

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: P452319

Luminaire Tested: **GALN-SA3B-730-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11110 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

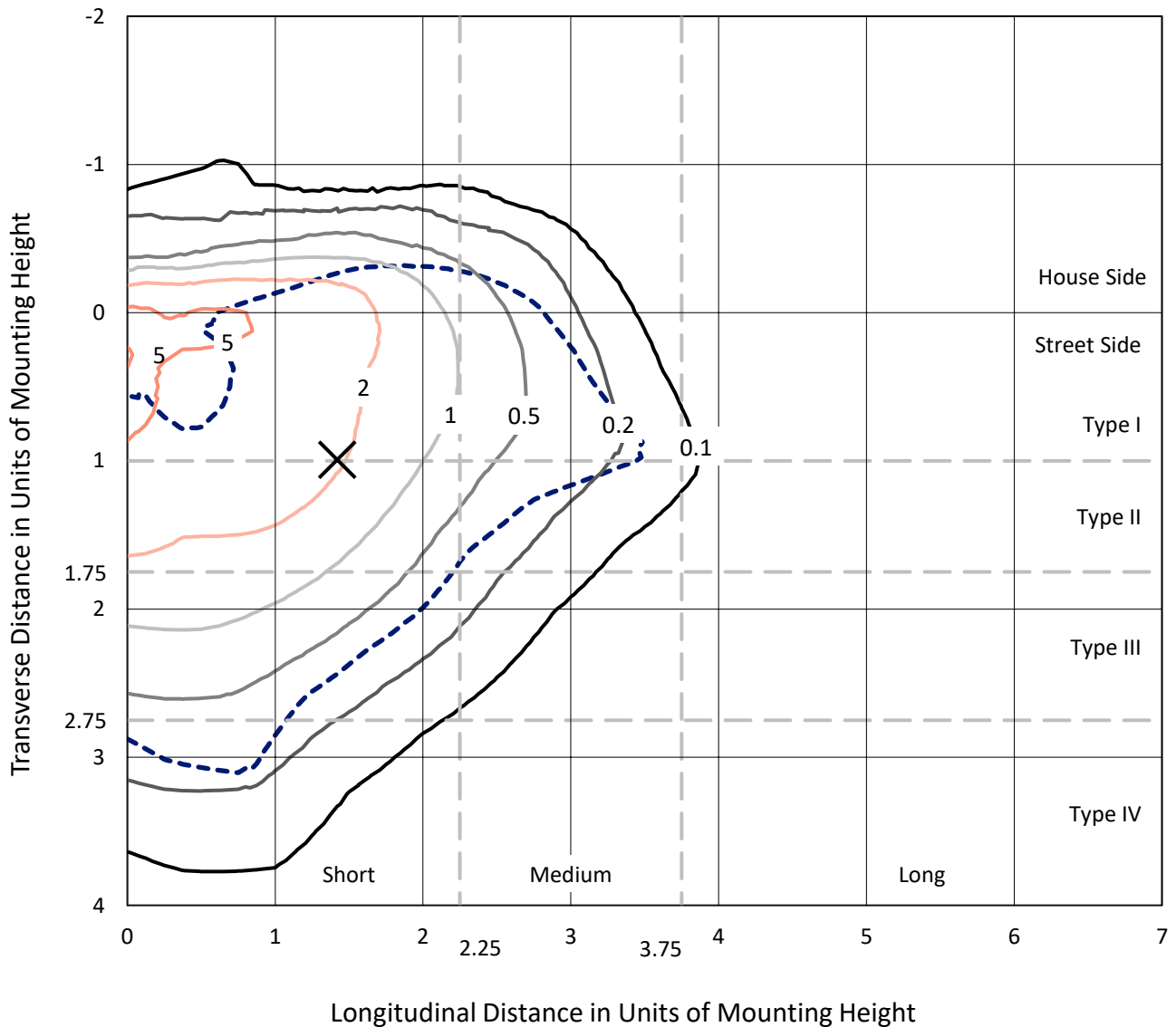
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

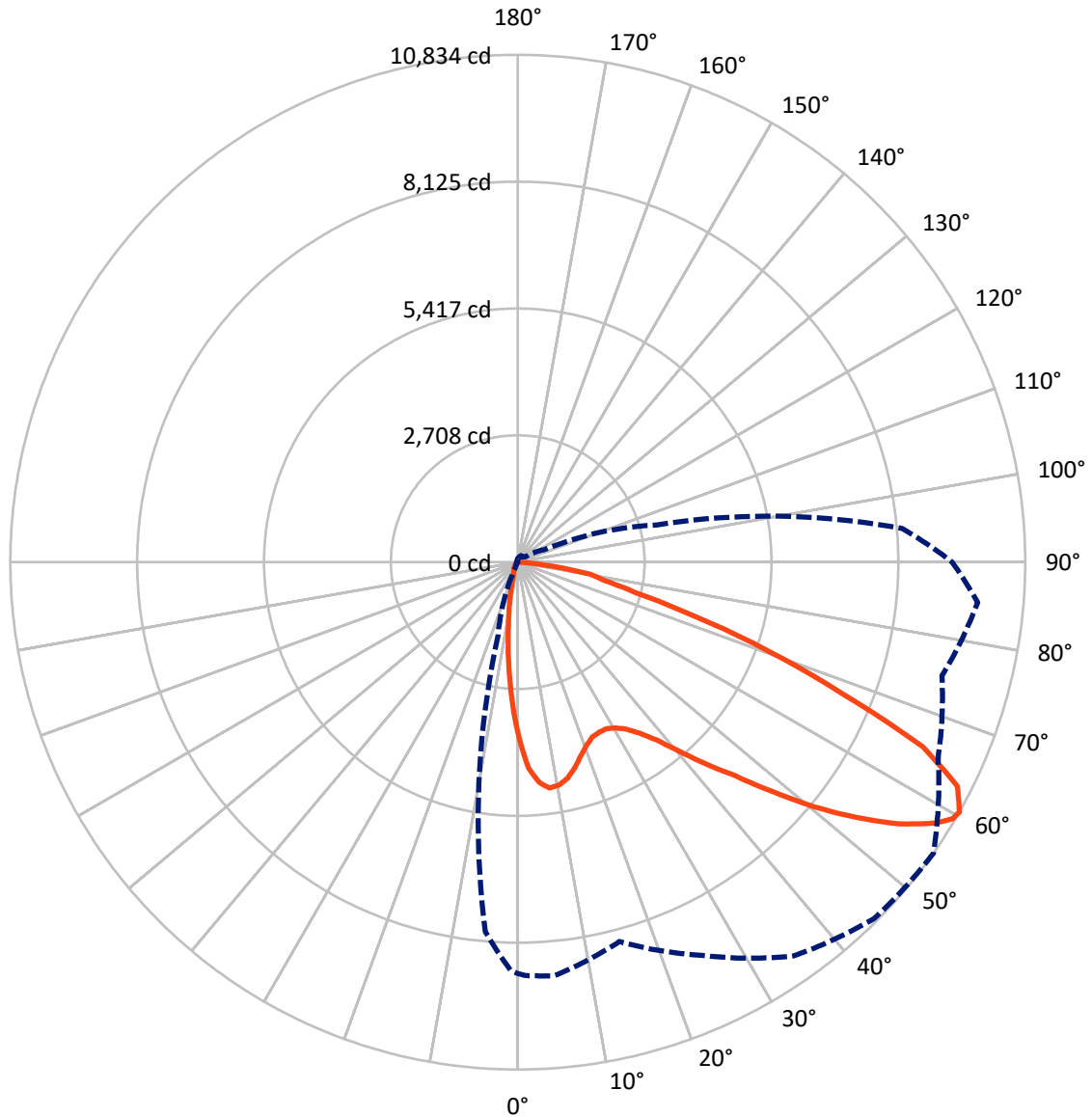
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1648.8	0.0	1648.8
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	9461.2	0.0	9461.2
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	11110.0	0.0	11110.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.6	2.5
10°-20°	548.6	4.9
20°-30°	812.0	7.3
30°-40°	1210.3	10.9
40°-50°	1772.5	16.0
50°-60°	2559.0	23.0
60°-70°	2691.9	24.2
70°-80°	1107.4	10.0
80°-90°	129.7	1.2
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°	11110.0	100.0
0°-180°	11110.0	100.0

**Coefficient of Utilization**



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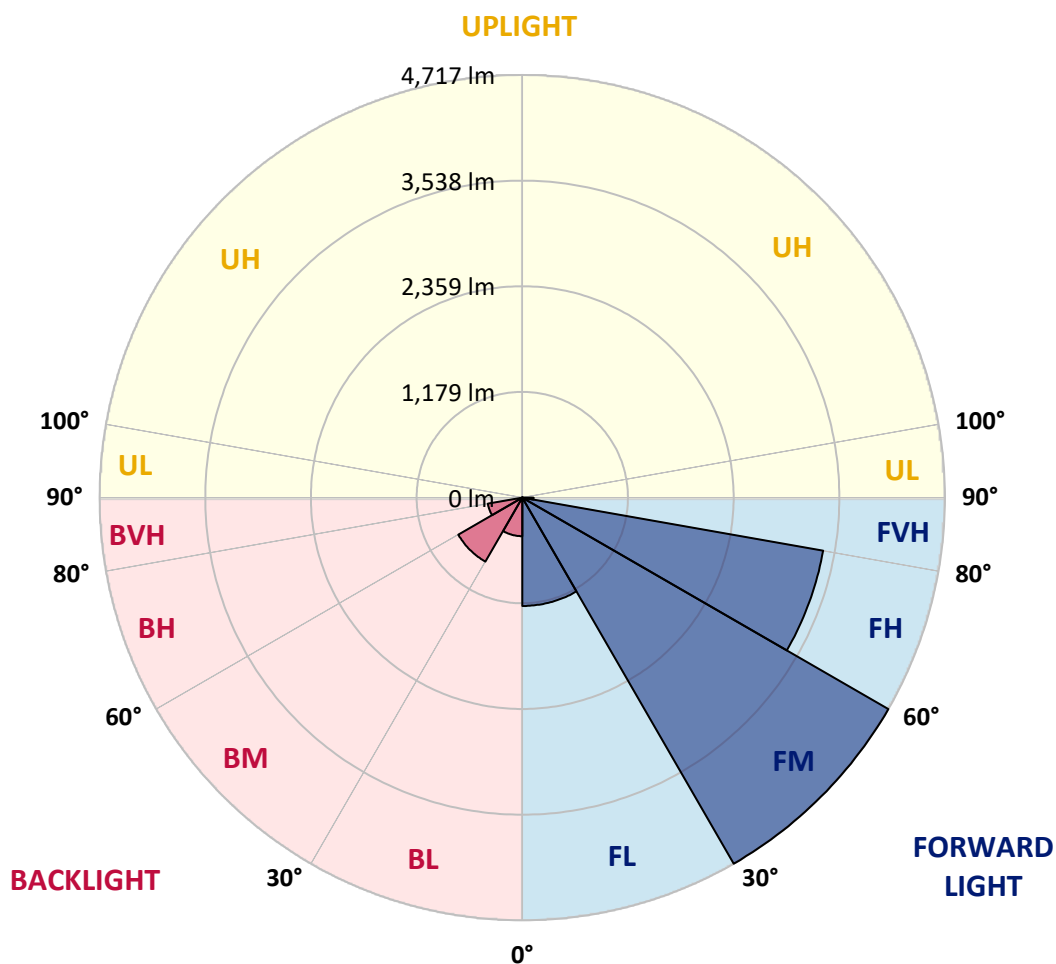
CATALOG NUMBER: GALN-SA3B-730-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1208.9	10.9			
FM	(30°-60°)	4717.3	42.5			
FH	(60°-80°)	3409.1	30.7			G2/5000
FVH	(80°-90°)	125.9	1.1			G2/225
BL	(0°-30°)	430.2	3.9	B1/500		
BM	(30°-60°)	824.6	7.4	B1/1000		
BH	(60°-80°)	390.3	3.5	B1/500		G1/500
BVH	(80°-90°)	3.8	0.0			G0/10
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8
2.5°	4109.9	4103.0	4163.7	4262.9	4363.0	4415.2	4404.9	4400.6	4317.7	4256.9	4129.5
5°	4101.3	4136.4	4245.0	4513.5	4717.0	4815.4	4844.4	4722.2	4560.5	4326.2	4037.2
7.5°	3855.9	3899.5	4076.5	4496.4	4858.1	5071.9	5064.2	4868.4	4534.9	4172.3	3760.1
10°	3551.4	3602.8	3810.6	4320.2	4789.7	5071.9	5087.3	4839.3	4424.6	3959.4	3525.8
12.5°	3336.8	3397.5	3627.6	4156.0	4613.5	4891.5	4909.4	4729.8	4341.6	3877.3	3398.4
15°	3264.1	3321.4	3554.9	4073.1	4426.3	4575.9	4571.6	4552.8	4309.1	3896.9	3405.2
17.5°	3389.0	3436.0	3699.4	4110.7	4251.0	4235.6	4257.8	4348.4	4316.0	4062.0	3620.7
20°	3711.4	3759.2	4042.3	4226.2	4116.7	4019.2	4029.5	4180.8	4379.2	4372.4	3957.6
22.5°	4155.2	4236.4	4493.0	4450.2	4098.7	3885.0	3863.6	4060.3	4487.0	4729.8	4412.6
25°	4717.0	4799.1	4999.2	4807.7	4186.8	3853.3	3833.6	4023.5	4617.8	5078.7	4924.8
27.5°	5189.1	5251.5	5450.7	5155.7	4316.8	3867.0	3834.5	4028.6	4723.9	5375.5	5356.7
30°	5567.0	5613.2	5730.4	5318.2	4428.8	3926.9	3889.2	4103.9	4770.9	5520.0	5706.4
32.5°	5871.5	5949.3	5986.1	5491.8	4589.6	4039.7	3975.6	4248.4	4885.5	5698.7	6073.3
35°	6219.5	6309.3	6262.3	5657.7	4801.7	4215.9	4137.2	4482.7	5059.1	5863.8	6499.2
37.5°	6660.8	6764.3	6580.4	5832.1	5025.7	4481.0	4444.2	4811.9	5322.5	6099.8	6955.8
40°	7117.4	7177.3	6889.1	6044.2	5301.1	4866.7	4901.7	5301.1	5667.1	6382.9	7441.5
42.5°	7474.0	7530.5	7206.4	6222.1	5582.4	5324.2	5470.4	5891.1	6062.2	6672.8	7804.1
45°	7746.8	7794.7	7426.1	6416.2	5962.1	5986.9	6263.1	6499.2	6458.1	6849.8	8083.8
47.5°	7958.9	8000.0	7595.5	6624.9	6530.8	6797.6	7220.1	7320.1	6868.6	7041.3	8336.9
50°	8046.1	8058.1	7648.5	6890.8	7176.4	7830.6	8271.0	8210.3	7338.9	7254.3	8606.3
52.5°	8159.9	8157.3	7799.8	7143.9	7783.6	8754.2	9193.7	9056.1	7870.8	7573.2	8909.0
55°	8458.3	8461.7	8123.9	7503.1	8301.0	9499.9	9970.2	9870.2	8431.8	8112.0	9262.2
57.5°	8820.9	8833.7	8584.9	7923.0	8795.2	10040.3	10550.0	10511.5	9190.3	8711.4	9595.7
59°	8867.9	8893.6	8802.9	8218.9	9088.6	10206.2	10748.4	10786.0	9596.5	9106.5	9776.1
60°	8782.4	8825.2	8866.2	8386.5	9260.4	10266.1	10760.4	10833.9	9901.8	9375.0	9858.2
62.5°	8409.6	8477.1	8683.2	8902.1	9475.1	10079.7	10378.1	10532.1	10279.8	10080.5	9865.9
65°	7921.3	7956.3	8253.9	8993.6	9058.6	9209.1	9301.5	9499.0	9825.7	10352.5	9512.7
67.5°	7120.9	7224.3	7588.6	8462.6	7829.8	7651.9	7628.8	7432.1	8280.4	9704.3	8642.2
70°	5882.6	5928.8	6377.7	6937.9	5909.1	5635.5	5744.9	5671.4	6418.8	8354.0	6955.8
72.5°	4448.5	4552.8	4991.5	5530.3	4020.9	3666.0	3967.9	3940.5	4821.3	6713.8	4778.6
75°	3164.9	3232.5	3791.7	4327.9	2816.0	2385.9	2494.5	2596.2	3365.9	5301.1	2823.7
77.5°	2174.7	2232.8	2652.7	2862.2	2054.1	1967.7	1800.1	1898.4	2205.4	3145.3	1536.7
80°	1311.8	1309.2	1585.5	1636.8	1430.7	1661.6	1393.9	1564.9	1333.2	1346.0	595.2
82.5°	851.7	843.2	969.7	1057.0	796.1	837.2	561.8	809.8	868.8	375.4	188.1
85°	381.4	397.6	466.1	614.9	348.9	185.6	114.6	248.8	370.3	189.0	0.0
87.5°	39.3	30.8	82.1	149.7	47.9	5.1	17.1	8.6	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°	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8
2.5°	4070.5	4020.9	3873.0	3734.5	3615.6	3470.2	3376.1	3228.2	3138.4	3111.0	3115.3
5°	3907.2	3764.4	3483.0	3258.1	3007.6	2864.8	2647.6	2438.9	2326.0	2284.1	2265.3
7.5°	3565.1	3412.1	3072.6	2719.4	2450.9	2200.3	2038.7	1854.8	1729.1	1625.6	1607.7
10°	3311.1	3110.2	2689.5	2309.8	2097.7	1909.6	1747.9	1564.1	1416.1	1298.1	1265.6
12.5°	3158.9	2934.0	2464.5	2146.4	1945.5	1752.2	1541.8	1328.9	1177.5	1050.1	991.1
15°	3131.6	2870.7	2401.3	2029.3	1781.3	1547.8	1268.2	1038.2	882.5	761.9	725.2
17.5°	3296.6	2984.5	2391.9	1907.0	1566.6	1235.7	944.9	754.2	578.9	511.4	484.9
20°	3590.8	3185.4	2391.0	1765.0	1346.0	951.8	663.6	491.7	420.7	388.2	372.8
22.5°	3991.9	3459.1	2436.3	1642.7	1116.8	702.1	473.8	391.7	350.6	324.1	318.1
25°	4481.9	3864.4	2547.5	1559.8	941.5	550.7	390.8	335.2	301.0	289.0	283.9
27.5°	4917.1	4252.7	2669.8	1474.3	815.8	487.4	362.6	307.0	279.6	270.2	262.5
30°	5292.5	4605.0	2728.8	1361.4	714.9	446.4	367.7	328.4	292.5	264.2	251.4
32.5°	5605.5	4875.2	2767.3	1258.8	629.4	365.2	290.8	254.0	237.7	227.5	218.9
35°	5997.2	5167.7	2744.2	1200.6	585.8	332.7	265.1	218.9	191.6	171.0	162.5
37.5°	6407.7	5460.1	2704.0	1152.7	566.1	308.7	252.3	207.8	177.9	156.5	145.4
40°	6832.7	5731.2	2657.0	1108.3	548.2	293.3	244.6	198.4	168.5	145.4	133.4
42.5°	7221.8	5995.5	2638.1	1079.2	519.1	295.9	238.6	194.1	159.1	135.1	124.9
45°	7536.5	6246.0	2663.8	1063.8	487.4	291.6	240.3	189.0	151.4	128.3	118.0
47.5°	7872.5	6600.1	2746.7	1048.4	456.7	271.1	253.1	188.1	147.9	124.0	112.9
50°	8263.3	7053.3	2936.6	1010.8	419.0	248.8	269.4	187.3	143.7	118.9	107.7
52.5°	8784.1	7568.1	3132.4	944.9	364.3	227.5	257.4	184.7	135.1	112.9	101.8
55°	9251.9	8110.3	3298.3	867.1	295.0	196.7	231.7	173.6	120.6	102.6	92.4
57.5°	9445.2	8416.4	3293.2	759.4	236.0	172.7	190.7	159.1	105.2	90.6	82.1
59°	9374.2	8377.9	3182.9	679.8	215.5	159.9	158.2	157.3	98.3	82.1	75.3
60°	9274.1	8237.7	3064.0	640.5	202.7	151.4	145.4	155.6	92.4	77.0	70.1
62.5°	8891.0	7656.2	2669.8	573.8	185.6	128.3	116.3	131.7	82.1	66.7	60.7
65°	8336.0	6762.5	2260.2	555.0	180.4	106.0	96.6	94.1	70.1	56.4	51.3
67.5°	7253.4	5722.7	1830.9	542.2	182.1	88.9	84.7	71.0	58.2	47.0	43.6
70°	5807.3	4462.2	1499.1	527.6	183.9	72.7	71.0	56.4	47.0	39.3	35.9
72.5°	3528.4	2645.0	1180.1	458.4	178.7	58.2	63.3	42.8	34.2	28.2	26.5
75°	2181.5	1810.4	732.0	356.6	118.0	42.8	44.5	26.5	23.1	18.0	18.0
77.5°	1263.9	1143.3	261.7	128.3	52.2	25.7	19.7	13.7	12.8	7.7	7.7
80°	524.2	419.9	90.6	43.6	28.2	12.0	4.3	0.9	0.0	0.0	0.0
82.5°	153.1	136.0	24.8	19.7	8.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8
2.5°	3042.6	3014.4	3001.6	3045.2	3005.0	3056.3	3017.0	3034.1	3084.5	3106.8	3164.1
5°	2277.3	2248.2	2234.5	2300.4	2296.9	2329.4	2326.0	2355.9	2381.6	2324.3	2383.3
7.5°	1586.3	1566.6	1599.1	1650.4	1705.2	1687.2	1687.2	1647.0	1660.7	1652.2	1649.6
10°	1206.6	1139.1	1122.0	1120.2	1140.8	1145.0	1122.0	1066.4	1086.9	1092.9	1128.8
12.5°	949.2	897.1	817.5	781.6	772.2	779.9	703.8	655.0	678.1	664.5	699.5
15°	680.7	637.9	590.9	550.7	539.6	524.2	441.3	383.1	376.3	378.8	384.8
17.5°	485.7	456.7	456.7	413.9	390.8	344.6	302.7	277.1	274.5	277.1	281.3
20°	358.3	342.9	341.2	330.1	304.4	273.6	244.6	239.4	237.7	242.0	243.7
22.5°	308.7	292.5	278.8	277.9	254.0	228.3	214.6	207.8	208.7	210.4	214.6
25°	276.2	259.1	244.6	236.0	218.9	201.0	188.1	184.7	184.7	187.3	188.1
27.5°	253.1	231.7	218.9	206.9	191.6	176.2	165.0	162.5	160.8	162.5	166.8
30°	236.9	215.5	199.3	181.3	169.3	154.8	145.4	142.0	141.1	142.0	145.4
32.5°	202.7	189.8	177.0	160.8	146.2	136.8	126.6	120.6	120.6	122.3	125.7
35°	153.1	146.2	145.4	141.1	129.1	118.9	106.9	100.9	100.9	104.3	106.0
37.5°	135.1	122.3	120.6	118.9	113.7	100.1	88.9	83.8	82.9	85.5	88.9
40°	123.1	108.6	100.9	99.2	100.1	84.7	72.7	67.6	67.6	68.4	71.8
42.5°	113.7	96.6	82.9	81.2	84.7	71.0	59.0	53.9	53.9	53.9	58.2
45°	106.0	86.4	70.1	61.6	66.7	58.2	47.9	42.8	41.0	42.8	44.5
47.5°	100.9	78.7	61.6	49.6	49.6	46.2	38.5	32.5	30.8	31.6	34.2
50°	96.6	71.8	52.2	40.2	35.9	36.8	29.1	24.8	23.1	23.1	25.7
52.5°	89.8	65.0	45.3	34.2	27.4	24.8	21.4	18.0	17.1	18.0	19.7
55°	81.2	59.0	39.3	28.2	21.4	17.1	15.4	12.8	12.0	12.8	15.4
57.5°	71.8	49.6	31.6	22.2	14.5	11.1	10.3	8.6	6.8	7.7	9.4
59°	65.8	44.5	27.4	18.0	11.1	7.7	7.7	6.0	4.3	5.1	7.7
60°	63.3	41.0	23.1	15.4	9.4	6.0	6.0	4.3	2.6	3.4	6.0
62.5°	53.9	34.2	18.0	9.4	4.3	0.9	2.6	0.9	0.0	0.9	2.6
65°	45.3	27.4	12.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9
67.5°	37.6	20.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	29.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	20.5	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P452319

CATALOG NUMBER: GALN-SA3B-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8
2.5°	3167.5	3289.8	3365.0	3507.0	3652.4	3764.4	3904.6	4030.3	4082.5	4109.9
5°	2443.2	2613.3	2757.9	2974.2	3175.2	3419.8	3667.7	3960.2	4072.2	4101.3
7.5°	1714.6	1888.2	2039.5	2290.1	2576.6	2904.1	3275.2	3646.4	3809.7	3855.9
10°	1238.3	1423.8	1608.5	1859.1	2126.8	2481.7	2868.2	3327.4	3515.5	3551.4
12.5°	781.6	980.9	1281.0	1590.6	1873.6	2159.3	2563.7	3063.2	3271.0	3336.8
15°	453.2	602.0	828.6	1232.3	1592.3	1970.3	2411.5	2964.0	3196.6	3264.1
17.5°	303.6	354.9	510.5	819.2	1294.7	1795.8	2373.0	3045.2	3302.6	3389.0
20°	255.7	278.8	333.5	499.4	997.1	1640.2	2383.3	3265.8	3603.6	3711.4
22.5°	224.9	246.3	281.3	359.2	696.1	1446.9	2432.1	3581.4	4017.5	4155.2
25°	198.4	219.8	250.6	297.6	467.8	1223.7	2538.9	4043.2	4565.7	4717.0
27.5°	176.2	195.8	222.3	262.5	360.0	974.9	2633.9	4493.0	5065.9	5189.1
30°	155.6	171.9	197.5	228.3	299.3	751.7	2681.8	4886.3	5430.2	5567.0
32.5°	135.1	150.5	175.3	200.1	246.3	573.0	2648.4	5175.4	5784.3	5871.5
35°	115.4	131.7	152.2	175.3	212.9	462.6	2481.7	5500.3	6151.1	6219.5
37.5°	99.2	112.9	134.3	152.2	192.4	370.3	2279.8	5792.8	6562.4	6660.8
40°	83.8	97.5	118.9	135.1	177.0	291.6	2097.7	6117.8	6996.0	7117.4
42.5°	68.4	84.7	103.5	130.0	152.2	222.3	1877.1	6381.1	7321.8	7474.0
45°	54.7	72.7	93.2	129.1	132.5	169.3	1664.1	6586.4	7610.0	7746.8
47.5°	43.6	61.6	89.8	120.6	108.6	134.3	1542.7	6801.0	7849.4	7958.9
50°	35.1	51.3	94.1	106.0	90.6	113.7	1539.3	7040.5	7973.4	8046.1
52.5°	28.2	41.9	79.5	81.2	77.0	100.1	1631.6	7309.8	8100.0	8159.9
55°	23.9	35.1	52.2	59.9	69.3	90.6	1700.9	7724.6	8401.9	8458.3
57.5°	18.8	29.9	40.2	47.9	61.6	82.9	1710.3	8044.4	8784.1	8820.9
59°	16.2	25.7	35.9	42.8	56.4	77.8	1671.8	8064.1	8808.9	8867.9
60°	13.7	23.1	31.6	40.2	52.2	73.5	1629.9	7921.3	8716.6	8782.4
62.5°	10.3	18.0	23.1	32.5	42.8	63.3	1431.5	7422.7	8363.4	8409.6
65°	6.8	12.8	17.1	23.9	33.4	54.7	1166.4	6776.2	7817.8	7921.3
67.5°	4.3	9.4	13.7	18.0	27.4	46.2	831.2	5810.8	7054.2	7120.9
70°	2.6	6.0	10.3	14.5	21.4	36.8	493.4	4593.0	5868.9	5882.6
72.5°	1.7	4.3	6.8	10.3	17.1	33.4	239.4	2993.9	4285.2	4448.5
75°	0.9	2.6	4.3	7.7	13.7	27.4	114.6	2000.2	3117.9	3164.9
77.5°	0.0	0.9	2.6	5.1	10.3	21.4	66.7	1313.5	2125.9	2174.7
80°	0.0	0.0	1.7	4.3	7.7	13.7	40.2	774.8	1287.9	1311.8
82.5°	0.0	0.0	0.9	3.4	5.1	10.3	20.5	340.4	843.2	851.7
85°	0.0	0.0	0.9	3.4	4.3	6.8	7.7	46.2	374.6	381.4
87.5°	0.0	0.0	0.9	4.3	4.3	4.3	4.3	2.6	31.6	39.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)