

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: P529353

Luminaire Tested: **GALN-SA4C-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529353  
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-SA4C-730-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1050mA 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: 14003 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

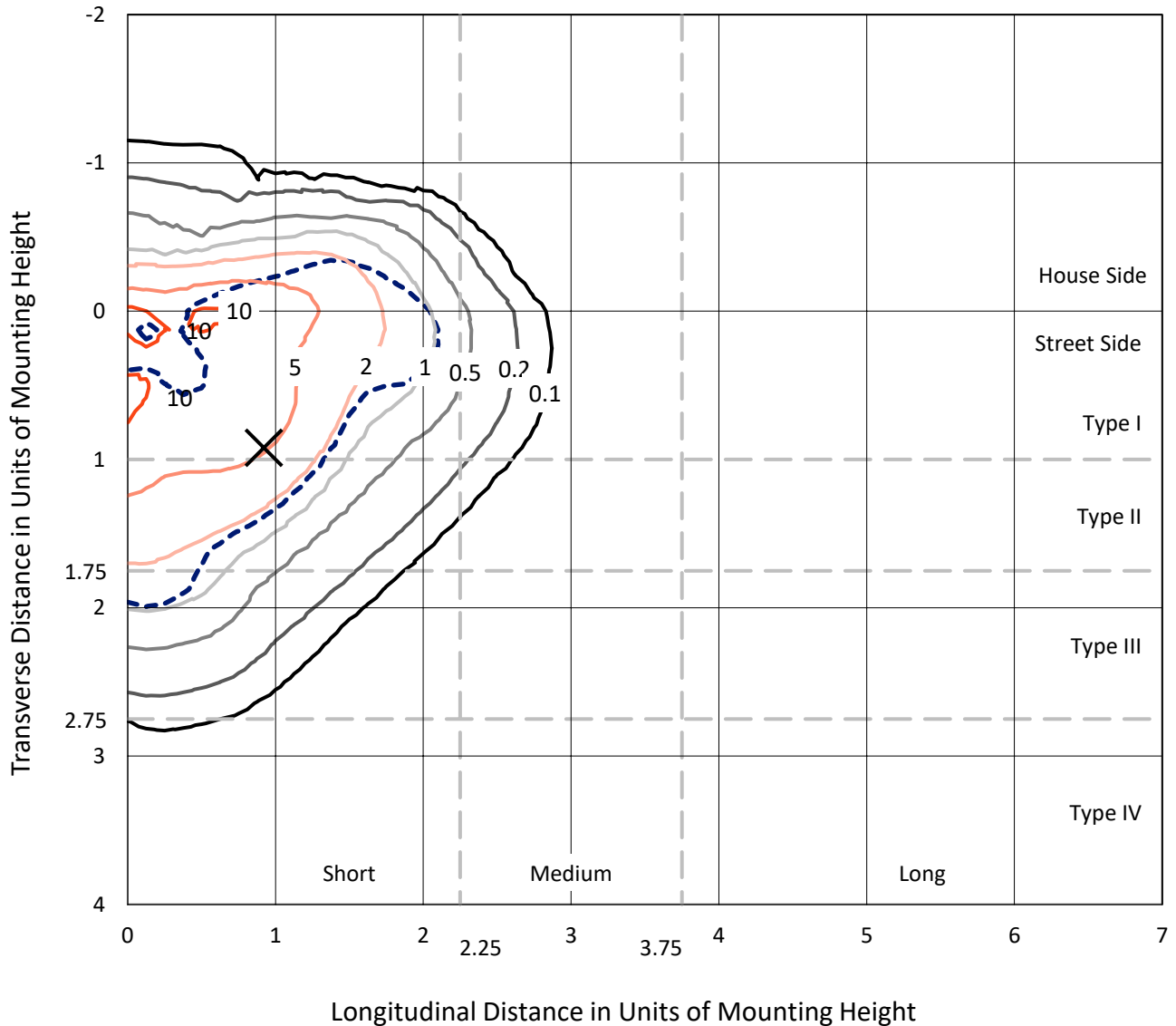
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

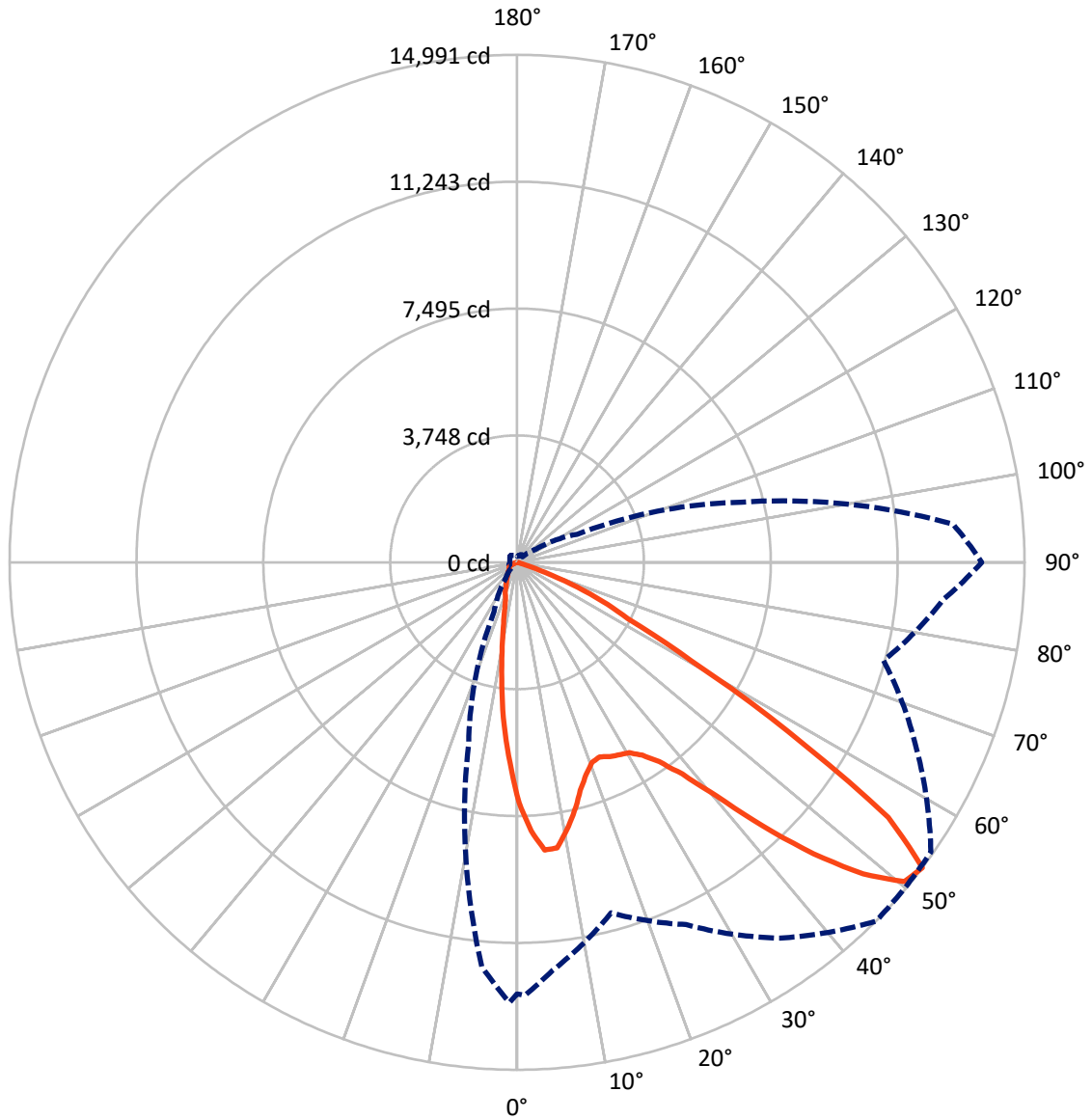
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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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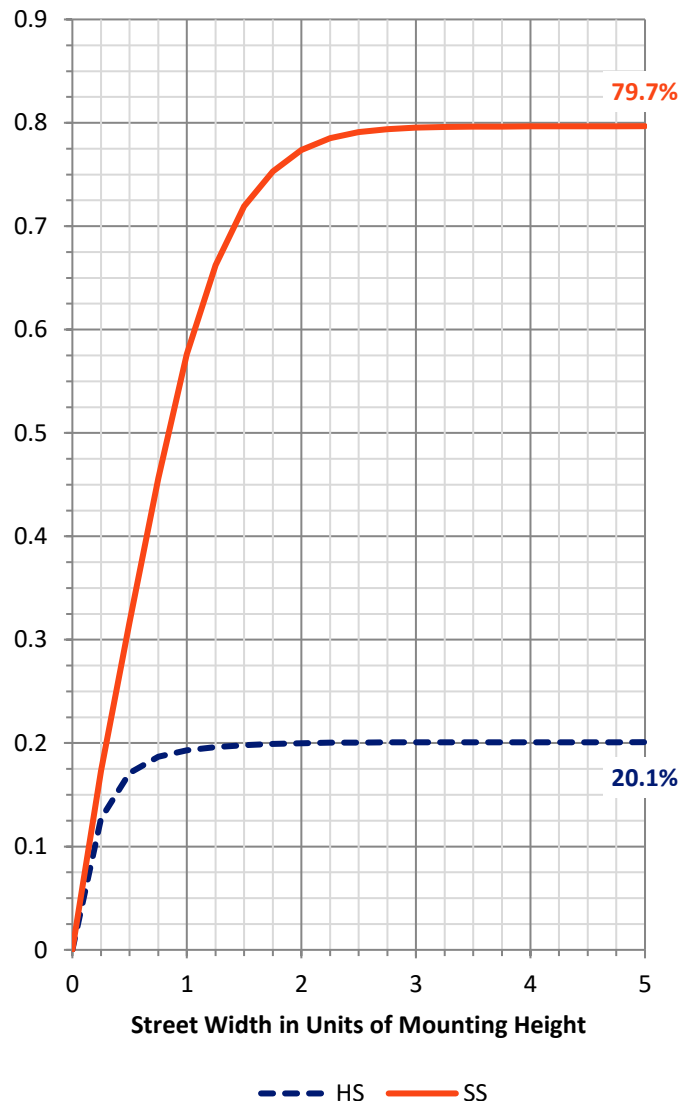
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2841.9	0.0	2841.9
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	11161.1	0.0	11161.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	14003.0	0.0	14003.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.8	3.7
10°-20°	1021.6	7.3
20°-30°	1554.7	11.1
30°-40°	2323.7	16.6
40°-50°	3309.2	23.6
50°-60°	3557.3	25.4
60°-70°	1576.3	11.3
70°-80°	127.5	0.9
80°-90°	14.9	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°	14003.0	100.0
0°-180°	14003.0	100.0

**Coefficient of Utilization**



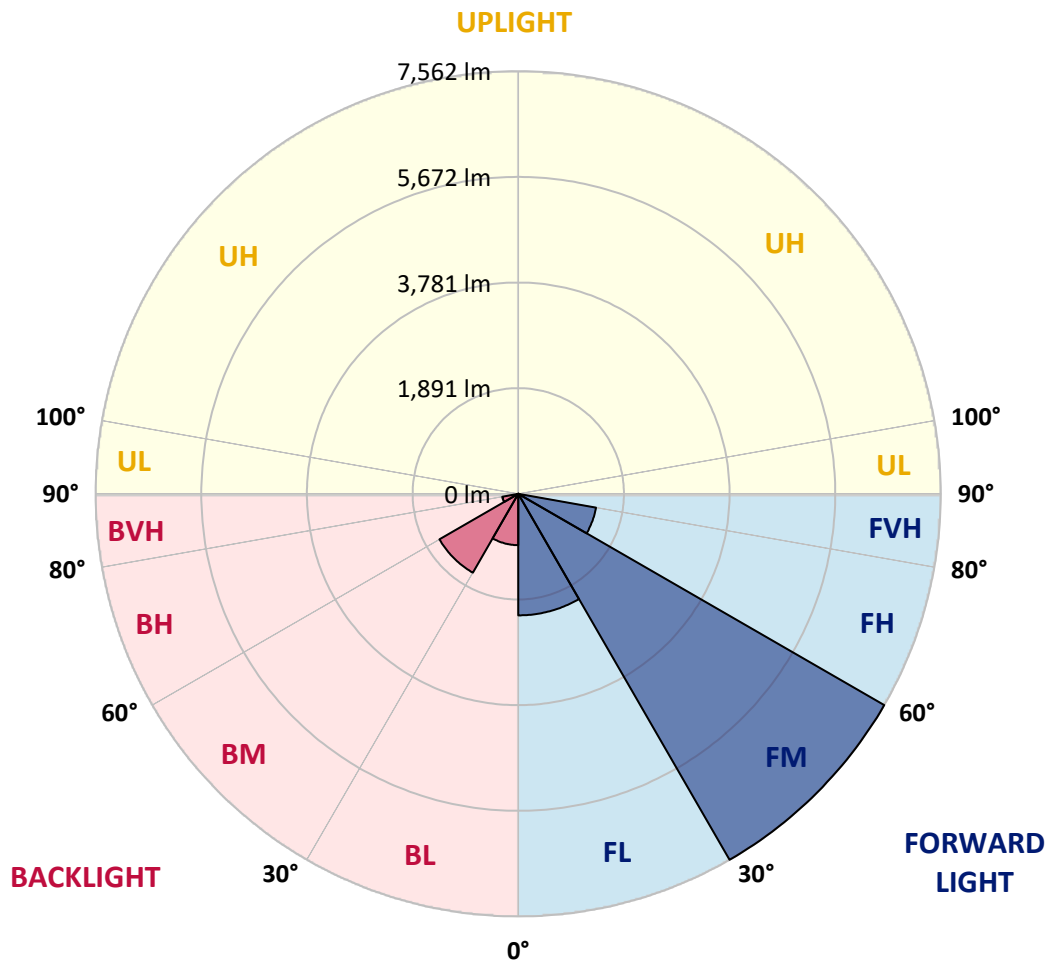
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2175.0	15.5			
FM (30°-60°)	7562.1	54.0			
FH (60°-80°)	1413.1	10.1			G1/1800
FVH (80°-90°)	11.0	0.1			G1/100
BL (0°-30°)	919.2	6.6	B2/1000		
BM (30°-60°)	1628.1	11.6	B2/2500		
BH (60°-80°)	290.8	2.1	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2
2.5°	7513.3	7535.3	7656.5	7808.0	7887.9	8069.6	7942.9	7976.0	7907.1	7664.8	7474.7
5°	7284.7	7281.9	7436.2	7810.7	8166.0	8526.8	8537.8	8345.0	8006.3	7634.5	7102.9
7.5°	6596.2	6703.6	6863.3	7461.0	8119.2	8389.1	8518.6	8292.7	7772.2	7240.6	6665.0
10°	6075.6	6130.7	6400.6	7122.2	7604.2	7965.0	8044.8	7915.4	7516.0	6852.3	6207.8
12.5°	5775.4	5803.0	6119.7	6725.6	7235.1	7502.3	7540.8	7601.4	7315.0	6692.6	5918.6
15°	5778.2	5800.2	6227.1	6733.9	6934.9	6863.3	6990.0	6987.3	7111.2	6662.3	6161.0
17.5°	6194.1	6218.8	6604.4	6855.1	6766.9	6598.9	6590.7	6717.3	6979.0	7039.6	6527.3
20°	6910.1	6968.0	7251.6	7237.9	6742.1	6403.4	6309.7	6406.1	7014.8	7359.1	7265.4
22.5°	7874.1	7954.0	8152.3	7772.2	6855.1	6271.2	6240.9	6428.2	7251.6	8072.4	8102.7
25°	8992.3	9127.2	9223.6	8736.1	7257.2	6499.8	6356.6	6678.8	7571.1	8846.3	9168.5
27.5°	9733.1	9873.6	9851.6	9154.8	7527.1	6560.4	6439.2	6739.4	7849.3	9030.8	9724.9
30°	10311.5	10396.9	10551.1	9380.6	7797.0	6731.1	6524.6	6995.5	7940.2	9350.3	10396.9
32.5°	10986.3	11044.1	11055.1	9779.9	8212.8	6945.9	6789.0	7315.0	8342.3	9656.0	10991.8
35°	11666.5	11751.9	11572.9	10272.9	8469.0	7345.3	7229.6	7868.6	8664.5	9972.7	11647.3
37.5°	12404.6	12448.7	12035.6	10476.7	8835.3	7995.3	7931.9	8466.2	9223.6	10545.6	12374.3
40°	13024.3	13065.6	12528.6	10727.4	9220.9	8904.1	9066.6	9606.4	9983.8	10917.4	12737.9
42.5°	13368.6	13465.0	12693.8	10589.7	9994.8	9934.2	10655.8	10845.8	10865.1	11022.1	13062.9
45°	13462.2	13418.2	12421.2	10702.6	10672.3	11628.0	12283.5	12534.1	11740.9	11214.9	13145.5
47.5°	13029.8	13087.7	12019.1	10603.4	11561.9	12911.4	13759.7	14225.1	12393.6	11046.9	12941.7
50°	12680.1	12605.7	11889.6	10531.8	11801.5	13517.3	14825.5	14930.2	12994.0	11253.4	12718.6
52.5°	12748.9	12795.7	12096.2	10721.9	11807.0	13553.1	14990.8	14919.2	13013.3	11206.6	12638.7
55°	12894.9	12688.3	12008.0	10303.2	11016.6	12553.4	13305.2	13195.1	12010.8	10708.1	12443.2
57.5°	11126.7	11446.2	11041.3	9198.8	9041.8	9457.7	9443.9	9782.7	8959.2	9215.4	11327.8
60°	9030.8	9085.9	9237.4	7868.6	6257.4	6114.2	5915.9	5701.1	6028.8	7879.6	10303.2
62.5°	7942.9	7876.8	8416.7	7158.0	4417.6	3698.8	3665.8	3798.0	4651.7	7516.0	9664.3
65°	5772.7	5855.3	6246.4	5555.1	3316.0	2823.0	2773.4	3164.5	3764.9	6023.3	7375.6
67.5°	3525.3	3685.0	3720.8	3426.1	2250.1	1787.4	1715.8	2071.1	2718.3	3897.1	4324.0
70°	1627.7	1820.5	2002.3	1870.1	1302.7	735.4	694.0	870.3	1371.6	2241.9	2294.2
72.5°	493.0	495.7	694.0	724.3	421.4	165.2	146.0	192.8	465.4	740.9	779.4
75°	35.8	38.6	93.6	107.4	79.9	41.3	44.1	52.3	99.1	165.2	123.9
77.5°	2.8	2.8	2.8	13.8	24.8	27.5	35.8	41.3	52.3	60.6	55.1
80°	2.8	0.0	2.8	11.0	19.3	27.5	33.0	38.6	41.3	46.8	41.3
82.5°	0.0	0.0	0.0	8.3	19.3	27.5	30.3	41.3	46.8	55.1	46.8
85°	0.0	0.0	0.0	8.3	19.3	30.3	27.5	13.8	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°	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2
2.5°	7507.8	7400.4	7155.3	7031.3	6739.4	6698.1	6411.6	6364.8	6268.4	6216.1	6089.4
5°	6868.8	6739.4	6340.0	6004.0	5612.9	5340.3	5131.0	4940.9	4830.8	4728.9	4775.7
7.5°	6348.3	5971.0	5527.6	4965.7	4514.0	4222.1	3902.6	3641.0	3486.7	3382.1	3406.9
10°	5803.0	5557.9	4940.9	4310.2	3764.9	3558.3	3307.7	3106.7	2889.1	2701.8	2613.7
12.5°	5632.2	5268.7	4494.8	3853.0	3439.9	3238.9	2952.4	2721.1	2442.9	2214.3	2134.5
15°	5662.5	5312.7	4373.6	3687.8	3200.3	2853.3	2511.8	2225.3	1919.6	1759.9	1677.3
17.5°	6155.5	5549.6	4453.4	3514.3	2867.1	2385.1	1963.7	1600.2	1371.6	1206.3	1170.5
20°	6761.4	6061.9	4624.2	3387.6	2594.4	1897.6	1434.9	1120.9	930.9	903.4	895.1
22.5°	7648.2	6899.1	4990.5	3302.2	2261.1	1479.0	983.2	815.2	762.9	757.4	760.1
25°	8887.6	7948.4	5389.9	3230.6	2010.5	1140.2	804.2	691.3	674.8	666.5	680.3
27.5°	9424.7	8581.9	5601.9	3076.4	1781.9	1027.3	793.2	685.8	639.0	625.2	633.5
30°	10088.4	9003.3	5935.2	2812.0	1445.9	845.5	740.9	746.4	724.3	655.5	633.5
32.5°	10969.7	9529.3	6103.2	2624.7	1291.7	699.6	542.6	498.5	556.3	567.4	586.6
35°	11534.3	10063.6	6188.6	2514.5	1211.8	597.6	459.9	418.6	404.9	407.6	418.6
37.5°	12583.7	10785.2	6296.0	2398.9	1151.2	520.5	415.9	377.3	358.0	358.0	369.1
40°	13211.6	11358.1	6441.9	2335.5	1090.6	473.7	377.3	344.3	327.7	327.7	333.3
42.5°	13368.6	11641.7	6392.4	2313.5	1021.8	462.7	344.3	319.5	300.2	297.4	294.7
45°	13649.5	12074.1	6400.6	2288.7	950.2	421.4	325.0	297.4	269.9	267.2	264.4
47.5°	13958.0	12385.4	6417.1	2192.3	881.3	352.5	338.8	275.4	242.4	236.9	236.9
50°	13693.6	12633.2	6560.4	2095.9	793.2	286.4	333.3	258.9	214.8	206.6	209.3
52.5°	13726.6	12925.2	6863.3	1960.9	683.0	228.6	269.9	245.1	195.5	181.8	184.5
55°	13197.8	12616.7	6904.6	1817.7	534.3	176.3	206.6	214.8	165.2	159.7	159.7
57.5°	11360.8	10683.3	6092.2	1473.5	352.5	146.0	148.7	187.3	143.2	137.7	140.5
60°	9722.1	8576.4	4902.4	972.2	220.3	115.7	107.4	190.0	126.7	123.9	132.2
62.5°	8862.8	7047.8	3718.1	603.2	151.5	88.1	74.4	154.2	110.2	110.2	121.2
65°	6403.4	4734.4	2162.0	316.7	107.4	68.9	55.1	88.1	90.9	93.6	99.1
67.5°	3966.0	2390.6	911.6	154.2	71.6	46.8	35.8	55.1	60.6	60.6	66.1
70°	1958.2	952.9	303.0	88.1	55.1	38.6	24.8	30.3	30.3	27.5	30.3
72.5°	605.9	286.4	77.1	55.1	38.6	24.8	13.8	11.0	5.5	0.0	2.8
75°	68.9	55.1	49.6	38.6	24.8	11.0	2.8	0.0	0.0	0.0	0.0
77.5°	41.3	46.8	46.8	38.6	24.8	8.3	0.0	0.0	0.0	0.0	0.0
80°	33.0	35.8	38.6	35.8	22.0	11.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.3	46.8	52.3	46.8	30.3	13.8	5.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	8.3	2.8	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°	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2
2.5°	6037.1	5976.5	6061.9	5935.2	5932.4	5935.2	5899.4	5866.3	5918.6	6059.1	6072.9
5°	4607.7	4737.1	4778.4	4913.4	4839.0	4728.9	4750.9	4676.5	4858.3	4938.2	4874.8
7.5°	3354.5	3346.3	3624.4	3641.0	3676.8	3679.5	3674.0	3528.1	3379.3	3412.4	3511.5
10°	2602.7	2462.2	2597.2	2583.4	2671.5	2646.7	2682.5	2525.5	2577.9	2577.9	2641.2
12.5°	2120.7	1972.0	1947.2	1911.4	1947.2	1960.9	1974.7	1944.4	2032.6	2073.9	2117.9
15°	1619.4	1536.8	1514.8	1445.9	1456.9	1495.5	1528.5	1542.3	1514.8	1578.1	1583.6
17.5°	1176.0	1173.3	1187.0	1184.3	1173.3	1165.0	1162.2	1126.4	1115.4	1120.9	1143.0
20°	892.3	914.4	961.2	1008.0	1032.8	1002.5	961.2	900.6	875.8	881.3	884.1
22.5°	762.9	795.9	859.3	911.6	936.4	881.3	807.0	754.6	743.6	740.9	738.1
25°	691.3	729.8	776.7	793.2	790.4	757.4	702.3	680.3	674.8	669.3	644.5
27.5°	652.7	666.5	674.8	694.0	702.3	680.3	666.5	633.5	627.9	627.9	611.4
30°	630.7	622.4	633.5	619.7	630.7	614.2	616.9	616.9	603.2	608.7	608.7
32.5°	586.6	589.4	589.4	561.8	570.1	550.8	570.1	586.6	589.4	592.1	614.2
35°	429.6	479.2	504.0	504.0	512.3	498.5	495.7	476.5	451.7	426.9	415.9
37.5°	377.3	396.6	429.6	448.9	462.7	451.7	426.9	396.6	382.8	371.8	360.8
40°	336.0	352.5	374.6	396.6	424.1	410.4	371.8	358.0	341.5	341.5	330.5
42.5°	303.0	311.2	325.0	358.0	388.3	360.8	333.3	322.2	314.0	311.2	308.5
45°	272.7	275.4	289.2	316.7	352.5	325.0	297.4	283.7	286.4	289.2	286.4
47.5°	245.1	250.6	258.9	291.9	314.0	300.2	269.9	261.6	261.6	261.6	264.4
50°	212.1	225.8	242.4	269.9	286.4	278.2	253.4	242.4	236.9	236.9	239.6
52.5°	190.0	201.1	223.1	256.1	278.2	264.4	239.6	223.1	212.1	209.3	214.8
55°	165.2	184.5	220.3	245.1	275.4	261.6	234.1	214.8	195.5	192.8	192.8
57.5°	148.7	179.0	212.1	242.4	267.2	256.1	234.1	209.3	184.5	181.8	181.8
60°	140.5	173.5	206.6	234.1	267.2	250.6	231.3	203.8	176.3	176.3	173.5
62.5°	132.2	162.5	195.5	223.1	256.1	242.4	223.1	195.5	168.0	168.0	162.5
65°	110.2	140.5	162.5	187.3	223.1	209.3	190.0	170.8	148.7	143.2	146.0
67.5°	77.1	96.4	118.4	143.2	165.2	159.7	151.5	137.7	118.4	115.7	112.9
70°	38.6	52.3	71.6	96.4	115.7	110.2	104.7	93.6	82.6	79.9	79.9
72.5°	5.5	16.5	30.3	44.1	60.6	63.3	60.6	57.8	55.1	52.3	55.1
75°	0.0	0.0	0.0	11.0	24.8	30.3	35.8	41.3	41.3	35.8	44.1
77.5°	0.0	0.0	0.0	0.0	2.8	13.8	27.5	35.8	44.1	38.6	52.3
80°	0.0	0.0	0.0	0.0	2.8	16.5	27.5	38.6	44.1	38.6	55.1
82.5°	0.0	0.0	0.0	0.0	2.8	19.3	27.5	35.8	41.3	38.6	49.6
85°	0.0	0.0	0.0	0.0	8.3	16.5	11.0	5.5	2.8	2.8	8.3
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: P529353  
 CATALOG NUMBER: GALN-SA4C-730-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2	7100.2
2.5°	6150.0	6345.5	6554.9	6634.7	6882.6	7069.9	7196.6	7469.2	7510.5	7513.3
5°	4940.9	5040.1	5398.1	5566.1	5935.2	6221.6	6527.3	6968.0	7262.7	7284.7
7.5°	3511.5	3786.9	3938.4	4376.3	4830.8	5279.7	5734.1	6246.4	6587.9	6596.2
10°	2825.7	3004.8	3274.7	3602.4	3985.2	4442.4	5048.3	5643.2	5990.3	6075.6
12.5°	2274.9	2588.9	2897.4	3236.1	3528.1	3872.3	4525.1	5318.2	5604.7	5775.4
15°	1751.6	2038.1	2401.6	2798.2	3128.7	3588.6	4332.3	5238.4	5720.3	5778.2
17.5°	1291.7	1547.8	1883.8	2258.4	2754.1	3406.9	4365.3	5643.2	6097.7	6194.1
20°	928.1	1076.9	1341.3	1776.4	2407.1	3194.8	4398.4	6053.6	6744.9	6910.1
22.5°	735.4	795.9	969.5	1355.0	2018.8	2971.7	4632.5	6838.5	7634.5	7874.1
25°	639.0	672.0	754.6	1068.6	1773.7	2949.7	5007.0	7780.4	8818.8	8992.3
27.5°	616.9	622.4	694.0	980.5	1641.5	2803.7	5150.2	8449.7	9556.9	9733.1
30°	650.0	738.1	743.6	829.0	1396.3	2514.5	5224.6	9096.9	10182.1	10311.5
32.5°	561.8	534.3	553.6	641.7	1228.3	2346.5	5365.1	9661.5	10895.4	10986.3
35°	391.1	410.4	454.4	556.3	1074.1	2170.3	5400.9	10284.0	11572.9	11666.5
37.5°	360.8	371.8	407.6	473.7	944.7	2071.1	5351.3	10738.4	12275.2	12404.6
40°	336.0	349.8	369.1	429.6	848.3	1960.9	5282.4	11148.8	12704.8	13024.3
42.5°	316.7	327.7	344.3	410.4	765.7	1850.8	5186.0	11727.1	13090.4	13368.6
45°	294.7	311.2	330.5	399.4	718.8	1776.4	5114.4	11691.3	13313.5	13462.2
47.5°	272.7	300.2	322.2	371.8	705.1	1740.6	5144.7	11556.4	13131.7	13029.8
50°	250.6	286.4	325.0	308.5	672.0	1669.0	5180.5	11740.9	12699.3	12680.1
52.5°	231.3	272.7	303.0	253.4	597.6	1600.2	5527.6	11983.3	13005.0	12748.9
55°	203.8	245.1	242.4	203.8	484.7	1547.8	5800.2	11988.8	12798.5	12894.9
57.5°	184.5	217.6	190.0	170.8	358.0	1294.4	5356.8	10052.6	10956.0	11126.7
60°	170.8	212.1	143.2	135.0	234.1	933.7	4676.5	7786.0	8708.6	9030.8
62.5°	157.0	201.1	112.9	110.2	162.5	663.7	3844.8	6516.3	7505.0	7942.9
65°	137.7	143.2	90.9	85.4	115.7	358.0	2341.0	4486.5	5610.2	5772.7
67.5°	112.9	110.2	74.4	68.9	77.1	173.5	1032.8	2247.4	3252.6	3525.3
70°	90.9	90.9	63.3	55.1	55.1	79.9	269.9	895.1	1470.7	1627.7
72.5°	66.1	68.9	49.6	44.1	41.3	38.6	44.1	179.0	385.6	493.0
75°	57.8	60.6	49.6	38.6	30.3	24.8	19.3	16.5	22.0	35.8
77.5°	63.3	63.3	52.3	35.8	27.5	19.3	11.0	5.5	5.5	2.8
80°	79.9	82.6	68.9	46.8	33.0	22.0	13.8	5.5	2.8	2.8
82.5°	85.4	93.6	77.1	57.8	41.3	24.8	13.8	2.8	0.0	0.0
85°	22.0	35.8	60.6	52.3	41.3	24.8	13.8	2.8	0.0	0.0
87.5°	0.0	2.8	8.3	8.3	11.0	11.0	8.3	2.8	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)