

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: P527249

Luminaire Tested: **GALN-SA2B-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527249  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-730-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5761 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

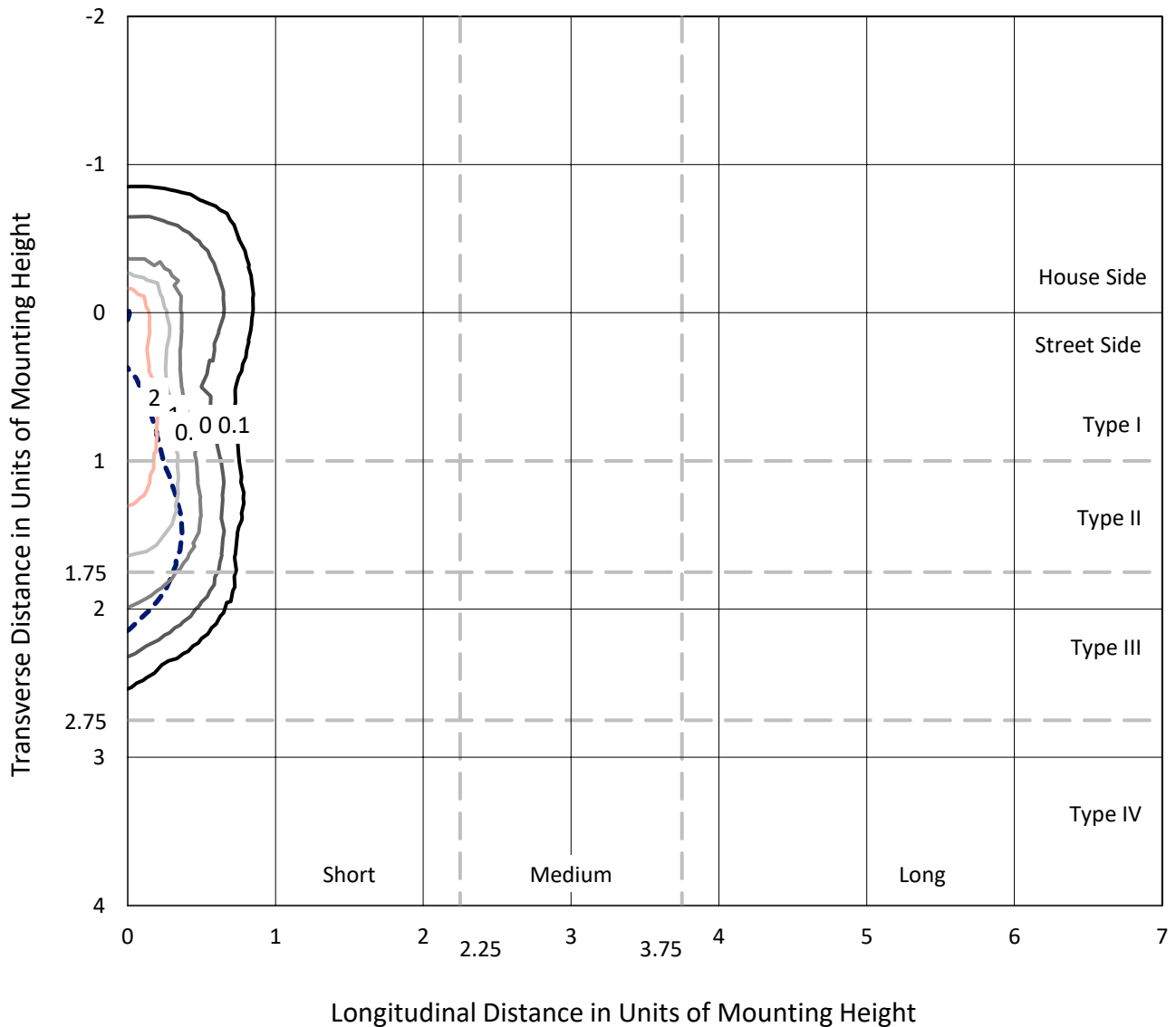
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

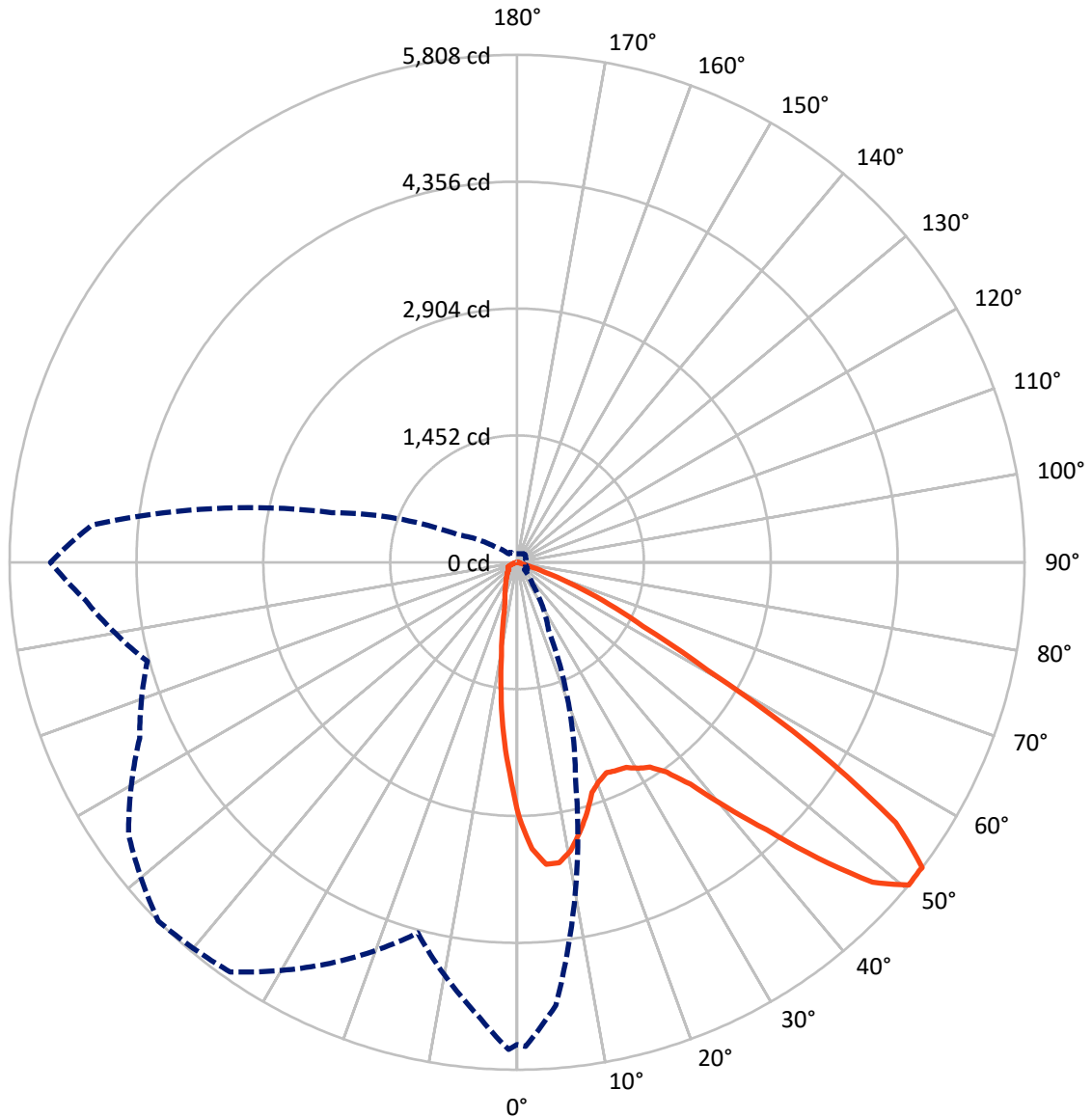
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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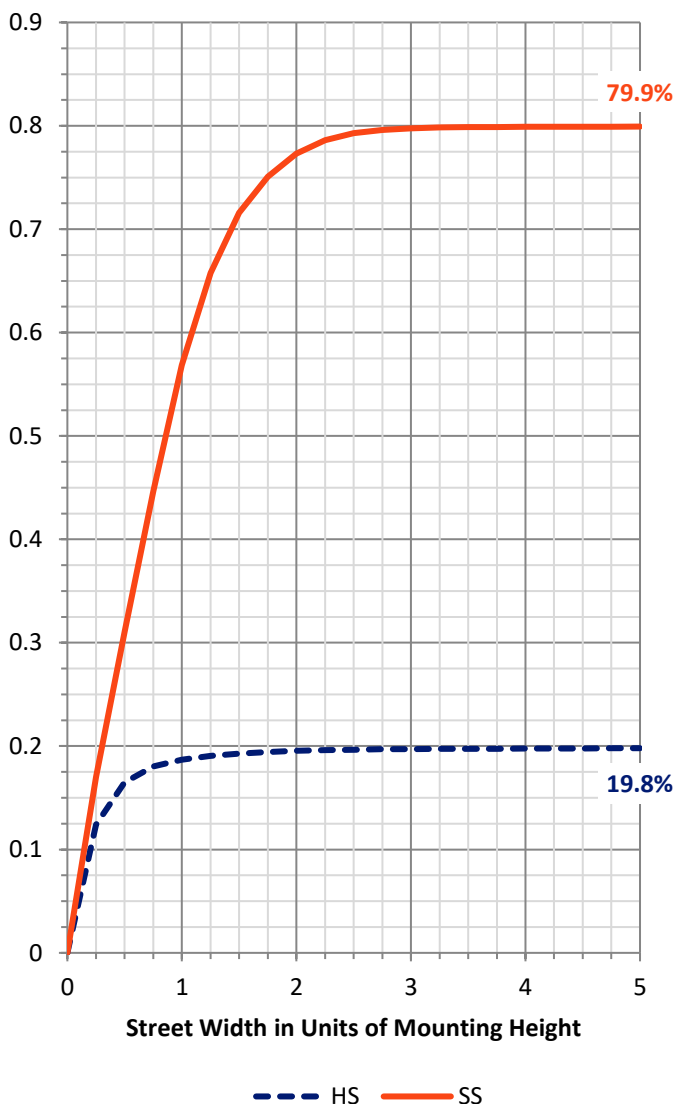
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1153.9	0.0	1153.9
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	4607.1	0.0	4607.1
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	5761.0	0.0	5761.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.9	3.7
10°-20°	423.2	7.3
20°-30°	635.8	11.0
30°-40°	954.3	16.6
40°-50°	1341.3	23.3
50°-60°	1446.8	25.1
60°-70°	671.7	11.7
70°-80°	63.2	1.1
80°-90°	11.6	0.2
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°	5761.0	100.0
0°-180°	5761.0	100.0

**Coefficient of Utilization**



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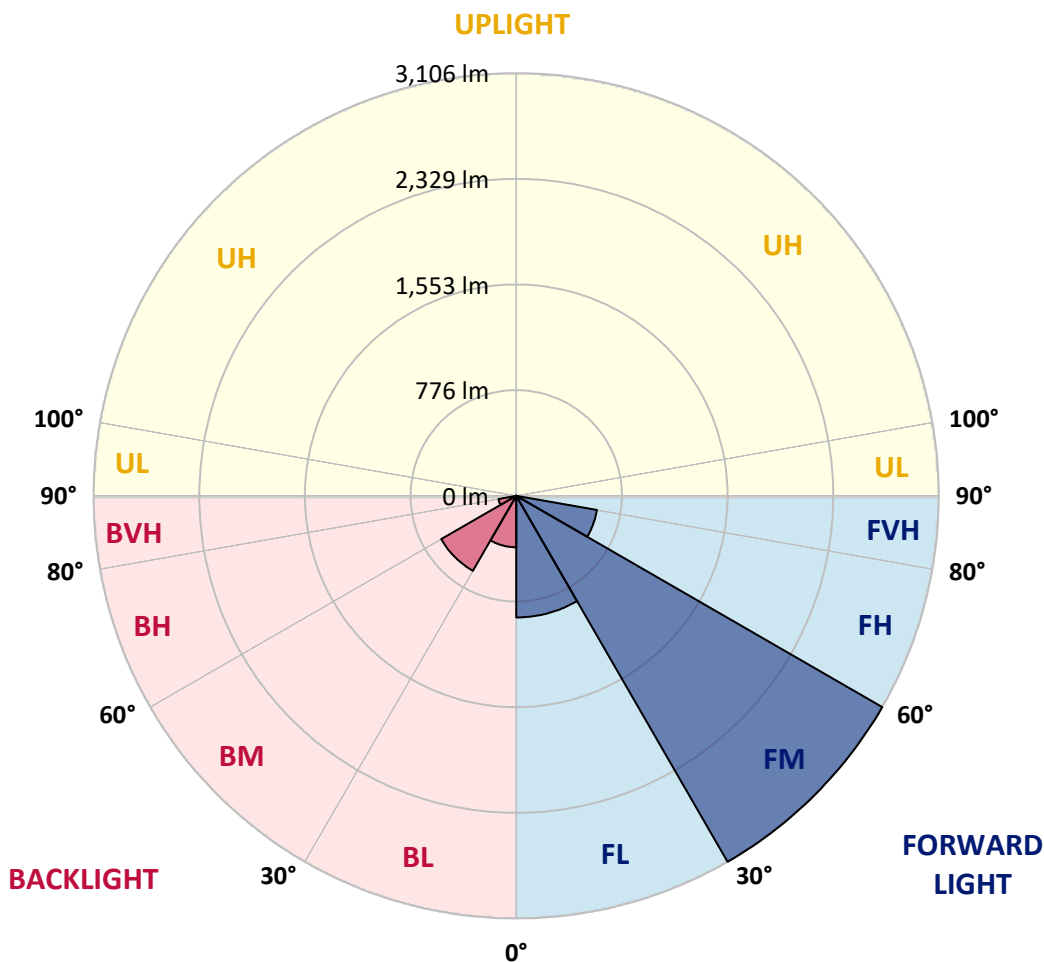
CATALOG NUMBER: GALN-SA2B-730-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	893.8	15.5			
FM (30°-60°)	3105.6	53.9			
FH (60°-80°)	602.4	10.5			G0/660
FVH (80°-90°)	5.2	0.1			G0/10
BL (0°-30°)	378.2	6.6	B1/500		
BM (30°-60°)	636.8	11.1	B1/1000		
BH (60°-80°)	132.5	2.3	B1/500		G1/500
BVH (80°-90°)	6.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6
2.5°	3037.0	2990.1	2930.7	2881.5	2808.4	2660.9	2620.9	2572.9	2532.9	2479.2	2403.8
5°	2761.5	2746.7	2719.2	2534.1	2400.3	2222.0	2075.7	2014.0	1932.8	1866.5	1818.5
7.5°	2551.2	2491.8	2404.9	2218.6	2004.9	1814.0	1651.7	1556.8	1449.3	1412.8	1347.6
10°	2326.0	2339.8	2211.7	1950.0	1691.7	1537.4	1436.8	1345.3	1248.2	1184.2	1091.6
12.5°	2254.0	2209.5	2111.2	1787.7	1567.1	1423.1	1300.8	1187.6	1084.7	981.9	892.7
15°	2300.9	2232.3	2095.2	1753.4	1471.1	1291.6	1138.4	985.3	890.4	759.0	666.4
17.5°	2468.9	2414.1	2230.0	1790.0	1421.9	1165.9	938.4	780.7	635.5	516.6	469.8
20°	2749.0	2671.2	2440.3	1836.8	1348.8	1013.9	761.2	566.9	429.8	379.5	353.2
22.5°	3023.3	2981.0	2689.5	1927.1	1283.6	879.0	571.5	381.8	321.2	312.0	294.9
25°	3545.6	3418.8	3070.1	2090.6	1233.3	752.1	430.9	307.5	272.0	265.2	267.5
27.5°	3856.5	3750.2	3422.2	2199.2	1177.3	654.9	364.6	282.3	258.3	243.5	237.7
30°	4154.9	4031.4	3597.1	2263.2	1057.3	552.1	323.5	270.9	265.2	243.5	236.6
32.5°	4384.6	4263.5	3849.7	2359.2	1008.1	485.8	266.3	211.5	196.6	194.3	214.9
35°	4736.7	4607.5	4065.7	2411.8	970.4	451.5	230.9	188.6	171.5	164.6	165.7
37.5°	5064.7	4976.7	4265.7	2432.3	930.4	441.2	206.9	169.2	154.3	149.7	148.6
40°	5339.0	5142.4	4455.5	2454.1	913.3	421.8	192.0	154.3	144.0	137.2	137.2
42.5°	5464.8	5264.7	4668.1	2441.5	908.7	390.9	192.0	141.7	133.7	126.9	125.7
45°	5437.3	5356.2	4763.0	2435.8	908.7	360.1	174.9	138.3	126.9	117.7	115.4
47.5°	5508.2	5401.9	4881.8	2459.8	890.4	338.3	147.4	145.2	120.0	108.6	106.3
50°	5520.8	5541.3	5088.7	2584.4	850.4	310.9	115.4	142.9	115.4	98.3	96.0
52°	5603.1	5475.1	5151.6	2650.7	808.1	290.3	97.2	122.3	110.9	91.4	89.2
52.5°	5489.9	5573.4	5166.4	2674.7	812.7	276.6	93.7	120.0	108.6	91.4	85.7
55°	5363.0	5443.1	5105.9	2726.1	745.2	217.2	73.2	86.9	98.3	80.0	76.6
57.5°	4661.2	4742.4	4437.2	2496.4	606.9	153.2	60.6	65.2	86.9	74.3	70.9
60°	4143.4	4085.1	3724.0	2082.6	430.9	85.7	48.0	50.3	94.9	68.6	67.4
62.5°	3786.8	3662.2	3112.4	1608.2	262.9	57.2	37.7	38.9	73.2	64.0	64.0
65°	2801.5	2662.1	2067.7	972.7	129.2	40.0	28.6	30.9	45.7	54.9	54.9
67.5°	1599.1	1545.4	999.0	438.9	53.7	25.1	21.7	24.0	35.4	44.6	42.3
70°	735.0	659.5	384.1	92.6	25.1	17.1	17.1	19.4	28.6	33.1	30.9
72.5°	214.9	203.5	93.7	14.9	10.3	10.3	11.4	14.9	21.7	25.1	22.9
75°	16.0	10.3	6.9	4.6	4.6	6.9	9.1	14.9	21.7	24.0	19.4
77.5°	1.1	2.3	1.1	1.1	3.4	6.9	10.3	18.3	28.6	29.7	21.7
80°	1.1	1.1	0.0	1.1	3.4	6.9	11.4	20.6	32.0	34.3	18.3
82.5°	0.0	0.0	0.0	1.1	4.6	9.1	13.7	21.7	29.7	36.6	19.4
85°	0.0	0.0	0.0	1.1	6.9	12.6	16.0	5.7	3.4	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°	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6
2.5°	2457.5	2427.8	2416.3	2426.6	2423.2	2419.8	2482.6	2468.9	2466.6	2487.2	2482.6
5°	1844.8	1792.3	1936.3	1878.0	1938.6	1975.1	1982.0	1985.4	2027.7	1983.1	2041.4
7.5°	1314.5	1328.2	1327.0	1365.9	1435.6	1497.4	1533.9	1505.4	1503.1	1497.4	1472.2
10°	1050.4	1026.4	1021.9	1012.7	1034.4	1087.0	1131.6	1096.2	1071.0	1105.3	1095.0
12.5°	858.4	825.3	807.0	770.4	771.5	807.0	807.0	807.0	832.1	851.5	866.4
15°	658.4	630.9	630.9	594.4	586.4	587.5	605.8	608.1	648.1	659.5	665.2
17.5°	460.6	445.8	462.9	477.8	468.6	470.9	477.8	480.1	485.8	481.2	492.6
20°	354.3	352.0	356.6	382.9	402.3	413.8	405.8	394.3	387.5	371.5	371.5
22.5°	300.6	305.2	313.2	334.9	360.1	366.9	357.8	331.5	310.9	308.6	309.8
25°	267.5	272.0	284.6	298.3	312.0	323.5	314.3	294.9	283.5	273.2	273.2
27.5°	246.9	249.2	256.0	266.3	277.8	286.9	283.5	273.2	260.6	256.0	245.7
30°	230.9	234.3	242.3	244.6	254.9	259.5	253.7	251.5	243.5	237.7	234.3
32.5°	222.9	221.7	227.5	229.7	230.9	234.3	227.5	230.9	229.7	220.6	217.2
35°	168.0	177.2	192.0	204.6	208.0	212.6	211.5	206.9	194.3	184.0	171.5
37.5°	150.9	156.6	164.6	174.9	188.6	194.3	192.0	180.6	165.7	158.9	156.6
40°	139.4	142.9	149.7	156.6	170.3	180.6	172.6	162.3	150.9	145.2	141.7
42.5°	129.2	130.3	133.7	140.6	150.9	166.9	153.2	139.4	134.9	131.4	129.2
45°	117.7	117.7	122.3	125.7	137.2	152.0	138.3	125.7	123.4	121.2	120.0
47.5°	108.6	109.7	112.0	116.6	125.7	136.0	126.9	116.6	110.9	109.7	107.4
50°	97.2	98.3	102.9	107.4	118.9	124.6	118.9	107.4	101.7	98.3	98.3
52°	88.0	91.4	96.0	105.2	113.2	122.3	115.4	102.9	96.0	92.6	90.3
52.5°	86.9	89.2	93.7	104.0	113.2	121.2	114.3	101.7	93.7	91.4	89.2
55°	77.7	81.2	89.2	101.7	112.0	121.2	112.0	100.6	89.2	83.4	81.2
57.5°	74.3	76.6	86.9	102.9	110.9	121.2	112.0	100.6	89.2	78.9	76.6
60°	70.9	75.4	86.9	99.4	109.7	122.3	113.2	99.4	86.9	74.3	74.3
62.5°	67.4	70.9	85.7	97.2	105.2	117.7	108.6	97.2	83.4	70.9	69.7
65°	58.3	64.0	75.4	81.2	90.3	101.7	92.6	84.6	73.2	62.9	61.7
67.5°	44.6	46.9	56.0	62.9	68.6	78.9	74.3	64.0	56.0	48.0	48.0
70°	30.9	33.1	40.0	43.4	49.1	54.9	51.4	43.4	37.7	33.1	32.0
72.5°	21.7	22.9	25.1	27.4	29.7	32.0	30.9	25.1	21.7	20.6	19.4
75°	17.1	19.4	20.6	19.4	18.3	17.1	17.1	14.9	12.6	11.4	11.4
77.5°	17.1	18.3	17.1	14.9	12.6	11.4	10.3	9.1	6.9	5.7	6.9
80°	14.9	14.9	14.9	12.6	11.4	10.3	9.1	8.0	6.9	5.7	5.7
82.5°	16.0	16.0	14.9	12.6	12.6	10.3	10.3	9.1	8.0	5.7	5.7
85°	0.0	0.0	0.0	2.3	5.7	10.3	10.3	9.1	8.0	6.9	6.9
87.5°	0.0	0.0	0.0	0.0	1.1	2.3	4.6	5.7	6.9	6.9	6.9
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°	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6
2.5°	2523.8	2567.2	2649.5	2731.8	2782.1	2841.5	2949.0	3006.1	3080.4	3117.0	3189.0
5°	2033.4	2136.3	2172.9	2266.6	2367.2	2467.8	2627.8	2803.8	2950.1	3050.7	3181.0
7.5°	1483.6	1507.6	1649.4	1712.2	1876.8	2059.7	2278.0	2499.8	2684.9	2849.5	2949.0
10°	1112.2	1200.2	1289.3	1409.3	1541.9	1730.5	1939.7	2184.3	2424.3	2588.9	2714.7
12.5°	893.8	963.6	1082.4	1211.6	1375.1	1499.6	1710.0	1952.3	2263.2	2424.3	2590.1
15°	676.7	765.8	900.7	1034.4	1207.0	1338.5	1551.1	1856.3	2256.3	2478.1	2620.9
17.5°	501.8	562.4	683.5	833.3	1009.3	1194.5	1481.4	1846.0	2332.9	2596.9	2744.4
20°	384.1	404.6	481.2	614.9	805.8	1048.1	1368.2	1890.6	2559.2	2886.1	3035.9
22.5°	310.9	320.0	349.8	442.3	627.5	920.1	1314.5	1921.4	2814.1	3232.5	3432.5
25°	270.9	268.6	288.0	328.0	490.4	800.1	1245.9	2038.0	3126.2	3639.4	3818.8
27.5°	246.9	246.9	256.0	284.6	406.9	722.4	1202.5	2121.4	3440.5	3997.1	4094.3
30°	234.3	236.6	262.9	272.0	338.3	629.8	1130.4	2206.0	3741.1	4225.7	4359.5
32.5°	217.2	208.0	202.3	225.2	284.6	546.4	1058.4	2241.5	3984.6	4505.8	4620.1
35°	166.9	162.3	169.2	186.3	244.6	475.5	978.4	2281.5	4264.6	4830.4	4853.3
37.5°	150.9	149.7	154.3	169.2	205.7	413.8	921.3	2271.2	4478.3	5099.0	5037.3
40°	139.4	139.4	142.9	155.5	184.0	370.3	861.8	2262.0	4685.2	5400.8	5220.2
42.5°	130.3	130.3	136.0	144.0	174.9	341.8	817.3	2249.5	4859.0	5585.9	5327.6
45°	117.7	121.2	130.3	138.3	177.2	322.3	784.1	2201.5	4918.4	5583.6	5276.2
47.5°	108.6	113.2	122.3	133.7	160.0	316.6	761.2	2159.2	4897.8	5446.5	5115.0
50°	98.3	104.0	116.6	136.0	136.0	305.2	737.2	2196.9	4883.0	5340.2	4960.7
52°	91.4	96.0	112.0	132.6	118.9	281.2	722.4	2270.0	4943.6	5326.5	4892.1
52.5°	90.3	93.7	108.6	130.3	113.2	276.6	712.1	2287.2	4963.0	5292.2	4939.0
55°	80.0	84.6	99.4	101.7	92.6	227.5	679.0	2326.0	4867.0	5224.7	4894.4
57.5°	75.4	77.7	88.0	83.4	80.0	171.5	584.1	2265.5	4322.9	4640.7	4553.8
60°	69.7	72.0	82.3	65.2	67.4	120.0	438.9	1967.1	3471.3	3866.8	4023.4
62.5°	67.4	66.3	77.7	52.6	57.2	86.9	309.8	1599.1	2674.7	3183.3	3454.2
65°	59.4	58.3	56.0	44.6	49.1	67.4	185.2	1043.6	1884.8	2408.3	2556.9
67.5°	45.7	48.0	41.1	35.4	41.1	52.6	102.9	467.5	988.7	1444.8	1564.8
70°	32.0	34.3	33.1	30.9	36.6	43.4	59.4	160.0	409.2	759.0	836.7
72.5°	19.4	24.0	25.1	26.3	32.0	37.7	42.3	51.4	108.6	268.6	333.8
75°	11.4	16.0	19.4	22.9	26.3	32.0	35.4	36.6	37.7	50.3	81.2
77.5°	8.0	11.4	17.1	21.7	26.3	32.0	37.7	40.0	37.7	35.4	37.7
80°	6.9	11.4	16.0	20.6	27.4	33.1	37.7	37.7	36.6	32.0	34.3
82.5°	6.9	11.4	17.1	21.7	26.3	32.0	36.6	37.7	34.3	32.0	33.1
85°	8.0	12.6	18.3	22.9	28.6	26.3	24.0	19.4	18.3	14.9	16.0
87.5°	8.0	11.4	11.4	12.6	13.7	13.7	13.7	12.6	10.3	9.1	9.1
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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CATALOG NUMBER: GALN-SA2B-730-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6	2921.6
2.5°	3192.4	3283.9	3280.5	3282.7	3269.0	3176.4	3131.9	3018.7	3050.7	3037.0
5°	3314.8	3405.0	3482.8	3473.6	3368.5	3242.7	3056.4	2880.4	2832.4	2761.5
7.5°	3192.4	3409.6	3481.6	3471.3	3315.9	3154.7	2857.5	2681.5	2598.1	2551.2
10°	2998.1	3249.6	3338.8	3357.0	3251.9	3007.3	2734.1	2451.8	2407.2	2326.0
12.5°	2887.3	3070.1	3125.0	3174.2	3137.6	2954.7	2640.4	2369.5	2307.8	2254.0
15°	2797.0	2905.6	2928.4	2984.4	3006.1	2907.8	2689.5	2458.6	2306.6	2300.9
17.5°	2880.4	2835.8	2752.4	2769.5	2838.1	2909.0	2816.4	2634.7	2487.2	2468.9
20°	3018.7	2822.1	2633.5	2675.8	2733.0	2950.1	3008.4	2880.4	2795.8	2749.0
22.5°	3177.6	2846.1	2595.8	2616.4	2725.0	3042.7	3319.3	3248.5	3090.7	3023.3
25°	3471.3	2912.4	2625.5	2639.2	2787.8	3171.9	3600.5	3653.1	3559.4	3545.6
27.5°	3758.2	3083.9	2690.7	2659.8	2819.8	3297.6	3770.8	4053.1	3888.5	3856.5
30°	3904.5	3223.3	2787.8	2735.2	2952.4	3374.2	3873.7	4313.7	4169.7	4154.9
32.5°	4128.6	3350.2	2863.3	2795.8	3026.7	3469.1	4065.7	4598.4	4458.9	4384.6
35°	4222.3	3488.5	3029.0	2950.1	3239.3	3601.6	4164.0	4852.1	4808.7	4736.7
37.5°	4402.9	3637.1	3224.5	3219.9	3496.5	3774.2	4341.2	5197.3	5189.3	5064.7
40°	4417.8	3799.4	3533.1	3677.1	3894.3	4074.9	4496.6	5293.3	5423.6	5339.0
42.5°	4440.6	4084.0	4066.9	4185.7	4372.0	4333.2	4502.3	5316.2	5515.1	5464.8
45°	4450.9	4368.6	4609.8	4829.2	4907.0	4671.5	4448.6	5272.7	5563.1	5437.3
47.5°	4368.6	4613.2	5048.7	5472.8	5495.6	4879.5	4425.8	5228.2	5591.6	5508.2
50°	4380.0	4766.4	5428.2	5807.7	5724.2	5063.6	4390.3	5200.7	5576.8	5520.8
52°	4352.6	4769.8	5481.9	5800.8	5742.5	4961.8	4329.8	5095.6	5563.1	5603.1
52.5°	4383.5	4749.2	5425.9	5805.4	5729.9	5012.1	4321.7	5153.9	5571.1	5489.9
55°	4277.2	4504.6	5097.9	5259.0	5247.6	4549.2	4076.0	4960.7	5361.9	5363.0
57.5°	3865.7	3904.5	3998.3	3994.8	3942.3	3576.5	3486.2	4561.8	4780.1	4661.2
60°	3406.2	2858.7	2606.1	2503.2	2444.9	2385.5	3083.9	4173.2	4193.7	4143.4
62.5°	2943.3	1982.0	1645.9	1617.4	1631.1	1848.3	2981.0	4018.9	3895.4	3786.8
65°	2375.2	1444.8	1195.6	1157.9	1291.6	1525.9	2412.9	3081.6	2891.8	2801.5
67.5°	1491.6	1053.9	808.1	737.2	898.4	1050.4	1585.4	1936.3	1723.7	1599.1
70°	884.7	588.7	365.8	328.0	369.2	560.1	888.1	965.8	799.0	735.0
72.5°	348.6	216.0	101.7	86.9	90.3	196.6	326.9	318.9	241.2	214.9
75°	93.7	65.2	35.4	28.6	24.0	36.6	52.6	34.3	12.6	16.0
77.5°	43.4	38.9	30.9	24.0	18.3	13.7	6.9	2.3	2.3	1.1
80°	37.7	33.1	28.6	24.0	18.3	11.4	5.7	1.1	1.1	1.1
82.5°	35.4	30.9	26.3	21.7	17.1	11.4	5.7	1.1	0.0	0.0
85°	14.9	19.4	21.7	20.6	18.3	11.4	5.7	1.1	0.0	0.0
87.5°	8.0	6.9	5.7	4.6	3.4	2.3	2.3	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

(END OF REPORT)