

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: P456089

Luminaire Tested: **GALN-SA7B-750-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456089  
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-SA7B-750-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA 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: 28463 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

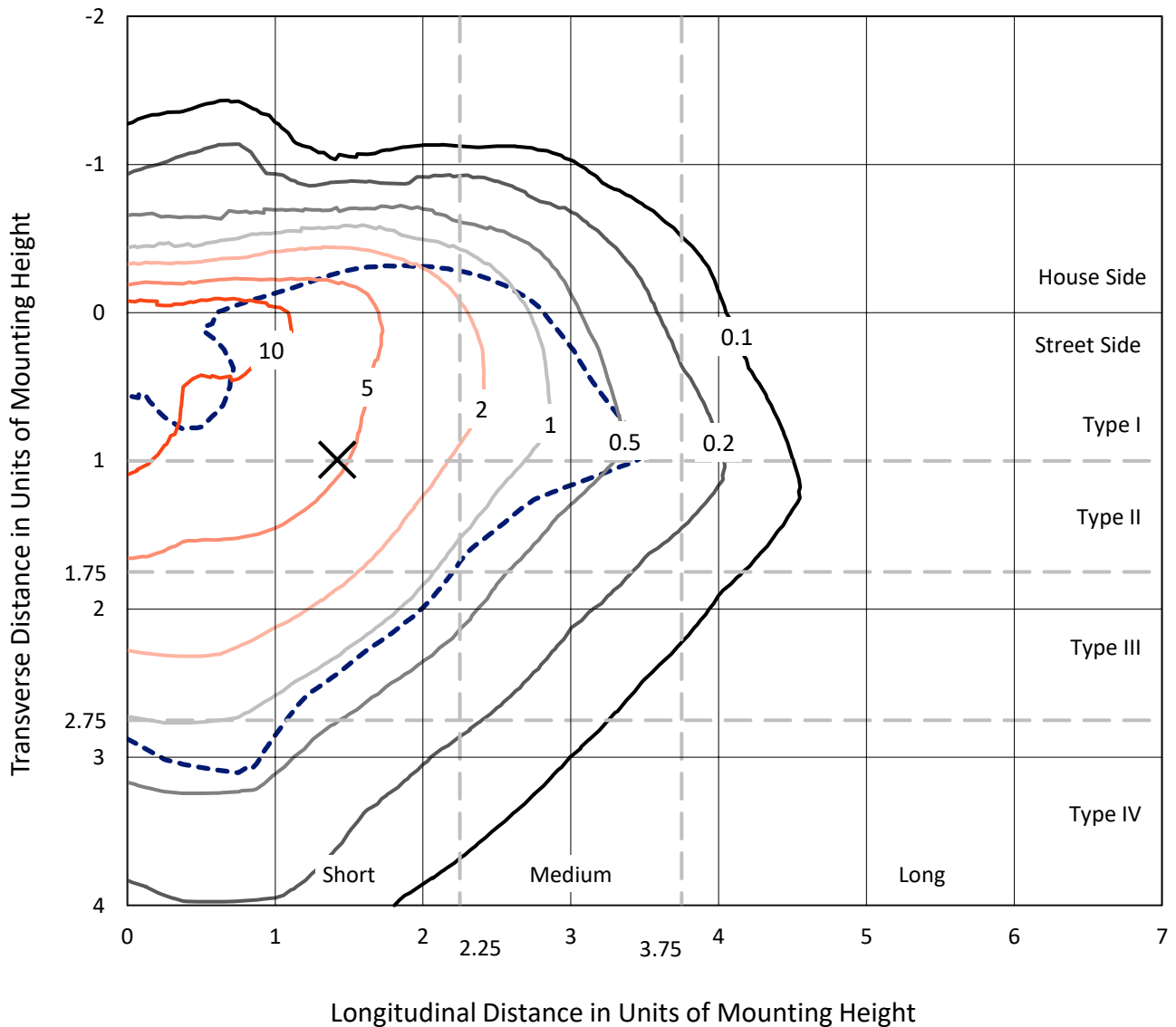
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

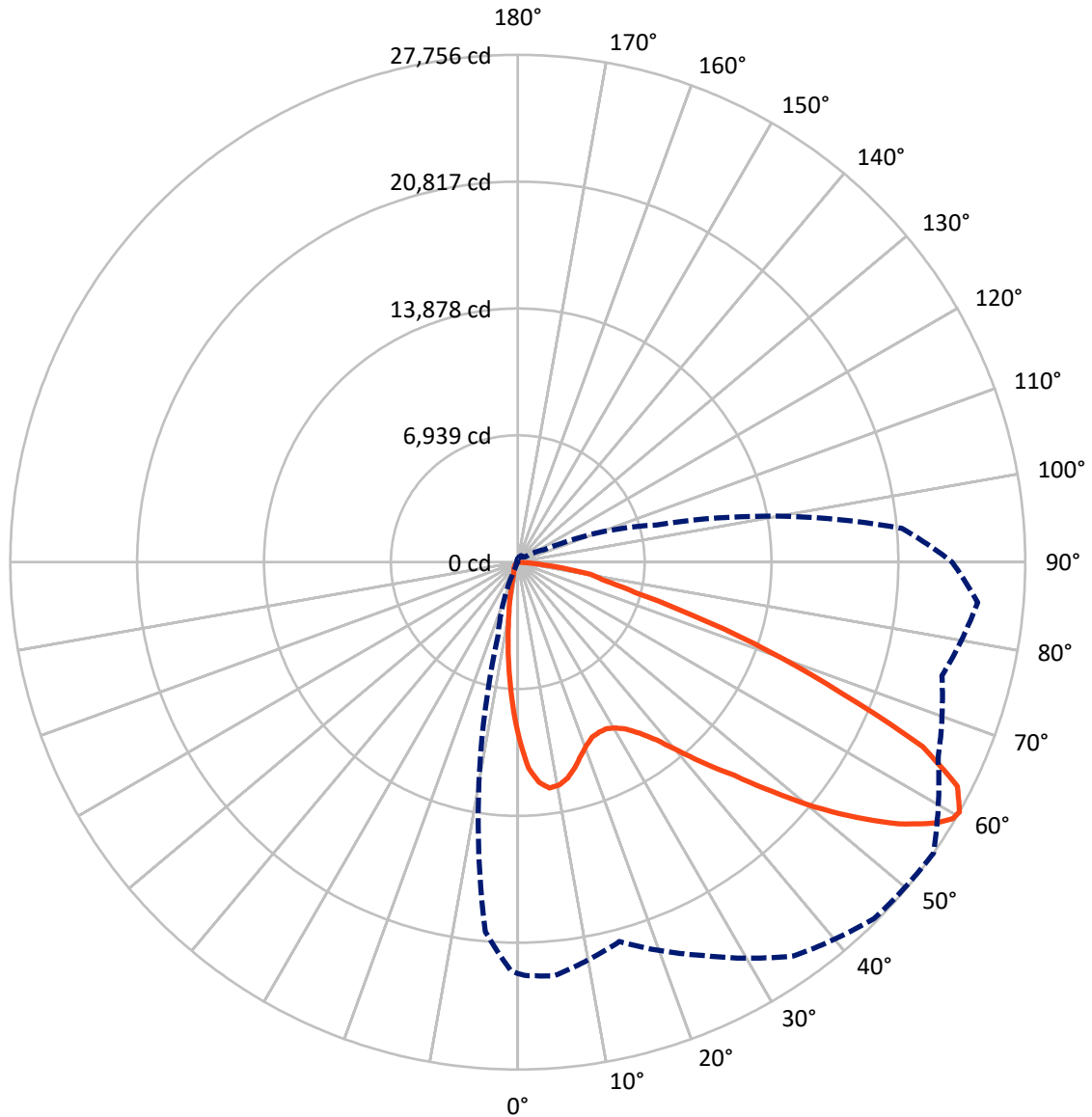
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 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	4224.2	0.0	4224.2
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	24238.9	0.0	24238.9
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	28463.0	0.0	28463.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	713.7	2.5
10°-20°	1405.4	4.9
20°-30°	2080.2	7.3
30°-40°	3100.8	10.9
40°-50°	4541.1	16.0
50°-60°	6556.0	23.0
60°-70°	6896.6	24.2
70°-80°	2837.0	10.0
80°-90°	332.3	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°	28463.0	100.0
0°-180°	28463.0	100.0

**Coefficient of Utilization**



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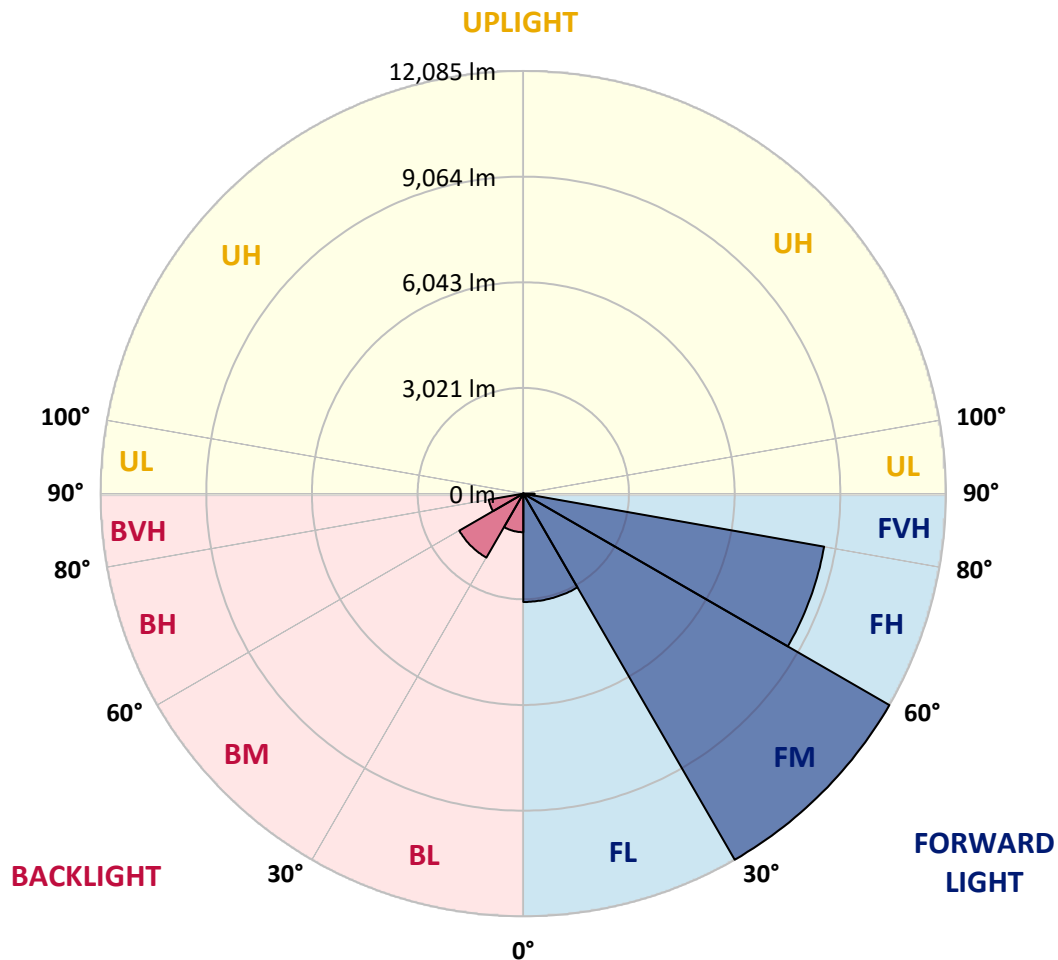
CATALOG NUMBER: GALN-SA7B-750-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3097.2	10.9			
FM	(30°-60°)	12085.4	42.5			
FH	(60°-80°)	8733.7	30.7			G4/12000
FVH	(80°-90°)	322.5	1.1			G3/500
BL	(0°-30°)	1102.1	3.9	B3/2500		
BM	(30°-60°)	2112.5	7.4	B2/2500		
BH	(60°-80°)	999.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5
2.5°	10529.2	10511.6	10667.2	10921.3	11177.7	11311.3	11285.0	11274.0	11061.5	10906.0	10579.6
5°	10507.3	10597.1	10875.3	11563.2	12084.7	12336.6	12411.1	12097.8	11683.7	11083.4	10342.9
7.5°	9878.5	9990.2	10443.7	11519.4	12446.1	12993.9	12974.1	12472.4	11618.0	10689.1	9633.1
10°	9098.5	9230.0	9762.4	11068.1	12270.9	12993.9	13033.3	12397.9	11335.4	10143.6	9032.8
12.5°	8548.6	8704.2	9293.5	10647.5	11819.6	12531.6	12577.6	12117.5	11122.9	9933.3	8706.4
15°	8362.4	8509.2	9107.3	10435.0	11339.8	11723.2	11712.2	11664.0	11039.6	9983.6	8723.9
17.5°	8682.3	8802.8	9477.6	10531.4	10890.7	10851.2	10908.2	11140.4	11057.2	10406.5	9276.0
20°	9508.2	9630.9	10356.1	10827.1	10546.7	10296.9	10323.2	10711.0	11219.3	11201.8	10139.2
22.5°	10645.3	10853.4	11510.7	11401.1	10500.7	9953.0	9898.2	10402.1	11495.3	12117.5	11304.7
25°	12084.7	12295.0	12807.6	12316.9	10726.3	9871.9	9821.5	10307.9	11830.5	13011.4	12617.0
27.5°	13294.0	13453.9	13964.4	13208.6	11059.3	9907.0	9823.7	10321.0	12102.2	13771.6	13723.4
30°	14262.4	14380.7	14680.8	13624.8	11346.3	10060.3	9963.9	10513.8	12222.7	14141.9	14619.5
32.5°	15042.3	15241.7	15335.9	14069.6	11758.2	10349.5	10185.2	10884.1	12516.3	14599.7	15559.3
35°	15934.0	16164.0	16043.5	14494.6	12301.6	10800.8	10599.3	11484.4	12961.0	15022.6	16650.4
37.5°	17064.4	17329.5	16858.5	14941.5	12875.6	11480.0	11385.8	12327.8	13635.8	15627.2	17820.3
40°	18234.3	18387.7	17649.4	15484.8	13581.0	12468.1	12557.9	13581.0	14518.7	16352.4	19064.7
42.5°	19147.9	19292.5	18462.2	15940.5	14301.8	13640.2	14014.8	15092.7	15530.8	17095.1	19993.6
45°	19846.8	19969.5	19025.2	16437.9	15274.5	15338.1	16045.7	16650.4	16545.2	17548.6	20710.0
47.5°	20390.1	20495.3	19459.0	16972.4	16731.4	17415.0	18497.2	18753.6	17596.8	18039.4	21358.5
50°	20613.6	20644.3	19594.8	17653.8	18385.5	20061.5	21189.8	21034.2	18801.8	18584.9	22048.6
52.5°	20905.0	20898.4	19982.6	18302.3	19941.0	22427.6	23553.7	23201.0	20164.5	19402.1	22824.1
55°	21669.6	21678.3	20813.0	19222.4	21266.5	24338.0	25543.0	25286.6	21601.7	20782.3	23729.0
57.5°	22598.5	22631.3	21993.8	20298.1	22532.8	25722.6	27028.4	26929.8	23544.9	22318.1	24583.4
59°	22719.0	22784.7	22552.5	21056.1	23284.2	26147.6	27536.6	27633.0	24585.6	23330.2	25045.7
60°	22499.9	22609.4	22714.6	21485.5	23724.6	26301.0	27567.3	27755.7	25367.7	24018.1	25256.0
62.5°	21544.7	21717.8	22245.8	22806.6	24274.5	25823.4	26588.0	26982.4	26336.1	25825.6	25275.7
65°	20293.7	20383.5	21146.0	23041.0	23207.5	23593.1	23829.7	24335.8	25172.7	26522.3	24370.9
67.5°	18243.1	18508.2	19441.5	21680.5	20059.3	19603.6	19544.5	19040.6	21213.9	24861.6	22140.6
70°	15070.8	15189.1	16339.3	17774.3	15138.7	14437.6	14718.0	14529.6	16444.4	21402.3	17820.3
72.5°	11396.7	11664.0	12787.9	14168.1	10301.3	9392.1	10165.5	10095.4	12351.9	17200.3	12242.4
75°	8108.3	8281.4	9714.2	11087.8	7214.4	6112.4	6390.7	6651.4	8623.1	13581.0	7234.1
77.5°	5571.3	5720.3	6796.0	7332.7	5262.4	5041.1	4611.7	4863.7	5650.2	8057.9	3936.9
80°	3360.7	3354.2	4061.8	4193.3	3665.3	4256.8	3571.1	4009.2	3415.5	3448.4	1524.8
82.5°	2182.1	2160.2	2484.4	2707.9	2039.7	2144.8	1439.4	2074.7	2225.9	961.8	482.0
85°	977.1	1018.7	1194.0	1575.2	893.9	475.4	293.6	637.5	948.6	484.2	0.0
87.5°	100.8	78.9	210.3	383.4	122.7	13.1	43.8	21.9	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°	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5
2.5°	10428.4	10301.3	9922.3	9567.4	9262.9	8890.4	8649.4	8270.4	8040.4	7970.3	7981.2
5°	10009.9	9644.1	8923.3	8347.1	7705.2	7339.3	6782.8	6248.3	5959.1	5851.7	5803.5
7.5°	9133.6	8741.4	7871.7	6966.9	6278.9	5637.0	5223.0	4751.9	4429.9	4164.8	4118.8
10°	8482.9	7968.1	6890.2	5917.5	5374.1	4892.1	4478.1	4007.0	3628.0	3325.7	3242.4
12.5°	8093.0	7516.8	6314.0	5499.0	4984.2	4489.0	3950.1	3404.6	3016.8	2690.3	2539.2
15°	8022.8	7354.6	6151.9	5198.9	4563.5	3965.4	3249.0	2659.7	2260.9	1952.0	1857.8
17.5°	8445.7	7646.0	6127.8	4885.6	4013.6	3165.8	2420.9	1932.3	1483.2	1310.1	1242.2
20°	9199.3	8160.9	6125.6	4521.9	3448.4	2438.4	1700.1	1259.7	1077.9	994.6	955.2
22.5°	10226.8	8861.9	6241.7	4208.6	2861.2	1798.7	1213.7	1003.4	898.2	830.3	815.0
25°	11482.2	9900.4	6526.5	3996.1	2412.1	1410.9	1001.2	858.8	771.2	740.5	727.4
27.5°	12597.3	10895.0	6839.8	3777.0	2090.1	1248.8	928.9	786.5	716.4	692.3	672.6
30°	13559.1	11797.7	6991.0	3487.8	1831.5	1143.6	942.1	841.3	749.3	677.0	644.1
32.5°	14360.9	12490.0	7089.5	3224.9	1612.5	935.5	744.9	650.7	609.1	582.8	560.9
35°	15364.3	13239.2	7030.4	3075.9	1500.7	852.2	679.2	560.9	490.7	438.2	416.3
37.5°	16415.9	13988.5	6927.4	2953.2	1450.3	790.9	646.3	532.4	455.7	400.9	372.4
40°	17504.8	14683.0	6806.9	2839.3	1404.3	751.5	626.6	508.3	431.6	372.4	341.8
42.5°	18501.6	15360.0	6758.7	2764.8	1329.8	758.0	611.2	497.3	407.5	346.2	319.9
45°	19307.8	16001.9	6824.5	2725.4	1248.8	747.1	615.6	484.2	387.8	328.6	302.3
47.5°	20168.8	16908.9	7037.0	2686.0	1169.9	694.5	648.5	482.0	379.0	317.7	289.2
50°	21170.1	18070.0	7523.3	2589.6	1073.5	637.5	690.1	479.8	368.1	304.5	276.0
52.5°	22504.3	19388.9	8025.0	2420.9	933.3	582.8	659.4	473.2	346.2	289.2	260.7
55°	23702.7	20777.9	8450.1	2221.5	755.8	503.9	593.7	444.7	308.9	262.9	236.6
57.5°	24197.8	21562.2	8436.9	1945.5	604.7	442.5	488.6	407.5	269.5	232.2	210.3
59°	24016.0	21463.6	8154.3	1741.7	552.1	409.7	405.3	403.1	251.9	210.3	192.8
60°	23759.6	21104.3	7849.8	1640.9	519.2	387.8	372.4	398.7	236.6	197.2	179.6
62.5°	22778.1	19614.6	6839.8	1470.1	475.4	328.6	298.0	337.4	210.3	170.9	155.5
65°	21356.3	17325.1	5790.4	1421.9	462.3	271.7	247.6	241.0	179.6	144.6	131.5
67.5°	18582.7	14661.1	4690.6	1389.0	466.6	227.8	216.9	181.8	149.0	120.5	111.7
70°	14878.0	11431.8	3840.5	1351.7	471.0	186.2	181.8	144.6	120.5	100.8	92.0
72.5°	9039.4	6776.3	3023.4	1174.3	457.9	149.0	162.1	109.5	87.6	72.3	67.9
75°	5588.8	4638.0	1875.4	913.6	302.3	109.5	113.9	67.9	59.2	46.0	46.0
77.5°	3238.1	2929.1	670.4	328.6	133.6	65.7	50.4	35.1	32.9	19.7	19.7
80°	1343.0	1075.7	232.2	111.7	72.3	30.7	11.0	2.2	0.0	0.0	0.0
82.5°	392.2	348.3	63.5	50.4	21.9	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°	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5
2.5°	7795.0	7722.7	7689.8	7801.6	7698.6	7830.1	7729.3	7773.1	7902.3	7959.3	8106.1
5°	5834.2	5759.7	5724.7	5893.4	5884.6	5967.8	5959.1	6035.8	6101.5	5954.7	6105.9
7.5°	4064.0	4013.6	4096.9	4228.3	4368.5	4322.5	4322.5	4219.6	4254.6	4232.7	4226.1
10°	3091.3	2918.2	2874.4	2870.0	2922.6	2933.5	2874.4	2732.0	2784.6	2799.9	2891.9
12.5°	2431.8	2298.2	2094.4	2002.4	1978.3	1998.0	1803.1	1678.2	1737.3	1702.3	1792.1
15°	1743.9	1634.4	1513.9	1410.9	1382.4	1343.0	1130.5	981.5	964.0	970.5	985.9
17.5°	1244.4	1169.9	1169.9	1060.4	1001.2	882.9	775.6	709.8	703.3	709.8	720.8
20°	918.0	878.5	874.1	845.7	779.9	701.1	626.6	613.4	609.1	620.0	624.4
22.5°	790.9	749.3	714.2	712.0	650.7	585.0	549.9	532.4	534.6	538.9	549.9
25°	707.6	663.8	626.6	604.7	560.9	514.8	482.0	473.2	473.2	479.8	482.0
27.5°	648.5	593.7	560.9	530.2	490.7	451.3	422.8	416.3	411.9	416.3	427.2
30°	606.9	552.1	510.5	464.5	433.8	396.5	372.4	363.7	361.5	363.7	372.4
32.5°	519.2	486.4	453.5	411.9	374.6	350.5	324.2	308.9	308.9	313.3	322.1
35°	392.2	374.6	372.4	361.5	330.8	304.5	273.9	258.5	258.5	267.3	271.7
37.5°	346.2	313.3	308.9	304.5	291.4	256.3	227.8	214.7	212.5	219.1	227.8
40°	315.5	278.2	258.5	254.1	256.3	216.9	186.2	173.1	173.1	175.3	184.0
42.5°	291.4	247.6	212.5	208.1	216.9	181.8	151.2	138.0	138.0	138.0	149.0
45°	271.7	221.3	179.6	157.7	170.9	149.0	122.7	109.5	105.2	109.5	113.9
47.5°	258.5	201.6	157.7	127.1	127.1	118.3	98.6	83.3	78.9	81.1	87.6
50°	247.6	184.0	133.6	103.0	92.0	94.2	74.5	63.5	59.2	59.2	65.7
52.5°	230.0	166.5	116.1	87.6	70.1	63.5	54.8	46.0	43.8	46.0	50.4
55°	208.1	151.2	100.8	72.3	54.8	43.8	39.4	32.9	30.7	32.9	39.4
57.5°	184.0	127.1	81.1	57.0	37.2	28.5	26.3	21.9	17.5	19.7	24.1
59°	168.7	113.9	70.1	46.0	28.5	19.7	19.7	15.3	11.0	13.1	19.7
60°	162.1	105.2	59.2	39.4	24.1	15.3	15.3	11.0	6.6	8.8	15.3
62.5°	138.0	87.6	46.0	24.1	11.0	2.2	6.6	2.2	0.0	2.2	6.6
65°	116.1	70.1	30.7	11.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
67.5°	96.4	52.6	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	76.7	35.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	52.6	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	32.9	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.1	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: P456089  
 CATALOG NUMBER: GALN-SA7B-750-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5
2.5°	8114.9	8428.2	8620.9	8984.6	9357.1	9644.1	10003.4	10325.4	10459.1	10529.2
5°	6259.2	6695.2	7065.5	7619.7	8134.6	8761.2	9396.5	10145.8	10432.8	10507.3
7.5°	4392.6	4837.4	5225.1	5867.1	6601.0	7440.1	8390.9	9341.7	9760.2	9878.5
10°	3172.3	3647.7	4121.0	4762.9	5448.6	6357.8	7348.1	8524.5	9006.5	9098.5
12.5°	2002.4	2512.9	3281.9	4075.0	4800.1	5531.9	6568.1	7847.6	8380.0	8548.6
15°	1161.1	1542.3	2122.9	3157.0	4079.3	5047.7	6178.2	7593.4	8189.3	8362.4
17.5°	777.7	909.2	1307.9	2098.8	3316.9	4600.8	6079.6	7801.6	8461.0	8682.3
20°	655.1	714.2	854.4	1279.4	2554.5	4202.0	6105.9	8366.8	9232.2	9508.2
22.5°	576.2	631.0	720.8	920.2	1783.3	3706.9	6230.7	9175.2	10292.6	10645.3
25°	508.3	563.0	641.9	762.4	1198.4	3135.1	6504.6	10358.3	11696.9	12084.7
27.5°	451.3	501.7	569.6	672.6	922.3	2497.6	6747.8	11510.7	12978.5	13294.0
30°	398.7	440.4	506.1	585.0	766.8	1925.7	6870.5	12518.4	13911.8	14262.4
32.5°	346.2	385.6	449.1	512.7	631.0	1467.9	6785.0	13258.9	14818.8	15042.3
35°	295.8	337.4	390.0	449.1	545.5	1185.2	6357.8	14091.5	15758.7	15934.0
37.5°	254.1	289.2	344.0	390.0	492.9	948.6	5840.8	14840.7	16812.5	17064.4
40°	214.7	249.8	304.5	346.2	453.5	747.1	5374.1	15673.2	17923.2	18234.3
42.5°	175.3	216.9	265.1	333.0	390.0	569.6	4808.9	16348.0	18757.9	19147.9
45°	140.2	186.2	238.8	330.8	339.6	433.8	4263.4	16873.8	19496.3	19846.8
47.5°	111.7	157.7	230.0	308.9	278.2	344.0	3952.3	17423.7	20109.7	20390.1
50°	89.8	131.5	241.0	271.7	232.2	291.4	3943.5	18037.2	20427.4	20613.6
52.5°	72.3	107.4	203.7	208.1	197.2	256.3	4180.1	18727.3	20751.6	20905.0
55°	61.3	89.8	133.6	153.4	177.5	232.2	4357.6	19789.8	21525.0	21669.6
57.5°	48.2	76.7	103.0	122.7	157.7	212.5	4381.7	20609.2	22504.3	22598.5
59°	41.6	65.7	92.0	109.5	144.6	199.4	4283.1	20659.6	22567.8	22719.0
60°	35.1	59.2	81.1	103.0	133.6	188.4	4175.7	20293.7	22331.2	22499.9
62.5°	26.3	46.0	59.2	83.3	109.5	162.1	3667.5	19016.5	21426.4	21544.7
65°	17.5	32.9	43.8	61.3	85.4	140.2	2988.3	17360.2	20028.6	20293.7
67.5°	11.0	24.1	35.1	46.0	70.1	118.3	2129.5	14886.7	18072.2	18243.1
70°	6.6	15.3	26.3	37.2	54.8	94.2	1264.1	11767.0	15035.7	15070.8
72.5°	4.4	11.0	17.5	26.3	43.8	85.4	613.4	7670.1	10978.3	11396.7
75°	2.2	6.6	11.0	19.7	35.1	70.1	293.6	5124.4	7987.8	8108.3
77.5°	0.0	2.2	6.6	13.1	26.3	54.8	170.9	3365.1	5446.4	5571.3
80°	0.0	0.0	4.4	11.0	19.7	35.1	103.0	1984.9	3299.4	3360.7
82.5°	0.0	0.0	2.2	8.8	13.1	26.3	52.6	872.0	2160.2	2182.1
85°	0.0	0.0	2.2	8.8	11.0	17.5	19.7	118.3	959.6	977.1
87.5°	0.0	0.0	2.2	11.0	11.0	11.0	11.0	6.6	81.1	100.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)