

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: P529821

Luminaire Tested: **GALN-SA5A-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529821
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-SA5A-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 11530 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

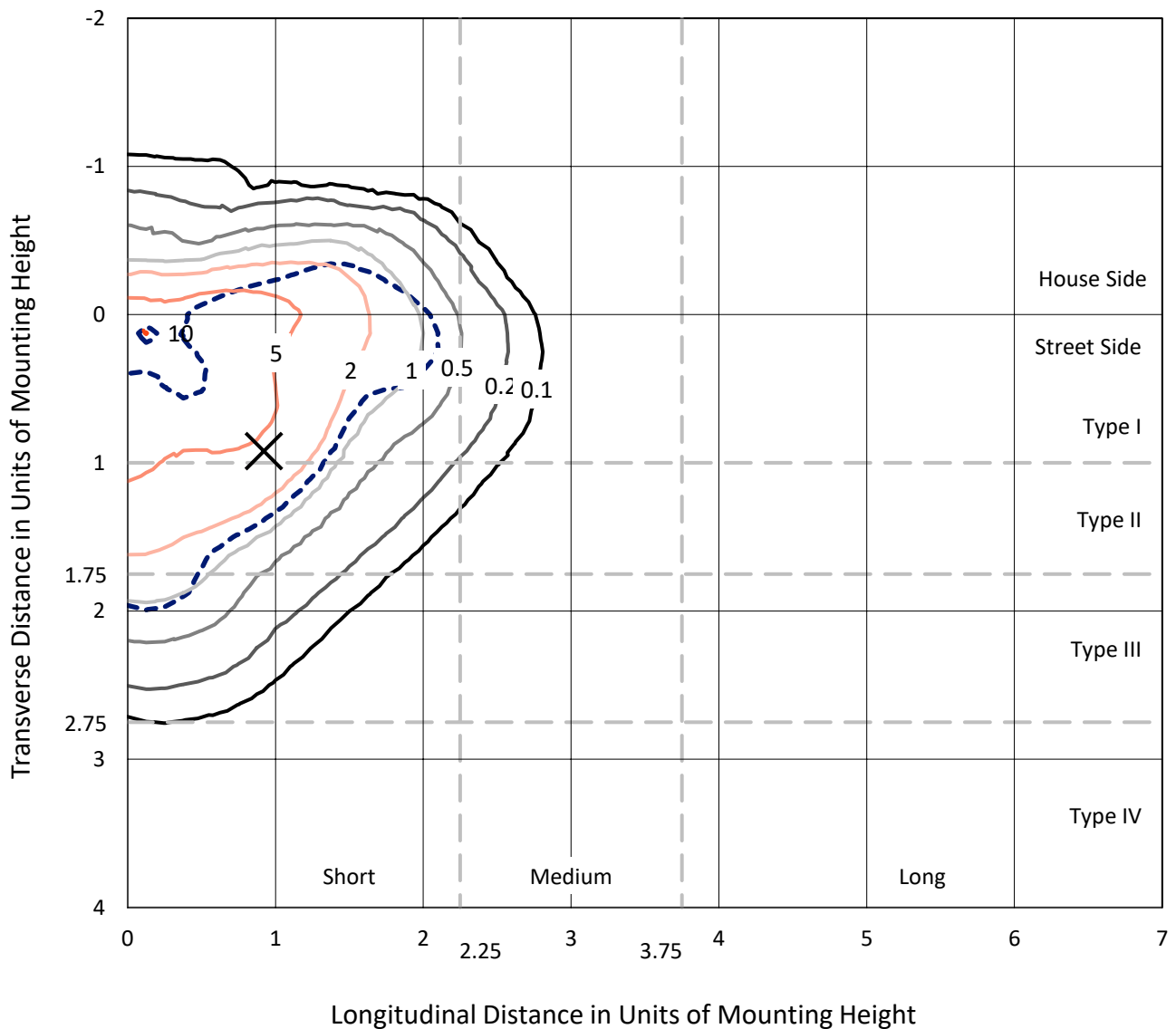
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

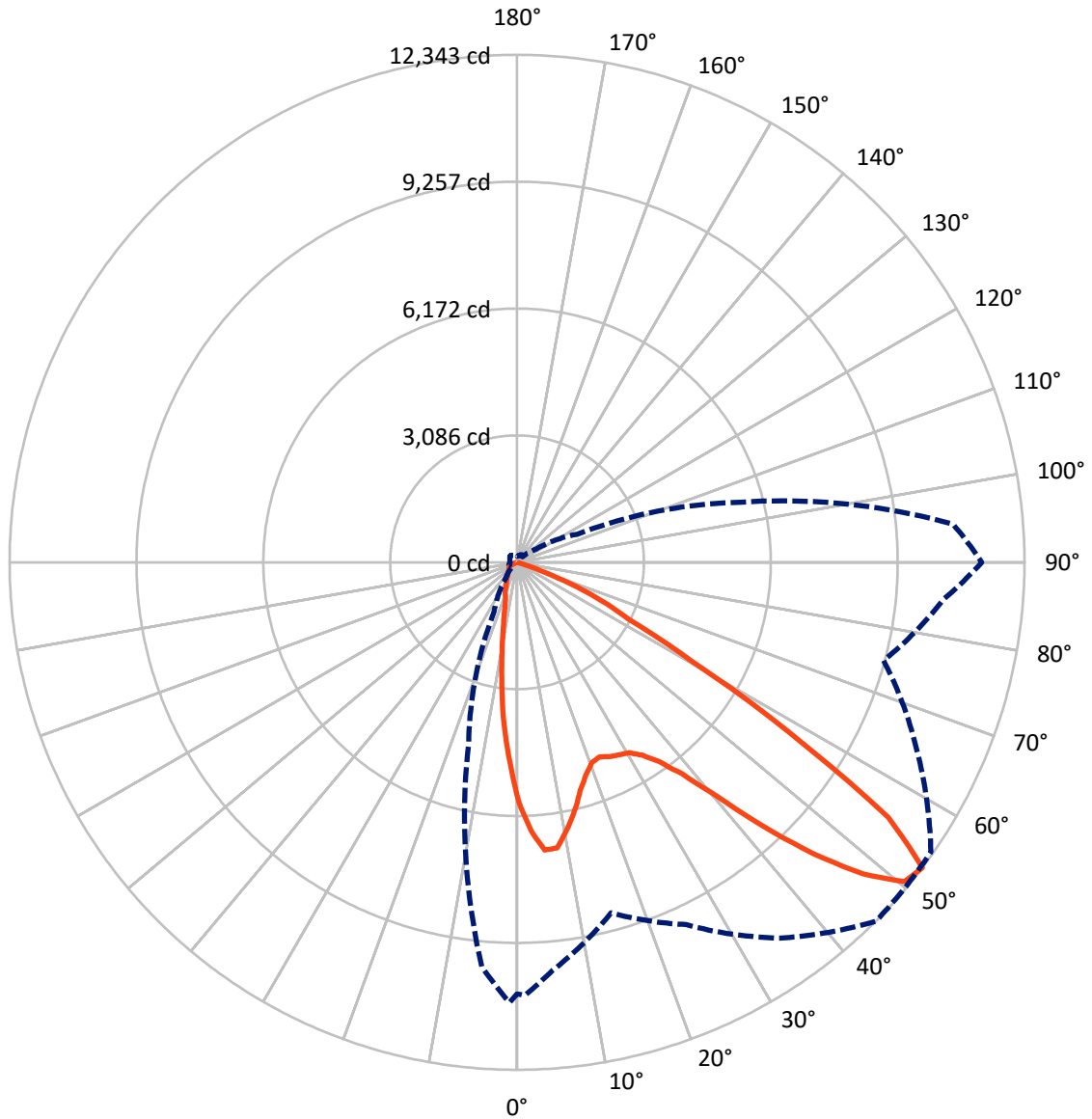
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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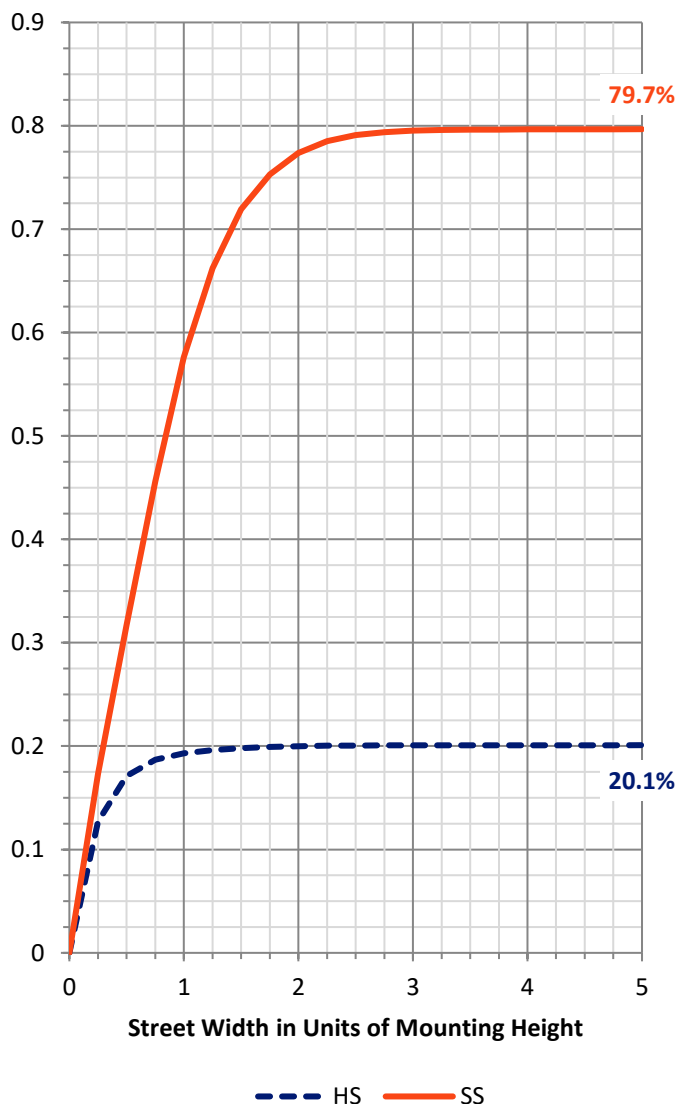
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2340.0	0.0	2340.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	9190.0	0.0	9190.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	11530.0	0.0	11530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.4	3.7
10°-20°	841.2	7.3
20°-30°	1280.1	11.1
30°-40°	1913.3	16.6
40°-50°	2724.8	23.6
50°-60°	2929.0	25.4
60°-70°	1297.9	11.3
70°-80°	105.0	0.9
80°-90°	12.2	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°	11530.0	100.0
0°-180°	11530.0	100.0

Coefficient of Utilization

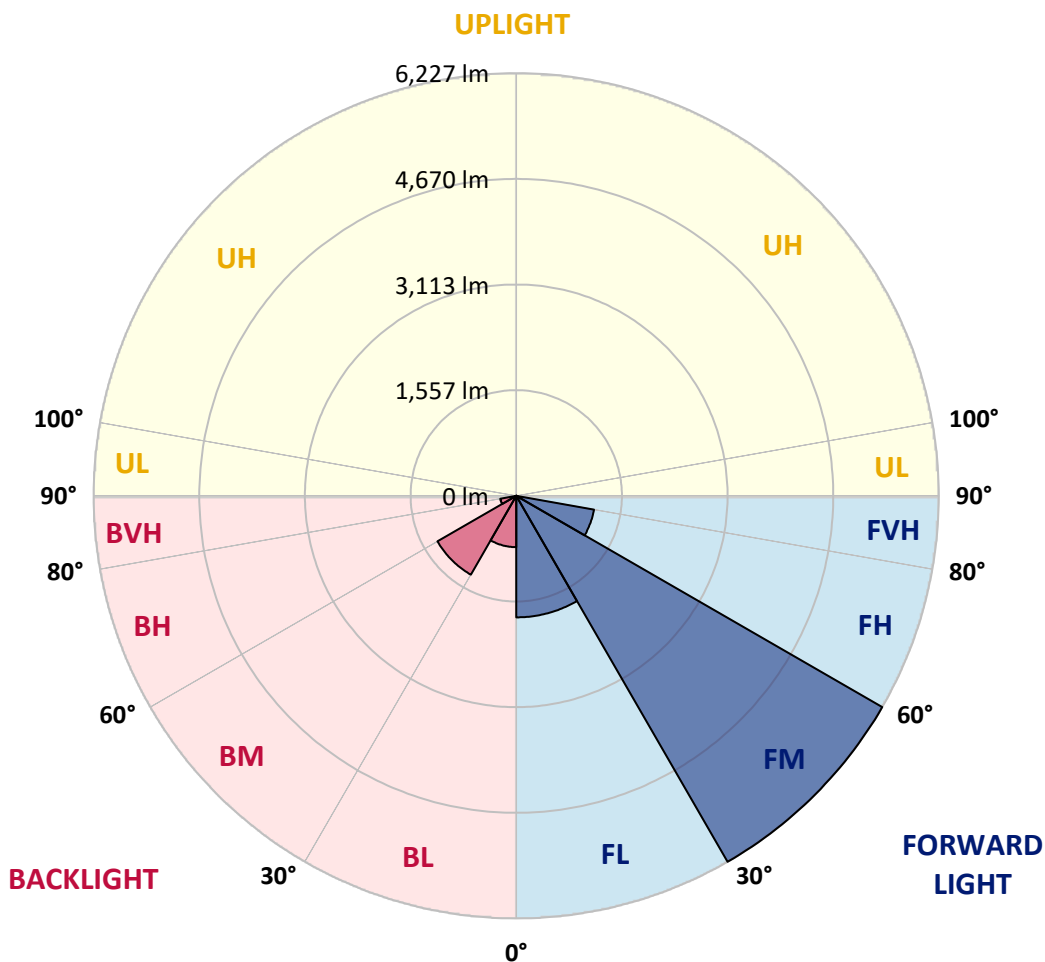


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1790.8	15.5			
FM (30°-60°)	6226.6	54.0			
FH (60°-80°)	1163.5	10.1			G1/1800
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	756.9	6.6	B2/1000		
BM (30°-60°)	1340.6	11.6	B2/2500		
BH (60°-80°)	239.4	2.1	B1/500		G1/500
BVH (80°-90°)	3.2	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°	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2
2.5°	6186.4	6204.5	6304.3	6429.1	6494.8	6644.5	6540.2	6567.4	6510.7	6311.1	6154.7
5°	5998.2	5995.9	6122.9	6431.3	6723.9	7020.9	7030.0	6871.3	6592.3	6286.2	5848.5
7.5°	5431.2	5519.7	5651.2	6143.3	6685.3	6907.6	7014.1	6828.2	6399.6	5961.9	5487.9
10°	5002.6	5048.0	5270.2	5864.4	6261.2	6558.3	6624.1	6517.5	6188.7	5642.1	5111.5
12.5°	4755.5	4778.1	5038.9	5537.8	5957.4	6177.3	6209.1	6259.0	6023.1	5510.6	4873.4
15°	4757.7	4775.9	5127.4	5544.6	5710.2	5651.2	5755.5	5753.3	5855.3	5485.7	5072.9
17.5°	5100.2	5120.6	5438.1	5644.4	5571.8	5433.5	5426.7	5531.0	5746.5	5796.4	5374.6
20°	5689.8	5737.4	5971.0	5959.6	5551.4	5272.5	5195.4	5274.8	5775.9	6059.4	5982.3
22.5°	6483.5	6549.2	6712.5	6399.6	5644.4	5163.7	5138.7	5292.9	5971.0	6646.8	6671.7
25°	7404.2	7515.3	7594.7	7193.3	5975.5	5351.9	5234.0	5499.3	6234.0	7284.0	7549.3
27.5°	8014.2	8129.9	8111.7	7538.0	6197.7	5401.8	5302.0	5549.2	6463.1	7435.9	8007.4
30°	8490.4	8560.7	8687.7	7723.9	6420.0	5542.4	5372.3	5760.1	6537.9	7699.0	8560.7
32.5°	9046.0	9093.7	9102.7	8052.8	6762.4	5719.3	5590.0	6023.1	6869.0	7950.7	9050.6
35°	9606.2	9676.5	9529.1	8458.7	6973.3	6048.1	5952.8	6478.9	7134.3	8211.5	9590.3
37.5°	10213.9	10250.2	9910.0	8626.5	7274.9	6583.3	6531.1	6971.0	7594.7	8683.2	10189.0
40°	10724.2	10758.2	10316.0	8832.9	7592.4	7331.6	7465.4	7909.9	8220.6	8989.3	10488.3
42.5°	11007.6	11087.0	10452.0	8719.5	8229.6	8179.8	8773.9	8930.4	8946.3	9075.5	10755.9
45°	11084.7	11048.5	10227.5	8812.5	8787.5	9574.4	10114.1	10320.5	9667.4	9234.3	10823.9
47.5°	10728.7	10776.3	9896.4	8730.8	9520.0	10631.2	11329.7	11712.9	10204.9	9095.9	10656.1
50°	10440.7	10379.5	9789.9	8671.9	9717.3	11130.1	12207.3	12293.4	10699.2	9266.0	10472.4
52.5°	10497.4	10535.9	9959.9	8828.3	9721.8	11159.6	12343.3	12284.4	10715.1	9227.5	10406.7
55°	10617.6	10447.5	9887.4	8483.6	9071.0	10336.4	10955.5	10864.8	9889.6	8817.0	10245.7
57.5°	9161.7	9424.7	9091.4	7574.3	7445.0	7787.4	7776.1	8055.0	7377.0	7587.9	9327.2
60°	7435.9	7481.3	7606.0	6478.9	5152.3	5034.4	4871.1	4694.2	4964.1	6488.0	8483.6
62.5°	6540.2	6485.7	6930.2	5893.9	3637.5	3045.6	3018.4	3127.2	3830.2	6188.7	7957.5
65°	4753.2	4821.2	5143.2	4574.0	2730.4	2324.4	2283.6	2605.6	3100.0	4959.6	6073.0
67.5°	2902.7	3034.2	3063.7	2821.1	1852.7	1471.8	1412.8	1705.3	2238.3	3208.9	3560.4
70°	1340.2	1499.0	1648.7	1539.8	1072.6	605.5	571.5	716.6	1129.3	1845.9	1889.0
72.5°	405.9	408.2	571.5	596.4	347.0	136.1	120.2	158.7	383.2	610.0	641.8
75°	29.5	31.7	77.1	88.4	65.8	34.0	36.3	43.1	81.6	136.1	102.0
77.5°	2.3	2.3	2.3	11.3	20.4	22.7	29.5	34.0	43.1	49.9	45.4
80°	2.3	0.0	2.3	9.1	15.9	22.7	27.2	31.7	34.0	38.6	34.0
82.5°	0.0	0.0	0.0	6.8	15.9	22.7	24.9	34.0	38.6	45.4	38.6
85°	0.0	0.0	0.0	6.8	15.9	24.9	22.7	11.3	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°	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2
2.5°	6181.9	6093.4	5891.6	5789.6	5549.2	5515.2	5279.3	5240.8	5161.4	5118.3	5014.0
5°	5655.8	5549.2	5220.3	4943.7	4621.7	4397.2	4224.8	4068.3	3977.6	3893.7	3932.3
7.5°	5227.2	4916.5	4551.4	4088.7	3716.8	3476.5	3213.4	2998.0	2871.0	2784.8	2805.2
10°	4778.1	4576.3	4068.3	3549.0	3100.0	2929.9	2723.6	2558.0	2378.9	2224.7	2152.1
12.5°	4637.5	4338.2	3701.0	3172.6	2832.4	2666.9	2431.0	2240.5	2011.5	1823.3	1757.5
15°	4662.5	4374.5	3601.2	3036.5	2635.1	2349.4	2068.2	1832.3	1580.6	1449.1	1381.1
17.5°	5068.4	4569.5	3666.9	2893.6	2360.7	1963.9	1616.9	1317.6	1129.3	993.3	963.8
20°	5567.3	4991.3	3807.5	2789.3	2136.2	1562.5	1181.5	923.0	766.5	743.8	737.0
22.5°	6297.5	5680.7	4109.2	2719.0	1861.8	1217.8	809.6	671.3	628.2	623.6	625.9
25°	7318.0	6544.7	4438.0	2660.1	1655.5	938.8	662.2	569.2	555.6	548.8	560.1
27.5°	7760.2	7066.3	4612.6	2533.1	1467.2	845.9	653.1	564.7	526.1	514.8	521.6
30°	8306.7	7413.3	4887.0	2315.4	1190.6	696.2	610.0	614.6	596.4	539.7	521.6
32.5°	9032.4	7846.4	5025.3	2161.2	1063.6	576.0	446.7	410.5	458.1	467.2	483.0
35°	9497.3	8286.3	5095.6	2070.5	997.8	492.1	378.7	344.7	333.4	335.6	344.7
37.5°	10361.3	8880.5	5184.1	1975.2	947.9	428.6	342.4	310.7	294.8	294.8	303.9
40°	10878.4	9352.2	5304.3	1923.0	898.0	390.1	310.7	283.5	269.9	269.9	274.4
42.5°	11007.6	9585.8	5263.4	1904.9	841.3	381.0	283.5	263.1	247.2	244.9	242.6
45°	11238.9	9941.8	5270.2	1884.5	782.4	347.0	267.6	244.9	222.2	220.0	217.7
47.5°	11492.9	10198.0	5283.8	1805.1	725.7	290.3	278.9	226.8	199.6	195.0	195.0
50°	11275.2	10402.1	5401.8	1725.8	653.1	235.8	274.4	213.2	176.9	170.1	172.3
52.5°	11302.4	10642.5	5651.2	1614.6	562.4	188.2	222.2	201.8	161.0	149.7	151.9
55°	10867.0	10388.5	5685.2	1496.7	439.9	145.1	170.1	176.9	136.1	131.5	131.5
57.5°	9354.4	8796.6	5016.3	1213.2	290.3	120.2	122.5	154.2	117.9	113.4	115.7
60°	8005.1	7061.8	4036.6	800.5	181.4	95.2	88.4	156.5	104.3	102.0	108.9
62.5°	7297.6	5803.2	3061.5	496.6	124.7	72.6	61.2	127.0	90.7	90.7	99.8
65°	5272.5	3898.3	1780.2	260.8	88.4	56.7	45.4	72.6	74.8	77.1	81.6
67.5°	3265.6	1968.4	750.6	127.0	59.0	38.6	29.5	45.4	49.9	49.9	54.4
70°	1612.4	784.6	249.5	72.6	45.4	31.7	20.4	24.9	24.9	22.7	24.9
72.5°	498.9	235.8	63.5	45.4	31.7	20.4	11.3	9.1	4.5	0.0	2.3
75°	56.7	45.4	40.8	31.7	20.4	9.1	2.3	0.0	0.0	0.0	0.0
77.5°	34.0	38.6	38.6	31.7	20.4	6.8	0.0	0.0	0.0	0.0	0.0
80°	27.2	29.5	31.7	29.5	18.1	9.1	0.0	0.0	0.0	0.0	0.0
82.5°	34.0	38.6	43.1	38.6	24.9	11.3	4.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.8	2.3	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°	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2
2.5°	4970.9	4921.0	4991.3	4887.0	4884.7	4887.0	4857.5	4830.3	4873.4	4989.0	5000.4
5°	3793.9	3900.5	3934.5	4045.7	3984.4	3893.7	3911.9	3850.6	4000.3	4066.1	4013.9
7.5°	2762.1	2755.3	2984.4	2998.0	3027.4	3029.7	3025.2	2905.0	2782.5	2809.7	2891.4
10°	2143.0	2027.4	2138.5	2127.1	2199.7	2179.3	2208.8	2079.5	2122.6	2122.6	2174.8
12.5°	1746.2	1623.7	1603.3	1573.8	1603.3	1614.6	1626.0	1601.0	1673.6	1707.6	1743.9
15°	1333.4	1265.4	1247.3	1190.6	1199.6	1231.4	1258.6	1269.9	1247.3	1299.4	1304.0
17.5°	968.3	966.1	977.4	975.1	966.1	959.3	957.0	927.5	918.4	923.0	941.1
20°	734.7	752.9	791.4	830.0	850.4	825.5	791.4	741.6	721.1	725.7	727.9
22.5°	628.2	655.4	707.5	750.6	771.0	725.7	664.4	621.4	612.3	610.0	607.8
25°	569.2	601.0	639.5	653.1	650.8	623.6	578.3	560.1	555.6	551.1	530.7
27.5°	537.5	548.8	555.6	571.5	578.3	560.1	548.8	521.6	517.0	517.0	503.4
30°	519.3	512.5	521.6	510.2	519.3	505.7	508.0	508.0	496.6	501.2	501.2
32.5°	483.0	485.3	485.3	462.6	469.4	453.5	469.4	483.0	485.3	487.6	505.7
35°	353.8	394.6	415.0	415.0	421.8	410.5	408.2	392.3	371.9	351.5	342.4
37.5°	310.7	326.6	353.8	369.6	381.0	371.9	351.5	326.6	315.2	306.1	297.1
40°	276.7	290.3	308.4	326.6	349.2	337.9	306.1	294.8	281.2	281.2	272.1
42.5°	249.5	256.3	267.6	294.8	319.8	297.1	274.4	265.3	258.5	256.3	254.0
45°	224.5	226.8	238.1	260.8	290.3	267.6	244.9	233.6	235.8	238.1	235.8
47.5°	201.8	206.4	213.2	240.4	258.5	247.2	222.2	215.4	215.4	215.4	217.7
50°	174.6	186.0	199.6	222.2	235.8	229.0	208.6	199.6	195.0	195.0	197.3
52.5°	156.5	165.5	183.7	210.9	229.0	217.7	197.3	183.7	174.6	172.3	176.9
55°	136.1	151.9	181.4	201.8	226.8	215.4	192.8	176.9	161.0	158.7	158.7
57.5°	122.5	147.4	174.6	199.6	220.0	210.9	192.8	172.3	151.9	149.7	149.7
60°	115.7	142.9	170.1	192.8	220.0	206.4	190.5	167.8	145.1	145.1	142.9
62.5°	108.9	133.8	161.0	183.7	210.9	199.6	183.7	161.0	138.3	138.3	133.8
65°	90.7	115.7	133.8	154.2	183.7	172.3	156.5	140.6	122.5	117.9	120.2
67.5°	63.5	79.4	97.5	117.9	136.1	131.5	124.7	113.4	97.5	95.2	93.0
70°	31.7	43.1	59.0	79.4	95.2	90.7	86.2	77.1	68.0	65.8	65.8
72.5°	4.5	13.6	24.9	36.3	49.9	52.2	49.9	47.6	45.4	43.1	45.4
75°	0.0	0.0	0.0	9.1	20.4	24.9	29.5	34.0	34.0	29.5	36.3
77.5°	0.0	0.0	0.0	0.0	2.3	11.3	22.7	29.5	36.3	31.7	43.1
80°	0.0	0.0	0.0	0.0	2.3	13.6	22.7	31.7	36.3	31.7	45.4
82.5°	0.0	0.0	0.0	0.0	2.3	15.9	22.7	29.5	34.0	31.7	40.8
85°	0.0	0.0	0.0	0.0	6.8	13.6	9.1	4.5	2.3	2.3	6.8
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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CATALOG NUMBER: GALN-SA5A-730-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2	5846.2
2.5°	5063.9	5224.9	5397.2	5463.0	5667.1	5821.3	5925.6	6150.1	6184.1	6186.4
5°	4068.3	4150.0	4444.8	4583.1	4887.0	5122.8	5374.6	5737.4	5980.0	5998.2
7.5°	2891.4	3118.1	3242.9	3603.4	3977.6	4347.3	4721.4	5143.2	5424.4	5431.2
10°	2326.7	2474.1	2696.3	2966.2	3281.4	3657.9	4156.8	4646.6	4932.3	5002.6
12.5°	1873.2	2131.7	2385.7	2664.6	2905.0	3188.4	3725.9	4379.0	4614.9	4755.5
15°	1442.3	1678.1	1977.5	2304.0	2576.2	2954.9	3567.2	4313.3	4710.1	4757.7
17.5°	1063.6	1274.5	1551.1	1859.6	2267.7	2805.2	3594.4	4646.6	5020.8	5100.2
20°	764.2	886.7	1104.4	1462.7	1982.0	2630.6	3621.6	4984.5	5553.7	5689.8
22.5°	605.5	655.4	798.2	1115.7	1662.3	2446.9	3814.3	5630.8	6286.2	6483.5
25°	526.1	553.3	621.4	879.9	1460.4	2428.8	4122.8	6406.4	7261.3	7404.2
27.5°	508.0	512.5	571.5	807.3	1351.6	2308.6	4240.7	6957.4	7869.1	8014.2
30°	535.2	607.8	612.3	682.6	1149.7	2070.5	4301.9	7490.4	8383.9	8490.4
32.5°	462.6	439.9	455.8	528.4	1011.4	1932.1	4417.6	7955.2	8971.2	9046.0
35°	322.0	337.9	374.2	458.1	884.4	1787.0	4447.0	8467.8	9529.1	9606.2
37.5°	297.1	306.1	335.6	390.1	777.8	1705.3	4406.2	8841.9	10107.3	10213.9
40°	276.7	288.0	303.9	353.8	698.5	1614.6	4349.5	9179.8	10461.1	10724.2
42.5°	260.8	269.9	283.5	337.9	630.4	1523.9	4270.2	9656.1	10778.6	11007.6
45°	242.6	256.3	272.1	328.8	591.9	1462.7	4211.2	9626.6	10962.3	11084.7
47.5°	224.5	247.2	265.3	306.1	580.5	1433.2	4236.1	9515.5	10812.6	10728.7
50°	206.4	235.8	267.6	254.0	553.3	1374.3	4265.6	9667.4	10456.6	10440.7
52.5°	190.5	224.5	249.5	208.6	492.1	1317.6	4551.4	9867.0	10708.3	10497.4
55°	167.8	201.8	199.6	167.8	399.1	1274.5	4775.9	9871.5	10538.2	10617.6
57.5°	151.9	179.2	156.5	140.6	294.8	1065.8	4410.8	8277.3	9021.1	9161.7
60°	140.6	174.6	117.9	111.1	192.8	768.8	3850.6	6410.9	7170.6	7435.9
62.5°	129.3	165.5	93.0	90.7	133.8	546.5	3165.8	5365.5	6179.6	6540.2
65°	113.4	117.9	74.8	70.3	95.2	294.8	1927.6	3694.2	4619.4	4753.2
67.5°	93.0	90.7	61.2	56.7	63.5	142.9	850.4	1850.5	2678.2	2902.7
70°	74.8	74.8	52.2	45.4	45.4	65.8	222.2	737.0	1211.0	1340.2
72.5°	54.4	56.7	40.8	36.3	34.0	31.7	36.3	147.4	317.5	405.9
75°	47.6	49.9	40.8	31.7	24.9	20.4	15.9	13.6	18.1	29.5
77.5°	52.2	52.2	43.1	29.5	22.7	15.9	9.1	4.5	4.5	2.3
80°	65.8	68.0	56.7	38.6	27.2	18.1	11.3	4.5	2.3	2.3
82.5°	70.3	77.1	63.5	47.6	34.0	20.4	11.3	2.3	0.0	0.0
85°	18.1	29.5	49.9	43.1	34.0	20.4	11.3	2.3	0.0	0.0
87.5°	0.0	2.3	6.8	6.8	9.1	9.1	6.8	2.3	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)