

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: P451624

Luminaire Tested: **GALN-SA2C-730-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-730-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11099 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

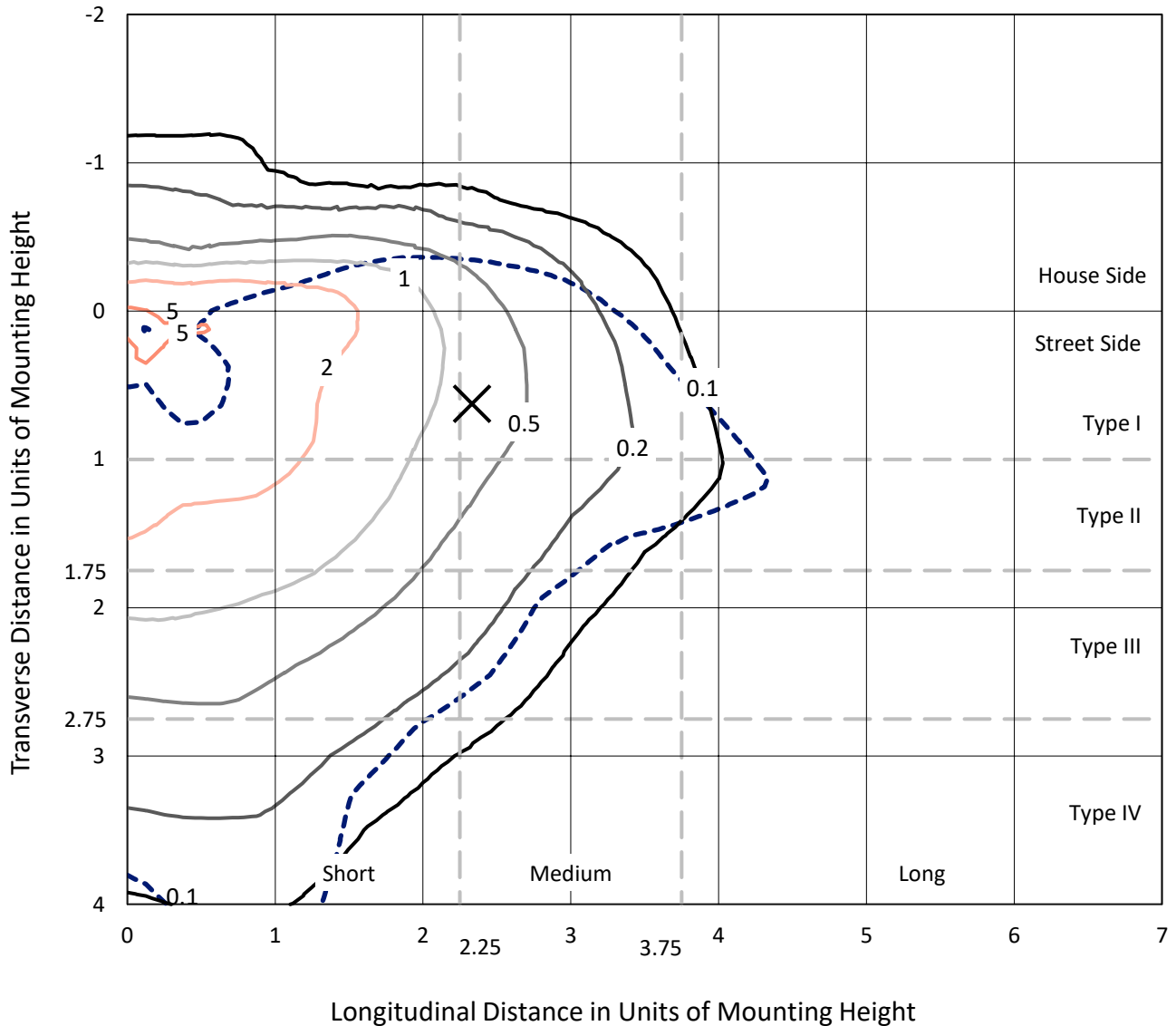
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

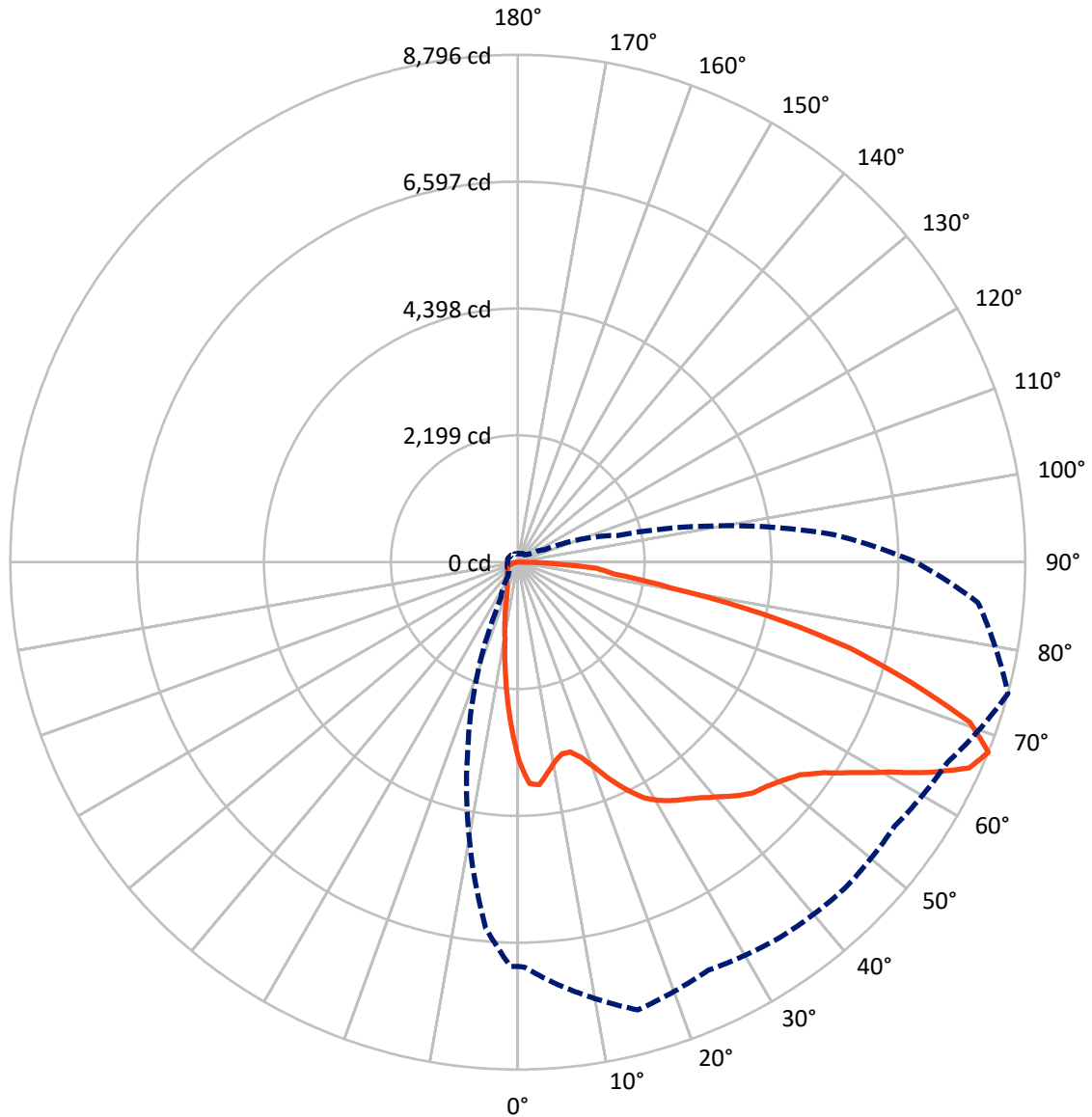
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1876.0	0.0	1876.0
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	9223.0	0.0	9223.0
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	11099.0	0.0	11099.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.0	2.4
10°-20°	548.5	4.9
20°-30°	789.3	7.1
30°-40°	1136.8	10.2
40°-50°	1596.9	14.4
50°-60°	2227.2	20.1
60°-70°	2648.0	23.9
70°-80°	1559.5	14.1
80°-90°	329.8	3.0
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°	11099.0	100.0
0°-180°	11099.0	100.0

**Coefficient of Utilization**



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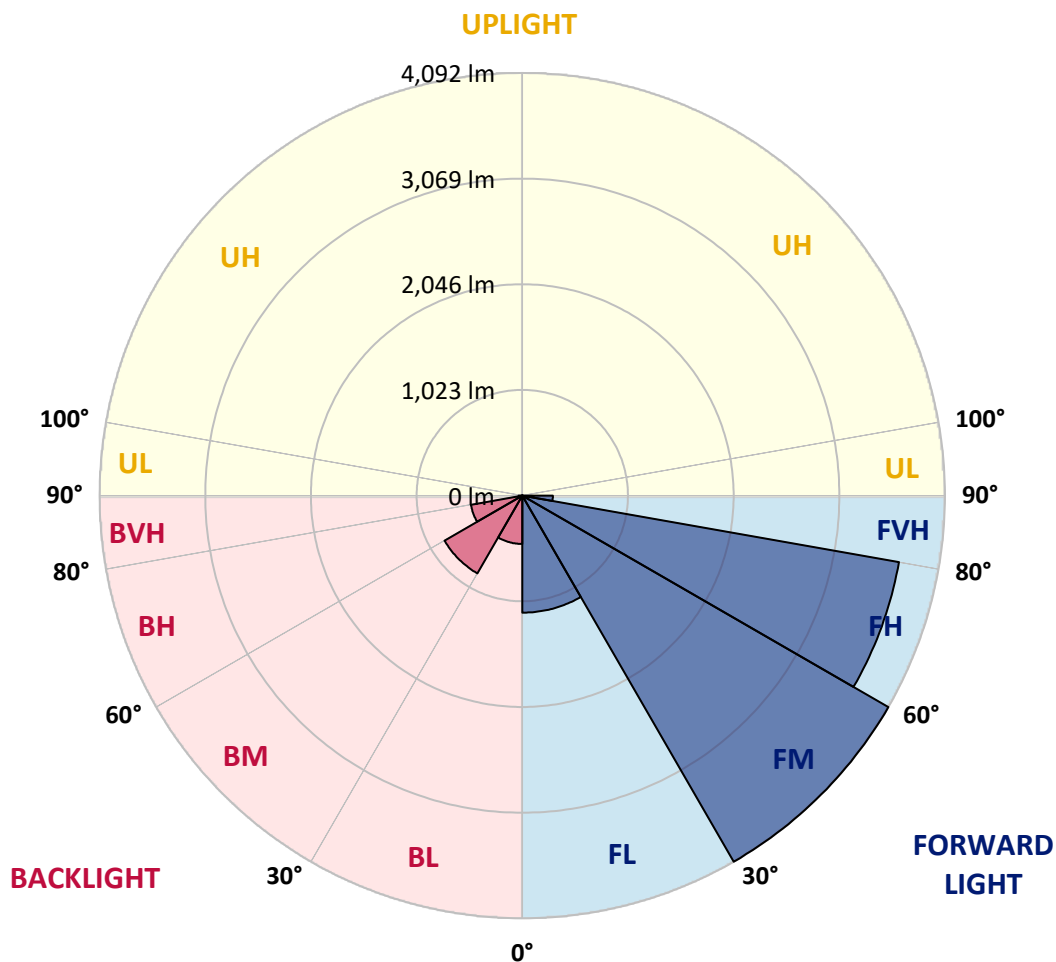
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1132.9	10.2			
FM	(30°-60°)	4091.8	36.9			
FH	(60°-80°)	3702.7	33.4			G2/5000
FVH	(80°-90°)	295.7	2.7			G3/500
BL	(0°-30°)	467.9	4.2	B1/500		
BM	(30°-60°)	869.1	7.8	B1/1000		
BH	(60°-80°)	504.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	34.1	0.3			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6
2.5°	3738.8	3743.7	3775.8	3869.0	3933.1	3956.6	3972.9	3942.3	3912.4	3839.8	3730.2
5°	3727.4	3756.6	3839.8	4049.1	4214.2	4285.4	4306.7	4214.9	4063.3	3876.8	3652.6
7.5°	3509.6	3548.7	3676.8	4027.7	4318.8	4485.4	4463.3	4297.5	4024.2	3691.8	3378.6
10°	3251.2	3294.6	3449.1	3873.3	4248.4	4477.5	4477.5	4275.4	3912.4	3517.4	3156.6
12.5°	3046.2	3091.8	3268.3	3714.6	4101.7	4318.8	4355.1	4181.5	3832.0	3407.1	3010.7
15°	2978.6	3022.8	3212.8	3618.5	3946.6	4079.0	4091.1	4034.1	3792.9	3414.9	3004.2
17.5°	3062.6	3119.6	3311.7	3646.9	3804.2	3812.1	3821.3	3866.2	3797.1	3558.0	3133.8
20°	3305.3	3366.5	3567.2	3738.8	3679.7	3598.6	3603.5	3718.8	3847.7	3794.3	3443.4
22.5°	3655.5	3708.9	3914.6	3900.3	3627.0	3459.8	3424.9	3585.7	3922.4	4088.9	3772.9
25°	4033.4	4096.1	4332.4	4140.2	3642.0	3377.2	3355.1	3507.4	4000.0	4364.4	4153.7
27.5°	4466.2	4527.4	4713.8	4382.2	3720.3	3370.8	3344.5	3500.3	4069.7	4619.2	4517.4
30°	4787.9	4844.1	4970.8	4585.7	3816.3	3413.5	3380.8	3556.6	4129.5	4793.6	4871.9
32.5°	5040.5	5098.9	5167.9	4712.4	3943.0	3491.1	3430.6	3659.0	4207.8	4926.7	5134.5
35°	5303.9	5372.9	5367.9	4824.9	4061.2	3580.8	3521.7	3807.1	4330.9	5042.7	5467.6
37.5°	5637.7	5665.4	5629.9	4925.9	4202.8	3742.3	3709.6	4027.0	4506.0	5182.9	5856.9
40°	5976.5	6032.0	5849.1	5048.4	4375.1	4046.2	4042.7	4352.3	4713.8	5347.3	6234.1
42.5°	6266.9	6313.8	6054.0	5155.1	4583.6	4417.0	4444.1	4788.6	4986.4	5538.0	6537.3
45°	6485.4	6527.4	6243.4	5258.3	4858.3	4845.5	5004.9	5256.2	5330.2	5709.6	6715.3
47.5°	6671.1	6711.7	6375.0	5414.9	5197.8	5357.3	5634.8	5743.7	5624.2	5807.8	6914.5
50°	6827.7	6839.8	6465.4	5601.4	5619.2	5984.3	6253.3	6323.8	5914.5	5948.7	7087.5
52.5°	6990.7	6975.0	6621.3	5836.3	6074.7	6579.3	6775.0	6848.3	6192.8	6122.4	7339.4
55°	7355.8	7370.8	6970.8	6132.3	6535.2	7163.6	7421.3	7350.8	6501.0	6441.9	7659.7
57.5°	7797.1	7784.3	7462.6	6595.7	7004.2	7707.4	7899.6	7786.4	6912.4	6881.1	7984.3
60°	7968.6	7985.7	7874.0	7093.9	7466.8	8183.6	8380.0	8204.2	7405.6	7391.4	8229.1
62.5°	7796.4	7892.5	7967.9	7537.3	7861.2	8533.7	8728.8	8528.1	7920.2	8023.4	8400.7
65°	7453.3	7474.0	7730.9	7913.1	8051.2	8591.4	8693.2	8586.4	8350.1	8599.2	8392.8
67.5°	7007.8	7025.6	7326.6	8036.2	7806.3	7936.6	8007.8	7976.5	8217.0	8796.4	8006.3
70°	6583.6	6569.3	6887.5	7722.4	6795.7	6597.8	6656.9	6558.7	7090.3	8314.5	7248.3
72.5°	5758.0	5809.2	6150.8	6849.8	5380.7	5059.0	5187.9	4933.8	5453.3	7120.9	5883.2
75°	4510.3	4522.4	5092.5	5748.7	4059.0	3551.6	3726.0	3619.9	4177.2	5940.2	4062.6
77.5°	3123.1	3096.1	3708.9	4390.7	2894.6	2600.0	2602.8	2552.3	2916.7	4373.6	2760.1
80°	1983.6	1942.3	2321.7	2712.4	1989.3	2128.1	2058.3	2056.2	1898.9	2698.2	1669.0
82.5°	1071.9	1117.4	1466.9	1700.3	1427.0	1644.8	1507.5	1463.3	1303.2	1689.0	1067.6
85°	488.3	531.0	782.2	1156.6	1084.0	1096.1	732.4	864.1	1078.3	1371.5	570.1
87.5°	47.7	61.2	161.6	545.9	370.1	291.8	108.9	210.0	271.2	487.5	45.6
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°	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6
2.5°	3685.4	3648.4	3522.4	3418.5	3308.2	3224.2	3114.6	3041.3	2990.7	2914.6	2905.3
5°	3516.0	3425.6	3206.4	2982.9	2790.0	2644.8	2497.5	2362.3	2282.5	2257.6	2225.6
7.5°	3230.6	3078.3	2796.4	2540.2	2318.8	2102.5	1935.9	1817.8	1738.8	1692.5	1637.0
10°	2995.7	2819.2	2476.1	2162.3	1980.1	1845.5	1698.9	1572.2	1474.7	1391.4	1345.9
12.5°	2837.7	2638.4	2252.7	1997.9	1856.9	1713.9	1542.3	1400.0	1256.2	1161.6	1121.0
15°	2790.0	2579.3	2183.6	1916.0	1713.9	1526.7	1334.5	1148.7	1006.4	916.7	886.8
17.5°	2906.7	2651.9	2182.9	1807.1	1545.9	1322.4	1076.1	901.8	755.9	689.0	667.6
20°	3124.5	2791.4	2189.3	1699.6	1363.7	1049.1	782.9	639.9	570.1	541.6	531.0
22.5°	3428.4	3004.2	2208.5	1593.6	1164.4	805.7	586.5	513.9	489.0	484.0	481.8
25°	3802.8	3267.6	2273.3	1498.2	996.4	614.9	490.4	457.6	443.4	438.4	437.7
27.5°	4147.3	3607.8	2351.6	1416.4	834.2	530.2	443.4	415.7	401.4	400.7	402.1
30°	4458.3	3892.5	2417.1	1324.5	711.0	471.2	412.8	385.1	371.5	370.8	375.1
32.5°	4727.4	4126.7	2465.5	1234.2	642.7	434.9	385.1	355.2	343.8	341.6	343.8
35°	5014.9	4360.1	2443.4	1163.7	603.6	405.0	364.4	335.2	321.7	315.3	315.3
37.5°	5343.0	4600.7	2405.7	1105.3	585.8	380.1	346.6	318.1	304.6	298.2	297.5
40°	5701.0	4841.2	2353.7	1053.4	568.0	365.1	334.5	304.6	288.3	281.8	280.4
42.5°	6017.0	5046.9	2311.0	1019.2	538.8	368.0	323.8	294.7	274.0	265.5	264.8
45°	6291.8	5254.1	2303.2	999.3	514.6	363.7	321.0	286.8	262.6	253.4	252.0
47.5°	6506.7	5469.7	2348.0	987.9	488.3	340.9	339.5	281.8	252.7	242.7	241.3
50°	6768.6	5775.8	2450.5	964.4	464.1	319.6	358.7	281.1	244.8	232.0	228.5
52.5°	7117.4	6174.3	2589.3	922.4	429.2	299.6	342.3	281.1	235.6	222.8	218.5
55°	7644.8	6682.5	2725.2	863.3	380.1	273.3	308.9	272.6	222.1	210.7	207.8
57.5°	7994.2	7054.0	2812.1	781.5	318.9	254.1	266.2	259.1	208.5	196.4	196.4
60°	8012.0	7153.7	2770.8	678.3	280.4	236.3	231.3	261.2	196.4	183.6	182.2
62.5°	7807.1	6909.6	2555.9	585.8	259.8	217.1	209.3	229.2	184.3	171.5	169.4
65°	7486.8	6286.8	2182.9	541.6	248.4	200.0	188.6	187.9	171.5	159.4	156.6
67.5°	6898.2	5493.9	1793.6	516.0	242.7	180.8	170.1	166.5	156.6	146.6	145.2
70°	6030.6	4601.4	1438.4	505.3	239.9	160.9	152.3	148.0	139.5	131.7	131.0
72.5°	4691.8	3732.4	1187.2	498.2	238.4	142.3	133.1	127.4	122.4	115.3	115.3
75°	3370.1	2745.9	906.0	449.1	220.6	122.4	112.5	108.9	101.8	96.1	97.5
77.5°	2124.5	1849.1	596.4	330.2	170.8	98.2	89.7	87.5	81.8	74.0	79.0
80°	1434.9	1300.3	348.0	207.8	107.5	71.9	69.0	68.3	61.9	53.4	54.1
82.5°	976.5	958.0	180.8	118.1	61.9	42.0	40.6	42.0	34.9	28.5	28.5
85°	381.5	521.0	85.4	46.3	19.9	6.4	9.3	10.0	5.7	2.8	3.6
87.5°	7.1	53.4	2.1	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°	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6
2.5°	2891.1	2884.7	2895.4	2849.8	2859.1	2876.1	2884.7	2889.7	2960.1	2943.8	2988.6
5°	2255.5	2249.1	2290.4	2296.1	2317.4	2313.2	2333.8	2338.8	2364.4	2373.6	2436.3
7.5°	1640.6	1668.3	1715.3	1739.5	1775.8	1787.2	1776.5	1802.8	1749.5	1787.9	1799.3
10°	1318.1	1284.7	1264.8	1320.3	1327.4	1380.1	1358.7	1341.6	1372.9	1374.4	1404.3
12.5°	1097.5	1025.6	977.9	993.6	1010.7	1033.4	1037.0	1071.2	1093.9	1115.3	1133.1
15°	860.5	835.6	792.2	770.8	795.0	804.3	826.3	854.8	879.0	885.4	909.6
17.5°	660.5	664.8	657.6	644.8	659.8	666.9	668.3	669.0	675.4	671.2	706.8
20°	531.7	546.6	564.4	567.3	572.2	575.8	569.4	545.2	545.9	560.8	572.2
22.5°	481.1	484.0	503.9	510.3	526.0	519.6	501.1	489.7	488.3	491.8	497.5
25°	441.3	445.5	459.8	469.7	481.8	470.5	456.9	446.3	444.8	448.4	454.1
27.5°	405.7	412.1	424.9	434.9	446.3	435.6	422.8	413.5	412.8	412.1	415.7
30°	377.2	384.3	393.6	405.0	412.8	403.6	391.5	386.5	385.8	384.3	385.8
32.5°	348.8	360.1	369.4	375.1	382.9	375.8	366.5	363.7	358.7	354.4	352.3
35°	316.7	328.8	343.1	350.2	358.0	350.9	344.5	332.4	323.8	323.1	324.6
37.5°	298.2	303.2	314.6	326.7	334.5	331.0	318.9	306.8	304.6	304.6	306.0
40°	281.8	284.0	289.0	304.6	318.9	308.2	293.2	289.7	289.7	289.0	289.7
42.5°	265.5	267.6	267.6	279.7	302.5	285.4	274.0	274.0	274.0	274.7	276.9
45°	250.5	251.2	250.5	259.1	280.4	266.2	258.4	260.5	261.9	263.3	264.8
47.5°	237.7	238.4	237.7	244.8	255.5	249.8	245.5	248.4	251.2	253.4	254.8
50°	226.3	225.6	227.0	231.3	236.3	237.7	234.9	239.1	240.6	243.4	247.0
52.5°	216.4	215.7	217.1	219.2	226.3	226.3	226.3	229.9	232.7	235.6	240.6
55°	205.0	205.7	207.8	210.7	219.9	218.5	219.2	222.1	224.9	229.2	232.0
57.5°	194.3	195.7	198.6	202.8	212.1	211.4	212.1	213.5	217.1	219.2	222.1
60°	182.2	185.1	188.6	191.5	200.7	200.0	203.6	206.4	208.5	208.5	210.0
62.5°	170.1	174.4	177.9	180.1	190.0	190.7	195.7	197.9	199.3	197.9	200.0
65°	158.0	164.4	165.8	168.7	178.6	179.4	185.1	190.0	188.6	187.2	190.7
67.5°	145.9	153.7	153.0	156.6	166.5	168.0	173.0	181.5	178.6	177.2	180.1
70°	132.4	138.1	138.8	140.9	154.4	152.3	160.1	168.0	165.8	166.5	166.5
72.5°	117.4	122.4	122.4	126.7	140.9	137.4	143.8	152.3	152.3	151.6	151.6
75°	99.6	102.5	105.3	111.7	126.7	122.4	126.7	134.5	135.9	134.5	134.5
77.5°	80.4	84.7	86.1	94.7	105.3	104.6	108.9	112.5	115.3	113.9	113.9
80°	56.9	61.2	66.9	76.2	82.6	84.7	86.8	89.7	91.1	91.1	92.5
82.5°	32.0	38.4	43.4	52.7	55.5	66.2	65.5	67.6	65.5	57.7	64.1
85°	7.1	13.5	19.2	24.2	27.8	38.4	40.6	45.6	37.7	34.9	34.9
87.5°	0.0	0.0	0.0	0.0	0.0	5.7	11.4	15.7	13.5	11.4	11.4
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-SA2C-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6
2.5°	3026.3	3088.2	3163.0	3291.8	3382.2	3479.7	3577.9	3682.5	3710.3	3738.8
5°	2453.4	2575.1	2641.3	2814.2	2995.7	3226.3	3414.9	3621.3	3707.4	3727.4
7.5°	1858.3	1940.9	2114.6	2289.7	2514.6	2756.6	3045.5	3367.2	3467.6	3509.6
10°	1473.3	1585.8	1738.1	1926.0	2123.1	2383.6	2709.6	3085.4	3227.7	3251.2
12.5°	1254.1	1379.3	1545.2	1743.8	1930.2	2126.7	2455.5	2843.4	2995.7	3046.2
15°	1002.8	1154.4	1345.9	1555.1	1758.0	1972.9	2306.0	2743.8	2919.6	2978.6
17.5°	787.9	910.3	1117.4	1344.5	1585.0	1856.9	2274.7	2791.4	3007.8	3062.6
20°	602.8	690.4	864.8	1104.6	1386.5	1742.3	2282.5	2971.5	3230.6	3305.3
22.5°	521.0	565.8	671.9	900.3	1215.6	1642.7	2314.6	3218.5	3530.9	3655.5
25°	471.9	495.4	555.2	704.6	1052.7	1545.9	2387.9	3550.9	3950.9	4033.4
27.5°	429.9	447.0	484.0	591.5	904.6	1456.2	2473.3	3919.5	4343.0	4466.2
30°	390.0	412.8	447.7	525.3	810.0	1374.4	2580.8	4218.5	4673.3	4787.9
32.5°	359.4	382.2	414.2	479.0	729.5	1288.2	2644.8	4481.1	4943.0	5040.5
35°	334.5	353.7	387.2	442.0	668.3	1222.8	2632.0	4689.6	5204.2	5303.9
37.5°	316.7	333.1	366.5	407.1	622.1	1154.4	2625.6	4965.1	5522.4	5637.7
40°	300.4	317.4	348.0	384.3	575.8	1074.0	2629.2	5238.4	5861.2	5976.5
42.5°	287.5	306.8	331.7	377.9	528.1	1009.2	2629.2	5476.1	6155.8	6266.9
45°	276.9	297.5	321.7	377.2	490.4	960.1	2611.4	5680.4	6390.7	6485.4
47.5°	267.6	290.4	325.3	364.4	481.1	924.5	2595.7	5844.1	6582.2	6671.1
50°	261.2	288.3	345.9	349.5	484.0	913.9	2671.2	6050.5	6750.8	6827.7
52.5°	256.2	289.0	345.2	327.4	479.0	921.0	2828.4	6372.9	6985.0	6990.7
55°	246.3	288.3	327.4	302.5	458.4	933.1	3030.6	6841.2	7351.5	7355.8
57.5°	236.3	280.4	303.9	281.1	416.4	933.1	3274.0	7284.6	7793.5	7797.1
60°	226.3	291.8	266.9	262.6	361.6	916.0	3530.9	7479.7	7932.3	7968.6
62.5°	216.4	293.9	238.4	246.3	321.7	874.7	3722.4	7264.0	7744.4	7796.4
65°	205.0	237.0	219.9	229.2	301.1	805.7	3661.9	6869.0	7391.4	7453.3
67.5°	191.5	200.7	200.0	211.4	293.9	703.9	3343.0	6369.3	7011.3	7007.8
70°	175.1	180.1	182.2	194.3	280.4	624.9	2785.7	5721.0	6503.9	6583.6
72.5°	158.0	162.3	164.4	175.1	266.9	580.1	2162.3	4827.7	5633.4	5758.0
75°	139.5	142.3	145.2	154.4	252.7	513.9	1540.2	3685.4	4314.6	4510.3
77.5°	120.3	120.3	123.8	133.1	212.8	424.2	1033.4	2585.0	2923.1	3123.1
80°	97.5	98.2	96.8	106.8	156.6	290.4	587.2	1726.7	1945.2	1983.6
82.5°	74.7	72.6	73.3	78.3	116.7	197.9	313.2	1072.6	1093.2	1071.9
85°	47.0	47.0	45.6	51.2	74.7	103.2	170.8	656.9	513.2	488.3
87.5°	19.2	15.7	17.8	20.6	35.6	42.0	66.9	135.2	52.0	47.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)