

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: P458206

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458206  
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-SA9C-760-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 1050mA 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: 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 III - Short  
BUG Rating: B3 - U0 - G5

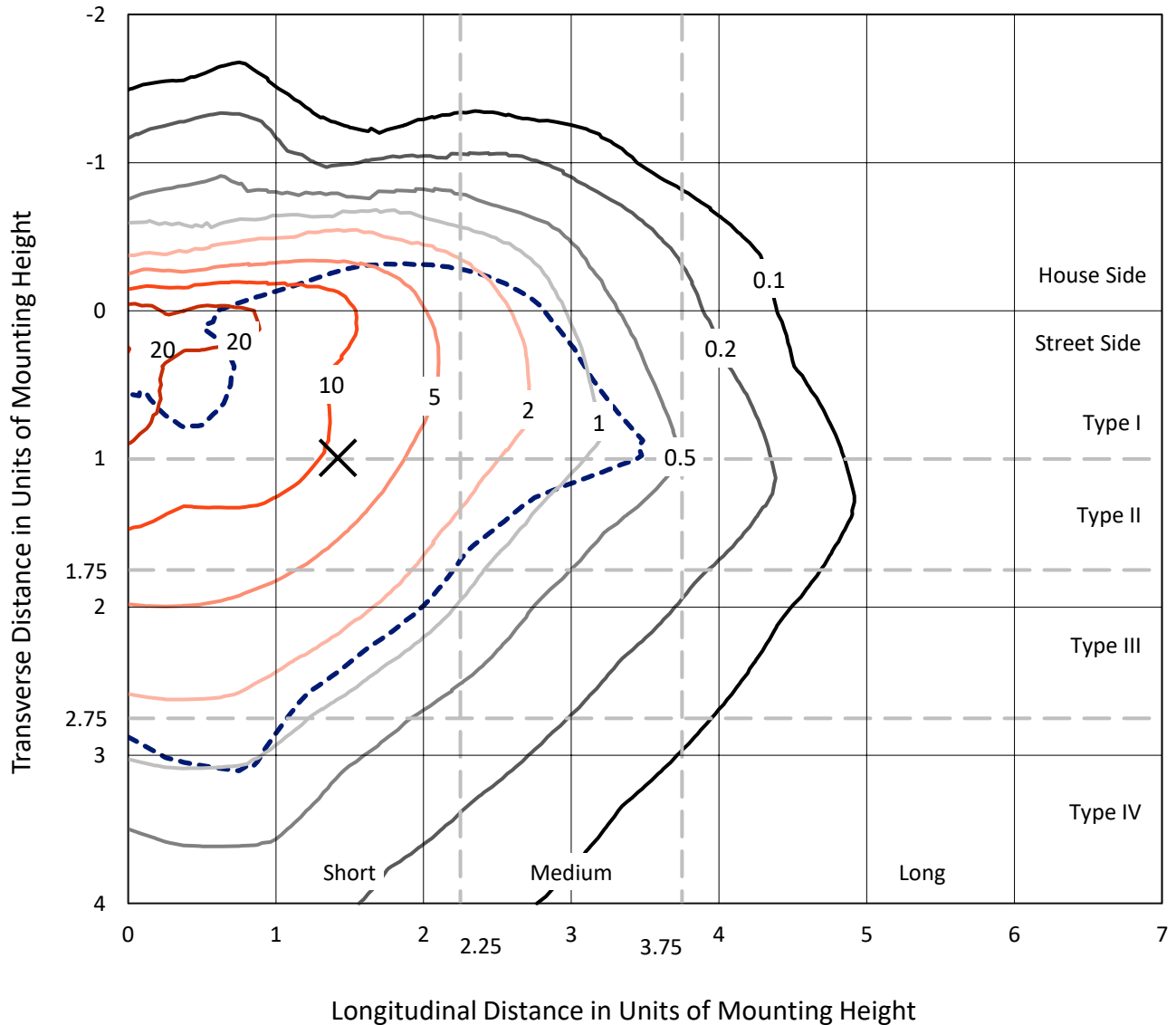
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458206  
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### Iso-Footcandle Lines of Horizontal Illumination

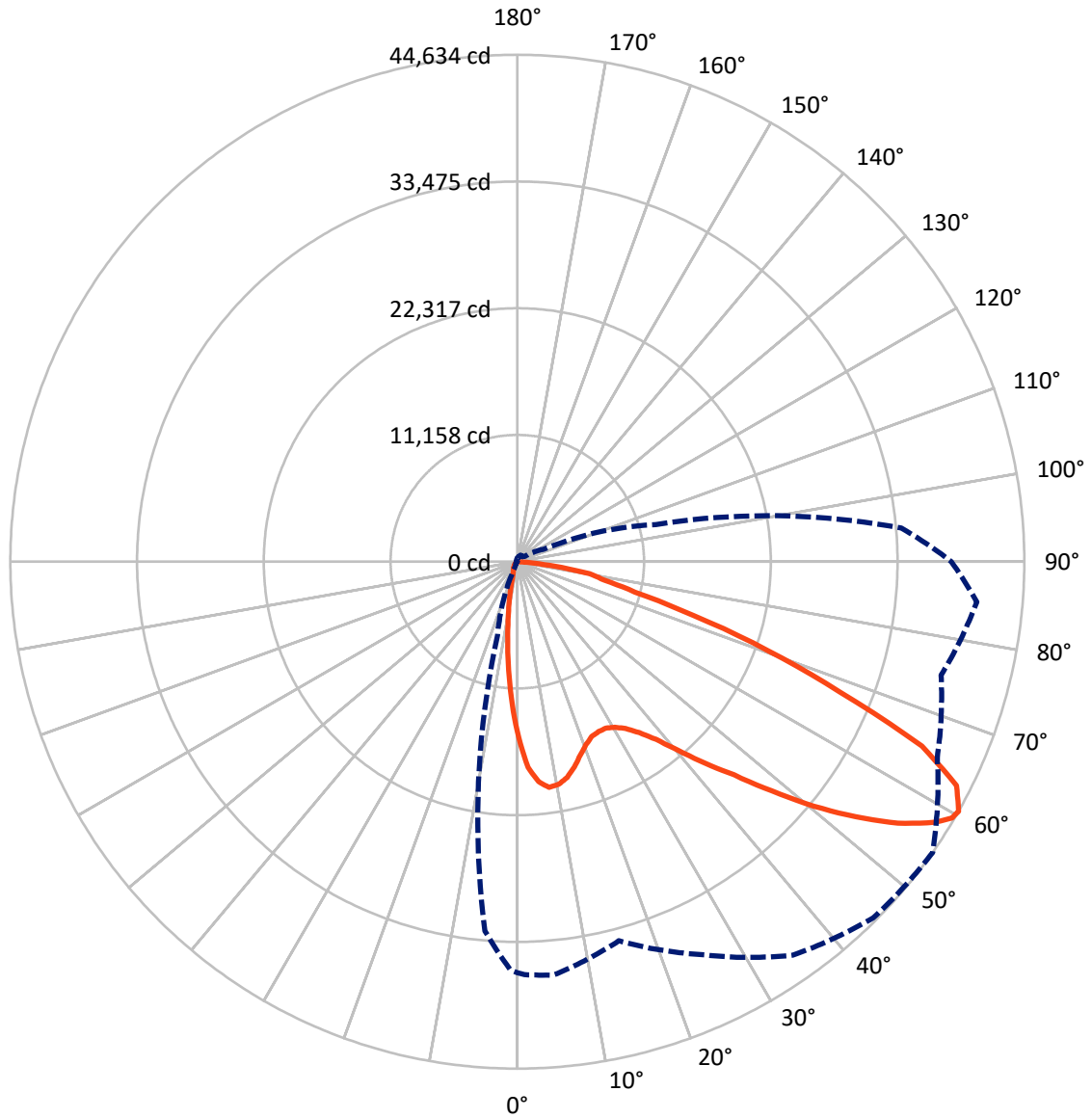
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32 fc  
 Type III - Short - N/A

REPORT NUMBER: P458206  
CATALOG NUMBER: GALN-SA9C-760-U-SLL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P458206

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

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6792.8	0.0	6792.8
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	38978.2	0.0	38978.2
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	45771.0	0.0	45771.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1147.6	2.5
10°-20°	2260.0	4.9
20°-30°	3345.2	7.3
30°-40°	4986.3	10.9
40°-50°	7302.5	16.0
50°-60°	10542.6	23.0
60°-70°	11090.3	24.2
70°-80°	4562.1	10.0
80°-90°	534.3	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°	45771.0	100.0
0°-180°	45771.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458206

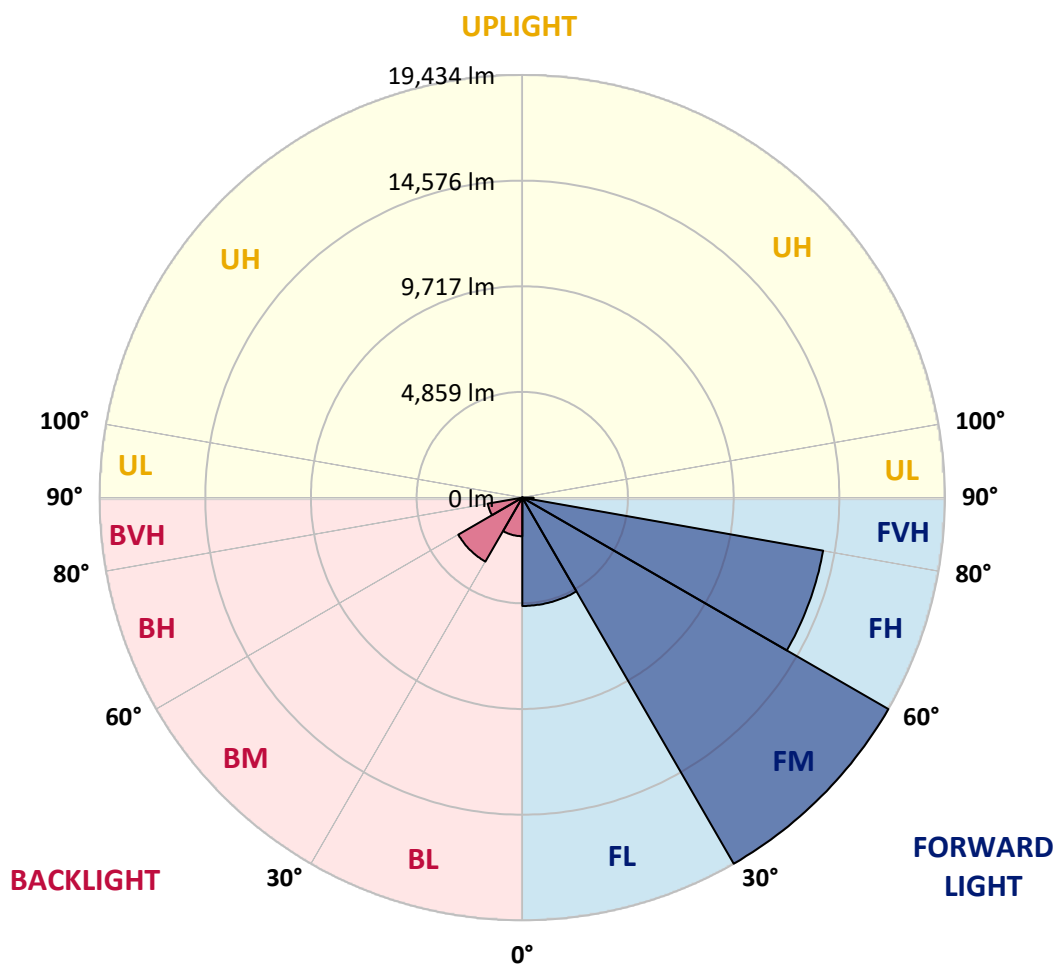
CATALOG NUMBER: GALN-SA9C-760-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4980.5	10.9			
FM	(30°-60°)	19434.4	42.5			
FH	(60°-80°)	14044.6	30.7			G5
FVH	(80°-90°)	518.6	1.1			G4/750
BL	(0°-30°)	1772.3	3.9	B3/2500		
BM	(30°-60°)	3397.0	7.4	B3/5000		
BH	(60°-80°)	1607.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	15.7	0.0			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 III Short





REPORT NUMBER: P458206

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

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9
2.5°	16931.8	16903.6	17153.8	17562.4	17974.6	18189.6	18147.3	18129.7	17787.9	17537.8	17012.8
5°	16896.6	17041.0	17488.5	18594.7	19433.2	19838.3	19958.1	19454.3	18788.5	17823.2	16632.4
7.5°	15885.5	16065.1	16794.4	18524.2	20014.5	20895.3	20863.6	20056.8	18682.8	17189.0	15490.9
10°	14631.3	14842.6	15698.7	17798.5	19732.7	20895.3	20958.7	19937.0	18228.3	16311.8	14525.6
12.5°	13747.0	13997.1	14944.8	17122.1	19006.9	20151.9	20225.9	19486.0	17886.6	15973.5	14000.6
15°	13447.5	13683.6	14645.4	16780.3	18235.4	18851.9	18834.3	18756.8	17752.7	16054.6	14028.8
17.5°	13961.9	14155.6	15240.8	16935.3	17513.1	17449.7	17541.3	17914.8	17780.9	16734.5	14916.6
20°	15290.1	15487.4	16653.5	17411.0	16960.0	16558.4	16600.7	17224.2	18041.6	18013.4	16304.7
22.5°	17118.5	17453.2	18510.1	18334.0	16886.0	16005.3	15917.2	16727.5	18485.5	19486.0	18179.0
25°	19433.2	19771.4	20595.8	19806.6	17248.9	15874.9	15793.9	16576.0	19024.5	20923.4	20289.3
27.5°	21377.9	21635.1	22456.0	21240.5	17784.4	15931.3	15797.4	16597.1	19461.4	22145.9	22068.4
30°	22935.1	23125.4	23608.0	21909.9	18245.9	16177.9	16022.9	16907.2	19655.1	22741.3	23509.4
32.5°	24189.3	24509.9	24661.4	22625.1	18908.3	16642.9	16378.7	17502.6	20127.2	23477.7	25020.8
35°	25623.2	25993.1	25799.4	23308.6	19782.0	17368.7	17044.6	18467.9	20842.4	24157.6	26775.2
37.5°	27441.1	27867.4	27109.9	24027.3	20705.0	18460.8	18309.3	19824.2	21927.5	25130.0	28656.6
40°	29322.4	29569.0	28381.8	24901.0	21839.4	20049.7	20194.2	21839.4	23347.3	26296.1	30657.7
42.5°	30791.5	31024.1	29688.8	25633.8	22998.5	21934.6	22537.0	24270.3	24975.0	27490.4	32151.4
45°	31915.4	32112.7	30594.2	26433.5	24562.8	24664.9	25802.9	26775.2	26606.1	28219.7	33303.5
47.5°	32789.1	32958.2	31291.8	27293.1	26905.6	28004.8	29745.2	30157.4	28297.2	29008.9	34346.3
50°	33148.5	33197.8	31510.2	28388.8	29565.5	32260.6	34075.0	33824.9	30234.9	29886.1	35456.1
52.5°	33617.0	33606.5	32133.8	29431.6	32066.9	36065.5	37876.4	37309.2	32426.2	31200.2	36703.2
55°	34846.6	34860.7	33469.1	30911.3	34198.3	39137.7	41075.3	40663.1	34737.4	33419.7	38158.2
57.5°	36340.3	36393.2	35368.0	32641.1	36234.7	41364.2	43464.0	43305.4	37862.3	35889.4	39532.2
59°	36534.1	36639.8	36266.4	33860.1	37443.1	42047.7	44281.3	44436.3	39535.8	37517.0	40275.6
60°	36181.8	36358.0	36527.1	34550.6	38151.2	42294.3	44330.6	44633.6	40793.5	38623.3	40613.8
62.5°	34645.8	34924.1	35773.1	36675.0	39035.5	41526.3	42755.8	43390.0	42350.7	41529.8	40645.5
65°	32634.1	32778.5	34004.6	37052.0	37319.8	37939.8	38320.3	39134.1	40479.9	42650.1	39190.5
67.5°	29336.5	29762.8	31263.6	34864.2	32257.1	31524.3	31429.2	30618.9	34113.8	39979.7	35604.0
70°	24235.1	24425.4	26275.0	28582.6	24344.3	23217.0	23667.9	23364.9	26444.1	34416.8	28656.6
72.5°	18326.9	18756.8	20564.1	22783.6	16565.4	15103.4	16347.0	16234.3	19863.0	27659.5	19686.9
75°	13038.8	13317.2	15621.2	17830.2	11601.4	9829.3	10276.8	10696.0	13866.8	21839.4	11633.1
77.5°	8959.1	9198.7	10928.5	11791.7	8462.4	8106.6	7416.0	7821.2	9086.0	12957.8	6330.9
80°	5404.4	5393.8	6531.8	6743.1	5894.1	6845.3	5742.6	6447.2	5492.4	5545.3	2452.0
82.5°	3509.0	3473.7	3995.1	4354.5	3280.0	3449.1	2314.6	3336.3	3579.4	1546.6	775.1
85°	1571.3	1638.2	1920.1	2533.1	1437.4	764.5	472.1	1025.2	1525.5	778.6	0.0
87.5°	162.1	126.8	338.2	616.5	197.3	21.1	70.5	35.2	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: P458206

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

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9
2.5°	16769.8	16565.4	15955.9	15385.2	14895.5	14296.6	13909.0	13299.5	12929.6	12816.9	12834.5
5°	16096.9	15508.5	14349.4	13422.9	12390.6	11802.2	10907.4	10047.8	9582.7	9410.1	9332.6
7.5°	14687.6	14057.0	12658.3	11203.3	10097.1	9064.8	8399.0	7641.5	7123.6	6697.3	6623.3
10°	13641.3	12813.4	11080.0	9515.8	8642.1	7867.0	7201.1	6443.7	5834.2	5348.0	5214.1
12.5°	13014.2	12087.6	10153.5	8842.9	8015.0	7218.7	6352.1	5474.8	4851.3	4326.3	4083.2
15°	12901.4	11826.9	9892.7	8360.2	7338.5	6376.7	5224.7	4277.0	3635.8	3139.0	2987.6
17.5°	13581.4	12295.5	9854.0	7856.4	6454.2	5090.8	3893.0	3107.3	2385.1	2106.8	1997.6
20°	14793.3	13123.4	9850.5	7271.6	5545.3	3921.2	2733.9	2025.8	1733.3	1599.5	1536.1
22.5°	16445.6	14250.8	10037.2	6767.8	4601.1	2892.4	1951.8	1613.6	1444.5	1335.2	1310.6
25°	18464.3	15920.7	10495.2	6426.1	3878.9	2268.8	1610.0	1381.0	1240.1	1190.8	1169.7
27.5°	20257.6	17520.2	10999.0	6073.8	3361.0	2008.1	1493.8	1264.8	1152.0	1113.3	1081.6
30°	21804.2	18971.7	11242.1	5608.7	2945.3	1839.0	1514.9	1352.9	1204.9	1088.6	1035.8
32.5°	23093.6	20085.0	11400.6	5185.9	2593.0	1504.3	1197.8	1046.3	979.4	937.1	901.9
35°	24707.2	21289.8	11305.5	4946.4	2413.3	1370.5	1092.1	901.9	789.2	704.6	669.4
37.5°	26398.3	22494.7	11139.9	4749.1	2332.3	1271.8	1039.3	856.1	732.8	644.7	598.9
40°	28149.2	23611.5	10946.1	4565.9	2258.3	1208.4	1007.6	817.3	694.0	598.9	549.6
42.5°	29752.2	24700.2	10868.6	4446.1	2138.5	1219.0	982.9	799.7	655.3	556.6	514.4
45°	31048.7	25732.4	10974.3	4382.7	2008.1	1201.4	990.0	778.6	623.6	528.5	486.2
47.5°	32433.3	27191.0	11316.1	4319.3	1881.3	1116.8	1042.8	775.1	609.5	510.8	465.0
50°	34043.3	29058.2	12098.2	4164.3	1726.3	1025.2	1109.8	771.5	591.9	489.7	443.9
52.5°	36188.9	31179.1	12905.0	3893.0	1500.8	937.1	1060.4	761.0	556.6	465.0	419.2
55°	38116.0	33412.7	13588.4	3572.4	1215.5	810.3	954.7	715.2	496.8	422.8	380.5
57.5°	38912.2	34673.9	13567.3	3128.5	972.4	711.7	785.6	655.3	433.3	373.4	338.2
59°	38619.8	34515.4	13112.8	2800.8	887.8	658.8	651.8	648.2	405.2	338.2	310.0
60°	38207.6	33937.6	12623.1	2638.8	835.0	623.6	598.9	641.2	380.5	317.1	288.9
62.5°	36629.2	31541.9	10999.0	2364.0	764.5	528.5	479.1	542.6	338.2	274.8	250.1
65°	34342.8	27860.3	9311.4	2286.5	743.4	436.9	398.1	387.5	288.9	232.5	211.4
67.5°	29882.6	23576.3	7542.9	2233.6	750.4	366.4	348.8	292.4	239.6	193.8	179.7
70°	23925.1	18383.3	6175.9	2173.7	757.5	299.5	292.4	232.5	193.8	162.1	148.0
72.5°	14536.1	10896.8	4861.8	1888.4	736.3	239.6	260.7	176.2	140.9	116.3	109.2
75°	8987.3	7458.3	3015.7	1469.1	486.2	176.2	183.2	109.2	95.1	74.0	74.0
77.5°	5207.1	4710.3	1078.1	528.5	214.9	105.7	81.0	56.4	52.8	31.7	31.7
80°	2159.6	1729.8	373.4	179.7	116.3	49.3	17.6	3.5	0.0	0.0	0.0
82.5°	630.6	560.2	102.2	81.0	35.2	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°	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9
2.5°	12535.0	12418.8	12365.9	12545.6	12380.0	12591.4	12429.4	12499.8	12707.7	12799.3	13035.3
5°	9381.9	9262.1	9205.8	9477.0	9462.9	9596.8	9582.7	9706.0	9811.7	9575.7	9818.8
7.5°	6535.3	6454.2	6588.1	6799.5	7025.0	6951.0	6951.0	6785.4	6841.8	6806.5	6796.0
10°	4971.0	4692.7	4622.3	4615.2	4699.8	4717.4	4622.3	4393.3	4477.8	4502.5	4650.4
12.5°	3910.6	3695.7	3368.0	3220.1	3181.3	3213.0	2899.5	2698.7	2793.8	2737.4	2881.9
15°	2804.4	2628.2	2434.4	2268.8	2223.0	2159.6	1817.9	1578.3	1550.1	1560.7	1585.4
17.5°	2001.1	1881.3	1881.3	1705.2	1610.0	1419.8	1247.2	1141.5	1130.9	1141.5	1159.1
20°	1476.2	1412.7	1405.7	1359.9	1254.2	1127.4	1007.6	986.5	979.4	997.0	1004.1
22.5°	1271.8	1204.9	1148.5	1145.0	1046.3	940.7	884.3	856.1	859.6	866.7	884.3
25°	1137.9	1067.5	1007.6	972.4	901.9	827.9	775.1	761.0	761.0	771.5	775.1
27.5°	1042.8	954.7	901.9	852.6	789.2	725.8	680.0	669.4	662.3	669.4	687.0
30°	975.9	887.8	820.9	746.9	697.6	637.7	598.9	584.8	581.3	584.8	598.9
32.5°	835.0	782.1	729.3	662.3	602.4	563.7	521.4	496.8	496.8	503.8	517.9
35°	630.6	602.4	598.9	581.3	532.0	489.7	440.4	415.7	415.7	429.8	436.9
37.5°	556.6	503.8	496.8	489.7	468.6	412.2	366.4	345.3	341.7	352.3	366.4
40°	507.3	447.4	415.7	408.7	412.2	348.8	299.5	278.3	278.3	281.8	295.9
42.5°	468.6	398.1	341.7	334.7	348.8	292.4	243.1	222.0	222.0	222.0	239.6
45°	436.9	355.8	288.9	253.7	274.8	239.6	197.3	176.2	169.1	176.2	183.2
47.5°	415.7	324.1	253.7	204.3	204.3	190.2	158.5	133.9	126.8	130.4	140.9
50°	398.1	295.9	214.9	165.6	148.0	151.5	119.8	102.2	95.1	95.1	105.7
52.5°	369.9	267.8	186.7	140.9	112.7	102.2	88.1	74.0	70.5	74.0	81.0
55°	334.7	243.1	162.1	116.3	88.1	70.5	63.4	52.8	49.3	52.8	63.4
57.5°	295.9	204.3	130.4	91.6	59.9	45.8	42.3	35.2	28.2	31.7	38.8
59°	271.3	183.2	112.7	74.0	45.8	31.7	31.7	24.7	17.6	21.1	31.7
60°	260.7	169.1	95.1	63.4	38.8	24.7	24.7	17.6	10.6	14.1	24.7
62.5°	222.0	140.9	74.0	38.8	17.6	3.5	10.6	3.5	0.0	3.5	10.6
65°	186.7	112.7	49.3	17.6	0.0	0.0	0.0	0.0	0.0	0.0	3.5
67.5°	155.0	84.6	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	123.3	56.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	84.6	31.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	52.8	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.1	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: P458206  
 CATALOG NUMBER: GALN-SA9C-760-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9	15497.9
2.5°	13049.4	13553.2	13863.2	14448.1	15047.0	15508.5	16086.3	16604.2	16819.1	16931.8
5°	10065.4	10766.5	11361.9	12253.2	13081.1	14088.7	15110.4	16315.3	16776.8	16896.6
7.5°	7063.7	7778.9	8402.5	9434.8	10615.0	11964.3	13493.3	15022.3	15695.2	15885.5
10°	5101.4	5865.9	6626.9	7659.1	8761.8	10223.9	11816.3	13708.2	14483.3	14631.3
12.5°	3220.1	4040.9	5277.5	6552.9	7719.0	8895.7	10562.1	12619.6	13475.7	13747.0
15°	1867.2	2480.2	3413.8	5076.7	6559.9	8117.1	9935.0	12210.9	13169.2	13447.5
17.5°	1250.7	1462.1	2103.3	3375.1	5333.9	7398.4	9776.5	12545.6	13606.1	13961.9
20°	1053.4	1148.5	1374.0	2057.5	4107.9	6757.2	9818.8	13454.6	14846.2	15290.1
22.5°	926.6	1014.6	1159.1	1479.7	2867.8	5961.0	10019.6	14754.6	16551.3	17118.5
25°	817.3	905.4	1032.3	1226.0	1927.1	5041.5	10460.0	16657.0	18809.6	19433.2
27.5°	725.8	806.8	916.0	1081.6	1483.2	4016.3	10851.0	18510.1	20870.6	21377.9
30°	641.2	708.1	813.8	940.7	1233.1	3096.8	11048.3	20130.8	22371.4	22935.1
32.5°	556.6	620.1	722.2	824.4	1014.6	2360.4	10910.9	21321.5	23830.0	24189.3
35°	475.6	542.6	627.1	722.2	877.2	1906.0	10223.9	22660.3	25341.4	25623.2
37.5°	408.7	465.0	553.1	627.1	792.7	1525.5	9392.5	23865.2	27036.0	27441.1
40°	345.3	401.6	489.7	556.6	729.3	1201.4	8642.1	25204.0	28822.1	29322.4
42.5°	281.8	348.8	426.3	535.5	627.1	916.0	7733.1	26289.1	30164.4	30791.5
45°	225.5	299.5	384.0	532.0	546.1	697.6	6855.9	27134.6	31351.7	31915.4
47.5°	179.7	253.7	369.9	496.8	447.4	553.1	6355.6	28018.9	32338.2	32789.1
50°	144.4	211.4	387.5	436.9	373.4	468.6	6341.5	29005.3	32849.0	33148.5
52.5°	116.3	172.6	327.6	334.7	317.1	412.2	6722.0	30115.1	33370.4	33617.0
55°	98.6	144.4	214.9	246.6	285.4	373.4	7007.4	31823.8	34614.0	34846.6
57.5°	77.5	123.3	165.6	197.3	253.7	341.7	7046.1	33141.4	36188.9	36340.3
59°	66.9	105.7	148.0	176.2	232.5	320.6	6887.6	33222.4	36291.0	36534.1
60°	56.4	95.1	130.4	165.6	214.9	303.0	6714.9	32634.1	35910.5	36181.8
62.5°	42.3	74.0	95.1	133.9	176.2	260.7	5897.6	30580.1	34455.5	34645.8
65°	28.2	52.8	70.5	98.6	137.4	225.5	4805.5	27916.7	32207.8	32634.1
67.5°	17.6	38.8	56.4	74.0	112.7	190.2	3424.4	23939.2	29061.7	29336.5
70°	10.6	24.7	42.3	59.9	88.1	151.5	2032.8	18922.3	24178.7	24235.1
72.5°	7.0	17.6	28.2	42.3	70.5	137.4	986.5	12334.2	17654.0	18326.9
75°	3.5	10.6	17.6	31.7	56.4	112.7	472.1	8240.4	12845.1	13038.8
77.5°	0.0	3.5	10.6	21.1	42.3	88.1	274.8	5411.4	8758.3	8959.1
80°	0.0	0.0	7.0	17.6	31.7	56.4	165.6	3191.9	5305.7	5404.4
82.5°	0.0	0.0	3.5	14.1	21.1	42.3	84.6	1402.2	3473.7	3509.0
85°	0.0	0.0	3.5	14.1	17.6	28.2	31.7	190.2	1543.1	1571.3
87.5°	0.0	0.0	3.5	17.6	17.6	17.6	17.6	10.6	130.4	162.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)