

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: P456584

Luminaire Tested: **GALN-SA7D-760-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456584  
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-SA7D-760-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38696 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

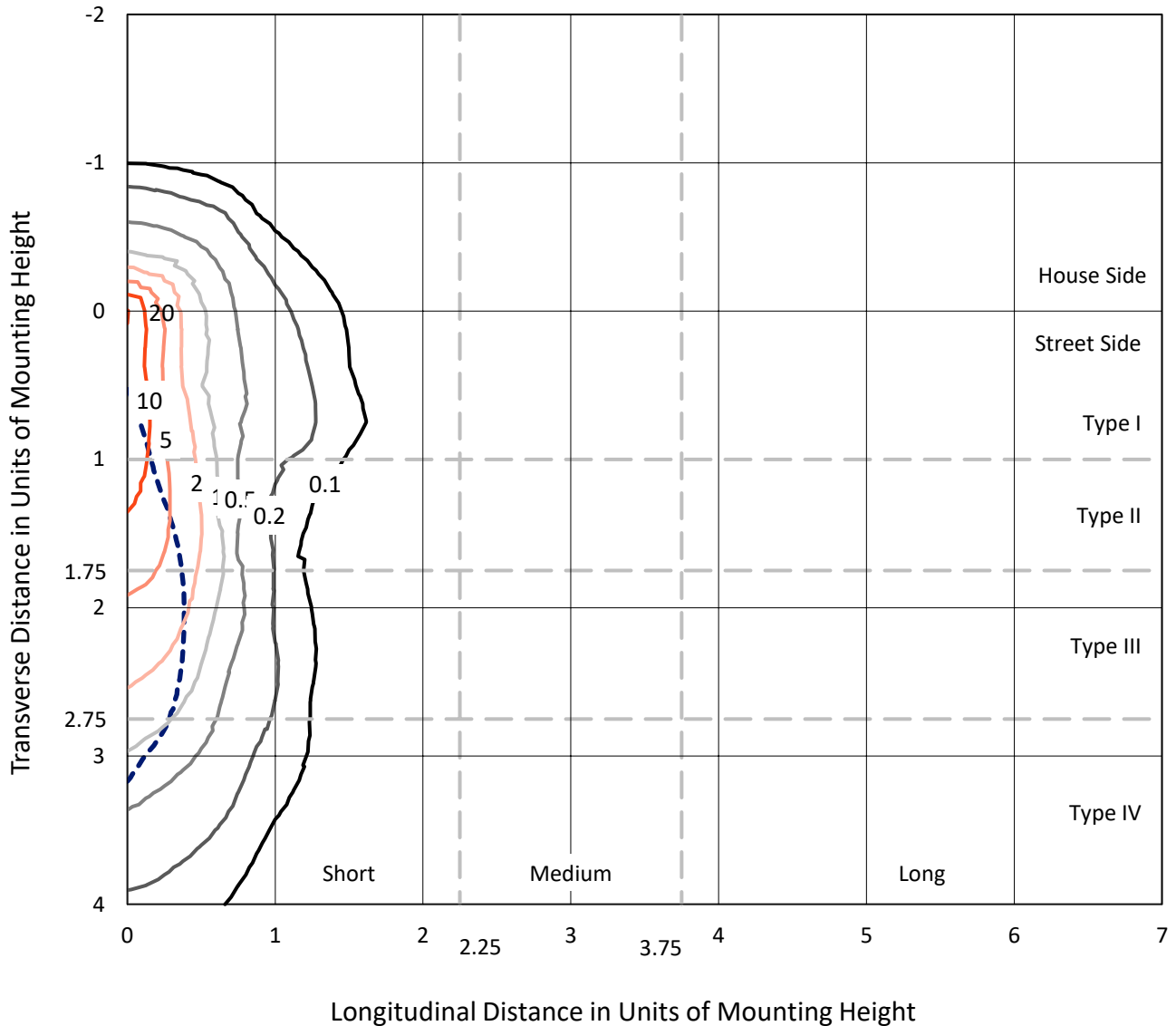
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

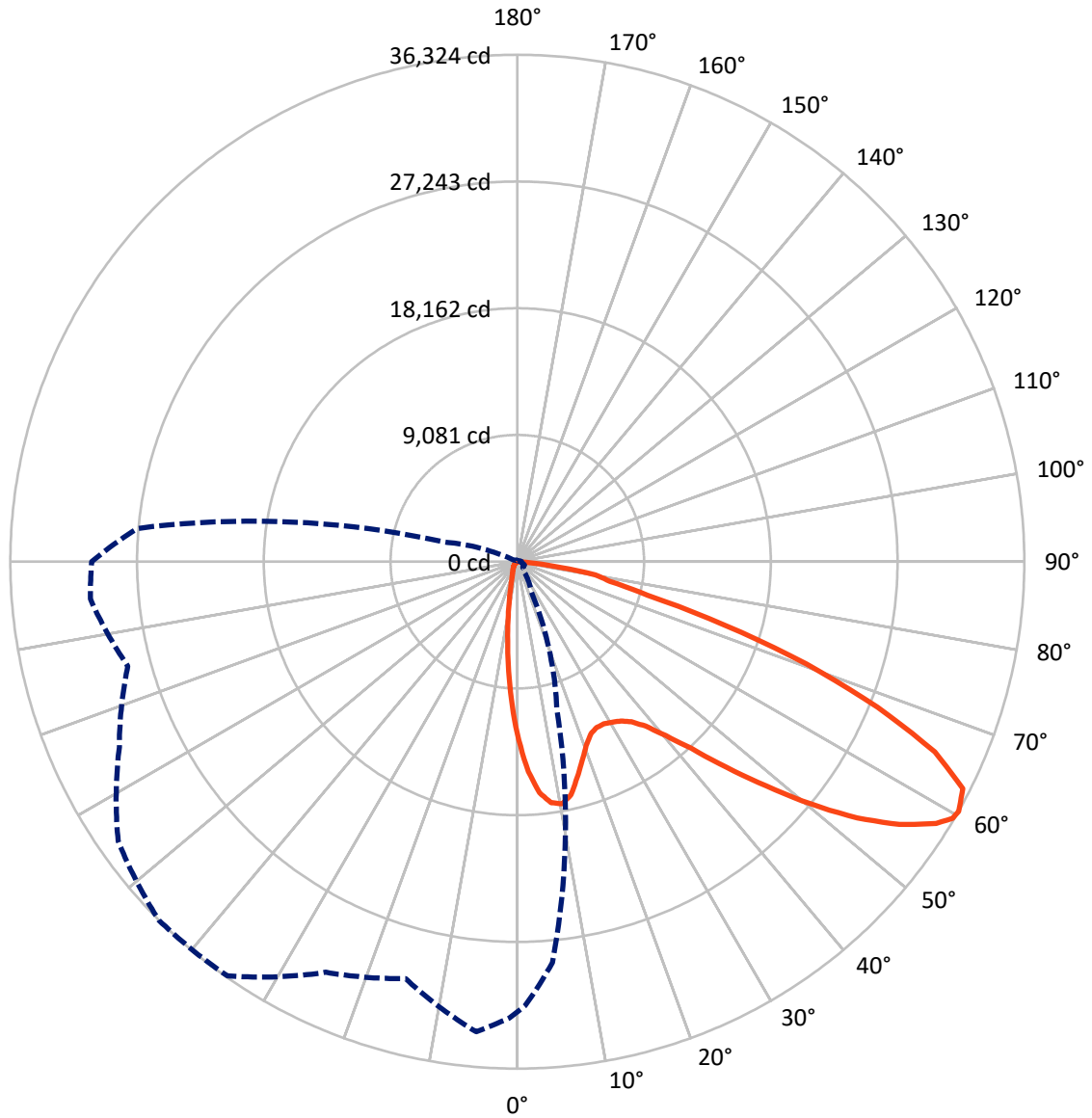
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 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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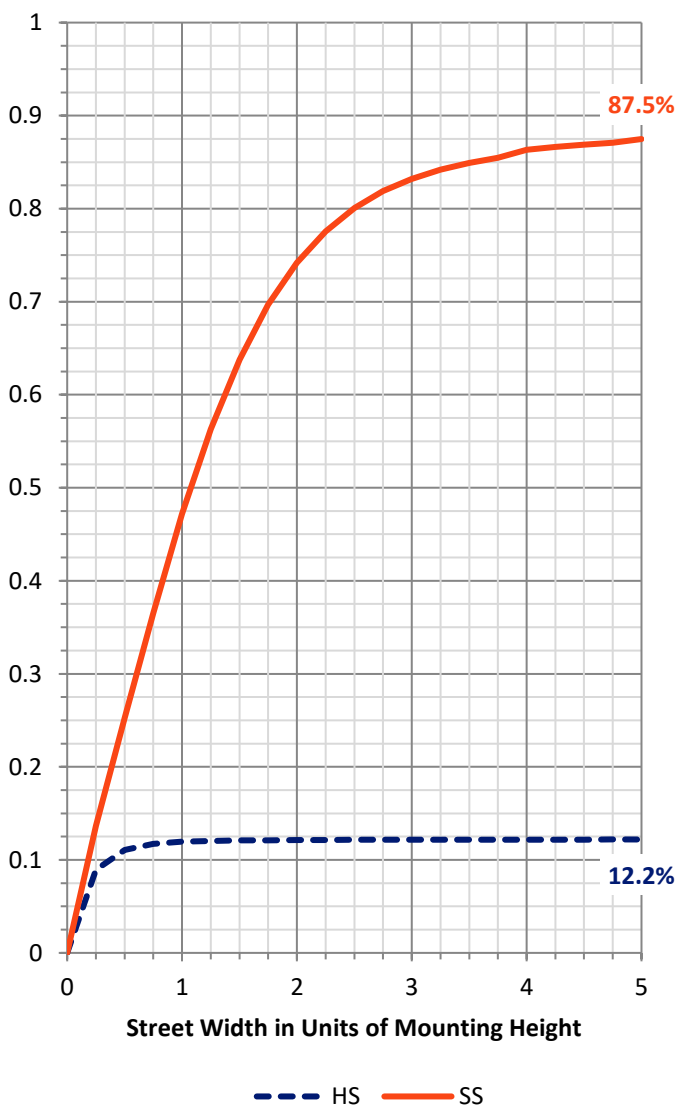
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4772.8	0.0	4772.8
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	33923.2	0.0	33923.2
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	38696.0	0.0	38696.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	951.2	2.5
10°-20°	1889.2	4.9
20°-30°	2770.1	7.2
30°-40°	4119.5	10.6
40°-50°	5995.2	15.5
50°-60°	8645.6	22.3
60°-70°	9509.2	24.6
70°-80°	4259.4	11.0
80°-90°	556.6	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°	38696.0	100.0
0°-180°	38696.0	100.0



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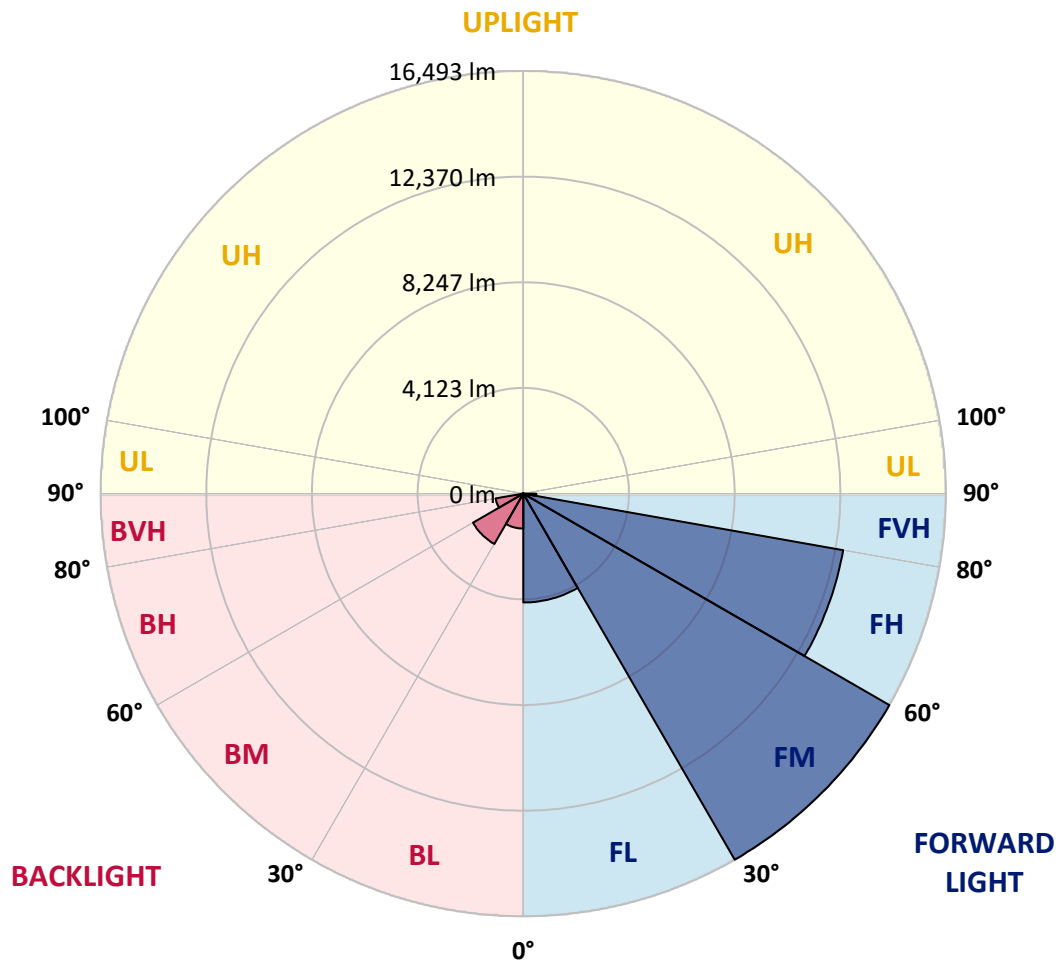
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4246.7	11.0			
FM	(30°-60°)	16493.4	42.6			
FH	(60°-80°)	12674.1	32.8			G5
FVH	(80°-90°)	509.0	1.3			G4/750
BL	(0°-30°)	1363.7	3.5	B3/2500		
BM	(30°-60°)	2266.9	5.9	B2/2500		
BH	(60°-80°)	1094.5	2.8	B3/2500		G3/2500
BVH	(80°-90°)	47.6	0.1			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6
2.5°	14060.3	13998.5	13857.3	13427.9	13054.3	12566.0	12071.9	11683.6	11445.3	11007.0	10807.0
5°	13622.0	13651.4	13242.6	12360.1	11377.7	10707.0	9974.6	9392.2	8750.9	8345.0	7918.5
7.5°	12477.8	12419.0	11974.8	10745.2	9551.0	8580.3	7653.7	6900.7	6427.1	6047.7	5730.0
10°	11498.3	11454.1	10886.4	9303.9	8021.4	7294.9	6668.3	6009.5	5500.6	4944.6	4500.5
12.5°	10883.5	10783.5	10130.5	8477.4	7433.1	6756.6	6074.2	5388.8	4685.8	4124.0	3585.7
15°	10677.6	10533.5	9806.9	8192.0	7056.6	6197.7	5341.7	4553.4	3744.5	3123.9	2717.9
17.5°	11051.2	10812.9	10039.3	8142.0	6606.6	5468.2	4415.2	3388.6	2547.3	2073.7	1823.7
20°	11907.1	11633.6	10627.6	8092.0	6106.5	4650.5	3356.2	2394.4	1762.0	1503.1	1364.8
22.5°	13177.9	12801.3	11498.3	8171.4	5644.7	3853.3	2423.8	1691.4	1400.1	1238.4	1141.3
25°	14704.5	14389.7	12601.3	8453.8	5280.0	3226.8	1873.7	1382.5	1179.5	1079.5	1006.0
27.5°	16378.2	15875.2	14027.9	8792.1	4947.6	2741.5	1644.3	1235.4	1050.1	958.9	920.7
30°	17569.5	17178.3	15222.2	9027.4	4532.8	2376.7	1503.1	1217.8	1053.1	944.2	873.6
32.5°	18746.1	18246.0	16222.3	9136.3	4229.9	2123.8	1300.1	1061.9	923.6	867.7	797.1
35°	20005.0	19481.5	17219.5	9077.4	4003.4	1956.1	1179.5	947.2	791.3	697.1	626.5
37.5°	21278.7	20725.7	18210.7	8865.6	3862.2	1888.4	1085.4	900.1	747.1	650.1	573.6
40°	22790.6	22052.3	19140.2	8692.1	3715.1	1853.1	1023.6	870.7	714.8	611.8	535.4
42.5°	24026.1	23323.0	20019.8	8600.9	3615.1	1770.8	1023.6	847.1	694.2	579.5	500.1
45°	25196.8	24467.3	20969.9	8674.4	3573.9	1667.8	1035.4	844.2	679.5	555.9	476.5
47.5°	26176.3	25543.9	21946.4	8950.9	3521.0	1556.0	973.6	885.4	670.7	535.4	453.0
50°	27332.3	26720.5	23237.7	9509.8	3426.8	1444.3	897.2	953.0	667.7	517.7	432.4
52.5°	28961.9	28300.0	25020.3	10145.2	3276.8	1273.7	826.6	944.2	656.0	488.3	411.8
55°	30953.3	30417.9	27085.2	10907.0	3070.9	1082.5	714.8	838.3	620.7	438.3	376.5
57.5°	32229.9	31773.9	28632.4	11236.5	2756.2	885.4	629.5	703.0	567.7	391.2	335.3
59°	32379.9	31968.1	28956.0	11127.6	2550.3	808.9	588.3	603.0	553.0	364.7	311.8
60°	32253.4	31826.9	28826.6	10915.9	2359.1	756.0	553.0	535.4	555.9	350.0	294.1
62.5°	31441.5	30712.1	27570.5	9842.2	2062.0	694.2	491.2	438.3	491.2	314.7	261.8
65°	29873.7	28779.5	25085.0	8330.3	1944.3	658.9	417.7	367.7	373.6	276.5	226.5
67.5°	27135.2	25755.7	21775.8	6768.4	1894.3	661.8	353.0	329.4	288.3	235.3	200.0
70°	22805.3	21428.7	17472.4	5568.2	1870.8	661.8	300.0	282.4	241.2	197.1	173.5
72.5°	16160.5	14678.0	11786.5	4374.0	1685.5	658.9	255.9	255.9	197.1	164.7	141.2
75°	9130.4	9142.1	7409.6	3094.4	1400.1	544.2	205.9	203.0	144.1	126.5	105.9
77.5°	5321.1	5227.0	4994.6	1329.6	650.1	247.1	144.1	123.5	100.0	91.2	76.5
80°	2735.6	2250.2	2191.4	482.4	232.4	155.9	100.0	70.6	64.7	58.8	52.9
82.5°	808.9	811.9	723.6	194.1	129.4	103.0	50.0	38.2	35.3	32.4	32.4
85°	55.9	35.3	41.2	58.8	79.4	41.2	2.9	8.8	8.8	11.8	14.7
87.5°	5.9	2.9	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°	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6
2.5°	10586.4	10715.8	10474.6	10480.5	10280.5	10345.2	10109.9	10186.4	10048.1	10154.0	10465.8
5°	7965.5	7995.0	7800.8	7739.0	7768.5	7889.1	7936.1	7721.4	7812.6	7633.2	7621.4
7.5°	5612.4	5647.7	5535.9	5521.2	5733.0	5683.0	5774.1	5553.5	5344.7	5435.9	5268.2
10°	4359.3	4212.2	3982.8	3918.1	3876.9	3903.4	3903.4	3703.3	3673.9	3594.5	3715.1
12.5°	3441.5	3262.1	3044.4	2750.3	2676.8	2670.9	2562.0	2385.5	2329.7	2262.0	2362.0
15°	2500.3	2426.7	2244.4	2079.6	1912.0	1879.6	1703.1	1559.0	1367.8	1341.3	1332.5
17.5°	1759.0	1650.2	1647.2	1553.1	1456.0	1391.3	1226.6	1061.9	988.3	979.5	979.5
20°	1317.8	1279.5	1217.8	1206.0	1176.6	1103.1	956.0	867.7	832.4	835.4	847.1
22.5°	1108.9	1082.5	1026.6	1000.1	988.3	923.6	814.8	756.0	738.3	738.3	741.3
25°	991.3	967.7	906.0	864.8	850.1	803.0	717.7	673.6	658.9	658.9	658.9
27.5°	903.0	873.6	808.9	773.6	747.1	694.2	641.2	597.1	582.4	582.4	585.4
30°	841.3	808.9	750.1	703.0	661.8	614.8	570.6	532.4	514.8	511.8	514.8
32.5°	758.9	729.5	670.7	641.2	594.2	538.3	503.0	467.7	450.0	453.0	450.0
35°	591.2	582.4	541.2	550.1	523.6	476.5	444.2	405.9	385.3	382.4	388.3
37.5°	538.3	503.0	455.9	458.9	450.0	432.4	379.5	338.3	323.6	323.6	326.5
40°	497.1	461.8	408.9	382.4	385.3	385.3	329.4	285.3	270.6	267.7	273.6
42.5°	461.8	426.5	367.7	323.6	311.8	326.5	279.4	235.3	220.6	214.7	220.6
45°	438.3	400.0	332.4	282.4	247.1	264.7	229.4	194.1	176.5	176.5	173.5
47.5°	414.7	379.5	305.9	244.1	205.9	197.1	188.3	155.9	138.2	135.3	138.2
50°	394.2	358.9	276.5	211.8	173.5	153.0	153.0	123.5	111.8	105.9	108.8
52.5°	373.6	335.3	250.0	188.3	150.0	123.5	108.8	100.0	91.2	88.2	91.2
55°	344.2	305.9	223.6	161.8	129.4	103.0	85.3	82.4	76.5	70.6	76.5
57.5°	308.9	273.6	197.1	138.2	103.0	79.4	70.6	67.7	61.8	58.8	58.8
59°	288.3	255.9	182.4	120.6	91.2	70.6	64.7	61.8	55.9	50.0	52.9
60°	276.5	250.0	173.5	111.8	82.4	64.7	58.8	55.9	50.0	47.1	50.0
62.5°	244.1	223.6	153.0	91.2	64.7	47.1	41.2	44.1	41.2	38.2	41.2
65°	214.7	197.1	129.4	70.6	50.0	32.4	29.4	38.2	35.3	32.4	35.3
67.5°	191.2	170.6	108.8	52.9	35.3	17.6	20.6	32.4	32.4	29.4	32.4
70°	164.7	147.1	88.2	38.2	17.6	8.8	14.7	23.5	29.4	26.5	29.4
72.5°	135.3	114.7	67.7	26.5	8.8	0.0	8.8	20.6	29.4	26.5	29.4
75°	105.9	85.3	50.0	14.7	0.0	0.0	2.9	17.6	29.4	26.5	29.4
77.5°	76.5	61.8	29.4	2.9	0.0	0.0	2.9	17.6	29.4	26.5	29.4
80°	50.0	44.1	11.8	0.0	0.0	0.0	2.9	17.6	29.4	29.4	32.4
82.5°	32.4	23.5	0.0	0.0	0.0	0.0	5.9	23.5	32.4	35.3	35.3
85°	14.7	0.0	0.0	0.0	0.0	0.0	11.8	29.4	38.2	38.2	38.2
87.5°	0.0	0.0	0.0	0.0	0.0	5.9	20.6	35.3	44.1	44.1	44.1
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°	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6
2.5°	10518.8	10704.1	10965.9	11368.8	11695.3	12210.1	12604.3	13142.6	13686.7	13851.5	14107.4
5°	7742.0	7980.3	8574.4	9115.7	9456.9	10545.2	11233.5	12318.9	13292.6	13760.3	14269.1
7.5°	5377.0	5659.4	6112.4	6868.4	7586.1	8471.5	9583.4	10824.7	12251.3	12919.0	13636.7
10°	3773.9	4126.9	4765.2	5385.9	6288.9	7130.2	8227.3	9598.1	11171.8	11960.1	12860.2
12.5°	2382.6	2697.3	3541.5	4238.7	5365.3	6341.8	7353.7	8595.0	10418.7	11227.7	12171.9
15°	1361.9	1626.6	2020.8	2915.0	4165.1	5456.5	6718.4	8159.7	10033.4	11030.6	12051.3
17.5°	1014.8	1085.4	1261.9	1767.8	2906.2	4415.2	6133.0	8027.3	10295.2	11465.9	12630.7
20°	853.0	900.1	982.5	1182.5	1853.1	3400.4	5562.4	8050.8	11142.3	12613.1	13719.1
22.5°	764.8	794.2	861.9	991.3	1264.8	2476.7	4894.6	8189.1	12168.9	14022.1	15298.7
25°	670.7	708.9	767.7	879.5	1053.1	1717.8	4235.7	8498.0	13607.3	15810.5	17010.6
27.5°	597.1	632.4	691.2	794.2	923.6	1311.9	3468.0	8762.7	15125.1	17610.7	18593.1
30°	523.6	558.9	617.7	700.1	817.7	1061.9	2641.5	8918.6	16598.8	18960.8	19716.8
32.5°	461.8	491.2	547.1	620.7	717.7	900.1	2082.6	8756.8	17725.4	20187.4	20693.4
35°	400.0	435.3	482.4	550.1	635.4	767.7	1732.5	8197.9	18693.1	21449.3	21631.7
37.5°	335.3	376.5	426.5	488.3	555.9	706.0	1391.3	7580.2	19728.5	23023.0	22723.0
40°	282.4	320.6	367.7	435.3	497.1	647.1	1070.7	6921.3	20846.3	24499.6	23914.3
42.5°	229.4	270.6	326.5	388.3	491.2	564.8	829.5	6238.9	21849.4	25785.1	24990.9
45°	182.4	217.7	276.5	355.9	488.3	485.3	641.2	5565.3	22605.3	26702.8	25793.9
47.5°	144.1	173.5	232.4	347.1	450.0	411.8	514.8	5147.6	23399.5	27529.4	26408.7
50°	114.7	144.1	200.0	361.8	394.2	353.0	432.4	5215.3	24167.2	27950.0	26661.6
52.5°	97.1	126.5	173.5	285.3	303.0	308.9	379.5	5527.1	25158.5	28400.0	27164.6
55°	85.3	111.8	147.1	200.0	235.3	276.5	347.1	5753.5	26485.1	29364.9	28273.6
57.5°	67.7	97.1	132.4	170.6	194.1	241.2	320.6	5771.2	27685.3	30603.2	29747.2
59°	61.8	88.2	123.5	161.8	173.5	217.7	303.0	5621.2	27729.4	30788.5	30423.8
60°	55.9	85.3	117.7	150.0	164.7	205.9	288.3	5447.6	27329.3	30494.4	30703.2
62.5°	47.1	73.5	103.0	120.6	141.2	170.6	250.0	4818.2	25390.9	29161.9	30185.5
65°	41.2	64.7	88.2	100.0	117.7	147.1	220.6	3856.3	23249.5	27355.8	28703.0
67.5°	38.2	58.8	76.5	85.3	103.0	135.3	197.1	2723.8	20475.7	25064.4	26476.3
70°	35.3	55.9	67.7	79.4	91.2	114.7	167.7	1588.4	15772.2	21046.3	22537.7
72.5°	35.3	52.9	58.8	67.7	79.4	103.0	155.9	858.9	10783.5	16054.6	17981.3
75°	35.3	50.0	52.9	58.8	70.6	94.1	138.2	450.0	6971.3	11154.1	13766.2
77.5°	35.3	47.1	52.9	55.9	67.7	82.4	120.6	282.4	4644.6	7812.6	9303.9
80°	38.2	47.1	50.0	55.9	64.7	76.5	100.0	188.3	2729.7	4700.5	5662.4
82.5°	41.2	47.1	52.9	58.8	67.7	73.5	88.2	117.7	1259.0	3109.2	3518.0
85°	44.1	50.0	55.9	61.8	70.6	73.5	82.4	85.3	205.9	1403.1	1897.3
87.5°	47.1	52.9	58.8	64.7	76.5	76.5	76.5	76.5	70.6	150.0	382.4
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: P456584

CATALOG NUMBER: GALN-SA7D-760-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6	12789.6
2.5°	14430.9	14763.3	14995.7	15054.5	14886.9	14810.4	14598.6	14269.1	14069.1	14060.3
5°	15207.5	15987.0	16528.2	16619.4	16295.8	15748.7	15098.6	14260.3	13769.1	13622.0
7.5°	15075.1	16440.0	17310.6	17437.1	16893.0	15848.7	14589.8	13239.6	12704.3	12477.8
10°	14530.9	16195.8	17440.1	17640.1	16913.5	15442.8	13842.6	12336.6	11671.8	11498.3
12.5°	14066.2	15748.7	16854.7	17131.2	16581.2	15113.4	13395.5	11757.1	11045.3	10883.5
15°	13863.2	15219.2	15895.8	16037.0	15945.8	14907.5	13348.5	11668.9	10854.1	10677.6
17.5°	14066.2	14769.2	14854.5	14998.6	15201.6	14886.9	13801.5	12148.3	11268.8	11051.2
20°	14598.6	14378.0	14025.0	14086.8	14551.5	14972.2	14607.4	13210.2	12139.5	11907.1
22.5°	15504.6	14280.9	13480.8	13427.9	14016.2	15257.5	15789.9	14648.6	13407.3	13177.9
25°	16616.5	14525.1	13280.8	13166.1	13807.3	15675.2	17075.3	16410.6	15054.5	14704.5
27.5°	17828.3	15031.0	13280.8	13169.0	13789.7	16045.8	18175.4	17969.5	16760.6	16378.2
30°	18493.1	15448.7	13472.0	13345.5	14007.4	16260.5	18763.7	19355.0	18043.1	17569.5
32.5°	19087.3	16028.2	13845.6	13607.3	14463.3	16578.2	19290.3	20531.6	19063.8	18746.1
35°	19634.4	16648.8	14360.3	14083.8	15063.3	17013.6	19872.7	21767.0	20484.5	20005.0
37.5°	20237.4	17369.5	15163.4	14928.0	16066.4	17860.7	20563.9	23390.7	21881.7	21278.7
40°	20893.4	18204.9	16484.1	16384.1	17660.7	18819.6	21437.5	25123.2	23476.0	22790.6
42.5°	21561.1	19166.7	18101.9	18266.6	19466.8	20163.9	22334.7	26455.7	24782.0	24026.1
45°	22167.0	20396.3	20205.1	21019.9	21572.9	21475.8	22999.5	27394.1	25920.4	25196.8
47.5°	22931.8	22187.6	22749.5	24005.5	24020.2	22902.4	23502.5	28161.8	26899.9	26176.3
50°	23787.8	24302.6	26035.1	27314.6	26970.5	24305.5	24090.8	29070.7	27911.8	27332.3
52.5°	24779.1	26670.5	29070.7	30491.4	29688.4	25835.1	25070.3	30053.2	29517.8	28961.9
55°	25932.1	28285.3	32097.5	33230.0	32421.1	27735.3	26558.7	31385.7	31332.7	30953.3
57.5°	27235.2	29991.4	33850.6	35383.1	34662.5	29964.9	28638.3	32641.7	32441.6	32229.9
59°	28264.7	30868.0	34624.2	36212.6	35777.3	31526.8	30035.5	33424.1	32697.6	32379.9
60°	28888.3	31462.1	34909.6	36324.4	36224.4	32456.4	30920.9	33806.5	32694.6	32253.4
62.5°	30738.5	32500.5	34800.7	35827.3	36218.5	34238.9	33518.2	34227.1	32088.7	31441.5
65°	31397.4	32156.3	32997.6	32871.1	33206.4	34147.7	35177.2	33765.3	30794.4	29873.7
67.5°	30114.9	28382.4	28679.5	27835.3	27670.6	30359.1	34503.6	31506.3	28261.8	27135.2
70°	25385.0	21743.5	21593.4	21981.7	20916.9	24579.1	30982.7	27155.8	24081.9	22805.3
72.5°	19981.5	15366.3	14101.5	15531.0	15498.7	18752.0	25738.0	19269.7	16269.4	16160.5
75°	15713.4	10698.2	9389.2	9621.6	10068.7	13575.0	20499.2	12236.6	10018.7	9130.4
77.5°	10548.2	7580.2	7071.3	6786.0	7268.4	8715.6	12969.0	6636.0	5618.2	5321.1
80°	6080.1	5506.5	6253.6	5677.1	5935.9	5491.8	6450.7	3044.4	2526.7	2735.6
82.5°	3956.3	3135.6	3341.5	2482.6	3394.5	3423.9	2070.8	900.1	761.8	808.9
85°	2473.8	1470.7	826.6	588.3	1170.7	2153.2	647.1	55.9	64.7	55.9
87.5°	641.2	244.1	103.0	153.0	188.3	167.7	150.0	8.8	2.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)