

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: P450696

Luminaire Tested: **GALN-SA1C-730-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450696  
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-SA1C-730-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5584 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

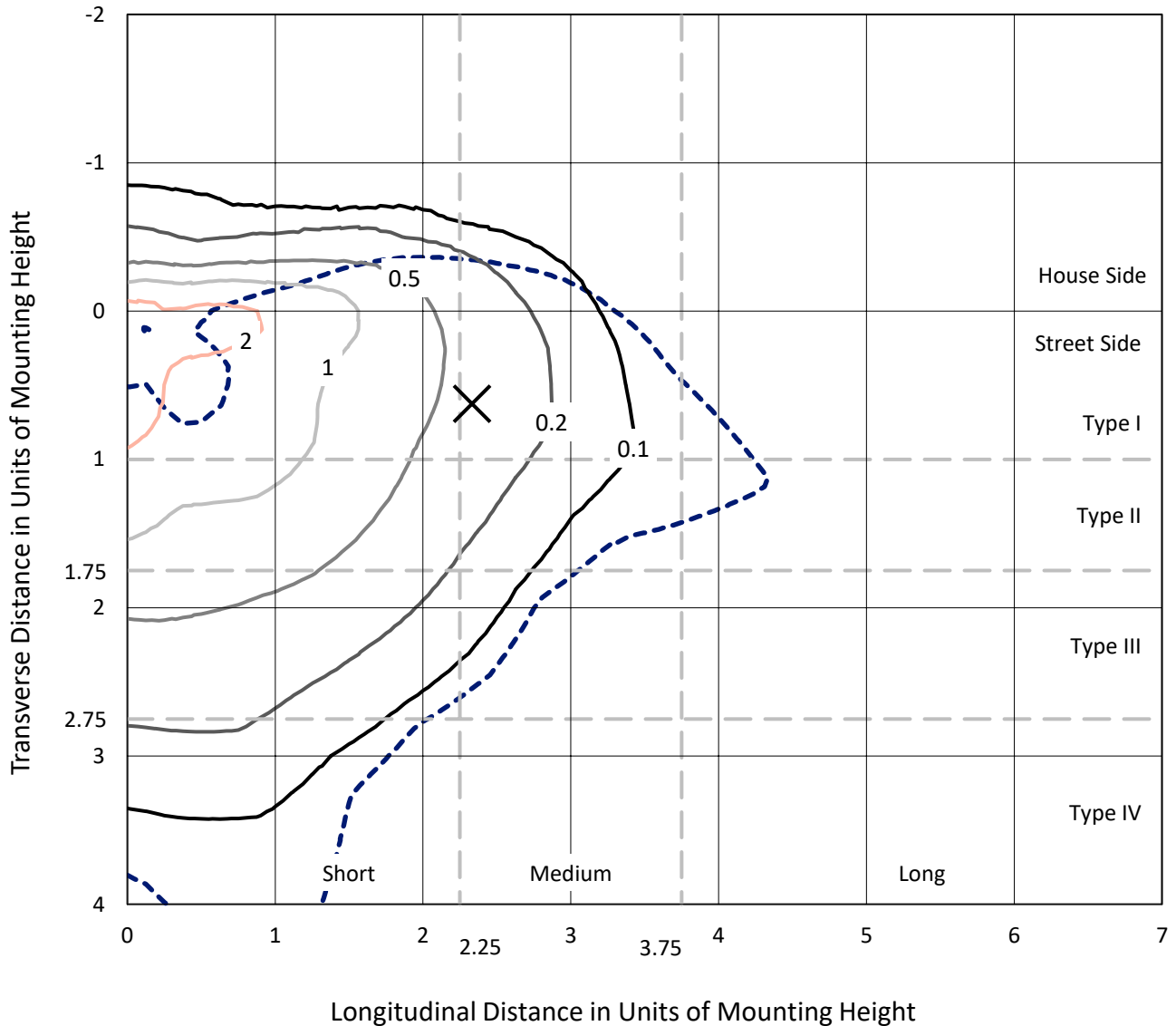
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P450696  
 CATALOG NUMBER: GALN-SA1C-730-U-SLL

### Iso-Footcandle Lines of Horizontal Illumination

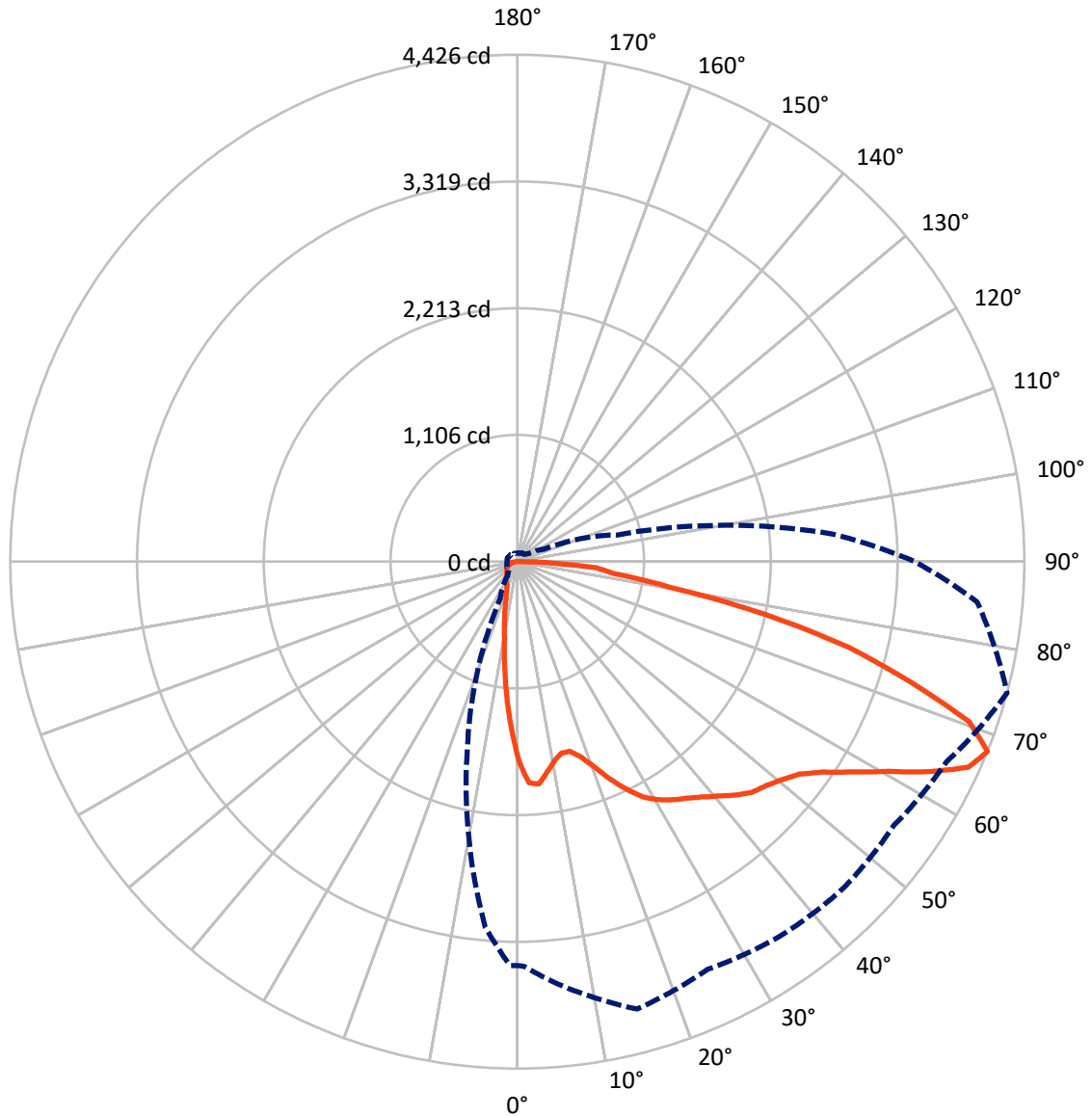
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Medium - N/A

REPORT NUMBER: P450696  
CATALOG NUMBER: GALN-SA1C-730-U-SLL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P450696

CATALOG NUMBER: GALN-SA1C-730-U-SLL

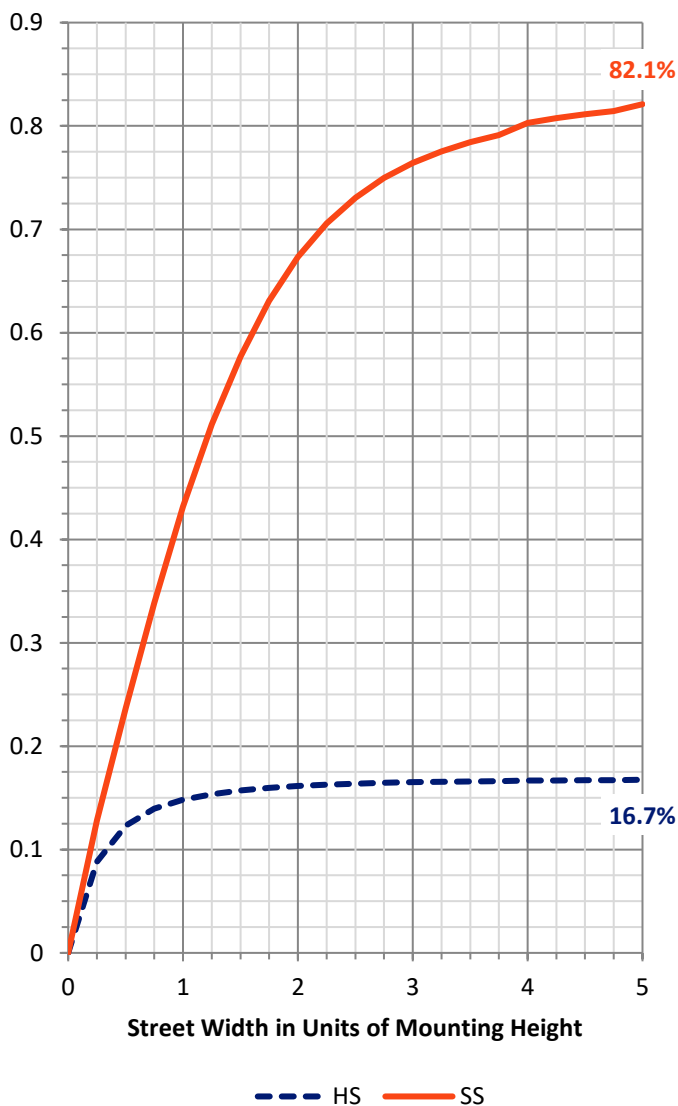
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	943.8	0.0	943.8
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	4640.2	0.0	4640.2
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	5584.0	0.0	5584.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.3	2.4
10°-20°	276.0	4.9
20°-30°	397.1	7.1
30°-40°	571.9	10.2
40°-50°	803.4	14.4
50°-60°	1120.5	20.1
60°-70°	1332.2	23.9
70°-80°	784.6	14.1
80°-90°	165.9	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°	5584.0	100.0
0°-180°	5584.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P450696

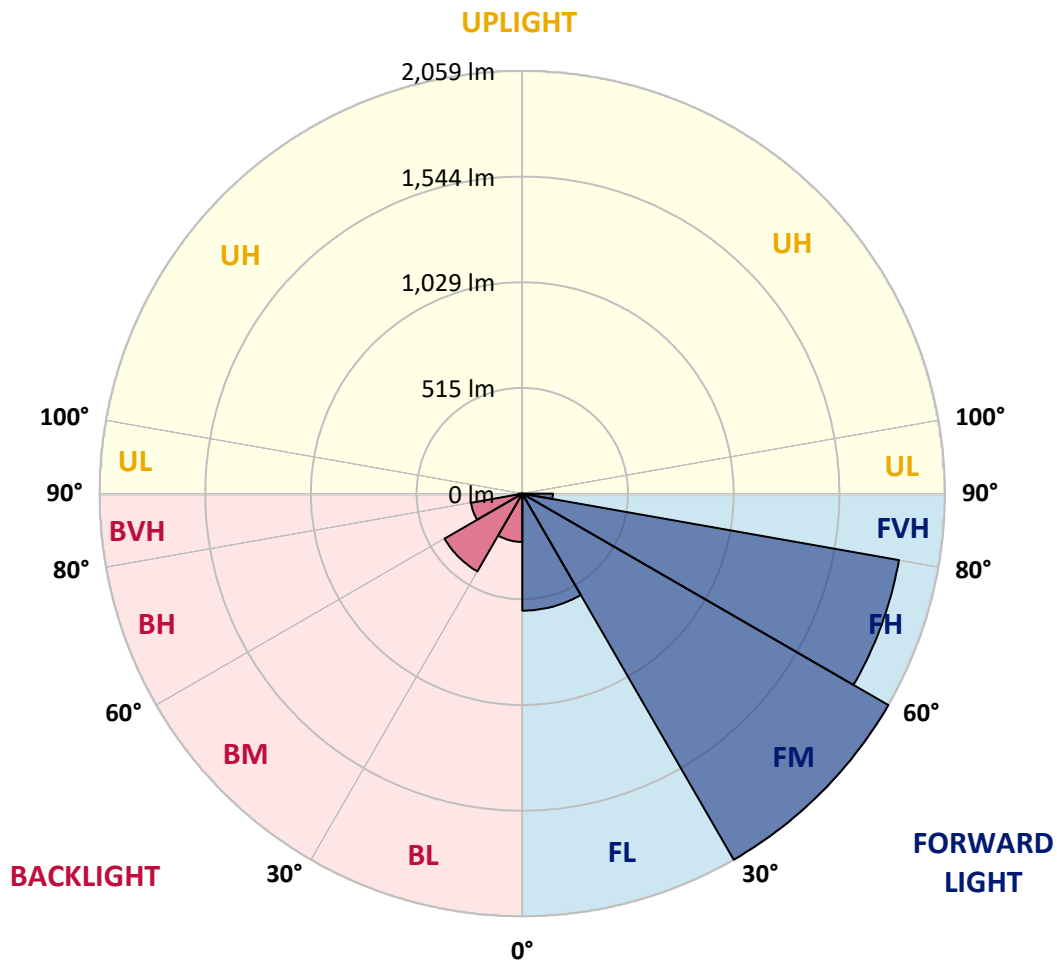
CATALOG NUMBER: GALN-SA1C-730-U-SLL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	570.0	10.2			
FM	(30°-60°)	2058.6	36.9			
FH	(60°-80°)	1862.8	33.4			G2/5000
FVH	(80°-90°)	148.7	2.7			G2/225
BL	(0°-30°)	235.4	4.2	B1/500		
BM	(30°-60°)	437.3	7.8	B1/1000		
BH	(60°-80°)	254.0	4.5	B1/500		G1/500
BVH	(80°-90°)	17.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





REPORT NUMBER: P450696

CATALOG NUMBER: GALN-SA1C-730-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6
2.5°	1881.0	1883.5	1899.6	1946.5	1978.8	1990.6	1998.8	1983.4	1968.4	1931.9	1876.7
5°	1875.3	1890.0	1931.9	2037.1	2120.2	2156.0	2166.8	2120.6	2044.3	1950.5	1837.7
7.5°	1765.7	1785.4	1849.8	2026.4	2172.8	2256.6	2245.5	2162.1	2024.6	1857.4	1699.8
10°	1635.7	1657.6	1735.3	1948.7	2137.4	2252.7	2252.7	2151.0	1968.4	1769.6	1588.1
12.5°	1532.6	1555.5	1644.3	1868.8	2063.6	2172.8	2191.1	2103.7	1927.9	1714.1	1514.7
15°	1498.6	1520.8	1616.4	1820.5	1985.6	2052.2	2058.3	2029.6	1908.2	1718.1	1511.5
17.5°	1540.8	1569.5	1666.2	1834.8	1913.9	1917.9	1922.5	1945.1	1910.4	1790.1	1576.6
20°	1662.9	1693.7	1794.7	1881.0	1851.3	1810.5	1813.0	1871.0	1935.8	1908.9	1732.4
22.5°	1839.1	1866.0	1969.4	1962.3	1824.8	1740.6	1723.1	1804.0	1973.4	2057.2	1898.2
25°	2029.2	2060.8	2179.6	2083.0	1832.3	1699.1	1688.0	1764.6	2012.4	2195.8	2089.8
27.5°	2247.0	2277.8	2371.6	2204.7	1871.7	1695.9	1682.6	1761.0	2047.5	2323.9	2272.7
30°	2408.8	2437.1	2500.8	2307.1	1920.0	1717.4	1700.9	1789.3	2077.6	2411.7	2451.1
32.5°	2535.9	2565.3	2600.0	2370.9	1983.8	1756.4	1726.0	1840.9	2117.0	2478.6	2583.2
35°	2668.4	2703.2	2700.7	2427.4	2043.2	1801.5	1771.8	1915.4	2178.9	2537.0	2750.8
37.5°	2836.4	2850.3	2832.4	2478.3	2114.5	1882.8	1866.3	2026.0	2267.0	2607.6	2946.7
40°	3006.8	3034.7	2942.7	2539.9	2201.1	2035.7	2033.9	2189.7	2371.6	2690.3	3136.4
42.5°	3152.9	3176.5	3045.8	2593.6	2306.0	2222.3	2235.9	2409.2	2508.7	2786.2	3289.0
45°	3262.8	3284.0	3141.1	2645.5	2444.3	2437.8	2518.0	2644.4	2681.7	2872.5	3378.5
47.5°	3356.3	3376.7	3207.3	2724.3	2615.1	2695.3	2834.9	2889.7	2829.6	2921.9	3478.8
50°	3435.1	3441.2	3252.8	2818.1	2827.1	3010.8	3146.1	3181.6	2975.7	2992.8	3565.8
52.5°	3517.1	3509.2	3331.2	2936.3	3056.2	3310.1	3408.6	3445.5	3115.7	3080.2	3692.5
55°	3700.8	3708.3	3507.1	3085.2	3287.9	3604.1	3733.7	3698.3	3270.7	3241.0	3853.7
57.5°	3922.8	3916.3	3754.5	3318.3	3523.9	3877.7	3974.3	3917.4	3477.7	3461.9	4017.0
60°	4009.1	4017.7	3961.5	3569.0	3756.6	4117.2	4216.1	4127.6	3725.8	3718.7	4140.1
62.5°	3922.4	3970.8	4008.7	3792.1	3955.0	4293.4	4391.5	4290.5	3984.7	4036.7	4226.4
65°	3749.8	3760.2	3889.5	3981.2	4050.6	4322.4	4373.6	4319.9	4201.0	4326.3	4222.5
67.5°	3525.7	3534.6	3686.1	4043.1	3927.4	3993.0	4028.8	4013.0	4134.1	4425.5	4028.1
70°	3312.3	3305.1	3465.2	3885.2	3419.0	3319.4	3349.1	3299.7	3567.2	4183.1	3646.7
72.5°	2896.9	2922.7	3094.5	3446.2	2707.1	2545.2	2610.1	2482.2	2743.6	3582.6	2959.9
75°	2269.2	2275.3	2562.1	2892.2	2042.1	1786.8	1874.6	1821.2	2101.6	2988.5	2043.9
77.5°	1571.3	1557.7	1866.0	2209.0	1456.3	1308.1	1309.5	1284.1	1467.4	2200.4	1388.6
80°	998.0	977.2	1168.1	1364.6	1000.8	1070.7	1035.6	1034.5	955.4	1357.5	839.7
82.5°	539.3	562.2	738.0	855.5	718.0	827.5	758.4	736.2	655.6	849.7	537.1
85°	245.6	267.1	393.5	581.9	545.4	551.4	368.5	434.7	542.5	690.0	286.8
87.5°	24.0	30.8	81.3	274.6	186.2	146.8	54.8	105.6	136.4	245.3	22.9
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: P450696  
 CATALOG NUMBER: GALN-SA1C-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6
2.5°	1854.1	1835.5	1772.1	1719.9	1664.4	1622.1	1567.0	1530.1	1504.7	1466.3	1461.7
5°	1768.9	1723.4	1613.2	1500.7	1403.7	1330.6	1256.5	1188.5	1148.4	1135.8	1119.7
7.5°	1625.3	1548.7	1406.9	1278.0	1166.6	1057.8	974.0	914.5	874.8	851.5	823.6
10°	1507.2	1418.4	1245.8	1087.9	996.2	928.5	854.7	791.0	741.9	700.0	677.1
12.5°	1427.7	1327.4	1133.3	1005.1	934.2	862.3	776.0	704.3	632.0	584.4	564.0
15°	1403.7	1297.7	1098.6	964.0	862.3	768.1	671.4	577.9	506.3	461.2	446.2
17.5°	1462.4	1334.2	1098.2	909.2	777.8	665.3	541.4	453.7	380.3	346.6	335.9
20°	1572.0	1404.4	1101.5	855.1	686.1	527.8	393.9	321.9	286.8	272.5	267.1
22.5°	1724.9	1511.5	1111.1	801.7	585.8	405.3	295.1	258.5	246.0	243.5	242.4
25°	1913.2	1644.0	1143.7	753.8	501.3	309.4	246.7	230.2	223.1	220.6	220.2
27.5°	2086.5	1815.1	1183.1	712.6	419.7	266.8	223.1	209.1	202.0	201.6	202.3
30°	2243.0	1958.3	1216.0	666.4	357.7	237.1	207.7	193.7	186.9	186.6	188.7
32.5°	2378.4	2076.2	1240.4	620.9	323.3	218.8	193.7	178.7	173.0	171.9	173.0
35°	2523.0	2193.6	1229.3	585.5	303.7	203.7	183.3	168.7	161.9	158.6	158.6
37.5°	2688.1	2314.6	1210.3	556.1	294.7	191.2	174.4	160.1	153.3	150.0	149.7
40°	2868.2	2435.7	1184.2	530.0	285.7	183.7	168.3	153.3	145.0	141.8	141.1
42.5°	3027.2	2539.2	1162.7	512.8	271.1	185.1	162.9	148.2	137.9	133.6	133.2
45°	3165.4	2643.4	1158.8	502.7	258.9	183.0	161.5	144.3	132.1	127.5	126.8
47.5°	3273.6	2751.9	1181.3	497.0	245.6	171.5	170.8	141.8	127.1	122.1	121.4
50°	3405.4	2905.8	1232.9	485.2	233.5	160.8	180.5	141.4	123.2	116.7	114.9
52.5°	3580.8	3106.4	1302.7	464.1	215.9	150.8	172.2	141.4	118.5	112.1	109.9
55°	3846.2	3362.0	1371.1	434.4	191.2	137.5	155.4	137.1	111.7	106.0	104.6
57.5°	4022.0	3548.9	1414.8	393.2	160.4	127.8	133.9	130.3	104.9	98.8	98.8
60°	4030.9	3599.1	1394.0	341.3	141.1	118.9	116.4	131.4	98.8	92.4	91.7
62.5°	3927.8	3476.3	1285.9	294.7	130.7	109.2	105.3	115.3	92.7	86.3	85.2
65°	3766.7	3162.9	1098.2	272.5	125.0	100.6	94.9	94.5	86.3	80.2	78.8
67.5°	3470.5	2764.0	902.4	259.6	122.1	91.0	85.6	83.8	78.8	73.8	73.0
70°	3034.0	2315.0	723.7	254.2	120.7	80.9	76.6	74.5	70.2	66.2	65.9
72.5°	2360.5	1877.8	597.3	250.7	120.0	71.6	67.0	64.1	61.6	58.0	58.0
75°	1695.5	1381.5	455.8	225.9	111.0	61.6	56.6	54.8	51.2	48.3	49.1
77.5°	1068.9	930.3	300.1	166.1	85.9	49.4	45.1	44.0	41.2	37.2	39.7
80°	721.9	654.2	175.1	104.6	54.1	36.2	34.7	34.4	31.2	26.9	27.2
82.5°	491.3	482.0	91.0	59.4	31.2	21.1	20.4	21.1	17.5	14.3	14.3
85°	191.9	262.1	43.0	23.3	10.0	3.2	4.7	5.0	2.9	1.4	1.8
87.5°	3.6	26.9	1.1	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





REPORT NUMBER: P450696  
 CATALOG NUMBER: GALN-SA1C-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6
2.5°	1454.5	1451.3	1456.7	1433.8	1438.4	1447.0	1451.3	1453.8	1489.3	1481.0	1503.6
5°	1134.8	1131.5	1152.3	1155.2	1165.9	1163.8	1174.1	1176.7	1189.5	1194.2	1225.7
7.5°	825.4	839.3	863.0	875.2	893.4	899.1	893.8	907.0	880.2	899.5	905.2
10°	663.2	646.3	636.3	664.2	667.8	694.3	683.6	675.0	690.7	691.5	706.5
12.5°	552.2	516.0	492.0	499.9	508.5	519.9	521.7	538.9	550.4	561.1	570.1
15°	432.9	420.4	398.5	387.8	400.0	404.6	415.7	430.1	442.2	445.5	457.6
17.5°	332.3	334.4	330.9	324.4	331.9	335.5	336.2	336.6	339.8	337.7	355.6
20°	267.5	275.0	284.0	285.4	287.9	289.7	286.5	274.3	274.6	282.2	287.9
22.5°	242.1	243.5	253.5	256.7	264.6	261.4	252.1	246.4	245.6	247.4	250.3
25°	222.0	224.2	231.3	236.3	242.4	236.7	229.9	224.5	223.8	225.6	228.5
27.5°	204.1	207.3	213.8	218.8	224.5	219.1	212.7	208.0	207.7	207.3	209.1
30°	189.8	193.4	198.0	203.7	207.7	203.0	196.9	194.4	194.1	193.4	194.1
32.5°	175.5	181.2	185.8	188.7	192.6	189.1	184.4	183.0	180.5	178.3	177.3
35°	159.3	165.4	172.6	176.2	180.1	176.5	173.3	167.2	162.9	162.6	163.3
37.5°	150.0	152.5	158.3	164.4	168.3	166.5	160.4	154.3	153.3	153.3	154.0
40°	141.8	142.9	145.4	153.3	160.4	155.0	147.5	145.7	145.7	145.4	145.7
42.5°	133.6	134.6	134.6	140.7	152.2	143.6	137.9	137.9	137.9	138.2	139.3
45°	126.0	126.4	126.0	130.3	141.1	133.9	130.0	131.1	131.8	132.5	133.2
47.5°	119.6	120.0	119.6	123.2	128.6	125.7	123.5	125.0	126.4	127.5	128.2
50°	113.9	113.5	114.2	116.4	118.9	119.6	118.2	120.3	121.0	122.5	124.3
52.5°	108.9	108.5	109.2	110.3	113.9	113.9	113.9	115.7	117.1	118.5	121.0
55°	103.1	103.5	104.6	106.0	110.6	109.9	110.3	111.7	113.2	115.3	116.7
57.5°	97.8	98.5	99.9	102.1	106.7	106.4	106.7	107.4	109.2	110.3	111.7
60°	91.7	93.1	94.9	96.3	101.0	100.6	102.4	103.8	104.9	104.9	105.6
62.5°	85.6	87.7	89.5	90.6	95.6	96.0	98.5	99.5	100.3	99.5	100.6
65°	79.5	82.7	83.4	84.9	89.9	90.2	93.1	95.6	94.9	94.2	96.0
67.5°	73.4	77.3	77.0	78.8	83.8	84.5	87.0	91.3	89.9	89.2	90.6
70°	66.6	69.5	69.8	70.9	77.7	76.6	80.6	84.5	83.4	83.8	83.8
72.5°	59.1	61.6	61.6	63.7	70.9	69.1	72.3	76.6	76.6	76.3	76.3
75°	50.1	51.6	53.0	56.2	63.7	61.6	63.7	67.7	68.4	67.7	67.7
77.5°	40.5	42.6	43.3	47.6	53.0	52.6	54.8	56.6	58.0	57.3	57.3
80°	28.6	30.8	33.7	38.3	41.5	42.6	43.7	45.1	45.8	45.8	46.6
82.5°	16.1	19.3	21.8	26.5	27.9	33.3	32.9	34.0	32.9	29.0	32.2
85°	3.6	6.8	9.7	12.2	14.0	19.3	20.4	22.9	19.0	17.5	17.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.9	5.7	7.9	6.8	5.7	5.7
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-SA1C-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6
2.5°	1522.6	1553.7	1591.3	1656.1	1701.6	1750.7	1800.1	1852.7	1866.7	1881.0
5°	1234.3	1295.5	1328.8	1415.9	1507.2	1623.2	1718.1	1821.9	1865.2	1875.3
7.5°	935.0	976.5	1063.9	1151.9	1265.1	1386.9	1532.2	1694.1	1744.6	1765.7
10°	741.2	797.8	874.4	969.0	1068.2	1199.2	1363.2	1552.3	1623.9	1635.7
12.5°	630.9	694.0	777.4	877.3	971.1	1069.9	1235.4	1430.5	1507.2	1532.6
15°	504.5	580.8	677.1	782.4	884.5	992.6	1160.2	1380.4	1468.9	1498.6
17.5°	396.4	458.0	562.2	676.4	797.4	934.2	1144.4	1404.4	1513.3	1540.8
20°	303.3	347.3	435.1	555.7	697.5	876.6	1148.4	1495.0	1625.3	1662.9
22.5°	262.1	284.7	338.0	453.0	611.6	826.5	1164.5	1619.2	1776.4	1839.1
25°	237.4	249.2	279.3	354.5	529.6	777.8	1201.4	1786.5	1987.7	2029.2
27.5°	216.3	224.9	243.5	297.6	455.1	732.6	1244.3	1972.0	2185.0	2247.0
30°	196.2	207.7	225.2	264.3	407.5	691.5	1298.4	2122.3	2351.2	2408.8
32.5°	180.8	192.3	208.4	241.0	367.0	648.1	1330.6	2254.5	2486.9	2535.9
35°	168.3	178.0	194.8	222.4	336.2	615.2	1324.2	2359.4	2618.3	2668.4
37.5°	159.3	167.6	184.4	204.8	313.0	580.8	1321.0	2498.0	2778.4	2836.4
40°	151.1	159.7	175.1	193.4	289.7	540.3	1322.8	2635.5	2948.8	3006.8
42.5°	144.7	154.3	166.9	190.1	265.7	507.8	1322.8	2755.1	3097.0	3152.9
45°	139.3	149.7	161.9	189.8	246.7	483.1	1313.8	2857.8	3215.2	3262.8
47.5°	134.6	146.1	163.6	183.3	242.1	465.1	1305.9	2940.2	3311.5	3356.3
50°	131.4	145.0	174.0	175.8	243.5	459.8	1343.9	3044.1	3396.4	3435.1
52.5°	128.9	145.4	173.7	164.7	241.0	463.4	1423.0	3206.3	3514.2	3517.1
55°	123.9	145.0	164.7	152.2	230.6	469.4	1524.7	3441.9	3698.6	3700.8
57.5°	118.9	141.1	152.9	141.4	209.5	469.4	1647.2	3665.0	3921.0	3922.8
60°	113.9	146.8	134.3	132.1	181.9	460.9	1776.4	3763.1	3990.8	4009.1
62.5°	108.9	147.9	120.0	123.9	161.9	440.1	1872.8	3654.6	3896.3	3922.4
65°	103.1	119.2	110.6	115.3	151.5	405.3	1842.3	3455.8	3718.7	3749.8
67.5°	96.3	101.0	100.6	106.4	147.9	354.1	1681.9	3204.5	3527.5	3525.7
70°	88.1	90.6	91.7	97.8	141.1	314.4	1401.5	2878.3	3272.2	3312.3
72.5°	79.5	81.6	82.7	88.1	134.3	291.8	1087.9	2428.9	2834.2	2896.9
75°	70.2	71.6	73.0	77.7	127.1	258.5	774.9	1854.1	2170.7	2269.2
77.5°	60.5	60.5	62.3	67.0	107.1	213.4	519.9	1300.6	1470.6	1571.3
80°	49.1	49.4	48.7	53.7	78.8	146.1	295.4	868.7	978.6	998.0
82.5°	37.6	36.5	36.9	39.4	58.7	99.5	157.6	539.6	550.0	539.3
85°	23.6	23.6	22.9	25.8	37.6	51.9	85.9	330.5	258.2	245.6
87.5°	9.7	7.9	9.0	10.4	17.9	21.1	33.7	68.0	26.1	24.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)