

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: P457481

Luminaire Tested: **GALN-SA8D-750-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457481  
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-SA8D-750-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 44861 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

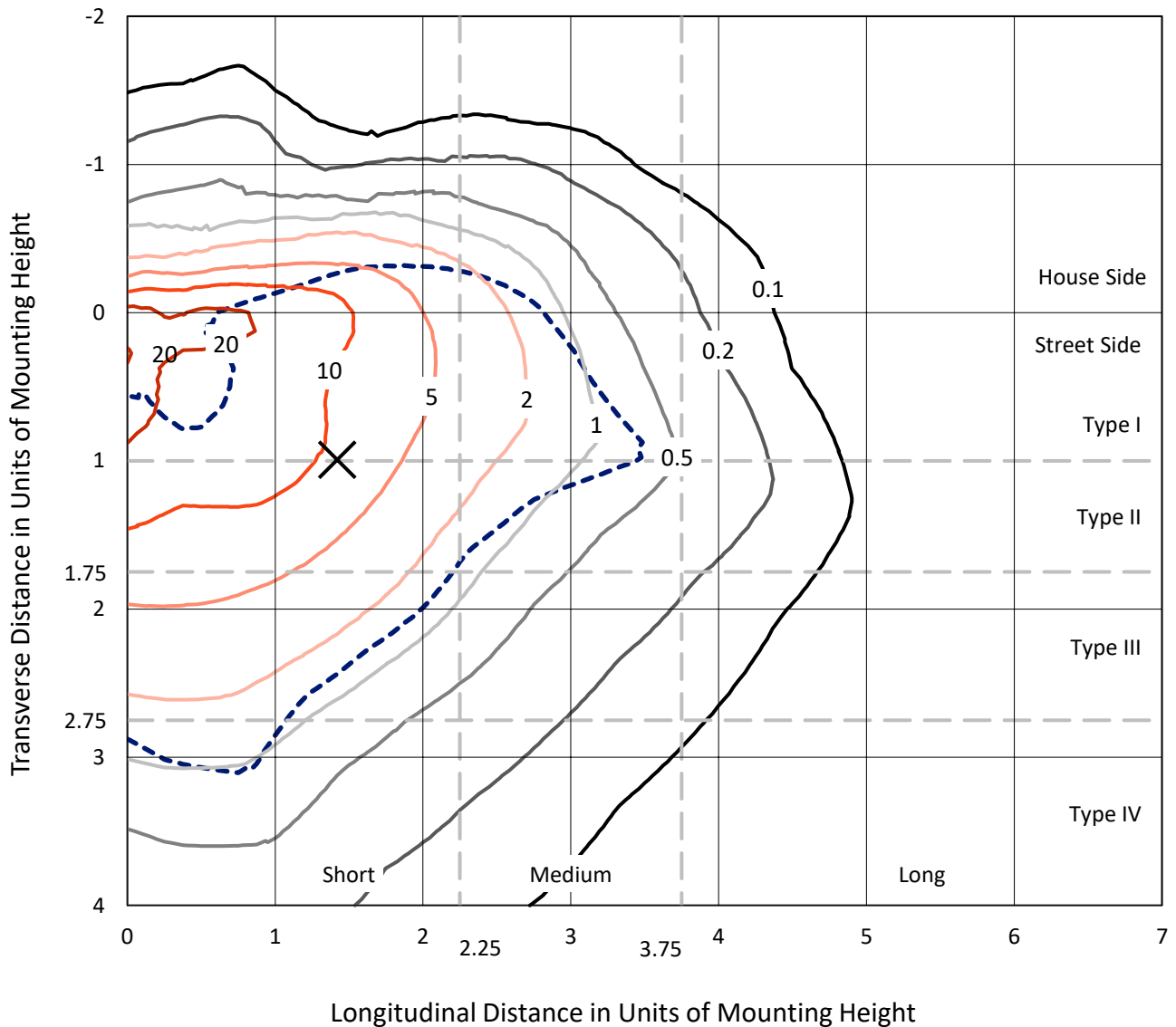
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457481  
 CATALOG NUMBER: GALN-SA8D-750-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

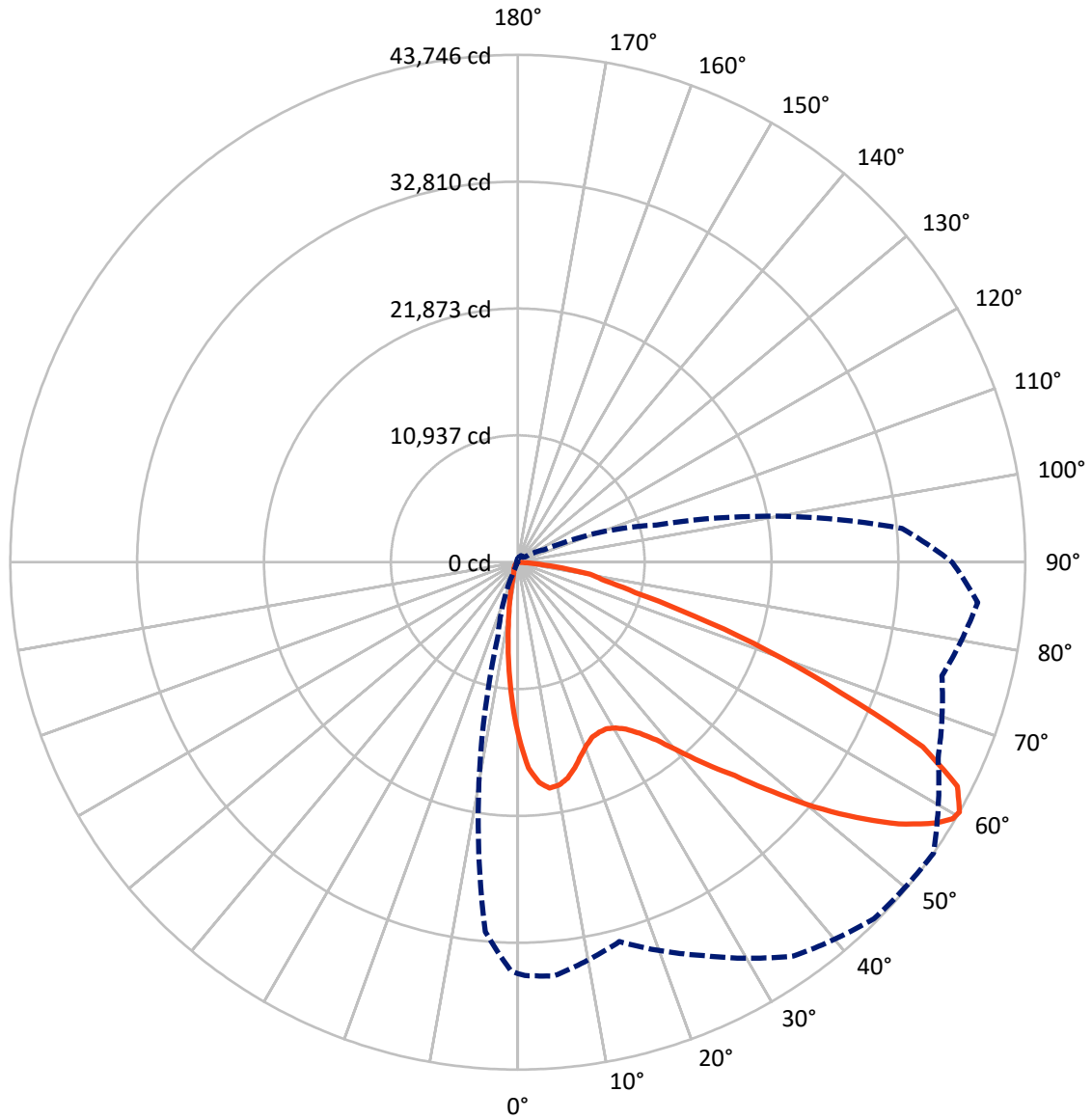
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P457481  
CATALOG NUMBER: GALN-SA8D-750-U-SLL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P457481

CATALOG NUMBER: GALN-SA8D-750-U-SLL-HSS

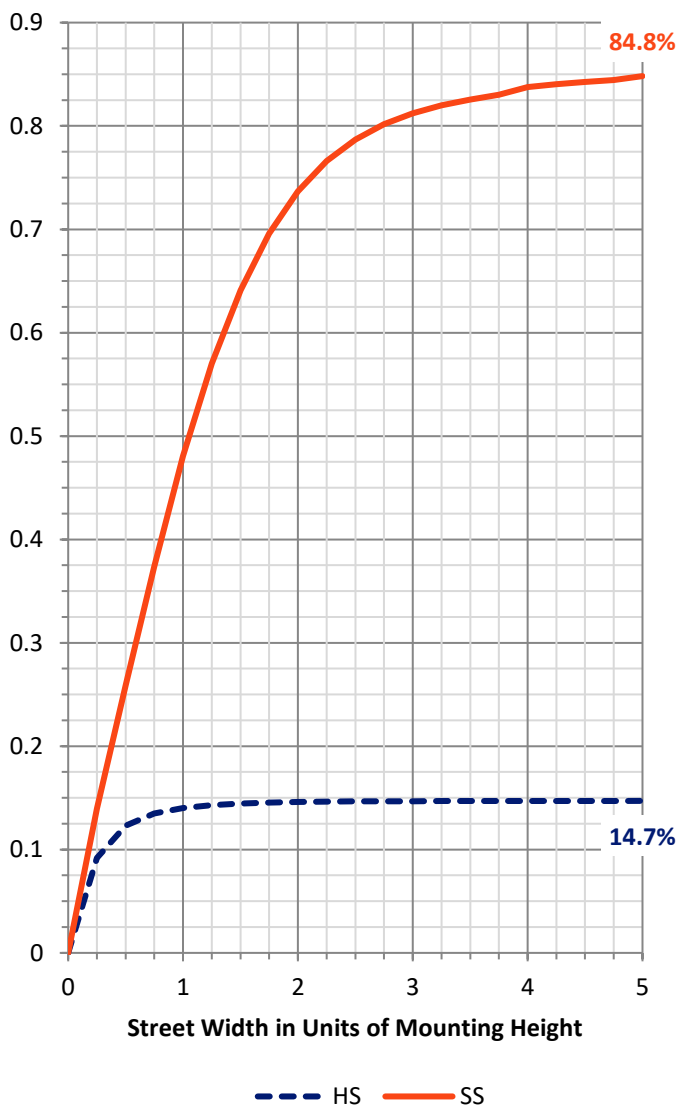
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6657.8	0.0	6657.8
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	38203.2	0.0	38203.2
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	44861.0	0.0	44861.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1124.8	2.5
10°-20°	2215.1	4.9
20°-30°	3278.7	7.3
30°-40°	4887.2	10.9
40°-50°	7157.4	16.0
50°-60°	10333.0	23.0
60°-70°	10869.8	24.2
70°-80°	4471.4	10.0
80°-90°	523.7	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°	44861.0	100.0
0°-180°	44861.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P457481

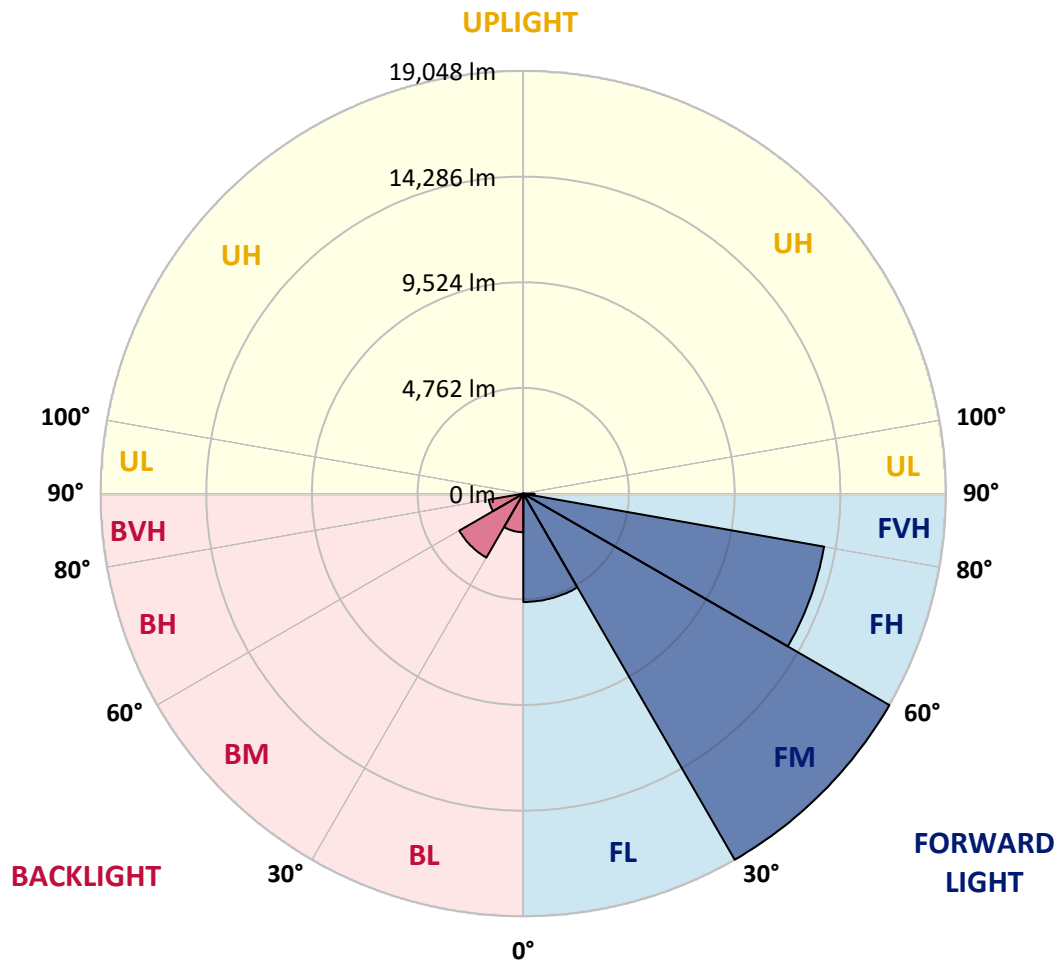
CATALOG NUMBER: GALN-SA8D-750-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4881.5	10.9			
FM	(30°-60°)	19048.0	42.5			
FH	(60°-80°)	13765.4	30.7			G5
FVH	(80°-90°)	508.3	1.1			G4/750
BL	(0°-30°)	1737.0	3.9	B3/2500		
BM	(30°-60°)	3329.5	7.4	B3/5000		
BH	(60°-80°)	1575.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	15.4	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: P457481

CATALOG NUMBER: GALN-SA8D-750-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8
2.5°	16595.2	16567.6	16812.7	17213.3	17617.3	17827.9	17786.5	17769.2	17434.3	17189.1	16674.6
5°	16560.7	16702.2	17140.8	18225.0	19046.8	19443.9	19561.3	19067.5	18414.9	17468.8	16301.7
7.5°	15569.6	15745.7	16460.5	18155.9	19616.6	20479.8	20448.8	19658.0	18311.3	16847.3	15182.9
10°	14340.4	14547.5	15386.6	17444.6	19340.3	20479.8	20542.0	19540.6	17865.9	15987.5	14236.8
12.5°	13473.7	13718.8	14647.7	16781.7	18629.0	19751.2	19823.8	19098.6	17531.0	15656.0	13722.3
15°	13180.2	13411.5	14354.2	16446.7	17872.8	18477.1	18459.8	18383.8	17399.7	15735.4	13749.9
17.5°	13684.3	13874.2	14937.7	16598.6	17164.9	17102.8	17192.6	17558.6	17427.4	16401.8	14620.1
20°	14986.1	15179.5	16322.4	17064.8	16622.8	16229.2	16270.6	16881.8	17682.9	17655.3	15980.6
22.5°	16778.2	17106.2	18142.1	17969.5	16550.3	15687.0	15600.7	16394.9	18118.0	19098.6	17817.6
25°	19046.8	19378.3	20186.3	19412.8	16906.0	15559.3	15479.9	16246.4	18646.3	20507.5	19885.9
27.5°	20952.9	21205.0	22009.5	20818.2	17430.8	15614.5	15483.3	16267.2	19074.5	21705.6	21629.7
30°	22479.1	22665.6	23138.6	21474.3	17883.2	15856.2	15704.3	16571.0	19264.4	22289.2	23042.0
32.5°	23708.4	24022.6	24171.1	22175.3	18532.3	16312.0	16053.1	17154.6	19727.1	23010.9	24523.3
35°	25113.8	25476.3	25286.4	22845.1	19388.7	17023.4	16705.7	18100.7	20428.0	23677.3	26242.9
37.5°	26895.5	27313.3	26570.9	23549.6	20293.4	18093.8	17945.3	19430.1	21491.6	24630.4	28086.8
40°	28739.4	28981.2	27817.5	24405.9	21405.2	19651.1	19792.7	21405.2	22883.1	25773.3	30048.1
42.5°	30179.3	30407.2	29098.6	25124.1	22541.3	21498.5	22088.9	23787.8	24478.4	26943.9	31512.2
45°	31280.9	31474.2	29986.0	25908.0	24074.4	24174.6	25289.9	26242.9	26077.2	27658.6	32641.3
47.5°	32137.2	32303.0	30669.7	26750.5	26370.7	27448.0	29153.8	29557.8	27734.6	28432.1	33663.4
50°	32489.4	32537.8	30883.8	27824.4	28977.7	31619.3	33397.6	33152.4	29633.8	29291.9	34751.1
52.5°	32948.7	32938.3	31494.9	28846.5	31429.3	35348.5	37123.4	36567.4	31781.5	30579.9	35973.5
55°	34153.8	34167.6	32803.6	30296.7	33518.4	38359.5	40258.7	39854.7	34046.7	32755.3	37399.6
57.5°	35617.8	35669.6	34664.8	31992.2	35514.3	40541.8	42599.8	42444.5	37109.5	35175.9	38746.3
59°	35807.8	35911.4	35545.3	33186.9	36698.6	41211.7	43400.9	43552.9	38749.7	36771.2	39474.9
60°	35462.5	35635.1	35800.9	33863.7	37392.7	41453.4	43449.3	43746.2	39982.5	37855.4	39806.4
62.5°	33956.9	34229.7	35061.9	35945.9	38259.4	40700.7	41905.8	42527.3	41508.7	40704.1	39837.4
65°	31985.3	32126.8	33328.5	36315.4	36577.8	37185.5	37558.4	38356.1	39675.1	41802.2	38411.3
67.5°	28753.3	29171.1	30642.1	34171.0	31615.8	30897.6	30804.3	30010.1	33435.5	39184.8	34896.2
70°	23753.3	23939.7	25752.6	28014.3	23860.3	22755.4	23197.4	22900.4	25918.3	33732.5	28086.8
72.5°	17962.6	18383.8	20155.2	22330.6	16236.1	14803.1	16022.0	15911.5	19468.1	27109.6	19295.4
75°	12779.6	13052.4	15310.7	17475.7	11370.8	9633.9	10072.4	10483.4	13591.1	21405.2	11401.9
77.5°	8781.0	9015.8	10711.3	11557.2	8294.1	7945.4	7268.6	7665.7	8905.3	12700.2	6205.1
80°	5296.9	5286.6	6401.9	6609.1	5776.9	6709.2	5628.4	6319.0	5383.2	5435.0	2403.3
82.5°	3439.2	3404.7	3915.7	4267.9	3214.8	3380.5	2268.6	3270.0	3508.3	1515.9	759.7
85°	1540.0	1605.7	1881.9	2482.7	1408.8	749.3	462.7	1004.8	1495.2	763.1	0.0
87.5°	158.8	124.3	331.5	604.3	193.4	20.7	69.1	34.5	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: P457481

CATALOG NUMBER: GALN-SA8D-750-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8
2.5°	16436.3	16236.1	15638.7	15079.3	14599.3	14012.3	13632.5	13035.1	12672.6	12562.1	12579.3
5°	15776.8	15200.2	14064.1	13156.0	12144.3	11567.6	10690.5	9848.0	9392.2	9223.0	9147.0
7.5°	14395.6	13777.5	12406.7	10980.6	9896.3	8884.6	8232.0	7489.6	6982.0	6564.2	6491.7
10°	13370.1	12558.6	10859.7	9326.6	8470.2	7710.6	7058.0	6315.6	5718.2	5241.7	5110.5
12.5°	12755.4	11847.3	9951.6	8667.1	7855.6	7075.2	6225.8	5366.0	4754.8	4240.3	4002.0
15°	12644.9	11591.8	9696.1	8194.0	7192.6	6250.0	5120.8	4192.0	3563.5	3076.6	2928.2
17.5°	13311.4	12051.0	9658.1	7700.2	6325.9	4989.6	3815.6	3045.6	2337.7	2064.9	1957.9
20°	14499.2	12862.5	9654.6	7127.0	5435.0	3843.2	2679.5	1985.5	1698.9	1567.7	1505.5
22.5°	16118.7	13967.4	9837.6	6633.2	4509.6	2834.9	1913.0	1581.5	1415.7	1308.7	1284.5
25°	18097.2	15604.2	10286.5	6298.3	3801.8	2223.7	1578.0	1353.6	1215.5	1167.1	1146.4
27.5°	19854.8	17171.8	10780.3	5953.0	3294.2	1968.2	1464.1	1239.6	1129.1	1091.2	1060.1
30°	21370.7	18594.5	11018.6	5497.2	2886.7	1802.5	1484.8	1326.0	1180.9	1067.0	1015.2
32.5°	22634.5	19685.6	11174.0	5082.8	2541.4	1474.4	1174.0	1025.5	959.9	918.5	884.0
35°	24216.0	20866.6	11080.7	4848.0	2365.3	1343.2	1070.4	884.0	773.5	690.6	656.1
37.5°	25873.4	22047.5	10918.4	4654.7	2285.9	1246.5	1018.6	839.1	718.2	631.9	587.0
40°	27589.6	23142.1	10728.5	4475.1	2213.4	1184.4	987.6	801.1	680.2	587.0	538.7
42.5°	29160.7	24209.1	10652.5	4357.7	2096.0	1194.7	963.4	783.8	642.3	545.6	504.1
45°	30431.4	25220.8	10756.1	4295.5	1968.2	1177.5	970.3	763.1	611.2	518.0	476.5
47.5°	31788.5	26650.4	11091.1	4233.4	1843.9	1094.6	1022.1	759.7	597.4	500.7	455.8
50°	33366.5	28480.5	11857.7	4081.5	1692.0	1004.8	1087.7	756.2	580.1	480.0	435.1
52.5°	35469.4	30559.2	12648.4	3815.6	1471.0	918.5	1039.4	745.9	545.6	455.8	410.9
55°	37358.2	32748.4	13318.3	3501.4	1191.3	794.2	935.8	701.0	486.9	414.4	372.9
57.5°	38138.5	33984.6	13297.6	3066.3	953.0	697.5	770.0	642.3	424.7	366.0	331.5
59°	37851.9	33829.2	12852.1	2745.1	870.2	645.7	638.8	635.4	397.1	331.5	303.9
60°	37447.9	33262.9	12372.2	2586.3	818.4	611.2	587.0	628.4	372.9	310.8	283.1
62.5°	35901.0	30914.8	10780.3	2317.0	749.3	518.0	469.6	531.8	331.5	269.3	245.2
65°	33660.0	27306.4	9126.3	2241.0	728.6	428.2	390.2	379.8	283.1	227.9	207.2
67.5°	29288.5	23107.6	7392.9	2189.2	735.5	359.1	341.8	286.6	234.8	189.9	176.1
70°	23449.4	18017.8	6053.1	2130.5	742.4	293.5	286.6	227.9	189.9	158.8	145.0
72.5°	14247.1	10680.2	4765.2	1850.8	721.7	234.8	255.5	172.7	138.1	113.9	107.0
75°	8808.6	7310.0	2955.8	1439.9	476.5	172.7	179.6	107.0	93.2	72.5	72.5
77.5°	5103.6	4616.7	1056.6	518.0	210.6	103.6	79.4	55.2	51.8	31.1	31.1
80°	2116.7	1695.4	366.0	176.1	113.9	48.3	17.3	3.5	0.0	0.0	0.0
82.5°	618.1	549.0	100.1	79.4	34.5	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°	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8
2.5°	12285.8	12171.9	12120.1	12296.2	12133.9	12341.1	12182.2	12251.3	12455.0	12544.8	12776.2
5°	9195.4	9078.0	9022.7	9288.6	9274.8	9406.0	9392.2	9513.1	9616.6	9385.3	9623.6
7.5°	6405.3	6325.9	6457.1	6664.3	6885.3	6812.8	6812.8	6650.5	6705.8	6671.2	6660.9
10°	4872.2	4599.4	4530.4	4523.4	4606.3	4623.6	4530.4	4305.9	4388.8	4413.0	4558.0
12.5°	3832.8	3622.2	3301.1	3156.1	3118.1	3149.1	2841.8	2645.0	2738.2	2683.0	2824.6
15°	2748.6	2575.9	2386.0	2223.7	2178.9	2116.7	1781.8	1547.0	1519.3	1529.7	1553.9
17.5°	1961.3	1843.9	1843.9	1671.3	1578.0	1391.6	1222.4	1118.8	1108.4	1118.8	1136.0
20°	1446.8	1384.7	1377.8	1332.9	1229.3	1105.0	987.6	966.8	959.9	977.2	984.1
22.5°	1246.5	1180.9	1125.7	1122.2	1025.5	922.0	866.7	839.1	842.5	849.4	866.7
25°	1115.3	1046.3	987.6	953.0	884.0	811.5	759.7	745.9	745.9	756.2	759.7
27.5°	1022.1	935.8	884.0	835.6	773.5	711.3	666.4	656.1	649.2	656.1	673.3
30°	956.5	870.2	804.6	732.0	683.7	625.0	587.0	573.2	569.7	573.2	587.0
32.5°	818.4	766.6	714.8	649.2	590.5	552.5	511.0	486.9	486.9	493.8	507.6
35°	618.1	590.5	587.0	569.7	521.4	480.0	431.6	407.5	407.5	421.3	428.2
37.5°	545.6	493.8	486.9	480.0	459.3	404.0	359.1	338.4	334.9	345.3	359.1
40°	497.2	438.5	407.5	400.5	404.0	341.8	293.5	272.8	272.8	276.2	290.1
42.5°	459.3	390.2	334.9	328.0	341.8	286.6	238.3	217.5	217.5	217.5	234.8
45°	428.2	348.8	283.1	248.6	269.3	234.8	193.4	172.7	165.7	172.7	179.6
47.5°	407.5	317.7	248.6	200.3	200.3	186.5	155.4	131.2	124.3	127.8	138.1
50°	390.2	290.1	210.6	162.3	145.0	148.5	117.4	100.1	93.2	93.2	103.6
52.5°	362.6	262.4	183.0	138.1	110.5	100.1	86.3	72.5	69.1	72.5	79.4
55°	328.0	238.3	158.8	113.9	86.3	69.1	62.2	51.8	48.3	51.8	62.2
57.5°	290.1	200.3	127.8	89.8	58.7	44.9	41.4	34.5	27.6	31.1	38.0
59°	265.9	179.6	110.5	72.5	44.9	31.1	31.1	24.2	17.3	20.7	31.1
60°	255.5	165.7	93.2	62.2	38.0	24.2	24.2	17.3	10.4	13.8	24.2
62.5°	217.5	138.1	72.5	38.0	17.3	3.5	10.4	3.5	0.0	3.5	10.4
65°	183.0	110.5	48.3	17.3	0.0	0.0	0.0	0.0	0.0	0.0	3.5
67.5°	151.9	82.9	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	120.9	55.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	82.9	31.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	51.8	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	20.7	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: P457481  
 CATALOG NUMBER: GALN-SA8D-750-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8	15189.8
2.5°	12790.0	13283.7	13587.6	14160.8	14747.8	15200.2	15766.5	16274.1	16484.7	16595.2
5°	9865.3	10552.4	11136.0	12009.6	12821.0	13808.6	14810.0	15990.9	16443.3	16560.7
7.5°	6923.3	7624.3	8235.4	9247.2	10403.9	11726.4	13225.0	14723.7	15383.2	15569.6
10°	5000.0	5749.3	6495.1	7506.9	8587.6	10020.6	11581.4	13435.7	14195.3	14340.4
12.5°	3156.1	3960.6	5172.6	6422.6	7565.6	8718.9	10352.1	12368.7	13207.8	13473.7
15°	1830.1	2430.9	3346.0	4975.8	6429.5	7955.7	9737.5	11968.1	12907.4	13180.2
17.5°	1225.8	1433.0	2061.4	3308.0	5227.9	7251.3	9582.1	12296.2	13335.5	13684.3
20°	1032.5	1125.7	1346.7	2016.6	4026.2	6622.9	9623.6	13187.1	14551.0	14986.1
22.5°	908.1	994.5	1136.0	1450.3	2810.8	5842.5	9820.4	14461.2	16222.3	16778.2
25°	801.1	887.4	1011.7	1201.6	1888.8	4941.3	10252.0	16325.9	18435.6	19046.8
27.5°	711.3	790.7	897.8	1060.1	1453.7	3936.4	10635.3	18142.1	20455.7	20952.9
30°	628.4	694.1	797.6	922.0	1208.6	3035.2	10828.7	19730.5	21926.6	22479.1
32.5°	545.6	607.7	707.9	808.0	994.5	2313.5	10694.0	20897.6	23356.2	23708.4
35°	466.2	531.8	614.6	707.9	859.8	1868.1	10020.6	22209.8	24837.5	25113.8
37.5°	400.5	455.8	542.1	614.6	776.9	1495.2	9205.7	23390.7	26498.4	26895.5
40°	338.4	393.6	480.0	545.6	714.8	1177.5	8470.2	24702.9	28249.1	28739.4
42.5°	276.2	341.8	417.8	524.9	614.6	897.8	7579.4	25766.4	29564.7	30179.3
45°	221.0	293.5	376.4	521.4	535.2	683.7	6719.6	26595.1	30728.4	31280.9
47.5°	176.1	248.6	362.6	486.9	438.5	542.1	6229.2	27461.8	31695.2	32137.2
50°	141.6	207.2	379.8	428.2	366.0	459.3	6215.4	28428.7	32195.9	32489.4
52.5°	113.9	169.2	321.1	328.0	310.8	404.0	6588.4	29516.4	32707.0	32948.7
55°	96.7	141.6	210.6	241.7	279.7	366.0	6868.0	31191.1	33925.9	34153.8
57.5°	76.0	120.9	162.3	193.4	248.6	334.9	6906.0	32482.5	35469.4	35617.8
59°	65.6	103.6	145.0	172.7	227.9	314.2	6750.6	32561.9	35569.5	35807.8
60°	55.2	93.2	127.8	162.3	210.6	297.0	6581.4	31985.3	35196.6	35462.5
62.5°	41.4	72.5	93.2	131.2	172.7	255.5	5780.3	29972.2	33770.5	33956.9
65°	27.6	51.8	69.1	96.7	134.7	221.0	4709.9	27361.7	31567.5	31985.3
67.5°	17.3	38.0	55.2	72.5	110.5	186.5	3356.3	23463.2	28483.9	28753.3
70°	10.4	24.2	41.4	58.7	86.3	148.5	1992.4	18546.1	23698.0	23753.3
72.5°	6.9	17.3	27.6	41.4	69.1	134.7	966.8	12089.0	17303.1	17962.6
75°	3.5	10.4	17.3	31.1	55.2	110.5	462.7	8076.6	12589.7	12779.6
77.5°	0.0	3.5	10.4	20.7	41.4	86.3	269.3	5303.8	8584.2	8781.0
80°	0.0	0.0	6.9	17.3	31.1	55.2	162.3	3128.4	5200.2	5296.9
82.5°	0.0	0.0	3.5	13.8	20.7	41.4	82.9	1374.3	3404.7	3439.2
85°	0.0	0.0	3.5	13.8	17.3	27.6	31.1	186.5	1512.4	1540.0
87.5°	0.0	0.0	3.5	17.3	17.3	17.3	17.3	10.4	127.8	158.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)