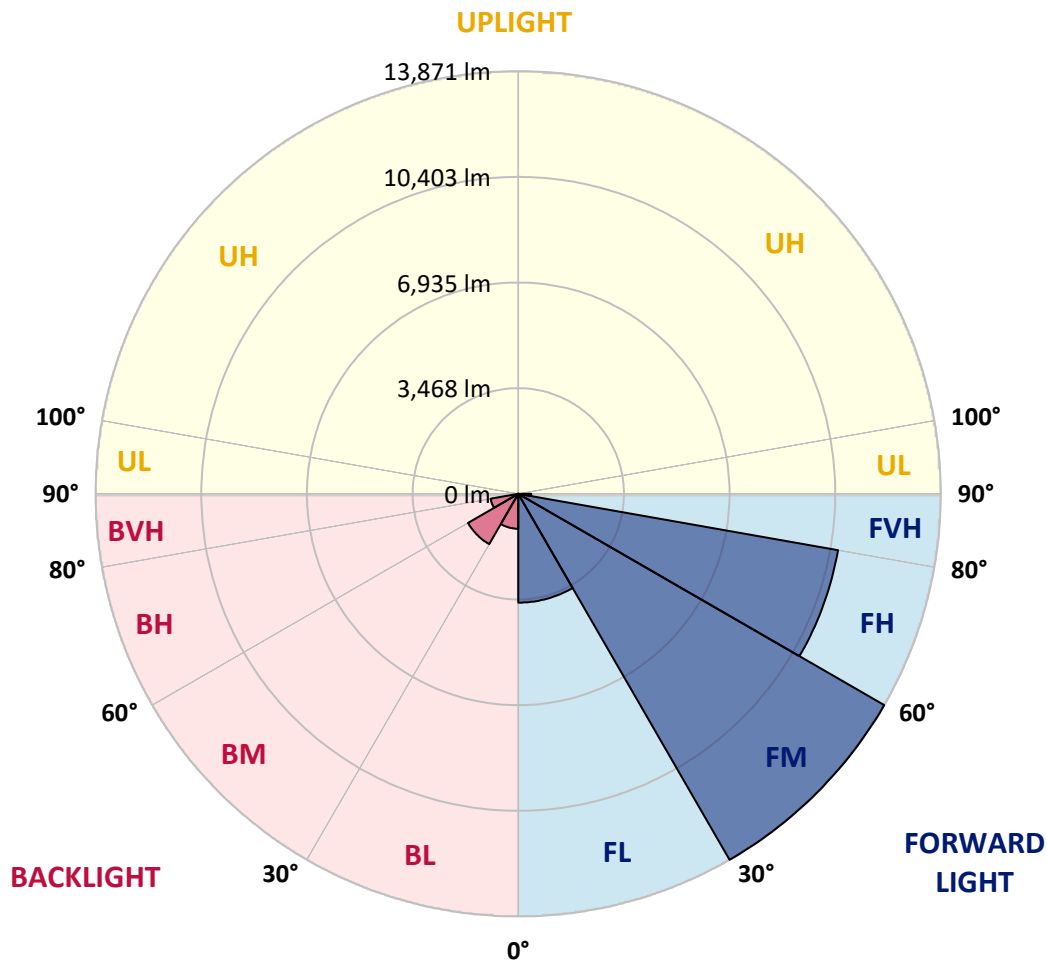
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3571.5	11.0			
FM (30°-60°)	13871.0	42.6			
FH (60°-80°)	10658.9	32.8			G4/12000
FVH (80°-90°)	428.0	1.3			G3/500
BL (0°-30°)	1146.9	3.5	B3/2500		
BM (30°-60°)	1906.5	5.9	B2/2500		
BH (60°-80°)	920.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	40.0	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°	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1
2.5°	11824.7	11772.7	11654.0	11292.9	10978.7	10568.0	10152.5	9825.9	9625.5	9256.9	9088.7
5°	11456.1	11480.8	11137.0	10394.8	9568.6	9004.6	8388.6	7898.8	7359.5	7018.1	6659.5
7.5°	10493.8	10444.4	10070.8	9036.7	8032.4	7216.0	6436.8	5803.5	5405.2	5086.1	4818.9
10°	9670.1	9632.9	9155.5	7824.6	6746.0	6135.0	5608.0	5054.0	4626.0	4158.4	3784.9
12.5°	9153.0	9068.9	8519.8	7129.5	6251.2	5682.3	5108.4	4532.0	3940.8	3468.3	3015.6
15°	8979.9	8858.7	8247.6	6889.5	5934.6	5212.3	4492.4	3829.4	3149.1	2627.2	2285.8
17.5°	9294.1	9093.6	8443.1	6847.4	5556.2	4598.8	3713.2	2849.8	2142.3	1744.0	1533.7
20°	10013.9	9783.9	8937.8	6805.4	5135.6	3911.1	2822.6	2013.7	1481.8	1264.1	1147.8
22.5°	11082.6	10765.9	9670.1	6872.1	4747.2	3240.6	2038.4	1422.5	1177.5	1041.5	959.8
25°	12366.5	12101.7	10597.7	7109.6	4440.5	2713.7	1575.8	1162.7	992.0	907.9	846.0
27.5°	13774.1	13351.0	11797.5	7394.2	4160.9	2305.6	1382.9	1039.0	883.1	806.4	774.3
30°	14775.9	14447.0	12801.9	7592.0	3812.1	1998.8	1264.1	1024.2	885.7	794.1	734.7
32.5°	15765.5	15344.9	13643.0	7683.6	3557.3	1786.1	1093.4	893.1	776.7	729.7	670.4
35°	16824.2	16383.9	14481.6	7634.1	3366.9	1645.1	992.0	796.6	665.5	586.3	526.9
37.5°	17895.4	17430.3	15315.2	7456.0	3248.1	1588.1	912.8	757.0	628.3	546.7	482.4
40°	19166.9	18546.0	16096.9	7310.1	3124.4	1558.5	860.8	732.3	601.1	514.5	450.3
42.5°	20206.0	19614.6	16836.7	7233.4	3040.3	1489.2	860.8	712.4	583.8	487.4	420.6
45°	21190.5	20577.0	17635.7	7295.2	3005.6	1402.6	870.8	710.0	571.5	467.5	400.7
47.5°	22014.3	21482.4	18456.9	7527.7	2961.2	1308.6	818.8	744.6	564.1	450.3	381.0
50°	22986.5	22471.9	19542.9	7997.7	2881.9	1214.7	754.5	801.5	561.5	435.4	363.6
52.5°	24357.0	23800.3	21042.1	8532.1	2755.8	1071.2	695.2	794.1	551.7	410.7	346.3
55°	26031.7	25581.5	22778.7	9172.8	2582.6	910.4	601.1	705.0	522.0	368.6	316.6
57.5°	27105.3	26721.8	24079.8	9449.9	2318.0	744.6	529.4	591.2	477.4	329.0	282.0
59°	27231.5	26885.2	24352.0	9358.3	2144.8	680.3	494.8	507.1	465.1	306.7	262.2
60°	27125.1	26766.4	24243.2	9180.3	1984.0	635.8	465.1	450.3	467.5	294.3	247.3
62.5°	26442.3	25828.9	23186.8	8277.3	1734.1	583.8	413.1	368.6	413.1	264.7	220.2
65°	25123.8	24203.6	21096.5	7005.8	1635.2	554.1	351.3	309.2	314.2	232.5	190.5
67.5°	22820.7	21660.5	18313.4	5692.2	1593.1	556.6	296.9	277.0	242.5	197.9	168.2
70°	19179.3	18021.5	14694.3	4682.9	1573.3	556.6	252.3	237.5	202.8	165.8	145.9
72.5°	13591.0	12344.2	9912.4	3678.5	1417.5	554.1	215.2	215.2	165.8	138.5	118.7
75°	7678.7	7688.5	6231.5	2602.4	1177.5	457.7	173.2	170.7	121.2	106.4	89.1
77.5°	4475.0	4395.9	4200.5	1118.2	546.7	207.8	121.2	103.9	84.1	76.7	64.3
80°	2300.6	1892.4	1843.0	405.7	195.4	131.1	84.1	59.4	54.4	49.5	44.5
82.5°	680.3	682.8	608.5	163.2	108.8	86.6	42.0	32.1	29.7	27.2	27.2
85°	47.0	29.7	34.6	49.5	66.8	34.6	2.4	7.4	7.4	9.9	12.4
87.5°	5.0	2.4	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°	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1
2.5°	8903.2	9012.0	8809.1	8814.1	8645.9	8700.3	8502.4	8566.8	8450.5	8539.5	8801.7
5°	6699.0	6723.8	6560.5	6508.5	6533.3	6634.7	6674.3	6493.7	6570.4	6419.5	6409.6
7.5°	4720.0	4749.7	4655.7	4643.3	4821.5	4779.4	4856.0	4670.5	4494.9	4571.6	4430.6
10°	3666.2	3542.5	3349.5	3295.1	3260.5	3282.8	3282.8	3114.5	3089.7	3023.0	3124.4
12.5°	2894.3	2743.4	2560.3	2313.0	2251.2	2246.2	2154.6	2006.2	1959.3	1902.3	1986.4
15°	2102.8	2040.9	1887.5	1748.9	1608.0	1580.7	1432.3	1311.1	1150.3	1128.0	1120.6
17.5°	1479.3	1387.8	1385.3	1306.2	1224.5	1170.1	1031.6	893.1	831.2	823.8	823.8
20°	1108.3	1076.1	1024.2	1014.2	989.5	927.7	804.0	729.7	700.0	702.6	712.4
22.5°	932.6	910.4	863.4	841.1	831.2	776.7	685.2	635.8	620.9	620.9	623.4
25°	833.7	813.8	761.9	727.3	714.9	675.3	603.6	566.5	554.1	554.1	554.1
27.5°	759.4	734.7	680.3	650.6	628.3	583.8	539.2	502.2	489.8	489.8	492.3
30°	707.5	680.3	630.8	591.2	556.6	517.0	479.9	447.7	432.9	430.4	432.9
32.5°	638.2	613.5	564.1	539.2	499.7	452.7	423.0	393.3	378.4	381.0	378.4
35°	497.2	489.8	455.1	462.6	440.3	400.7	373.6	341.4	324.0	321.6	326.6
37.5°	452.7	423.0	383.4	385.9	378.4	363.6	319.2	284.5	272.1	272.1	274.6
40°	418.1	388.4	343.9	321.6	324.0	324.0	277.0	239.9	227.6	225.1	230.1
42.5°	388.4	358.7	309.2	272.1	262.2	274.6	235.0	197.9	185.5	180.6	185.5
45°	368.6	336.4	279.5	237.5	207.8	222.6	192.9	163.2	148.4	148.4	145.9
47.5°	348.8	319.2	257.3	205.3	173.2	165.8	158.4	131.1	116.2	113.8	116.2
50°	331.5	301.8	232.5	178.1	145.9	128.7	128.7	103.9	94.0	89.1	91.5
52.5°	314.2	282.0	210.2	158.4	126.2	103.9	91.5	84.1	76.7	74.2	76.7
55°	289.5	257.3	188.0	136.1	108.8	86.6	71.7	69.3	64.3	59.4	64.3
57.5°	259.8	230.1	165.8	116.2	86.6	66.8	59.4	56.9	52.0	49.5	49.5
59°	242.5	215.2	153.4	101.4	76.7	59.4	54.4	52.0	47.0	42.0	44.5
60°	232.5	210.2	145.9	94.0	69.3	54.4	49.5	47.0	42.0	39.6	42.0
62.5°	205.3	188.0	128.7	76.7	54.4	39.6	34.6	37.1	34.6	32.1	34.6
65°	180.6	165.8	108.8	59.4	42.0	27.2	24.7	32.1	29.7	27.2	29.7
67.5°	160.8	143.5	91.5	44.5	29.7	14.8	17.3	27.2	27.2	24.7	27.2
70°	138.5	123.7	74.2	32.1	14.8	7.4	12.4	19.8	24.7	22.3	24.7
72.5°	113.8	96.5	56.9	22.3	7.4	0.0	7.4	17.3	24.7	22.3	24.7
75°	89.1	71.7	42.0	12.4	0.0	0.0	2.4	14.8	24.7	22.3	24.7
77.5°	64.3	52.0	24.7	2.4	0.0	0.0	2.4	14.8	24.7	22.3	24.7
80°	42.0	37.1	9.9	0.0	0.0	0.0	2.4	14.8	24.7	24.7	27.2
82.5°	27.2	19.8	0.0	0.0	0.0	0.0	5.0	19.8	27.2	29.7	29.7
85°	12.4	0.0	0.0	0.0	0.0	0.0	9.9	24.7	32.1	32.1	32.1
87.5°	0.0	0.0	0.0	0.0	0.0	5.0	17.3	29.7	37.1	37.1	37.1
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°	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1
2.5°	8846.3	9002.1	9222.3	9561.2	9835.7	10268.7	10600.2	11052.9	11510.5	11649.1	11864.3
5°	6511.0	6711.4	7211.1	7666.3	7953.3	8868.5	9447.4	10360.2	11179.1	11572.4	12000.3
7.5°	4522.1	4759.6	5140.5	5776.3	6379.9	7124.5	8059.6	9103.6	10303.3	10864.9	11468.5
10°	3173.8	3470.7	4007.5	4529.5	5289.0	5996.5	6919.2	8072.0	9395.5	10058.4	10815.4
12.5°	2003.8	2268.4	2978.4	3564.7	4512.2	5333.5	6184.5	7228.4	8762.1	9442.5	10236.6
15°	1145.4	1368.0	1699.5	2451.5	3502.8	4588.9	5650.2	6862.3	8438.1	9276.7	10135.1
17.5°	853.4	912.8	1061.3	1486.7	2444.1	3713.2	5157.9	6751.0	8658.3	9642.8	10622.4
20°	717.4	757.0	826.3	994.5	1558.5	2859.7	4678.0	6770.7	9370.7	10607.6	11537.8
22.5°	643.2	667.9	724.9	833.7	1063.7	2082.9	4116.4	6887.0	10234.0	11792.6	12866.2
25°	564.1	596.2	645.6	739.7	885.7	1444.7	3562.2	7146.8	11443.7	13296.6	14305.9
27.5°	502.2	531.8	581.3	667.9	776.7	1103.3	2916.6	7369.4	12720.2	14810.6	15636.8
30°	440.3	470.0	519.5	588.8	687.7	893.1	2221.5	7500.5	13959.6	15946.0	16581.8
32.5°	388.4	413.1	460.1	522.0	603.6	757.0	1751.5	7364.5	14907.1	16977.6	17403.1
35°	336.4	366.1	405.7	462.6	534.4	645.6	1457.0	6894.4	15720.9	18038.9	18192.3
37.5°	282.0	316.6	358.7	410.7	467.5	593.7	1170.1	6374.9	16591.7	19362.3	19110.0
40°	237.5	269.6	309.2	366.1	418.1	544.2	900.5	5820.8	17531.7	20604.2	20111.9
42.5°	192.9	227.6	274.6	326.6	413.1	475.0	697.6	5246.9	18375.3	21685.3	21017.3
45°	153.4	183.1	232.5	299.3	410.7	408.1	539.2	4680.4	19011.1	22457.1	21692.7
47.5°	121.2	145.9	195.4	291.9	378.4	346.3	432.9	4329.1	19679.0	23152.2	22209.7
50°	96.5	121.2	168.2	304.3	331.5	296.9	363.6	4386.1	20324.6	23506.0	22422.4
52.5°	81.7	106.4	145.9	239.9	254.8	259.8	319.2	4648.3	21158.3	23884.4	22845.4
55°	71.7	94.0	123.7	168.2	197.9	232.5	291.9	4838.7	22274.0	24695.9	23778.1
57.5°	56.9	81.7	111.3	143.5	163.2	202.8	269.6	4853.6	23283.3	25737.3	25017.4
59°	52.0	74.2	103.9	136.1	145.9	183.1	254.8	4727.4	23320.4	25893.1	25586.4
60°	47.0	71.7	99.0	126.2	138.5	173.2	242.5	4581.4	22983.9	25645.8	25821.4
62.5°	39.6	61.8	86.6	101.4	118.7	143.5	210.2	4052.1	21353.7	24525.2	25386.0
65°	34.6	54.4	74.2	84.1	99.0	123.7	185.5	3243.1	19552.8	23006.2	24139.2
67.5°	32.1	49.5	64.3	71.7	86.6	113.8	165.8	2290.7	17220.1	21079.2	22266.6
70°	29.7	47.0	56.9	66.8	76.7	96.5	141.0	1335.8	13264.4	17699.9	18954.2
72.5°	29.7	44.5	49.5	56.9	66.8	86.6	131.1	722.3	9068.9	13501.9	15122.3
75°	29.7	42.0	44.5	49.5	59.4	79.1	116.2	378.4	5862.9	9380.6	11577.4
77.5°	29.7	39.6	44.5	47.0	56.9	69.3	101.4	237.5	3906.1	6570.4	7824.6
80°	32.1	39.6	42.0	47.0	54.4	64.3	84.1	158.4	2295.7	3953.1	4762.1
82.5°	34.6	39.6	44.5	49.5	56.9	61.8	74.2	99.0	1058.8	2614.8	2958.6
85°	37.1	42.0	47.0	52.0	59.4	61.8	69.3	71.7	173.2	1180.0	1595.6
87.5°	39.6	44.5	49.5	54.4	64.3	64.3	64.3	64.3	59.4	126.2	321.6
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: P651520

CATALOG NUMBER: GALN-SA7D-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1	10756.1
2.5°	12136.4	12415.9	12611.4	12660.8	12519.9	12455.5	12277.4	12000.3	11832.1	11824.7
5°	12789.5	13445.1	13900.2	13976.9	13704.8	13244.7	12697.9	11992.9	11579.8	11456.1
7.5°	12678.2	13826.0	14558.2	14664.6	14207.0	13328.8	12270.0	11134.5	10684.3	10493.8
10°	12220.5	13620.7	14667.1	14835.3	14224.3	12987.4	11641.6	10375.1	9816.0	9670.1
12.5°	11829.7	13244.7	14174.8	14407.3	13944.8	12710.4	11265.6	9887.7	9289.1	9153.0
15°	11659.0	12799.3	13368.4	13487.1	13410.4	12537.2	11226.1	9813.5	9128.3	8979.9
17.5°	11829.7	12420.9	12492.6	12613.8	12784.5	12519.9	11607.1	10216.7	9477.1	9294.1
20°	12277.4	12091.9	11795.0	11847.0	12237.8	12591.6	12284.8	11109.8	10209.3	10013.9
22.5°	13039.4	12010.2	11337.4	11292.9	11787.6	12831.6	13279.3	12319.5	11275.5	11082.6
25°	13974.5	12215.6	11169.2	11072.7	11611.9	13182.8	14360.3	13801.3	12660.8	12366.5
27.5°	14993.6	12641.1	11169.2	11075.1	11597.1	13494.5	15285.5	15112.3	14095.7	13774.1
30°	15552.7	12992.4	11330.0	11223.6	11780.2	13675.1	15780.3	16277.6	15174.2	14775.9
32.5°	16052.4	13479.7	11644.1	11443.7	12163.6	13942.3	16223.1	17267.1	16032.7	15765.5
35°	16512.5	14001.6	12077.0	11844.5	12668.2	14308.4	16712.9	18306.0	17227.5	16824.2
37.5°	17019.7	14607.7	12752.4	12554.4	13511.8	15020.8	17294.2	19671.6	18402.5	17895.4
40°	17571.3	15310.3	13863.1	13779.0	14852.6	15827.3	18028.9	21128.6	19743.3	19166.9
42.5°	18132.9	16119.2	15223.7	15362.2	16371.6	16957.8	18783.5	22249.2	20841.7	20206.0
45°	18642.4	17153.3	16992.5	17677.7	18142.8	18061.1	19342.6	23038.4	21799.1	21190.5
47.5°	19285.6	18659.8	19132.3	20188.6	20201.0	19260.9	19765.6	23684.1	22622.8	22014.3
50°	20005.5	20438.5	21895.5	22971.6	22682.2	20440.9	20260.4	24448.5	23473.8	22986.5
52.5°	20839.2	22429.9	24448.5	25643.3	24967.9	21727.3	21084.1	25274.7	24824.5	24357.0
55°	21808.9	23787.9	26994.0	27946.4	27266.1	23325.4	22335.9	26395.4	26350.8	26031.7
57.5°	22904.8	25222.8	28468.4	29757.2	29151.2	25200.5	24084.8	27451.7	27283.4	27105.3
59°	23770.6	25960.0	29119.0	30454.8	30088.7	26514.0	25259.9	28109.7	27498.7	27231.5
60°	24295.1	26459.6	29359.0	30548.8	30464.7	27295.8	26004.5	28431.3	27496.2	27125.1
62.5°	25851.1	27332.9	29267.4	30130.8	30459.8	28794.9	28188.8	28785.0	26986.6	26442.3
65°	26405.2	27043.4	27751.0	27644.6	27926.6	28718.2	29584.0	28396.6	25898.1	25123.8
67.5°	25326.6	23869.6	24119.5	23409.5	23271.0	25532.0	29017.5	26496.8	23768.2	22820.7
70°	21348.8	18286.3	18160.0	18486.6	17591.1	20671.0	26056.5	22838.0	20252.9	19179.3
72.5°	16804.4	12923.1	11859.4	13061.6	13034.4	15770.4	21645.7	16205.8	13682.6	13591.0
75°	13215.0	8997.2	7896.3	8091.8	8467.8	11416.6	17239.8	10291.0	8425.7	7678.7
77.5°	8871.0	6374.9	5947.0	5707.0	6112.7	7329.8	10906.9	5580.9	4724.9	4475.0
80°	5113.4	4631.0	5259.3	4774.4	4992.1	4618.6	5425.0	2560.3	2125.0	2300.6
82.5°	3327.2	2637.0	2810.2	2087.9	2854.8	2879.5	1741.5	757.0	640.7	680.3
85°	2080.5	1236.9	695.2	494.8	984.6	1810.8	544.2	47.0	54.4	47.0
87.5°	539.2	205.3	86.6	128.7	158.4	141.0	126.2	7.4	2.4	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)