

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: P533541

Luminaire Tested: **GALN-SA9A-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533541
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-727-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 19167 lumens
Efficiency: N/A
Efficacy: 70.0 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

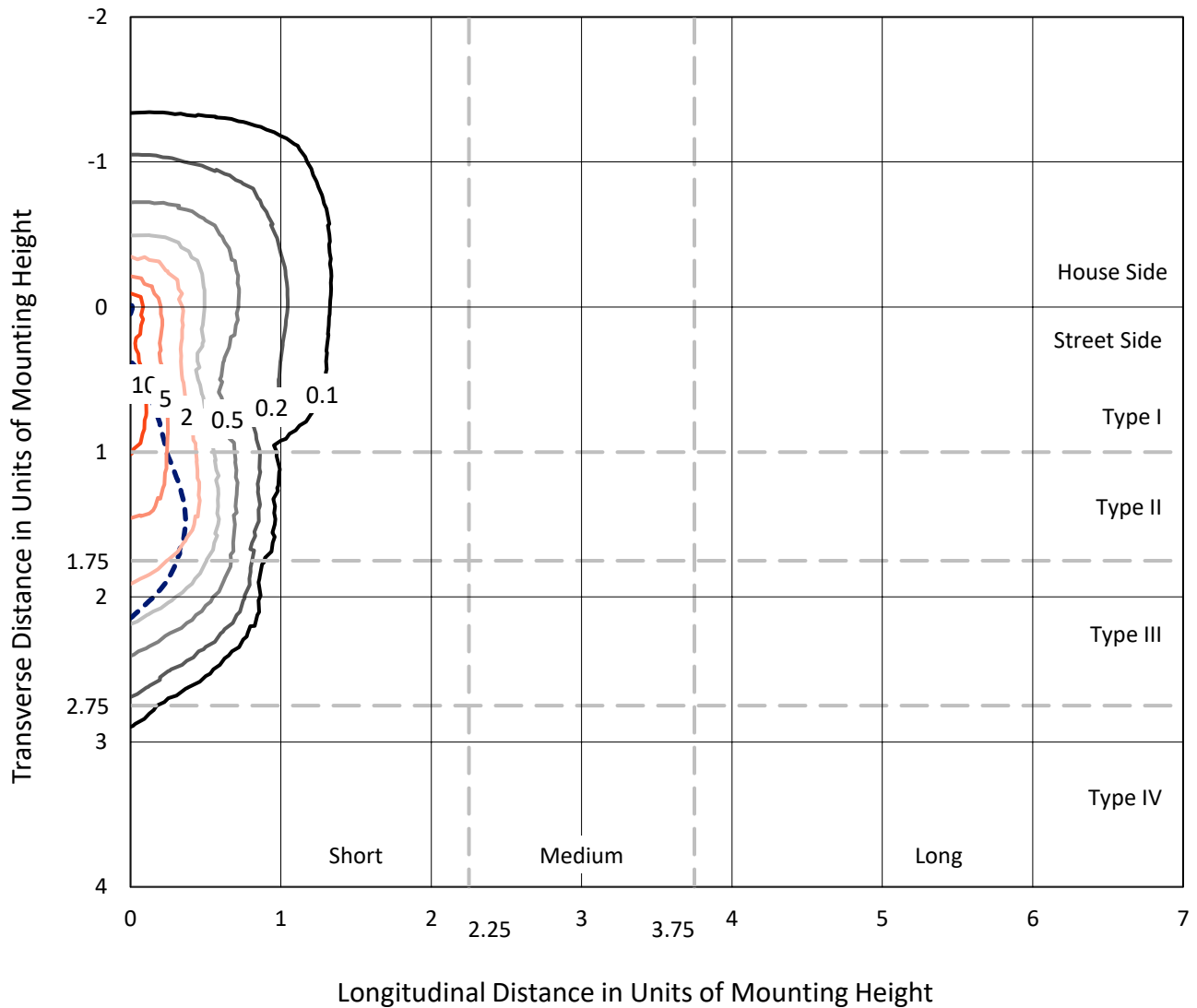
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

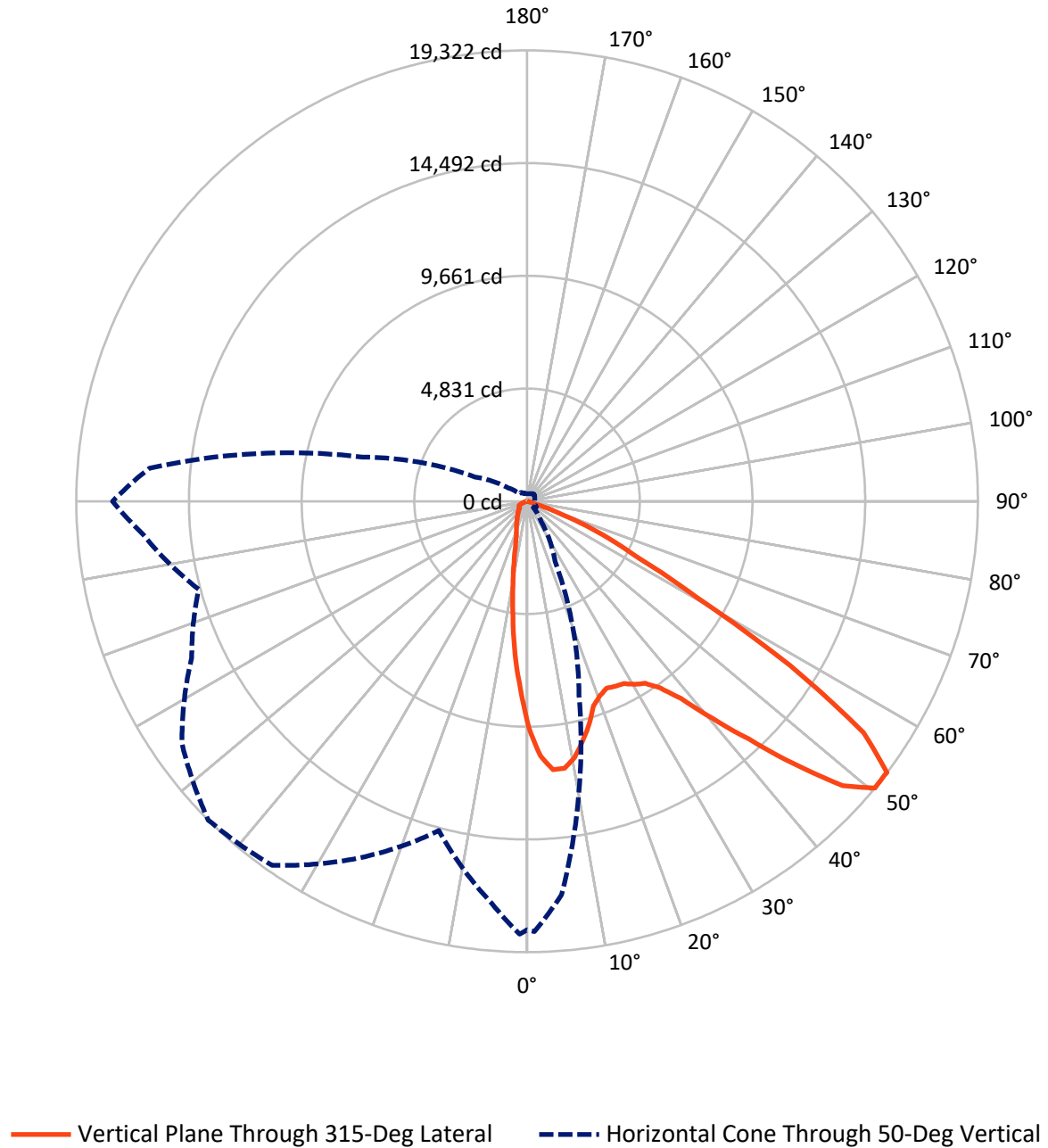
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot





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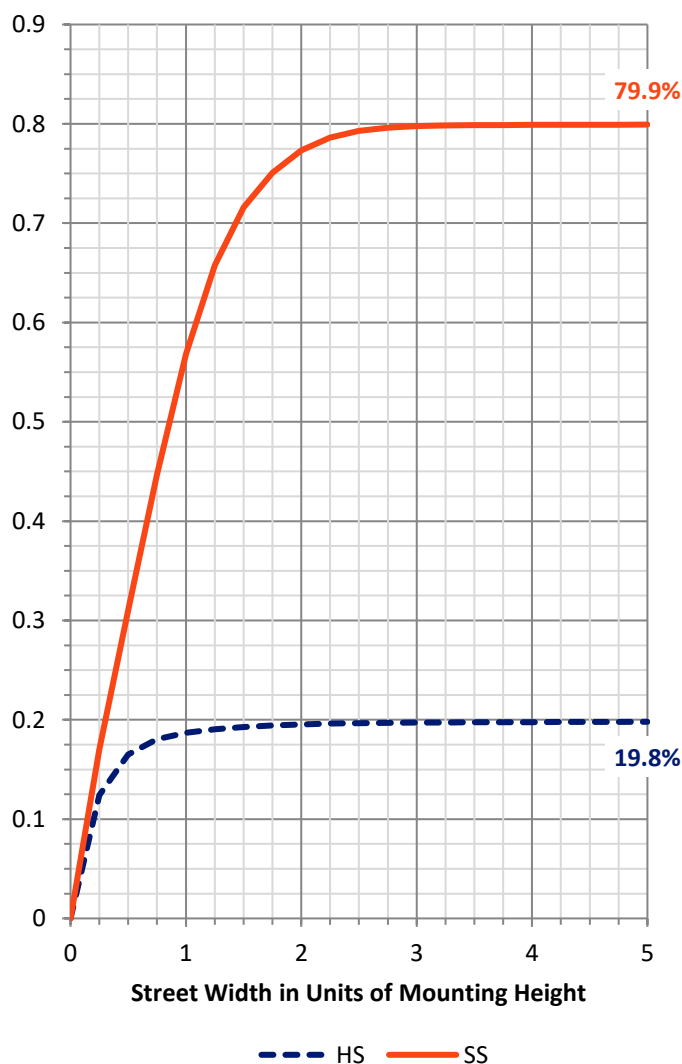
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3839.1	0.0	3839.1
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	15327.8	0.0	15327.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	19167.0	0.0	19167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.5	3.7
10°-20°	1408.1	7.3
20°-30°	2115.4	11.0
30°-40°	3175.1	16.6
40°-50°	4462.4	23.3
50°-60°	4813.5	25.1
60°-70°	2234.9	11.7
70°-80°	210.3	1.1
80°-90°	38.8	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°	19167.0	100.0
0°-180°	19167.0	100.0

Coefficient of Utilization



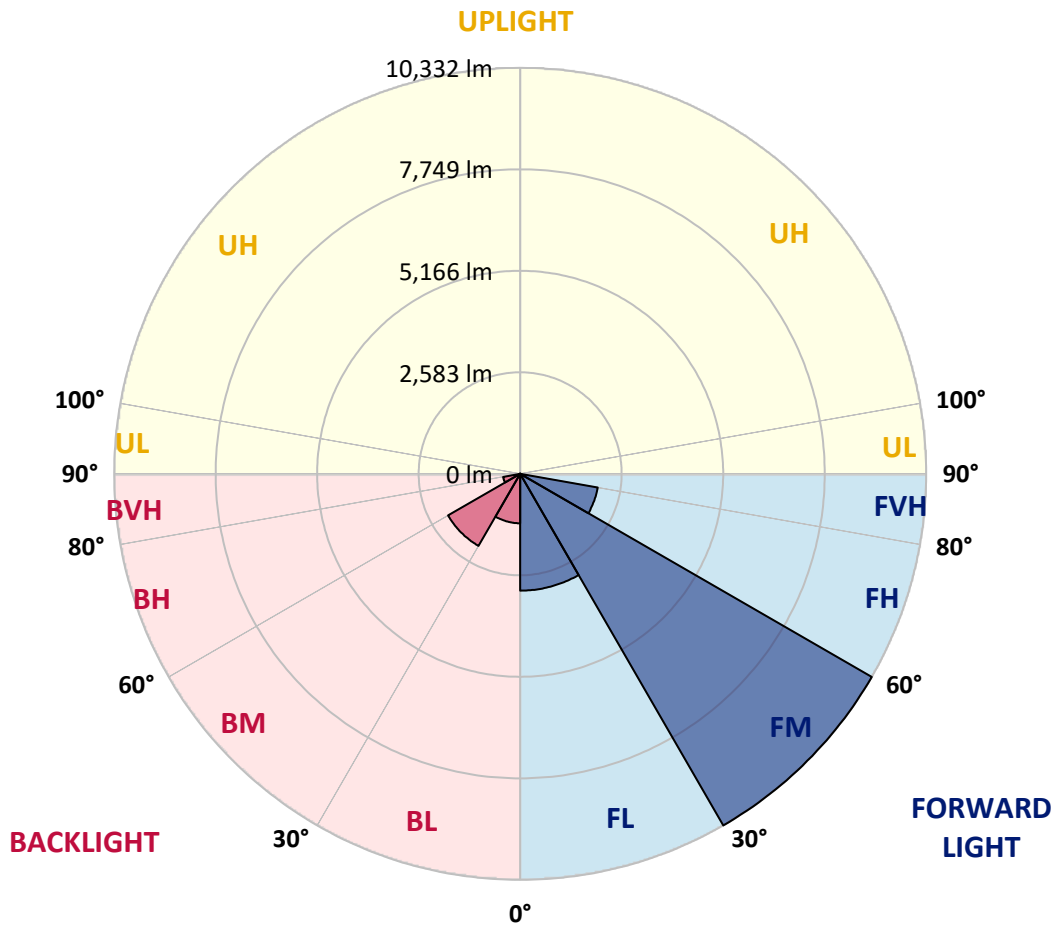
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2973.6	15.5			
FM (30°-60°)	10332.4	53.9			
FH (60°-80°)	2004.3	10.5			G2/5000
FVH (80°-90°)	17.5	0.1			G1/100
BL (0°-30°)	1258.4	6.6	B3/2500		
BM (30°-60°)	2118.6	11.1	B2/2500		
BH (60°-80°)	440.8	2.3	B1/500		G1/500
BVH (80°-90°)	21.3	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°	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1
2.5°	10104.2	9948.3	9750.5	9587.0	9343.6	8853.0	8719.9	8560.2	8427.1	8248.4	7997.4
5°	9187.7	9138.2	9047.0	8430.9	7986.0	7392.7	6906.0	6700.6	6430.6	6210.1	6050.3
7.5°	8488.0	8290.2	8001.2	7381.3	6670.2	6035.1	5495.1	5179.5	4822.0	4700.3	4483.6
10°	7738.8	7784.4	7358.5	6487.7	5628.2	5114.8	4780.2	4476.0	4152.7	3939.8	3631.7
12.5°	7499.2	7350.9	7023.9	5947.7	5213.7	4734.5	4327.6	3951.2	3608.9	3266.6	2970.0
15°	7655.1	7427.0	6970.6	5833.6	4894.3	4297.2	3787.6	3278.1	2962.4	2525.1	2217.1
17.5°	8214.2	8031.6	7419.4	5955.3	4730.7	3878.9	3122.1	2597.3	2114.4	1718.9	1563.0
20°	9145.9	8887.3	8119.1	6111.2	4487.4	3373.1	2532.7	1886.2	1429.9	1262.5	1175.1
22.5°	10058.5	9917.8	8948.1	6411.6	4270.6	2924.4	1901.4	1270.2	1068.6	1038.2	981.1
25°	11796.4	11374.3	10214.5	6955.4	4103.3	2502.3	1433.7	1023.0	905.1	882.3	889.9
27.5°	12830.8	12477.2	11385.7	7316.7	3916.9	2179.0	1213.1	939.3	859.4	810.0	791.0
30°	13823.4	13412.7	11967.6	7529.6	3517.6	1836.8	1076.2	901.3	882.3	810.0	787.2
32.5°	14587.7	14184.6	12808.0	7849.1	3354.1	1616.2	886.1	703.5	654.1	646.5	714.9
35°	15759.0	15329.3	13526.7	8024.0	3228.6	1502.1	768.2	627.5	570.4	547.6	551.4
37.5°	16850.4	16557.6	14192.2	8092.5	3095.5	1467.9	688.3	562.8	513.4	498.2	494.4
40°	17763.1	17109.0	14823.5	8164.7	3038.5	1403.3	638.9	513.4	479.2	456.3	456.3
42.5°	18181.4	17515.9	15530.8	8122.9	3023.3	1300.6	638.9	471.6	444.9	422.1	418.3
45°	18090.2	17820.2	15846.5	8103.9	3023.3	1197.9	581.8	460.1	422.1	391.7	384.1
47.5°	18325.9	17972.3	16242.0	8183.7	2962.4	1125.6	490.6	483.0	399.3	361.3	353.7
50°	18367.8	18436.2	16930.3	8598.2	2829.3	1034.4	384.1	475.4	384.1	327.0	319.4
52°	18641.6	18215.7	17139.4	8818.8	2688.6	965.9	323.2	406.9	368.9	304.2	296.6
52.5°	18265.1	18542.7	17188.9	8898.7	2703.8	920.3	311.8	399.3	361.3	304.2	285.2
55°	17843.0	18109.2	16987.3	9069.8	2479.5	722.5	243.4	289.0	327.0	266.2	254.8
57.5°	15508.0	15778.0	14762.7	8305.4	2019.3	509.6	201.6	216.8	289.0	247.2	235.8
60°	13785.3	13591.4	12389.7	6928.8	1433.7	285.2	159.7	167.3	315.6	228.2	224.4
62.5°	12598.8	12184.3	10355.2	5350.6	874.7	190.1	125.5	129.3	243.4	213.0	213.0
65°	9320.8	8856.8	6879.4	3236.2	429.7	133.1	95.1	102.7	152.1	182.5	182.5
67.5°	5320.2	5141.5	3323.7	1460.3	178.7	83.7	72.3	79.9	117.9	148.3	140.7
70°	2445.2	2194.2	1277.8	308.0	83.7	57.0	57.0	64.6	95.1	110.3	102.7
72.5°	714.9	676.9	311.8	49.4	34.2	34.2	38.0	49.4	72.3	83.7	76.1
75°	53.2	34.2	22.8	15.2	15.2	22.8	30.4	49.4	72.3	79.9	64.6
77.5°	3.8	7.6	3.8	3.8	11.4	22.8	34.2	60.8	95.1	98.9	72.3
80°	3.8	3.8	0.0	3.8	11.4	22.8	38.0	68.5	106.5	114.1	60.8
82.5°	0.0	0.0	0.0	3.8	15.2	30.4	45.6	72.3	98.9	121.7	64.6
85°	0.0	0.0	0.0	3.8	22.8	41.8	53.2	19.0	11.4	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°	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1
2.5°	8176.1	8077.3	8039.2	8073.5	8062.0	8050.6	8259.8	8214.2	8206.6	8275.0	8259.8
5°	6137.8	5962.9	6442.0	6248.1	6449.6	6571.3	6594.1	6605.6	6746.3	6597.9	6791.9
7.5°	4373.3	4418.9	4415.1	4544.4	4776.4	4981.7	5103.4	5008.4	5000.7	4981.7	4898.1
10°	3494.8	3415.0	3399.7	3369.3	3441.6	3616.5	3764.8	3646.9	3563.3	3677.4	3643.1
12.5°	2855.9	2745.7	2684.8	2563.1	2566.9	2684.8	2684.8	2684.8	2768.5	2833.1	2882.6
15°	2190.4	2099.2	2099.2	1977.5	1950.9	1954.7	2015.5	2023.1	2156.2	2194.2	2213.3
17.5°	1532.5	1483.1	1540.2	1589.6	1559.2	1566.8	1589.6	1597.2	1616.2	1601.0	1639.0
20°	1178.9	1171.3	1186.5	1274.0	1338.6	1376.6	1350.0	1312.0	1289.2	1235.9	1235.9
22.5°	1000.1	1015.4	1042.0	1114.2	1197.9	1220.7	1190.3	1102.8	1034.4	1026.8	1030.6
25°	889.9	905.1	946.9	992.5	1038.2	1076.2	1045.8	981.1	943.1	908.9	908.9
27.5°	821.4	829.0	851.8	886.1	924.1	954.5	943.1	908.9	867.0	851.8	817.6
30°	768.2	779.6	806.2	813.8	848.0	863.2	844.2	836.6	810.0	791.0	779.6
32.5°	741.6	737.8	756.8	764.4	768.2	779.6	756.8	768.2	764.4	734.0	722.5
35°	559.0	589.4	638.9	680.7	692.1	707.3	703.5	688.3	646.5	612.3	570.4
37.5°	502.0	521.0	547.6	581.8	627.5	646.5	638.9	600.9	551.4	528.6	521.0
40°	463.9	475.4	498.2	521.0	566.6	600.9	574.2	540.0	502.0	483.0	471.6
42.5°	429.7	433.5	444.9	467.8	502.0	555.2	509.6	463.9	448.7	437.3	429.7
45°	391.7	391.7	406.9	418.3	456.3	505.8	460.1	418.3	410.7	403.1	399.3
47.5°	361.3	365.1	372.7	387.9	418.3	452.5	422.1	387.9	368.9	365.1	357.5
50°	323.2	327.0	342.3	357.5	395.5	414.5	395.5	357.5	338.5	327.0	327.0
52°	292.8	304.2	319.4	349.9	376.5	406.9	384.1	342.3	319.4	308.0	300.4
52.5°	289.0	296.6	311.8	346.1	376.5	403.1	380.3	338.5	311.8	304.2	296.6
55°	258.6	270.0	296.6	338.5	372.7	403.1	372.7	334.7	296.6	277.6	270.0
57.5°	247.2	254.8	289.0	342.3	368.9	403.1	372.7	334.7	296.6	262.4	254.8
60°	235.8	251.0	289.0	330.8	365.1	406.9	376.5	330.8	289.0	247.2	247.2
62.5°	224.4	235.8	285.2	323.2	349.9	391.7	361.3	323.2	277.6	235.8	232.0
65°	193.9	213.0	251.0	270.0	300.4	338.5	308.0	281.4	243.4	209.2	205.4
67.5°	148.3	155.9	186.3	209.2	228.2	262.4	247.2	213.0	186.3	159.7	159.7
70°	102.7	110.3	133.1	144.5	163.5	182.5	171.1	144.5	125.5	110.3	106.5
72.5°	72.3	76.1	83.7	91.3	98.9	106.5	102.7	83.7	72.3	68.5	64.6
75°	57.0	64.6	68.5	64.6	60.8	57.0	57.0	49.4	41.8	38.0	38.0
77.5°	57.0	60.8	57.0	49.4	41.8	38.0	34.2	30.4	22.8	19.0	22.8
80°	49.4	49.4	49.4	41.8	38.0	34.2	30.4	26.6	22.8	19.0	19.0
82.5°	53.2	53.2	49.4	41.8	41.8	34.2	34.2	30.4	26.6	19.0	19.0
85°	0.0	0.0	0.0	7.6	19.0	34.2	34.2	30.4	26.6	22.8	22.8
87.5°	0.0	0.0	0.0	0.0	3.8	7.6	15.2	19.0	22.8	22.8	22.8
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°	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1
2.5°	8396.7	8541.2	8815.0	9088.8	9256.1	9453.9	9811.4	10001.5	10248.7	10370.4	10610.0
5°	6765.3	7107.5	7229.2	7541.1	7875.7	8210.4	8742.8	9328.4	9815.2	10149.8	10583.3
7.5°	4936.1	5016.0	5487.5	5696.7	6244.3	6852.7	7579.1	8316.8	8932.9	9480.5	9811.4
10°	3700.2	3993.0	4289.6	4688.9	5130.0	5757.5	6453.4	7267.2	8065.8	8613.5	9031.8
12.5°	2973.8	3205.8	3601.3	4031.0	4574.8	4989.3	5689.1	6495.3	7529.6	8065.8	8617.3
15°	2251.3	2547.9	2996.6	3441.6	4015.8	4453.1	5160.5	6175.8	7506.8	8244.6	8719.9
17.5°	1669.5	1871.0	2274.1	2772.3	3357.9	3974.0	4928.5	6141.6	7761.6	8640.1	9130.6
20°	1277.8	1346.2	1601.0	2045.9	2681.0	3487.2	4552.0	6289.9	8514.6	9602.2	10100.4
22.5°	1034.4	1064.8	1163.7	1471.7	2087.8	3061.3	4373.3	6392.6	9362.6	10754.5	11420.0
25°	901.3	893.7	958.3	1091.4	1631.4	2662.0	4145.1	6780.5	10400.8	12108.3	12705.3
27.5°	821.4	821.4	851.8	946.9	1353.8	2403.4	4000.6	7058.1	11446.6	13298.6	13621.8
30°	779.6	787.2	874.7	905.1	1125.6	2095.4	3761.0	7339.5	12446.7	14059.1	14504.1
32.5°	722.5	692.1	673.1	749.2	946.9	1817.8	3521.4	7457.4	13256.7	14990.8	15371.1
35°	555.2	540.0	562.8	619.9	813.8	1582.0	3255.2	7590.5	14188.4	16070.8	16146.9
37.5°	502.0	498.2	513.4	562.8	684.5	1376.6	3065.1	7556.3	14899.6	16964.5	16759.2
40°	463.9	463.9	475.4	517.2	612.3	1232.1	2867.3	7525.8	15587.9	17968.5	17367.6
42.5°	433.5	433.5	452.5	479.2	581.8	1137.1	2719.0	7484.0	16165.9	18584.5	17725.1
45°	391.7	403.1	433.5	460.1	589.4	1072.4	2608.8	7324.3	16363.7	18576.9	17554.0
47.5°	361.3	376.5	406.9	444.9	532.4	1053.4	2532.7	7183.6	16295.2	18120.6	17017.8
50°	327.0	346.1	387.9	452.5	452.5	1015.4	2452.8	7309.1	16245.8	17766.9	16504.4
52°	304.2	319.4	372.7	441.1	395.5	935.5	2403.4	7552.5	16447.3	17721.3	16276.2
52.5°	300.4	311.8	361.3	433.5	376.5	920.3	2369.2	7609.5	16512.0	17607.2	16432.1
55°	266.2	281.4	330.8	338.5	308.0	756.8	2258.9	7738.8	16192.5	17382.8	16283.8
57.5°	251.0	258.6	292.8	277.6	266.2	570.4	1943.3	7537.2	14382.4	15439.6	15150.6
60°	232.0	239.6	273.8	216.8	224.4	399.3	1460.3	6544.7	11549.3	12865.0	13386.0
62.5°	224.4	220.6	258.6	174.9	190.1	289.0	1030.6	5320.2	8898.7	10590.9	11492.2
65°	197.7	193.9	186.3	148.3	163.5	224.4	616.1	3472.0	6270.9	8012.6	8507.0
67.5°	152.1	159.7	136.9	117.9	136.9	174.9	342.3	1555.4	3289.5	4806.8	5206.1
70°	106.5	114.1	110.3	102.7	121.7	144.5	197.7	532.4	1361.4	2525.1	2783.7
72.5°	64.6	79.9	83.7	87.5	106.5	125.5	140.7	171.1	361.3	893.7	1110.4
75°	38.0	53.2	64.6	76.1	87.5	106.5	117.9	121.7	125.5	167.3	270.0
77.5°	26.6	38.0	57.0	72.3	87.5	106.5	125.5	133.1	125.5	117.9	125.5
80°	22.8	38.0	53.2	68.5	91.3	110.3	125.5	125.5	121.7	106.5	114.1
82.5°	22.8	38.0	57.0	72.3	87.5	106.5	121.7	125.5	114.1	106.5	110.3
85°	26.6	41.8	60.8	76.1	95.1	87.5	79.9	64.6	60.8	49.4	53.2
87.5°	26.6	38.0	38.0	41.8	45.6	45.6	45.6	41.8	34.2	30.4	30.4
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: P533541

CATALOG NUMBER: GALN-SA9A-727-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1	9720.1
2.5°	10621.4	10925.6	10914.2	10921.8	10876.2	10568.1	10419.8	10043.3	10149.8	10104.2
5°	11028.3	11328.7	11587.3	11556.9	11207.0	10788.7	10168.8	9583.2	9423.5	9187.7
7.5°	10621.4	11343.9	11583.5	11549.3	11032.1	10495.9	9507.1	8921.5	8643.9	8488.0
10°	9974.9	10811.5	11108.1	11169.0	10819.1	10005.3	9096.4	8157.1	8008.8	7738.8
12.5°	9606.0	10214.5	10397.0	10560.5	10438.8	9830.4	8784.6	7883.3	7678.0	7499.2
15°	9305.6	9666.8	9742.9	9929.2	10001.5	9674.5	8948.1	8179.9	7674.2	7655.1
17.5°	9583.2	9434.9	9157.3	9214.3	9442.5	9678.3	9370.2	8765.6	8275.0	8214.2
20°	10043.3	9389.2	8761.8	8902.5	9092.6	9815.2	10009.1	9583.2	9301.8	9145.9
22.5°	10571.9	9469.1	8636.3	8704.7	9066.0	10123.2	11043.5	10807.7	10282.9	10058.5
25°	11549.3	9689.7	8735.1	8780.8	9275.2	10552.9	11979.0	12153.9	11842.1	11796.4
27.5°	12503.8	10260.1	8951.9	8849.2	9381.6	10971.2	12545.6	13484.9	12937.3	12830.8
30°	12990.5	10724.0	9275.2	9100.2	9822.8	11226.0	12887.9	14352.0	13872.8	13823.4
32.5°	13735.9	11146.2	9526.1	9301.8	10069.9	11541.7	13526.7	15298.9	14834.9	14587.7
35°	14047.7	11606.3	10077.6	9815.2	10777.3	11982.8	13853.8	16143.1	15998.6	15759.0
37.5°	14648.6	12100.7	10727.8	10712.6	11632.9	12557.0	14443.2	17291.6	17264.9	16850.4
40°	14698.0	12640.7	11754.6	12233.8	12956.3	13557.2	14960.4	17611.0	18044.5	17763.1
42.5°	14774.1	13587.6	13530.5	13926.0	14545.9	14416.6	14979.4	17687.1	18348.8	18181.4
45°	14808.3	14534.5	15336.9	16067.0	16325.6	15542.2	14800.7	17542.5	18508.5	18090.2
47.5°	14534.5	15348.3	16797.2	18208.0	18284.1	16234.4	14724.6	17394.2	18603.5	18325.9
50°	14572.5	15857.9	18059.7	19322.3	19044.7	16846.6	14606.7	17303.0	18554.1	18367.8
52°	14481.3	15869.3	18238.5	19299.5	19105.5	16508.2	14405.2	16953.1	18508.5	18641.6
52.5°	14583.9	15800.8	18052.1	19314.7	19063.7	16675.5	14378.6	17147.1	18535.1	18265.1
55°	14230.3	14987.0	16960.7	17496.9	17458.9	15135.3	13561.0	16504.4	17839.2	17843.0
57.5°	12861.2	12990.5	13302.4	13291.0	13116.0	11899.1	11598.7	15177.2	15903.5	15508.0
60°	11332.5	9510.9	8670.5	8328.2	8134.3	7936.5	10260.1	13884.2	13952.7	13785.3
62.5°	9792.3	6594.1	5476.1	5381.0	5426.7	6149.2	9917.8	13370.8	12960.1	12598.8
65°	7902.3	4806.8	3977.8	3852.3	4297.2	5076.8	8027.8	10252.5	9621.2	9320.8
67.5°	4962.7	3506.2	2688.6	2452.8	2989.0	3494.8	5274.6	6442.0	5734.7	5320.2
70°	2943.4	1958.5	1216.9	1091.4	1228.3	1863.4	2954.8	3213.4	2658.2	2445.2
72.5°	1159.9	718.7	338.5	289.0	300.4	654.1	1087.6	1061.0	802.4	714.9
75°	311.8	216.8	117.9	95.1	79.9	121.7	174.9	114.1	41.8	53.2
77.5°	144.5	129.3	102.7	79.9	60.8	45.6	22.8	7.6	7.6	3.8
80°	125.5	110.3	95.1	79.9	60.8	38.0	19.0	3.8	3.8	3.8
82.5°	117.9	102.7	87.5	72.3	57.0	38.0	19.0	3.8	0.0	0.0
85°	49.4	64.6	72.3	68.5	60.8	38.0	19.0	3.8	0.0	0.0
87.5°	26.6	22.8	19.0	15.2	11.4	7.6	7.6	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

(END OF REPORT)