

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: P533567

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533567  
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-SA9A-730-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA 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: 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

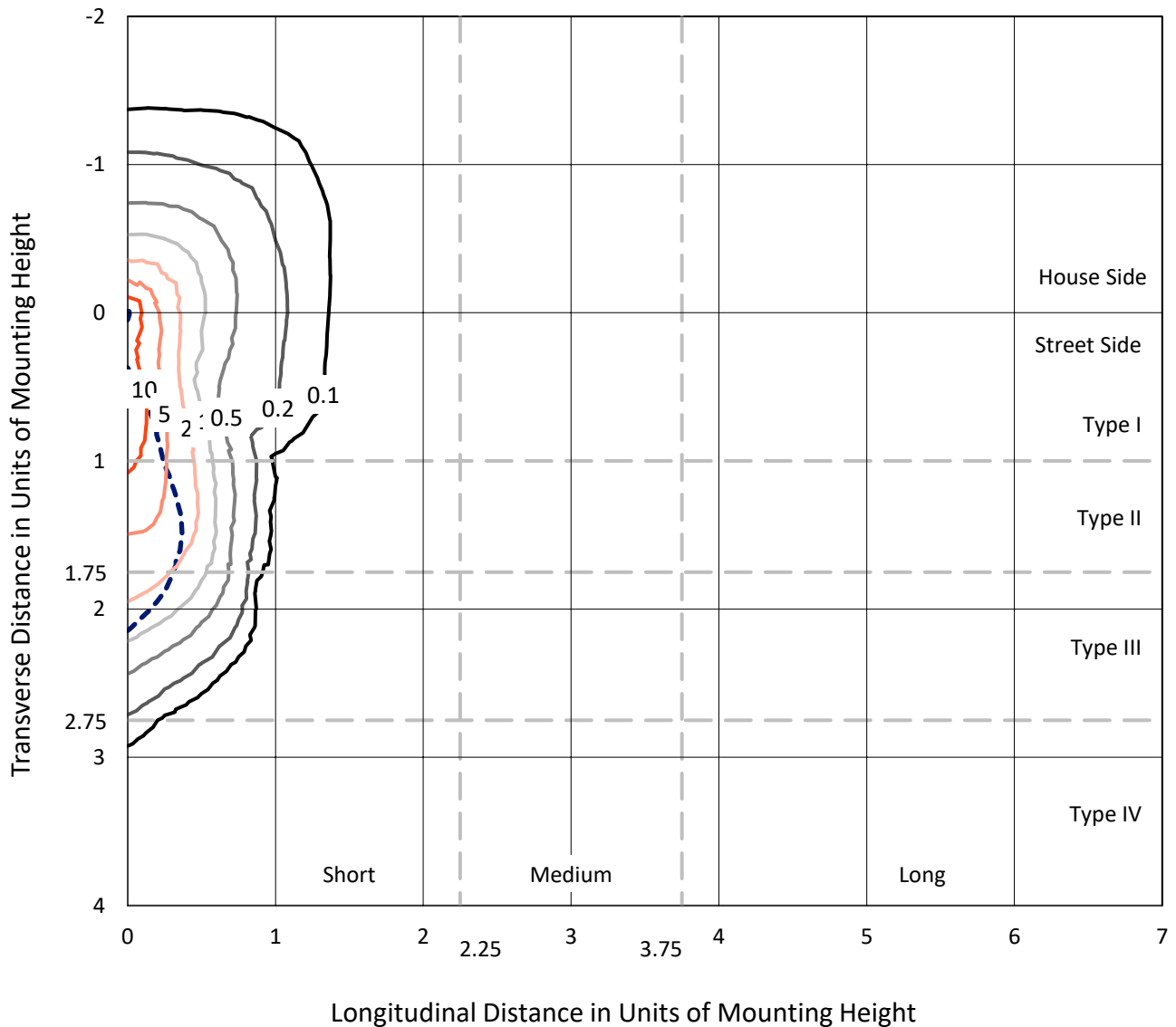




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### Iso-Footcandle Lines of Horizontal Illumination

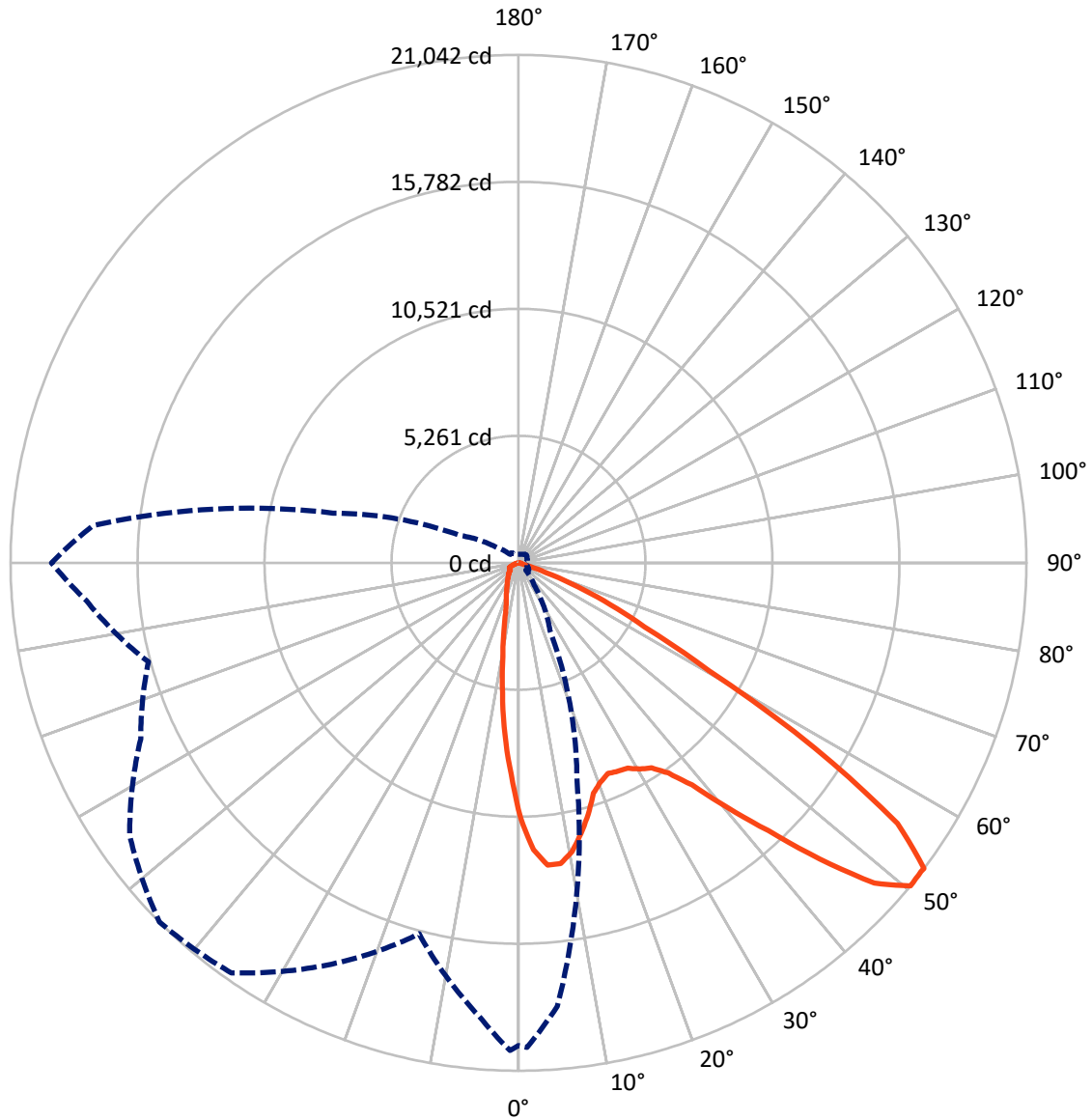
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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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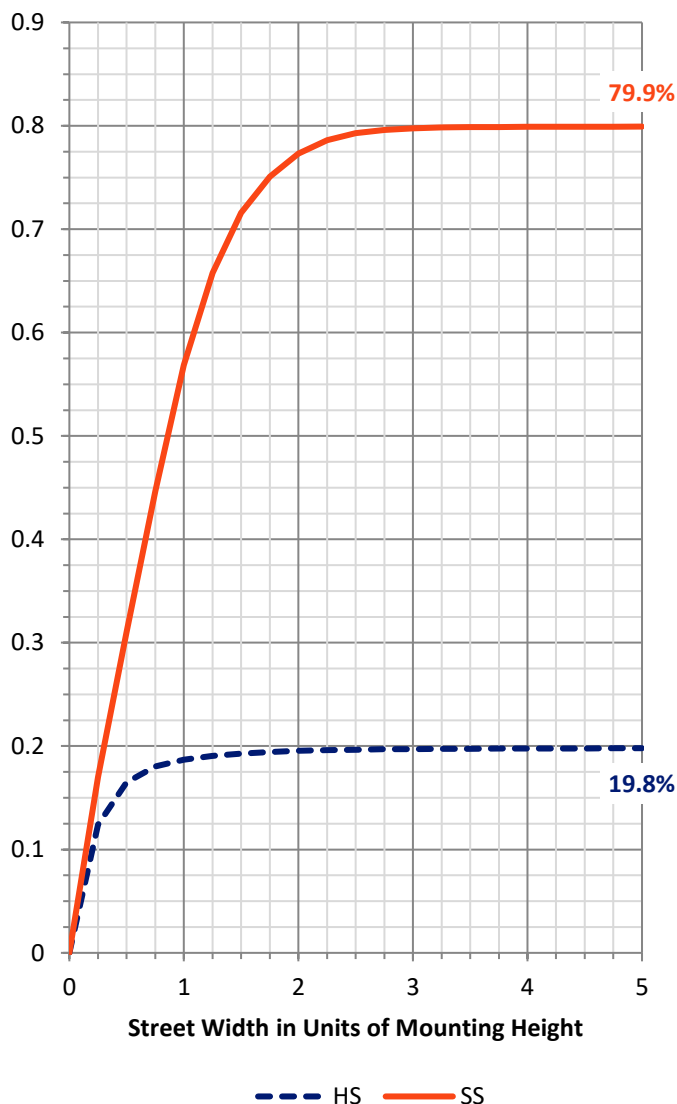
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4180.9	0.0	4180.9
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	16692.1	0.0	16692.1
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	20873.0	0.0	20873.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	771.5	3.7
10°-20°	1533.4	7.3
20°-30°	2303.7	11.0
30°-40°	3457.7	16.6
40°-50°	4859.6	23.3
50°-60°	5242.0	25.1
60°-70°	2433.8	11.7
70°-80°	229.0	1.1
80°-90°	42.2	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°	20873.0	100.0
0°-180°	20873.0	100.0

**Coefficient of Utilization**



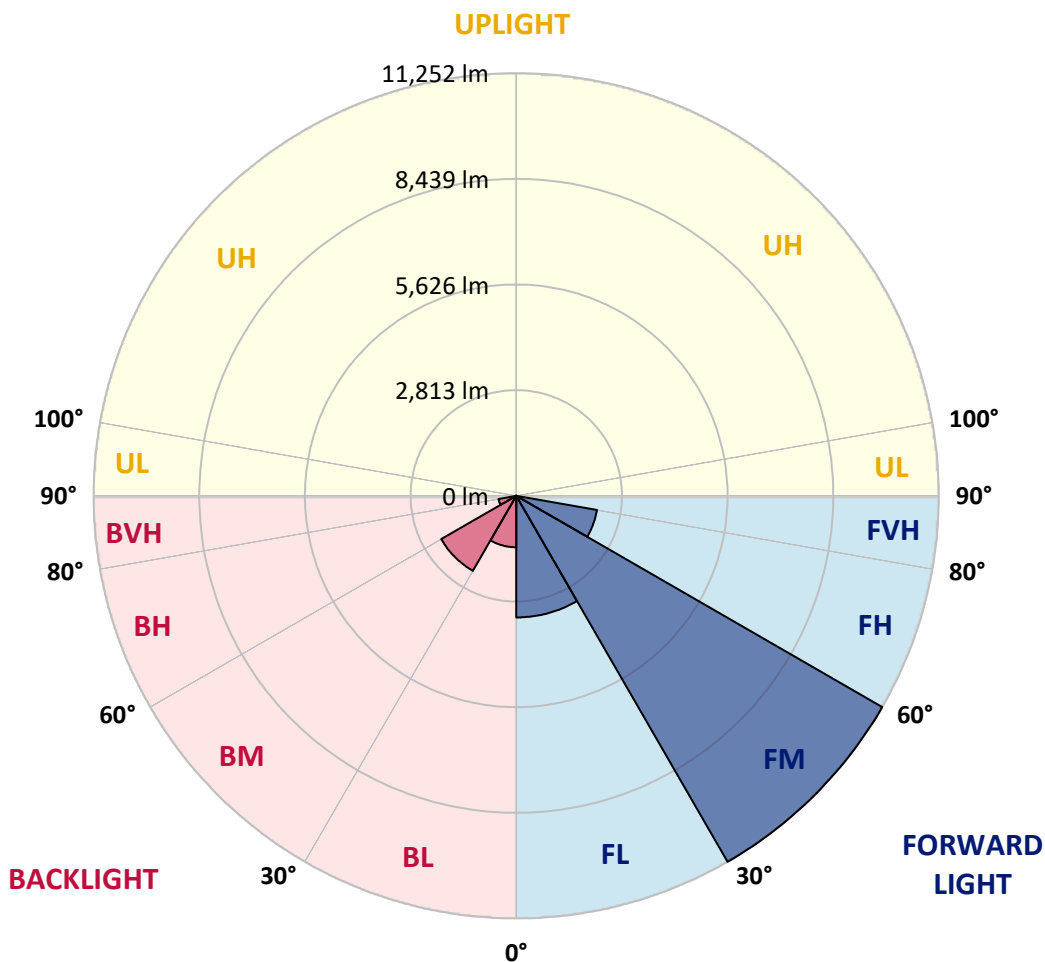
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3238.3	15.5			
FM (30°-60°)	11252.1	53.9			
FH (60°-80°)	2182.7	10.5			G2/5000
FVH (80°-90°)	19.0	0.1			G1/100
BL (0°-30°)	1370.4	6.6	B3/2500		
BM (30°-60°)	2307.2	11.1	B2/2500		
BH (60°-80°)	480.1	2.3	B1/500		G1/500
BVH (80°-90°)	23.2	0.1			G1/100
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°	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2
2.5°	11003.5	10833.7	10618.4	10440.3	10175.3	9641.0	9496.1	9322.1	9177.2	8982.5	8709.2
5°	10005.5	9951.6	9852.2	9181.3	8696.8	8050.7	7520.7	7297.0	7003.0	6762.8	6588.9
7.5°	9243.5	9028.1	8713.4	8038.3	7263.9	6572.3	5984.2	5640.5	5251.2	5118.7	4882.6
10°	8427.6	8477.3	8013.5	7065.1	6129.2	5570.1	5205.7	4874.3	4522.3	4290.4	3955.0
12.5°	8166.7	8005.2	7649.0	6477.0	5677.8	5156.0	4712.8	4302.8	3930.1	3557.4	3234.4
15°	8336.5	8088.0	7591.1	6352.8	5329.9	4679.7	4124.8	3569.8	3226.1	2749.8	2414.4
17.5°	8945.3	8746.5	8079.7	6485.3	5151.8	4224.2	3400.0	2828.5	2302.6	1871.9	1702.1
20°	9959.9	9678.3	8841.7	6655.1	4886.8	3673.4	2758.1	2054.1	1557.1	1374.9	1279.7
22.5°	10953.8	10800.6	9744.6	6982.3	4650.7	3184.7	2070.7	1383.2	1163.7	1130.6	1068.5
25°	12846.4	12386.7	11123.6	7574.5	4468.5	2725.0	1561.3	1114.0	985.6	960.8	969.1
27.5°	13972.9	13587.7	12399.1	7967.9	4265.6	2373.0	1321.1	1022.9	935.9	882.1	861.4
30°	15053.7	14606.5	13032.8	8199.8	3830.7	2000.3	1172.0	981.5	960.8	882.1	857.3
32.5°	15886.1	15447.2	13948.0	8547.7	3652.7	1760.1	964.9	766.1	712.3	704.0	778.6
35°	17161.7	16693.7	14730.7	8738.2	3516.0	1635.8	836.5	683.3	621.2	596.4	600.5
37.5°	18350.2	18031.4	15455.4	8812.8	3371.0	1598.6	749.6	612.9	559.1	542.5	538.4
40°	19344.2	18631.8	16142.9	8891.4	3308.9	1528.2	695.7	559.1	521.8	497.0	497.0
42.5°	19799.7	19075.0	16913.2	8845.9	3292.4	1416.3	695.7	513.5	484.5	459.7	455.5
45°	19700.3	19406.3	17256.9	8825.2	3292.4	1304.5	633.6	501.1	459.7	426.6	418.3
47.5°	19957.1	19571.9	17687.6	8912.1	3226.1	1225.8	534.2	525.9	434.8	393.4	385.1
50°	20002.6	20077.2	18437.2	9363.5	3081.2	1126.4	418.3	517.7	418.3	356.2	347.9
52°	20300.8	19837.0	18665.0	9603.7	2927.9	1051.9	352.0	443.1	401.7	331.3	323.0
52.5°	19890.8	20193.1	18718.8	9690.7	2944.5	1002.2	339.6	434.8	393.4	331.3	310.6
55°	19431.1	19721.0	18499.3	9877.1	2700.1	786.9	265.0	314.7	356.2	289.9	277.5
57.5°	16888.3	17182.4	16076.6	9044.7	2199.0	554.9	219.5	236.1	314.7	269.2	256.8
60°	15012.3	14801.1	13492.5	7545.5	1561.3	310.6	173.9	182.2	343.7	248.5	244.3
62.5°	13720.2	13268.8	11276.8	5826.9	952.5	207.1	136.7	140.8	265.0	231.9	231.9
65°	10150.4	9645.2	7491.7	3524.3	468.0	144.9	103.5	111.8	165.7	198.8	198.8
67.5°	5793.7	5599.1	3619.5	1590.3	194.6	91.1	78.7	87.0	128.4	161.5	153.2
70°	2662.9	2389.5	1391.5	335.4	91.1	62.1	62.1	70.4	103.5	120.1	111.8
72.5°	778.6	737.2	339.6	53.8	37.3	37.3	41.4	53.8	78.7	91.1	82.8
75°	58.0	37.3	24.8	16.6	16.6	24.8	33.1	53.8	78.7	87.0	70.4
77.5°	4.1	8.3	4.1	4.1	12.4	24.8	37.3	66.3	103.5	107.7	78.7
80°	4.1	4.1	0.0	4.1	12.4	24.8	41.4	74.5	116.0	124.2	66.3
82.5°	0.0	0.0	0.0	4.1	16.6	33.1	49.7	78.7	107.7	132.5	70.4
85°	0.0	0.0	0.0	4.1	24.8	45.6	58.0	20.7	12.4	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°	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2
2.5°	8903.9	8796.2	8754.8	8792.0	8779.6	8767.2	8995.0	8945.3	8937.0	9011.5	8995.0
5°	6684.1	6493.6	7015.4	6804.2	7023.7	7156.2	7181.1	7193.5	7346.7	7185.2	7396.4
7.5°	4762.5	4812.2	4808.1	4948.9	5201.5	5425.1	5557.7	5454.1	5445.9	5425.1	5334.0
10°	3805.9	3718.9	3702.3	3669.2	3747.9	3938.4	4099.9	3971.5	3880.4	4004.7	3967.4
12.5°	3110.1	2990.0	2923.8	2791.3	2795.4	2923.8	2923.8	2923.8	3014.9	3085.3	3139.1
15°	2385.4	2286.0	2286.0	2153.5	2124.5	2128.6	2194.9	2203.2	2348.1	2389.5	2410.3
17.5°	1669.0	1615.1	1677.2	1731.1	1697.9	1706.2	1731.1	1739.4	1760.1	1743.5	1784.9
20°	1283.8	1275.5	1292.1	1387.3	1457.7	1499.2	1470.2	1428.8	1403.9	1345.9	1345.9
22.5°	1089.2	1105.7	1134.7	1213.4	1304.5	1329.4	1296.2	1201.0	1126.4	1118.2	1122.3
25°	969.1	985.6	1031.2	1080.9	1130.6	1172.0	1138.9	1068.5	1027.1	989.8	989.8
27.5°	894.5	902.8	927.7	964.9	1006.3	1039.5	1027.1	989.8	944.2	927.7	890.4
30°	836.5	849.0	878.0	886.2	923.5	940.1	919.4	911.1	882.1	861.4	849.0
32.5°	807.6	803.4	824.1	832.4	836.5	849.0	824.1	836.5	832.4	799.3	786.9
35°	608.8	641.9	695.7	741.3	753.7	770.3	766.1	749.6	704.0	666.8	621.2
37.5°	546.7	567.4	596.4	633.6	683.3	704.0	695.7	654.3	600.5	575.6	567.4
40°	505.2	517.7	542.5	567.4	617.1	654.3	625.3	588.1	546.7	525.9	513.5
42.5°	468.0	472.1	484.5	509.4	546.7	604.6	554.9	505.2	488.7	476.3	468.0
45°	426.6	426.6	443.1	455.5	497.0	550.8	501.1	455.5	447.3	439.0	434.8
47.5°	393.4	397.6	405.9	422.4	455.5	492.8	459.7	422.4	401.7	397.6	389.3
50°	352.0	356.2	372.7	389.3	430.7	451.4	430.7	389.3	368.6	356.2	356.2
52°	318.9	331.3	347.9	381.0	410.0	443.1	418.3	372.7	347.9	335.4	327.2
52.5°	314.7	323.0	339.6	376.9	410.0	439.0	414.1	368.6	339.6	331.3	323.0
55°	281.6	294.0	323.0	368.6	405.9	439.0	405.9	364.4	323.0	302.3	294.0
57.5°	269.2	277.5	314.7	372.7	401.7	439.0	405.9	364.4	323.0	285.8	277.5
60°	256.8	273.3	314.7	360.3	397.6	443.1	410.0	360.3	314.7	269.2	269.2
62.5°	244.3	256.8	310.6	352.0	381.0	426.6	393.4	352.0	302.3	256.8	252.6
65°	211.2	231.9	273.3	294.0	327.2	368.6	335.4	306.5	265.0	227.8	223.6
67.5°	161.5	169.8	202.9	227.8	248.5	285.8	269.2	231.9	202.9	173.9	173.9
70°	111.8	120.1	144.9	157.4	178.1	198.8	186.4	157.4	136.7	120.1	116.0
72.5°	78.7	82.8	91.1	99.4	107.7	116.0	111.8	91.1	78.7	74.5	70.4
75°	62.1	70.4	74.5	70.4	66.3	62.1	62.1	53.8	45.6	41.4	41.4
77.5°	62.1	66.3	62.1	53.8	45.6	41.4	37.3	33.1	24.8	20.7	24.8
80°	53.8	53.8	53.8	45.6	41.4	37.3	33.1	29.0	24.8	20.7	20.7
82.5°	58.0	58.0	53.8	45.6	45.6	37.3	37.3	33.1	29.0	20.7	20.7
85°	0.0	0.0	0.0	8.3	20.7	37.3	37.3	33.1	29.0	24.8	24.8
87.5°	0.0	0.0	0.0	0.0	4.1	8.3	16.6	20.7	24.8	24.8	24.8
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°	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2
2.5°	9144.1	9301.4	9599.6	9897.8	10080.0	10295.3	10684.6	10891.7	11160.9	11293.4	11554.3
5°	7367.4	7740.1	7872.7	8212.3	8576.7	8941.1	9520.9	10158.7	10688.8	11053.2	11525.3
7.5°	5375.4	5462.4	5975.9	6203.7	6800.1	7462.7	8253.7	9057.1	9728.0	10324.3	10684.6
10°	4029.5	4348.4	4671.4	5106.3	5586.7	6270.0	7027.8	7914.1	8783.8	9380.1	9835.7
12.5°	3238.5	3491.1	3921.8	4389.8	4982.0	5433.4	6195.4	7073.4	8199.8	8783.8	9384.3
15°	2451.7	2774.7	3263.4	3747.9	4373.2	4849.5	5619.8	6725.5	8175.0	8978.4	9496.1
17.5°	1818.0	2037.5	2476.5	3019.0	3656.8	4327.7	5367.2	6688.2	8452.5	9409.1	9943.3
20°	1391.5	1466.0	1743.5	2228.0	2919.6	3797.6	4957.2	6849.8	9272.4	10456.9	10999.4
22.5°	1126.4	1159.6	1267.2	1602.7	2273.6	3333.8	4762.5	6961.6	10196.0	11711.7	12436.4
25°	981.5	973.2	1043.6	1188.6	1776.6	2898.9	4514.1	7384.0	11326.5	13186.0	13836.2
27.5°	894.5	894.5	927.7	1031.2	1474.3	2617.3	4356.7	7686.3	12465.4	14482.2	14834.2
30°	849.0	857.3	952.5	985.6	1225.8	2281.9	4095.8	7992.8	13554.6	15310.5	15795.0
32.5°	786.9	753.7	733.0	815.8	1031.2	1979.6	3834.9	8121.2	14436.7	16325.1	16739.3
35°	604.6	588.1	612.9	675.0	886.2	1722.8	3545.0	8266.1	15451.3	17501.3	17584.1
37.5°	546.7	542.5	559.1	612.9	745.4	1499.2	3337.9	8228.8	16225.7	18474.5	18250.8
40°	505.2	505.2	517.7	563.2	666.8	1341.8	3122.6	8195.7	16975.3	19567.8	18913.5
42.5°	472.1	472.1	492.8	521.8	633.6	1238.3	2961.1	8150.1	17604.8	20238.7	19302.7
45°	426.6	439.0	472.1	501.1	641.9	1167.9	2841.0	7976.2	17820.1	20230.4	19116.4
47.5°	393.4	410.0	443.1	484.5	579.8	1147.1	2758.1	7823.0	17745.6	19733.4	18532.5
50°	356.2	376.9	422.4	492.8	492.8	1105.7	2671.2	7959.6	17691.8	19348.3	17973.4
52°	331.3	347.9	405.9	480.4	430.7	1018.8	2617.3	8224.7	17911.3	19298.6	17724.9
52.5°	327.2	339.6	393.4	472.1	410.0	1002.2	2580.0	8286.8	17981.7	19174.4	17894.7
55°	289.9	306.5	360.3	368.6	335.4	824.1	2460.0	8427.6	17633.8	18930.0	17733.2
57.5°	273.3	281.6	318.9	302.3	289.9	621.2	2116.2	8208.1	15662.5	16813.8	16499.1
60°	252.6	260.9	298.2	236.1	244.3	434.8	1590.3	7127.2	12577.2	14010.1	14577.5
62.5°	244.3	240.2	281.6	190.5	207.1	314.7	1122.3	5793.7	9690.7	11533.6	12515.1
65°	215.3	211.2	202.9	161.5	178.1	244.3	670.9	3781.0	6829.1	8725.8	9264.2
67.5°	165.7	173.9	149.1	128.4	149.1	190.5	372.7	1693.8	3582.3	5234.6	5669.5
70°	116.0	124.2	120.1	111.8	132.5	157.4	215.3	579.8	1482.6	2749.8	3031.5
72.5°	70.4	87.0	91.1	95.3	116.0	136.7	153.2	186.4	393.4	973.2	1209.3
75°	41.4	58.0	70.4	82.8	95.3	116.0	128.4	132.5	136.7	182.2	294.0
77.5°	29.0	41.4	62.1	78.7	95.3	116.0	136.7	144.9	136.7	128.4	136.7
80°	24.8	41.4	58.0	74.5	99.4	120.1	136.7	136.7	132.5	116.0	124.2
82.5°	24.8	41.4	62.1	78.7	95.3	116.0	132.5	136.7	124.2	116.0	120.1
85°	29.0	45.6	66.3	82.8	103.5	95.3	87.0	70.4	66.3	53.8	58.0
87.5°	29.0	41.4	41.4	45.6	49.7	49.7	49.7	45.6	37.3	33.1	33.1
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: P533567

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2	10585.2
2.5°	11566.7	11898.0	11885.6	11893.9	11844.2	11508.8	11347.2	10937.3	11053.2	11003.5
5°	12009.9	12337.0	12618.6	12585.5	12204.5	11749.0	11073.9	10436.2	10262.2	10005.5
7.5°	11566.7	12353.6	12614.5	12577.2	12014.0	11430.1	10353.3	9715.6	9413.2	9243.5
10°	10862.7	11773.8	12096.8	12163.1	11782.1	10895.8	9906.1	8883.2	8721.6	8427.6
12.5°	10461.0	11123.6	11322.4	11500.5	11368.0	10705.3	9566.5	8585.0	8361.3	8166.7
15°	10133.8	10527.3	10610.1	10813.0	10891.7	10535.5	9744.6	8908.0	8357.2	8336.5
17.5°	10436.2	10274.6	9972.3	10034.4	10282.9	10539.7	10204.2	9545.8	9011.5	8945.3
20°	10937.3	10224.9	9541.6	9694.9	9901.9	10688.8	10900.0	10436.2	10129.7	9959.9
22.5°	11512.9	10311.9	9405.0	9479.5	9872.9	11024.2	12026.4	11769.7	11198.2	10953.8
25°	12577.2	10552.1	9512.6	9562.3	10100.7	11492.2	13045.2	13235.7	12896.1	12846.4
27.5°	13616.7	11173.3	9748.7	9636.9	10216.7	11947.7	13662.3	14685.2	14088.8	13972.9
30°	14146.8	11678.6	10100.7	9910.2	10697.1	12225.2	14035.0	15629.4	15107.6	15053.7
32.5°	14958.5	12138.2	10374.0	10129.7	10966.2	12568.9	14730.7	16660.6	16155.3	15886.1
35°	15298.1	12639.3	10974.5	10688.8	11736.5	13049.3	15086.9	17580.0	17422.6	17161.7
37.5°	15952.4	13177.7	11682.7	11666.1	12668.3	13674.7	15728.8	18830.6	18801.6	18350.2
40°	16006.2	13765.8	12800.9	13322.7	14109.5	14763.8	16292.0	19178.5	19650.6	19344.2
42.5°	16089.1	14797.0	14734.9	15165.6	15840.6	15699.8	16312.7	19261.3	19981.9	19799.7
45°	16126.3	15828.2	16702.0	17497.1	17778.7	16925.6	16118.1	19104.0	20155.9	19700.3
47.5°	15828.2	16714.4	18292.3	19828.7	19911.5	17679.3	16035.2	18942.4	20259.4	19957.1
50°	15869.6	17269.4	19667.2	21042.1	20739.8	18346.1	15906.9	18843.1	20205.6	20002.6
52°	15770.2	17281.8	19861.8	21017.3	20806.0	17977.5	15687.4	18462.1	20155.9	20300.8
52.5°	15882.0	17207.2	19658.9	21033.8	20760.5	18159.7	15658.4	18673.3	20184.8	19890.8
55°	15496.9	16321.0	18470.3	19054.3	19012.9	16482.5	14768.0	17973.4	19427.0	19431.1
57.5°	14006.0	14146.8	14486.4	14474.0	14283.5	12958.2	12631.1	16528.1	17319.0	16888.3
60°	12341.2	10357.5	9442.2	9069.5	8858.3	8643.0	11173.3	15120.0	15194.5	15012.3
62.5°	10663.9	7181.1	5963.5	5860.0	5909.7	6696.5	10800.6	14560.9	14113.7	13720.2
65°	8605.7	5234.6	4331.8	4195.2	4679.7	5528.7	8742.3	11165.0	10477.6	10150.4
67.5°	5404.4	3818.3	2927.9	2671.2	3255.1	3805.9	5744.0	7015.4	6245.1	5793.7
70°	3205.4	2132.8	1325.2	1188.6	1337.6	2029.3	3217.8	3499.4	2894.8	2662.9
72.5°	1263.1	782.7	368.6	314.7	327.2	712.3	1184.4	1155.4	873.8	778.6
75°	339.6	236.1	128.4	103.5	87.0	132.5	190.5	124.2	45.6	58.0
77.5°	157.4	140.8	111.8	87.0	66.3	49.7	24.8	8.3	8.3	4.1
80°	136.7	120.1	103.5	87.0	66.3	41.4	20.7	4.1	4.1	4.1
82.5°	128.4	111.8	95.3	78.7	62.1	41.4	20.7	4.1	0.0	0.0
85°	53.8	70.4	78.7	74.5	66.3	41.4	20.7	4.1	0.0	0.0
87.5°	29.0	24.8	20.7	16.6	12.4	8.3	8.3	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)