

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: P651355

Luminaire Tested: **GALN-SA4D-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651355
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-SA4D-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 18482.6 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 245
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

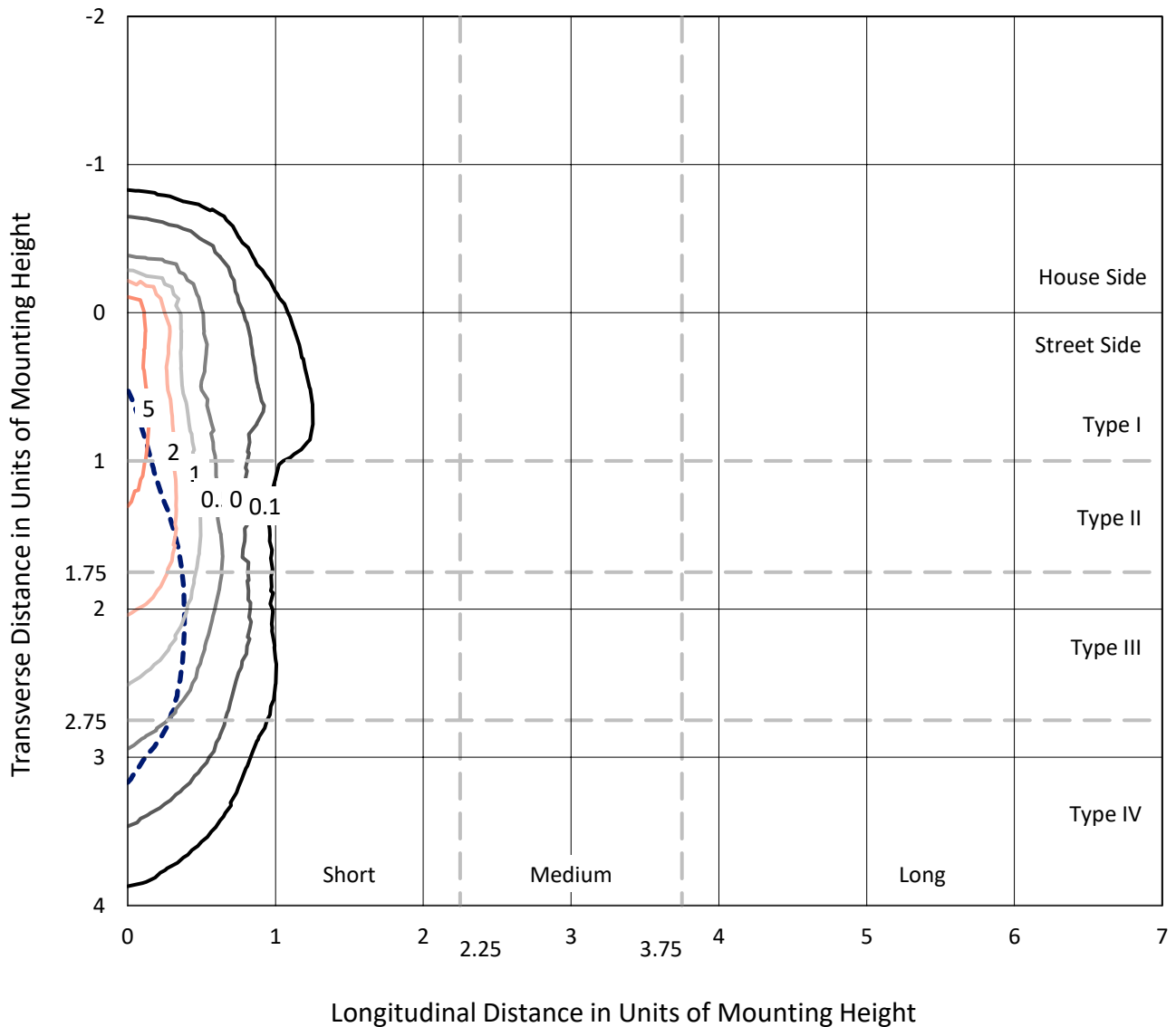




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Iso-Footcandle Lines of Horizontal Illumination

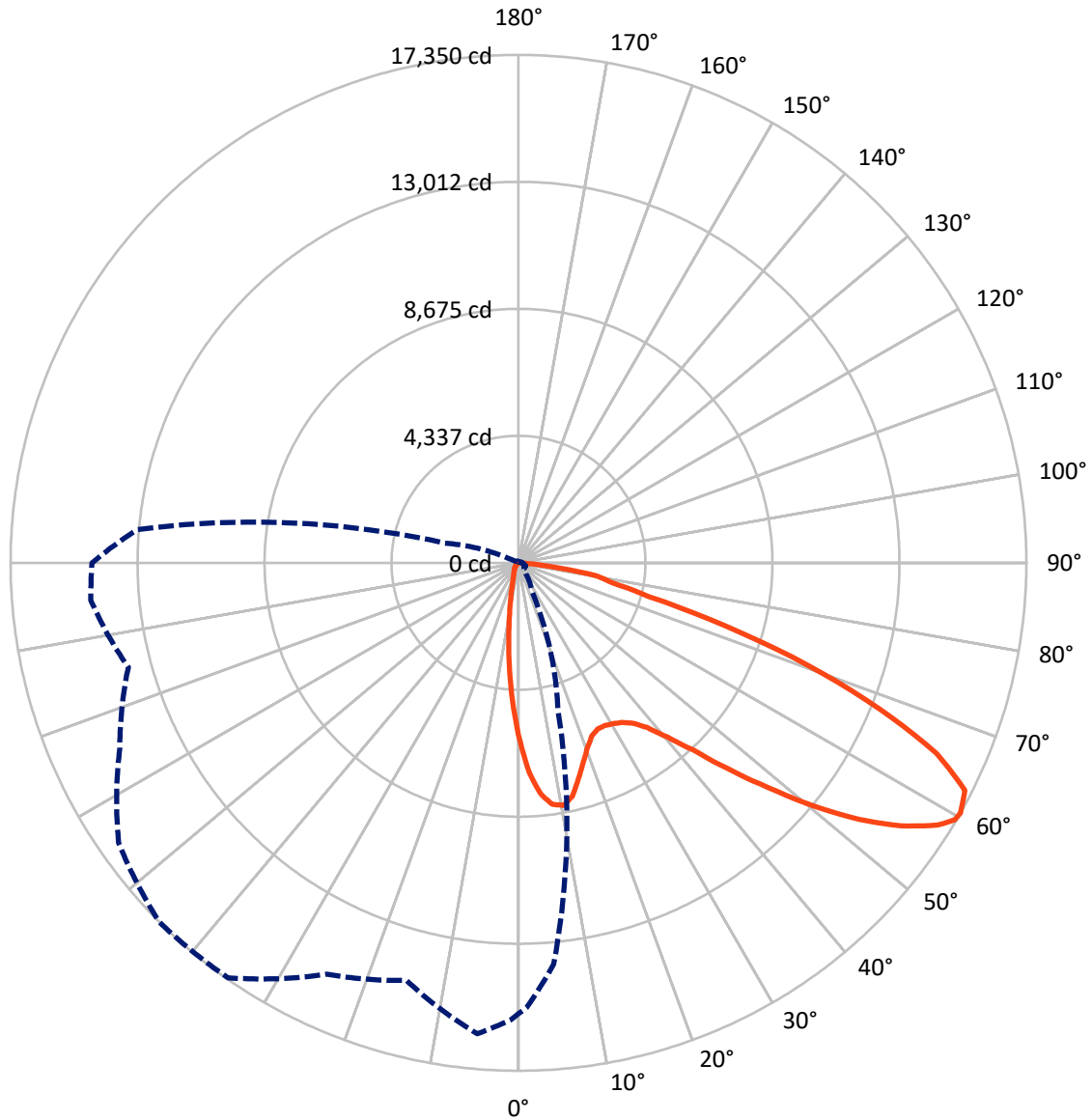
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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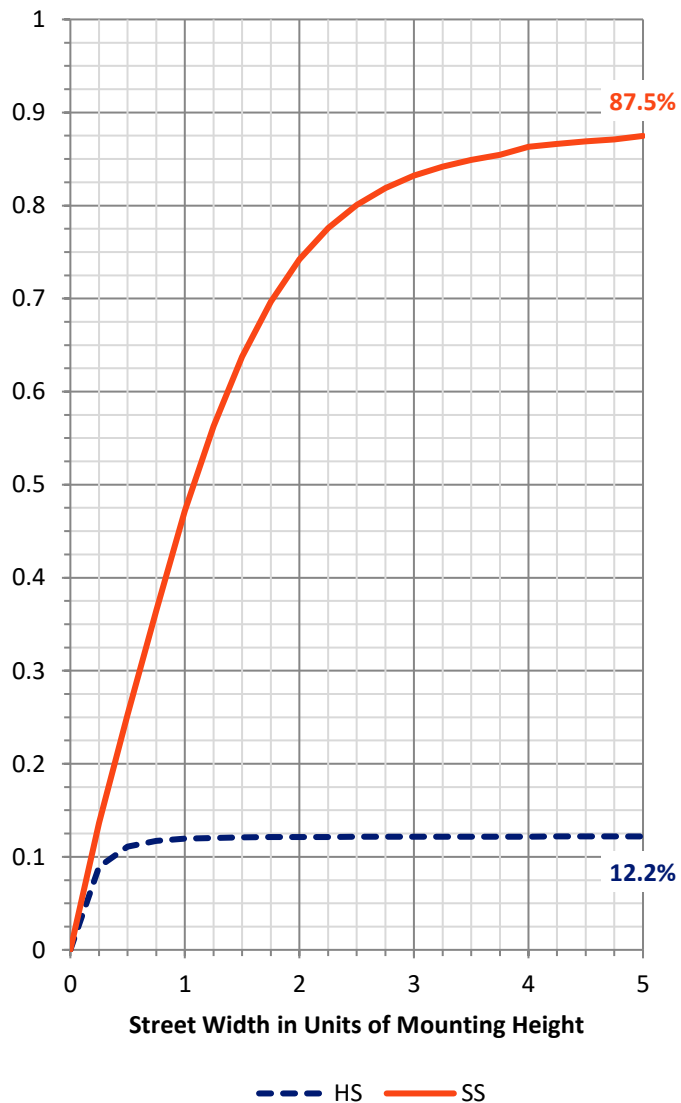
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2279.6	0.0	2279.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	16203.0	0.0	16203.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	18482.6	0.0	18482.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.4	2.5
10°-20°	902.3	4.9
20°-30°	1323.1	7.2
30°-40°	1967.6	10.6
40°-50°	2863.5	15.5
50°-60°	4129.5	22.3
60°-70°	4542.0	24.6
70°-80°	2034.4	11.0
80°-90°	265.8	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°	18482.6	100.0
0°-180°	18482.6	100.0

Coefficient of Utilization



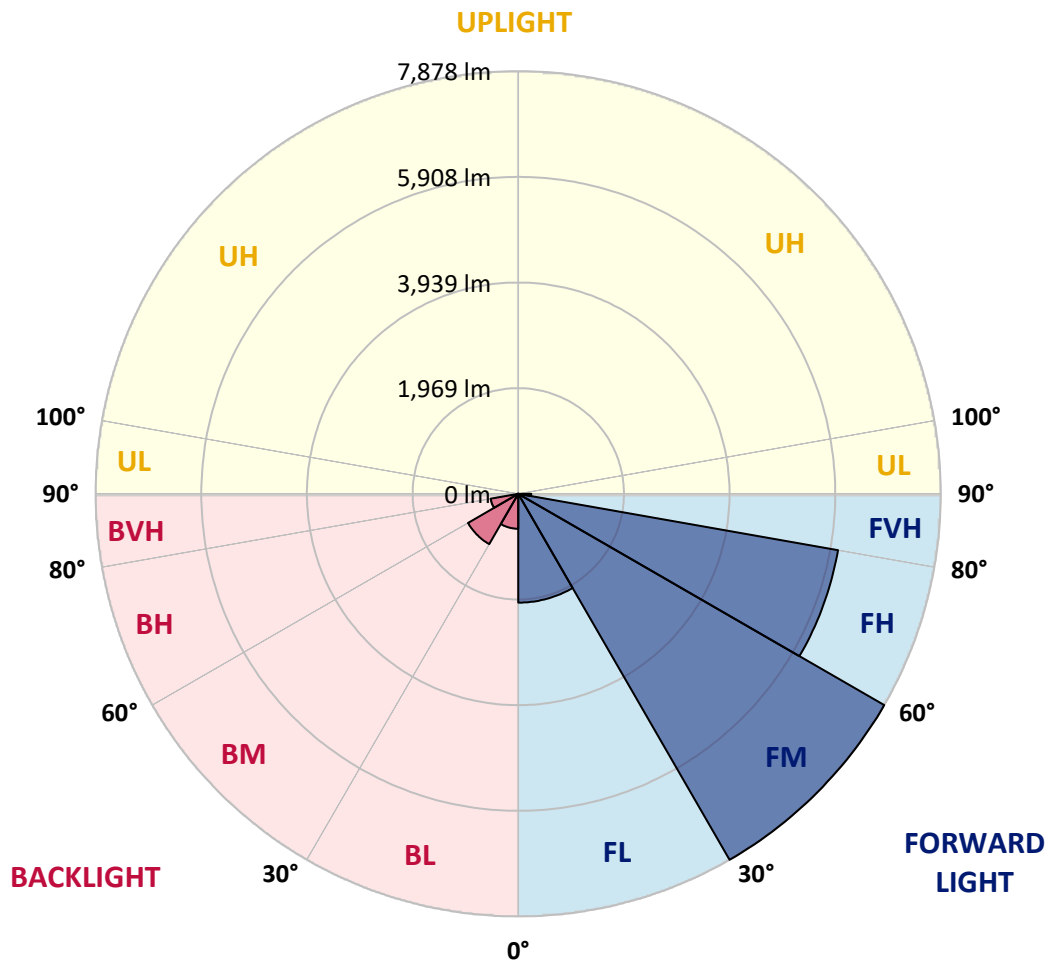
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2028.4	11.0			
FM (30°-60°)	7877.9	42.6			
FH (60°-80°)	6053.6	32.8			G3/7500
FVH (80°-90°)	243.1	1.3			G3/500
BL (0°-30°)	651.4	3.5	B2/1000		
BM (30°-60°)	1082.8	5.9	B2/2500		
BH (60°-80°)	522.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	22.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8
2.5°	6715.7	6686.2	6618.8	6413.6	6235.3	6002.0	5766.0	5580.5	5466.8	5257.3	5161.8
5°	6506.4	6520.4	6325.2	5903.7	5434.4	5114.0	4764.3	4486.1	4179.8	3985.9	3782.1
7.5°	5959.8	5931.7	5719.6	5132.4	4561.9	4098.3	3655.7	3296.0	3069.8	2888.6	2736.9
10°	5492.0	5471.0	5199.7	4443.9	3831.3	3484.3	3185.0	2870.3	2627.3	2361.8	2149.6
12.5°	5198.4	5150.6	4838.7	4049.1	3550.4	3227.2	2901.3	2573.9	2238.1	1969.8	1712.6
15°	5100.0	5031.2	4684.1	3912.8	3370.5	2960.2	2551.4	2174.9	1788.6	1492.1	1298.2
17.5°	5278.5	5164.7	4795.1	3889.0	3155.5	2611.8	2108.9	1618.5	1216.7	990.5	871.1
20°	5687.3	5556.7	5076.1	3865.1	2916.7	2221.2	1603.0	1143.7	841.6	718.0	651.9
22.5°	6294.2	6114.4	5492.0	3903.0	2696.2	1840.5	1157.7	807.9	668.8	591.5	545.1
25°	7023.4	6873.1	6018.9	4037.9	2521.9	1541.2	895.0	660.4	563.4	515.6	480.5
27.5°	7822.8	7582.6	6700.2	4199.4	2363.1	1309.4	785.4	590.0	501.6	458.0	439.8
30°	8391.8	8205.0	7270.7	4311.8	2165.1	1135.2	718.0	581.6	503.0	451.0	417.3
32.5°	8953.9	8715.0	7748.4	4363.8	2020.3	1014.4	621.0	507.2	441.2	414.4	380.7
35°	9555.2	9305.1	8224.6	4335.7	1912.2	934.3	563.4	452.4	377.9	333.0	299.2
37.5°	10163.5	9899.4	8698.1	4234.5	1844.7	902.0	518.4	429.9	356.8	310.5	274.0
40°	10885.7	10533.0	9142.1	4151.7	1774.5	885.2	489.0	415.9	341.4	292.2	255.7
42.5°	11475.8	11140.0	9562.2	4108.1	1726.7	845.8	489.0	404.6	331.6	276.8	238.8
45°	12034.9	11686.5	10016.0	4143.3	1707.1	796.6	494.5	403.3	324.5	265.5	227.6
47.5°	12502.8	12200.7	10482.5	4275.3	1681.7	743.2	465.1	422.9	320.3	255.7	216.4
50°	13054.9	12762.7	11099.2	4542.2	1636.8	689.9	428.5	455.2	318.9	247.3	206.5
52.5°	13833.3	13517.1	11950.6	4845.8	1565.1	608.4	394.8	451.0	313.3	233.2	196.7
55°	14784.4	14528.7	12936.9	5209.6	1466.8	517.0	341.4	400.4	296.5	209.3	179.8
57.5°	15394.2	15176.4	13675.9	5366.9	1316.4	422.9	300.7	335.8	271.1	186.9	160.1
59°	15465.8	15269.1	13830.5	5315.0	1218.1	386.4	281.0	288.0	264.2	174.3	148.9
60°	15405.4	15201.7	13768.7	5213.8	1126.8	361.0	264.2	255.7	265.5	167.2	140.5
62.5°	15017.7	14669.2	13168.7	4701.0	984.9	331.6	234.6	209.3	234.6	150.4	125.1
65°	14268.8	13746.1	11981.6	3978.9	928.7	314.7	199.5	175.6	178.5	132.0	108.2
67.5°	12960.8	12301.9	10401.0	3232.8	904.8	316.1	168.6	157.4	137.7	112.4	95.5
70°	10892.7	10235.1	8345.5	2659.6	893.6	316.1	143.3	134.9	115.2	94.1	82.9
72.5°	7718.9	7010.7	5629.7	2089.2	805.0	314.7	122.2	122.2	94.1	78.7	67.4
75°	4361.0	4366.6	3539.1	1478.1	668.8	260.0	98.3	97.0	68.9	60.4	50.5
77.5°	2541.6	2496.6	2385.7	635.0	310.5	118.0	68.9	59.0	47.8	43.6	36.5
80°	1306.6	1074.8	1046.7	230.4	111.0	74.4	47.8	33.7	30.9	28.1	25.3
82.5°	386.4	387.8	345.7	92.8	61.8	49.2	23.9	18.2	16.8	15.5	15.5
85°	26.7	16.8	19.7	28.1	37.9	19.7	1.4	4.2	4.2	5.6	7.1
87.5°	2.8	1.4	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°	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8
2.5°	5056.4	5118.2	5003.1	5005.9	4910.3	4941.3	4828.9	4865.4	4799.3	4850.0	4998.8
5°	3804.6	3818.7	3726.0	3696.4	3710.5	3768.1	3790.6	3688.0	3731.6	3645.9	3640.3
7.5°	2680.7	2697.5	2644.1	2637.1	2738.3	2714.4	2758.0	2652.6	2552.9	2596.3	2516.3
10°	2082.1	2011.9	1902.3	1871.4	1851.7	1864.4	1864.4	1768.9	1754.8	1716.9	1774.5
12.5°	1643.8	1558.1	1454.2	1313.6	1278.5	1275.7	1223.7	1139.4	1112.7	1080.4	1128.2
15°	1194.2	1159.1	1072.0	993.3	913.2	897.8	813.5	744.6	653.3	640.7	636.5
17.5°	840.2	788.2	786.8	741.8	695.4	664.6	585.8	507.2	472.1	467.8	467.8
20°	629.4	611.2	581.6	576.0	562.0	526.9	456.6	414.4	397.6	399.0	404.6
22.5°	529.7	517.0	490.3	477.7	472.1	441.2	389.2	361.0	352.6	352.6	354.1
25°	473.5	462.2	432.7	413.1	406.0	383.6	342.8	321.8	314.7	314.7	314.7
27.5°	431.3	417.3	386.4	369.5	356.8	331.6	306.3	285.2	278.2	278.2	279.5
30°	401.8	386.4	358.3	335.8	316.1	293.7	272.6	254.3	245.9	244.5	245.9
32.5°	362.5	348.4	320.3	306.3	283.8	257.1	240.3	223.4	215.0	216.4	215.0
35°	282.4	278.2	258.5	262.7	250.1	227.6	212.2	193.9	184.0	182.7	185.4
37.5°	257.1	240.3	217.7	219.2	215.0	206.5	181.2	161.6	154.6	154.6	155.9
40°	237.4	220.6	195.3	182.7	184.0	184.0	157.4	136.2	129.3	127.8	130.7
42.5°	220.6	203.7	175.6	154.6	148.9	155.9	133.5	112.4	105.4	102.6	105.4
45°	209.3	191.1	158.8	134.9	118.0	126.5	109.6	92.8	84.3	84.3	82.9
47.5°	198.1	181.2	146.1	116.6	98.3	94.1	89.9	74.4	66.0	64.6	66.0
50°	188.3	171.4	132.0	101.2	82.9	73.1	73.1	59.0	53.4	50.5	52.0
52.5°	178.5	160.1	119.4	89.9	71.7	59.0	52.0	47.8	43.6	42.1	43.6
55°	164.4	146.1	106.8	77.3	61.8	49.2	40.7	39.4	36.5	33.7	36.5
57.5°	147.5	130.7	94.1	66.0	49.2	37.9	33.7	32.3	29.5	28.1	28.1
59°	137.7	122.2	87.1	57.6	43.6	33.7	30.9	29.5	26.7	23.9	25.3
60°	132.0	119.4	82.9	53.4	39.4	30.9	28.1	26.7	23.9	22.5	23.9
62.5°	116.6	106.8	73.1	43.6	30.9	22.5	19.7	21.1	19.7	18.2	19.7
65°	102.6	94.1	61.8	33.7	23.9	15.5	14.0	18.2	16.8	15.5	16.8
67.5°	91.3	81.5	52.0	25.3	16.8	8.4	9.8	15.5	15.5	14.0	15.5
70°	78.7	70.2	42.1	18.2	8.4	4.2	7.1	11.3	14.0	12.6	14.0
72.5°	64.6	54.8	32.3	12.6	4.2	0.0	4.2	9.8	14.0	12.6	14.0
75°	50.5	40.7	23.9	7.1	0.0	0.0	1.4	8.4	14.0	12.6	14.0
77.5°	36.5	29.5	14.0	1.4	0.0	0.0	1.4	8.4	14.0	12.6	14.0
80°	23.9	21.1	5.6	0.0	0.0	0.0	1.4	8.4	14.0	14.0	15.5
82.5°	15.5	11.3	0.0	0.0	0.0	0.0	2.8	11.3	15.5	16.8	16.8
85°	7.1	0.0	0.0	0.0	0.0	0.0	5.6	14.0	18.2	18.2	18.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	9.8	16.8	21.1	21.1
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°	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8
2.5°	5024.1	5112.7	5237.7	5430.2	5586.2	5832.0	6020.3	6277.4	6537.3	6616.0	6738.2
5°	3697.9	3811.7	4095.5	4353.9	4516.9	5036.8	5365.6	5884.0	6349.0	6572.4	6815.5
7.5°	2568.2	2703.1	2919.5	3280.6	3623.4	4046.3	4577.4	5170.3	5851.7	6170.6	6513.4
10°	1802.6	1971.1	2276.1	2572.5	3003.8	3405.6	3929.7	4584.4	5336.1	5712.6	6142.5
12.5°	1138.0	1288.3	1691.6	2024.5	2562.7	3029.1	3512.4	4105.3	4976.4	5362.7	5813.7
15°	650.5	776.9	965.2	1392.4	1989.5	2606.2	3208.9	3897.4	4792.4	5268.6	5756.1
17.5°	484.8	518.4	602.7	844.4	1388.1	2108.9	2929.4	3834.1	4917.4	5476.5	6032.9
20°	407.5	429.9	469.3	564.8	885.2	1624.1	2656.8	3845.4	5322.0	6024.5	6552.7
22.5°	365.3	379.4	411.7	473.5	604.2	1183.0	2337.9	3911.4	5812.3	6697.5	7307.2
25°	320.3	338.6	366.7	420.1	503.0	820.5	2023.1	4058.9	6499.3	7551.7	8124.9
27.5°	285.2	302.1	330.2	379.4	441.2	626.6	1656.4	4185.4	7224.4	8411.5	8880.8
30°	250.1	266.9	295.0	334.4	390.6	507.2	1261.7	4259.8	7928.2	9056.4	9417.4
32.5°	220.6	234.6	261.3	296.5	342.8	429.9	994.7	4182.5	8466.3	9642.2	9883.9
35°	191.1	207.9	230.4	262.7	303.4	366.7	827.5	3915.6	8928.6	10245.0	10332.1
37.5°	160.1	179.8	203.7	233.2	265.5	337.2	664.6	3620.6	9423.1	10996.7	10853.4
40°	134.9	153.1	175.6	207.9	237.4	309.1	511.4	3305.9	9957.0	11701.9	11422.4
42.5°	109.6	129.3	155.9	185.4	234.6	269.8	396.2	2979.9	10436.1	12315.9	11936.6
45°	87.1	103.9	132.0	170.0	233.2	231.8	306.3	2658.2	10797.2	12754.3	12320.1
47.5°	68.9	82.9	111.0	165.8	215.0	196.7	245.9	2458.7	11176.5	13149.0	12613.7
50°	54.8	68.9	95.5	172.8	188.3	168.6	206.5	2491.0	11543.1	13349.9	12734.6
52.5°	46.3	60.4	82.9	136.2	144.7	147.5	181.2	2639.9	12016.6	13564.9	12974.9
55°	40.7	53.4	70.2	95.5	112.4	132.0	165.8	2748.1	12650.3	14025.8	13504.5
57.5°	32.3	46.3	63.2	81.5	92.8	115.2	153.1	2756.5	13223.5	14617.3	14208.4
59°	29.5	42.1	59.0	77.3	82.9	103.9	144.7	2684.9	13244.6	14705.7	14531.6
60°	26.7	40.7	56.2	71.7	78.7	98.3	137.7	2602.0	13053.5	14565.3	14665.0
62.5°	22.5	35.2	49.2	57.6	67.4	81.5	119.4	2301.3	12127.6	13928.8	14417.8
65°	19.7	30.9	42.1	47.8	56.2	70.2	105.4	1841.9	11104.8	13066.2	13709.6
67.5°	18.2	28.1	36.5	40.7	49.2	64.6	94.1	1301.0	9780.0	11971.7	12646.1
70°	16.8	26.7	32.3	37.9	43.6	54.8	80.1	758.7	7533.4	10052.6	10764.8
72.5°	16.8	25.3	28.1	32.3	37.9	49.2	74.4	410.2	5150.6	7668.3	8588.5
75°	16.8	23.9	25.3	28.1	33.7	45.0	66.0	215.0	3329.8	5327.7	6575.2
77.5°	16.8	22.5	25.3	26.7	32.3	39.4	57.6	134.9	2218.5	3731.6	4443.9
80°	18.2	22.5	23.9	26.7	30.9	36.5	47.8	89.9	1303.8	2245.1	2704.6
82.5°	19.7	22.5	25.3	28.1	32.3	35.2	42.1	56.2	601.3	1485.0	1680.3
85°	21.1	23.9	26.7	29.5	33.7	35.2	39.4	40.7	98.3	670.2	906.2
87.5°	22.5	25.3	28.1	30.9	36.5	36.5	36.5	36.5	33.7	71.7	182.7
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: P651355

CATALOG NUMBER: GALN-SA4D-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8	6108.8
2.5°	6892.8	7051.5	7162.5	7190.6	7110.5	7074.0	6972.8	6815.5	6719.9	6715.7
5°	7263.6	7635.9	7894.5	7938.0	7783.5	7522.2	7211.7	6811.3	6576.6	6506.4
7.5°	7200.5	7852.3	8268.2	8328.6	8068.7	7569.9	6968.6	6323.7	6068.1	5959.8
10°	6940.5	7735.8	8330.0	8425.6	8078.6	7376.1	6611.8	5892.4	5574.9	5492.0
12.5°	6718.5	7522.2	8050.5	8182.5	7919.8	7218.7	6398.2	5615.6	5275.7	5198.4
15°	6621.6	7269.3	7592.5	7659.8	7616.3	7120.3	6375.7	5573.5	5184.3	5100.0
17.5°	6718.5	7054.3	7095.1	7163.9	7260.9	7110.5	6592.1	5802.5	5382.4	5278.5
20°	6972.8	6867.4	6698.9	6728.3	6950.4	7151.3	6977.0	6309.7	5798.3	5687.3
22.5°	7405.6	6821.1	6438.9	6413.6	6694.6	7287.5	7541.8	6996.7	6403.8	6294.2
25°	7936.6	6937.7	6343.4	6288.6	6594.9	7487.1	8155.8	7838.3	7190.6	7023.4
27.5°	8515.5	7179.4	6343.4	6290.0	6586.5	7664.1	8681.3	8582.9	8005.5	7822.8
30°	8833.0	7378.8	6434.7	6374.4	6690.4	7766.6	8962.3	9244.7	8618.1	8391.8
32.5°	9116.8	7655.6	6613.2	6499.3	6908.2	7918.4	9213.7	9806.6	9105.6	8953.9
35°	9378.2	7952.1	6859.0	6727.0	7194.8	8126.3	9491.9	10396.7	9784.2	9555.2
37.5°	9666.1	8296.3	7242.6	7130.2	7673.9	8530.9	9822.1	11172.3	10451.5	10163.5
40°	9979.5	8695.4	7873.4	7825.7	8435.4	8988.9	10239.3	11999.8	11213.1	10885.7
42.5°	10298.4	9154.7	8646.2	8724.8	9298.0	9631.0	10667.9	12636.3	11836.8	11475.8
45°	10587.8	9742.1	9650.7	10039.9	10304.0	10257.7	10985.4	13084.4	12380.5	12034.9
47.5°	10953.1	10597.6	10866.0	11465.9	11472.9	10939.1	11225.7	13451.1	12848.4	12502.8
50°	11361.9	11607.8	12435.4	13046.5	12882.1	11609.2	11506.6	13885.2	13331.7	13054.9
52.5°	11835.4	12738.8	13885.2	14563.8	14180.3	12339.8	11974.5	14354.5	14098.8	13833.3
55°	12386.2	13510.2	15330.9	15871.9	15485.5	13247.4	12685.4	14991.0	14965.7	14784.4
57.5°	13008.6	14325.0	16168.3	16900.3	16556.1	14312.4	13678.7	15590.9	15495.3	15394.2
59°	13500.3	14743.7	16537.8	17296.5	17088.6	15058.4	14346.1	15964.6	15617.5	15465.8
60°	13798.1	15027.5	16674.1	17349.9	17302.1	15502.4	14769.0	16147.3	15616.2	15405.4
62.5°	14681.8	15523.4	16622.1	17112.5	17299.3	16353.7	16009.5	16348.2	15326.7	15017.7
65°	14996.5	15359.1	15760.8	15700.5	15860.7	16310.2	16802.0	16127.6	14708.6	14268.8
67.5°	14384.0	13556.5	13698.4	13295.2	13216.5	14500.6	16480.2	15048.6	13498.9	12960.8
70°	12124.9	10385.5	10313.9	10499.3	9990.7	11739.9	14798.5	12970.7	11502.4	10892.7
72.5°	9543.9	7339.5	6735.4	7418.2	7402.7	8956.6	12293.4	9203.9	7770.8	7718.9
75°	7505.3	5109.8	4484.6	4595.6	4809.2	6483.9	9791.2	5844.6	4785.3	4361.0
77.5°	5038.2	3620.6	3377.5	3241.2	3471.6	4162.9	6194.5	3169.6	2683.5	2541.6
80°	2904.1	2630.1	2987.0	2711.6	2835.2	2623.1	3081.1	1454.2	1206.8	1306.6
82.5°	1889.6	1497.7	1596.0	1185.8	1621.4	1635.4	989.1	429.9	363.9	386.4
85°	1181.6	702.5	394.8	281.0	559.2	1028.5	309.1	26.7	30.9	26.7
87.5°	306.3	116.6	49.2	73.1	89.9	80.1	71.7	4.2	1.4	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)