

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: P532889

Luminaire Tested: **GALN-SA8B-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532889  
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-SA8B-735-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 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: 23663 lumens  
Efficiency: N/A  
Efficacy: 72.8 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

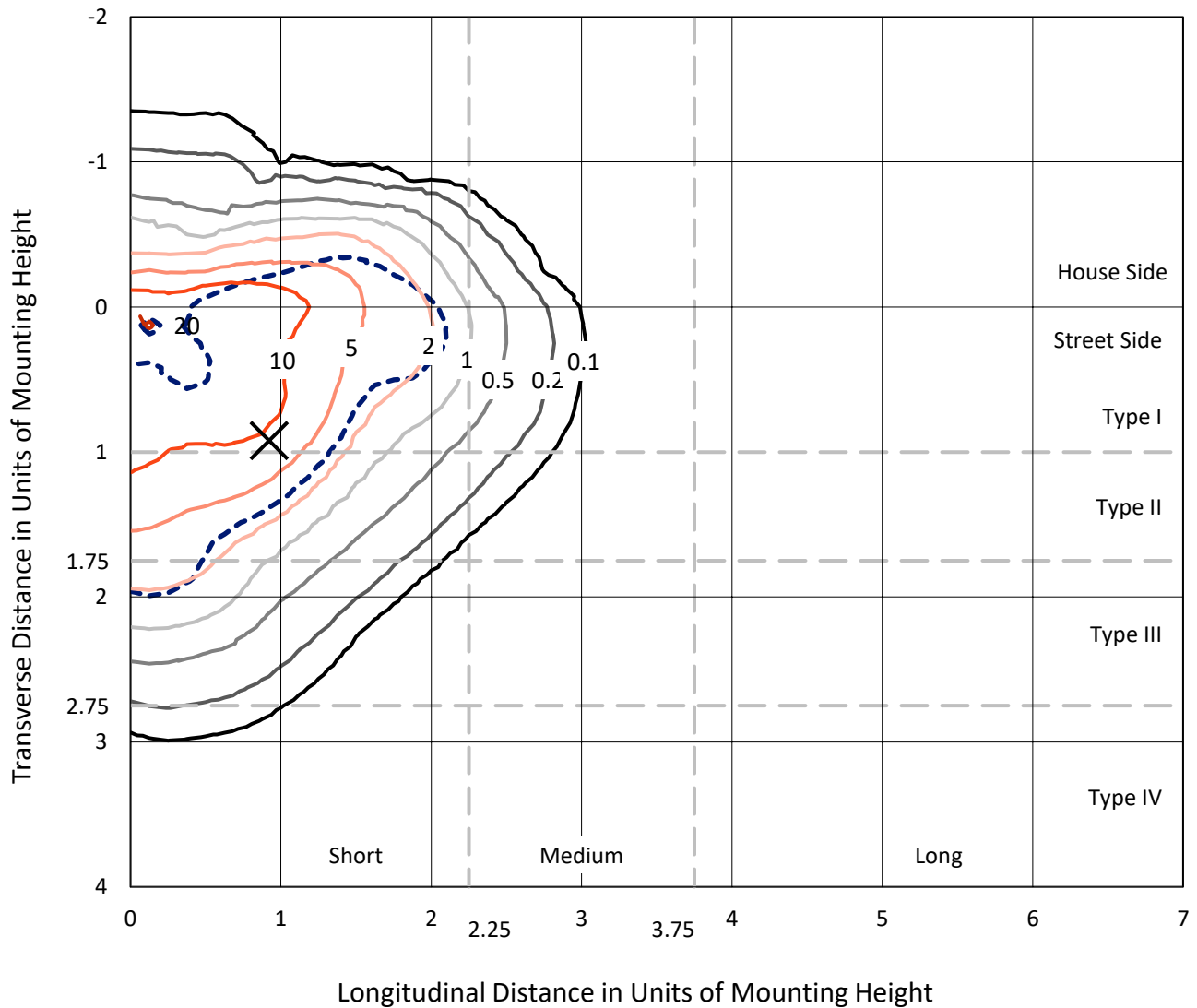
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

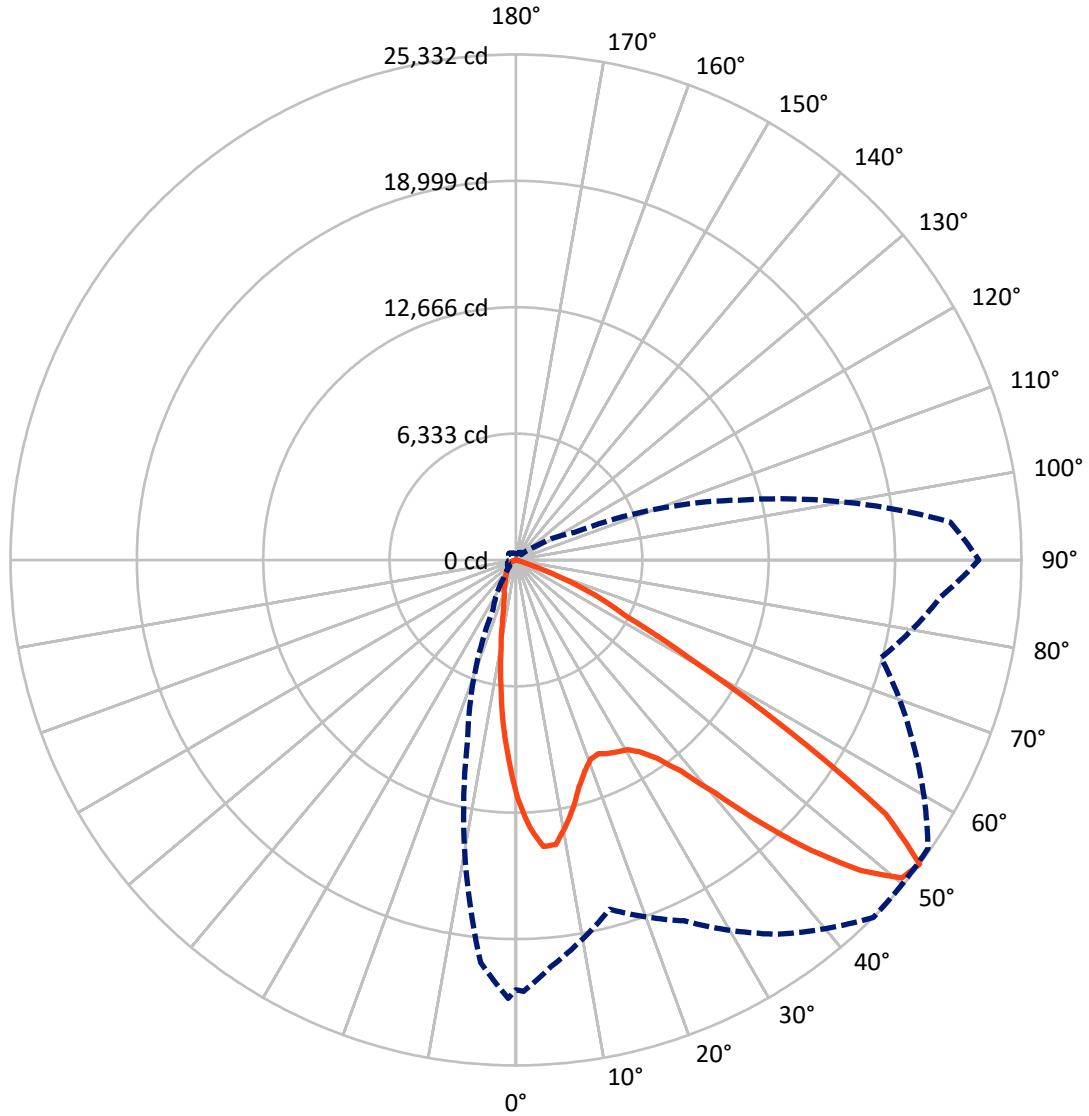
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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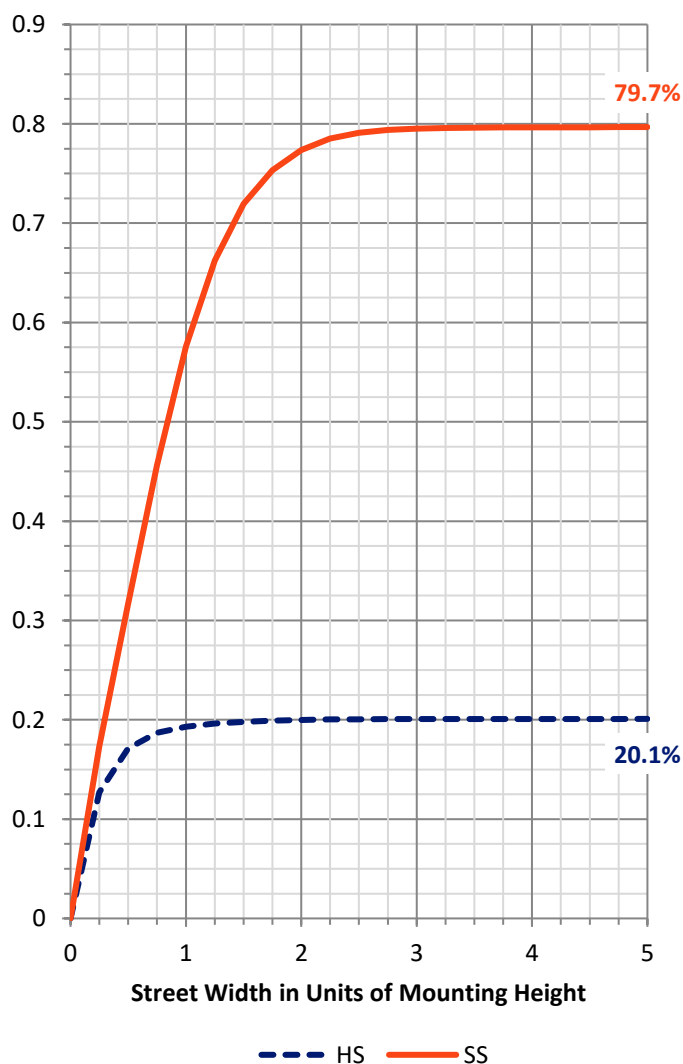
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4802.4	0.0	4802.4
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	18860.6	0.0	18860.6
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	23663.0	0.0	23663.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	875.0	3.7
10°-20°	1726.4	7.3
20°-30°	2627.2	11.1
30°-40°	3926.7	16.6
40°-50°	5592.0	23.6
50°-60°	6011.3	25.4
60°-70°	2663.7	11.3
70°-80°	215.5	0.9
80°-90°	25.1	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°	23663.0	100.0
0°-180°	23663.0	100.0

**Coefficient of Utilization**



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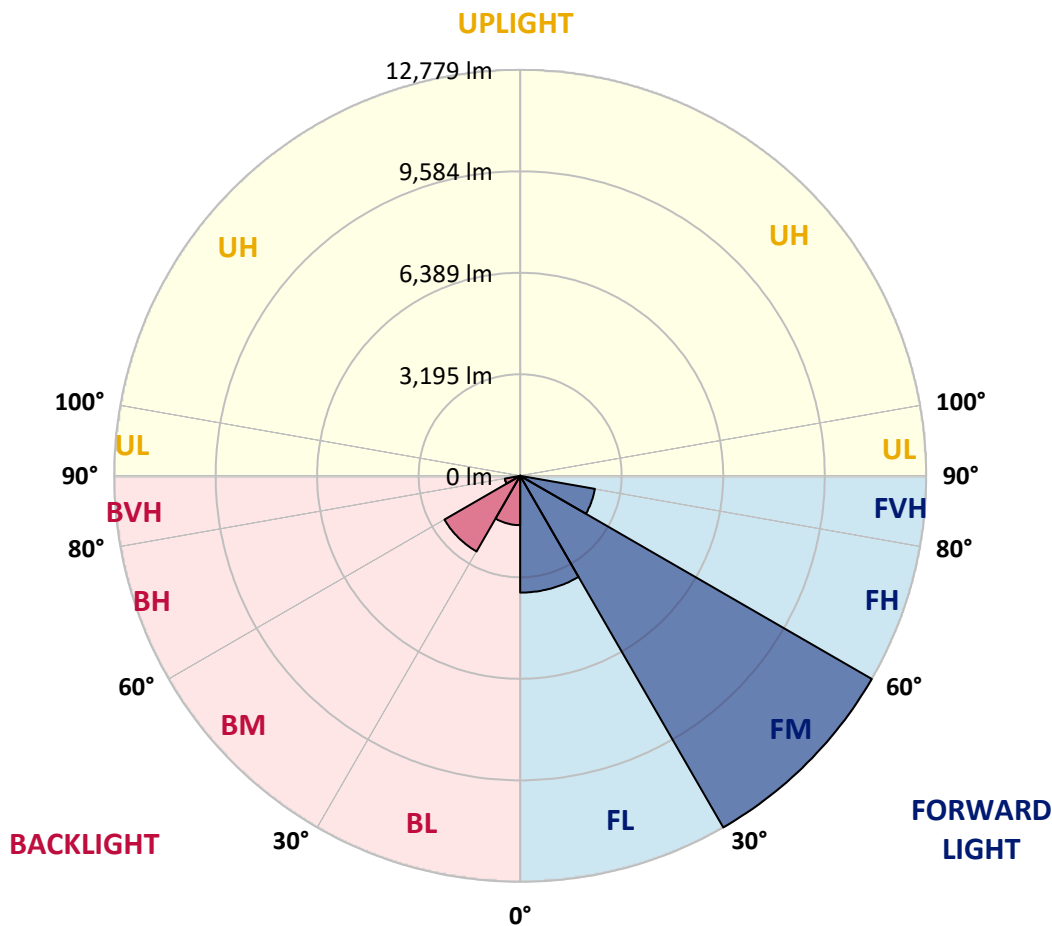
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3675.3	15.5			
FM (30°-60°)	12778.8	54.0			
FH (60°-80°)	2387.9	10.1			G2/5000
FVH (80°-90°)	18.6	0.1			G1/100
BL (0°-30°)	1553.3	6.6	B3/2500		
BM (30°-60°)	2751.2	11.6	B3/5000		
BH (60°-80°)	491.4	2.1	B1/500		G1/500
BVH (80°-90°)	6.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2
2.5°	12696.4	12733.6	12938.4	13194.3	13329.3	13636.5	13422.4	13478.2	13361.9	12952.3	12631.2
5°	12310.1	12305.4	12566.0	13199.0	13799.4	14409.1	14427.7	14101.9	13529.4	12901.1	12002.9
7.5°	11146.5	11328.1	11598.0	12607.9	13720.3	14176.4	14395.1	14013.5	13133.8	12235.6	11262.9
10°	10266.9	10360.0	10816.1	12035.5	12849.9	13459.6	13594.6	13375.9	12701.0	11579.4	10490.3
12.5°	9759.6	9806.2	10341.4	11365.3	12226.3	12677.7	12742.9	12845.3	12361.3	11309.4	10001.6
15°	9764.3	9801.5	10522.9	11379.2	11719.0	11598.0	11812.1	11807.4	12016.9	11258.2	10411.2
17.5°	10467.0	10508.9	11160.5	11584.0	11435.1	11151.2	11137.2	11351.3	11793.5	11895.9	11030.2
20°	11677.1	11774.8	12254.2	12230.9	11393.2	10820.8	10662.5	10825.4	11854.0	12435.7	12277.5
22.5°	13306.0	13441.0	13776.1	13133.8	11584.0	10597.4	10546.2	10862.6	12254.2	13641.1	13692.3
25°	15195.6	15423.7	15586.5	14762.8	12263.5	10983.6	10741.6	11286.2	12794.1	14948.9	15493.5
27.5°	16447.5	16684.9	16647.7	15470.2	12719.6	11086.0	10881.3	11388.6	13264.2	15260.8	16433.6
30°	17424.9	17569.2	17829.8	15851.8	13175.7	11374.6	11025.5	11821.4	13417.7	15800.6	17569.2
32.5°	18565.2	18662.9	18681.5	16526.7	13878.5	11737.6	11472.3	12361.3	14097.2	16317.2	18574.5
35°	19714.7	19859.0	19556.5	17359.8	14311.3	12412.5	12217.0	13296.7	14641.8	16852.5	19682.1
37.5°	20962.0	21036.5	20338.4	17704.2	14930.3	13510.8	13403.8	14306.7	15586.5	17820.5	20910.8
40°	22009.2	22079.0	21171.4	18127.7	15581.9	15046.7	15321.3	16233.5	16871.1	18448.8	21525.2
42.5°	22590.9	22753.8	21450.7	17895.0	16889.7	16787.3	18006.7	18327.8	18360.4	18625.7	22074.3
45°	22749.2	22674.7	20989.9	18085.8	18034.6	19649.6	20757.2	21180.8	19840.4	18951.4	22214.0
47.5°	22018.5	22116.2	20310.4	17918.2	19537.9	21818.4	23251.8	24038.4	20943.4	18667.6	21869.6
50°	21427.4	21301.8	20091.7	17797.2	19942.8	22842.3	25053.0	25229.8	21958.0	19016.6	21492.6
52.5°	21543.8	21622.9	20440.8	18118.4	19952.1	22902.8	25332.2	25211.2	21990.6	18937.5	21357.6
55°	21790.4	21441.4	20291.8	17410.9	18616.4	21213.3	22483.9	22297.7	20296.5	18095.1	21027.2
57.5°	18802.5	19342.4	18658.2	15544.7	15279.4	15982.1	15958.9	16531.3	15139.8	15572.6	19142.3
60°	15260.8	15353.8	15609.8	13296.7	10574.1	10332.1	9997.0	9634.0	10187.8	13315.3	17410.9
62.5°	13422.4	13310.7	14222.9	12096.0	7465.2	6250.4	6194.6	6418.0	7860.8	12701.0	16331.2
65°	9755.0	9894.6	10555.5	9387.3	5603.5	4770.4	4686.7	5347.5	6362.1	10178.5	12463.6
67.5°	5957.2	6227.2	6287.7	5789.7	3802.4	3020.5	2899.5	3499.9	4593.6	6585.5	7306.9
70°	2750.6	3076.4	3383.5	3160.1	2201.4	1242.6	1172.8	1470.7	2317.7	3788.4	3876.9
72.5°	833.1	837.7	1172.8	1224.0	712.1	279.2	246.7	325.8	786.5	1251.9	1317.1
75°	60.5	65.2	158.2	181.5	135.0	69.8	74.5	88.4	167.5	279.2	209.4
77.5°	4.7	4.7	4.7	23.3	41.9	46.5	60.5	69.8	88.4	102.4	93.1
80°	4.7	0.0	4.7	18.6	32.6	46.5	55.8	65.2	69.8	79.1	69.8
82.5°	0.0	0.0	0.0	14.0	32.6	46.5	51.2	69.8	79.1	93.1	79.1
85°	0.0	0.0	0.0	14.0	32.6	51.2	46.5	23.3	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°	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2
2.5°	12687.0	12505.5	12091.3	11881.9	11388.6	11318.7	10834.7	10755.6	10592.7	10504.3	10290.2
5°	11607.3	11388.6	10713.7	10145.9	9485.0	9024.3	8670.6	8349.4	8163.3	7991.1	8070.2
7.5°	10727.7	10090.1	9340.8	8391.3	7628.1	7134.7	6594.8	6152.7	5892.1	5715.2	5757.1
10°	9806.2	9392.0	8349.4	7283.6	6362.1	6013.1	5589.6	5249.8	4882.1	4565.7	4416.7
12.5°	9517.6	8903.3	7595.5	6511.1	5813.0	5473.2	4989.2	4598.2	4128.2	3741.9	3606.9
15°	9568.8	8977.7	7390.7	6231.8	5408.1	4821.6	4244.5	3760.5	3243.9	2974.0	2834.3
17.5°	10401.9	9378.0	7525.7	5938.6	4844.9	4030.4	3318.4	2704.0	2317.7	2038.5	1978.0
20°	11425.8	10243.6	7814.2	5724.5	4384.2	3206.7	2424.8	1894.2	1573.1	1526.5	1512.6
22.5°	12924.4	11658.5	8433.2	5580.3	3821.0	2499.2	1661.5	1377.6	1289.2	1279.9	1284.5
25°	15018.7	13431.7	9108.1	5459.2	3397.5	1926.8	1359.0	1168.2	1140.3	1126.3	1149.6
27.5°	15926.3	14502.1	9466.4	5198.6	3011.2	1736.0	1340.4	1158.9	1079.7	1056.5	1070.4
30°	17047.9	15214.2	10029.6	4751.8	2443.4	1428.8	1251.9	1261.3	1224.0	1107.7	1070.4
32.5°	18537.2	16103.1	10313.5	4435.3	2182.8	1182.1	916.9	842.4	940.1	958.7	991.3
35°	19491.3	17006.0	10457.7	4249.2	2047.8	1009.9	777.2	707.4	684.2	688.8	707.4
37.5°	21264.5	18225.4	10639.2	4053.7	1945.4	879.6	702.8	637.6	605.0	605.0	623.6
40°	22325.7	19193.5	10885.9	3946.7	1843.0	800.5	637.6	581.8	553.8	553.8	563.1
42.5°	22590.9	19672.8	10802.1	3909.4	1726.7	781.9	581.8	539.9	507.3	502.6	498.0
45°	23065.7	20403.5	10816.1	3867.5	1605.7	712.1	549.2	502.6	456.1	451.4	446.8
47.5°	23586.9	20929.4	10844.0	3704.7	1489.3	595.7	572.5	465.4	409.6	400.3	400.3
50°	23140.1	21348.3	11086.0	3541.8	1340.4	484.0	563.1	437.5	363.0	349.1	353.7
52.5°	23196.0	21841.6	11598.0	3313.7	1154.2	386.3	456.1	414.2	330.4	307.2	311.8
55°	22302.4	21320.4	11667.8	3071.7	902.9	297.9	349.1	363.0	279.2	269.9	269.9
57.5°	19198.1	18053.2	10294.8	2489.9	595.7	246.7	251.3	316.5	242.0	232.7	237.4
60°	16428.9	14492.8	8284.3	1642.9	372.3	195.5	181.5	321.1	214.1	209.4	223.4
62.5°	14976.9	11909.8	6283.0	1019.2	256.0	148.9	125.7	260.6	186.2	186.2	204.8
65°	10820.8	8000.4	3653.5	535.2	181.5	116.4	93.1	148.9	153.6	158.2	167.5
67.5°	6701.9	4039.7	1540.5	260.6	121.0	79.1	60.5	93.1	102.4	102.4	111.7
70°	3309.1	1610.3	511.9	148.9	93.1	65.2	41.9	51.2	51.2	46.5	51.2
72.5°	1023.9	484.0	130.3	93.1	65.2	41.9	23.3	18.6	9.3	0.0	4.7
75°	116.4	93.1	83.8	65.2	41.9	18.6	4.7	0.0	0.0	0.0	0.0
77.5°	69.8	79.1	79.1	65.2	41.9	14.0	0.0	0.0	0.0	0.0	0.0
80°	55.8	60.5	65.2	60.5	37.2	18.6	0.0	0.0	0.0	0.0	0.0
82.5°	69.8	79.1	88.4	79.1	51.2	23.3	9.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	14.0	4.7	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°	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2
2.5°	10201.8	10099.4	10243.6	10029.6	10024.9	10029.6	9969.1	9913.2	10001.6	10239.0	10262.3
5°	7786.3	8005.0	8074.8	8302.9	8177.2	7991.1	8028.3	7902.6	8209.8	8344.8	8237.7
7.5°	5668.7	5654.7	6124.8	6152.7	6213.2	6217.9	6208.6	5961.9	5710.6	5766.4	5934.0
10°	4398.1	4160.8	4388.8	4365.5	4514.5	4472.6	4533.1	4267.8	4356.2	4356.2	4463.3
12.5°	3583.6	3332.3	3290.4	3229.9	3290.4	3313.7	3337.0	3285.8	3434.7	3504.5	3579.0
15°	2736.6	2597.0	2559.7	2443.4	2462.0	2527.2	2583.0	2606.3	2559.7	2666.8	2676.1
17.5°	1987.3	1982.6	2005.9	2001.3	1982.6	1968.7	1964.0	1903.5	1884.9	1894.2	1931.4
20°	1507.9	1545.2	1624.3	1703.4	1745.3	1694.1	1624.3	1521.9	1480.0	1489.3	1494.0
22.5°	1289.2	1345.0	1452.1	1540.5	1582.4	1489.3	1363.6	1275.2	1256.6	1251.9	1247.3
25°	1168.2	1233.3	1312.5	1340.4	1335.7	1279.9	1186.8	1149.6	1140.3	1130.9	1089.1
27.5°	1103.0	1126.3	1140.3	1172.8	1186.8	1149.6	1126.3	1070.4	1061.1	1061.1	1033.2
30°	1065.8	1051.8	1070.4	1047.2	1065.8	1037.9	1042.5	1042.5	1019.2	1028.6	1028.6
32.5°	991.3	996.0	996.0	949.4	963.4	930.8	963.4	991.3	996.0	1000.6	1037.9
35°	726.0	809.8	851.7	851.7	865.7	842.4	837.7	805.2	763.3	721.4	702.8
37.5°	637.6	670.2	726.0	758.6	781.9	763.3	721.4	670.2	646.9	628.3	609.7
40°	567.8	595.7	633.0	670.2	716.7	693.5	628.3	605.0	577.1	577.1	558.5
42.5°	511.9	525.9	549.2	605.0	656.2	609.7	563.1	544.5	530.6	525.9	521.3
45°	460.8	465.4	488.7	535.2	595.7	549.2	502.6	479.4	484.0	488.7	484.0
47.5°	414.2	423.5	437.5	493.3	530.6	507.3	456.1	442.1	442.1	442.1	446.8
50°	358.4	381.6	409.6	456.1	484.0	470.1	428.2	409.6	400.3	400.3	404.9
52.5°	321.1	339.7	377.0	432.8	470.1	446.8	404.9	377.0	358.4	353.7	363.0
55°	279.2	311.8	372.3	414.2	465.4	442.1	395.6	363.0	330.4	325.8	325.8
57.5°	251.3	302.5	358.4	409.6	451.4	432.8	395.6	353.7	311.8	307.2	307.2
60°	237.4	293.2	349.1	395.6	451.4	423.5	390.9	344.4	297.9	297.9	293.2
62.5°	223.4	274.6	330.4	377.0	432.8	409.6	377.0	330.4	283.9	283.9	274.6
65°	186.2	237.4	274.6	316.5	377.0	353.7	321.1	288.6	251.3	242.0	246.7
67.5°	130.3	162.9	200.1	242.0	279.2	269.9	256.0	232.7	200.1	195.5	190.8
70°	65.2	88.4	121.0	162.9	195.5	186.2	176.9	158.2	139.6	135.0	135.0
72.5°	9.3	27.9	51.2	74.5	102.4	107.0	102.4	97.7	93.1	88.4	93.1
75°	0.0	0.0	0.0	18.6	41.9	51.2	60.5	69.8	69.8	60.5	74.5
77.5°	0.0	0.0	0.0	0.0	4.7	23.3	46.5	60.5	74.5	65.2	88.4
80°	0.0	0.0	0.0	0.0	4.7	27.9	46.5	65.2	74.5	65.2	93.1
82.5°	0.0	0.0	0.0	0.0	4.7	32.6	46.5	60.5	69.8	65.2	83.8
85°	0.0	0.0	0.0	0.0	14.0	27.9	18.6	9.3	4.7	4.7	14.0
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: P532889

CATALOG NUMBER: GALN-SA8B-735-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2	11998.2
2.5°	10392.6	10723.0	11076.7	11211.7	11630.6	11947.0	12161.1	12621.9	12691.7	12696.4
5°	8349.4	8517.0	9122.0	9405.9	10029.6	10513.6	11030.2	11774.8	12272.8	12310.1
7.5°	5934.0	6399.4	6655.3	7395.3	8163.3	8921.9	9689.8	10555.5	11132.6	11146.5
10°	4775.1	5077.6	5533.7	6087.5	6734.5	7507.0	8530.9	9536.2	10122.6	10266.9
12.5°	3844.3	4374.8	4896.1	5468.6	5961.9	6543.6	7646.7	8987.0	9471.1	9759.6
15°	2960.0	3444.0	4058.4	4728.6	5287.0	6064.3	7320.9	8852.1	9666.5	9764.3
17.5°	2182.8	2615.6	3183.4	3816.4	4654.1	5757.1	7376.7	9536.2	10304.2	10467.0
20°	1568.4	1819.7	2266.5	3001.9	4067.7	5398.7	7432.6	10229.7	11397.9	11677.1
22.5°	1242.6	1345.0	1638.2	2289.8	3411.4	5021.8	7828.2	11556.1	12901.1	13306.0
25°	1079.7	1135.6	1275.2	1805.8	2997.2	4984.5	8461.1	13147.8	14902.4	15195.6
27.5°	1042.5	1051.8	1172.8	1656.9	2773.8	4737.9	8703.1	14278.7	16149.7	16447.5
30°	1098.4	1247.3	1256.6	1400.9	2359.6	4249.2	8828.8	15372.5	17206.2	17424.9
32.5°	949.4	902.9	935.5	1084.4	2075.7	3965.3	9066.2	16326.5	18411.6	18565.2
35°	660.9	693.5	767.9	940.1	1815.1	3667.4	9126.7	17378.4	19556.5	19714.7
37.5°	609.7	628.3	688.8	800.5	1596.4	3499.9	9042.9	18146.3	20743.3	20962.0
40°	567.8	591.1	623.6	726.0	1433.5	3313.7	8926.5	18839.8	21469.3	22009.2
42.5°	535.2	553.8	581.8	693.5	1293.8	3127.5	8763.6	19817.1	22120.9	22590.9
45°	498.0	525.9	558.5	674.8	1214.7	3001.9	8642.6	19756.6	22497.9	22749.2
47.5°	460.8	507.3	544.5	628.3	1191.4	2941.4	8693.8	19528.6	22190.7	22018.5
50°	423.5	484.0	549.2	521.3	1135.6	2820.4	8754.3	19840.4	21460.0	21427.4
52.5°	390.9	460.8	511.9	428.2	1009.9	2704.0	9340.8	20249.9	21976.6	21543.8
55°	344.4	414.2	409.6	344.4	819.1	2615.6	9801.5	20259.2	21627.6	21790.4
57.5°	311.8	367.7	321.1	288.6	605.0	2187.4	9052.2	16987.4	18514.0	18802.5
60°	288.6	358.4	242.0	228.1	395.6	1577.7	7902.6	13157.1	14716.2	15260.8
62.5°	265.3	339.7	190.8	186.2	274.6	1121.6	6497.1	11011.6	12682.4	13422.4
65°	232.7	242.0	153.6	144.3	195.5	605.0	3956.0	7581.5	9480.4	9755.0
67.5°	190.8	186.2	125.7	116.4	130.3	293.2	1745.3	3797.7	5496.5	5957.2
70°	153.6	153.6	107.0	93.1	93.1	135.0	456.1	1512.6	2485.3	2750.6
72.5°	111.7	116.4	83.8	74.5	69.8	65.2	74.5	302.5	651.6	833.1
75°	97.7	102.4	83.8	65.2	51.2	41.9	32.6	27.9	37.2	60.5
77.5°	107.0	107.0	88.4	60.5	46.5	32.6	18.6	9.3	9.3	4.7
80°	135.0	139.6	116.4	79.1	55.8	37.2	23.3	9.3	4.7	4.7
82.5°	144.3	158.2	130.3	97.7	69.8	41.9	23.3	4.7	0.0	0.0
85°	37.2	60.5	102.4	88.4	69.8	41.9	23.3	4.7	0.0	0.0
87.5°	0.0	4.7	14.0	14.0	18.6	18.6	14.0	4.7	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)