

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: P527715

Luminaire Tested: **GALN-SA2D-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527715
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-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 7832 lumens
Efficiency: N/A
Efficacy: 62.7 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

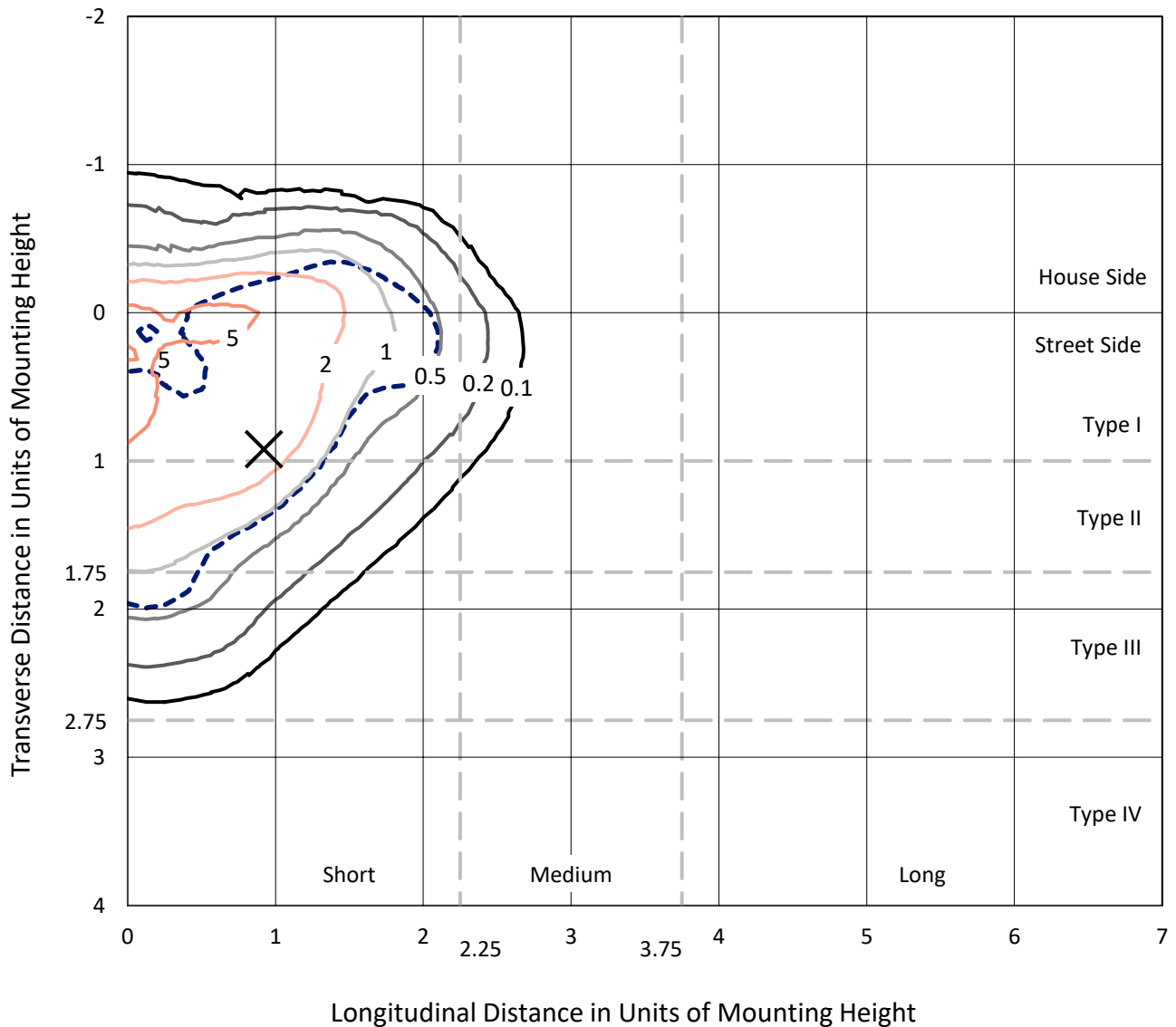




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Iso-Footcandle Lines of Horizontal Illumination

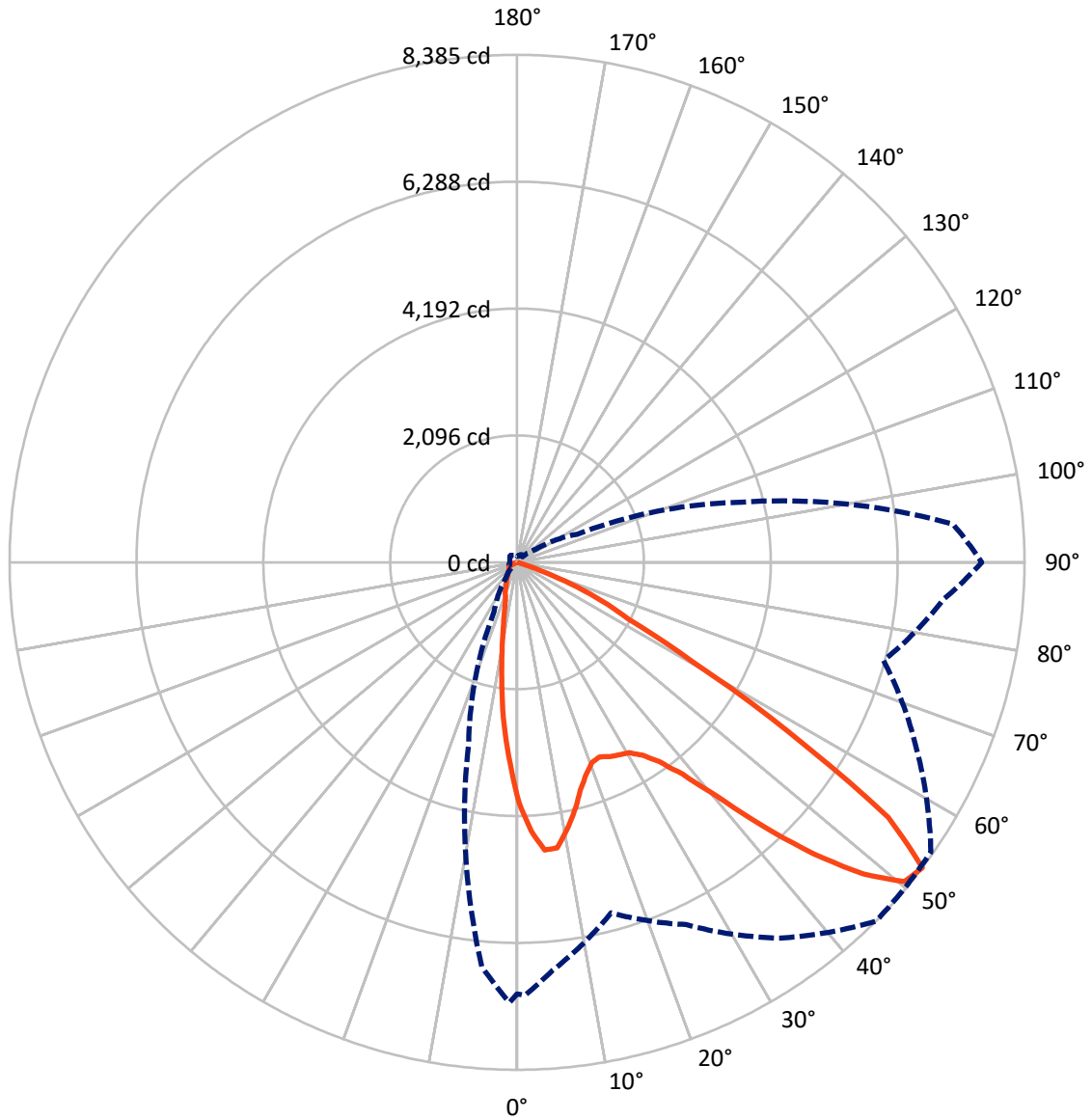
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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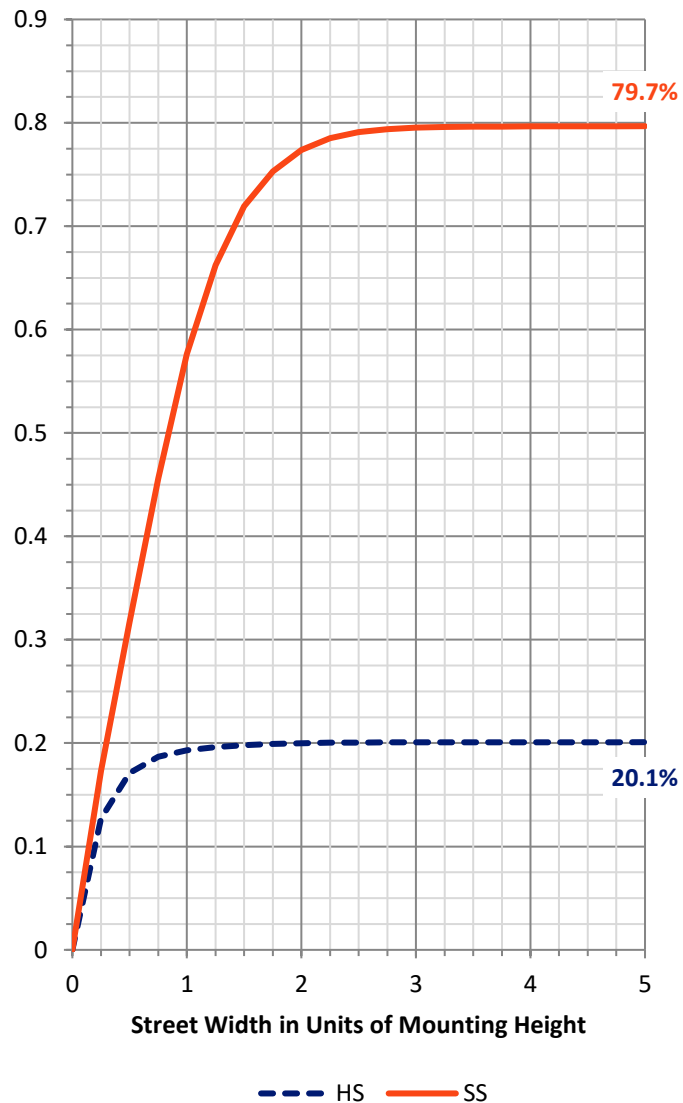
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1589.5	0.0	1589.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	6242.5	0.0	6242.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	7832.0	0.0	7832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	3.7
10°-20°	571.4	7.3
20°-30°	869.6	11.1
30°-40°	1299.7	16.6
40°-50°	1850.9	23.6
50°-60°	1989.6	25.4
60°-70°	881.6	11.3
70°-80°	71.3	0.9
80°-90°	8.3	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°	7832.0	100.0
0°-180°	7832.0	100.0

Coefficient of Utilization



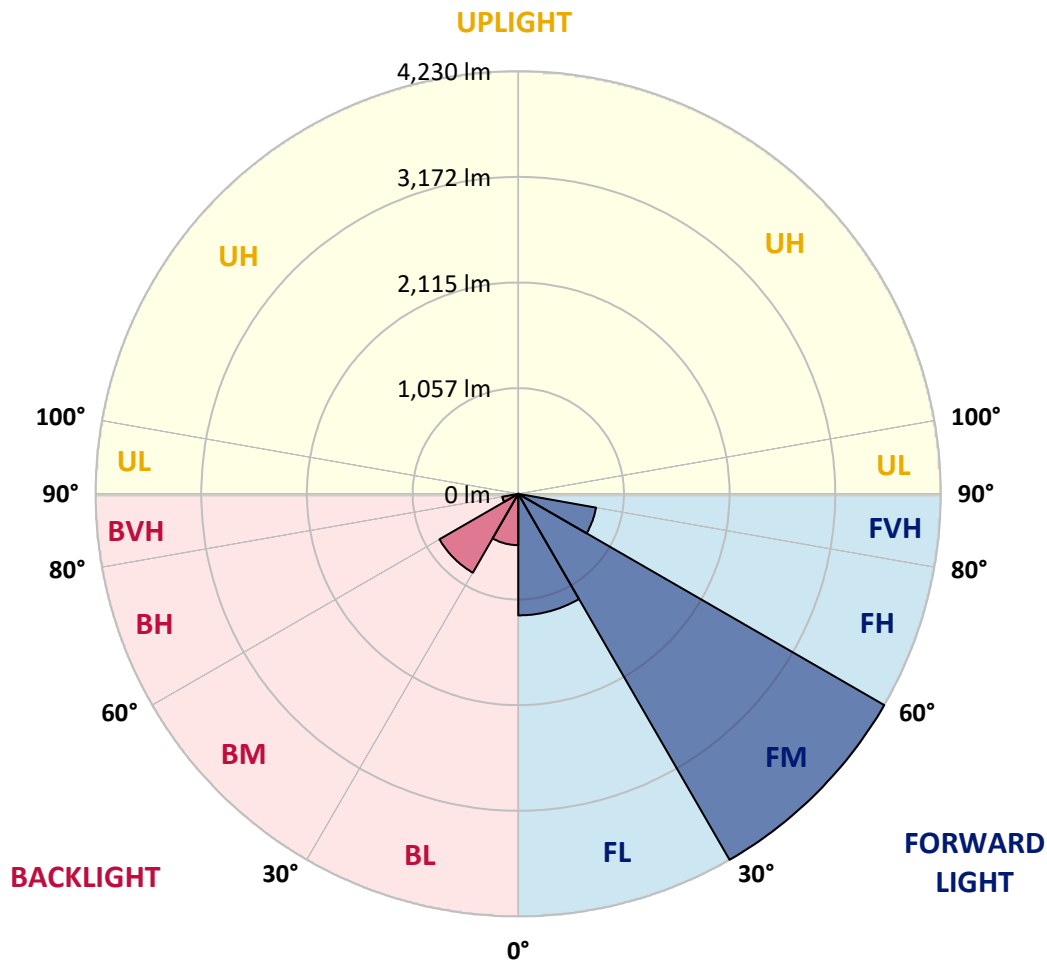
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1216.5	15.5			
FM (30°-60°)	4229.5	54.0			
FH (60°-80°)	790.3	10.1			G1/1800
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	514.1	6.6	B2/1000		
BM (30°-60°)	910.6	11.6	B1/1000		
BH (60°-80°)	162.6	2.1	B1/500		G1/500
BVH (80°-90°)	2.2	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°	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2
2.5°	4202.3	4214.6	4282.4	4367.1	4411.7	4513.4	4442.6	4461.0	4422.5	4287.0	4180.7
5°	4074.4	4072.9	4159.1	4368.6	4567.3	4769.1	4775.3	4667.5	4478.0	4270.0	3972.7
7.5°	3689.3	3749.4	3838.7	4173.0	4541.1	4692.1	4764.5	4638.2	4347.0	4049.7	3727.8
10°	3398.2	3429.0	3579.9	3983.5	4253.1	4454.9	4499.6	4427.2	4203.8	3832.6	3472.1
12.5°	3230.2	3245.7	3422.8	3761.7	4046.7	4196.1	4217.7	4251.5	4091.3	3743.2	3310.4
15°	3231.8	3244.1	3482.9	3766.3	3878.8	3838.7	3909.6	3908.0	3977.3	3726.3	3445.9
17.5°	3464.4	3478.3	3693.9	3834.1	3784.8	3690.8	3686.2	3757.1	3903.4	3937.3	3650.8
20°	3864.9	3897.2	4055.9	4048.2	3770.9	3581.5	3529.1	3583.0	3923.4	4116.0	4063.6
22.5°	4404.0	4448.7	4559.6	4347.0	3834.1	3507.5	3490.6	3595.3	4055.9	4515.0	4531.9
25°	5029.5	5104.9	5158.8	4886.2	4059.0	3635.4	3555.3	3735.5	4234.6	4947.8	5128.0
27.5°	5443.8	5522.4	5510.1	5120.3	4210.0	3669.3	3601.5	3769.4	4390.2	5051.0	5439.2
30°	5767.3	5815.1	5901.3	5246.7	4360.9	3764.8	3649.2	3912.7	4441.0	5229.7	5815.1
32.5°	6144.7	6177.1	6183.2	5470.0	4593.5	3884.9	3797.1	4091.3	4665.9	5400.7	6147.8
35°	6525.2	6572.9	6472.8	5745.7	4736.8	4108.3	4043.6	4401.0	4846.1	5577.8	6514.4
37.5°	6938.0	6962.7	6731.6	5859.7	4941.6	4471.8	4436.4	4735.2	5158.8	5898.2	6921.1
40°	7284.6	7307.7	7007.3	5999.9	5157.3	4980.2	5071.0	5373.0	5584.0	6106.2	7124.4
42.5°	7477.2	7531.1	7099.8	5922.9	5590.2	5556.3	5959.9	6066.2	6076.9	6164.7	7306.2
45°	7529.5	7504.9	6947.3	5986.0	5969.1	6503.6	6870.2	7010.4	6566.8	6272.6	7352.4
47.5°	7287.7	7320.0	6722.4	5930.6	6466.7	7221.5	7695.9	7956.2	6931.9	6178.6	7238.4
50°	7092.1	7050.5	6650.0	5890.5	6600.7	7560.4	8292.1	8350.6	7267.7	6294.1	7113.6
52.5°	7130.6	7156.8	6765.5	5996.8	6603.8	7580.4	8384.5	8344.4	7278.5	6267.9	7069.0
55°	7212.2	7096.7	6716.2	5762.7	6161.7	7021.2	7441.7	7380.1	6717.7	5989.1	6959.6
57.5°	6223.3	6402.0	6175.5	5145.0	5057.2	5289.8	5282.1	5471.6	5011.0	5154.2	6335.7
60°	5051.0	5081.8	5166.5	4401.0	3499.8	3419.7	3308.8	3188.7	3372.0	4407.1	5762.7
62.5°	4442.6	4405.6	4707.5	4003.5	2470.8	2068.8	2050.3	2124.2	2601.8	4203.8	5405.3
65°	3228.7	3274.9	3493.7	3107.0	1854.7	1578.9	1551.2	1769.9	2105.7	3368.9	4125.2
67.5°	1971.7	2061.1	2081.1	1916.3	1258.5	999.7	959.7	1158.4	1520.4	2179.7	2418.5
70°	910.4	1018.2	1119.9	1045.9	728.6	411.3	388.2	486.8	767.1	1253.9	1283.2
72.5°	275.7	277.3	388.2	405.1	235.7	92.4	81.6	107.8	260.3	414.4	435.9
75°	20.0	21.6	52.4	60.1	44.7	23.1	24.6	29.3	55.5	92.4	69.3
77.5°	1.5	1.5	1.5	7.7	13.9	15.4	20.0	23.1	29.3	33.9	30.8
80°	1.5	0.0	1.5	6.2	10.8	15.4	18.5	21.6	23.1	26.2	23.1
82.5°	0.0	0.0	0.0	4.6	10.8	15.4	16.9	23.1	26.2	30.8	26.2
85°	0.0	0.0	0.0	4.6	10.8	16.9	15.4	7.7	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°	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2
2.5°	4199.2	4139.1	4002.0	3932.7	3769.4	3746.3	3586.1	3559.9	3506.0	3476.7	3405.9
5°	3841.8	3769.4	3546.0	3358.1	3139.4	2986.9	2869.8	2763.5	2701.9	2644.9	2671.1
7.5°	3550.7	3339.6	3091.6	2777.4	2524.7	2361.5	2182.8	2036.4	1950.2	1891.6	1905.5
10°	3245.7	3108.6	2763.5	2410.7	2105.7	1990.2	1850.0	1737.6	1615.9	1511.1	1461.9
12.5°	3150.1	2946.8	2514.0	2155.0	1924.0	1811.5	1651.3	1521.9	1366.3	1238.5	1193.8
15°	3167.1	2971.5	2446.2	2062.6	1790.0	1595.9	1404.9	1244.7	1073.7	984.3	938.1
17.5°	3442.8	3103.9	2490.8	1965.6	1603.6	1334.0	1098.3	895.0	767.1	674.7	654.7
20°	3781.7	3390.5	2586.4	1894.7	1451.1	1061.3	802.6	626.9	520.7	505.3	500.6
22.5°	4277.7	3858.7	2791.2	1847.0	1264.7	827.2	549.9	456.0	426.7	423.6	425.2
25°	4970.9	4445.6	3014.6	1806.9	1124.5	637.7	449.8	386.6	377.4	372.8	380.5
27.5°	5271.3	4799.9	3133.2	1720.6	996.6	574.6	443.6	383.6	357.4	349.7	354.3
30°	5642.5	5035.6	3319.6	1572.8	808.7	472.9	414.4	417.5	405.1	366.6	354.3
32.5°	6135.5	5329.8	3413.6	1468.0	722.5	391.3	303.5	278.8	311.2	317.3	328.1
35°	6451.3	5628.7	3461.3	1406.4	677.8	334.3	257.2	234.1	226.4	228.0	234.1
37.5°	7038.2	6032.3	3521.4	1341.7	643.9	291.1	232.6	211.0	200.3	200.3	206.4
40°	7389.4	6352.7	3603.0	1306.3	610.0	265.0	211.0	192.6	183.3	183.3	186.4
42.5°	7477.2	6511.3	3575.3	1293.9	571.5	258.8	192.6	178.7	167.9	166.4	164.8
45°	7634.3	6753.2	3579.9	1280.1	531.4	235.7	181.8	166.4	151.0	149.4	147.9
47.5°	7806.8	6927.2	3589.2	1226.2	492.9	197.2	189.5	154.0	135.6	132.5	132.5
50°	7658.9	7065.9	3669.3	1172.3	443.6	160.2	186.4	144.8	120.2	115.5	117.1
52.5°	7677.4	7229.2	3838.7	1096.8	382.0	127.9	151.0	137.1	109.4	101.7	103.2
55°	7381.7	7056.6	3861.8	1016.7	298.8	98.6	115.5	120.2	92.4	89.3	89.3
57.5°	6354.2	5975.3	3407.4	824.1	197.2	81.6	83.2	104.7	80.1	77.0	78.6
60°	5437.7	4796.9	2741.9	543.8	123.2	64.7	60.1	106.3	70.9	69.3	73.9
62.5°	4957.1	3941.9	2079.6	337.4	84.7	49.3	41.6	86.3	61.6	61.6	67.8
65°	3581.5	2648.0	1209.2	177.1	60.1	38.5	30.8	49.3	50.8	52.4	55.5
67.5°	2218.2	1337.1	509.9	86.3	40.1	26.2	20.0	30.8	33.9	33.9	37.0
70°	1095.2	533.0	169.4	49.3	30.8	21.6	13.9	16.9	16.9	15.4	16.9
72.5°	338.9	160.2	43.1	30.8	21.6	13.9	7.7	6.2	3.1	0.0	1.5
75°	38.5	30.8	27.7	21.6	13.9	6.2	1.5	0.0	0.0	0.0	0.0
77.5°	23.1	26.2	26.2	21.6	13.9	4.6	0.0	0.0	0.0	0.0	0.0
80°	18.5	20.0	21.6	20.0	12.3	6.2	0.0	0.0	0.0	0.0	0.0
82.5°	23.1	26.2	29.3	26.2	16.9	7.7	3.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.6	1.5	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°	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2
2.5°	3376.6	3342.7	3390.5	3319.6	3318.1	3319.6	3299.6	3281.1	3310.4	3388.9	3396.6
5°	2577.1	2649.5	2672.6	2748.1	2706.5	2644.9	2657.2	2615.6	2717.3	2762.0	2726.5
7.5°	1876.2	1871.6	2027.2	2036.4	2056.5	2058.0	2054.9	1973.3	1890.1	1908.6	1964.0
10°	1455.7	1377.1	1452.6	1444.9	1494.2	1480.3	1500.4	1412.6	1441.8	1441.8	1477.3
12.5°	1186.1	1102.9	1089.1	1069.0	1089.1	1096.8	1104.5	1087.5	1136.8	1159.9	1184.6
15°	905.8	859.6	847.2	808.7	814.9	836.4	854.9	862.6	847.2	882.7	885.7
17.5°	657.8	656.2	663.9	662.4	656.2	651.6	650.1	630.0	623.9	626.9	639.3
20°	499.1	511.4	537.6	563.8	577.7	560.7	537.6	503.7	489.9	492.9	494.5
22.5°	426.7	445.2	480.6	509.9	523.7	492.9	451.3	422.1	415.9	414.4	412.8
25°	386.6	408.2	434.4	443.6	442.1	423.6	392.8	380.5	377.4	374.3	360.5
27.5°	365.1	372.8	377.4	388.2	392.8	380.5	372.8	354.3	351.2	351.2	342.0
30°	352.8	348.1	354.3	346.6	352.8	343.5	345.1	345.1	337.4	340.4	340.4
32.5°	328.1	329.6	329.6	314.2	318.9	308.1	318.9	328.1	329.6	331.2	343.5
35°	240.3	268.0	281.9	281.9	286.5	278.8	277.3	266.5	252.6	238.8	232.6
37.5°	211.0	221.8	240.3	251.1	258.8	252.6	238.8	221.8	214.1	208.0	201.8
40°	187.9	197.2	209.5	221.8	237.2	229.5	208.0	200.3	191.0	191.0	184.8
42.5°	169.4	174.1	181.8	200.3	217.2	201.8	186.4	180.2	175.6	174.1	172.5
45°	152.5	154.0	161.7	177.1	197.2	181.8	166.4	158.7	160.2	161.7	160.2
47.5°	137.1	140.2	144.8	163.3	175.6	167.9	151.0	146.3	146.3	146.3	147.9
50°	118.6	126.3	135.6	151.0	160.2	155.6	141.7	135.6	132.5	132.5	134.0
52.5°	106.3	112.5	124.8	143.3	155.6	147.9	134.0	124.8	118.6	117.1	120.2
55°	92.4	103.2	123.2	137.1	154.0	146.3	130.9	120.2	109.4	107.8	107.8
57.5°	83.2	100.1	118.6	135.6	149.4	143.3	130.9	117.1	103.2	101.7	101.7
60°	78.6	97.0	115.5	130.9	149.4	140.2	129.4	114.0	98.6	98.6	97.0
62.5°	73.9	90.9	109.4	124.8	143.3	135.6	124.8	109.4	94.0	94.0	90.9
65°	61.6	78.6	90.9	104.7	124.8	117.1	106.3	95.5	83.2	80.1	81.6
67.5°	43.1	53.9	66.2	80.1	92.4	89.3	84.7	77.0	66.2	64.7	63.2
70°	21.6	29.3	40.1	53.9	64.7	61.6	58.5	52.4	46.2	44.7	44.7
72.5°	3.1	9.2	16.9	24.6	33.9	35.4	33.9	32.3	30.8	29.3	30.8
75°	0.0	0.0	0.0	6.2	13.9	16.9	20.0	23.1	23.1	20.0	24.6
77.5°	0.0	0.0	0.0	0.0	1.5	7.7	15.4	20.0	24.6	21.6	29.3
80°	0.0	0.0	0.0	0.0	1.5	9.2	15.4	21.6	24.6	21.6	30.8
82.5°	0.0	0.0	0.0	0.0	1.5	10.8	15.4	20.0	23.1	21.6	27.7
85°	0.0	0.0	0.0	0.0	4.6	9.2	6.2	3.1	1.5	1.5	4.6
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-730-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2
2.5°	3439.7	3549.1	3666.2	3710.9	3849.5	3954.2	4025.1	4177.6	4200.7	4202.3
5°	2763.5	2819.0	3019.2	3113.2	3319.6	3479.8	3650.8	3897.2	4062.1	4074.4
7.5°	1964.0	2118.1	2202.8	2447.7	2701.9	2953.0	3207.1	3493.7	3684.7	3689.3
10°	1580.5	1680.6	1831.6	2014.9	2229.0	2484.7	2823.6	3156.3	3350.4	3398.2
12.5°	1272.4	1448.0	1620.5	1810.0	1973.3	2165.8	2530.9	2974.5	3134.7	3230.2
15°	979.7	1139.9	1343.2	1565.1	1749.9	2007.2	2423.1	2929.9	3199.4	3231.8
17.5°	722.5	865.7	1053.6	1263.1	1540.4	1905.5	2441.6	3156.3	3410.5	3464.4
20°	519.1	602.3	750.2	993.6	1346.3	1786.9	2460.0	3385.8	3772.5	3864.9
22.5°	411.3	445.2	542.2	757.9	1129.1	1662.1	2591.0	3824.8	4270.0	4404.0
25°	357.4	375.9	422.1	597.7	992.0	1649.8	2800.5	4351.7	4932.4	5029.5
27.5°	345.1	348.1	388.2	548.4	918.1	1568.1	2880.6	4726.0	5345.2	5443.8
30°	363.5	412.8	415.9	463.7	781.0	1406.4	2922.2	5088.0	5694.9	5767.3
32.5°	314.2	298.8	309.6	358.9	687.0	1312.4	3000.7	5403.8	6093.9	6144.7
35°	218.7	229.5	254.2	311.2	600.8	1213.8	3020.8	5751.9	6472.8	6525.2
37.5°	201.8	208.0	228.0	265.0	528.4	1158.4	2993.0	6006.1	6865.6	6938.0
40°	187.9	195.6	206.4	240.3	474.4	1096.8	2954.5	6235.6	7105.9	7284.6
42.5°	177.1	183.3	192.6	229.5	428.2	1035.2	2900.6	6559.1	7321.6	7477.2
45°	164.8	174.1	184.8	223.4	402.0	993.6	2860.5	6539.1	7446.4	7529.5
47.5°	152.5	167.9	180.2	208.0	394.3	973.5	2877.5	6463.6	7344.7	7287.7
50°	140.2	160.2	181.8	172.5	375.9	933.5	2897.5	6566.8	7102.9	7092.1
52.5°	129.4	152.5	169.4	141.7	334.3	895.0	3091.6	6702.3	7273.8	7130.6
55°	114.0	137.1	135.6	114.0	271.1	865.7	3244.1	6705.4	7158.3	7212.2
57.5°	103.2	121.7	106.3	95.5	200.3	724.0	2996.1	5622.5	6127.8	6223.3
60°	95.5	118.6	80.1	75.5	130.9	522.2	2615.6	4354.8	4870.8	5051.0
62.5°	87.8	112.5	63.2	61.6	90.9	371.2	2150.4	3644.6	4197.6	4442.6
65°	77.0	80.1	50.8	47.8	64.7	200.3	1309.4	2509.3	3137.8	3228.7
67.5°	63.2	61.6	41.6	38.5	43.1	97.0	577.7	1257.0	1819.2	1971.7
70°	50.8	50.8	35.4	30.8	30.8	44.7	151.0	500.6	822.6	910.4
72.5°	37.0	38.5	27.7	24.6	23.1	21.6	24.6	100.1	215.7	275.7
75°	32.3	33.9	27.7	21.6	16.9	13.9	10.8	9.2	12.3	20.0
77.5°	35.4	35.4	29.3	20.0	15.4	10.8	6.2	3.1	3.1	1.5
80°	44.7	46.2	38.5	26.2	18.5	12.3	7.7	3.1	1.5	1.5
82.5°	47.8	52.4	43.1	32.3	23.1	13.9	7.7	1.5	0.0	0.0
85°	12.3	20.0	33.9	29.3	23.1	13.9	7.7	1.5	0.0	0.0
87.5°	0.0	1.5	4.6	4.6	6.2	6.2	4.6	1.5	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)