

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: P451942

Luminaire Tested: **GALN-SA2D-760-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451942  
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-SA2D-760-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 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: 11172 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

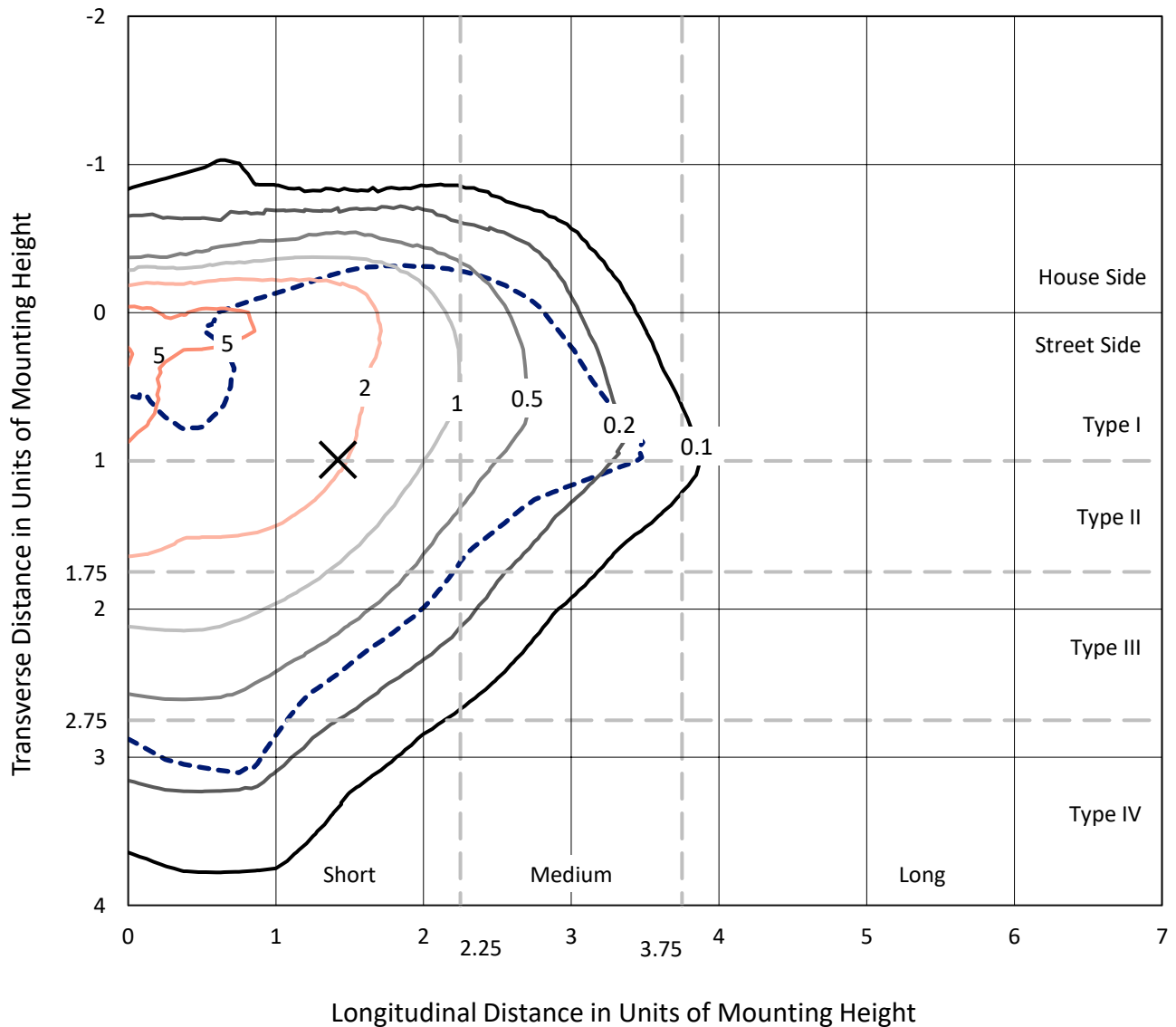
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

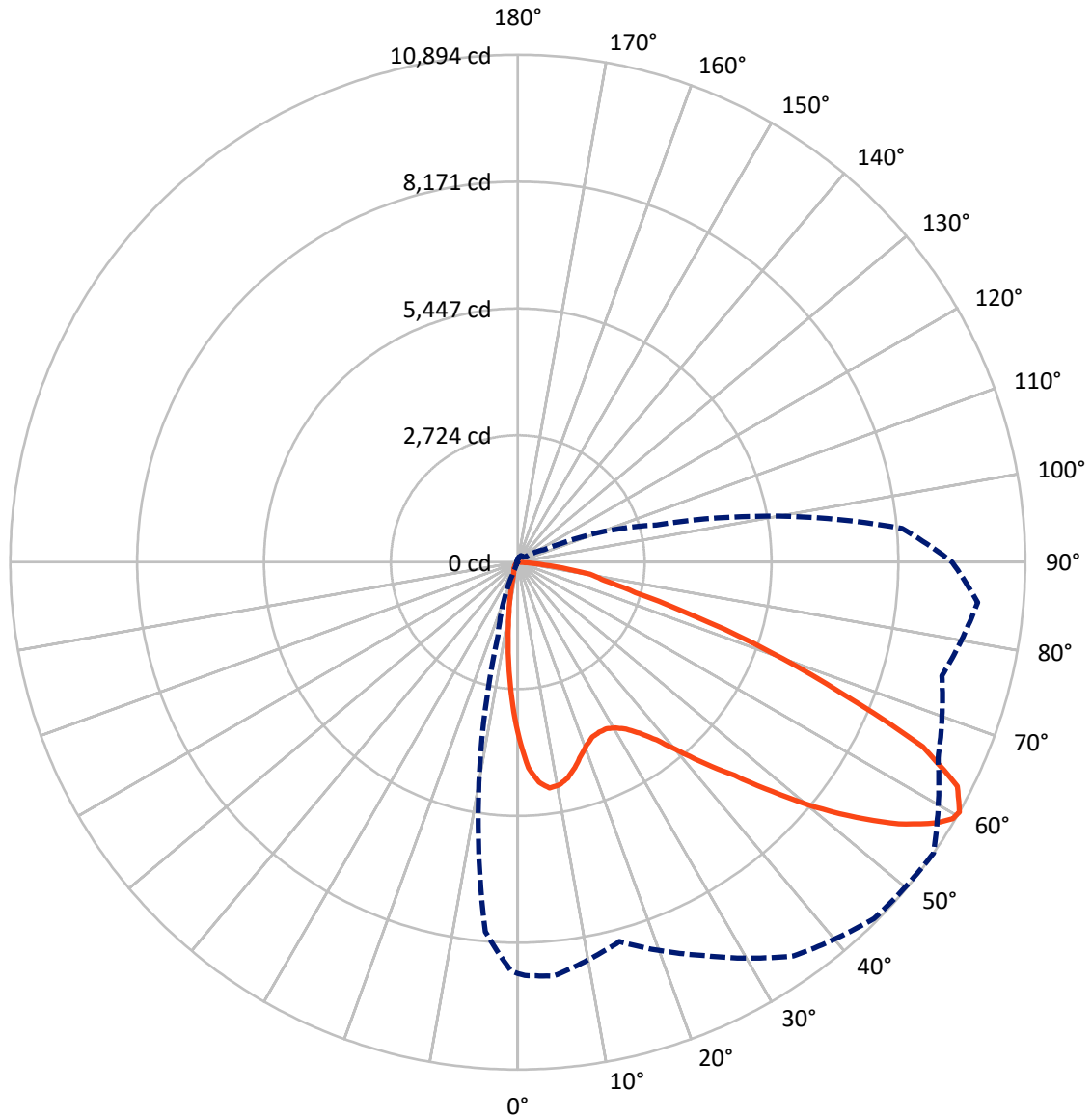
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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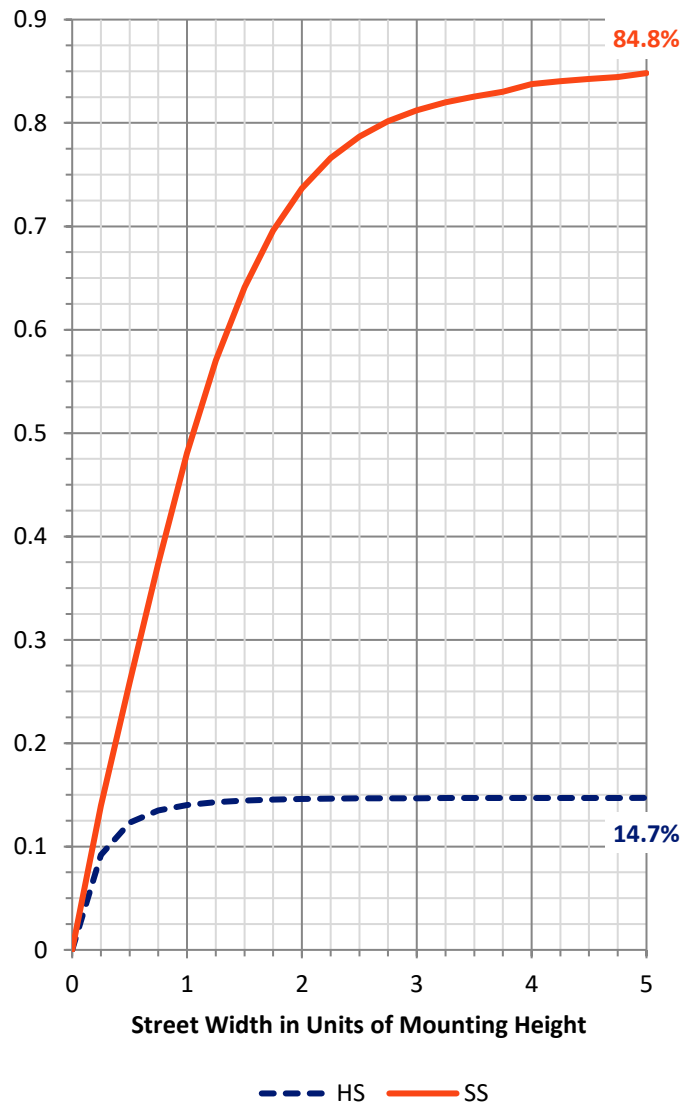
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1658.0	0.0	1658.0
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	9514.0	0.0	9514.0
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	11172.0	0.0	11172.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.1	2.5
10°-20°	551.6	4.9
20°-30°	816.5	7.3
30°-40°	1217.1	10.9
40°-50°	1782.4	16.0
50°-60°	2573.3	23.0
60°-70°	2707.0	24.2
70°-80°	1113.6	10.0
80°-90°	130.4	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°	11172.0	100.0
0°-180°	11172.0	100.0



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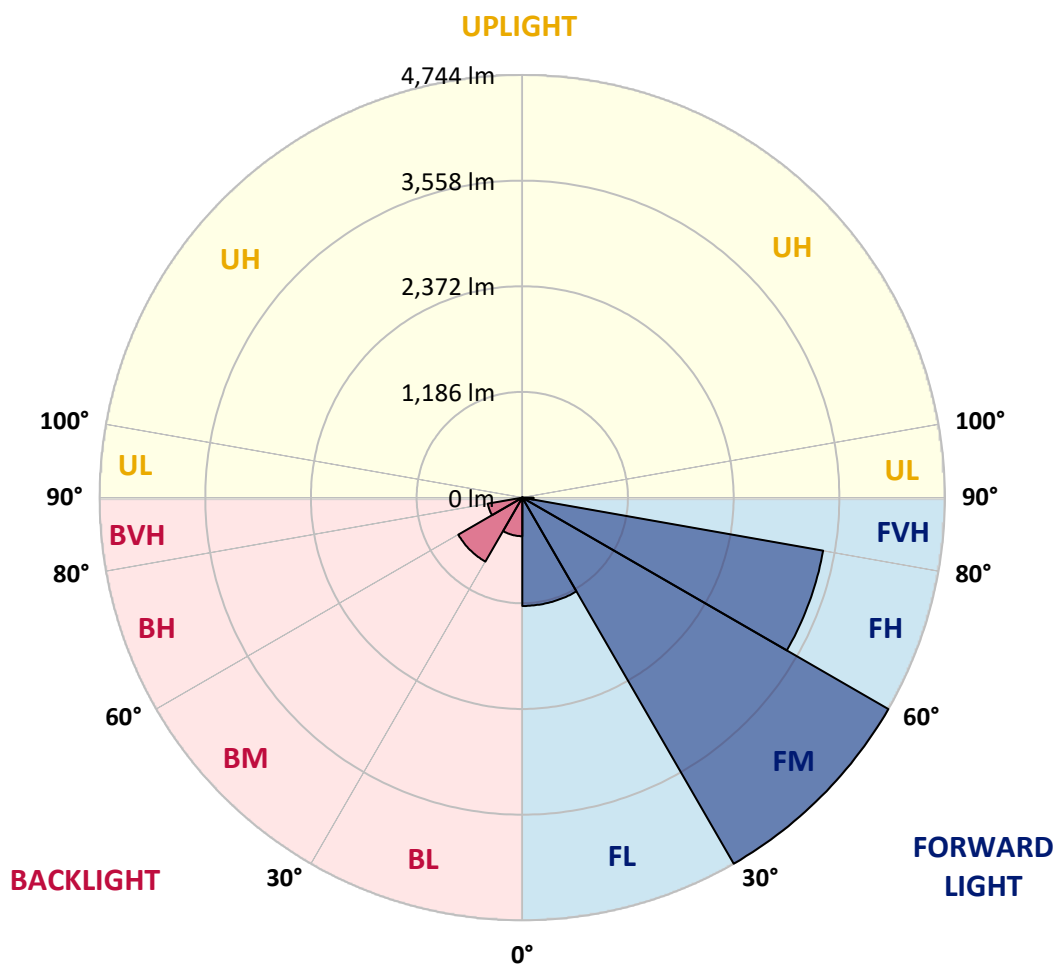
CATALOG NUMBER: GALN-SA2D-760-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1215.7	10.9			
FM	(30°-60°)	4743.6	42.5			
FH	(60°-80°)	3428.1	30.7			G2/5000
FVH	(80°-90°)	126.6	1.1			G2/225
BL	(0°-30°)	432.6	3.9	B1/500		
BM	(30°-60°)	829.2	7.4	B1/1000		
BH	(60°-80°)	392.4	3.5	B1/500		G1/500
BVH	(80°-90°)	3.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8
2.5°	4132.8	4125.9	4187.0	4286.7	4387.3	4439.8	4429.5	4425.2	4341.8	4280.7	4152.6
5°	4124.2	4159.5	4268.7	4538.7	4743.3	4842.2	4871.5	4748.5	4586.0	4350.4	4059.7
7.5°	3877.4	3921.3	4099.3	4521.5	4885.2	5100.2	5092.5	4895.6	4560.2	4195.6	3781.1
10°	3571.3	3622.9	3831.8	4344.3	4816.4	5100.2	5115.7	4866.3	4449.2	3981.5	3545.5
12.5°	3355.4	3416.5	3647.8	4179.2	4639.3	4918.8	4936.8	4756.2	4365.8	3898.9	3417.3
15°	3282.3	3339.9	3574.7	4095.8	4451.0	4601.5	4597.2	4578.2	4333.2	3918.7	3424.2
17.5°	3407.9	3455.2	3720.0	4133.7	4274.7	4259.2	4281.6	4372.7	4340.0	4084.6	3640.9
20°	3732.1	3780.2	4064.9	4249.7	4139.7	4041.6	4052.0	4204.2	4403.7	4396.8	3979.7
22.5°	4178.4	4260.1	4518.0	4475.0	4121.6	3906.6	3885.1	4082.9	4512.0	4756.2	4437.2
25°	4743.3	4825.9	5027.1	4834.5	4210.2	3874.8	3855.0	4045.9	4643.6	5107.1	4952.3
27.5°	5218.0	5280.8	5481.2	5184.5	4340.9	3888.6	3855.9	4051.1	4750.2	5405.5	5386.6
30°	5598.1	5644.5	5762.4	5347.9	4453.5	3948.8	3910.9	4126.8	4797.5	5550.8	5738.3
32.5°	5904.2	5982.5	6019.5	5522.4	4615.2	4062.3	3997.8	4272.1	4912.7	5730.5	6107.2
35°	6254.2	6344.5	6297.2	5689.3	4828.5	4239.4	4160.3	4507.7	5087.3	5896.5	6535.4
37.5°	6698.0	6802.0	6617.1	5864.7	5053.8	4506.0	4469.0	4838.8	5352.2	6133.8	6994.6
40°	7157.2	7217.3	6927.6	6077.9	5330.7	4893.8	4929.1	5330.7	5698.7	6418.5	7483.1
42.5°	7515.7	7572.5	7246.6	6256.8	5613.6	5353.9	5500.9	5924.0	6096.0	6710.0	7847.7
45°	7790.1	7838.2	7467.6	6452.0	5995.4	6020.3	6298.1	6535.4	6494.2	6888.0	8128.9
47.5°	8003.3	8044.6	7637.9	6661.8	6567.2	6835.5	7260.3	7361.0	6906.9	7080.6	8383.4
50°	8091.0	8103.1	7691.2	6929.3	7216.5	7874.3	8317.2	8256.1	7379.9	7294.7	8654.3
52.5°	8205.4	8202.8	7843.4	7183.8	7827.0	8803.0	9245.0	9106.6	7914.7	7615.5	8958.7
55°	8505.5	8509.0	8169.3	7545.0	8347.3	9552.9	10025.9	9925.2	8478.9	8157.2	9313.8
57.5°	8870.1	8883.0	8632.8	7967.2	8844.3	10096.4	10608.9	10570.2	9241.6	8760.1	9649.2
59°	8917.4	8943.2	8852.1	8264.7	9139.3	10263.2	10808.4	10846.2	9650.1	9157.3	9830.7
60°	8831.4	8874.4	8915.7	8433.3	9312.1	10323.4	10820.4	10894.4	9957.1	9427.4	9913.2
62.5°	8456.5	8524.4	8731.7	8951.8	9528.0	10135.9	10436.0	10590.8	10337.2	10136.8	9921.0
65°	7965.5	8000.7	8300.0	9043.8	9109.2	9260.5	9353.4	9552.0	9880.5	10410.2	9565.8
67.5°	7160.6	7264.6	7631.0	8509.8	7873.5	7694.6	7671.4	7473.6	8326.6	9758.4	8690.4
70°	5915.4	5961.9	6413.3	6976.6	5942.1	5666.9	5777.0	5703.0	6454.6	8400.6	6994.6
72.5°	4473.3	4578.2	5019.4	5561.1	4043.4	3686.5	3990.1	3962.5	4848.3	6751.3	4805.3
75°	3182.6	3250.5	3812.9	4352.1	2831.7	2399.2	2508.4	2610.7	3384.7	5330.7	2839.5
77.5°	2186.8	2245.3	2667.5	2878.2	2065.5	1978.7	1810.1	1909.0	2217.7	3162.8	1545.3
80°	1319.1	1316.5	1594.3	1645.9	1438.7	1670.8	1401.7	1573.7	1340.6	1353.5	598.5
82.5°	856.5	847.9	975.2	1062.9	800.6	841.9	565.0	814.3	873.7	377.5	189.2
85°	383.5	399.9	468.7	618.3	350.8	186.6	115.2	250.2	372.3	190.0	0.0
87.5°	39.6	31.0	82.6	150.5	48.2	5.2	17.2	8.6	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°	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8
2.5°	4093.2	4043.4	3894.6	3755.3	3635.8	3489.6	3395.0	3246.2	3155.9	3128.4	3132.7
5°	3929.0	3785.4	3502.5	3276.3	3024.4	2880.7	2662.3	2452.5	2339.0	2296.9	2277.9
7.5°	3585.0	3431.1	3089.7	2734.6	2464.5	2212.6	2050.1	1865.2	1738.8	1634.7	1616.7
10°	3329.6	3127.5	2704.5	2322.7	2109.4	1920.2	1757.7	1572.8	1424.0	1305.4	1272.7
12.5°	3176.6	2950.4	2478.3	2158.4	1956.3	1762.0	1550.4	1336.3	1184.1	1056.0	996.7
15°	3149.0	2886.8	2414.7	2040.6	1791.2	1556.5	1275.3	1043.9	887.4	766.2	729.2
17.5°	3315.0	3001.1	2405.2	1917.6	1575.4	1242.6	950.2	758.5	582.2	514.2	487.6
20°	3610.8	3203.2	2404.3	1774.9	1353.5	957.1	667.3	494.5	423.1	390.4	374.9
22.5°	4014.1	3478.4	2449.9	1651.9	1123.1	706.0	476.4	393.8	352.6	325.9	319.9
25°	4506.9	3886.0	2561.7	1568.5	946.8	553.8	393.0	337.1	302.7	290.7	285.5
27.5°	4944.6	4276.4	2684.7	1482.5	820.4	490.2	364.6	308.7	281.2	271.7	264.0
30°	5322.1	4630.7	2744.0	1369.0	718.9	448.9	369.8	330.2	294.1	265.7	252.8
32.5°	5636.8	4902.4	2782.7	1265.8	632.9	367.2	292.4	255.4	239.1	228.7	220.1
35°	6030.7	5196.5	2759.5	1207.3	589.0	334.5	266.6	220.1	192.6	172.0	163.4
37.5°	6443.4	5490.6	2719.1	1159.2	569.3	310.4	253.7	209.0	178.9	157.4	146.2
40°	6870.8	5763.2	2671.8	1114.5	551.2	295.0	245.9	199.5	169.4	146.2	134.1
42.5°	7262.1	6028.9	2652.9	1085.2	522.0	297.5	239.9	195.2	159.9	135.9	125.5
45°	7578.5	6280.9	2678.7	1069.7	490.2	293.2	241.6	190.0	152.2	129.0	118.7
47.5°	7916.5	6636.9	2762.1	1054.3	459.2	272.6	254.5	189.2	148.8	124.7	113.5
50°	8309.5	7092.7	2953.0	1016.4	421.4	250.2	270.9	188.3	144.5	119.5	108.4
52.5°	8833.1	7610.3	3149.9	950.2	366.3	228.7	258.8	185.7	135.9	113.5	102.3
55°	9303.5	8155.5	3316.7	872.0	296.7	197.8	233.0	174.6	121.2	103.2	92.9
57.5°	9497.9	8463.4	3311.6	763.6	237.3	173.7	191.8	159.9	105.8	91.2	82.6
59°	9426.5	8424.7	3200.6	683.6	216.7	160.8	159.1	158.2	98.9	82.6	75.7
60°	9325.9	8283.7	3081.1	644.1	203.8	152.2	146.2	156.5	92.9	77.4	70.5
62.5°	8940.6	7698.9	2684.7	577.0	186.6	129.0	116.9	132.4	82.6	67.1	61.1
65°	8382.5	6800.3	2272.8	558.1	181.4	106.6	97.2	94.6	70.5	56.8	51.6
67.5°	7293.9	5754.6	1841.1	545.2	183.2	89.4	85.1	71.4	58.5	47.3	43.9
70°	5839.7	4487.1	1507.4	530.6	184.9	73.1	71.4	56.8	47.3	39.6	36.1
72.5°	3548.0	2659.7	1186.7	460.9	179.7	58.5	63.6	43.0	34.4	28.4	26.7
75°	2193.7	1820.5	736.1	358.6	118.7	43.0	44.7	26.7	23.2	18.1	18.1
77.5°	1271.0	1149.7	263.1	129.0	52.5	25.8	19.8	13.8	12.9	7.7	7.7
80°	527.1	422.2	91.2	43.9	28.4	12.0	4.3	0.9	0.0	0.0	0.0
82.5°	153.9	136.7	24.9	19.8	8.6	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°	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8
2.5°	3059.6	3031.2	3018.3	3062.2	3021.8	3073.4	3033.8	3051.0	3101.7	3124.1	3181.7
5°	2290.0	2260.7	2247.0	2313.2	2309.8	2342.4	2339.0	2369.1	2394.9	2337.3	2396.6
7.5°	1595.2	1575.4	1608.1	1659.7	1714.7	1696.6	1696.6	1656.2	1670.0	1661.4	1658.8
10°	1213.4	1145.4	1128.2	1126.5	1147.1	1151.4	1128.2	1072.3	1093.0	1099.0	1135.1
12.5°	954.5	902.1	822.1	786.0	776.5	784.3	707.7	658.7	681.9	668.2	703.4
15°	684.5	641.5	594.2	553.8	542.6	527.1	443.7	385.2	378.4	380.9	387.0
17.5°	488.4	459.2	459.2	416.2	393.0	346.5	304.4	278.6	276.0	278.6	282.9
20°	360.3	344.8	343.1	331.9	306.1	275.2	245.9	240.8	239.1	243.4	245.1
22.5°	310.4	294.1	280.3	279.5	255.4	229.6	215.8	209.0	209.8	211.5	215.8
25°	277.8	260.6	245.9	237.3	220.1	202.1	189.2	185.7	185.7	188.3	189.2
27.5°	254.5	233.0	220.1	208.1	192.6	177.1	166.0	163.4	161.7	163.4	167.7
30°	238.2	216.7	200.4	182.3	170.3	155.6	146.2	142.7	141.9	142.7	146.2
32.5°	203.8	190.9	178.0	161.7	147.0	137.6	127.3	121.2	121.2	123.0	126.4
35°	153.9	147.0	146.2	141.9	129.8	119.5	107.5	101.5	101.5	104.9	106.6
37.5°	135.9	123.0	121.2	119.5	114.4	100.6	89.4	84.3	83.4	86.0	89.4
40°	123.8	109.2	101.5	99.8	100.6	85.1	73.1	67.9	67.9	68.8	72.2
42.5°	114.4	97.2	83.4	81.7	85.1	71.4	59.3	54.2	54.2	54.2	58.5
45°	106.6	86.9	70.5	61.9	67.1	58.5	48.2	43.0	41.3	43.0	44.7
47.5°	101.5	79.1	61.9	49.9	49.9	46.4	38.7	32.7	31.0	31.8	34.4
50°	97.2	72.2	52.5	40.4	36.1	37.0	29.2	24.9	23.2	23.2	25.8
52.5°	90.3	65.4	45.6	34.4	27.5	24.9	21.5	18.1	17.2	18.1	19.8
55°	81.7	59.3	39.6	28.4	21.5	17.2	15.5	12.9	12.0	12.9	15.5
57.5°	72.2	49.9	31.8	22.4	14.6	11.2	10.3	8.6	6.9	7.7	9.5
59°	66.2	44.7	27.5	18.1	11.2	7.7	7.7	6.0	4.3	5.2	7.7
60°	63.6	41.3	23.2	15.5	9.5	6.0	6.0	4.3	2.6	3.4	6.0
62.5°	54.2	34.4	18.1	9.5	4.3	0.9	2.6	0.9	0.0	0.9	2.6
65°	45.6	27.5	12.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9
67.5°	37.8	20.6	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	30.1	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	20.6	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.2	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: P451942  
 CATALOG NUMBER: GALN-SA2D-760-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8
2.5°	3185.2	3308.1	3383.8	3526.6	3672.7	3785.4	3926.4	4052.8	4105.3	4132.8
5°	2456.8	2627.9	2773.3	2990.8	3192.9	3438.8	3688.2	3982.3	4095.0	4124.2
7.5°	1724.1	1898.7	2050.9	2302.9	2591.0	2920.3	3293.5	3666.7	3831.0	3877.4
10°	1245.2	1431.8	1617.5	1869.5	2138.6	2495.5	2884.2	3346.0	3535.2	3571.3
12.5°	786.0	986.3	1288.2	1599.5	1884.1	2171.3	2578.1	3080.2	3289.2	3355.4
15°	455.8	605.4	833.3	1239.2	1601.2	1981.3	2425.0	2980.5	3214.4	3282.3
17.5°	305.3	356.9	513.4	823.8	1301.9	1805.8	2386.3	3062.2	3321.0	3407.9
20°	257.1	280.3	335.4	502.2	1002.7	1649.3	2396.6	3284.1	3623.7	3732.1
22.5°	226.2	247.7	282.9	361.2	700.0	1455.0	2445.6	3601.4	4039.9	4178.4
25°	199.5	221.0	252.0	299.3	470.4	1230.6	2553.1	4065.7	4591.1	4743.3
27.5°	177.1	196.9	223.6	264.0	362.0	980.3	2648.6	4518.0	5094.2	5218.0
30°	156.5	172.8	198.6	229.6	301.0	755.9	2696.7	4913.6	5460.5	5598.1
32.5°	135.9	151.3	176.3	201.2	247.7	576.1	2663.2	5204.3	5816.5	5904.2
35°	116.1	132.4	153.1	176.3	214.1	465.2	2495.5	5531.0	6185.4	6254.2
37.5°	99.8	113.5	135.0	153.1	193.5	372.3	2292.6	5825.1	6599.1	6698.0
40°	84.3	98.0	119.5	135.9	178.0	293.2	2109.4	6151.9	7035.0	7157.2
42.5°	68.8	85.1	104.1	130.7	153.1	223.6	1887.5	6416.8	7362.7	7515.7
45°	55.0	73.1	93.7	129.8	133.3	170.3	1673.4	6623.1	7652.5	7790.1
47.5°	43.9	61.9	90.3	121.2	109.2	135.0	1551.3	6839.0	7893.2	8003.3
50°	35.3	51.6	94.6	106.6	91.2	114.4	1547.9	7079.8	8017.9	8091.0
52.5°	28.4	42.1	80.0	81.7	77.4	100.6	1640.7	7350.6	8145.2	8205.4
55°	24.1	35.3	52.5	60.2	69.7	91.2	1710.4	7767.7	8448.8	8505.5
57.5°	18.9	30.1	40.4	48.2	61.9	83.4	1719.8	8089.3	8833.1	8870.1
59°	16.3	25.8	36.1	43.0	56.8	78.3	1681.2	8109.1	8858.1	8917.4
60°	13.8	23.2	31.8	40.4	52.5	74.0	1639.0	7965.5	8765.2	8831.4
62.5°	10.3	18.1	23.2	32.7	43.0	63.6	1439.5	7464.1	8410.1	8456.5
65°	6.9	12.9	17.2	24.1	33.5	55.0	1172.9	6814.0	7861.4	7965.5
67.5°	4.3	9.5	13.8	18.1	27.5	46.4	835.8	5843.2	7093.5	7160.6
70°	2.6	6.0	10.3	14.6	21.5	37.0	496.2	4618.7	5901.7	5915.4
72.5°	1.7	4.3	6.9	10.3	17.2	33.5	240.8	3010.6	4309.1	4473.3
75°	0.9	2.6	4.3	7.7	13.8	27.5	115.2	2011.4	3135.3	3182.6
77.5°	0.0	0.9	2.6	5.2	10.3	21.5	67.1	1320.8	2137.8	2186.8
80°	0.0	0.0	1.7	4.3	7.7	13.8	40.4	779.1	1295.0	1319.1
82.5°	0.0	0.0	0.9	3.4	5.2	10.3	20.6	342.2	847.9	856.5
85°	0.0	0.0	0.9	3.4	4.3	6.9	7.7	46.4	376.6	383.5
87.5°	0.0	0.0	0.9	4.3	4.3	4.3	4.3	2.6	31.8	39.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)