

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: P534321

Luminaire Tested: **GALN-SA9D-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-740-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38770 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G2

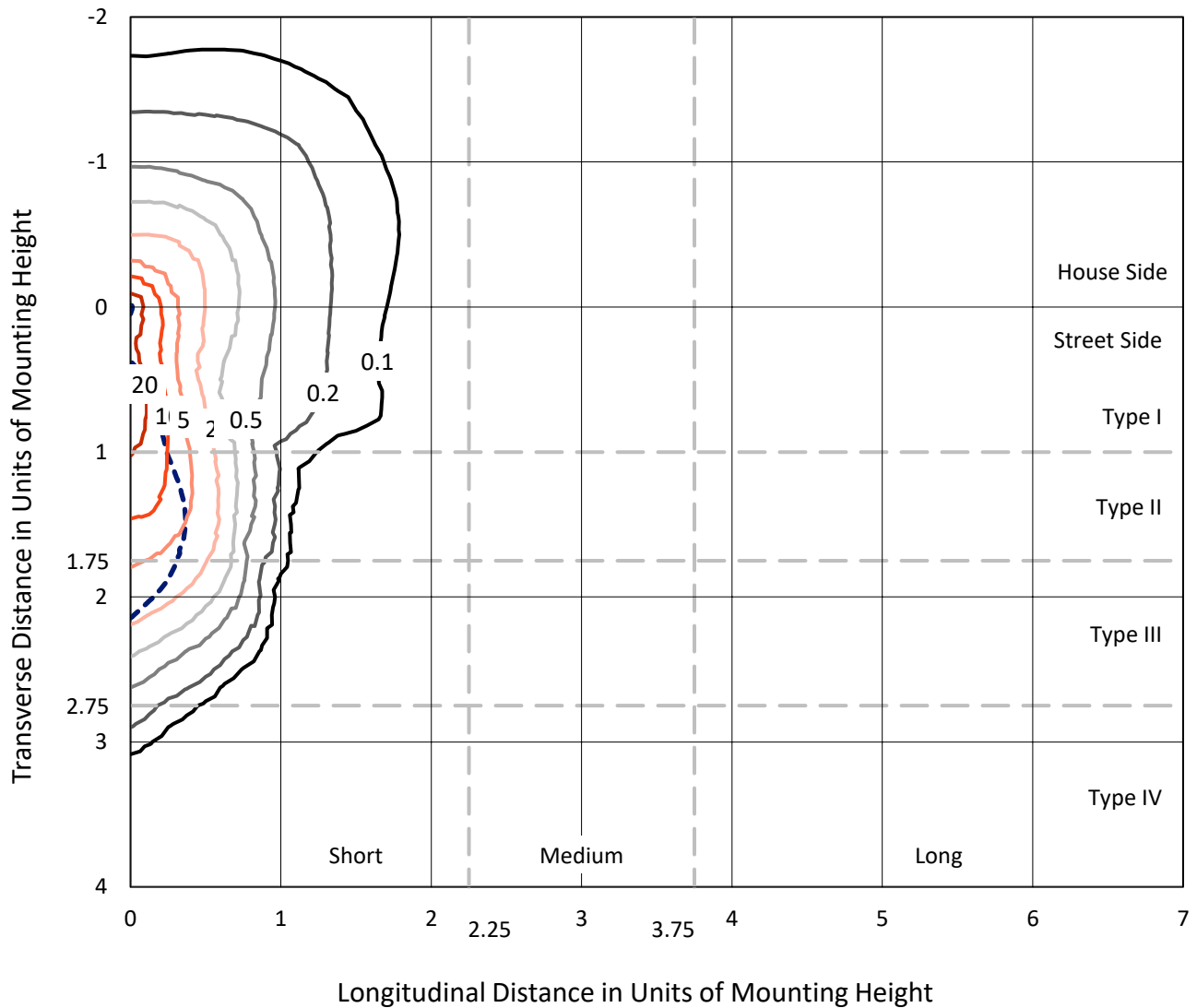
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

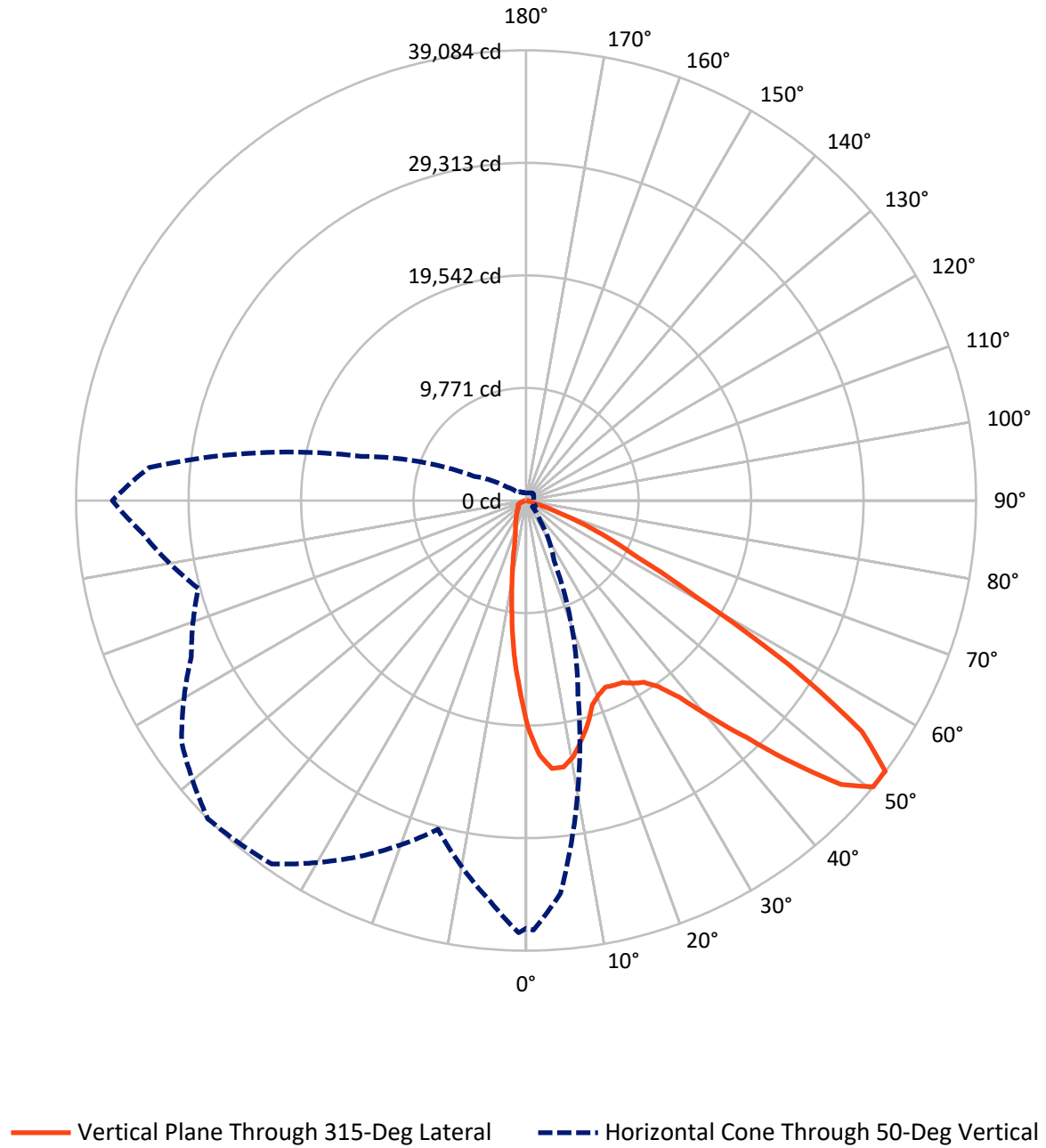
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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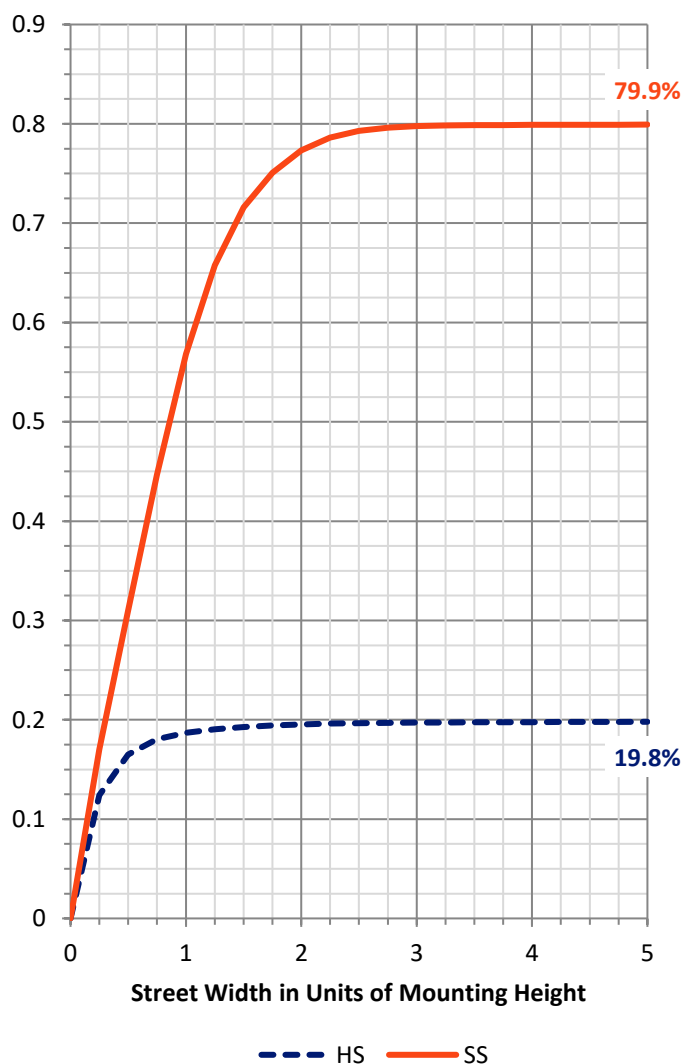
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7765.6	0.0	7765.6
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	31004.4	0.0	31004.4
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	38770.0	0.0	38770.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1433.1	3.7
10°-20°	2848.2	7.3
20°-30°	4278.9	11.0
30°-40°	6422.5	16.6
40°-50°	9026.4	23.3
50°-60°	9736.5	25.1
60°-70°	4520.6	11.7
70°-80°	425.3	1.1
80°-90°	78.4	0.2
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°	38770.0	100.0
0°-180°	38770.0	100.0

**Coefficient of Utilization**



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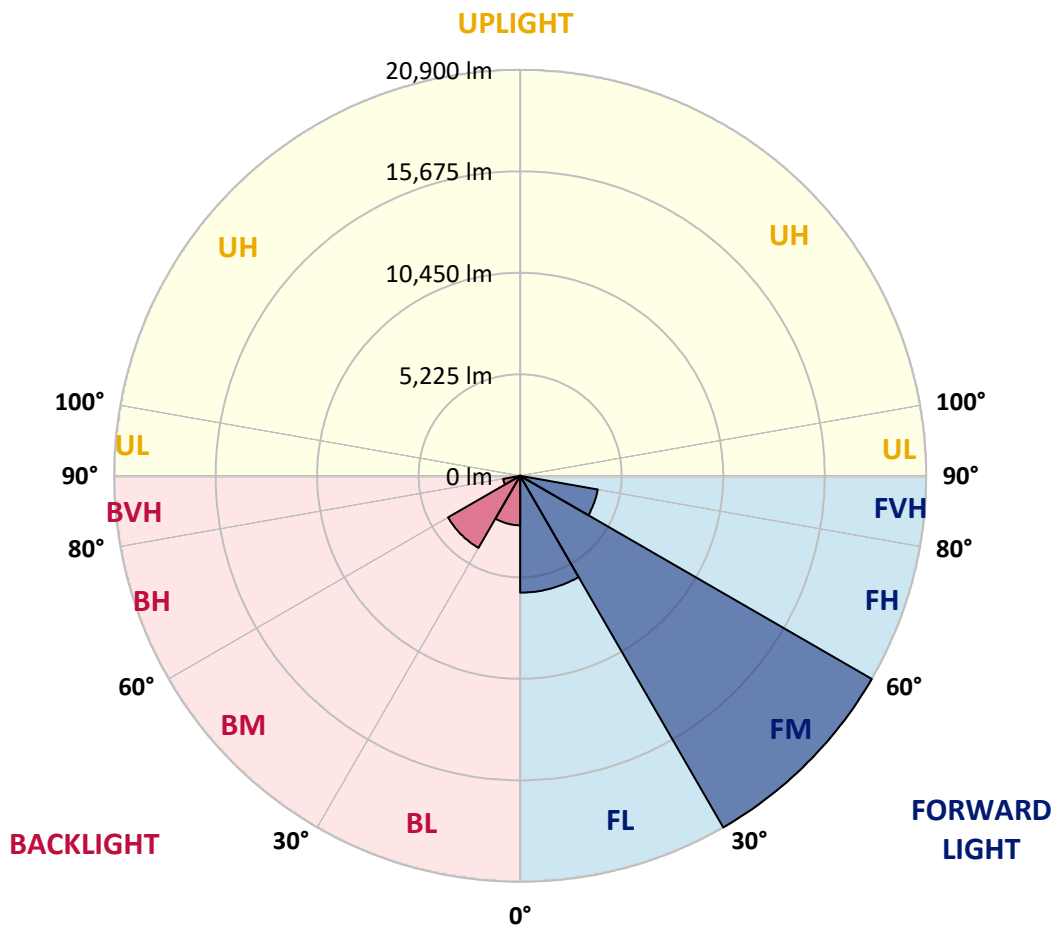
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6014.8	15.5			
FM (30°-60°)	20899.9	53.9			
FH (60°-80°)	4054.3	10.5			G2/5000
FVH (80°-90°)	35.3	0.1			G1/100
BL (0°-30°)	2545.4	6.6	B4/5000		
BM (30°-60°)	4285.5	11.1	B3/5000		
BH (60°-80°)	891.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	43.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3
2.5°	20438.2	20122.8	19722.8	19392.0	18899.7	17907.5	17638.2	17315.2	17045.9	16684.4	16176.7
5°	18584.4	18484.4	18299.8	17053.6	16153.6	14953.6	13969.0	13553.7	13007.5	12561.4	12238.3
7.5°	17169.0	16769.0	16184.4	14930.6	13492.1	12207.5	11115.2	10476.8	9753.7	9507.6	9069.1
10°	15653.6	15745.9	14884.4	13122.9	11384.5	10346.0	9669.1	9053.7	8399.9	7969.1	7346.1
12.5°	15169.0	14869.0	14207.5	12030.6	10546.0	9576.8	8753.7	7992.2	7299.9	6607.6	6007.6
15°	15484.4	15022.9	14099.8	11799.8	9899.9	8692.2	7661.4	6630.7	5992.2	5107.6	4484.6
17.5°	16615.2	16245.9	15007.5	12046.0	9569.1	7846.0	6315.3	5253.8	4276.9	3476.9	3161.5
20°	18499.8	17976.7	16422.9	12361.4	9076.8	6823.0	5123.0	3815.3	2892.3	2553.8	2376.9
22.5°	20345.9	20061.3	18099.8	12969.1	8638.3	5915.3	3846.1	2569.2	2161.5	2100.0	1984.6
25°	23861.2	23007.4	20661.3	14069.0	8299.9	5061.5	2900.0	2069.2	1830.7	1784.6	1800.0
27.5°	25953.5	25238.1	23030.5	14799.8	7923.0	4407.6	2453.8	1900.0	1738.4	1638.4	1600.0
30°	27961.2	27130.4	24207.4	15230.6	7115.3	3715.3	2176.9	1823.1	1784.6	1638.4	1592.3
32.5°	29507.3	28691.9	25907.3	15876.7	6784.5	3269.2	1792.3	1423.1	1323.1	1307.7	1446.1
35°	31876.5	31007.3	27361.2	16230.6	6530.7	3038.4	1553.8	1269.2	1153.8	1107.7	1115.4
37.5°	34084.2	33491.9	28707.3	16369.0	6261.5	2969.2	1392.3	1138.4	1038.4	1007.7	1000.0
40°	35930.3	34607.2	29984.2	16515.2	6146.1	2838.4	1292.3	1038.4	969.2	923.1	923.1
42.5°	36776.4	35430.3	31415.0	16430.6	6115.3	2630.7	1292.3	953.8	900.0	853.8	846.1
45°	36591.8	36045.7	32053.4	16392.1	6115.3	2423.0	1176.9	930.8	853.8	792.3	776.9
47.5°	37068.7	36353.4	32853.4	16553.6	5992.2	2276.9	992.3	976.9	807.7	730.8	715.4
50°	37153.4	37291.8	34245.7	17392.1	5723.0	2092.3	776.9	961.5	776.9	661.5	646.1
52°	37707.2	36845.7	34668.8	17838.2	5438.4	1953.8	653.8	823.1	746.1	615.4	600.0
52.5°	36945.7	37507.2	34768.8	17999.8	5469.2	1861.5	630.8	807.7	730.8	615.4	576.9
55°	36091.8	36630.3	34361.1	18345.9	5015.3	1461.5	492.3	584.6	661.5	538.5	515.4
57.5°	31368.8	31915.0	29861.1	16799.8	4084.6	1030.8	407.7	438.5	584.6	500.0	476.9
60°	27884.2	27491.9	25061.2	14015.2	2900.0	576.9	323.1	338.5	638.5	461.5	453.8
62.5°	25484.3	24645.8	20945.9	10822.9	1769.2	384.6	253.8	261.5	492.3	430.8	430.8
65°	18853.6	17915.1	13915.2	6546.1	869.2	269.2	192.3	207.7	307.7	369.2	369.2
67.5°	10761.4	10399.9	6723.0	2953.8	361.5	169.2	146.2	161.5	238.5	300.0	284.6
70°	4946.1	4438.4	2584.6	623.1	169.2	115.4	115.4	130.8	192.3	223.1	207.7
72.5°	1446.1	1369.2	630.8	100.0	69.2	69.2	76.9	100.0	146.2	169.2	153.8
75°	107.7	69.2	46.2	30.8	30.8	46.2	61.5	100.0	146.2	161.5	130.8
77.5°	7.7	15.4	7.7	7.7	23.1	46.2	69.2	123.1	192.3	200.0	146.2
80°	7.7	7.7	0.0	7.7	23.1	46.2	76.9	138.5	215.4	230.8	123.1
82.5°	0.0	0.0	0.0	7.7	30.8	61.5	92.3	146.2	200.0	246.2	130.8
85°	0.0	0.0	0.0	7.7	46.2	84.6	107.7	38.5	23.1	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3
2.5°	16538.2	16338.2	16261.3	16330.6	16307.5	16284.4	16707.5	16615.2	16599.8	16738.2	16707.5
5°	12415.2	12061.4	13030.6	12638.3	13046.0	13292.1	13338.3	13361.4	13646.0	13346.0	13738.3
7.5°	8846.0	8938.3	8930.7	9192.2	9661.4	10076.8	10322.9	10130.6	10115.3	10076.8	9907.6
10°	7069.1	6907.6	6876.8	6815.3	6961.4	7315.3	7615.3	7376.8	7207.6	7438.4	7369.1
12.5°	5776.8	5553.8	5430.7	5184.5	5192.2	5430.7	5430.7	5430.7	5599.9	5730.7	5830.7
15°	4430.7	4246.1	4246.1	3999.9	3946.1	3953.8	4076.9	4092.3	4361.5	4438.4	4476.9
17.5°	3100.0	3000.0	3115.3	3215.3	3153.8	3169.2	3215.3	3230.7	3269.2	3238.4	3315.3
20°	2384.6	2369.2	2400.0	2576.9	2707.7	2784.6	2730.7	2653.8	2607.7	2500.0	2500.0
22.5°	2023.1	2053.8	2107.7	2253.8	2423.0	2469.2	2407.7	2230.7	2092.3	2076.9	2084.6
25°	1800.0	1830.7	1915.4	2007.7	2100.0	2176.9	2115.4	1984.6	1907.7	1838.4	1838.4
27.5°	1661.5	1676.9	1723.1	1792.3	1869.2	1930.7	1907.7	1838.4	1753.8	1723.1	1653.8
30°	1553.8	1576.9	1630.7	1646.1	1715.4	1746.1	1707.7	1692.3	1638.4	1600.0	1576.9
32.5°	1500.0	1492.3	1530.7	1546.1	1553.8	1576.9	1530.7	1553.8	1546.1	1484.6	1461.5
35°	1130.8	1192.3	1292.3	1376.9	1400.0	1430.8	1423.1	1392.3	1307.7	1238.4	1153.8
37.5°	1015.4	1053.8	1107.7	1176.9	1269.2	1307.7	1292.3	1215.4	1115.4	1069.2	1053.8
40°	938.4	961.5	1007.7	1053.8	1146.1	1215.4	1161.5	1092.3	1015.4	976.9	953.8
42.5°	869.2	876.9	900.0	946.1	1015.4	1123.1	1030.8	938.4	907.7	884.6	869.2
45°	792.3	792.3	823.1	846.1	923.1	1023.1	930.8	846.1	830.8	815.4	807.7
47.5°	730.8	738.5	753.8	784.6	846.1	915.4	853.8	784.6	746.1	738.5	723.1
50°	653.8	661.5	692.3	723.1	800.0	838.5	800.0	723.1	684.6	661.5	661.5
52°	592.3	615.4	646.1	707.7	761.5	823.1	776.9	692.3	646.1	623.1	607.7
52.5°	584.6	600.0	630.8	700.0	761.5	815.4	769.2	684.6	630.8	615.4	600.0
55°	523.1	546.1	600.0	684.6	753.8	815.4	753.8	676.9	600.0	561.5	546.1
57.5°	500.0	515.4	584.6	692.3	746.1	815.4	753.8	676.9	600.0	530.8	515.4
60°	476.9	507.7	584.6	669.2	738.5	823.1	761.5	669.2	584.6	500.0	500.0
62.5°	453.8	476.9	576.9	653.8	707.7	792.3	730.8	653.8	561.5	476.9	469.2
65°	392.3	430.8	507.7	546.1	607.7	684.6	623.1	569.2	492.3	423.1	415.4
67.5°	300.0	315.4	376.9	423.1	461.5	530.8	500.0	430.8	376.9	323.1	323.1
70°	207.7	223.1	269.2	292.3	330.8	369.2	346.1	292.3	253.8	223.1	215.4
72.5°	146.2	153.8	169.2	184.6	200.0	215.4	207.7	169.2	146.2	138.5	130.8
75°	115.4	130.8	138.5	130.8	123.1	115.4	115.4	100.0	84.6	76.9	76.9
77.5°	115.4	123.1	115.4	100.0	84.6	76.9	69.2	61.5	46.2	38.5	46.2
80°	100.0	100.0	100.0	84.6	76.9	69.2	61.5	53.8	46.2	38.5	38.5
82.5°	107.7	107.7	100.0	84.6	84.6	69.2	69.2	61.5	53.8	38.5	38.5
85°	0.0	0.0	0.0	15.4	38.5	69.2	69.2	61.5	53.8	46.2	46.2
87.5°	0.0	0.0	0.0	0.0	7.7	15.4	30.8	38.5	46.2	46.2	46.2
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°	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3
2.5°	16984.4	17276.7	17830.5	18384.4	18722.8	19122.8	19845.9	20230.5	20730.5	20976.6	21461.3
5°	13684.4	14376.7	14622.9	15253.6	15930.6	16607.5	17684.4	18869.0	19853.6	20530.5	21407.4
7.5°	9984.5	10146.0	11099.9	11522.9	12630.6	13861.4	15330.6	16822.9	18069.0	19176.7	19845.9
10°	7484.5	8076.8	8676.8	9484.5	10376.8	11646.0	13053.7	14699.8	16315.2	17422.8	18269.0
12.5°	6015.3	6484.5	7284.5	8153.7	9253.7	10092.2	11507.5	13138.3	15230.6	16315.2	17430.5
15°	4553.8	5153.8	6061.5	6961.4	8123.0	9007.6	10438.3	12492.1	15184.4	16676.7	17638.2
17.5°	3376.9	3784.6	4599.9	5607.6	6792.2	8038.4	9969.1	12422.9	15699.8	17476.7	18469.0
20°	2584.6	2723.0	3238.4	4138.4	5423.0	7053.8	9207.6	12722.9	17222.8	19422.8	20430.5
22.5°	2092.3	2153.8	2353.8	2976.9	4223.0	6192.2	8846.0	12930.6	18938.2	21753.6	23099.7
25°	1823.1	1807.7	1938.4	2207.7	3300.0	5384.5	8384.5	13715.2	21038.2	24492.0	25699.7
27.5°	1661.5	1661.5	1723.1	1915.4	2738.4	4861.5	8092.2	14276.7	23153.5	26899.6	27553.5
30°	1576.9	1592.3	1769.2	1830.7	2276.9	4238.4	7607.6	14846.0	25176.6	28438.1	29338.1
32.5°	1461.5	1400.0	1361.5	1515.4	1915.4	3676.9	7123.0	15084.4	26815.0	30322.7	31091.9
35°	1123.1	1092.3	1138.4	1253.8	1646.1	3200.0	6584.5	15353.6	28699.6	32507.3	32661.1
37.5°	1015.4	1007.7	1038.4	1138.4	1384.6	2784.6	6199.9	15284.4	30138.1	34314.9	33899.5
40°	938.4	938.4	961.5	1046.1	1238.4	2492.3	5799.9	15222.9	31530.4	36345.7	35130.3
42.5°	876.9	876.9	915.4	969.2	1176.9	2300.0	5499.9	15138.3	32699.6	37591.8	35853.4
45°	792.3	815.4	876.9	930.8	1192.3	2169.2	5276.9	14815.2	33099.6	37576.4	35507.2
47.5°	730.8	761.5	823.1	900.0	1076.9	2130.7	5123.0	14530.6	32961.1	36653.4	34422.6
50°	661.5	700.0	784.6	915.4	915.4	2053.8	4961.5	14784.4	32861.1	35938.0	33384.2
52°	615.4	646.1	753.8	892.3	800.0	1892.3	4861.5	15276.7	33268.8	35845.7	32922.6
52.5°	607.7	630.8	730.8	876.9	761.5	1861.5	4792.2	15392.1	33399.6	35614.9	33238.0
55°	538.5	569.2	669.2	684.6	623.1	1530.7	4569.2	15653.6	32753.4	35161.1	32938.0
57.5°	507.7	523.1	592.3	561.5	538.5	1153.8	3930.7	15246.0	29091.9	31230.4	30645.7
60°	469.2	484.6	553.8	438.5	453.8	807.7	2953.8	13238.3	23361.2	26022.7	27076.6
62.5°	453.8	446.1	523.1	353.8	384.6	584.6	2084.6	10761.4	17999.8	21422.8	23245.8
65°	400.0	392.3	376.9	300.0	330.8	453.8	1246.1	7023.0	12684.4	16207.5	17207.5
67.5°	307.7	323.1	276.9	238.5	276.9	353.8	692.3	3146.1	6653.8	9722.9	10530.6
70°	215.4	230.8	223.1	207.7	246.2	292.3	400.0	1076.9	2753.8	5107.6	5630.7
72.5°	130.8	161.5	169.2	176.9	215.4	253.8	284.6	346.1	730.8	1807.7	2246.1
75°	76.9	107.7	130.8	153.8	176.9	215.4	238.5	246.2	253.8	338.5	546.1
77.5°	53.8	76.9	115.4	146.2	176.9	215.4	253.8	269.2	253.8	238.5	253.8
80°	46.2	76.9	107.7	138.5	184.6	223.1	253.8	253.8	246.2	215.4	230.8
82.5°	46.2	76.9	115.4	146.2	176.9	215.4	246.2	253.8	230.8	215.4	223.1
85°	53.8	84.6	123.1	153.8	192.3	176.9	161.5	130.8	123.1	100.0	107.7
87.5°	53.8	76.9	76.9	84.6	92.3	92.3	92.3	84.6	69.2	61.5	61.5
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: P534321

CATALOG NUMBER: GALN-SA9D-740-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3	19661.3
2.5°	21484.3	22099.7	22076.6	22092.0	21999.7	21376.6	21076.6	20315.1	20530.5	20438.2
5°	22307.4	22915.1	23438.1	23376.6	22668.9	21822.8	20569.0	19384.4	19061.3	18584.4
7.5°	21484.3	22945.8	23430.5	23361.2	22315.1	21230.5	19230.5	18045.9	17484.4	17169.0
10°	20176.7	21868.9	22468.9	22592.0	21884.3	20238.2	18399.8	16499.8	16199.8	15653.6
12.5°	19430.5	20661.3	21030.5	21361.3	21115.1	19884.4	17769.0	15945.9	15530.6	15169.0
15°	18822.8	19553.6	19707.4	20084.3	20230.5	19569.0	18099.8	16545.9	15522.9	15484.4
17.5°	19384.4	19084.4	18522.8	18638.2	19099.7	19576.7	18953.6	17730.5	16738.2	16615.2
20°	20315.1	18992.1	17722.8	18007.5	18392.1	19853.6	20245.9	19384.4	18815.1	18499.8
22.5°	21384.3	19153.6	17469.0	17607.5	18338.2	20476.7	22338.2	21861.2	20799.7	20345.9
25°	23361.2	19599.7	17669.0	17761.3	18761.3	21345.9	24230.4	24584.3	23953.5	23861.2
27.5°	25292.0	20753.6	18107.5	17899.8	18976.7	22192.0	25376.6	27276.6	26168.9	25953.5
30°	26276.6	21692.0	18761.3	18407.4	19869.0	22707.4	26068.9	29030.4	28061.2	27961.2
32.5°	27784.2	22545.9	19269.0	18815.1	20369.0	23345.8	27361.2	30945.7	30007.3	29507.3
35°	28415.0	23476.6	20384.3	19853.6	21799.7	24238.1	28022.7	32653.4	32361.1	31876.5
37.5°	29630.4	24476.6	21699.7	21668.9	23530.5	25399.7	29215.0	34976.5	34922.6	34084.2
40°	29730.4	25568.9	23776.6	24745.8	26207.3	27422.7	30261.1	35622.6	36499.5	35930.3
42.5°	29884.2	27484.2	27368.9	28168.9	29422.7	29161.2	30299.6	35776.4	37114.9	36776.4
45°	29953.4	29399.6	31022.7	32499.6	33022.6	31438.0	29938.1	35484.1	37438.0	36591.8
47.5°	29399.6	31045.7	33976.5	36830.3	36984.1	32838.0	29784.2	35184.1	37630.3	37068.7
50°	29476.5	32076.5	36530.3	39084.1	38522.6	34076.5	29545.8	34999.5	37530.3	37153.4
52°	29291.9	32099.6	36891.8	39037.9	38645.6	33391.9	29138.1	34291.9	37438.0	37707.2
52.5°	29499.6	31961.1	36514.9	39068.7	38561.0	33730.3	29084.2	34684.2	37491.8	36945.7
55°	28784.2	30315.0	34307.2	35391.8	35314.9	30615.0	27430.4	33384.2	36084.1	36091.8
57.5°	26015.0	26276.6	26907.3	26884.3	26530.4	24068.9	23461.2	30699.6	32168.8	31368.8
60°	22922.8	19238.2	17538.2	16845.9	16453.6	16053.6	20753.6	28084.2	28222.7	27884.2
62.5°	19807.4	13338.3	11076.8	10884.5	10976.8	12438.3	20061.3	27045.8	26215.0	25484.3
65°	15984.4	9722.9	8046.0	7792.2	8692.2	10269.1	16238.2	20738.2	19461.3	18853.6
67.5°	10038.3	7092.2	5438.4	4961.5	6046.1	7069.1	10669.1	13030.6	11599.8	10761.4
70°	5953.8	3961.5	2461.5	2207.7	2484.6	3769.2	5976.8	6499.9	5376.9	4946.1
72.5°	2346.1	1453.8	684.6	584.6	607.7	1323.1	2200.0	2146.1	1623.1	1446.1
75°	630.8	438.5	238.5	192.3	161.5	246.2	353.8	230.8	84.6	107.7
77.5°	292.3	261.5	207.7	161.5	123.1	92.3	46.2	15.4	15.4	7.7
80°	253.8	223.1	192.3	161.5	123.1	76.9	38.5	7.7	7.7	7.7
82.5°	238.5	207.7	176.9	146.2	115.4	76.9	38.5	7.7	0.0	0.0
85°	100.0	130.8	146.2	138.5	123.1	76.9	38.5	7.7	0.0	0.0
87.5°	53.8	46.2	38.5	30.8	23.1	15.4	15.4	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

(END OF REPORT)