

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: P458208

Luminaire Tested: **GALN-SA9C-760-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45771 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

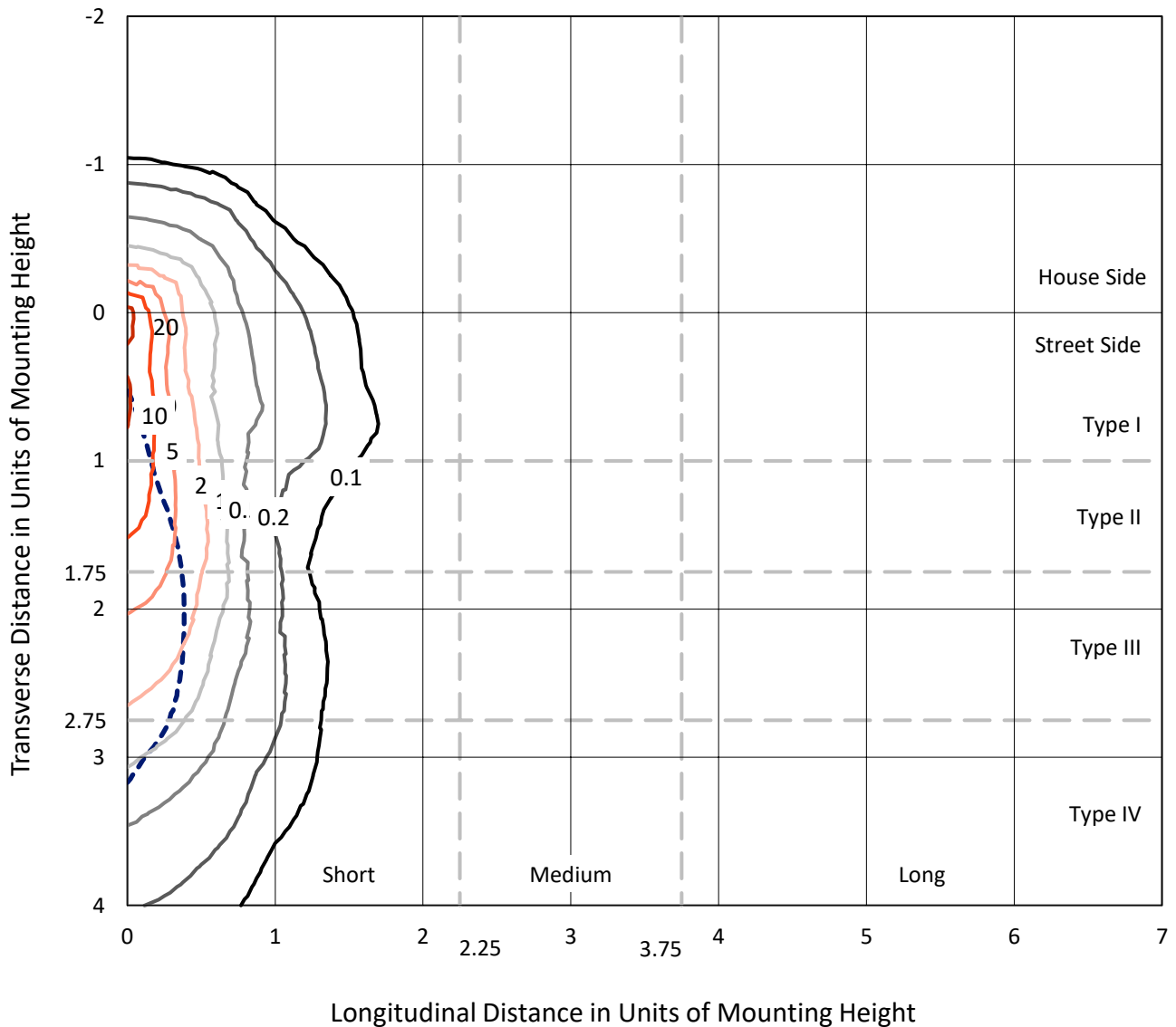
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

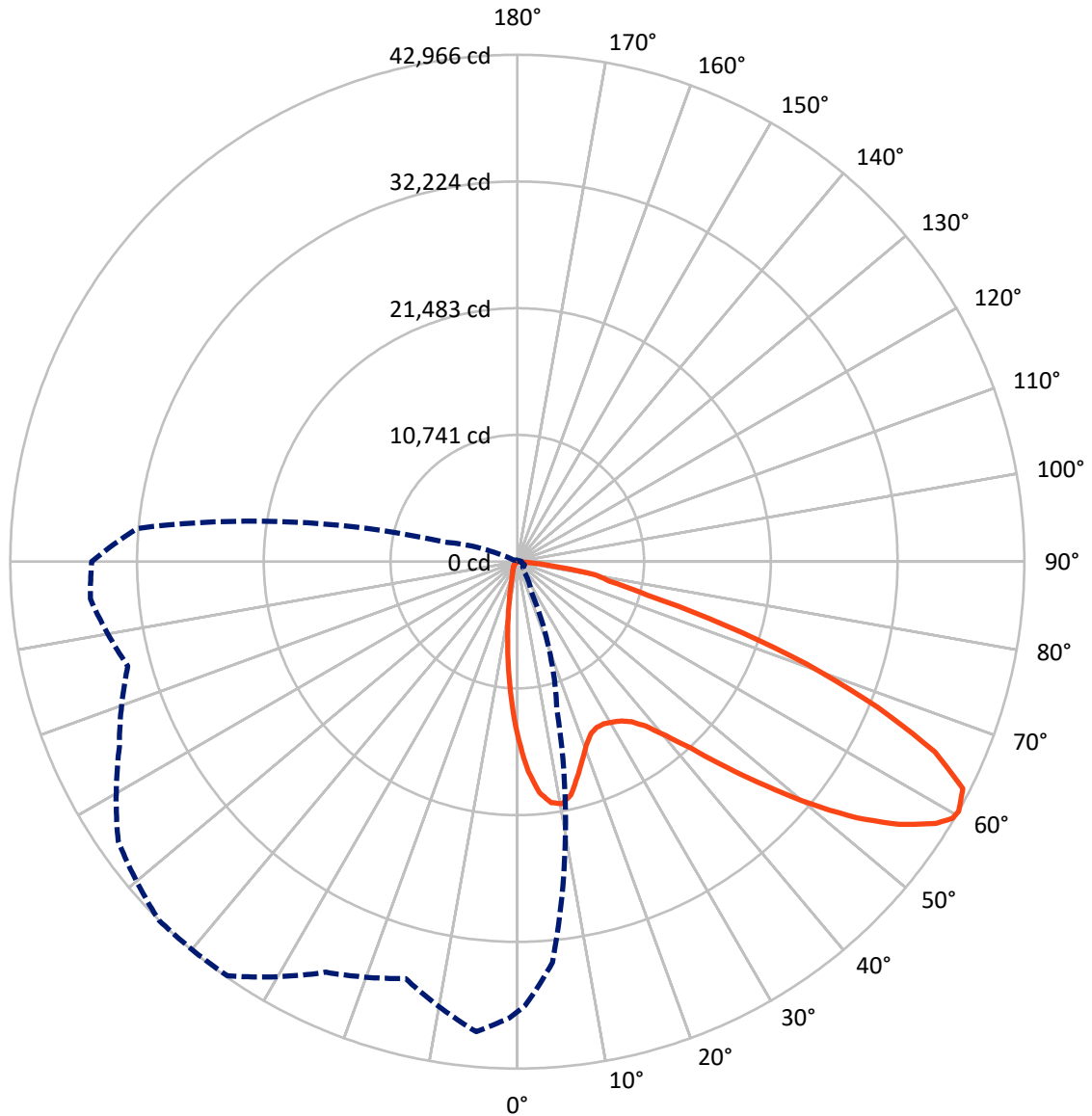
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5645.4	0.0	5645.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	40125.6	0.0	40125.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	45771.0	0.0	45771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1125.2	2.5
10°-20°	2234.6	4.9
20°-30°	3276.5	7.2
30°-40°	4872.7	10.6
40°-50°	7091.4	15.5
50°-60°	10226.3	22.3
60°-70°	11247.9	24.6
70°-80°	5038.1	11.0
80°-90°	658.3	1.4
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°	45771.0	100.0
0°-180°	45771.0	100.0

Coefficient of Utilization



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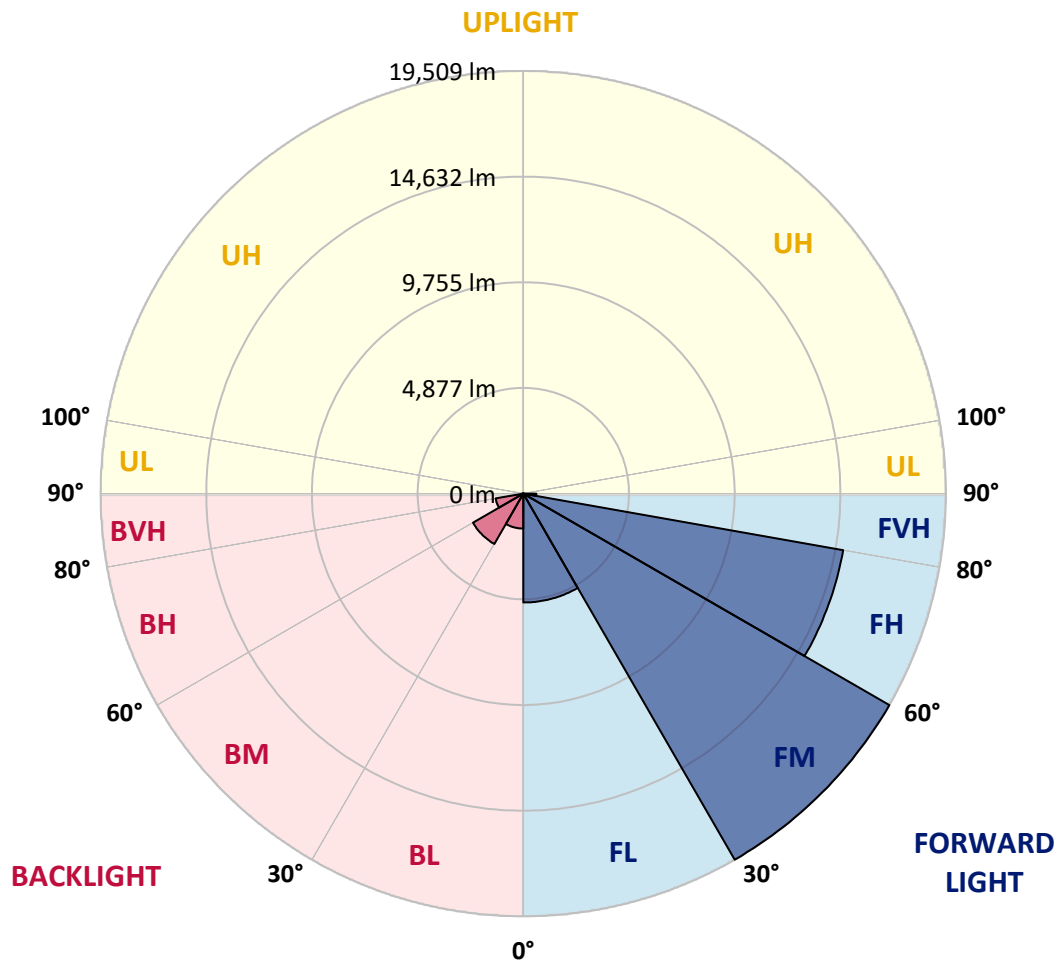
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5023.2	11.0			
FM	(30°-60°)	19509.0	42.6			
FH	(60°-80°)	14991.4	32.8			G5
FVH	(80°-90°)	602.0	1.3			G4/750
BL	(0°-30°)	1613.1	3.5	B3/2500		
BM	(30°-60°)	2681.4	5.9	B3/5000		
BH	(60°-80°)	1294.6	2.8	B3/2500		G3/2500
BVH	(80°-90°)	56.3	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0
2.5°	16631.0	16558.0	16391.0	15883.0	15441.1	14863.5	14279.0	13819.8	13537.9	13019.5	12782.9
5°	16112.6	16147.4	15663.8	14620.0	13457.9	12664.6	11798.3	11109.4	10350.9	9870.8	9366.3
7.5°	14759.2	14689.6	14164.2	12709.9	11297.3	10149.1	9053.1	8162.4	7602.3	7153.4	6777.7
10°	13600.6	13548.4	12876.9	11005.0	9488.0	8628.6	7887.6	7108.2	6506.3	5848.7	5323.3
12.5°	12873.4	12755.1	11982.7	10027.3	8792.2	7991.9	7184.7	6374.1	5542.5	4878.0	4241.3
15°	12629.8	12459.4	11600.0	9689.8	8346.8	7330.9	6318.4	5385.9	4429.1	3695.0	3214.9
17.5°	13071.7	12789.9	11874.8	9630.7	7814.5	6468.0	5222.4	4008.1	3013.1	2452.9	2157.2
20°	14084.2	13760.6	12570.7	9571.5	7223.0	5500.8	3969.9	2832.1	2084.1	1777.9	1614.4
22.5°	15587.2	15141.9	13600.6	9665.5	6676.8	4557.9	2866.9	2000.6	1656.1	1464.8	1350.0
25°	17393.0	17020.7	14905.3	9999.5	6245.3	3816.8	2216.3	1635.3	1395.2	1276.9	1189.9
27.5°	19372.7	18777.7	16592.8	10399.6	5852.2	3242.7	1944.9	1461.3	1242.1	1134.2	1089.0
30°	20781.8	20319.1	18005.3	10678.0	5361.6	2811.3	1777.9	1440.4	1245.6	1116.9	1033.4
32.5°	22173.5	21582.1	19188.3	10806.7	5003.2	2512.1	1537.8	1256.0	1092.5	1026.4	942.9
35°	23662.7	23043.4	20367.8	10737.1	4735.3	2313.7	1395.2	1120.3	935.9	824.6	741.1
37.5°	25169.2	24515.1	21540.3	10486.6	4568.3	2233.7	1283.9	1064.7	883.7	768.9	678.5
40°	26957.6	26084.3	22639.8	10281.3	4394.3	2192.0	1210.8	1029.9	845.5	723.7	633.2
42.5°	28418.9	27587.3	23680.1	10173.5	4276.1	2094.5	1210.8	1002.0	821.1	685.4	591.5
45°	29803.6	28940.8	24803.9	10260.4	4227.3	1972.8	1224.7	998.6	803.7	657.6	563.6
47.5°	30962.2	30214.2	25959.0	10587.5	4164.7	1840.5	1151.6	1047.3	793.3	633.2	535.8
50°	32329.6	31605.9	27486.4	11248.6	4053.4	1708.3	1061.2	1127.3	789.8	612.4	511.5
52.5°	34257.1	33474.3	29594.9	12000.1	3875.9	1506.5	977.7	1116.9	775.9	577.6	487.1
55°	36612.6	35979.4	32037.3	12901.2	3632.4	1280.4	845.5	991.6	734.1	518.4	445.3
57.5°	38122.6	37583.3	33867.4	13290.9	3260.1	1047.3	744.6	831.6	671.5	462.7	396.6
59°	38300.1	37813.0	34250.2	13162.2	3016.5	956.8	695.9	713.3	654.1	431.4	368.8
60°	38150.5	37646.0	34097.1	12911.7	2790.4	894.2	654.1	633.2	657.6	414.0	347.9
62.5°	37190.2	36327.3	32611.4	11641.7	2439.0	821.1	581.0	518.4	581.0	372.3	309.7
65°	35335.7	34041.4	29671.4	9853.4	2299.8	779.4	494.1	434.9	441.9	327.1	267.9
67.5°	32096.5	30464.7	25757.2	8005.9	2240.7	782.8	417.5	389.7	341.0	278.3	236.6
70°	26975.0	25346.7	20667.0	6586.3	2212.8	782.8	354.9	334.0	285.3	233.1	205.3
72.5°	19115.2	17361.7	13941.5	5173.7	1993.6	779.4	302.7	302.7	233.1	194.8	167.0
75°	10799.7	10813.6	8764.3	3660.2	1656.1	643.7	243.6	240.1	170.5	149.6	125.3
77.5°	6294.0	6182.7	5907.8	1572.6	768.9	292.3	170.5	146.1	118.3	107.9	90.5
80°	3235.7	2661.7	2592.1	570.6	274.9	184.4	118.3	83.5	76.5	69.6	62.6
82.5°	956.8	960.3	855.9	229.6	153.1	121.8	59.1	45.2	41.8	38.3	38.3
85°	66.1	41.8	48.7	69.6	93.9	48.7	3.5	10.4	10.4	13.9	17.4
87.5°	7.0	3.5	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°	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0
2.5°	12522.0	12675.1	12389.8	12396.7	12160.1	12236.7	11958.3	12048.8	11885.3	12010.5	12379.3
5°	9421.9	9456.7	9227.1	9154.0	9188.8	9331.5	9387.1	9133.1	9241.0	9028.8	9014.9
7.5°	6638.5	6680.2	6548.0	6530.6	6781.1	6722.0	6829.9	6568.9	6321.9	6429.7	6231.4
10°	5156.3	4982.3	4711.0	4634.4	4585.7	4617.0	4617.0	4380.4	4345.6	4251.7	4394.3
12.5°	4070.8	3858.5	3601.1	3253.1	3166.2	3159.2	3030.5	2821.7	2755.6	2675.6	2793.9
15°	2957.4	2870.4	2654.7	2459.9	2261.5	2223.3	2014.5	1844.0	1617.9	1586.6	1576.1
17.5°	2080.6	1951.9	1948.4	1837.1	1722.3	1645.7	1450.9	1256.0	1169.0	1158.6	1158.6
20°	1558.7	1513.5	1440.4	1426.5	1391.7	1304.7	1130.8	1026.4	984.6	988.1	1002.0
22.5°	1311.7	1280.4	1214.3	1183.0	1169.0	1092.5	963.8	894.2	873.3	873.3	876.8
25°	1172.5	1144.7	1071.6	1022.9	1005.5	949.8	848.9	796.8	779.4	779.4	779.4
27.5°	1068.1	1033.4	956.8	915.1	883.7	821.1	758.5	706.3	688.9	688.9	692.4
30°	995.1	956.8	887.2	831.6	782.8	727.2	675.0	629.8	608.9	605.4	608.9
32.5°	897.7	862.9	793.3	758.5	702.8	636.7	595.0	553.2	532.3	535.8	532.3
35°	699.3	688.9	640.2	650.6	619.3	563.6	525.4	480.1	455.8	452.3	459.3
37.5°	636.7	595.0	539.3	542.8	532.3	511.5	448.8	400.1	382.7	382.7	386.2
40°	588.0	546.2	483.6	452.3	455.8	455.8	389.7	337.5	320.1	316.6	323.6
42.5°	546.2	504.5	434.9	382.7	368.8	386.2	330.5	278.3	260.9	254.0	260.9
45°	518.4	473.2	393.2	334.0	292.3	313.1	271.4	229.6	208.8	208.8	205.3
47.5°	490.6	448.8	361.8	288.8	243.6	233.1	222.7	184.4	163.5	160.0	163.5
50°	466.2	424.5	327.1	250.5	205.3	180.9	180.9	146.1	132.2	125.3	128.7
52.5°	441.9	396.6	295.7	222.7	177.4	146.1	128.7	118.3	107.9	104.4	107.9
55°	407.1	361.8	264.4	191.4	153.1	121.8	100.9	97.4	90.5	83.5	90.5
57.5°	365.3	323.6	233.1	163.5	121.8	93.9	83.5	80.0	73.1	69.6	69.6
59°	341.0	302.7	215.7	142.7	107.9	83.5	76.5	73.1	66.1	59.1	62.6
60°	327.1	295.7	205.3	132.2	97.4	76.5	69.6	66.1	59.1	55.7	59.1
62.5°	288.8	264.4	180.9	107.9	76.5	55.7	48.7	52.2	48.7	45.2	48.7
65°	254.0	233.1	153.1	83.5	59.1	38.3	34.8	45.2	41.8	38.3	41.8
67.5°	226.2	201.8	128.7	62.6	41.8	20.9	24.4	38.3	38.3	34.8	38.3
70°	194.8	174.0	104.4	45.2	20.9	10.4	17.4	27.8	34.8	31.3	34.8
72.5°	160.0	135.7	80.0	31.3	10.4	0.0	10.4	24.4	34.8	31.3	34.8
75°	125.3	100.9	59.1	17.4	0.0	0.0	3.5	20.9	34.8	31.3	34.8
77.5°	90.5	73.1	34.8	3.5	0.0	0.0	3.5	20.9	34.8	31.3	34.8
80°	59.1	52.2	13.9	0.0	0.0	0.0	3.5	20.9	34.8	34.8	38.3
82.5°	38.3	27.8	0.0	0.0	0.0	0.0	7.0	27.8	38.3	41.8	41.8
85°	17.4	0.0	0.0	0.0	0.0	0.0	13.9	34.8	45.2	45.2	45.2
87.5°	0.0	0.0	0.0	0.0	0.0	7.0	24.4	41.8	52.2	52.2	52.2
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°	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0
2.5°	12442.0	12661.2	12970.8	13447.5	13833.7	14442.5	14908.8	15545.5	16189.2	16384.0	16686.7
5°	9157.5	9439.3	10142.1	10782.3	11185.9	12473.3	13287.4	14571.3	15722.9	16276.1	16878.1
7.5°	6360.1	6694.2	7230.0	8124.2	8973.1	10020.4	11335.5	12803.8	14491.3	15281.1	16130.0
10°	4463.9	4881.4	5636.5	6370.6	7438.7	8433.8	9731.6	11352.9	13214.4	14146.8	15211.5
12.5°	2818.2	3190.5	4189.1	5013.7	6346.2	7501.4	8698.2	10166.5	12323.7	13280.5	14397.3
15°	1610.9	1924.0	2390.3	3448.0	4926.7	6454.1	7946.7	9651.6	11867.9	13047.4	14254.7
17.5°	1200.4	1283.9	1492.6	2091.1	3437.5	5222.4	7254.3	9495.0	12177.5	13562.3	14940.1
20°	1009.0	1064.7	1162.1	1398.7	2192.0	4022.1	6579.3	9522.8	13179.6	14919.2	16227.4
22.5°	904.6	939.4	1019.4	1172.5	1496.1	2929.6	5789.5	9686.4	14393.8	16585.8	18095.8
25°	793.3	838.5	908.1	1040.3	1245.6	2031.9	5010.2	10051.7	16095.2	18701.2	20120.8
27.5°	706.3	748.0	817.6	939.4	1092.5	1551.8	4102.1	10364.8	17890.5	20830.5	21992.6
30°	619.3	661.1	730.7	828.1	967.2	1256.0	3124.4	10549.2	19633.7	22427.5	23321.7
32.5°	546.2	581.0	647.1	734.1	848.9	1064.7	2463.3	10357.9	20966.2	23878.4	24476.8
35°	473.2	514.9	570.6	650.6	751.5	908.1	2049.3	9696.8	22110.9	25371.0	25586.7
37.5°	396.6	445.3	504.5	577.6	657.6	835.0	1645.7	8966.1	23335.6	27232.4	26877.5
40°	334.0	379.2	434.9	514.9	588.0	765.4	1266.5	8186.8	24657.8	28979.0	28286.7
42.5°	271.4	320.1	386.2	459.3	581.0	668.0	981.2	7379.6	25844.2	30499.5	29560.1
45°	215.7	257.5	327.1	421.0	577.6	574.1	758.5	6582.8	26738.4	31585.0	30509.9
47.5°	170.5	205.3	274.9	410.6	532.3	487.1	608.9	6088.8	27677.8	32562.7	31237.1
50°	135.7	170.5	236.6	428.0	466.2	417.5	511.5	6168.8	28585.9	33060.3	31536.3
52.5°	114.8	149.6	205.3	337.5	358.4	365.3	448.8	6537.6	29758.4	33592.6	32131.3
55°	100.9	132.2	174.0	236.6	278.3	327.1	410.6	6805.5	31327.6	34733.8	33443.0
57.5°	80.0	114.8	156.6	201.8	229.6	285.3	379.2	6826.4	32747.1	36198.6	35186.1
59°	73.1	104.4	146.1	191.4	205.3	257.5	358.4	6648.9	32799.3	36417.8	35986.3
60°	66.1	100.9	139.2	177.4	194.8	243.6	341.0	6443.7	32326.1	36069.8	36316.9
62.5°	55.7	87.0	121.8	142.7	167.0	201.8	295.7	5699.1	30033.3	34493.7	35704.5
65°	48.7	76.5	104.4	118.3	139.2	174.0	260.9	4561.4	27500.3	32357.4	33950.9
67.5°	45.2	69.6	90.5	100.9	121.8	160.0	233.1	3221.8	24219.4	29647.1	31317.1
70°	41.8	66.1	80.0	93.9	107.9	135.7	198.3	1878.8	18656.0	24894.3	26658.3
72.5°	41.8	62.6	69.6	80.0	93.9	121.8	184.4	1016.0	12755.1	18990.0	21268.9
75°	41.8	59.1	62.6	69.6	83.5	111.3	163.5	532.3	8245.9	13193.5	16283.1
77.5°	41.8	55.7	62.6	66.1	80.0	97.4	142.7	334.0	5493.8	9241.0	11005.0
80°	45.2	55.7	59.1	66.1	76.5	90.5	118.3	222.7	3228.8	5559.9	6697.6
82.5°	48.7	55.7	62.6	69.6	80.0	87.0	104.4	139.2	1489.1	3677.6	4161.2
85°	52.2	59.1	66.1	73.1	83.5	87.0	97.4	100.9	243.6	1659.6	2244.1
87.5°	55.7	62.6	69.6	76.5	90.5	90.5	90.5	90.5	83.5	177.4	452.3
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: P458208

CATALOG NUMBER: GALN-SA9C-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0	15128.0
2.5°	17069.4	17462.6	17737.4	17807.0	17608.7	17518.2	17267.7	16878.1	16641.5	16631.0
5°	17987.9	18910.0	19550.2	19658.0	19275.3	18628.1	17859.2	16867.6	16286.6	16112.6
7.5°	17831.4	19445.8	20475.6	20625.3	19981.6	18746.4	17257.3	15660.3	15027.1	14759.2
10°	17187.7	19157.0	20628.7	20865.3	20005.9	18266.3	16373.6	14592.2	13805.8	13600.6
12.5°	16638.0	18628.1	19936.4	20263.4	19612.8	17876.6	15844.7	13906.7	13064.7	12873.4
15°	16397.9	18001.9	18802.1	18969.1	18861.3	17633.1	15789.0	13802.4	12838.6	12629.8
17.5°	16638.0	17469.5	17570.4	17740.9	17981.0	17608.7	16324.8	14369.5	13329.2	13071.7
20°	17267.7	17006.8	16589.3	16662.3	17212.1	17709.6	17278.2	15625.5	14359.0	14084.2
22.5°	18339.4	16892.0	15945.6	15883.0	16578.8	18047.1	18676.8	17326.9	15858.6	15587.2
25°	19654.5	17180.8	15709.0	15573.3	16331.8	18541.2	20197.3	19411.0	17807.0	17393.0
27.5°	21088.0	17779.2	15709.0	15576.8	16310.9	18979.5	21498.6	21255.0	19825.0	19372.7
30°	21874.3	18273.3	15935.2	15785.6	16568.4	19233.5	22194.4	22893.8	21342.0	20781.8
32.5°	22577.1	18958.7	16377.0	16095.2	17107.7	19609.3	22817.2	24285.5	22549.3	22173.5
35°	23224.3	19692.8	16985.9	16658.9	17817.5	20124.2	23506.1	25746.8	24229.8	23662.7
37.5°	23937.5	20545.2	17935.8	17657.4	19003.9	21126.3	24323.7	27667.3	25882.5	25169.2
40°	24713.4	21533.3	19498.0	19379.7	20889.7	22260.5	25357.1	29716.6	27768.2	26957.6
42.5°	25503.2	22671.1	21411.6	21606.4	23026.0	23850.6	26418.3	31292.8	29313.1	28418.9
45°	26220.0	24125.4	23899.3	24863.0	25517.1	25402.3	27204.6	32402.7	30659.5	29803.6
47.5°	27124.6	26244.3	26908.9	28394.5	28411.9	27089.8	27799.6	33310.8	31818.1	30962.2
50°	28137.0	28745.9	30795.2	32308.7	31901.6	28749.4	28495.4	34385.9	33015.0	32329.6
52.5°	29309.6	31546.8	34385.9	36066.4	35116.5	30558.6	29654.0	35547.9	34914.7	34257.1
55°	30673.5	33456.9	37966.1	39305.6	38348.8	32806.3	31414.5	37124.1	37061.4	36612.6
57.5°	32214.8	35474.9	40039.7	41852.4	41000.0	35443.6	33874.4	38609.7	38373.1	38122.6
59°	33432.5	36511.7	40954.8	42833.6	42318.7	37291.1	35527.1	39535.2	38675.8	38300.1
60°	34170.1	37214.5	41292.3	42965.8	42847.5	38390.5	36574.3	39987.5	38672.4	38150.5
62.5°	36358.6	38442.7	41163.5	42377.8	42840.5	40499.0	39646.6	40485.1	37955.6	37190.2
65°	37138.0	38035.6	39030.7	38881.1	39277.7	40391.1	41608.9	39938.8	36424.7	35335.7
67.5°	35621.0	33571.7	33923.1	32924.6	32729.7	35909.8	40812.1	37266.7	33429.1	32096.5
70°	30026.3	25718.9	25541.5	26000.8	24741.3	29073.0	36647.4	32120.8	28485.0	26975.0
72.5°	23634.8	18175.8	16679.7	18370.7	18332.4	22180.5	30443.8	22792.9	19244.0	19115.2
75°	18586.4	12654.2	11105.9	11380.8	11909.6	16056.9	24247.2	14473.9	11850.5	10799.7
77.5°	12476.7	8966.1	8364.2	8026.7	8597.3	10309.1	15340.2	7849.3	6645.5	6294.0
80°	7191.7	6513.2	7397.0	6715.0	7021.2	6495.8	7630.1	3601.1	2988.7	3235.7
82.5°	4679.7	3708.9	3952.5	2936.5	4015.1	4049.9	2449.4	1064.7	901.1	956.8
85°	2926.1	1739.6	977.7	695.9	1384.8	2546.8	765.4	66.1	76.5	66.1
87.5°	758.5	288.8	121.8	180.9	222.7	198.3	177.4	10.4	3.5	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)