

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: P527767

Luminaire Tested: **GALN-SA2D-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527767
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-SA2D-740-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 8601 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

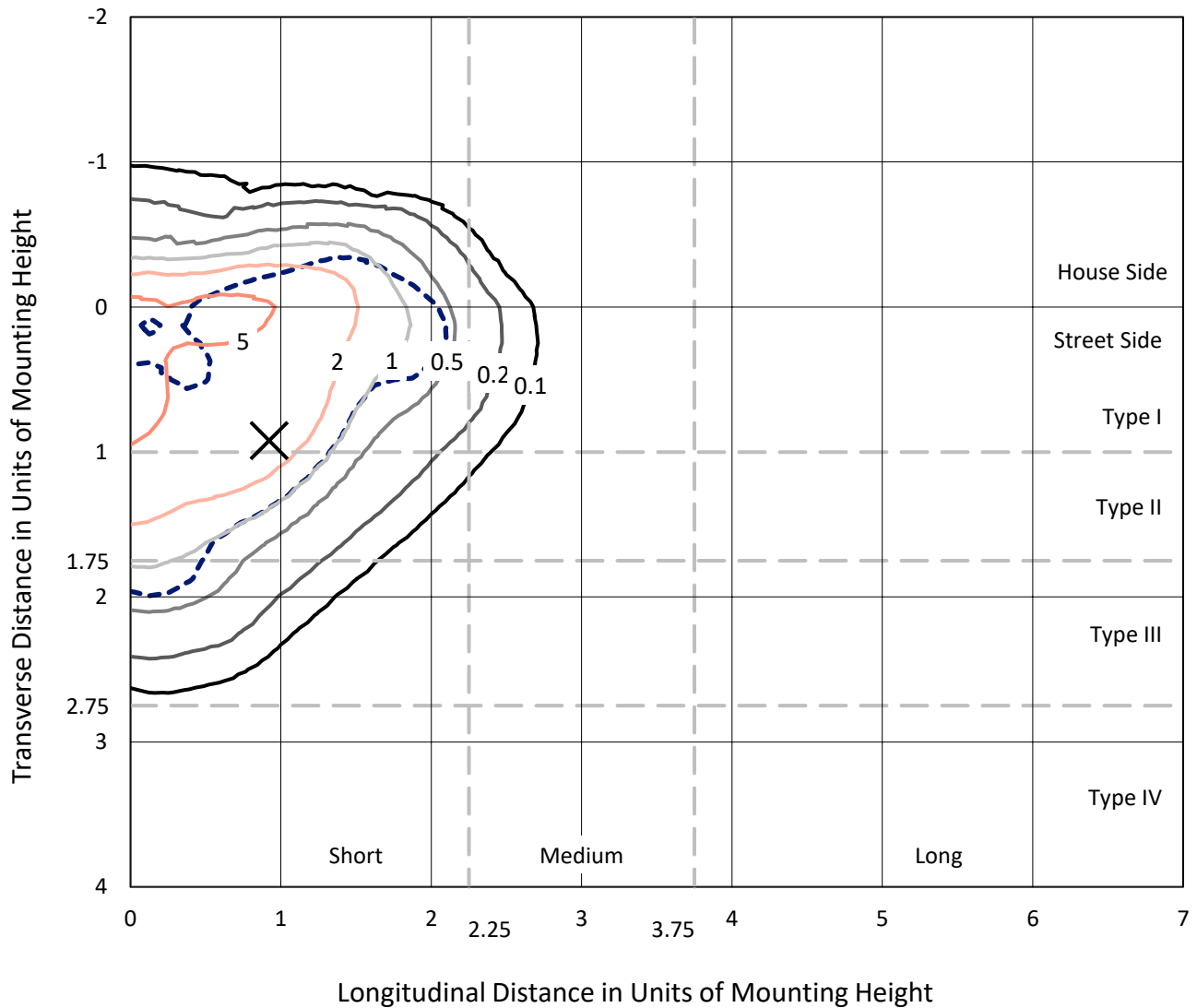
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

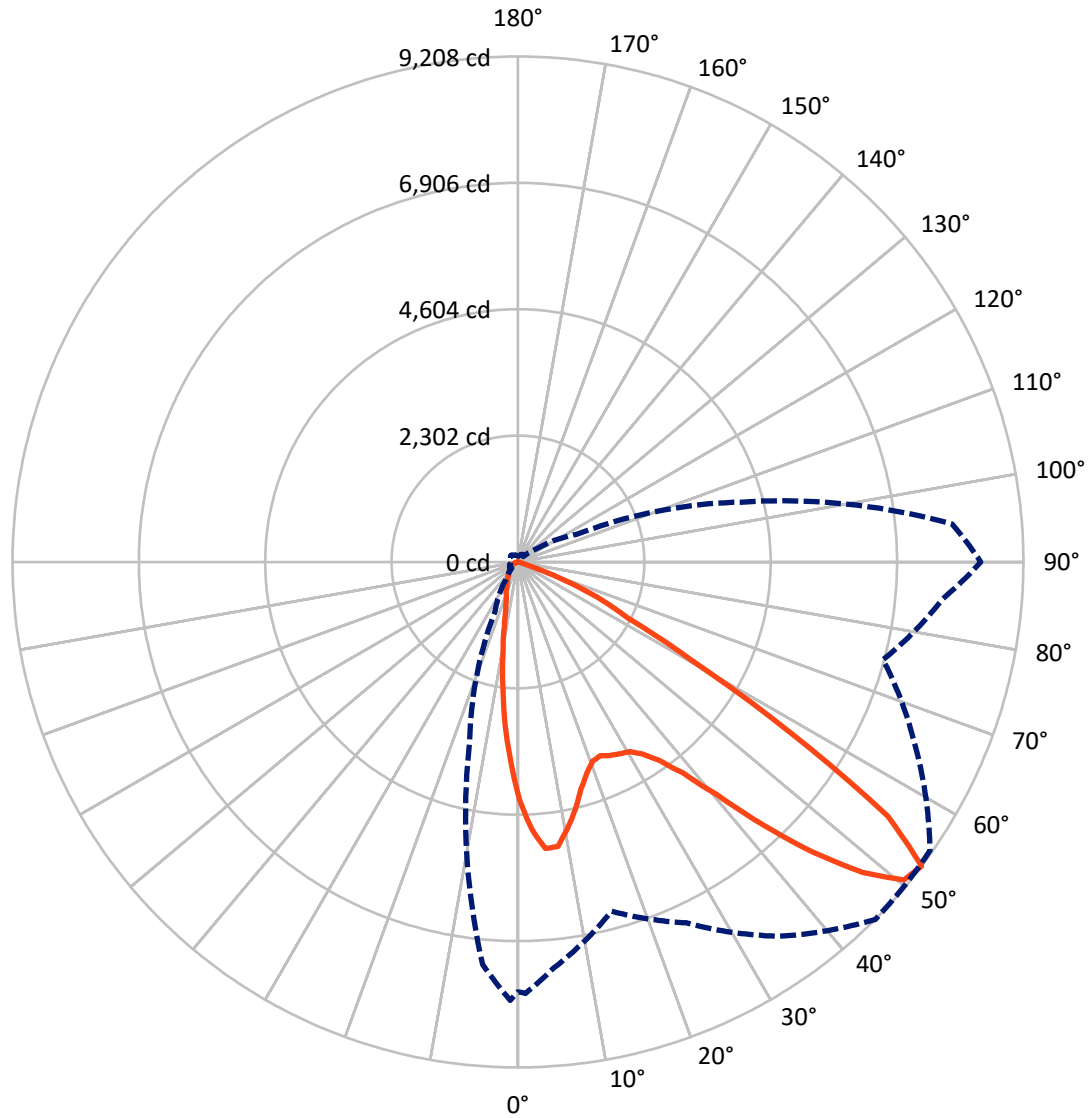
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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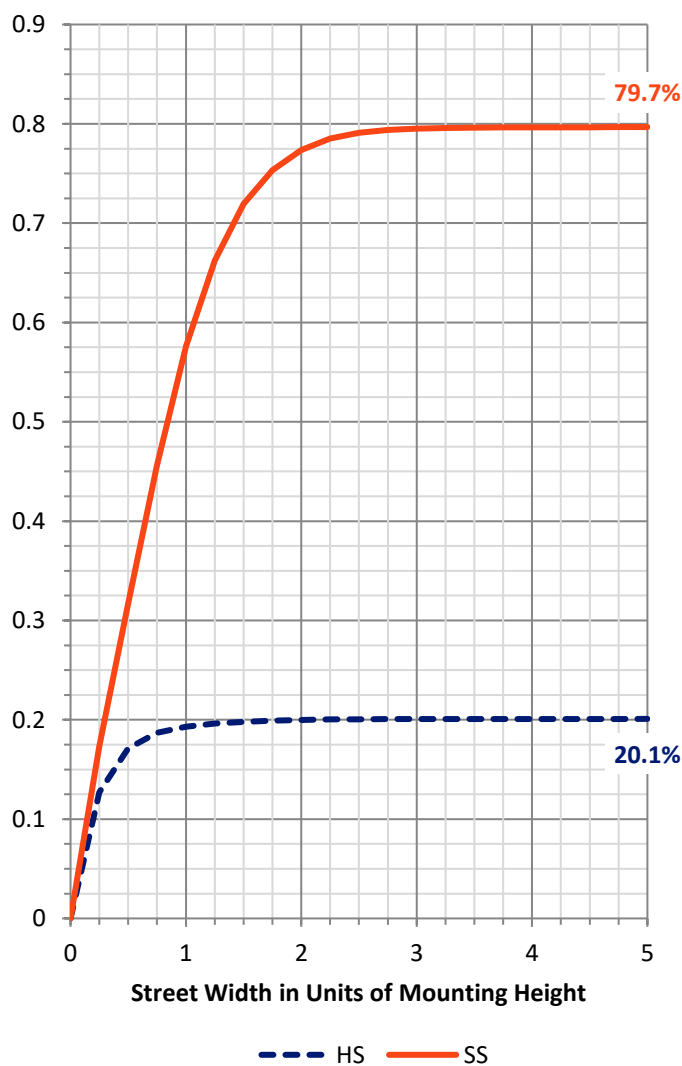
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1745.6	0.0	1745.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	6855.4	0.0	6855.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	8601.0	0.0	8601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.1	3.7
10°-20°	627.5	7.3
20°-30°	954.9	11.1
30°-40°	1427.3	16.6
40°-50°	2032.6	23.6
50°-60°	2185.0	25.4
60°-70°	968.2	11.3
70°-80°	78.3	0.9
80°-90°	9.1	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°	8601.0	100.0
0°-180°	8601.0	100.0

Coefficient of Utilization



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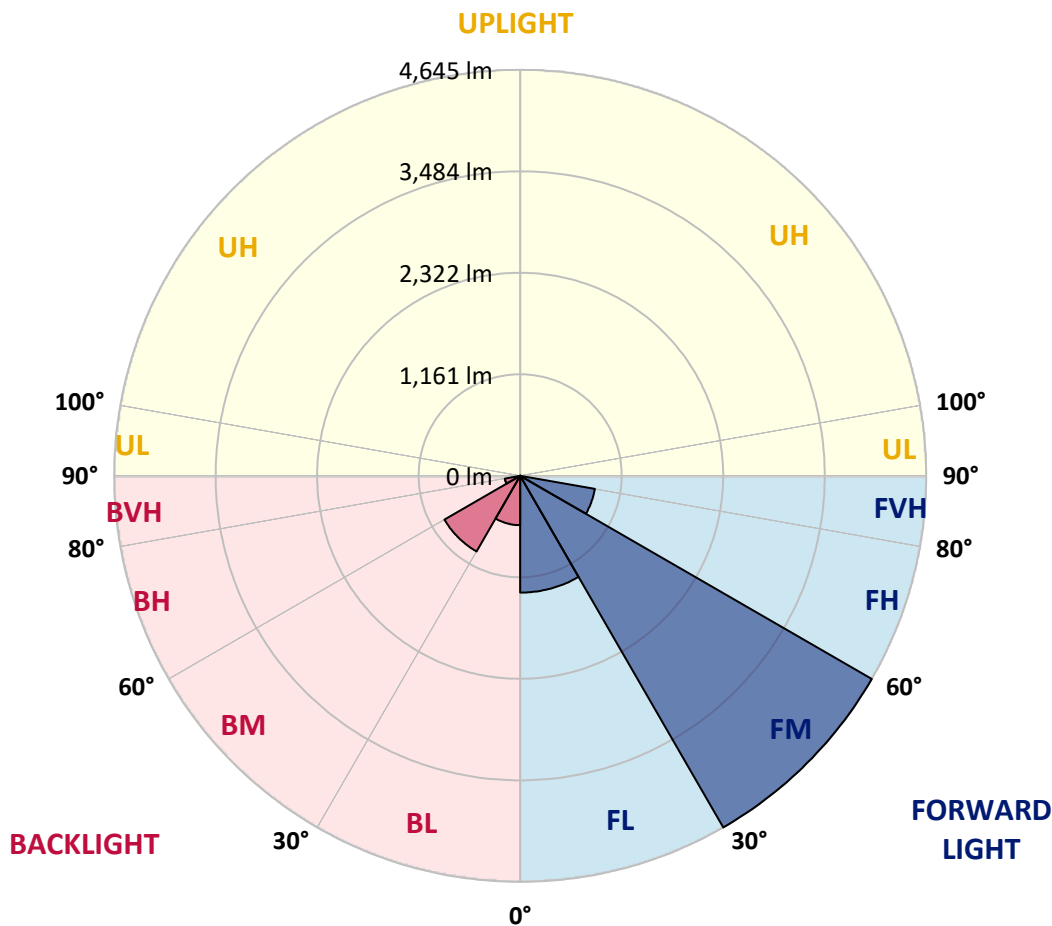
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.9	15.5			
FM (30°-60°)	4644.8	54.0			
FH (60°-80°)	867.9	10.1			G1/1800
FVH (80°-90°)	6.8	0.1			G0/10
BL (0°-30°)	564.6	6.6	B2/1000		
BM (30°-60°)	1000.0	11.6	B2/2500		
BH (60°-80°)	178.6	2.1	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1
2.5°	4614.9	4628.4	4702.8	4795.9	4844.9	4956.6	4878.8	4899.1	4856.8	4707.9	4591.2
5°	4474.4	4472.8	4567.5	4797.6	5015.8	5237.4	5244.2	5125.7	4917.7	4689.3	4362.8
7.5°	4051.5	4117.5	4215.6	4582.7	4987.0	5152.8	5232.3	5093.6	4773.9	4447.4	4093.8
10°	3731.8	3765.6	3931.4	4374.6	4670.7	4892.3	4941.3	4861.8	4616.5	4208.9	3813.0
12.5°	3547.4	3564.3	3758.9	4131.0	4444.0	4608.1	4631.8	4669.0	4493.1	4110.7	3635.4
15°	3549.1	3562.6	3824.8	4136.1	4259.6	4215.6	4293.4	4291.7	4367.9	4092.1	3784.2
17.5°	3804.5	3819.8	4056.6	4210.5	4156.4	4053.2	4048.1	4126.0	4286.7	4323.9	4009.2
20°	4244.4	4279.9	4454.1	4445.7	4141.2	3933.1	3875.6	3934.8	4308.7	4520.1	4462.6
22.5°	4836.5	4885.5	5007.3	4773.9	4210.5	3851.9	3833.3	3948.3	4454.1	4958.3	4976.9
25°	5523.3	5606.2	5665.4	5366.0	4457.5	3992.3	3904.4	4102.3	4650.4	5433.6	5631.5
27.5°	5978.3	6064.6	6051.1	5623.1	4623.3	4029.5	3955.1	4139.5	4821.2	5547.0	5973.3
30°	6333.6	6386.0	6480.8	5761.8	4789.1	4134.4	4007.5	4296.8	4877.1	5743.2	6386.0
32.5°	6748.0	6783.6	6790.3	6007.1	5044.5	4266.4	4169.9	4493.1	5124.0	5931.0	6751.4
35°	7165.9	7218.3	7108.4	6309.9	5201.9	4511.7	4440.6	4833.1	5322.0	6125.5	7154.0
37.5°	7619.2	7646.3	7392.6	6435.1	5426.9	4910.9	4872.0	5200.2	5665.4	6477.4	7600.6
40°	7999.9	8025.2	7695.4	6589.0	5663.7	5469.1	5569.0	5900.5	6132.3	6705.8	7823.9
42.5°	8211.3	8270.5	7796.9	6504.4	6139.0	6101.8	6545.0	6661.8	6673.6	6770.0	8023.6
45°	8268.8	8241.8	7629.4	6573.8	6555.2	7142.2	7544.8	7698.8	7211.6	6888.5	8074.3
47.5°	8003.3	8038.8	7382.4	6512.9	7101.6	7930.5	8451.5	8737.4	7612.5	6785.3	7949.1
50°	7788.4	7742.7	7302.9	6468.9	7248.8	8302.7	9106.2	9170.5	7981.3	6912.1	7812.1
52.5°	7830.7	7859.5	7429.8	6585.6	7252.2	8324.7	9207.7	9163.7	7993.1	6883.4	7763.0
55°	7920.4	7793.5	7375.6	6328.5	6766.7	7710.6	8172.4	8104.8	7377.3	6577.2	7642.9
57.5°	6834.3	7030.6	6781.9	5650.2	5553.7	5809.2	5800.7	6008.8	5503.0	5660.3	6957.8
60°	5547.0	5580.8	5673.8	4833.1	3843.5	3755.5	3633.7	3501.7	3703.0	4839.8	6328.5
62.5°	4878.8	4838.2	5169.7	4396.6	2713.4	2271.9	2251.6	2332.8	2857.2	4616.5	5936.0
65°	3545.7	3596.5	3836.7	3412.1	2036.8	1734.0	1703.5	1943.7	2312.5	3699.7	4530.3
67.5°	2165.3	2263.4	2285.4	2104.4	1382.1	1097.9	1053.9	1272.1	1669.7	2393.7	2655.9
70°	999.8	1118.2	1229.8	1148.6	800.2	451.7	426.3	534.6	842.4	1377.0	1409.2
72.5°	302.8	304.5	426.3	444.9	258.8	101.5	89.7	118.4	285.9	455.1	478.7
75°	22.0	23.7	57.5	66.0	49.1	25.4	27.1	32.1	60.9	101.5	76.1
77.5°	1.7	1.7	1.7	8.5	15.2	16.9	22.0	25.4	32.1	37.2	33.8
80°	1.7	0.0	1.7	6.8	11.8	16.9	20.3	23.7	25.4	28.8	25.4
82.5°	0.0	0.0	0.0	5.1	11.8	16.9	18.6	25.4	28.8	33.8	28.8
85°	0.0	0.0	0.0	5.1	11.8	18.6	16.9	8.5	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°	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1
2.5°	4611.5	4545.5	4394.9	4318.8	4139.5	4114.1	3938.2	3909.4	3850.2	3818.1	3740.3
5°	4219.0	4139.5	3894.2	3687.8	3447.6	3280.1	3151.6	3034.8	2967.2	2904.6	2933.3
7.5°	3899.3	3667.5	3395.2	3050.1	2772.6	2593.3	2397.1	2236.4	2141.6	2077.4	2092.6
10°	3564.3	3413.8	3034.8	2647.5	2312.5	2185.6	2031.7	1908.2	1774.6	1659.5	1605.4
12.5°	3459.5	3236.2	2760.8	2366.6	2112.9	1989.4	1813.5	1671.4	1500.5	1360.1	1311.0
15°	3478.1	3263.2	2686.4	2265.1	1965.7	1752.6	1542.8	1366.9	1179.1	1081.0	1030.2
17.5°	3780.9	3408.7	2735.4	2158.6	1761.0	1465.0	1206.2	982.9	842.4	740.9	719.0
20°	4153.0	3723.3	2840.3	2080.7	1593.5	1165.6	881.4	688.5	571.8	554.9	549.8
22.5°	4697.7	4237.6	3065.3	2028.3	1388.9	908.4	603.9	500.7	468.6	465.2	466.9
25°	5459.0	4882.1	3310.6	1984.3	1234.9	700.3	494.0	424.6	414.5	409.4	417.8
27.5°	5788.9	5271.2	3440.8	1889.6	1094.5	631.0	487.2	421.2	392.5	384.0	389.1
30°	6196.6	5530.0	3645.5	1727.2	888.1	519.3	455.1	458.4	444.9	402.6	389.1
32.5°	6737.9	5853.2	3748.7	1612.2	793.4	429.7	333.3	306.2	341.7	348.5	360.3
35°	7084.7	6181.3	3801.2	1544.5	744.3	367.1	282.5	257.1	248.7	250.4	257.1
37.5°	7729.2	6624.6	3867.1	1473.4	707.1	319.7	255.4	231.8	219.9	219.9	226.7
40°	8114.9	6976.4	3956.8	1434.5	669.9	291.0	231.8	211.5	201.3	201.3	204.7
42.5°	8211.3	7150.7	3926.3	1421.0	627.6	284.2	211.5	196.2	184.4	182.7	181.0
45°	8383.9	7416.2	3931.4	1405.8	583.6	258.8	199.6	182.7	165.8	164.1	162.4
47.5°	8573.3	7607.4	3941.6	1346.6	541.3	216.5	208.1	169.2	148.9	145.5	145.5
50°	8410.9	7759.7	4029.5	1287.4	487.2	175.9	204.7	159.0	131.9	126.9	128.6
52.5°	8431.2	7939.0	4215.6	1204.5	419.5	140.4	165.8	150.6	120.1	111.6	113.3
55°	8106.4	7749.5	4241.0	1116.5	328.2	108.3	126.9	131.9	101.5	98.1	98.1
57.5°	6978.1	6562.0	3742.0	905.0	216.5	89.7	91.3	115.0	88.0	84.6	86.3
60°	5971.6	5267.8	3011.2	597.2	135.3	71.0	66.0	116.7	77.8	76.1	81.2
62.5°	5443.8	4329.0	2283.7	370.5	93.0	54.1	45.7	94.7	67.7	67.7	74.4
65°	3933.1	2908.0	1328.0	194.5	66.0	42.3	33.8	54.1	55.8	57.5	60.9
67.5°	2436.0	1468.4	559.9	94.7	44.0	28.8	22.0	33.8	37.2	37.2	40.6
70°	1202.8	585.3	186.1	54.1	33.8	23.7	15.2	18.6	18.6	16.9	18.6
72.5°	372.2	175.9	47.4	33.8	23.7	15.2	8.5	6.8	3.4	0.0	1.7
75°	42.3	33.8	30.4	23.7	15.2	6.8	1.7	0.0	0.0	0.0	0.0
77.5°	25.4	28.8	28.8	23.7	15.2	5.1	0.0	0.0	0.0	0.0	0.0
80°	20.3	22.0	23.7	22.0	13.5	6.8	0.0	0.0	0.0	0.0	0.0
82.5°	25.4	28.8	32.1	28.8	18.6	8.5	3.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.1	1.7	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°	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1
2.5°	3708.1	3670.9	3723.3	3645.5	3643.8	3645.5	3623.5	3603.2	3635.4	3721.7	3730.1
5°	2830.2	2909.7	2935.0	3017.9	2972.3	2904.6	2918.1	2872.4	2984.1	3033.2	2994.2
7.5°	2060.4	2055.4	2226.2	2236.4	2258.4	2260.1	2256.7	2167.0	2075.7	2096.0	2156.9
10°	1598.6	1512.3	1595.2	1586.8	1640.9	1625.7	1647.7	1551.3	1583.4	1583.4	1622.3
12.5°	1302.6	1211.2	1196.0	1174.0	1196.0	1204.5	1212.9	1194.3	1248.4	1273.8	1300.9
15°	994.7	943.9	930.4	888.1	894.9	918.6	938.9	947.3	930.4	969.3	972.7
17.5°	722.3	720.6	729.1	727.4	720.6	715.6	713.9	691.9	685.1	688.5	702.0
20°	548.1	561.6	590.4	619.1	634.4	615.8	590.4	553.2	537.9	541.3	543.0
22.5°	468.6	488.9	527.8	559.9	575.2	541.3	495.7	463.5	456.7	455.1	453.4
25°	424.6	448.3	477.0	487.2	485.5	465.2	431.4	417.8	414.5	411.1	395.8
27.5°	400.9	409.4	414.5	426.3	431.4	417.8	409.4	389.1	385.7	385.7	375.5
30°	387.4	382.3	389.1	380.6	387.4	377.2	378.9	378.9	370.5	373.9	373.9
32.5°	360.3	362.0	362.0	345.1	350.2	338.3	350.2	360.3	362.0	363.7	377.2
35°	263.9	294.3	309.6	309.6	314.6	306.2	304.5	292.7	277.4	262.2	255.4
37.5°	231.8	243.6	263.9	275.7	284.2	277.4	262.2	243.6	235.1	228.4	221.6
40°	206.4	216.5	230.1	243.6	260.5	252.1	228.4	219.9	209.8	209.8	203.0
42.5°	186.1	191.2	199.6	219.9	238.5	221.6	204.7	197.9	192.8	191.2	189.5
45°	167.5	169.2	177.6	194.5	216.5	199.6	182.7	174.2	175.9	177.6	175.9
47.5°	150.6	153.9	159.0	179.3	192.8	184.4	165.8	160.7	160.7	160.7	162.4
50°	130.3	138.7	148.9	165.8	175.9	170.9	155.6	148.9	145.5	145.5	147.2
52.5°	116.7	123.5	137.0	157.3	170.9	162.4	147.2	137.0	130.3	128.6	131.9
55°	101.5	113.3	135.3	150.6	169.2	160.7	143.8	131.9	120.1	118.4	118.4
57.5°	91.3	110.0	130.3	148.9	164.1	157.3	143.8	128.6	113.3	111.6	111.6
60°	86.3	106.6	126.9	143.8	164.1	153.9	142.1	125.2	108.3	108.3	106.6
62.5°	81.2	99.8	120.1	137.0	157.3	148.9	137.0	120.1	103.2	103.2	99.8
65°	67.7	86.3	99.8	115.0	137.0	128.6	116.7	104.9	91.3	88.0	89.7
67.5°	47.4	59.2	72.7	88.0	101.5	98.1	93.0	84.6	72.7	71.0	69.4
70°	23.7	32.1	44.0	59.2	71.0	67.7	64.3	57.5	50.7	49.1	49.1
72.5°	3.4	10.1	18.6	27.1	37.2	38.9	37.2	35.5	33.8	32.1	33.8
75°	0.0	0.0	0.0	6.8	15.2	18.6	22.0	25.4	25.4	22.0	27.1
77.5°	0.0	0.0	0.0	0.0	1.7	8.5	16.9	22.0	27.1	23.7	32.1
80°	0.0	0.0	0.0	0.0	1.7	10.1	16.9	23.7	27.1	23.7	33.8
82.5°	0.0	0.0	0.0	0.0	1.7	11.8	16.9	22.0	25.4	23.7	30.4
85°	0.0	0.0	0.0	0.0	5.1	10.1	6.8	3.4	1.7	1.7	5.1
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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CATALOG NUMBER: GALN-SA2D-740-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1	4361.1
2.5°	3777.5	3897.6	4026.2	4075.2	4227.5	4342.5	4420.3	4587.8	4613.2	4614.9
5°	3034.8	3095.7	3315.7	3418.9	3645.5	3821.5	4009.2	4279.9	4460.9	4474.4
7.5°	2156.9	2326.0	2419.1	2688.1	2967.2	3242.9	3522.0	3836.7	4046.5	4051.5
10°	1735.6	1845.6	2011.4	2212.7	2447.8	2728.7	3100.8	3466.2	3679.4	3731.8
12.5°	1397.3	1590.2	1779.6	1987.7	2167.0	2378.5	2779.4	3266.6	3442.5	3547.4
15°	1075.9	1251.8	1475.1	1718.7	1921.7	2204.2	2661.0	3217.5	3513.6	3549.1
17.5°	793.4	950.7	1157.1	1387.2	1691.7	2092.6	2681.3	3466.2	3745.3	3804.5
20°	570.1	661.4	823.8	1091.1	1478.5	1962.3	2701.6	3718.3	4142.9	4244.4
22.5°	451.7	488.9	595.5	832.3	1240.0	1825.3	2845.4	4200.4	4689.3	4836.5
25°	392.5	412.8	463.5	656.4	1089.4	1811.8	3075.4	4778.9	5416.7	5523.3
27.5°	378.9	382.3	426.3	602.2	1008.2	1722.1	3163.4	5190.0	5870.1	5978.3
30°	399.2	453.4	456.7	509.2	857.7	1544.5	3209.1	5587.6	6254.1	6333.6
32.5°	345.1	328.2	340.0	394.2	754.5	1441.3	3295.4	5934.4	6692.2	6748.0
35°	240.2	252.1	279.1	341.7	659.7	1333.0	3317.4	6316.7	7108.4	7165.9
37.5°	221.6	228.4	250.4	291.0	580.2	1272.1	3286.9	6595.8	7539.7	7619.2
40°	206.4	214.8	226.7	263.9	521.0	1204.5	3244.6	6847.9	7803.6	7999.9
42.5°	194.5	201.3	211.5	252.1	470.3	1136.8	3185.4	7203.1	8040.5	8211.3
45°	181.0	191.2	203.0	245.3	441.5	1091.1	3141.4	7181.1	8177.5	8268.8
47.5°	167.5	184.4	197.9	228.4	433.1	1069.1	3160.0	7098.2	8065.8	8003.3
50°	153.9	175.9	199.6	189.5	412.8	1025.1	3182.0	7211.6	7800.3	7788.4
52.5°	142.1	167.5	186.1	155.6	367.1	982.9	3395.2	7360.4	7988.0	7830.7
55°	125.2	150.6	148.9	125.2	297.7	950.7	3562.6	7363.8	7861.2	7920.4
57.5°	113.3	133.6	116.7	104.9	219.9	795.1	3290.3	6174.6	6729.4	6834.3
60°	104.9	130.3	88.0	82.9	143.8	573.5	2872.4	4782.3	5349.0	5547.0
62.5°	96.4	123.5	69.4	67.7	99.8	407.7	2361.6	4002.5	4609.8	4878.8
65°	84.6	88.0	55.8	52.4	71.0	219.9	1437.9	2755.7	3445.9	3545.7
67.5°	69.4	67.7	45.7	42.3	47.4	106.6	634.4	1380.4	1997.9	2165.3
70°	55.8	55.8	38.9	33.8	33.8	49.1	165.8	549.8	903.3	999.8
72.5°	40.6	42.3	30.4	27.1	25.4	23.7	27.1	110.0	236.8	302.8
75°	35.5	37.2	30.4	23.7	18.6	15.2	11.8	10.1	13.5	22.0
77.5°	38.9	38.9	32.1	22.0	16.9	11.8	6.8	3.4	3.4	1.7
80°	49.1	50.7	42.3	28.8	20.3	13.5	8.5	3.4	1.7	1.7
82.5°	52.4	57.5	47.4	35.5	25.4	15.2	8.5	1.7	0.0	0.0
85°	13.5	22.0	37.2	32.1	25.4	15.2	8.5	1.7	0.0	0.0
87.5°	0.0	1.7	5.1	5.1	6.8	6.8	5.1	1.7	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)