

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: P533438

Luminaire Tested: **GALN-SA8D-760-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-760-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46523 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

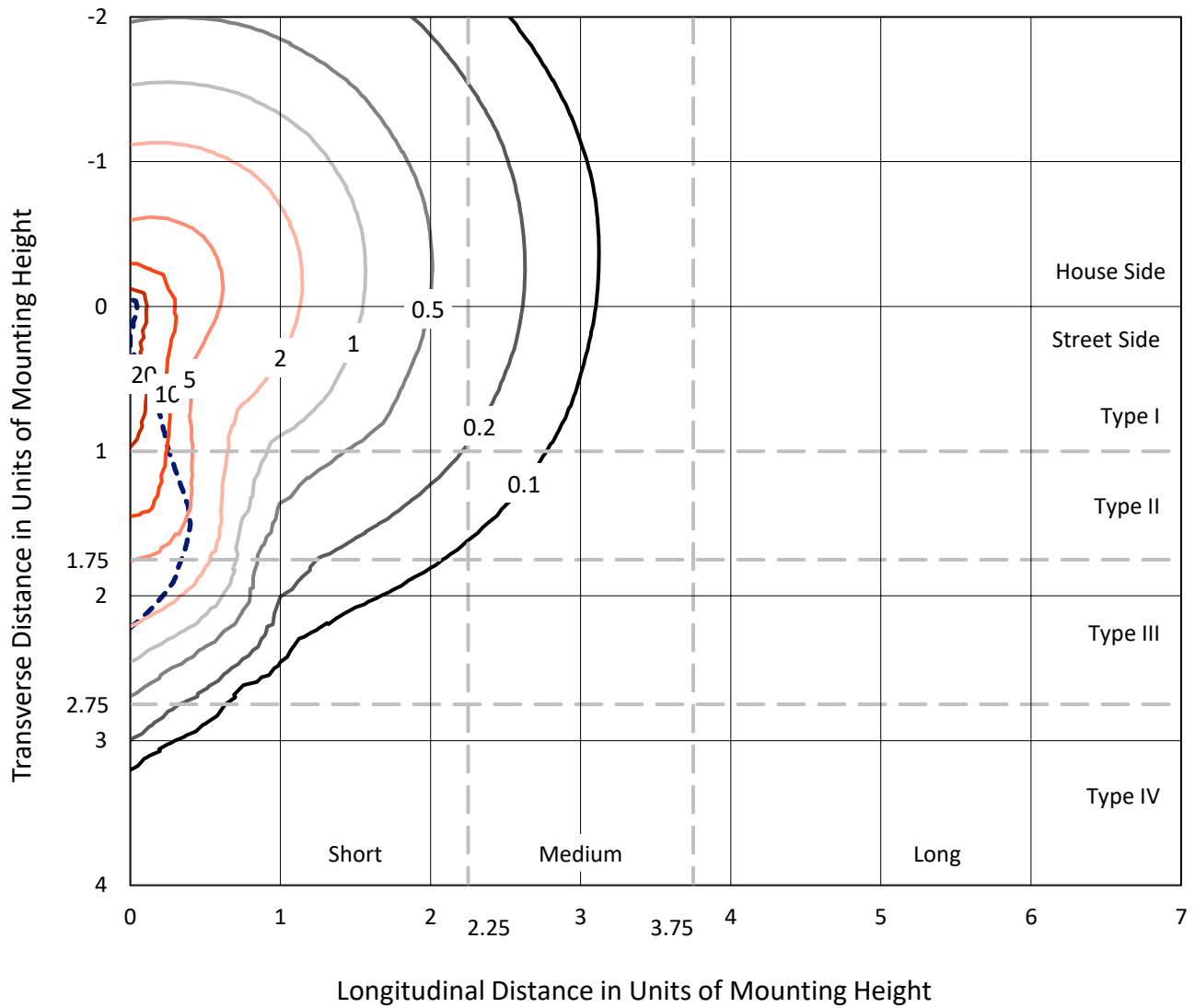
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

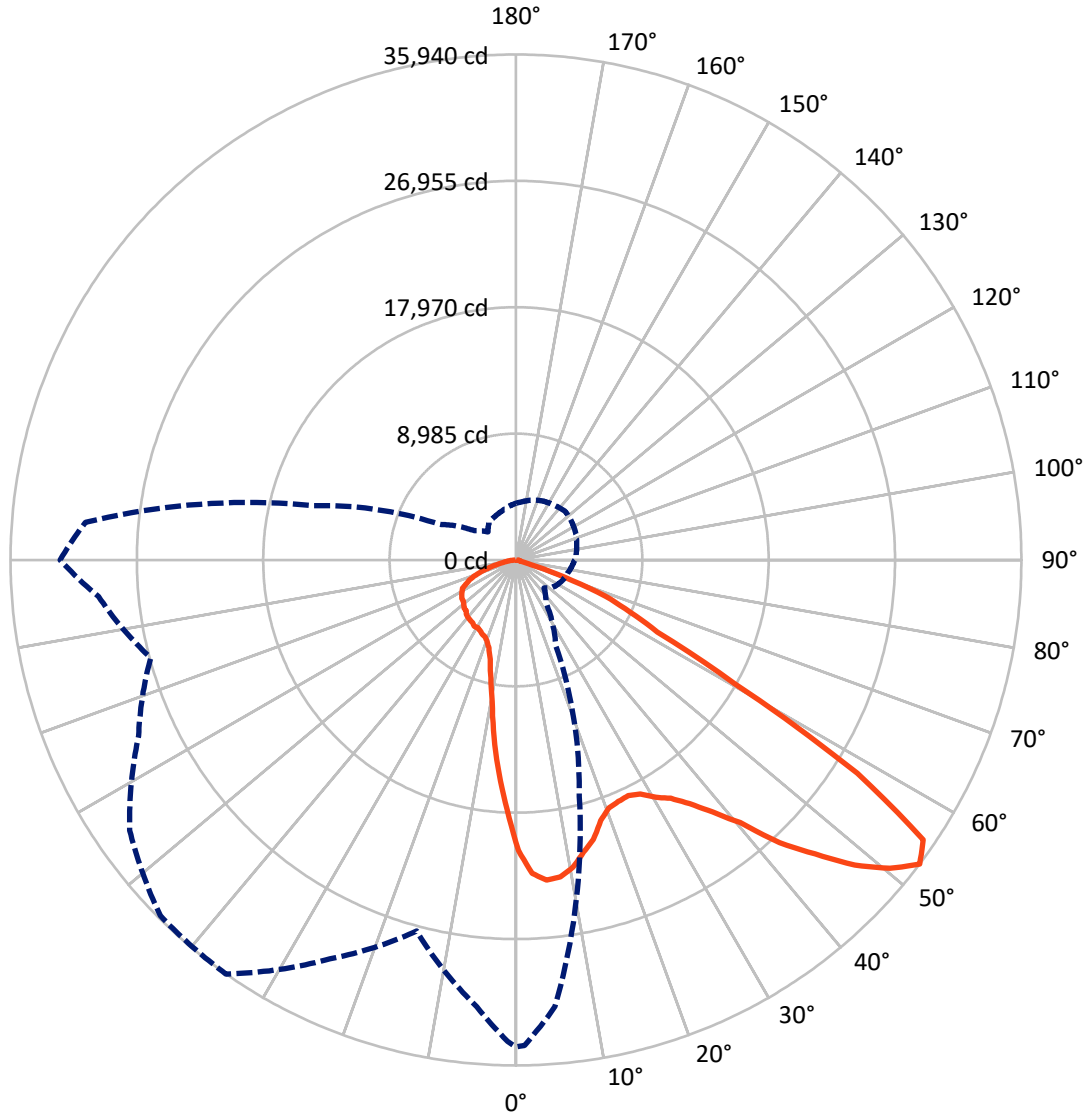
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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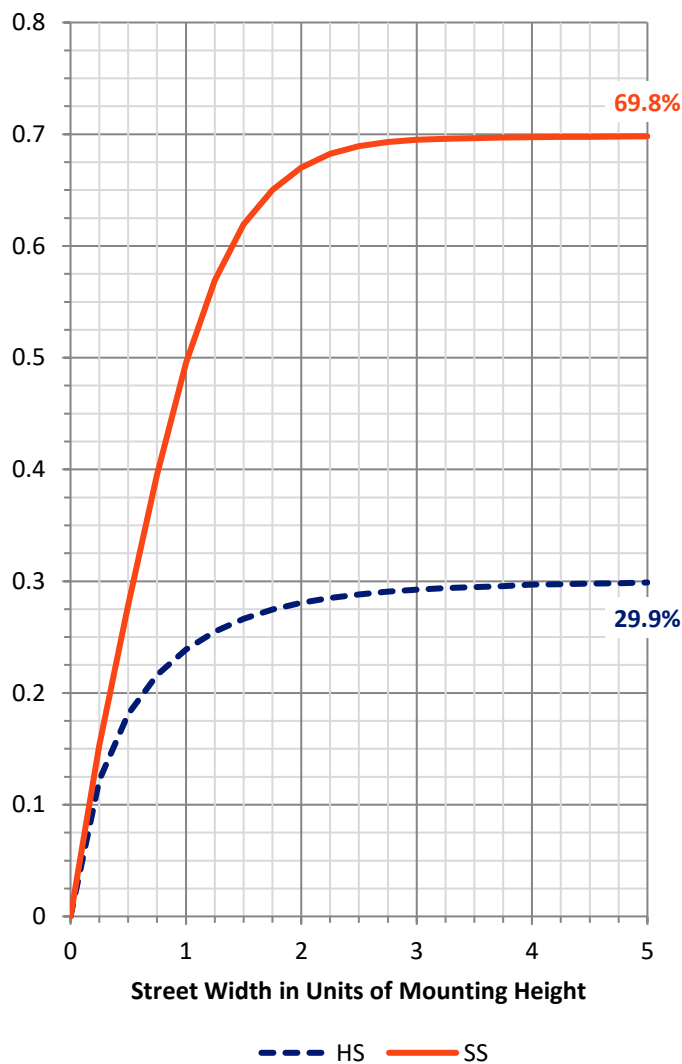
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14024.7	0.0	14024.7
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	32498.3	0.0	32498.3
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	46523.0	0.0	46523.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1575.2	3.4
10°-20°	3414.8	7.3
20°-30°	5159.5	11.1
30°-40°	7455.7	16.0
40°-50°	9922.2	21.3
50°-60°	11098.2	23.9
60°-70°	6254.9	13.4
70°-80°	1394.3	3.0
80°-90°	248.3	0.5
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°	46523.0	100.0
0°-180°	46523.0	100.0

**Coefficient of Utilization**



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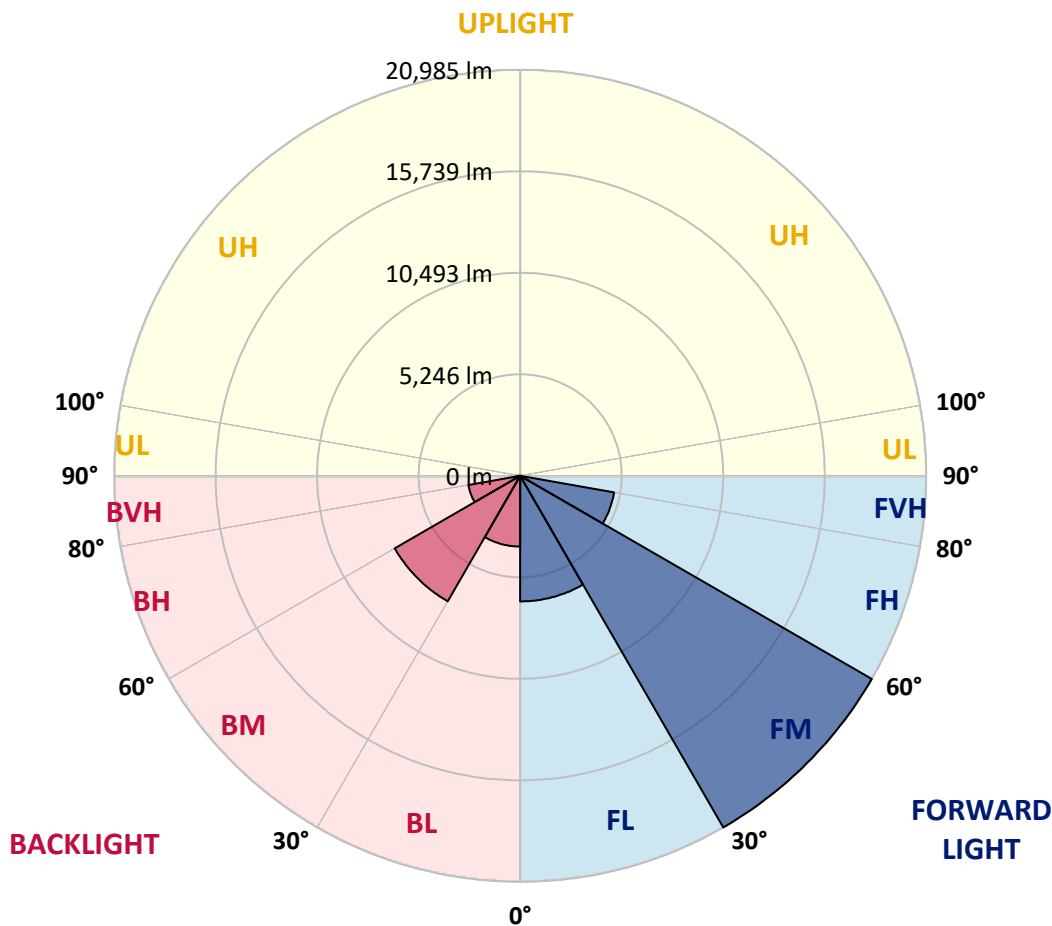
CATALOG NUMBER: GALN-SA8D-760-U-SLR-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6492.2	14.0			
FM (30°-60°)	20985.4	45.1			
FH (60°-80°)	4930.7	10.6			G2/5000
FVH (80°-90°)	89.9	0.2			G1/100
BL (0°-30°)	3657.3	7.9	B4/5000		
BM (30°-60°)	7490.6	16.1	B4/8500		
BH (60°-80°)	2718.4	5.8	B4/5000		G4/5000
BVH (80°-90°)	158.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2
2.5°	20991.1	21328.2	20964.1	20316.8	19858.3	19440.2	19001.9	18914.2	18341.1	18239.9	17821.9
5°	19797.6	19723.4	19278.4	18428.7	17491.4	16641.8	16014.7	15407.9	14996.5	14517.8	14484.1
7.5°	18347.8	17916.3	17660.0	16372.1	15212.3	13877.2	13304.0	12380.2	12090.3	11658.7	11436.2
10°	17053.2	16736.2	16136.1	14848.2	13229.8	12346.5	11732.9	11233.9	10896.8	10451.7	9892.0
12.5°	16412.6	16284.4	15610.1	13614.2	12413.9	11469.9	11038.4	10552.9	9979.7	9264.9	8988.5
15°	16527.2	16095.6	15583.2	13378.2	11719.4	10809.1	10121.3	9514.4	8779.4	8098.4	7700.6
17.5°	17383.6	17053.2	16028.2	13526.5	11456.4	10141.5	8894.1	7997.2	7336.4	6722.8	6446.3
20°	19069.3	18590.6	17437.5	13715.3	10890.0	9211.0	7781.5	6675.6	5967.6	5643.9	5549.5
22.5°	20937.1	20653.9	18813.1	14140.2	10438.2	8347.9	6601.4	5495.6	5232.6	5144.9	5320.3
25°	23209.5	22474.6	20950.6	14834.7	10087.6	7612.9	5603.5	4989.9	4855.0	4942.6	5144.9
27.5°	24935.8	24740.2	22447.6	15488.8	9608.8	6729.6	5043.8	4639.2	4679.7	4767.3	4956.1
30°	26985.7	25994.4	23897.3	15940.6	9177.3	6122.7	4652.7	4544.8	4585.3	4733.6	4828.0
32.5°	28219.6	27848.8	24807.7	16621.6	8678.3	5596.7	4349.3	4248.1	4308.8	4531.3	4753.8
35°	29790.8	29055.8	25933.7	16796.9	8327.7	5387.7	4133.5	4059.3	4200.9	4356.0	4605.5
37.5°	31624.9	31119.1	27491.4	16675.5	8138.9	5171.9	3951.4	3917.7	4018.9	4234.6	4524.6
40°	32710.5	32555.4	28307.3	16749.7	7842.2	4983.1	3742.4	3782.8	3991.9	4160.5	4443.7
42.5°	33755.7	32744.2	29514.3	16722.7	7653.4	4726.9	3762.6	3715.4	3877.2	4072.8	4342.5
45°	33984.9	32980.2	29797.5	16533.9	7424.1	4477.4	3607.5	3627.8	3823.3	4066.1	4241.4
47.5°	33836.6	33094.8	30323.5	16480.0	7208.3	4302.1	3378.3	3621.0	3735.6	3931.2	4180.7
50°	33735.4	33695.0	30768.5	16736.2	6918.4	4025.6	3101.8	3533.4	3648.0	3843.5	4113.3
52.5°	34625.5	34537.9	31881.1	17410.5	6689.1	3728.9	2818.6	3310.8	3587.3	3776.1	4039.1
55°	35165.0	34780.6	33789.4	18239.9	6304.7	3337.8	2623.0	3034.4	3439.0	3607.5	3877.2
57.5°	31631.6	31368.6	30566.2	17026.2	5657.4	2825.3	2380.3	2751.2	3236.7	3499.6	3776.1
60°	26318.1	25906.8	23850.1	14470.6	4173.9	2198.2	2231.9	2528.6	3182.7	3283.9	3607.5
62.5°	24814.4	23796.2	20997.8	11645.2	3202.9	1888.1	2002.7	2326.3	2899.5	3068.1	3391.7
65°	19689.7	18934.5	15023.5	8408.6	2144.3	1638.6	1827.4	2097.1	2501.7	2832.1	3128.8
67.5°	12326.3	11604.8	8017.5	3978.4	1497.0	1402.6	1631.8	1915.0	2245.4	2542.1	2872.5
70°	6439.6	5650.7	3701.9	1436.3	1031.7	1146.3	1362.1	1631.8	1955.5	2198.2	2454.5
72.5°	2400.5	1948.7	1207.0	620.4	714.8	876.6	1105.9	1301.4	1530.7	1827.4	1969.0
75°	370.9	316.9	310.2	377.6	485.5	633.8	788.9	984.5	1186.8	1375.6	1470.0
77.5°	175.3	168.6	188.8	249.5	323.7	451.8	573.2	762.0	923.8	1045.2	1099.1
80°	114.6	107.9	121.4	168.6	242.7	337.2	458.5	586.6	735.0	836.1	822.7
82.5°	67.4	74.2	74.2	114.6	168.6	242.7	330.4	445.0	546.2	633.8	579.9
85°	40.5	33.7	33.7	67.4	114.6	195.5	276.5	188.8	195.5	195.5	222.5
87.5°	13.5	13.5	13.5	6.7	13.5	13.5	20.2	33.7	40.5	47.2	60.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2
2.5°	17808.4	18017.4	17943.2	17680.3	17882.5	17916.3	17781.4	18246.7	18334.3	18192.7	18233.2
5°	14436.9	14490.8	14612.2	14868.4	15050.5	15266.2	15266.2	15279.7	15097.7	15556.2	15421.3
7.5°	11247.4	11281.1	11422.7	11968.9	12124.0	12535.3	12710.6	12589.3	12225.1	12070.0	12198.2
10°	9710.0	9514.4	9467.2	9534.7	9885.3	10060.6	10209.0	10168.5	10107.8	9986.4	9851.6
12.5°	8685.0	8543.4	8428.8	8267.0	8287.2	8455.8	8570.4	8476.0	8503.0	8529.9	8570.4
15°	7572.4	7471.3	7410.6	7167.9	7140.9	7255.5	7296.0	7349.9	7451.1	7457.8	7410.6
17.5°	6392.4	6304.7	6439.6	6574.5	6480.1	6486.8	6561.0	6608.2	6581.2	6459.8	6399.1
20°	5583.2	5677.6	5812.5	5940.6	6041.8	6102.5	6129.4	6055.3	5967.6	5718.1	5711.4
22.5°	5347.2	5468.6	5583.2	5778.8	5873.2	6028.3	5886.7	5718.1	5596.7	5475.3	5333.7
25°	5171.9	5273.1	5502.3	5576.5	5758.6	5886.7	5785.5	5617.0	5407.9	5232.6	5124.7
27.5°	5043.8	5158.4	5306.8	5509.1	5650.7	5724.8	5623.7	5556.3	5340.5	5131.5	4976.4
30°	4962.9	5084.3	5354.0	5522.6	5643.9	5704.6	5529.3	5448.4	5293.3	5118.0	4983.1
32.5°	4908.9	5016.8	5246.1	5461.9	5542.8	5542.8	5569.8	5475.3	5259.6	4962.9	4848.2
35°	4733.6	4882.0	5070.8	5320.3	5468.6	5556.3	5421.4	5313.5	5171.9	4868.5	4659.4
37.5°	4632.5	4733.6	4976.4	5212.4	5340.5	5434.9	5380.9	5192.1	5003.3	4753.8	4585.3
40°	4524.6	4686.4	4902.2	5124.7	5266.3	5360.7	5320.3	5097.7	4868.5	4632.5	4517.8
42.5°	4450.4	4558.3	4780.8	5030.3	5198.9	5380.9	5259.6	4983.1	4821.3	4497.6	4369.5
45°	4389.7	4565.0	4801.0	4902.2	5077.5	5266.3	5050.5	4882.0	4693.2	4457.2	4349.3
47.5°	4315.5	4477.4	4632.5	4902.2	4983.1	5070.8	5030.3	4760.6	4598.8	4342.5	4268.3
50°	4288.6	4349.3	4632.5	4780.8	4895.4	4983.1	4875.2	4672.9	4517.8	4254.9	4093.0
52.5°	4180.7	4295.3	4477.4	4672.9	4814.5	4922.4	4747.1	4619.0	4409.9	4133.5	4032.3
55°	4045.8	4113.3	4436.9	4639.2	4713.4	4787.6	4720.1	4511.1	4295.3	4012.1	3911.0
57.5°	3870.5	4025.6	4288.6	4571.8	4666.2	4706.6	4598.8	4430.2	4160.5	3911.0	3749.1
60°	3688.4	3850.3	4140.2	4369.5	4463.9	4612.2	4450.4	4349.3	4039.1	3762.6	3587.3
62.5°	3506.4	3688.4	3904.2	4194.2	4275.1	4335.8	4295.3	4153.7	3904.2	3594.0	3378.3
65°	3290.6	3425.5	3695.2	3843.5	3897.5	4039.1	3897.5	3843.5	3621.0	3324.3	3142.3
67.5°	2966.9	3081.6	3317.6	3459.2	3499.6	3560.3	3553.6	3492.9	3243.4	3041.1	2879.3
70°	2596.1	2697.2	2845.6	3014.1	3034.4	3108.5	3041.1	3027.6	2865.8	2589.3	2501.7
72.5°	2083.6	2178.0	2373.6	2447.7	2454.5	2481.4	2447.7	2400.5	2360.1	2070.1	1982.5
75°	1598.1	1652.0	1746.4	1813.9	1813.9	1847.6	1827.4	1780.2	1672.3	1490.2	1402.6
77.5°	1112.6	1166.5	1287.9	1328.4	1321.6	1335.1	1274.4	1227.2	1065.4	971.0	896.8
80°	809.2	842.9	903.6	930.5	937.3	957.5	883.3	842.9	748.5	640.6	606.9
82.5°	586.6	606.9	613.6	647.3	647.3	613.6	593.4	552.9	485.5	418.1	391.1
85°	242.7	249.5	256.2	296.7	303.4	364.1	337.2	316.9	276.5	236.0	215.8
87.5°	60.7	67.4	87.7	74.2	87.7	87.7	94.4	107.9	107.9	87.7	87.7
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°	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2
2.5°	18388.3	18442.2	19130.0	19217.7	19554.8	19898.7	20593.2	21092.2	21496.8	21759.8	21834.0
5°	15562.9	15906.8	16223.8	16736.2	17201.5	17862.3	18624.3	19568.3	20755.1	21362.0	21604.7
7.5°	12184.7	12589.3	13047.8	13546.8	14227.8	15414.6	16432.8	17525.2	19042.3	19669.5	20620.2
10°	9946.0	10397.8	11004.6	11389.0	12211.6	13344.5	14531.3	15792.2	17242.0	18145.5	19244.6
12.5°	8792.9	9163.8	9723.5	10532.6	11146.2	11881.2	12764.6	14355.9	16432.8	17289.2	18044.4
15°	7518.5	7929.8	8577.1	9474.0	10209.0	11085.6	12076.8	13809.7	16021.5	17343.1	17983.7
17.5°	6466.6	6763.3	7444.3	8219.8	9062.6	10020.2	11442.9	13782.8	16453.0	18145.5	19190.7
20°	5738.3	5778.8	6149.7	6810.5	7956.8	9204.3	11051.8	13647.9	17835.3	19527.8	20849.5
22.5°	5279.8	5239.3	5246.1	5805.8	6608.2	8401.8	10438.2	14106.4	19406.5	21726.1	22616.2
25°	5050.5	4942.6	4875.2	4996.6	5724.8	7451.1	9973.0	14713.3	21099.0	23540.0	24632.3
27.5°	4929.2	4740.4	4605.5	4625.7	5158.4	6972.3	9683.0	14976.3	22778.0	26068.6	26453.0
30°	4882.0	4646.0	4450.4	4383.0	4733.6	6304.7	9062.6	15428.1	24281.7	27457.7	27788.1
32.5°	4713.4	4423.4	4234.6	4173.9	4315.5	5718.1	8617.6	15751.7	25610.1	28968.1	28853.5
35°	4517.8	4275.1	4039.1	3924.5	4025.6	5340.5	8260.2	15596.7	27174.5	30141.4	30080.7
37.5°	4497.6	4180.7	3985.1	3796.3	3789.6	4875.2	7774.7	15745.0	28172.4	32245.2	31415.8
40°	4322.3	4120.0	3863.8	3708.7	3621.0	4639.2	7302.7	15394.4	29635.7	33094.8	32278.9
42.5°	4329.0	4025.6	3803.1	3621.0	3533.4	4295.3	6979.0	15300.0	30148.1	34477.2	32683.5
45°	4221.1	3924.5	3735.6	3519.9	3472.7	4032.3	6668.9	14861.7	31051.7	34544.6	32177.8
47.5°	4113.3	3850.3	3648.0	3391.7	3283.9	3937.9	6426.1	14497.5	30579.7	33910.8	31476.5
50°	4039.1	3735.6	3546.8	3364.8	3061.3	3776.1	6109.2	14409.9	29918.9	33054.4	30175.1
52.5°	3911.0	3641.2	3445.7	3304.1	2818.6	3627.8	5987.8	14922.4	30728.0	32413.8	29797.5
55°	3789.6	3513.1	3263.6	2987.2	2616.3	3236.7	5650.7	15401.1	31908.1	33890.5	31510.2
57.5°	3661.5	3398.5	3128.8	2798.4	2420.8	2832.1	5300.0	15488.8	29696.4	31321.4	29912.1
60°	3492.9	3155.7	2953.5	2521.9	2211.7	2346.6	4200.9	13654.7	23034.2	26156.3	26203.5
62.5°	3304.1	2940.0	2764.6	2258.9	1995.9	2022.9	3425.5	11476.7	18685.0	21651.9	22939.8
65°	3054.6	2704.0	2494.9	2090.3	1840.9	1753.2	2508.4	8408.6	14194.1	17565.6	19028.9
67.5°	2730.9	2400.5	2137.5	1820.6	1645.3	1503.7	1712.7	4733.6	8381.6	11793.6	12238.6
70°	2387.0	2103.8	1827.4	1564.4	1368.8	1267.7	1254.2	2097.1	4005.4	6345.2	7221.8
72.5°	1881.3	1679.0	1456.5	1260.9	1132.8	984.5	896.8	869.9	1355.4	2582.6	3567.1
75°	1348.6	1180.0	1051.9	923.8	829.4	748.5	681.0	620.4	566.4	647.3	890.1
77.5°	849.6	788.9	687.8	654.1	600.1	579.9	552.9	519.2	478.8	451.8	451.8
80°	573.2	532.7	499.0	492.2	472.0	465.3	472.0	438.3	397.8	364.1	377.6
82.5°	384.4	377.6	370.9	364.1	370.9	377.6	391.1	384.4	350.6	330.4	337.2
85°	229.3	242.7	256.2	269.7	296.7	263.0	215.8	182.1	161.8	148.3	141.6
87.5°	87.7	121.4	107.9	101.1	107.9	101.1	94.4	87.7	74.2	67.4	67.4
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: P533438

CATALOG NUMBER: GALN-SA8D-760-U-SLR-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2	20647.2
2.5°	22326.2	22461.1	22575.7	22548.7	22312.7	21995.8	21867.7	21213.6	21078.7	20991.1
5°	22629.6	23411.8	23580.4	23479.3	22865.7	22090.2	21335.0	20377.5	19817.8	19797.6
7.5°	22070.0	23034.2	23337.7	23566.9	22751.0	21402.4	20107.8	18671.5	18320.8	18347.8
10°	20647.2	22184.6	22933.1	23169.1	22231.8	21065.3	19271.6	17815.1	17066.6	17053.2
12.5°	19858.3	21065.3	21274.3	21604.7	21328.2	20148.2	18786.1	17154.3	16426.0	16412.6
15°	19157.0	19952.7	20013.3	20478.6	20627.0	19831.3	18914.2	17174.5	16587.9	16527.2
17.5°	19770.6	19217.7	18988.4	19049.1	19487.4	19777.3	19656.0	18320.8	17720.7	17383.6
20°	20181.9	18947.9	18253.4	18320.8	18840.1	19898.7	20761.8	19979.6	19028.9	19069.3
22.5°	21281.0	18988.4	17902.8	17828.6	18651.3	20532.6	22009.3	22076.7	21159.7	20937.1
25°	22926.3	19453.7	17794.9	17774.7	18563.6	21213.6	23465.8	24558.2	23620.9	23209.5
27.5°	24248.0	20181.9	18132.0	18199.5	18840.1	21766.5	24706.5	26156.3	25441.5	24935.8
30°	25407.8	20937.1	18604.1	18293.9	19581.8	22056.5	25239.2	27976.9	27403.7	26985.7
32.5°	25886.5	22009.3	19352.5	18840.1	20195.4	22407.1	26345.1	29743.6	29251.3	28219.6
35°	26695.7	22609.4	19757.1	19716.7	21267.6	23250.0	26864.3	30910.1	30707.8	29790.8
37.5°	27343.0	23216.3	21193.4	20748.3	22737.5	24666.0	27700.4	32521.7	32056.4	31624.9
40°	27842.0	24301.9	22535.2	23121.9	24544.7	25954.0	28469.1	32622.8	33964.7	32710.5
42.5°	27383.5	25272.9	24740.2	26142.8	27491.4	27424.0	28556.8	33405.0	34409.7	33755.7
45°	27268.9	26918.2	28226.4	29500.8	29811.0	28644.4	27929.7	32541.9	34274.9	33984.9
47.5°	26992.4	28536.6	30815.7	32892.6	32420.5	29460.3	27181.2	32386.8	34355.8	33836.6
50°	26898.0	28887.2	32730.7	34753.6	34470.4	30168.4	26830.6	31388.9	33782.6	33735.4
52.5°	26891.2	29608.7	33526.4	35765.1	35940.4	31287.7	27309.3	31894.6	34227.7	34625.5
55°	27194.7	29379.4	33425.3	35205.4	35138.0	30788.7	27363.3	32231.7	34773.9	35165.0
57.5°	25650.5	26318.1	27585.8	28995.1	28631.0	25502.2	24436.8	29797.5	31914.8	31631.6
60°	22150.9	20060.5	18631.0	18563.6	17855.6	16877.8	19999.9	26594.6	26594.6	26318.1
62.5°	19399.7	13169.2	11314.8	10788.9	11294.6	12420.7	19291.8	25866.3	25131.3	24814.4
65°	16965.5	10053.9	8179.3	8031.0	8907.6	10606.8	17444.2	22036.3	20741.6	19689.7
67.5°	10917.0	7363.4	6082.2	5819.2	6877.9	7788.2	11611.5	13553.5	12737.6	12326.3
70°	7039.7	4794.3	3385.0	3176.0	3587.3	4801.0	7417.3	7902.8	6716.1	6439.6
72.5°	3331.1	2070.1	1186.8	977.7	1099.1	1834.1	2933.2	3155.7	2623.0	2400.5
75°	1058.7	762.0	485.5	418.1	397.8	472.0	674.3	519.2	377.6	370.9
77.5°	472.0	451.8	384.4	323.7	283.2	236.0	195.5	161.8	168.6	175.3
80°	391.1	357.4	316.9	283.2	236.0	182.1	141.6	107.9	107.9	114.6
82.5°	343.9	310.2	276.5	236.0	202.3	148.3	107.9	74.2	67.4	67.4
85°	148.3	175.3	188.8	202.3	161.8	121.4	74.2	47.2	40.5	40.5
87.5°	60.7	53.9	47.2	40.5	33.7	33.7	27.0	20.2	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)