

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: P450523

Luminaire Tested: **GALN-SA1B-750-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450523  
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-SA1B-750-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4135 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

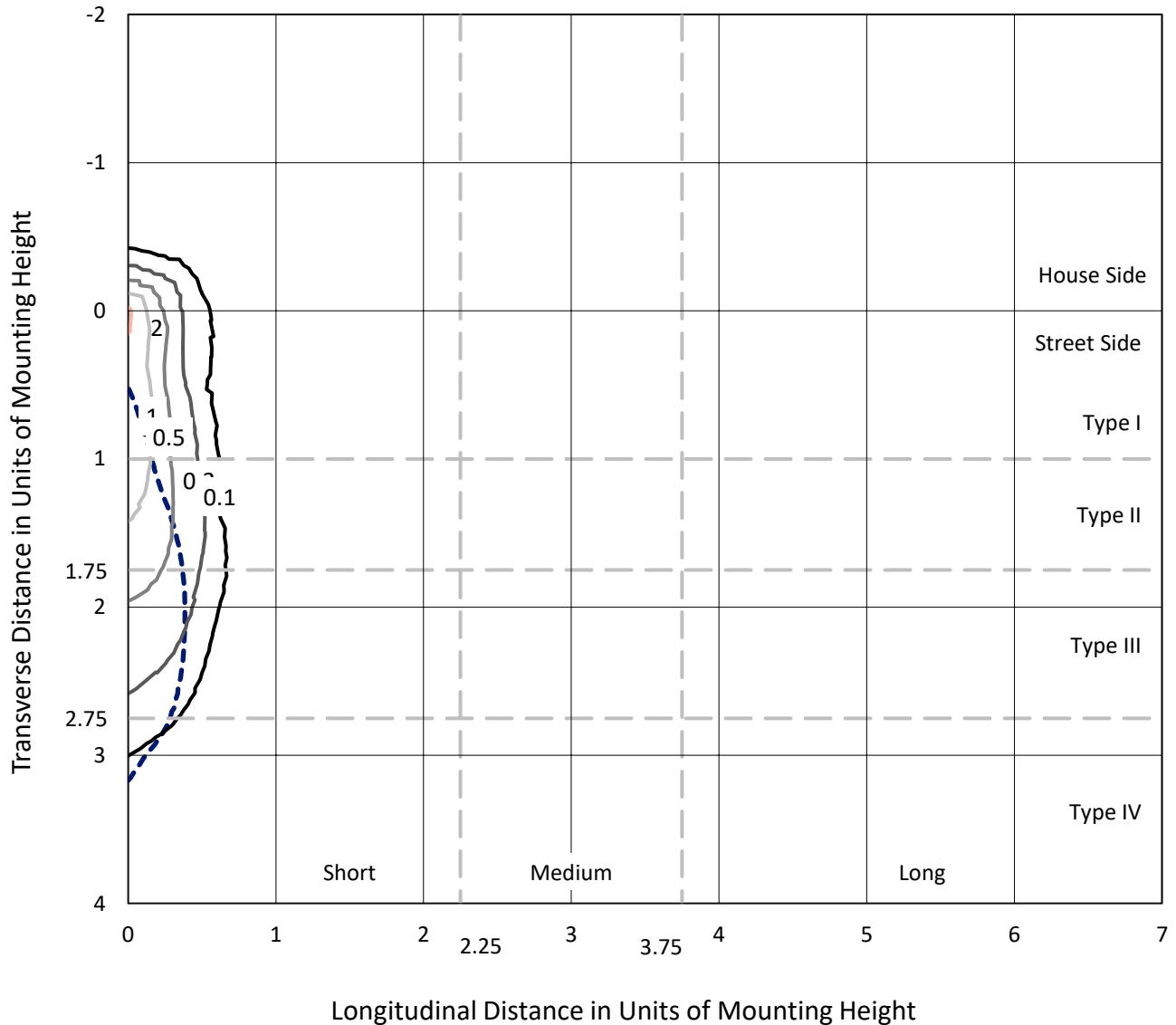




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### Iso-Footcandle Lines of Horizontal Illumination

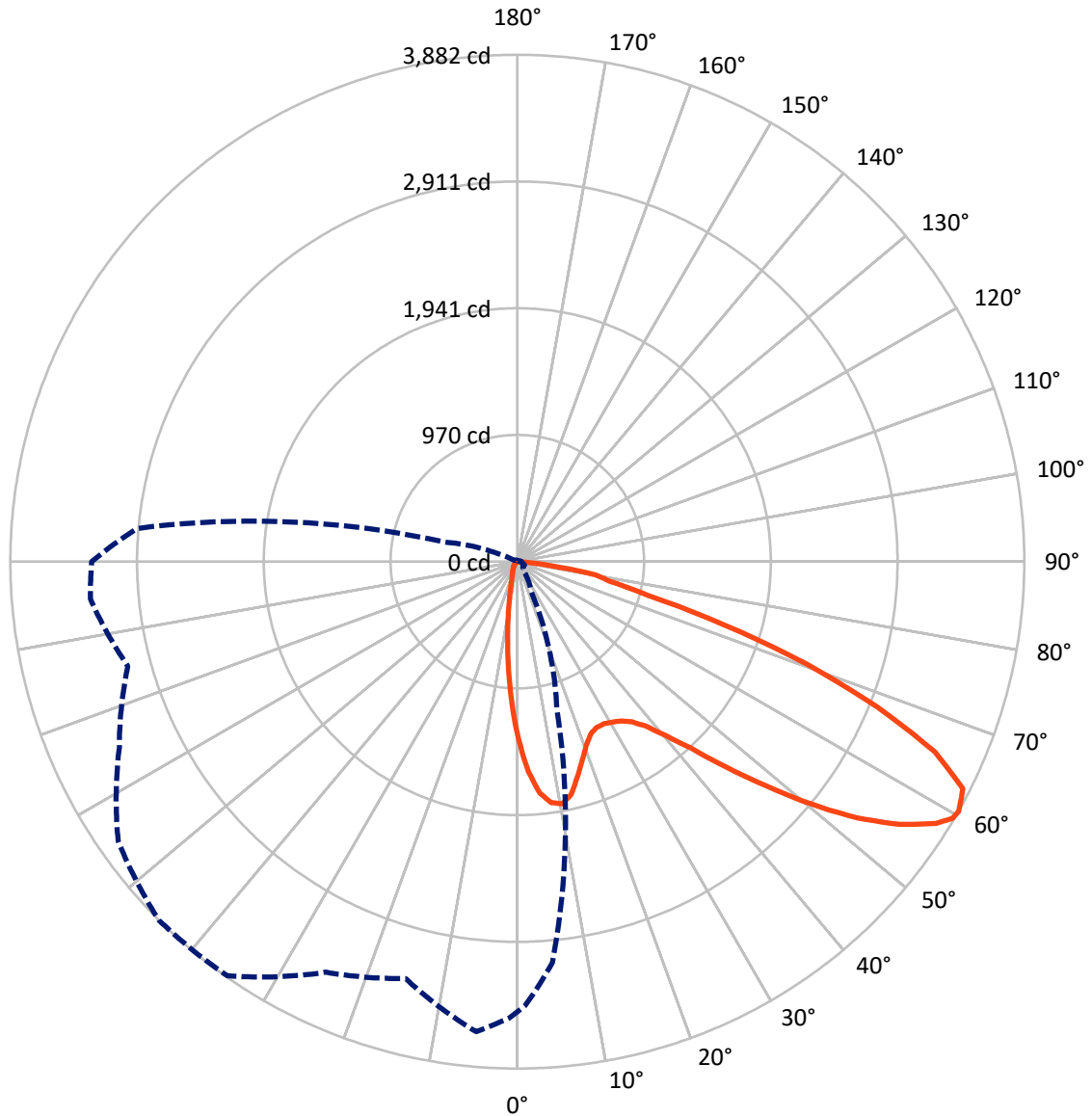
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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
<b>House Side</b>	Lumens	510.0	0.0	510.0
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	3625.0	0.0	3625.0
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	4135.0	0.0	4135.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.6	2.5
10°-20°	201.9	4.9
20°-30°	296.0	7.2
30°-40°	440.2	10.6
40°-50°	640.6	15.5
50°-60°	923.9	22.3
60°-70°	1016.1	24.6
70°-80°	455.1	11.0
80°-90°	59.5	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°	4135.0	100.0
0°-180°	4135.0	100.0

**Coefficient of Utilization**



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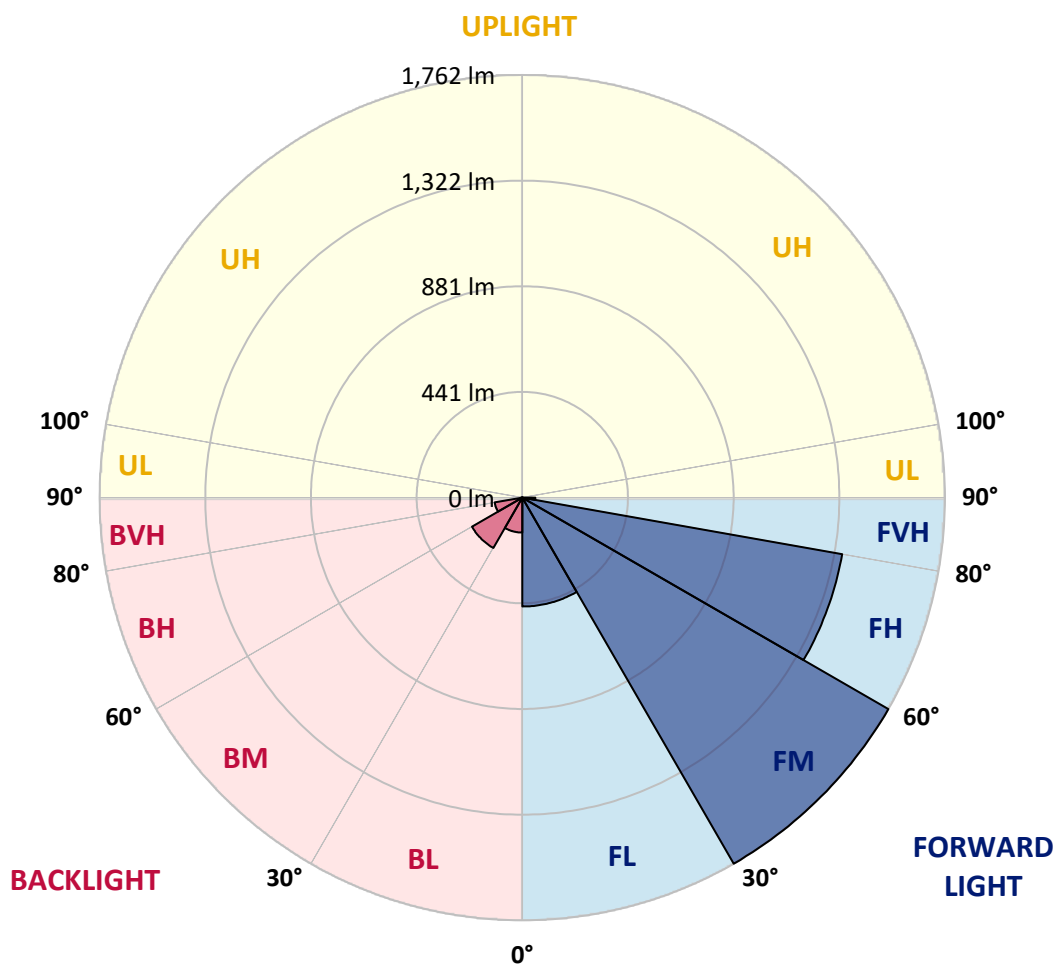
CATALOG NUMBER: GALN-SA1B-750-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.8	11.0			
FM (30°-60°)	1762.5	42.6			
FH (60°-80°)	1354.3	32.8			G1/1800
FVH (80°-90°)	54.4	1.3			G1/100
BL (0°-30°)	145.7	3.5	B1/500		
BM (30°-60°)	242.2	5.9	B1/1000		
BH (60°-80°)	117.0	2.8	B1/500		G1/500
BVH (80°-90°)	5.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7
2.5°	1502.5	1495.9	1480.8	1434.9	1395.0	1342.8	1290.0	1248.5	1223.0	1176.2	1154.8
5°	1455.6	1458.8	1415.1	1320.8	1215.8	1144.1	1065.9	1003.6	935.1	891.7	846.2
7.5°	1333.4	1327.1	1279.6	1148.2	1020.6	916.9	817.9	737.4	686.8	646.2	612.3
10°	1228.7	1224.0	1163.3	994.2	857.2	779.5	712.6	642.2	587.8	528.4	480.9
12.5°	1163.0	1152.3	1082.5	905.9	794.3	722.0	649.1	575.8	500.7	440.7	383.2
15°	1141.0	1125.6	1048.0	875.4	754.1	662.3	570.8	486.6	400.1	333.8	290.4
17.5°	1180.9	1155.5	1072.8	870.0	706.0	584.3	471.8	362.1	272.2	221.6	194.9
20°	1272.4	1243.1	1135.6	864.7	652.5	496.9	358.6	255.9	188.3	160.6	145.8
22.5°	1408.2	1367.9	1228.7	873.2	603.2	411.8	259.0	180.7	149.6	132.3	122.0
25°	1571.3	1537.7	1346.6	903.4	564.2	344.8	200.2	147.7	126.0	115.4	107.5
27.5°	1750.2	1696.4	1499.0	939.5	528.7	292.9	175.7	132.0	112.2	102.5	98.4
30°	1877.5	1835.6	1626.6	964.7	484.4	254.0	160.6	130.1	112.5	100.9	93.4
32.5°	2003.2	1949.7	1733.5	976.3	452.0	226.9	138.9	113.5	98.7	92.7	85.2
35°	2137.7	2081.8	1840.0	970.0	427.8	209.0	126.0	101.2	84.6	74.5	67.0
37.5°	2273.8	2214.7	1946.0	947.4	412.7	201.8	116.0	96.2	79.8	69.5	61.3
40°	2435.4	2356.5	2045.3	928.8	397.0	198.0	109.4	93.0	76.4	65.4	57.2
42.5°	2567.4	2492.3	2139.3	919.1	386.3	189.2	109.4	90.5	74.2	61.9	53.4
45°	2692.5	2614.5	2240.8	926.9	381.9	178.2	110.6	90.2	72.6	59.4	50.9
47.5°	2797.2	2729.6	2345.2	956.5	376.2	166.3	104.0	94.6	71.7	57.2	48.4
50°	2920.7	2855.3	2483.2	1016.2	366.2	154.3	95.9	101.8	71.4	55.3	46.2
52.5°	3094.8	3024.1	2673.6	1084.1	350.2	136.1	88.3	100.9	70.1	52.2	44.0
55°	3307.6	3250.4	2894.3	1165.5	328.2	115.7	76.4	89.6	66.3	46.8	40.2
57.5°	3444.0	3395.3	3059.6	1200.7	294.5	94.6	67.3	75.1	60.7	41.8	35.8
59°	3460.1	3416.1	3094.2	1189.1	272.5	86.4	62.9	64.4	59.1	39.0	33.3
60°	3446.6	3401.0	3080.4	1166.5	252.1	80.8	59.1	57.2	59.4	37.4	31.4
62.5°	3359.8	3281.8	2946.1	1051.7	220.3	74.2	52.5	46.8	52.5	33.6	28.0
65°	3192.3	3075.3	2680.5	890.2	207.8	70.4	44.6	39.3	39.9	29.5	24.2
67.5°	2899.6	2752.2	2326.9	723.3	202.4	70.7	37.7	35.2	30.8	25.1	21.4
70°	2436.9	2289.8	1867.1	595.0	199.9	70.7	32.1	30.2	25.8	21.1	18.5
72.5°	1726.9	1568.5	1259.5	467.4	180.1	70.4	27.3	27.3	21.1	17.6	15.1
75°	975.7	976.9	791.8	330.7	149.6	58.1	22.0	21.7	15.4	13.5	11.3
77.5°	568.6	558.6	533.7	142.1	69.5	26.4	15.4	13.2	10.7	9.7	8.2
80°	292.3	240.5	234.2	51.5	24.8	16.7	10.7	7.5	6.9	6.3	5.7
82.5°	86.4	86.8	77.3	20.7	13.8	11.0	5.3	4.1	3.8	3.5	3.5
85°	6.0	3.8	4.4	6.3	8.5	4.4	0.3	0.9	0.9	1.3	1.6
87.5°	0.6	0.3	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°	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7
2.5°	1131.2	1145.1	1119.3	1119.9	1098.6	1105.5	1080.3	1088.5	1073.7	1085.0	1118.4
5°	851.2	854.3	833.6	827.0	830.1	843.0	848.0	825.1	834.8	815.7	814.4
7.5°	599.7	603.5	591.6	590.0	612.6	607.3	617.0	593.4	571.1	580.9	563.0
10°	465.8	450.1	425.6	418.7	414.3	417.1	417.1	395.7	392.6	384.1	397.0
12.5°	367.8	348.6	325.3	293.9	286.0	285.4	273.8	254.9	248.9	241.7	252.4
15°	267.2	259.3	239.8	222.2	204.3	200.9	182.0	166.6	146.2	143.3	142.4
17.5°	188.0	176.3	176.0	166.0	155.6	148.7	131.1	113.5	105.6	104.7	104.7
20°	140.8	136.7	130.1	128.9	125.7	117.9	102.2	92.7	89.0	89.3	90.5
22.5°	118.5	115.7	109.7	106.9	105.6	98.7	87.1	80.8	78.9	78.9	79.2
25°	105.9	103.4	96.8	92.4	90.8	85.8	76.7	72.0	70.4	70.4	70.4
27.5°	96.5	93.4	86.4	82.7	79.8	74.2	68.5	63.8	62.2	62.2	62.6
30°	89.9	86.4	80.2	75.1	70.7	65.7	61.0	56.9	55.0	54.7	55.0
32.5°	81.1	78.0	71.7	68.5	63.5	57.5	53.7	50.0	48.1	48.4	48.1
35°	63.2	62.2	57.8	58.8	55.9	50.9	47.5	43.4	41.2	40.9	41.5
37.5°	57.5	53.7	48.7	49.0	48.1	46.2	40.5	36.1	34.6	34.6	34.9
40°	53.1	49.3	43.7	40.9	41.2	41.2	35.2	30.5	28.9	28.6	29.2
42.5°	49.3	45.6	39.3	34.6	33.3	34.9	29.9	25.1	23.6	22.9	23.6
45°	46.8	42.7	35.5	30.2	26.4	28.3	24.5	20.7	18.9	18.9	18.5
47.5°	44.3	40.5	32.7	26.1	22.0	21.1	20.1	16.7	14.8	14.5	14.8
50°	42.1	38.3	29.5	22.6	18.5	16.3	16.3	13.2	11.9	11.3	11.6
52.5°	39.9	35.8	26.7	20.1	16.0	13.2	11.6	10.7	9.7	9.4	9.7
55°	36.8	32.7	23.9	17.3	13.8	11.0	9.1	8.8	8.2	7.5	8.2
57.5°	33.0	29.2	21.1	14.8	11.0	8.5	7.5	7.2	6.6	6.3	6.3
59°	30.8	27.3	19.5	12.9	9.7	7.5	6.9	6.6	6.0	5.3	5.7
60°	29.5	26.7	18.5	11.9	8.8	6.9	6.3	6.0	5.3	5.0	5.3
62.5°	26.1	23.9	16.3	9.7	6.9	5.0	4.4	4.7	4.4	4.1	4.4
65°	22.9	21.1	13.8	7.5	5.3	3.5	3.1	4.1	3.8	3.5	3.8
67.5°	20.4	18.2	11.6	5.7	3.8	1.9	2.2	3.5	3.5	3.1	3.5
70°	17.6	15.7	9.4	4.1	1.9	0.9	1.6	2.5	3.1	2.8	3.1
72.5°	14.5	12.3	7.2	2.8	0.9	0.0	0.9	2.2	3.1	2.8	3.1
75°	11.3	9.1	5.3	1.6	0.0	0.0	0.3	1.9	3.1	2.8	3.1
77.5°	8.2	6.6	3.1	0.3	0.0	0.0	0.3	1.9	3.1	2.8	3.1
80°	5.3	4.7	1.3	0.0	0.0	0.0	0.3	1.9	3.1	3.1	3.5
82.5°	3.5	2.5	0.0	0.0	0.0	0.0	0.6	2.5	3.5	3.8	3.8
85°	1.6	0.0	0.0	0.0	0.0	0.0	1.3	3.1	4.1	4.1	4.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	2.2	3.8	4.7	4.7	4.7
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°	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7
2.5°	1124.0	1143.8	1171.8	1214.9	1249.7	1304.8	1346.9	1404.4	1462.5	1480.1	1507.5
5°	827.3	852.8	916.3	974.1	1010.5	1126.8	1200.4	1316.4	1420.4	1470.4	1524.8
7.5°	574.6	604.8	653.2	733.9	810.6	905.3	1024.1	1156.7	1309.2	1380.5	1457.2
10°	403.3	441.0	509.2	575.5	672.0	761.9	879.2	1025.6	1193.8	1278.0	1374.2
12.5°	254.6	288.2	378.4	452.9	573.3	677.7	785.8	918.5	1113.3	1199.8	1300.7
15°	145.5	173.8	215.9	311.5	445.1	583.1	717.9	871.9	1072.2	1178.7	1287.8
17.5°	108.4	116.0	134.8	188.9	310.6	471.8	655.4	857.8	1100.1	1225.2	1349.7
20°	91.2	96.2	105.0	126.4	198.0	363.4	594.4	860.3	1190.7	1347.8	1466.0
22.5°	81.7	84.9	92.1	105.9	135.2	264.7	523.0	875.1	1300.4	1498.4	1634.8
25°	71.7	75.8	82.0	94.0	112.5	183.6	452.6	908.1	1454.1	1689.5	1817.7
27.5°	63.8	67.6	73.9	84.9	98.7	140.2	370.6	936.4	1616.2	1881.9	1986.8
30°	55.9	59.7	66.0	74.8	87.4	113.5	282.3	953.0	1773.7	2026.1	2106.9
32.5°	49.3	52.5	58.5	66.3	76.7	96.2	222.5	935.7	1894.1	2157.2	2211.3
35°	42.7	46.5	51.5	58.8	67.9	82.0	185.1	876.0	1997.5	2292.0	2311.5
37.5°	35.8	40.2	45.6	52.2	59.4	75.4	148.7	810.0	2108.2	2460.2	2428.1
40°	30.2	34.3	39.3	46.5	53.1	69.2	114.4	739.6	2227.6	2618.0	2555.4
42.5°	24.5	28.9	34.9	41.5	52.5	60.4	88.6	666.7	2334.8	2755.4	2670.5
45°	19.5	23.3	29.5	38.0	52.2	51.9	68.5	594.7	2415.6	2853.4	2756.3
47.5°	15.4	18.5	24.8	37.1	48.1	44.0	55.0	550.1	2500.4	2941.7	2822.0
50°	12.3	15.4	21.4	38.7	42.1	37.7	46.2	557.3	2582.5	2986.7	2849.0
52.5°	10.4	13.5	18.5	30.5	32.4	33.0	40.5	590.6	2688.4	3034.8	2902.8
55°	9.1	11.9	15.7	21.4	25.1	29.5	37.1	614.8	2830.2	3137.9	3021.3
57.5°	7.2	10.4	14.1	18.2	20.7	25.8	34.3	616.7	2958.4	3270.2	3178.7
59°	6.6	9.4	13.2	17.3	18.5	23.3	32.4	600.7	2963.1	3290.0	3251.0
60°	6.0	9.1	12.6	16.0	17.6	22.0	30.8	582.1	2920.4	3258.6	3280.9
62.5°	5.0	7.9	11.0	12.9	15.1	18.2	26.7	514.9	2713.2	3116.2	3225.6
65°	4.4	6.9	9.4	10.7	12.6	15.7	23.6	412.1	2484.4	2923.2	3067.2
67.5°	4.1	6.3	8.2	9.1	11.0	14.5	21.1	291.1	2188.0	2678.3	2829.2
70°	3.8	6.0	7.2	8.5	9.7	12.3	17.9	169.7	1685.4	2249.0	2408.3
72.5°	3.8	5.7	6.3	7.2	8.5	11.0	16.7	91.8	1152.3	1715.6	1921.5
75°	3.8	5.3	5.7	6.3	7.5	10.1	14.8	48.1	744.9	1191.9	1471.0
77.5°	3.8	5.0	5.7	6.0	7.2	8.8	12.9	30.2	496.3	834.8	994.2
80°	4.1	5.0	5.3	6.0	6.9	8.2	10.7	20.1	291.7	502.3	605.1
82.5°	4.4	5.0	5.7	6.3	7.2	7.9	9.4	12.6	134.5	332.2	375.9
85°	4.7	5.3	6.0	6.6	7.5	7.9	8.8	9.1	22.0	149.9	202.7
87.5°	5.0	5.7	6.3	6.9	8.2	8.2	8.2	8.2	7.5	16.0	40.9
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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CATALOG NUMBER: GALN-SA1B-750-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7
2.5°	1542.1	1577.6	1602.4	1608.7	1590.8	1582.6	1560.0	1524.8	1503.4	1502.5
5°	1625.1	1708.3	1766.2	1775.9	1741.3	1682.9	1613.4	1523.8	1471.3	1455.6
7.5°	1610.9	1756.8	1849.8	1863.3	1805.2	1693.6	1559.0	1414.8	1357.6	1333.4
10°	1552.8	1730.7	1863.6	1885.0	1807.4	1650.2	1479.2	1318.3	1247.2	1228.7
12.5°	1503.1	1682.9	1801.1	1830.6	1771.8	1615.0	1431.4	1256.3	1180.3	1163.0
15°	1481.4	1626.3	1698.6	1713.7	1703.9	1593.0	1426.4	1246.9	1159.9	1141.0
17.5°	1503.1	1578.2	1587.3	1602.7	1624.4	1590.8	1474.8	1298.2	1204.2	1180.9
20°	1560.0	1536.4	1498.7	1505.3	1555.0	1599.9	1560.9	1411.6	1297.2	1272.4
22.5°	1656.8	1526.0	1440.5	1434.9	1497.7	1630.4	1687.3	1565.3	1432.7	1408.2
25°	1775.6	1552.1	1419.2	1406.9	1475.4	1675.0	1824.6	1753.6	1608.7	1571.3
27.5°	1905.1	1606.2	1419.2	1407.2	1473.5	1714.6	1942.2	1920.2	1791.0	1750.2
30°	1976.1	1650.8	1439.6	1426.1	1496.8	1737.6	2005.1	2068.2	1928.1	1877.5
32.5°	2039.6	1712.7	1479.5	1454.1	1545.5	1771.5	2061.3	2194.0	2037.1	2003.2
35°	2098.1	1779.1	1534.5	1505.0	1609.6	1818.0	2123.6	2326.0	2188.9	2137.7
37.5°	2162.5	1856.1	1620.3	1595.2	1716.8	1908.6	2197.4	2499.5	2338.2	2273.8
40°	2232.6	1945.3	1761.5	1750.8	1887.2	2011.0	2290.8	2684.6	2508.6	2435.4
42.5°	2304.0	2048.1	1934.3	1951.9	2080.2	2154.7	2386.7	2827.0	2648.2	2567.4
45°	2368.7	2179.5	2159.1	2246.2	2305.2	2294.9	2457.7	2927.3	2769.8	2692.5
47.5°	2450.5	2370.9	2431.0	2565.2	2566.8	2447.3	2511.4	3009.3	2874.5	2797.2
50°	2541.9	2596.9	2782.1	2918.8	2882.0	2597.3	2574.3	3106.5	2982.6	2920.7
52.5°	2647.9	2850.0	3106.5	3258.3	3172.5	2760.7	2679.0	3211.4	3154.2	3094.8
55°	2771.1	3022.5	3429.9	3550.9	3464.5	2963.8	2838.0	3353.8	3348.2	3307.6
57.5°	2910.3	3204.8	3617.2	3781.0	3704.0	3202.0	3060.2	3488.0	3466.7	3444.0
59°	3020.3	3298.5	3699.9	3869.6	3823.1	3368.9	3209.6	3571.7	3494.0	3460.1
60°	3087.0	3362.0	3730.4	3881.6	3870.9	3468.2	3304.2	3612.5	3493.7	3446.6
62.5°	3284.7	3473.0	3718.8	3828.5	3870.3	3658.7	3581.7	3657.5	3429.0	3359.8
65°	3355.1	3436.2	3526.1	3512.6	3548.4	3649.0	3759.0	3608.1	3290.6	3192.3
67.5°	3218.0	3032.9	3064.6	2974.4	2956.8	3244.1	3687.0	3366.7	3020.0	2899.6
70°	2712.6	2323.5	2307.4	2348.9	2235.2	2626.5	3310.8	2901.8	2573.4	2436.9
72.5°	2135.2	1642.0	1506.9	1659.6	1656.2	2003.8	2750.3	2059.1	1738.5	1726.9
75°	1679.1	1143.2	1003.3	1028.2	1075.9	1450.6	2190.5	1307.6	1070.6	975.7
77.5°	1127.2	810.0	755.6	725.1	776.7	931.3	1385.9	709.1	600.4	568.6
80°	649.7	588.4	668.3	606.6	634.3	586.8	689.3	325.3	270.0	292.3
82.5°	422.8	335.1	357.1	265.3	362.7	365.9	221.3	96.2	81.4	86.4
85°	264.3	157.2	88.3	62.9	125.1	230.1	69.2	6.0	6.9	6.0
87.5°	68.5	26.1	11.0	16.3	20.1	17.9	16.0	0.9	0.3	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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