

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: P533799

Luminaire Tested: **GALN-SA9B-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533799  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-730-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25972 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

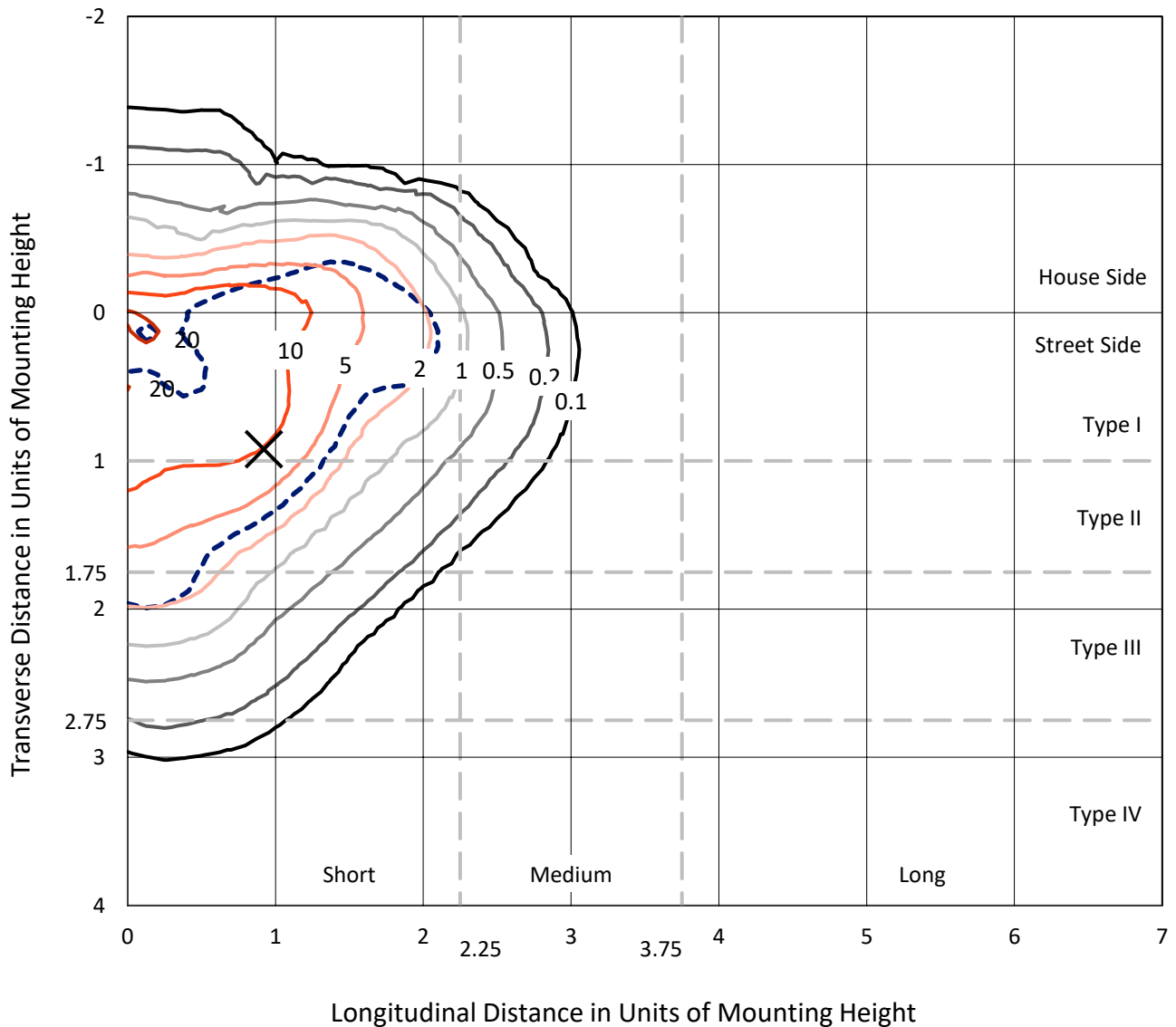
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

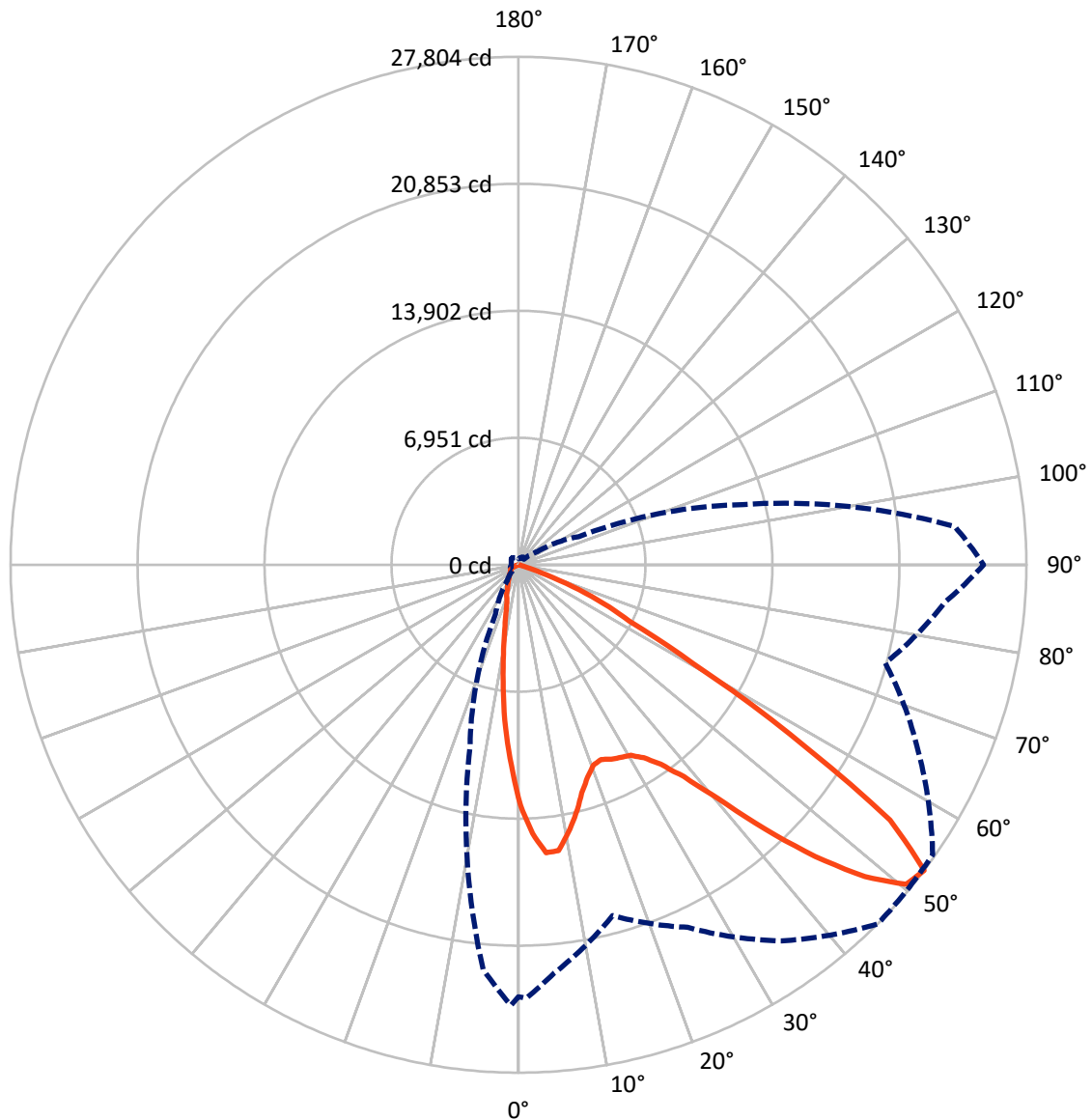
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P533799  
CATALOG NUMBER: GALN-SA9B-730-U-SLL-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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 CATALOG NUMBER: GALN-SA9B-730-U-SLL-GRSBK

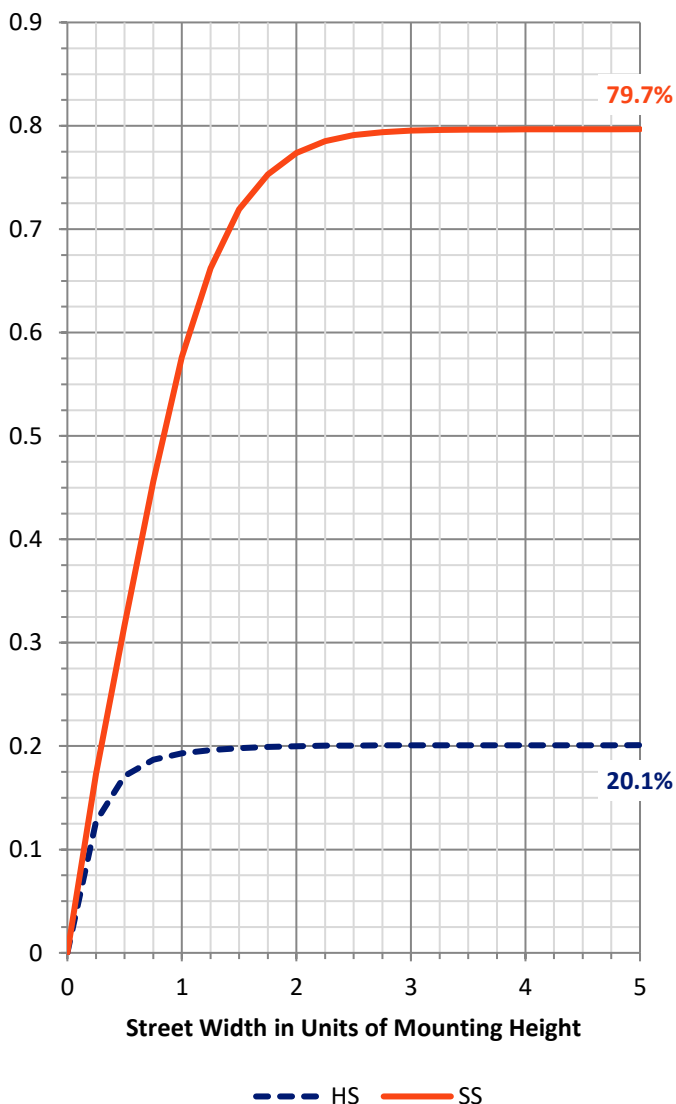
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5271.0	0.0	5271.0
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	20701.0	0.0	20701.0
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	25972.0	0.0	25972.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	960.4	3.7
10°-20°	1894.8	7.3
20°-30°	2883.6	11.1
30°-40°	4309.9	16.6
40°-50°	6137.7	23.6
50°-60°	6597.8	25.4
60°-70°	2923.6	11.3
70°-80°	236.5	0.9
80°-90°	27.6	0.1
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°	25972.0	100.0
0°-180°	25972.0	100.0

**Coefficient of Utilization**



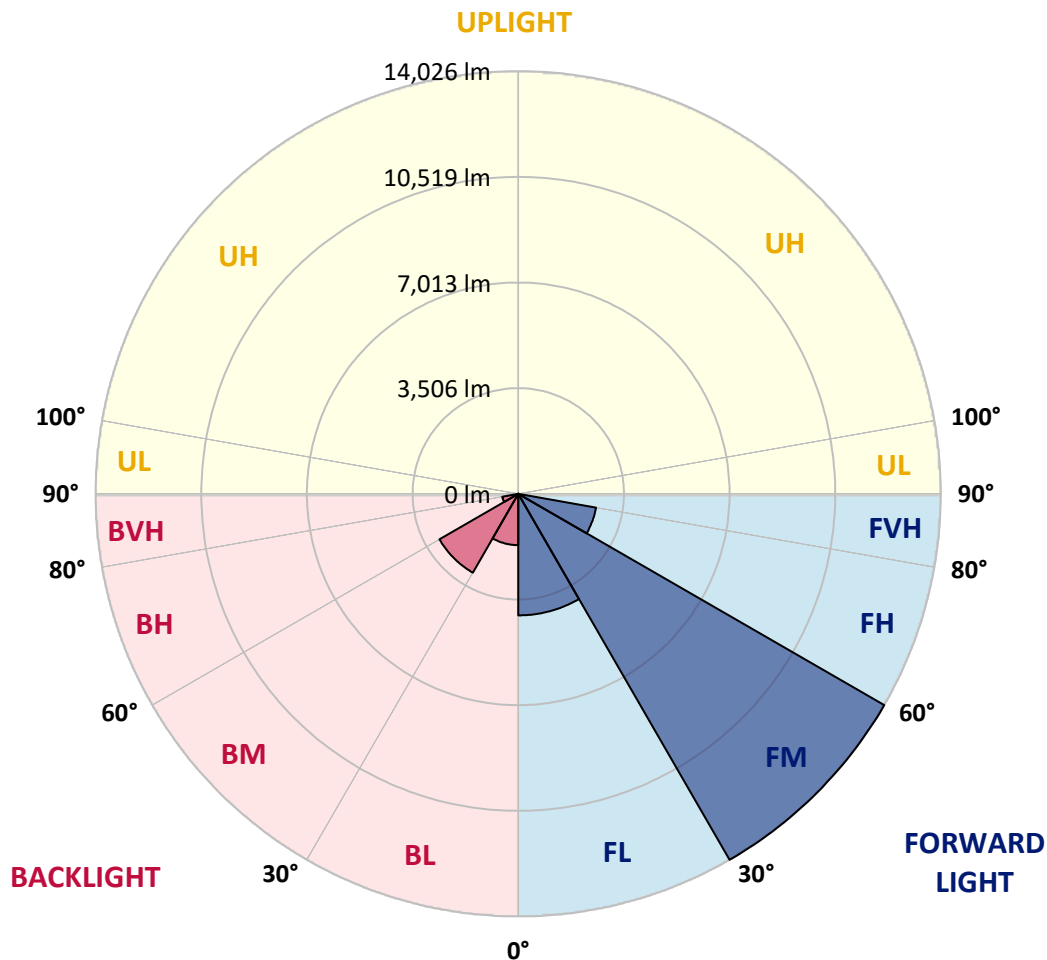
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 CATALOG NUMBER: GALN-SA9B-730-U-SLL-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4034.0	15.5			
FM (30°-60°)	14025.7	54.0			
FH (60°-80°)	2620.9	10.1			G2/5000
FVH (80°-90°)	20.4	0.1			G1/100
BL (0°-30°)	1704.9	6.6	B3/2500		
BM (30°-60°)	3019.7	11.6	B3/5000		
BH (60°-80°)	539.3	2.1	B2/1000		G2/1000
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





REPORT NUMBER: P533799

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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0
2.5°	13935.2	13976.1	14200.9	14481.8	14630.0	14967.1	14732.1	14793.4	14665.7	14216.2	13863.7
5°	13511.3	13506.2	13792.2	14486.9	15145.9	15815.1	15835.5	15477.9	14849.6	14160.0	13174.1
7.5°	12234.2	12433.4	12729.7	13838.2	15059.1	15559.7	15799.7	15380.9	14415.4	13429.5	12361.9
10°	11268.8	11370.9	11871.5	13209.9	14103.8	14773.0	14921.1	14681.0	13940.4	12709.3	11513.9
12.5°	10712.0	10763.0	11350.5	12474.3	13419.3	13914.8	13986.3	14098.7	13567.5	12413.0	10977.6
15°	10717.1	10757.9	11549.7	12489.6	12862.5	12729.7	12964.7	12959.6	13189.4	12356.8	11427.1
17.5°	11488.4	11534.4	12249.5	12714.4	12550.9	12239.3	12224.0	12459.0	12944.2	13056.6	12106.5
20°	12816.5	12923.8	13450.0	13424.4	12504.9	11876.6	11702.9	11881.7	13010.7	13649.2	13475.5
22.5°	14604.4	14752.6	15120.4	14415.4	12714.4	11631.4	11575.2	11922.6	13450.0	14972.2	15028.4
25°	16678.4	16928.7	17107.5	16203.3	13460.2	12055.4	11789.8	12387.5	14042.5	16407.6	17005.3
27.5°	18052.5	18313.0	18272.1	16979.7	13960.8	12167.8	11943.0	12499.8	14558.4	16749.9	18037.2
30°	19125.2	19283.6	19569.6	17398.6	14461.4	12484.5	12101.4	12974.9	14727.0	17342.4	19283.6
32.5°	20376.7	20484.0	20504.4	18139.3	15232.7	12883.0	12591.8	13567.5	15472.8	17909.4	20386.9
35°	21638.5	21796.8	21464.8	19053.7	15707.8	13623.6	13409.1	14594.2	16070.5	18496.9	21602.7
37.5°	23007.5	23089.2	22323.0	19431.7	16387.2	14829.2	14711.7	15702.7	17107.5	19559.4	22951.3
40°	24156.8	24233.4	23237.3	19896.5	17102.3	16514.9	16816.3	17817.5	18517.3	20249.0	23625.6
42.5°	24795.3	24974.1	23543.8	19641.1	18537.8	18425.4	19763.7	20116.2	20152.0	20443.1	24228.3
45°	24969.0	24887.3	23038.1	19850.6	19794.4	21566.9	22782.7	23247.5	21776.4	20800.7	24381.6
47.5°	24167.0	24274.3	22292.3	19666.7	21444.3	23947.4	25520.7	26384.0	22987.0	20489.1	24003.6
50°	23518.3	23380.4	22052.2	19533.9	21888.8	25071.2	27497.6	27691.7	24100.6	20872.2	23589.8
52.5°	23646.0	23732.8	22435.3	19886.3	21899.0	25137.6	27804.1	27671.3	24136.4	20785.4	23441.7
55°	23916.7	23533.6	22271.9	19109.9	20432.9	23283.3	24677.8	24473.5	22277.0	19860.8	23079.0
57.5°	20637.2	21229.8	20478.9	17061.5	16770.3	17541.7	17516.1	18144.4	16617.1	17092.1	21010.1
60°	16749.9	16852.0	17133.0	14594.2	11605.9	11340.3	10972.5	10574.0	11181.9	14614.6	19109.9
62.5°	14732.1	14609.5	15610.7	13276.3	8193.6	6860.3	6799.1	7044.2	8627.8	13940.4	17924.8
65°	10706.8	10860.1	11585.5	10303.3	6150.3	5235.9	5144.0	5869.4	6982.9	11171.7	13679.8
67.5°	6538.5	6834.8	6901.2	6354.6	4173.4	3315.2	3182.4	3841.4	5041.8	7228.1	8019.9
70°	3019.0	3376.5	3713.7	3468.5	2416.2	1363.9	1287.3	1614.2	2543.9	4158.1	4255.2
72.5°	914.4	919.5	1287.3	1343.5	781.6	306.5	270.7	357.6	863.3	1374.1	1445.6
75°	66.4	71.5	173.7	199.2	148.1	76.6	81.7	97.1	183.9	306.5	229.9
77.5°	5.1	5.1	5.1	25.5	46.0	51.1	66.4	76.6	97.1	112.4	102.2
80°	5.1	0.0	5.1	20.4	35.8	51.1	61.3	71.5	76.6	86.8	76.6
82.5°	0.0	0.0	0.0	15.3	35.8	51.1	56.2	76.6	86.8	102.2	86.8
85°	0.0	0.0	0.0	15.3	35.8	56.2	51.1	25.5	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0
2.5°	13925.0	13725.8	13271.2	13041.3	12499.8	12423.2	11892.0	11805.1	11626.3	11529.3	11294.3
5°	12739.9	12499.8	11759.1	11135.9	10410.6	9904.9	9516.6	9164.2	8959.8	8770.8	8857.7
7.5°	11774.5	11074.6	10252.2	9210.1	8372.4	7830.9	7238.4	6753.1	6467.0	6272.9	6318.9
10°	10763.0	10308.4	9164.2	7994.4	6982.9	6599.8	6135.0	5762.1	5358.5	5011.2	4847.7
12.5°	10446.3	9772.0	8336.6	7146.4	6380.2	6007.3	5476.0	5046.9	4531.0	4107.0	3958.9
15°	10502.5	9853.8	8111.9	6839.9	5935.8	5292.1	4658.7	4127.4	3560.4	3264.2	3110.9
17.5°	11416.9	10293.1	8260.0	6518.1	5317.7	4423.7	3642.2	2967.9	2543.9	2237.4	2171.0
20°	12540.7	11243.2	8576.7	6283.1	4812.0	3519.6	2661.4	2079.0	1726.6	1675.5	1660.2
22.5°	14185.5	12796.1	9256.1	6124.8	4193.9	2743.1	1823.6	1512.0	1415.0	1404.8	1409.9
25°	16484.3	14742.3	9996.8	5992.0	3729.0	2114.8	1491.6	1282.2	1251.5	1236.2	1261.7
27.5°	17480.4	15917.2	10390.1	5705.9	3305.0	1905.4	1471.2	1271.9	1185.1	1159.6	1174.9
30°	18711.4	16698.8	11008.2	5215.5	2681.8	1568.2	1374.1	1384.3	1343.5	1215.8	1174.9
32.5°	20346.1	17674.5	11319.8	4868.1	2395.8	1297.5	1006.3	924.6	1031.9	1052.3	1088.1
35°	21393.3	18665.5	11478.2	4663.8	2247.6	1108.5	853.1	776.5	750.9	756.0	776.5
37.5°	23339.5	20003.8	11677.4	4449.3	2135.2	965.5	771.3	699.8	664.1	664.1	684.5
40°	24504.2	21066.3	11948.1	4331.8	2022.9	878.6	699.8	638.5	607.9	607.9	618.1
42.5°	24795.3	21592.5	11856.2	4290.9	1895.2	858.2	638.5	592.6	556.8	551.7	546.6
45°	25316.4	22394.5	11871.5	4244.9	1762.3	781.6	602.8	551.7	500.6	495.5	490.4
47.5°	25888.5	22971.7	11902.2	4066.1	1634.6	653.9	628.3	510.8	449.5	439.3	439.3
50°	25398.1	23431.4	12167.8	3887.4	1471.2	531.3	618.1	480.2	398.4	383.1	388.2
52.5°	25459.4	23972.9	12729.7	3637.1	1266.8	424.0	500.6	454.6	362.7	337.1	342.3
55°	24478.6	23400.8	12806.3	3371.4	991.0	326.9	383.1	398.4	306.5	296.3	296.3
57.5°	21071.4	19814.8	11299.4	2732.9	653.9	270.7	275.8	347.4	265.6	255.4	260.5
60°	18032.0	15907.0	9092.6	1803.2	408.7	214.5	199.2	352.5	235.0	229.9	245.2
62.5°	16438.3	13072.0	6896.1	1118.7	281.0	163.5	137.9	286.1	204.3	204.3	224.8
65°	11876.6	8781.0	4010.0	587.4	199.2	127.7	102.2	163.5	168.6	173.7	183.9
67.5°	7355.8	4433.9	1690.8	286.1	132.8	86.8	66.4	102.2	112.4	112.4	122.6
70°	3631.9	1767.4	561.9	163.5	102.2	71.5	46.0	56.2	56.2	51.1	56.2
72.5°	1123.8	531.3	143.0	102.2	71.5	46.0	25.5	20.4	10.2	0.0	5.1
75°	127.7	102.2	91.9	71.5	46.0	20.4	5.1	0.0	0.0	0.0	0.0
77.5°	76.6	86.8	86.8	71.5	46.0	15.3	0.0	0.0	0.0	0.0	0.0
80°	61.3	66.4	71.5	66.4	40.9	20.4	0.0	0.0	0.0	0.0	0.0
82.5°	76.6	86.8	97.1	86.8	56.2	25.5	10.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	15.3	5.1	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°	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0
2.5°	11197.2	11084.9	11243.2	11008.2	11003.1	11008.2	10941.8	10880.5	10977.6	11238.1	11263.6
5°	8546.1	8786.2	8862.8	9113.1	8975.2	8770.8	8811.7	8673.8	9010.9	9159.1	9041.6
7.5°	6221.8	6206.5	6722.4	6753.1	6819.5	6824.6	6814.4	6543.6	6267.8	6329.1	6513.0
10°	4827.3	4566.8	4817.1	4791.5	4955.0	4909.0	4975.4	4684.2	4781.3	4781.3	4898.8
12.5°	3933.3	3657.5	3611.5	3545.1	3611.5	3637.1	3662.6	3606.4	3769.9	3846.5	3928.2
15°	3003.6	2850.4	2809.5	2681.8	2702.3	2773.8	2835.1	2860.6	2809.5	2927.0	2937.2
17.5°	2181.2	2176.1	2201.6	2196.5	2176.1	2160.8	2155.7	2089.3	2068.8	2079.0	2119.9
20°	1655.1	1695.9	1782.8	1869.6	1915.6	1859.4	1782.8	1670.4	1624.4	1634.6	1639.7
22.5°	1415.0	1476.3	1593.8	1690.8	1736.8	1634.6	1496.7	1399.7	1379.2	1374.1	1369.0
25°	1282.2	1353.7	1440.5	1471.2	1466.1	1404.8	1302.6	1261.7	1251.5	1241.3	1195.3
27.5°	1210.6	1236.2	1251.5	1287.3	1302.6	1261.7	1236.2	1174.9	1164.7	1164.7	1134.0
30°	1169.8	1154.5	1174.9	1149.4	1169.8	1139.1	1144.2	1144.2	1118.7	1128.9	1128.9
32.5°	1088.1	1093.2	1093.2	1042.1	1057.4	1021.6	1057.4	1088.1	1093.2	1098.3	1139.1
35°	796.9	888.8	934.8	934.8	950.1	924.6	919.5	883.7	837.7	791.8	771.3
37.5°	699.8	735.6	796.9	832.6	858.2	837.7	791.8	735.6	710.0	689.6	669.2
40°	623.2	653.9	694.7	735.6	786.7	761.1	689.6	664.1	633.4	633.4	613.0
42.5°	561.9	577.2	602.8	664.1	720.3	669.2	618.1	597.7	582.3	577.2	572.1
45°	505.7	510.8	536.4	587.4	653.9	602.8	551.7	526.1	531.3	536.4	531.3
47.5°	454.6	464.8	480.2	541.5	582.3	556.8	500.6	485.3	485.3	485.3	490.4
50°	393.3	418.9	449.5	500.6	531.3	515.9	470.0	449.5	439.3	439.3	444.4
52.5°	352.5	372.9	413.8	475.1	515.9	490.4	444.4	413.8	393.3	388.2	398.4
55°	306.5	342.3	408.7	454.6	510.8	485.3	434.2	398.4	362.7	357.6	357.6
57.5°	275.8	332.0	393.3	449.5	495.5	475.1	434.2	388.2	342.3	337.1	337.1
60°	260.5	321.8	383.1	434.2	495.5	464.8	429.1	378.0	326.9	326.9	321.8
62.5°	245.2	301.4	362.7	413.8	475.1	449.5	413.8	362.7	311.6	311.6	301.4
65°	204.3	260.5	301.4	347.4	413.8	388.2	352.5	316.7	275.8	265.6	270.7
67.5°	143.0	178.8	219.7	265.6	306.5	296.3	281.0	255.4	219.7	214.5	209.4
70°	71.5	97.1	132.8	178.8	214.5	204.3	194.1	173.7	153.2	148.1	148.1
72.5°	10.2	30.6	56.2	81.7	112.4	117.5	112.4	107.3	102.2	97.1	102.2
75°	0.0	0.0	0.0	20.4	46.0	56.2	66.4	76.6	76.6	66.4	81.7
77.5°	0.0	0.0	0.0	0.0	5.1	25.5	51.1	66.4	81.7	71.5	97.1
80°	0.0	0.0	0.0	0.0	5.1	30.6	51.1	71.5	81.7	71.5	102.2
82.5°	0.0	0.0	0.0	0.0	5.1	35.8	51.1	66.4	76.6	71.5	91.9
85°	0.0	0.0	0.0	0.0	15.3	30.6	20.4	10.2	5.1	5.1	15.3
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: P533799

CATALOG NUMBER: GALN-SA9B-730-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0	13169.0
2.5°	11406.7	11769.4	12157.6	12305.7	12765.5	13112.8	13347.8	13853.5	13930.1	13935.2
5°	9164.2	9348.1	10012.1	10323.7	11008.2	11539.5	12106.5	12923.8	13470.4	13511.3
7.5°	6513.0	7023.8	7304.8	8117.0	8959.8	9792.5	10635.3	11585.5	12218.9	12234.2
10°	5241.0	5573.1	6073.7	6681.6	7391.6	8239.6	9363.4	10466.8	11110.4	11268.8
12.5°	4219.4	4801.7	5373.9	6002.2	6543.6	7182.2	8392.8	9864.0	10395.2	10712.0
15°	3248.8	3780.1	4454.4	5190.0	5802.9	6656.0	8035.2	9715.8	10609.8	10717.1
17.5°	2395.8	2870.8	3494.0	4188.7	5108.2	6318.9	8096.5	10466.8	11309.6	11488.4
20°	1721.5	1997.3	2487.7	3294.8	4464.6	5925.5	8157.8	11227.9	12510.0	12816.5
22.5°	1363.9	1476.3	1798.1	2513.2	3744.3	5511.8	8592.0	12683.7	14160.0	14604.4
25°	1185.1	1246.4	1399.7	1982.0	3289.7	5470.9	9286.8	14430.7	16356.5	16678.4
27.5°	1144.2	1154.5	1287.3	1818.5	3044.5	5200.2	9552.4	15672.0	17725.6	18052.5
30°	1205.5	1369.0	1379.2	1537.6	2589.9	4663.8	9690.3	16872.5	18885.1	19125.2
32.5°	1042.1	991.0	1026.8	1190.2	2278.3	4352.2	9950.8	17919.7	20208.1	20376.7
35°	725.4	761.1	842.9	1031.9	1992.2	4025.3	10017.2	19074.1	21464.8	21638.5
37.5°	669.2	689.6	756.0	878.6	1752.1	3841.4	9925.3	19917.0	22767.4	23007.5
40°	623.2	648.7	684.5	796.9	1573.3	3637.1	9797.6	20678.1	23564.3	24156.8
42.5°	587.4	607.9	638.5	761.1	1420.1	3432.7	9618.8	21750.8	24279.4	24795.3
45°	546.6	577.2	613.0	740.7	1333.2	3294.8	9486.0	21684.4	24693.2	24969.0
47.5°	505.7	556.8	597.7	689.6	1307.7	3228.4	9542.2	21434.1	24356.0	24167.0
50°	464.8	531.3	602.8	572.1	1246.4	3095.6	9608.6	21776.4	23554.0	23518.3
52.5°	429.1	505.7	561.9	470.0	1108.5	2967.9	10252.2	22225.9	24121.1	23646.0
55°	378.0	454.6	449.5	378.0	899.0	2870.8	10757.9	22236.1	23737.9	23916.7
57.5°	342.3	403.5	352.5	316.7	664.1	2400.9	9935.5	18645.0	20320.5	20637.2
60°	316.7	393.3	265.6	250.3	434.2	1731.7	8673.8	14441.0	16152.2	16749.9
62.5°	291.2	372.9	209.4	204.3	301.4	1231.1	7131.1	12086.1	13919.9	14732.1
65°	255.4	265.6	168.6	158.4	214.5	664.1	4342.0	8321.3	10405.5	10706.8
67.5°	209.4	204.3	137.9	127.7	143.0	321.8	1915.6	4168.3	6032.8	6538.5
70°	168.6	168.6	117.5	102.2	102.2	148.1	500.6	1660.2	2727.8	3019.0
72.5°	122.6	127.7	91.9	81.7	76.6	71.5	81.7	332.0	715.2	914.4
75°	107.3	112.4	91.9	71.5	56.2	46.0	35.8	30.6	40.9	66.4
77.5°	117.5	117.5	97.1	66.4	51.1	35.8	20.4	10.2	10.2	5.1
80°	148.1	153.2	127.7	86.8	61.3	40.9	25.5	10.2	5.1	5.1
82.5°	158.4	173.7	143.0	107.3	76.6	46.0	25.5	5.1	0.0	0.0
85°	40.9	66.4	112.4	97.1	76.6	46.0	25.5	5.1	0.0	0.0
87.5°	0.0	5.1	15.3	15.3	20.4	20.4	15.3	5.1	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)