

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: P533565

Luminaire Tested: **GALN-SA9A-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533565  
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-SA9A-730-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA 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: 20873 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

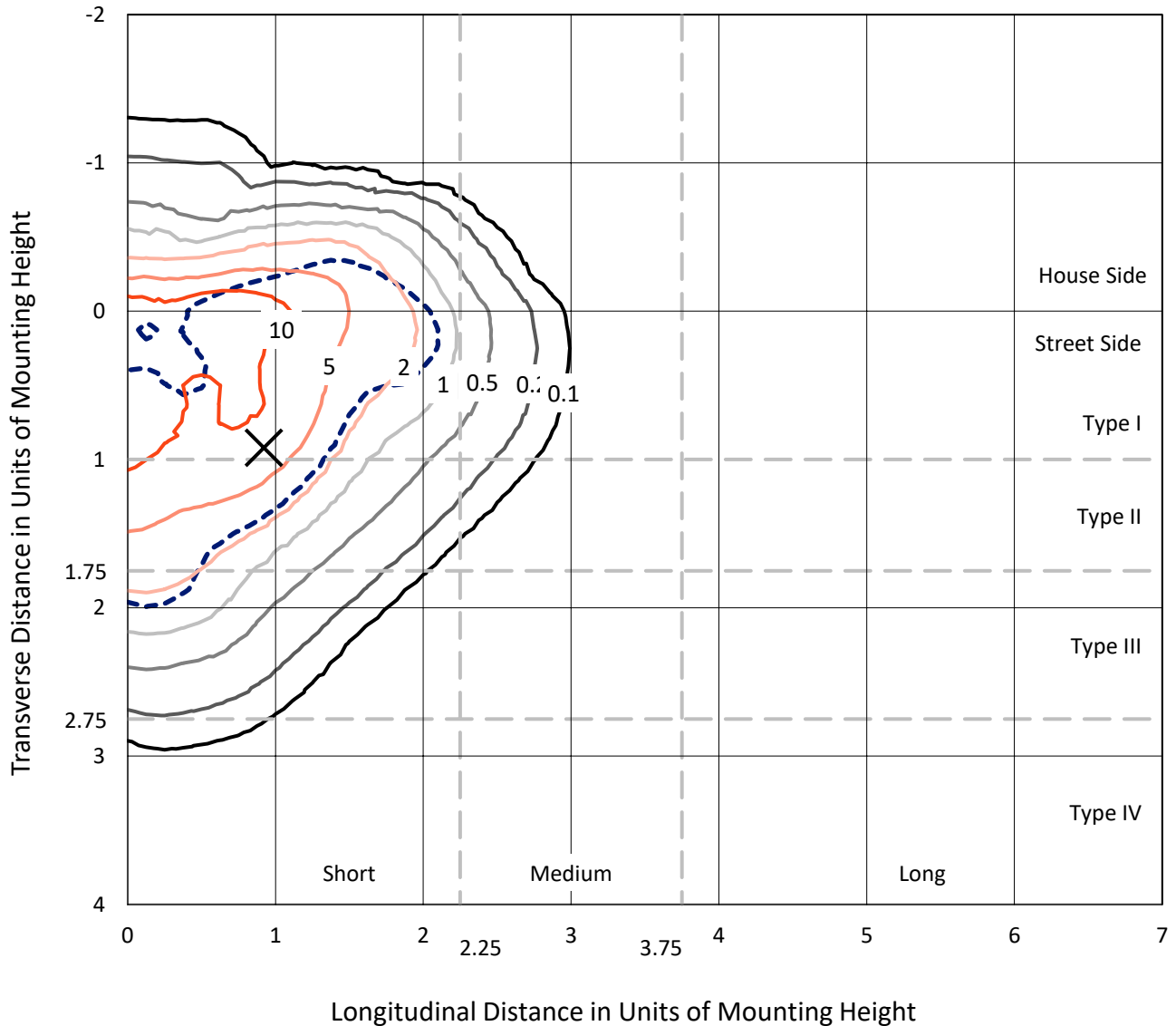
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

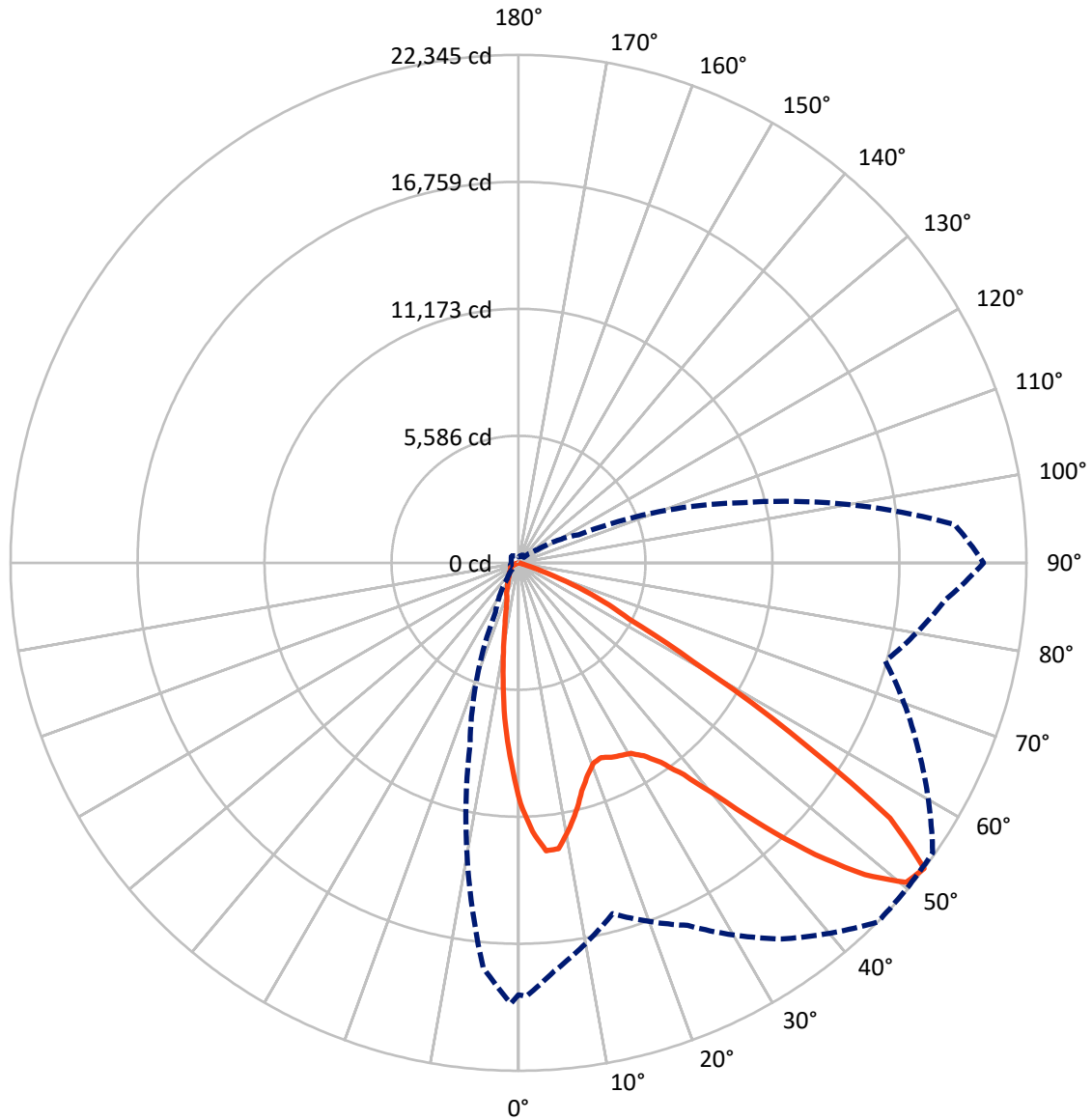
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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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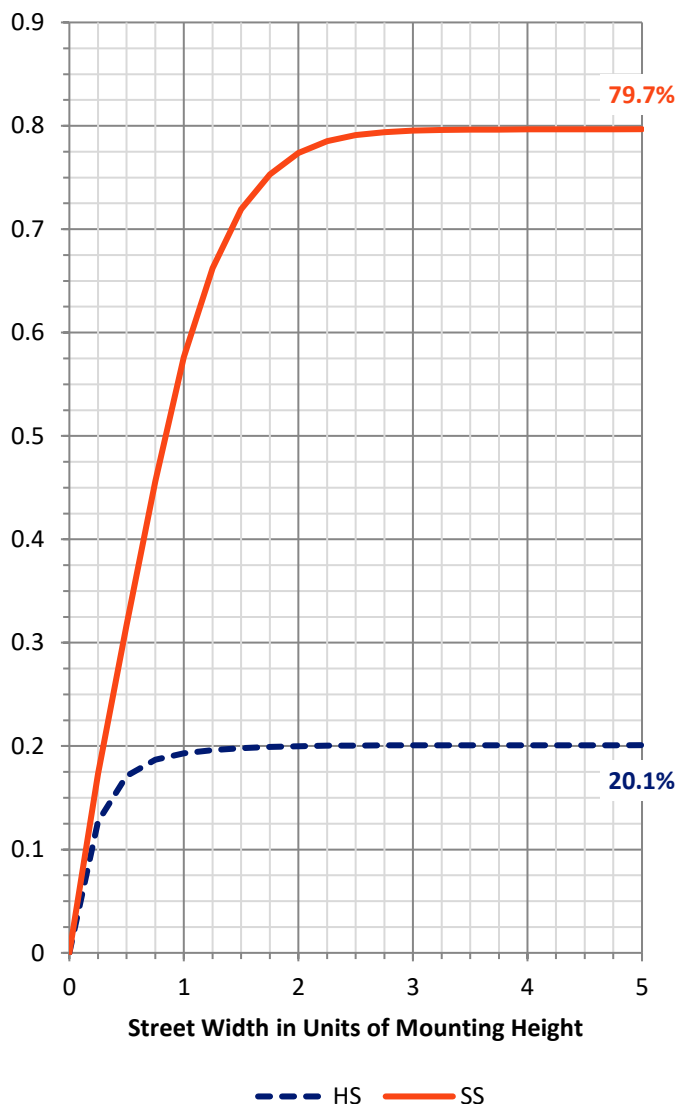
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4236.2	0.0	4236.2
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	16636.8	0.0	16636.8
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	20873.0	0.0	20873.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	771.8	3.7
10°-20°	1522.8	7.3
20°-30°	2317.5	11.1
30°-40°	3463.7	16.6
40°-50°	4932.7	23.6
50°-60°	5302.5	25.4
60°-70°	2349.7	11.3
70°-80°	190.1	0.9
80°-90°	22.2	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°	20873.0	100.0
0°-180°	20873.0	100.0

**Coefficient of Utilization**

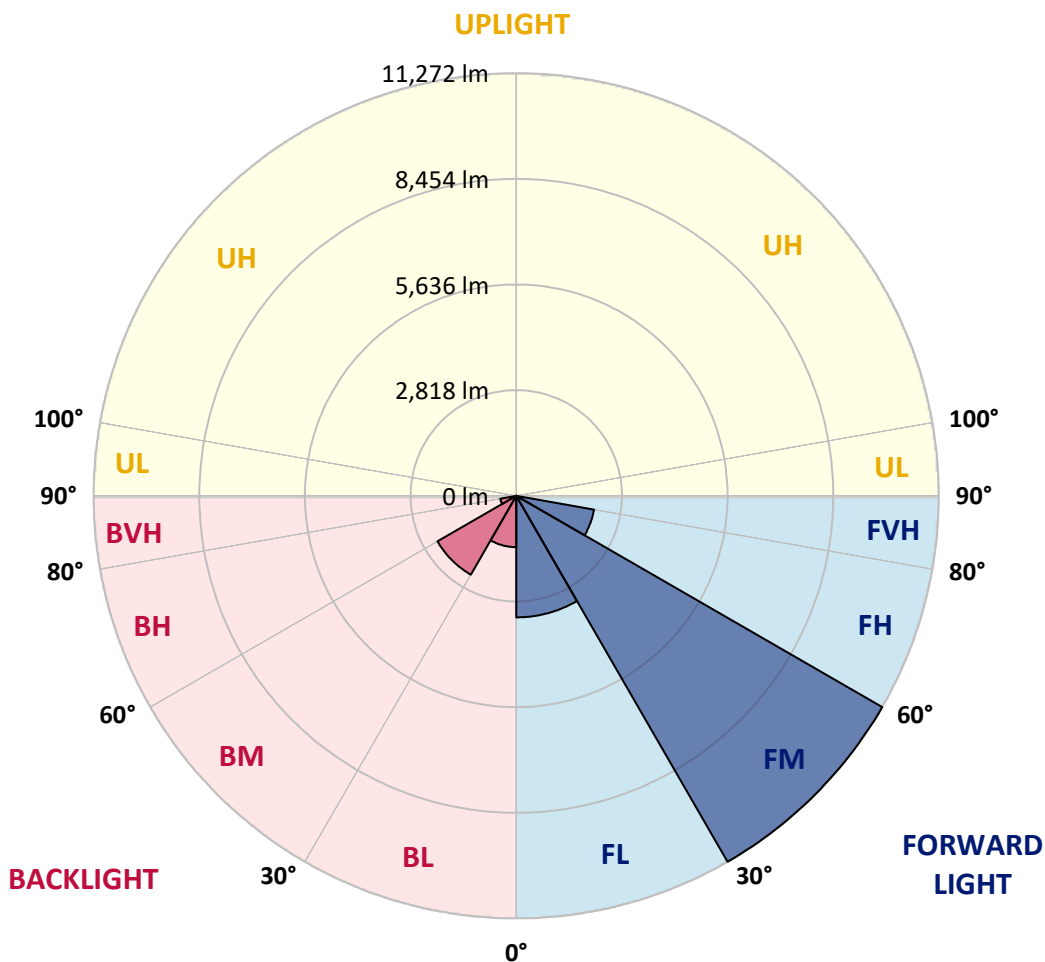


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3242.0	15.5			
FM (30°-60°)	11272.1	54.0			
FH (60°-80°)	2106.3	10.1			G2/5000
FVH (80°-90°)	16.4	0.1			G1/100
BL (0°-30°)	1370.1	6.6	B3/2500		
BM (30°-60°)	2426.9	11.6	B2/2500		
BH (60°-80°)	433.4	2.1	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6
2.5°	11199.4	11232.2	11412.9	11638.7	11757.7	12028.7	11839.8	11889.1	11786.4	11425.2	11141.9
5°	10858.6	10854.5	11084.4	11642.8	12172.4	12710.2	12726.6	12439.2	11934.2	11380.0	10587.7
7.5°	9832.3	9992.4	10230.5	11121.4	12102.6	12504.9	12697.8	12361.2	11585.3	10793.0	9934.9
10°	9056.4	9138.5	9540.8	10616.4	11334.9	11872.7	11991.7	11798.8	11203.5	10214.1	9253.4
12.5°	8608.9	8650.0	9122.1	10025.3	10784.7	11183.0	11240.4	11330.8	10903.8	9976.0	8822.4
15°	8613.0	8645.9	9282.2	10037.6	10337.3	10230.5	10419.4	10415.3	10600.0	9930.8	9183.7
17.5°	9232.9	9269.9	9844.6	10218.2	10086.8	9836.4	9824.1	10012.9	10402.9	10493.3	9729.7
20°	10300.3	10386.5	10809.4	10788.8	10049.9	9544.9	9405.3	9549.0	10456.3	10969.5	10829.9
22.5°	11737.2	11856.2	12151.8	11585.3	10218.2	9347.9	9302.7	9581.9	10809.4	12032.8	12077.9
25°	13404.0	13605.1	13748.8	13022.2	10817.6	9688.6	9475.1	9955.5	11285.6	13186.4	13666.7
27.5°	14508.3	14717.7	14684.8	13646.2	11219.9	9778.9	9598.3	10045.8	11700.2	13461.4	14496.0
30°	15370.4	15497.7	15727.6	13982.8	11622.2	10033.5	9725.6	10427.6	11835.7	13937.6	15497.7
32.5°	16376.2	16462.4	16478.9	14578.1	12242.1	10353.7	10119.7	10903.8	12435.1	14393.3	16384.4
35°	17390.2	17517.5	17250.7	15312.9	12623.9	10949.0	10776.5	11729.0	12915.4	14865.5	17361.5
37.5°	18490.5	18556.2	17940.4	15616.7	13169.9	11917.8	11823.4	12619.8	13748.8	15719.4	18445.3
40°	19414.2	19475.8	18675.2	15990.3	13744.7	13272.6	13514.8	14319.4	14881.9	16273.6	18987.2
42.5°	19927.3	20071.0	18921.5	15785.1	14898.3	14808.0	15883.6	16166.9	16195.6	16429.6	19471.7
45°	20066.9	20001.2	18515.1	15953.4	15908.2	17332.8	18309.8	18683.4	17501.1	16717.0	19594.8
47.5°	19422.4	19508.6	17915.7	15805.6	17234.2	19245.9	20510.3	21204.1	18474.1	16466.5	19291.0
50°	18901.0	18790.2	17722.8	15698.8	17591.4	20149.0	22099.1	22255.1	19369.0	16774.4	18958.5
52.5°	19003.6	19073.4	18030.7	15982.1	17599.6	20202.4	22345.4	22238.7	19397.8	16704.7	18839.4
55°	19221.2	18913.3	17899.3	15358.1	16421.4	18712.2	19832.9	19668.7	17903.4	15961.6	18548.0
57.5°	16585.6	17061.8	16458.3	13711.9	13477.8	14097.8	14077.2	14582.2	13354.7	13736.5	16885.3
60°	13461.4	13543.5	13769.3	11729.0	9327.3	9113.9	8818.3	8498.1	8986.6	11745.4	15358.1
62.5°	11839.8	11741.3	12545.9	10669.8	6585.0	5513.5	5464.2	5661.3	6933.9	11203.5	14405.7
65°	8604.8	8728.0	9310.9	8280.5	4942.8	4208.0	4134.1	4717.0	5612.0	8978.4	10994.1
67.5°	5254.8	5493.0	5546.3	5107.1	3354.1	2664.4	2557.6	3087.2	4052.0	5809.1	6445.4
70°	2426.3	2713.6	2984.6	2787.5	1941.8	1096.1	1034.5	1297.3	2044.5	3341.8	3419.8
72.5°	734.9	739.0	1034.5	1079.7	628.1	246.3	217.6	287.4	693.8	1104.3	1161.8
75°	53.4	57.5	139.6	160.1	119.1	61.6	65.7	78.0	147.8	246.3	184.7
77.5°	4.1	4.1	4.1	20.5	36.9	41.1	53.4	61.6	78.0	90.3	82.1
80°	4.1	0.0	4.1	16.4	28.7	41.1	49.3	57.5	61.6	69.8	61.6
82.5°	0.0	0.0	0.0	12.3	28.7	41.1	45.2	61.6	69.8	82.1	69.8
85°	0.0	0.0	0.0	12.3	28.7	45.2	41.1	20.5	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°	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6
2.5°	11191.2	11031.1	10665.7	10480.9	10045.8	9984.2	9557.2	9487.5	9343.8	9265.8	9076.9
5°	10238.7	10045.8	9450.5	8949.7	8366.7	7960.3	7648.3	7365.0	7200.8	7048.9	7118.7
7.5°	9462.8	8900.4	8239.4	7401.9	6728.7	6293.5	5817.3	5427.3	5197.4	5041.4	5078.3
10°	8650.0	8284.6	7365.0	6424.9	5612.0	5304.1	4930.5	4630.8	4306.5	4027.3	3896.0
12.5°	8395.4	7853.5	6699.9	5743.4	5127.6	4827.9	4400.9	4056.1	3641.4	3300.7	3181.6
15°	8440.6	7919.2	6519.3	5497.1	4770.4	4253.1	3744.1	3317.1	2861.4	2623.3	2500.2
17.5°	9175.4	8272.3	6638.3	5238.4	4273.7	3555.2	2927.1	2385.2	2044.5	1798.1	1744.8
20°	10078.6	9035.9	6892.9	5049.6	3867.2	2828.6	2138.9	1670.9	1387.6	1346.6	1334.2
22.5°	11400.5	10283.9	7438.9	4922.3	3370.5	2204.6	1465.6	1215.2	1137.2	1129.0	1133.1
25°	13248.0	11848.0	8034.2	4815.6	2996.9	1699.6	1198.8	1030.4	1005.8	993.5	1014.0
27.5°	14048.5	12792.3	8350.3	4585.7	2656.2	1531.3	1182.3	1022.2	952.4	931.9	944.2
30°	15037.9	13420.4	8847.0	4191.6	2155.3	1260.3	1104.3	1112.5	1079.7	977.1	944.2
32.5°	16351.6	14204.5	9097.4	3912.4	1925.4	1042.8	808.8	743.1	829.3	845.7	874.4
35°	17193.2	15000.9	9224.7	3748.2	1806.4	890.9	685.6	624.0	603.5	607.6	624.0
37.5°	18757.3	16076.5	9384.8	3575.8	1716.0	775.9	619.9	562.4	533.7	533.7	550.1
40°	19693.3	16930.4	9602.4	3481.3	1625.7	706.1	562.4	513.2	488.5	488.5	496.7
42.5°	19927.3	17353.3	9528.5	3448.5	1523.1	689.7	513.2	476.2	447.5	443.4	439.3
45°	20346.1	17997.8	9540.8	3411.5	1416.3	628.1	484.4	443.4	402.3	398.2	394.1
47.5°	20805.9	18461.7	9565.5	3267.9	1313.7	525.5	505.0	410.5	361.3	353.1	353.1
50°	20411.8	18831.2	9778.9	3124.2	1182.3	427.0	496.7	385.9	320.2	307.9	312.0
52.5°	20461.0	19266.4	10230.5	2923.0	1018.1	340.7	402.3	365.4	291.5	271.0	275.1
55°	19672.8	18806.6	10292.1	2709.5	796.4	262.7	307.9	320.2	246.3	238.1	238.1
57.5°	16934.6	15924.6	9081.0	2196.4	525.5	217.6	221.7	279.2	213.5	205.3	209.4
60°	14491.9	12784.0	7307.5	1449.2	328.4	172.4	160.1	283.3	188.8	184.7	197.1
62.5°	13211.0	10505.6	5542.2	899.1	225.8	131.4	110.8	229.9	164.2	164.2	180.6
65°	9544.9	7057.1	3222.7	472.1	160.1	102.6	82.1	131.4	135.5	139.6	147.8
67.5°	5911.7	3563.4	1358.9	229.9	106.7	69.8	53.4	82.1	90.3	90.3	98.5
70°	2918.9	1420.4	451.6	131.4	82.1	57.5	36.9	45.2	45.2	41.1	45.2
72.5°	903.2	427.0	114.9	82.1	57.5	36.9	20.5	16.4	8.2	0.0	4.1
75°	102.6	82.1	73.9	57.5	36.9	16.4	4.1	0.0	0.0	0.0	0.0
77.5°	61.6	69.8	69.8	57.5	36.9	12.3	0.0	0.0	0.0	0.0	0.0
80°	49.3	53.4	57.5	53.4	32.8	16.4	0.0	0.0	0.0	0.0	0.0
82.5°	61.6	69.8	78.0	69.8	45.2	20.5	8.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	12.3	4.1	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°	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6
2.5°	8998.9	8908.6	9035.9	8847.0	8842.9	8847.0	8793.7	8744.4	8822.4	9031.8	9052.3
5°	6868.2	7061.2	7122.8	7323.9	7213.1	7048.9	7081.7	6970.9	7241.8	7360.9	7266.5
7.5°	5000.3	4988.0	5402.6	5427.3	5480.6	5484.7	5476.5	5258.9	5037.3	5086.5	5234.3
10°	3879.6	3670.2	3871.3	3850.8	3982.2	3945.2	3998.6	3764.6	3842.6	3842.6	3937.0
12.5°	3161.1	2939.4	2902.5	2849.1	2902.5	2923.0	2943.5	2898.4	3029.7	3091.3	3157.0
15°	2413.9	2290.8	2257.9	2155.3	2171.7	2229.2	2278.5	2299.0	2257.9	2352.4	2360.6
17.5°	1753.0	1748.9	1769.4	1765.3	1748.9	1736.6	1732.5	1679.1	1662.7	1670.9	1703.7
20°	1330.1	1363.0	1432.8	1502.6	1539.5	1494.3	1432.8	1342.4	1305.5	1313.7	1317.8
22.5°	1137.2	1186.4	1280.9	1358.9	1395.8	1313.7	1202.9	1124.9	1108.4	1104.3	1100.2
25°	1030.4	1087.9	1157.7	1182.3	1178.2	1129.0	1046.9	1014.0	1005.8	997.6	960.7
27.5°	973.0	993.5	1005.8	1034.5	1046.9	1014.0	993.5	944.2	936.0	936.0	911.4
30°	940.1	927.8	944.2	923.7	940.1	915.5	919.6	919.6	899.1	907.3	907.3
32.5°	874.4	878.5	878.5	837.5	849.8	821.1	849.8	874.4	878.5	882.6	915.5
35°	640.4	714.3	751.3	751.3	763.6	743.1	739.0	710.2	673.3	636.3	619.9
37.5°	562.4	591.2	640.4	669.2	689.7	673.3	636.3	591.2	570.6	554.2	537.8
40°	500.9	525.5	558.3	591.2	632.2	611.7	554.2	533.7	509.1	509.1	492.6
42.5°	451.6	463.9	484.4	533.7	578.9	537.8	496.7	480.3	468.0	463.9	459.8
45°	406.4	410.5	431.1	472.1	525.5	484.4	443.4	422.9	427.0	431.1	427.0
47.5°	365.4	373.6	385.9	435.2	468.0	447.5	402.3	390.0	390.0	390.0	394.1
50°	316.1	336.6	361.3	402.3	427.0	414.6	377.7	361.3	353.1	353.1	357.2
52.5°	283.3	299.7	332.5	381.8	414.6	394.1	357.2	332.5	316.1	312.0	320.2
55°	246.3	275.1	328.4	365.4	410.5	390.0	349.0	320.2	291.5	287.4	287.4
57.5°	221.7	266.8	316.1	361.3	398.2	381.8	349.0	312.0	275.1	271.0	271.0
60°	209.4	258.6	307.9	349.0	398.2	373.6	344.8	303.8	262.7	262.7	258.6
62.5°	197.1	242.2	291.5	332.5	381.8	361.3	332.5	291.5	250.4	250.4	242.2
65°	164.2	209.4	242.2	279.2	332.5	312.0	283.3	254.5	221.7	213.5	217.6
67.5°	114.9	143.7	176.5	213.5	246.3	238.1	225.8	205.3	176.5	172.4	168.3
70°	57.5	78.0	106.7	143.7	172.4	164.2	156.0	139.6	123.2	119.1	119.1
72.5°	8.2	24.6	45.2	65.7	90.3	94.4	90.3	86.2	82.1	78.0	82.1
75°	0.0	0.0	0.0	16.4	36.9	45.2	53.4	61.6	61.6	53.4	65.7
77.5°	0.0	0.0	0.0	0.0	4.1	20.5	41.1	53.4	65.7	57.5	78.0
80°	0.0	0.0	0.0	0.0	4.1	24.6	41.1	57.5	65.7	57.5	82.1
82.5°	0.0	0.0	0.0	0.0	4.1	28.7	41.1	53.4	61.6	57.5	73.9
85°	0.0	0.0	0.0	0.0	12.3	24.6	16.4	8.2	4.1	4.1	12.3
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: P533565

CATALOG NUMBER: GALN-SA9A-730-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6	10583.6
2.5°	9167.2	9458.7	9770.7	9889.8	10259.3	10538.4	10727.3	11133.7	11195.3	11199.4
5°	7365.0	7512.8	8046.5	8296.9	8847.0	9274.0	9729.7	10386.5	10825.8	10858.6
7.5°	5234.3	5644.9	5870.6	6523.4	7200.8	7869.9	8547.3	9310.9	9820.0	9832.3
10°	4212.1	4478.9	4881.3	5369.8	5940.4	6621.9	7525.1	8411.9	8929.1	9056.4
12.5°	3391.0	3859.0	4318.8	4823.8	5258.9	5772.1	6745.1	7927.4	8354.4	8608.9
15°	2611.0	3038.0	3579.9	4171.0	4663.7	5349.3	6457.7	7808.4	8526.8	8613.0
17.5°	1925.4	2307.2	2808.1	3366.4	4105.3	5078.3	6507.0	8411.9	9089.2	9232.9
20°	1383.5	1605.2	1999.3	2647.9	3588.1	4762.2	6556.2	9023.5	10054.0	10300.3
22.5°	1096.1	1186.4	1445.1	2019.8	3009.2	4429.7	6905.2	10193.6	11380.0	11737.2
25°	952.4	1001.7	1124.9	1592.9	2643.8	4396.8	7463.5	11597.6	13145.3	13404.0
27.5°	919.6	927.8	1034.5	1461.5	2446.8	4179.2	7677.0	12595.2	14245.5	14508.3
30°	968.9	1100.2	1108.4	1235.7	2081.4	3748.2	7787.8	13560.0	15177.5	15370.4
32.5°	837.5	796.4	825.2	956.5	1831.0	3497.8	7997.2	14401.6	16240.7	16376.2
35°	583.0	611.7	677.4	829.3	1601.1	3235.0	8050.6	15329.4	17250.7	17390.2
37.5°	537.8	554.2	607.6	706.1	1408.1	3087.2	7976.7	16006.7	18297.5	18490.5
40°	500.9	521.4	550.1	640.4	1264.4	2923.0	7874.1	16618.4	18938.0	19414.2
42.5°	472.1	488.5	513.2	611.7	1141.3	2758.8	7730.4	17480.6	19512.7	19927.3
45°	439.3	463.9	492.6	595.3	1071.5	2647.9	7623.6	17427.2	19845.2	20066.9
47.5°	406.4	447.5	480.3	554.2	1051.0	2594.6	7668.8	17226.0	19574.3	19422.4
50°	373.6	427.0	484.4	459.8	1001.7	2487.8	7722.2	17501.1	18929.7	18901.0
52.5°	344.8	406.4	451.6	377.7	890.9	2385.2	8239.4	17862.4	19385.4	19003.6
55°	303.8	365.4	361.3	303.8	722.5	2307.2	8645.9	17870.6	19077.5	19221.2
57.5°	275.1	324.3	283.3	254.5	533.7	1929.5	7984.9	14984.5	16331.1	16585.6
60°	254.5	316.1	213.5	201.2	349.0	1391.7	6970.9	11605.8	12981.1	13461.4
62.5°	234.0	299.7	168.3	164.2	242.2	989.4	5731.1	9713.2	11187.1	11839.8
65°	205.3	213.5	135.5	127.3	172.4	533.7	3489.5	6687.6	8362.6	8604.8
67.5°	168.3	164.2	110.8	102.6	114.9	258.6	1539.5	3350.0	4848.4	5254.8
70°	135.5	135.5	94.4	82.1	82.1	119.1	402.3	1334.2	2192.3	2426.3
72.5°	98.5	102.6	73.9	65.7	61.6	57.5	65.7	266.8	574.7	734.9
75°	86.2	90.3	73.9	57.5	45.2	36.9	28.7	24.6	32.8	53.4
77.5°	94.4	94.4	78.0	53.4	41.1	28.7	16.4	8.2	8.2	4.1
80°	119.1	123.2	102.6	69.8	49.3	32.8	20.5	8.2	4.1	4.1
82.5°	127.3	139.6	114.9	86.2	61.6	36.9	20.5	4.1	0.0	0.0
85°	32.8	53.4	90.3	78.0	61.6	36.9	20.5	4.1	0.0	0.0
87.5°	0.0	4.1	12.3	12.3	16.4	16.4	12.3	4.1	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)