

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: P528651

Luminaire Tested: **GALN-SA3D-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528651  
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-SA3D-730-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 11627 lumens  
Efficiency: N/A  
Efficacy: 63.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

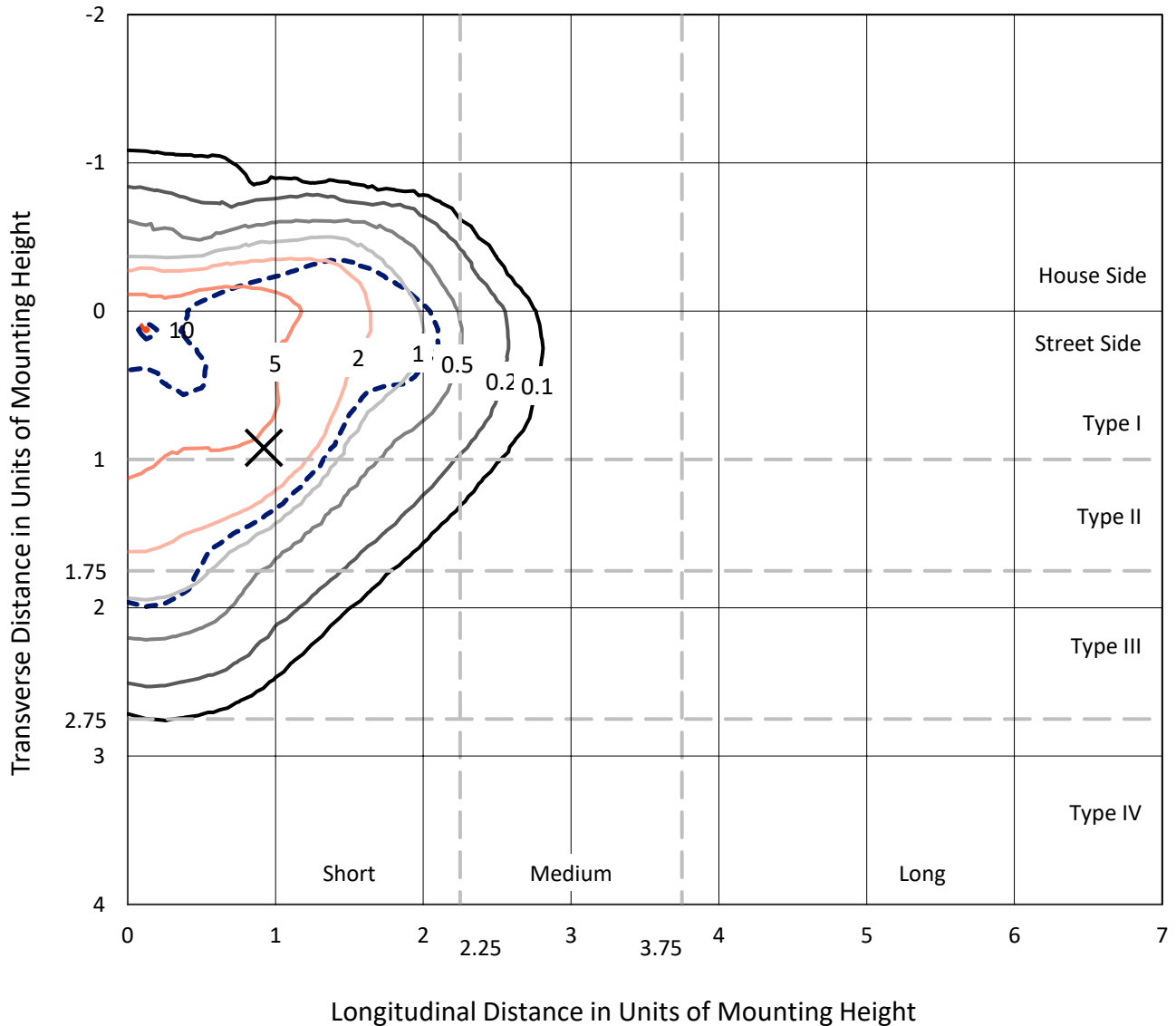
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

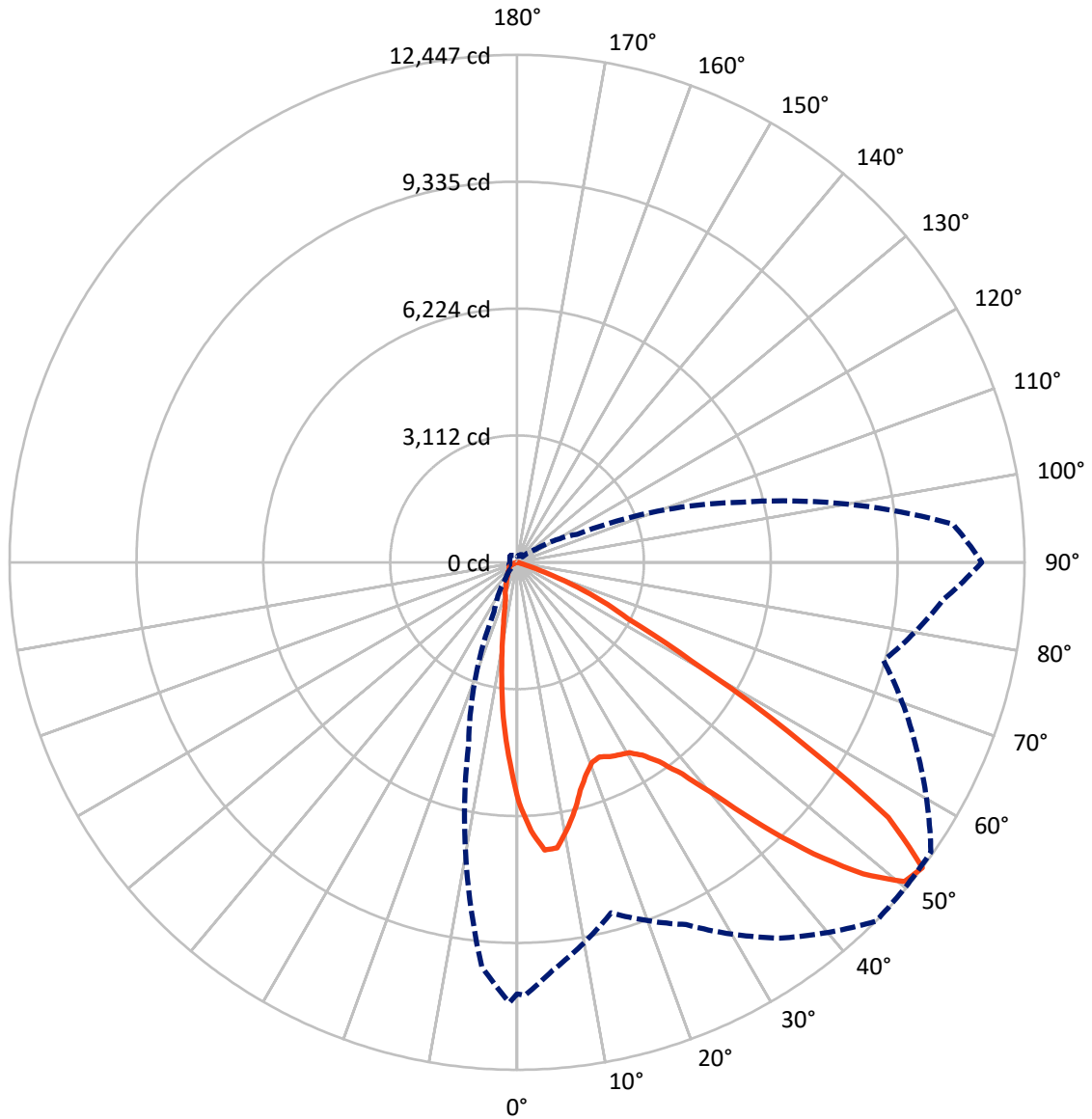
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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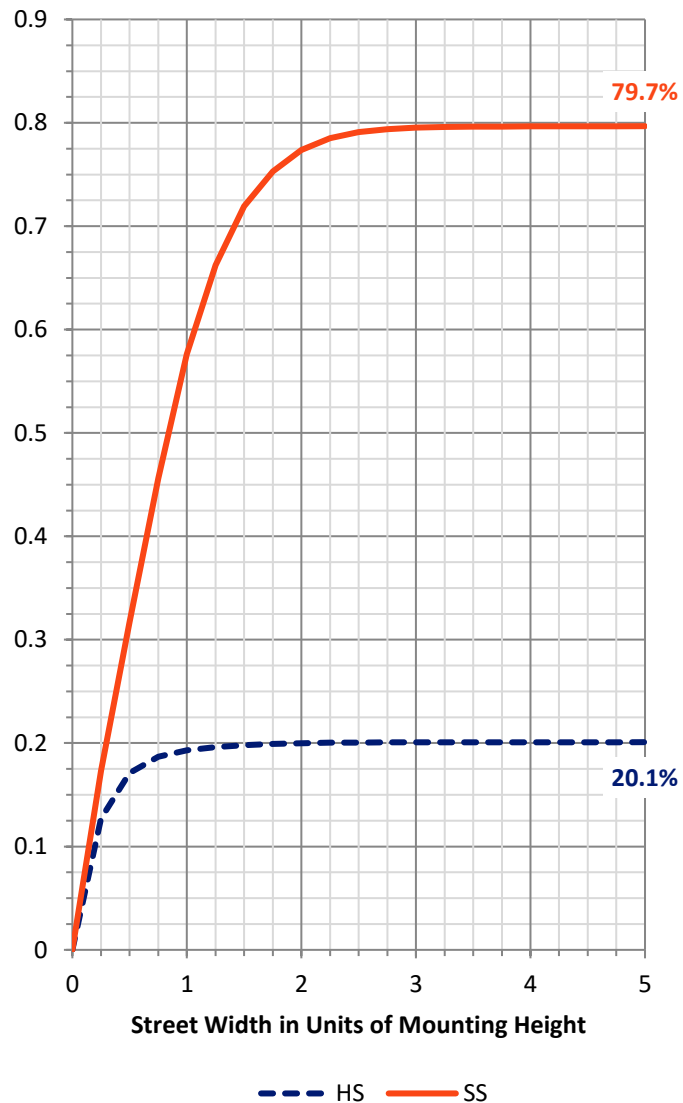
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2359.7	0.0	2359.7
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	9267.3	0.0	9267.3
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	11627.0	0.0	11627.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.9	3.7
10°-20°	848.3	7.3
20°-30°	1290.9	11.1
30°-40°	1929.4	16.6
40°-50°	2747.7	23.6
50°-60°	2953.7	25.4
60°-70°	1308.8	11.3
70°-80°	105.9	0.9
80°-90°	12.3	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°	11627.0	100.0
0°-180°	11627.0	100.0

**Coefficient of Utilization**



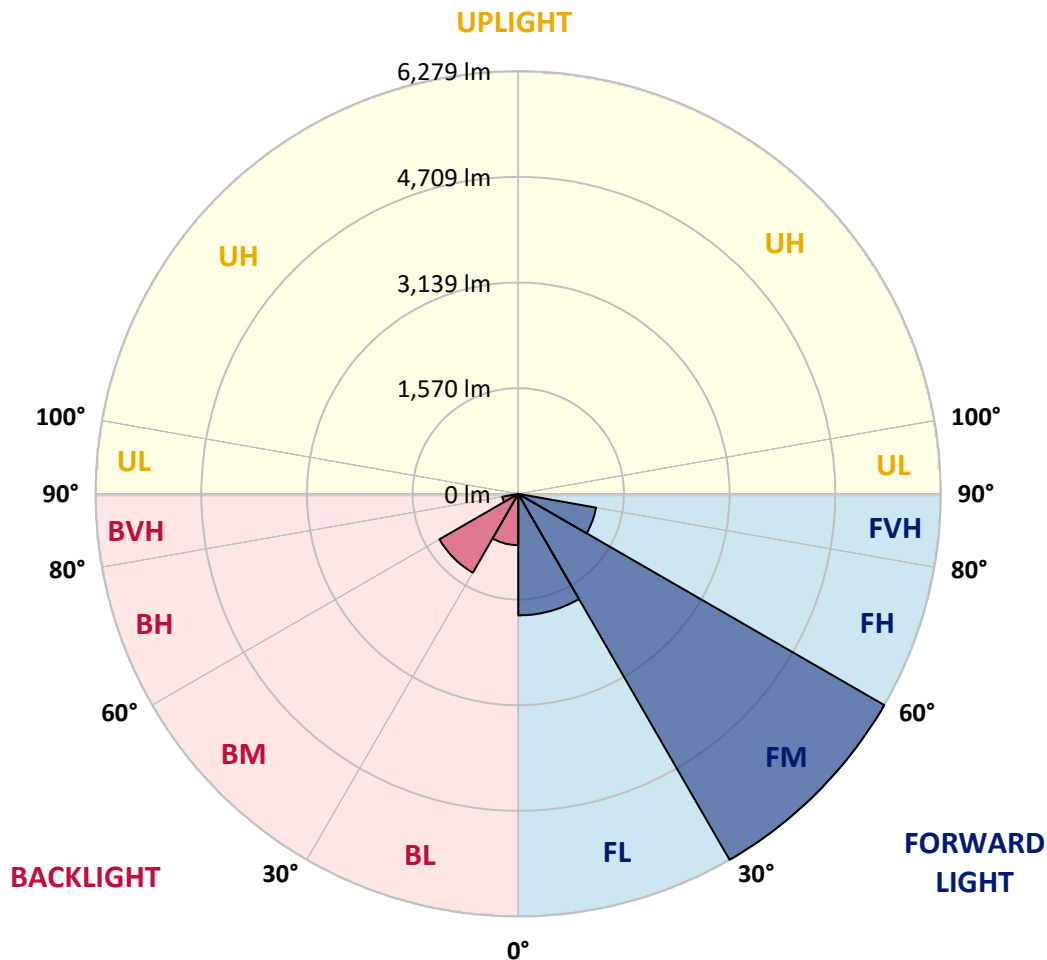
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1805.9	15.5			
FM (30°-60°)	6278.9	54.0			
FH (60°-80°)	1173.3	10.1			G1/1800
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	763.2	6.6	B2/1000		
BM (30°-60°)	1351.8	11.6	B2/2500		
BH (60°-80°)	241.4	2.1	B1/500		G1/500
BVH (80°-90°)	3.2	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°	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4
2.5°	6238.5	6256.7	6357.4	6483.1	6549.5	6700.4	6595.2	6622.6	6565.5	6364.2	6206.4
5°	6048.6	6046.4	6174.4	6485.4	6780.4	7080.0	7089.2	6929.1	6647.8	6339.1	5897.7
7.5°	5476.9	5566.1	5698.8	6195.0	6741.6	6965.7	7073.1	6885.6	6453.4	6012.1	5534.1
10°	5044.7	5090.5	5314.6	5913.7	6313.9	6613.5	6679.8	6572.3	6240.7	5689.6	5154.5
12.5°	4795.5	4818.3	5081.3	5584.4	6007.5	6229.3	6261.3	6311.6	6073.8	5557.0	4914.4
15°	4797.8	4816.0	5170.5	5591.3	5758.2	5698.8	5804.0	5801.7	5904.6	5531.8	5115.6
17.5°	5143.1	5163.6	5483.8	5691.9	5618.7	5479.2	5472.4	5577.6	5794.8	5845.1	5419.8
20°	5737.6	5785.7	6021.2	6009.8	5598.1	5316.9	5239.1	5319.2	5824.5	6110.4	6032.6
22.5°	6538.0	6604.3	6769.0	6453.4	5691.9	5207.1	5181.9	5337.4	6021.2	6702.7	6727.8
25°	7466.5	7578.5	7658.6	7253.8	6025.8	5396.9	5278.0	5545.5	6286.5	7345.3	7612.8
27.5°	8081.6	8198.3	8180.0	7601.4	6249.9	5447.2	5346.6	5595.9	6517.4	7498.5	8074.8
30°	8561.9	8632.8	8760.8	7788.9	6474.0	5589.0	5417.5	5808.5	6592.9	7763.8	8632.8
32.5°	9122.1	9170.2	9179.3	8120.5	6819.3	5767.4	5637.0	6073.8	6926.8	8017.6	9126.7
35°	9687.0	9757.9	9609.2	8529.8	7032.0	6099.0	6002.9	6533.5	7194.3	8280.6	9671.0
37.5°	10299.9	10336.4	9993.4	8699.1	7336.1	6638.6	6586.0	7029.7	7658.6	8756.2	10274.7
40°	10814.4	10848.7	10402.8	8907.2	7656.3	7393.3	7528.2	7976.4	8289.7	9065.0	10576.6
42.5°	11100.2	11180.3	10540.0	8792.8	8298.9	8248.6	8847.7	9005.5	9021.5	9151.9	10846.4
45°	11178.0	11141.4	10313.6	8886.6	8861.4	9655.0	10199.2	10407.3	9748.7	9311.9	10915.0
47.5°	10819.0	10867.0	9979.7	8804.3	9600.1	10720.6	11425.0	11811.4	10290.7	9172.4	10745.8
50°	10528.5	10466.8	9872.2	8744.8	9799.0	11223.7	12310.0	12396.9	10789.2	9344.0	10560.5
52.5°	10585.7	10624.6	10043.7	8902.6	9803.6	11253.5	12447.2	12387.7	10805.2	9305.1	10494.2
55°	10706.9	10535.4	9970.5	8555.0	9147.3	10423.3	11047.6	10956.2	9972.8	8891.2	10331.9
57.5°	9238.8	9504.0	9167.9	7638.0	7507.6	7852.9	7841.5	8122.8	7439.0	7651.7	9405.7
60°	7498.5	7544.2	7670.0	6533.5	5195.7	5076.7	4912.1	4733.7	5005.9	6542.6	8555.0
62.5°	6595.2	6540.3	6988.5	5943.5	3668.1	3071.2	3043.8	3153.5	3862.4	6240.7	8024.5
65°	4793.2	4861.8	5186.5	4612.5	2753.3	2344.0	2302.8	2627.6	3126.1	5001.3	6124.1
67.5°	2927.1	3059.8	3089.5	2844.8	1868.3	1484.1	1424.7	1719.7	2257.1	3235.9	3590.3
70°	1351.5	1511.6	1662.5	1552.8	1081.7	610.6	576.3	722.6	1138.8	1861.5	1904.9
72.5°	409.3	411.6	576.3	601.4	349.9	137.2	121.2	160.1	386.5	615.2	647.2
75°	29.7	32.0	77.8	89.2	66.3	34.3	36.6	43.4	82.3	137.2	102.9
77.5°	2.3	2.3	2.3	11.4	20.6	22.9	29.7	34.3	43.4	50.3	45.7
80°	2.3	0.0	2.3	9.1	16.0	22.9	27.4	32.0	34.3	38.9	34.3
82.5°	0.0	0.0	0.0	6.9	16.0	22.9	25.2	34.3	38.9	45.7	38.9
85°	0.0	0.0	0.0	6.9	16.0	25.2	22.9	11.4	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°	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4
2.5°	6233.9	6144.7	5941.2	5838.3	5595.9	5561.6	5323.7	5284.8	5204.8	5161.4	5056.2
5°	5703.3	5595.9	5264.3	4985.3	4660.5	4434.1	4260.4	4102.6	4011.1	3926.5	3965.4
7.5°	5271.1	4957.8	4589.7	4123.1	3748.1	3505.7	3240.4	3023.2	2895.1	2808.2	2828.8
10°	4818.3	4614.8	4102.6	3578.9	3126.1	2954.6	2746.5	2579.5	2398.9	2243.4	2170.2
12.5°	4676.6	4374.7	3732.1	3199.3	2856.2	2689.3	2451.5	2259.4	2028.4	1838.6	1772.3
15°	4701.7	4411.3	3631.5	3062.1	2657.3	2369.1	2085.6	1847.8	1593.9	1461.3	1392.7
17.5°	5111.0	4607.9	3697.8	2918.0	2380.6	1980.4	1630.5	1328.6	1138.8	1001.6	971.9
20°	5614.2	5033.3	3839.6	2812.8	2154.2	1575.6	1191.4	930.7	772.9	750.1	743.2
22.5°	6350.5	5728.5	4143.7	2741.9	1877.5	1228.0	816.4	676.9	633.4	628.9	631.2
25°	7379.6	6599.8	4475.3	2682.4	1669.4	946.7	667.8	574.0	560.3	553.4	564.8
27.5°	7825.5	7125.7	4651.4	2554.4	1479.6	853.0	658.6	569.4	530.5	519.1	526.0
30°	8376.6	7475.6	4928.1	2334.8	1200.6	702.1	615.2	619.7	601.4	544.3	526.0
32.5°	9108.4	7912.4	5067.6	2179.3	1072.5	580.9	450.5	413.9	461.9	471.1	487.1
35°	9577.2	8356.1	5138.5	2087.9	1006.2	496.2	381.9	347.6	336.2	338.4	347.6
37.5°	10448.5	8955.2	5227.7	1991.8	955.9	432.2	345.3	313.3	297.3	297.3	306.4
40°	10969.9	9430.9	5348.9	1939.2	905.6	393.3	313.3	285.9	272.1	272.1	276.7
42.5°	11100.2	9666.4	5307.7	1920.9	848.4	384.2	285.9	265.3	249.3	247.0	244.7
45°	11333.5	10025.4	5314.6	1900.3	789.0	349.9	269.8	247.0	224.1	221.8	219.5
47.5°	11589.6	10283.8	5328.3	1820.3	731.8	292.7	281.3	228.7	201.2	196.7	196.7
50°	11370.1	10489.7	5447.2	1740.3	658.6	237.8	276.7	215.0	178.4	171.5	173.8
52.5°	11397.5	10732.1	5698.8	1628.2	567.1	189.8	224.1	203.5	162.4	150.9	153.2
55°	10958.5	10475.9	5733.1	1509.3	443.6	146.4	171.5	178.4	137.2	132.6	132.6
57.5°	9433.1	8870.6	5058.5	1223.5	292.7	121.2	123.5	155.5	118.9	114.3	116.6
60°	8072.5	7121.2	4070.5	807.2	182.9	96.0	89.2	157.8	105.2	102.9	109.8
62.5°	7359.0	5852.0	3087.2	500.8	125.8	73.2	61.7	128.1	91.5	91.5	100.6
65°	5316.9	3931.0	1795.2	263.0	89.2	57.2	45.7	73.2	75.5	77.8	82.3
67.5°	3293.0	1985.0	756.9	128.1	59.5	38.9	29.7	45.7	50.3	50.3	54.9
70°	1625.9	791.2	251.6	73.2	45.7	32.0	20.6	25.2	25.2	22.9	25.2
72.5°	503.1	237.8	64.0	45.7	32.0	20.6	11.4	9.1	4.6	0.0	2.3
75°	57.2	45.7	41.2	32.0	20.6	9.1	2.3	0.0	0.0	0.0	0.0
77.5°	34.3	38.9	38.9	32.0	20.6	6.9	0.0	0.0	0.0	0.0	0.0
80°	27.4	29.7	32.0	29.7	18.3	9.1	0.0	0.0	0.0	0.0	0.0
82.5°	34.3	38.9	43.4	38.9	25.2	11.4	4.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.9	2.3	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°	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4
2.5°	5012.7	4962.4	5033.3	4928.1	4925.8	4928.1	4898.4	4870.9	4914.4	5031.0	5042.4
5°	3825.9	3933.3	3967.6	4079.7	4017.9	3926.5	3944.8	3883.0	4034.0	4100.3	4047.7
7.5°	2785.4	2778.5	3009.5	3023.2	3052.9	3055.2	3050.6	2929.4	2805.9	2833.4	2915.7
10°	2161.0	2044.4	2156.5	2145.0	2218.2	2197.6	2227.4	2097.0	2140.5	2140.5	2193.1
12.5°	1760.9	1637.4	1616.8	1587.1	1616.8	1628.2	1639.7	1614.5	1687.7	1722.0	1758.6
15°	1344.7	1276.0	1257.8	1200.6	1209.7	1241.7	1269.2	1280.6	1257.8	1310.3	1314.9
17.5°	976.5	974.2	985.6	983.3	974.2	967.3	965.0	935.3	926.2	930.7	949.0
20°	740.9	759.2	798.1	837.0	857.6	832.4	798.1	747.8	727.2	731.8	734.1
22.5°	633.4	660.9	713.5	756.9	777.5	731.8	670.0	626.6	617.4	615.2	612.9
25°	574.0	606.0	644.9	658.6	656.3	628.9	583.1	564.8	560.3	555.7	535.1
27.5°	542.0	553.4	560.3	576.3	583.1	564.8	553.4	526.0	521.4	521.4	507.7
30°	523.7	516.8	526.0	514.5	523.7	510.0	512.2	512.2	500.8	505.4	505.4
32.5°	487.1	489.4	489.4	466.5	473.4	457.4	473.4	487.1	489.4	491.7	510.0
35°	356.7	397.9	418.5	418.5	425.3	413.9	411.6	395.6	375.0	354.5	345.3
37.5°	313.3	329.3	356.7	372.8	384.2	375.0	354.5	329.3	317.9	308.7	299.6
40°	279.0	292.7	311.0	329.3	352.2	340.7	308.7	297.3	283.6	283.6	274.4
42.5°	251.6	258.4	269.8	297.3	322.4	299.6	276.7	267.6	260.7	258.4	256.1
45°	226.4	228.7	240.1	263.0	292.7	269.8	247.0	235.5	237.8	240.1	237.8
47.5°	203.5	208.1	215.0	242.4	260.7	249.3	224.1	217.2	217.2	217.2	219.5
50°	176.1	187.5	201.2	224.1	237.8	231.0	210.4	201.2	196.7	196.7	199.0
52.5°	157.8	166.9	185.2	212.7	231.0	219.5	199.0	185.2	176.1	173.8	178.4
55°	137.2	153.2	182.9	203.5	228.7	217.2	194.4	178.4	162.4	160.1	160.1
57.5°	123.5	148.6	176.1	201.2	221.8	212.7	194.4	173.8	153.2	150.9	150.9
60°	116.6	144.1	171.5	194.4	221.8	208.1	192.1	169.2	146.4	146.4	144.1
62.5°	109.8	134.9	162.4	185.2	212.7	201.2	185.2	162.4	139.5	139.5	134.9
65°	91.5	116.6	134.9	155.5	185.2	173.8	157.8	141.8	123.5	118.9	121.2
67.5°	64.0	80.0	98.3	118.9	137.2	132.6	125.8	114.3	98.3	96.0	93.8
70°	32.0	43.4	59.5	80.0	96.0	91.5	86.9	77.8	68.6	66.3	66.3
72.5°	4.6	13.7	25.2	36.6	50.3	52.6	50.3	48.0	45.7	43.4	45.7
75°	0.0	0.0	0.0	9.1	20.6	25.2	29.7	34.3	34.3	29.7	36.6
77.5°	0.0	0.0	0.0	0.0	2.3	11.4	22.9	29.7	36.6	32.0	43.4
80°	0.0	0.0	0.0	0.0	2.3	13.7	22.9	32.0	36.6	32.0	45.7
82.5°	0.0	0.0	0.0	0.0	2.3	16.0	22.9	29.7	34.3	32.0	41.2
85°	0.0	0.0	0.0	0.0	6.9	13.7	9.1	4.6	2.3	2.3	6.9
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



REPORT NUMBER: P528651  
 CATALOG NUMBER: GALN-SA3D-730-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4	5895.4
2.5°	5106.5	5268.8	5442.6	5509.0	5714.8	5870.3	5975.5	6201.9	6236.2	6238.5
5°	4102.6	4184.9	4482.2	4621.7	4928.1	5165.9	5419.8	5785.7	6030.4	6048.6
7.5°	2915.7	3144.4	3270.2	3633.8	4011.1	4383.8	4761.2	5186.5	5470.1	5476.9
10°	2346.3	2494.9	2719.0	2991.2	3309.0	3688.6	4191.7	4685.7	4973.8	5044.7
12.5°	1888.9	2149.6	2405.7	2687.0	2929.4	3215.3	3757.3	4415.9	4653.7	4795.5
15°	1454.4	1692.2	1994.1	2323.4	2597.8	2979.7	3597.2	4349.5	4749.7	4797.8
17.5°	1072.5	1285.2	1564.2	1875.2	2286.8	2828.8	3624.6	4685.7	5063.0	5143.1
20°	770.7	894.1	1113.7	1475.0	1998.7	2652.7	3652.1	5026.4	5600.4	5737.6
22.5°	610.6	660.9	805.0	1125.1	1676.2	2467.5	3846.4	5678.2	6339.1	6538.0
25°	530.5	558.0	626.6	887.3	1472.7	2449.2	4157.4	6460.3	7322.4	7466.5
27.5°	512.2	516.8	576.3	814.1	1362.9	2328.0	4276.4	7016.0	7935.3	8081.6
30°	539.7	612.9	617.4	688.3	1159.4	2087.9	4338.1	7553.4	8454.4	8561.9
32.5°	466.5	443.6	459.7	532.8	1019.9	1948.4	4454.7	8022.2	9046.7	9122.1
35°	324.7	340.7	377.3	461.9	891.9	1802.0	4484.5	8539.0	9609.2	9687.0
37.5°	299.6	308.7	338.4	393.3	784.4	1719.7	4443.3	8916.3	10192.4	10299.9
40°	279.0	290.4	306.4	356.7	704.3	1628.2	4386.1	9257.1	10549.1	10814.4
42.5°	263.0	272.1	285.9	340.7	635.7	1536.7	4306.1	9737.3	10869.3	11100.2
45°	244.7	258.4	274.4	331.6	596.9	1475.0	4246.6	9707.6	11054.5	11178.0
47.5°	226.4	249.3	267.6	308.7	585.4	1445.3	4271.8	9595.5	10903.6	10819.0
50°	208.1	237.8	269.8	256.1	558.0	1385.8	4301.5	9748.7	10544.5	10528.5
52.5°	192.1	226.4	251.6	210.4	496.2	1328.6	4589.7	9950.0	10798.4	10585.7
55°	169.2	203.5	201.2	169.2	402.5	1285.2	4816.0	9954.5	10626.9	10706.9
57.5°	153.2	180.7	157.8	141.8	297.3	1074.8	4447.9	8346.9	9097.0	9238.8
60°	141.8	176.1	118.9	112.1	194.4	775.2	3883.0	6464.8	7230.9	7498.5
62.5°	130.3	166.9	93.8	91.5	134.9	551.1	3192.4	5410.6	6231.6	6595.2
65°	114.3	118.9	75.5	70.9	96.0	297.3	1943.8	3725.2	4658.3	4793.2
67.5°	93.8	91.5	61.7	57.2	64.0	144.1	857.6	1866.0	2700.7	2927.1
70°	75.5	75.5	52.6	45.7	45.7	66.3	224.1	743.2	1221.2	1351.5
72.5°	54.9	57.2	41.2	36.6	34.3	32.0	36.6	148.6	320.2	409.3
75°	48.0	50.3	41.2	32.0	25.2	20.6	16.0	13.7	18.3	29.7
77.5°	52.6	52.6	43.4	29.7	22.9	16.0	9.1	4.6	4.6	2.3
80°	66.3	68.6	57.2	38.9	27.4	18.3	11.4	4.6	2.3	2.3
82.5°	70.9	77.8	64.0	48.0	34.3	20.6	11.4	2.3	0.0	0.0
85°	18.3	29.7	50.3	43.4	34.3	20.6	11.4	2.3	0.0	0.0
87.5°	0.0	2.3	6.9	6.9	9.1	9.1	6.9	2.3	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)