

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: P458409

Luminaire Tested: **GALN-SA9D-750-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458409  
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-SA9D-750-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 1200mA 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: 50364 lumens  
Efficiency: N/A  
Efficacy: 91.2 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

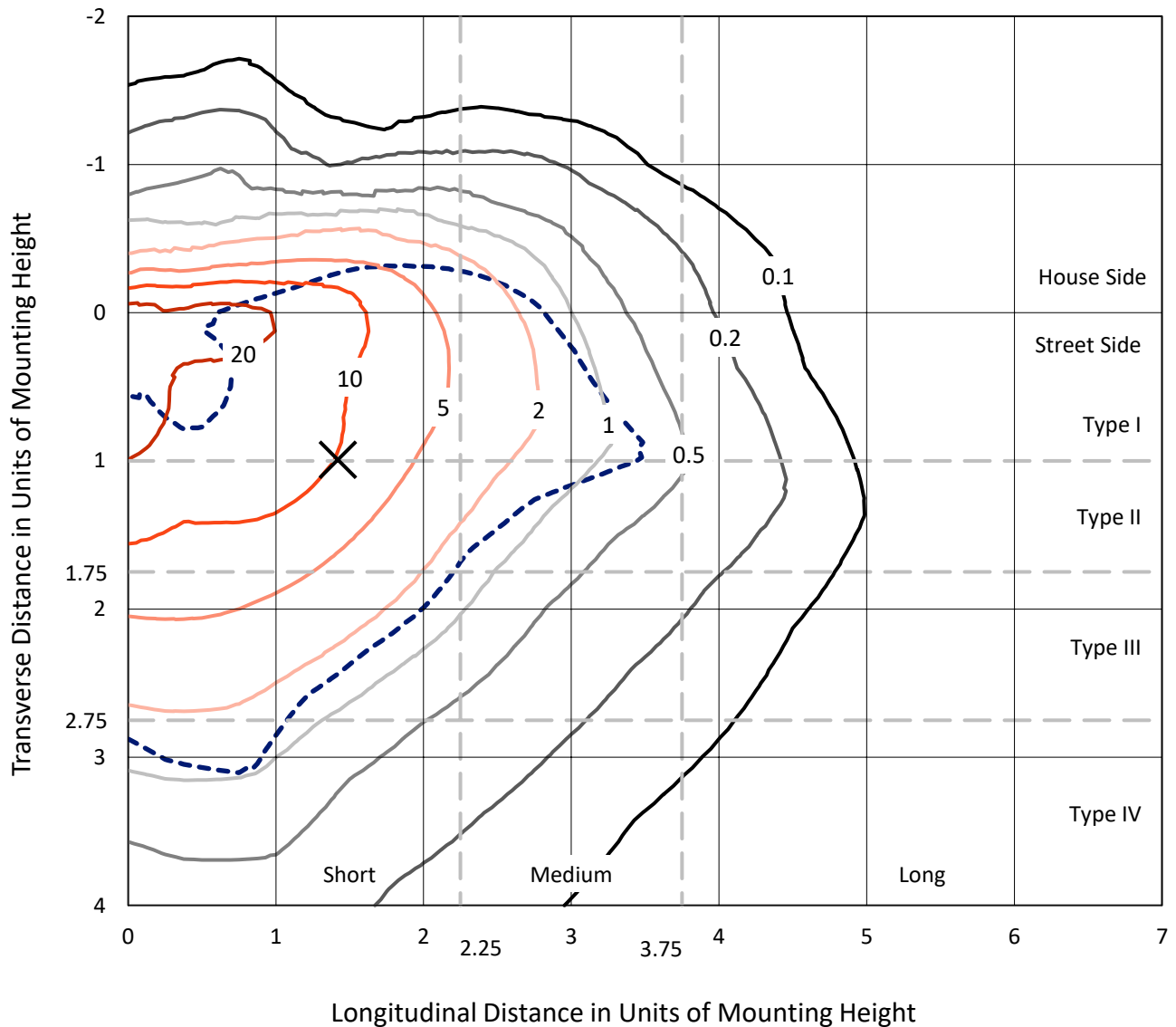
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

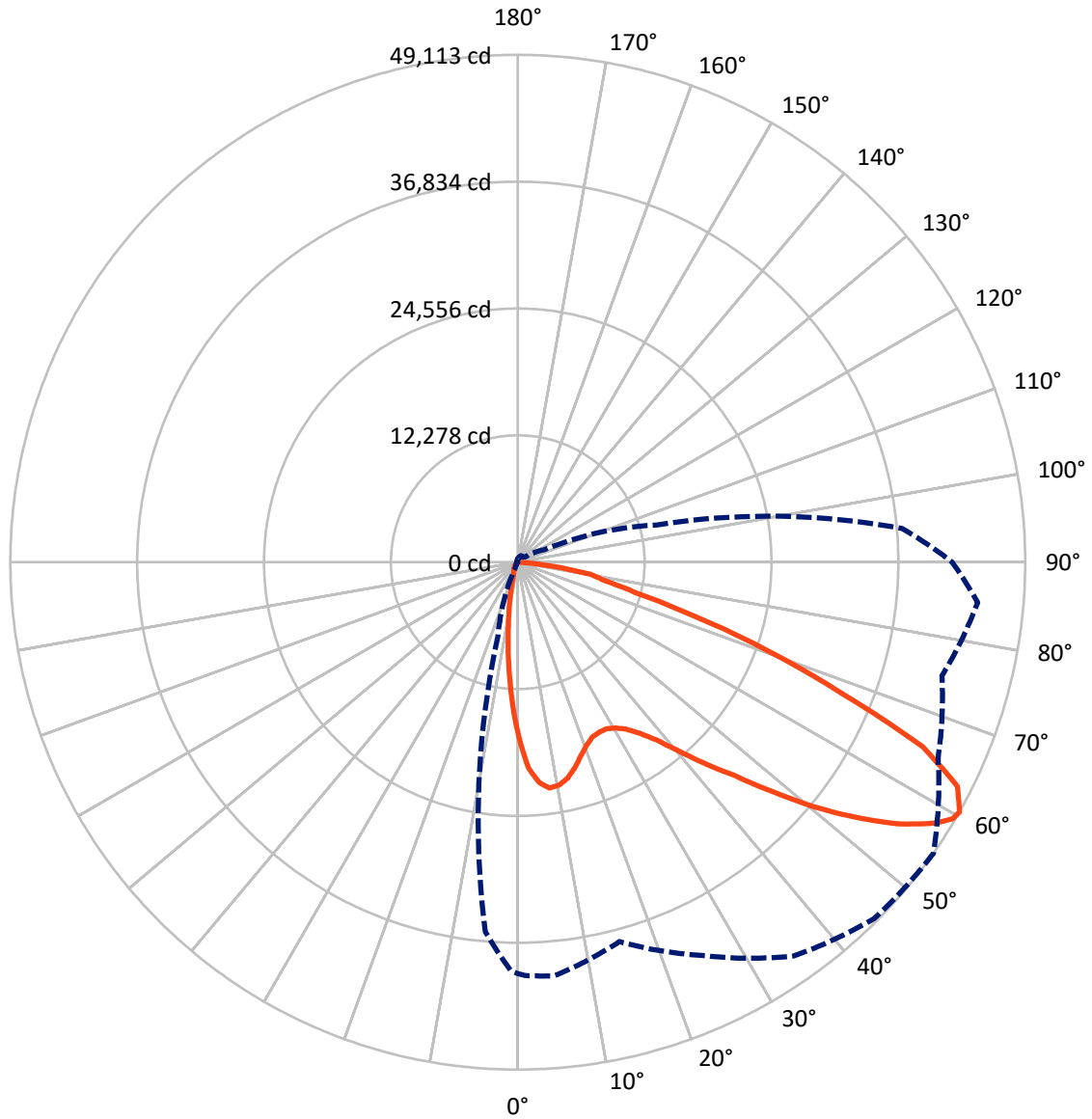
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 35.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7474.5	0.0	7474.5
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	42889.5	0.0	42889.5
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	50364.0	0.0	50364.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1262.8	2.5
10°-20°	2486.8	4.9
20°-30°	3680.9	7.3
30°-40°	5486.7	10.9
40°-50°	8035.3	16.0
50°-60°	11600.5	23.0
60°-70°	12203.2	24.2
70°-80°	5019.9	10.0
80°-90°	587.9	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°	50364.0	100.0
0°-180°	50364.0	100.0

**Coefficient of Utilization**

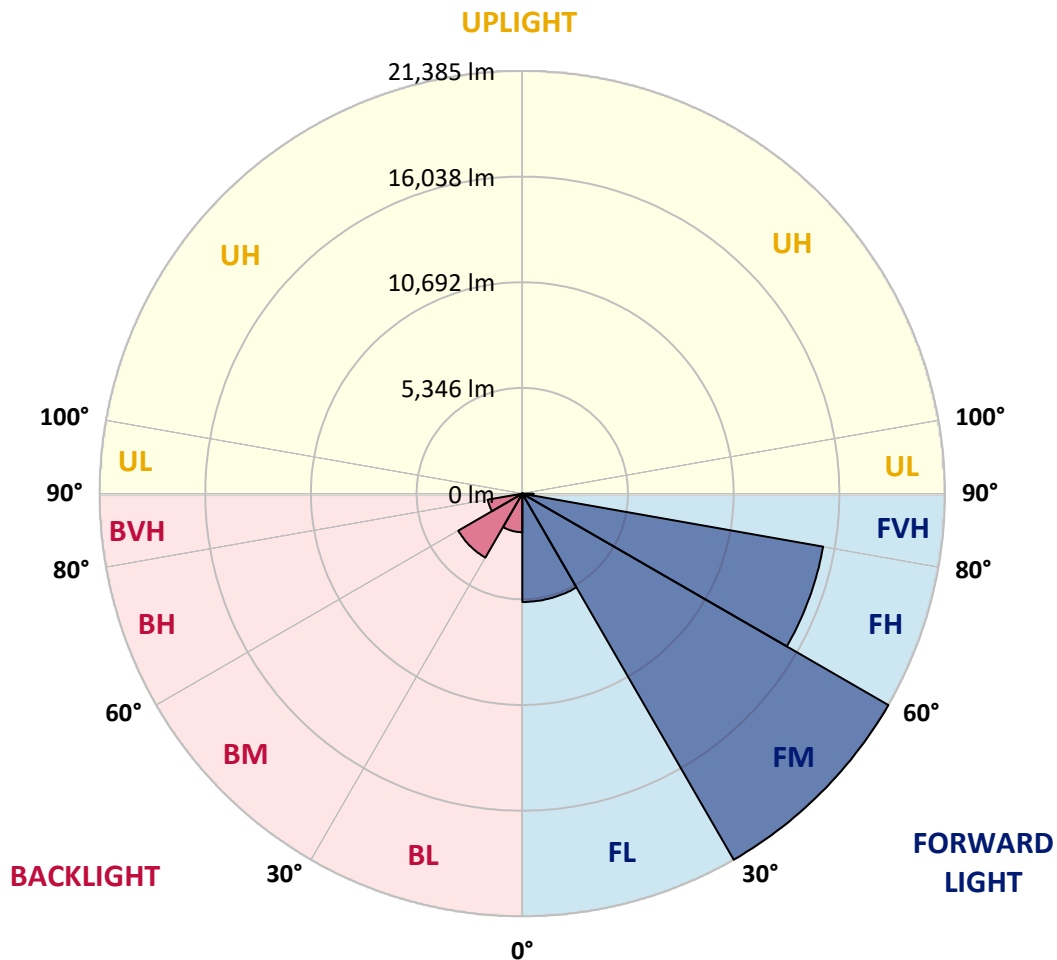


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5480.3	10.9			
FM	(30°-60°)	21384.6	42.5			
FH	(60°-80°)	15453.9	30.7			G5
FVH	(80°-90°)	570.7	1.1			G4/750
BL	(0°-30°)	1950.1	3.9	B3/2500		
BM	(30°-60°)	3737.9	7.4	B3/5000		
BH	(60°-80°)	1769.2	3.5	B3/2500		G3/2500
BVH	(80°-90°)	17.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1
2.5°	18630.9	18599.9	18875.1	19324.8	19778.4	20014.8	19968.3	19948.9	19572.9	19297.7	18720.0
5°	18592.1	18751.1	19243.4	20460.6	21383.3	21829.1	21960.9	21406.5	20673.8	19611.7	18301.4
7.5°	17479.5	17677.2	18479.7	20383.1	22022.9	22992.0	22957.2	22069.4	20557.5	18913.9	17045.4
10°	16099.5	16332.1	17274.1	19584.5	21712.8	22992.0	23061.8	21937.6	20057.5	17948.6	15983.2
12.5°	15126.4	15401.7	16444.5	18840.2	20914.2	22174.1	22255.5	21441.4	19681.4	17576.5	15405.6
15°	14796.9	15056.7	16115.0	18464.2	20065.2	20743.6	20724.2	20639.0	19534.1	17665.6	15436.6
17.5°	15362.9	15576.1	16770.1	18634.8	19270.5	19200.7	19301.5	19712.5	19565.1	18413.8	16413.5
20°	16824.4	17041.5	18324.6	19158.1	18661.9	18220.0	18266.5	18952.6	19852.0	19821.0	17940.8
22.5°	18836.3	19204.6	20367.6	20173.8	18580.5	17611.3	17514.4	18406.0	20340.5	21441.4	20003.2
25°	21383.3	21755.4	22662.5	21794.2	18979.8	17467.9	17378.7	18239.3	20933.6	23023.1	22325.3
27.5°	23523.1	23806.1	24709.4	23371.9	19569.0	17529.9	17382.6	18262.6	21414.3	24368.2	24282.9
30°	25236.6	25445.9	25977.0	24108.5	20076.8	17801.3	17630.7	18603.7	21627.5	25023.4	25868.5
32.5°	26616.7	26969.4	27136.1	24895.4	20805.6	18313.0	18022.3	19258.9	22146.9	25833.6	27531.5
35°	28194.4	28601.5	28388.3	25647.5	21767.0	19111.6	18754.9	20321.1	22933.9	26581.8	29462.1
37.5°	30194.7	30663.8	29830.3	26438.3	22782.7	20313.3	20146.6	21813.6	24127.9	27651.7	31532.2
40°	32264.8	32536.2	31229.8	27399.7	24031.0	22061.7	22220.6	24031.0	25690.1	28934.9	33734.1
42.5°	33881.4	34137.2	32668.0	28206.1	25306.4	24135.6	24798.5	26705.8	27481.1	30249.0	35377.7
45°	35118.0	35335.1	33664.3	29086.0	27027.6	27140.0	28392.1	29462.1	29276.0	31051.5	36645.4
47.5°	36079.4	36265.5	34431.9	30031.9	29605.5	30815.0	32730.0	33183.6	31136.8	31919.8	37792.9
50°	36474.8	36529.1	34672.2	31237.5	32532.3	35497.9	37494.4	37219.1	33268.9	32885.1	39014.0
52.5°	36990.4	36978.8	35358.4	32385.0	35284.7	39684.6	41677.2	41053.1	35680.1	34331.1	40386.3
55°	38343.3	38358.8	36827.6	34013.2	37630.0	43065.0	45197.1	44743.6	38223.2	36773.3	41987.3
57.5°	39987.0	40045.2	38917.1	35916.6	39870.7	45515.0	47825.5	47651.0	41661.7	39490.8	43499.2
59°	40200.2	40316.5	39905.6	37257.9	41200.4	46267.1	48724.8	48895.4	43503.1	41281.8	44317.2
60°	39812.6	40006.4	40192.5	38017.7	41979.6	46538.4	48779.1	49112.5	44887.0	42499.0	44689.3
62.5°	38122.4	38428.6	39362.9	40355.3	42952.6	45693.3	47046.3	47744.1	46600.5	45697.2	44724.2
65°	35908.8	36067.8	37416.8	40770.1	41064.7	41747.0	42165.6	43061.1	44542.0	46930.0	43123.2
67.5°	32280.3	32749.4	34400.8	38362.7	35494.0	34687.7	34583.0	33691.4	37537.0	43991.5	39176.8
70°	26667.0	26876.4	28911.6	31450.8	26787.2	25546.7	26042.9	25709.5	29097.7	37870.4	31532.2
72.5°	20166.0	20639.0	22627.6	25069.9	18227.7	16618.9	17987.4	17863.3	21856.2	30435.1	21662.4
75°	14347.3	14653.5	17188.8	19619.4	12765.6	10815.7	11308.0	11769.3	15258.3	24031.0	12800.5
77.5°	9858.2	10121.8	12025.2	12974.9	9311.6	8920.0	8160.2	8606.0	9997.7	14258.1	6966.2
80°	5946.7	5935.1	7187.2	7419.8	6485.5	7532.2	6318.8	7094.2	6043.6	6101.7	2698.1
82.5°	3861.1	3822.3	4396.1	4791.5	3609.1	3795.2	2546.9	3671.1	3938.6	1701.8	852.8
85°	1729.0	1802.6	2112.7	2787.3	1581.6	841.2	519.5	1128.1	1678.6	856.7	0.0
87.5°	178.3	139.6	372.2	678.4	217.1	23.3	77.5	38.8	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°	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1
2.5°	18452.6	18227.7	17557.1	16929.1	16390.2	15731.2	15304.8	14634.1	14227.1	14103.0	14122.4
5°	17712.1	17064.7	15789.3	14769.8	13634.0	12986.6	12001.9	11056.0	10544.3	10354.4	10269.1
7.5°	16161.5	15467.6	13928.6	12327.6	11110.3	9974.5	9241.8	8408.3	7838.5	7369.4	7288.0
10°	15010.1	14099.2	12191.9	10470.7	9509.3	8656.4	7923.7	7090.3	6419.6	5884.7	5737.4
12.5°	14320.1	13300.6	11172.3	9730.2	8819.2	7943.1	6989.5	6024.2	5338.1	4760.5	4493.0
15°	14196.1	13013.7	10885.5	9199.1	8074.9	7016.6	5749.0	4706.2	4000.6	3454.0	3287.3
17.5°	14944.2	13529.3	10842.8	8644.8	7101.9	5601.7	4283.6	3419.2	2624.5	2318.2	2198.0
20°	16277.8	14440.3	10838.9	8001.3	6101.7	4314.6	3008.2	2229.0	1907.3	1760.0	1690.2
22.5°	18095.9	15680.8	11044.4	7446.9	5062.8	3182.7	2147.6	1775.5	1589.4	1469.2	1442.1
25°	20317.2	17518.3	11548.4	7070.9	4268.1	2496.5	1771.6	1519.6	1364.6	1310.3	1287.0
27.5°	22290.4	19278.3	12102.7	6683.2	3698.3	2209.7	1643.7	1391.7	1267.6	1225.0	1190.1
30°	23992.2	20875.4	12370.2	6171.5	3240.8	2023.6	1666.9	1488.6	1325.8	1197.9	1139.7
32.5°	25411.0	22100.4	12544.6	5706.3	2853.2	1655.3	1318.0	1151.3	1077.7	1031.2	992.4
35°	27186.5	23426.2	12440.0	5442.7	2655.5	1508.0	1201.7	992.4	868.4	775.3	736.6
37.5°	29047.3	24752.0	12257.8	5225.6	2566.3	1399.4	1143.6	942.0	806.3	709.4	659.0
40°	30973.9	25980.9	12044.6	5024.1	2484.9	1329.7	1108.7	899.4	763.7	659.0	604.7
42.5°	32737.8	27178.8	11959.3	4892.3	2353.1	1341.3	1081.6	880.0	721.0	612.5	566.0
45°	34164.4	28314.6	12075.6	4822.5	2209.7	1321.9	1089.3	856.7	686.2	581.5	535.0
47.5°	35687.9	29919.5	12451.6	4752.7	2070.1	1228.9	1147.5	852.8	670.6	562.1	511.7
50°	37459.5	31974.1	13312.2	4582.1	1899.5	1128.1	1221.1	849.0	651.3	538.8	488.5
52.5°	39820.3	34307.8	14199.9	4283.6	1651.4	1031.2	1166.9	837.3	612.5	511.7	461.3
55°	41940.8	36765.6	14952.0	3930.9	1337.4	891.6	1050.6	786.9	546.6	465.2	418.7
57.5°	42816.9	38153.4	14928.7	3442.4	1069.9	783.1	864.5	721.0	476.8	410.9	372.2
59°	42495.2	37978.9	14428.7	3081.9	976.9	724.9	717.2	713.3	445.8	372.2	341.1
60°	42041.6	37343.2	13889.8	2903.6	918.8	686.2	659.0	705.5	418.7	348.9	317.9
62.5°	40304.9	34707.1	12102.7	2601.2	841.2	581.5	527.2	597.0	372.2	302.4	275.2
65°	37789.0	30656.1	10245.8	2515.9	818.0	480.7	438.1	426.4	317.9	255.9	232.6
67.5°	32881.2	25942.1	8299.8	2457.8	825.7	403.2	383.8	321.8	263.6	213.2	197.7
70°	26325.9	20228.0	6795.7	2391.9	833.5	329.5	321.8	255.9	213.2	178.3	162.8
72.5°	15994.8	11990.3	5349.7	2077.9	810.2	263.6	286.9	193.8	155.1	127.9	120.2
75°	9889.2	8206.7	3318.4	1616.5	535.0	193.8	201.6	120.2	104.7	81.4	81.4
77.5°	5729.6	5183.0	1186.2	581.5	236.5	116.3	89.2	62.0	58.1	34.9	34.9
80°	2376.3	1903.4	410.9	197.7	127.9	54.3	19.4	3.9	0.0	0.0	0.0
82.5°	693.9	616.4	112.4	89.2	38.8	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°	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1
2.5°	13792.9	13665.0	13606.8	13804.5	13622.3	13854.9	13676.6	13754.1	13982.9	14083.6	14343.4
5°	10323.4	10191.6	10129.5	10428.0	10412.5	10559.8	10544.3	10680.0	10796.3	10536.6	10804.1
7.5°	7191.1	7101.9	7249.2	7481.8	7729.9	7648.5	7648.5	7466.3	7528.3	7489.6	7477.9
10°	5469.9	5163.6	5086.1	5078.3	5171.4	5190.8	5086.1	4834.1	4927.1	4954.3	5117.1
12.5°	4303.0	4066.5	3706.0	3543.2	3500.6	3535.4	3190.4	2969.5	3074.1	3012.1	3171.0
15°	3085.8	2891.9	2678.7	2496.5	2446.1	2376.3	2000.3	1736.7	1705.7	1717.3	1744.5
17.5°	2201.9	2070.1	2070.1	1876.3	1771.6	1562.3	1372.3	1256.0	1244.4	1256.0	1275.4
20°	1624.3	1554.5	1546.8	1496.4	1380.1	1240.5	1108.7	1085.4	1077.7	1097.1	1104.8
22.5°	1399.4	1325.8	1263.8	1259.9	1151.3	1035.0	973.0	942.0	945.9	953.6	973.0
25°	1252.1	1174.6	1108.7	1069.9	992.4	911.0	852.8	837.3	837.3	849.0	852.8
27.5°	1147.5	1050.6	992.4	938.1	868.4	798.6	748.2	736.6	728.8	736.6	755.9
30°	1073.8	976.9	903.2	821.8	767.6	701.7	659.0	643.5	639.6	643.5	659.0
32.5°	918.8	860.6	802.5	728.8	662.9	620.3	573.7	546.6	546.6	554.4	569.9
35°	693.9	662.9	659.0	639.6	585.4	538.8	484.6	457.4	457.4	472.9	480.7
37.5°	612.5	554.4	546.6	538.8	515.6	453.6	403.2	379.9	376.0	387.7	403.2
40°	558.2	492.3	457.4	449.7	453.6	383.8	329.5	306.3	306.3	310.1	325.6
42.5°	515.6	438.1	376.0	368.3	383.8	321.8	267.5	244.2	244.2	244.2	263.6
45°	480.7	391.5	317.9	279.1	302.4	263.6	217.1	193.8	186.1	193.8	201.6
47.5°	457.4	356.6	279.1	224.8	224.8	209.3	174.4	147.3	139.6	143.4	155.1
50°	438.1	325.6	236.5	182.2	162.8	166.7	131.8	112.4	104.7	104.7	116.3
52.5°	407.0	294.6	205.5	155.1	124.1	112.4	96.9	81.4	77.5	81.4	89.2
55°	368.3	267.5	178.3	127.9	96.9	77.5	69.8	58.1	54.3	58.1	69.8
57.5°	325.6	224.8	143.4	100.8	65.9	50.4	46.5	38.8	31.0	34.9	42.6
59°	298.5	201.6	124.1	81.4	50.4	34.9	34.9	27.1	19.4	23.3	34.9
60°	286.9	186.1	104.7	69.8	42.6	27.1	27.1	19.4	11.6	15.5	27.1
62.5°	244.2	155.1	81.4	42.6	19.4	3.9	11.6	3.9	0.0	3.9	11.6
65°	205.5	124.1	54.3	19.4	0.0	0.0	0.0	0.0	0.0	0.0	3.9
67.5°	170.6	93.0	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	135.7	62.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	93.0	34.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	58.1	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.3	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: P458409  
 CATALOG NUMBER: GALN-SA9D-750-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1	17053.1
2.5°	14358.9	14913.2	15254.4	15897.9	16556.9	17064.7	17700.5	18270.4	18506.8	18630.9
5°	11075.4	11846.9	12502.0	13482.8	14393.8	15502.5	16626.7	17952.5	18460.3	18592.1
7.5°	7772.6	8559.5	9245.7	10381.5	11680.2	13164.9	14847.3	16529.8	17270.2	17479.5
10°	5613.3	6454.5	7291.9	8427.7	9641.1	11249.9	13002.1	15083.8	15936.7	16099.5
12.5°	3543.2	4446.4	5807.1	7210.5	8493.6	9788.4	11622.0	13885.9	14827.9	15126.4
15°	2054.6	2729.1	3756.4	5586.2	7218.2	8931.7	10932.0	13436.3	14490.7	14796.9
17.5°	1376.2	1608.8	2314.3	3713.8	5869.2	8140.8	10757.5	13804.5	14971.4	15362.9
20°	1159.1	1263.8	1511.9	2263.9	4520.1	7435.3	10804.1	14804.7	16335.9	16824.4
22.5°	1019.5	1116.5	1275.4	1628.2	3155.5	6559.2	11025.0	16235.2	18212.2	18836.3
25°	899.4	996.3	1135.8	1349.1	2120.5	5547.4	11509.6	18328.5	20697.1	21383.3
27.5°	798.6	887.7	1007.9	1190.1	1632.0	4419.3	11939.9	20367.6	22964.9	23523.1
30°	705.5	779.2	895.5	1035.0	1356.8	3407.5	12157.0	22150.8	24616.3	25236.6
32.5°	612.5	682.3	794.7	907.1	1116.5	2597.3	12005.8	23461.1	26221.2	26616.7
35°	523.3	597.0	690.0	794.7	965.3	2097.2	11249.9	24934.2	27884.3	28194.4
37.5°	449.7	511.7	608.6	690.0	872.2	1678.6	10335.0	26260.0	29748.9	30194.7
40°	379.9	441.9	538.8	612.5	802.5	1321.9	9509.3	27733.1	31714.4	32264.8
42.5°	310.1	383.8	469.1	589.2	690.0	1007.9	8509.1	28927.1	33191.3	33881.4
45°	248.1	329.5	422.5	585.4	600.9	767.6	7543.8	29857.5	34497.8	35118.0
47.5°	197.7	279.1	407.0	546.6	492.3	608.6	6993.4	30830.5	35583.2	36079.4
50°	158.9	232.6	426.4	480.7	410.9	515.6	6977.9	31915.9	36145.3	36474.8
52.5°	127.9	190.0	360.5	368.3	348.9	453.6	7396.5	33137.1	36719.0	36990.4
55°	108.5	158.9	236.5	271.4	314.0	410.9	7710.5	35017.2	38087.5	38343.3
57.5°	85.3	135.7	182.2	217.1	279.1	376.0	7753.2	36467.1	39820.3	39987.0
59°	73.7	116.3	162.8	193.8	255.9	352.8	7578.7	36556.2	39932.7	40200.2
60°	62.0	104.7	143.4	182.2	236.5	333.4	7388.8	35908.8	39514.1	39812.6
62.5°	46.5	81.4	104.7	147.3	193.8	286.9	6489.4	33648.8	37913.0	38122.4
65°	31.0	58.1	77.5	108.5	151.2	248.1	5287.7	30718.1	35439.8	35908.8
67.5°	19.4	42.6	62.0	81.4	124.1	209.3	3768.0	26341.4	31978.0	32280.3
70°	11.6	27.1	46.5	65.9	96.9	166.7	2236.8	20821.2	26605.0	26667.0
72.5°	7.8	19.4	31.0	46.5	77.5	151.2	1085.4	13571.9	19425.6	20166.0
75°	3.9	11.6	19.4	34.9	62.0	124.1	519.5	9067.3	14134.0	14347.3
77.5°	0.0	3.9	11.6	23.3	46.5	96.9	302.4	5954.4	9637.2	9858.2
80°	0.0	0.0	7.8	19.4	34.9	62.0	182.2	3512.2	5838.1	5946.7
82.5°	0.0	0.0	3.9	15.5	23.3	46.5	93.0	1542.9	3822.3	3861.1
85°	0.0	0.0	3.9	15.5	19.4	31.0	34.9	209.3	1697.9	1729.0
87.5°	0.0	0.0	3.9	19.4	19.4	19.4	19.4	11.6	143.4	178.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)