

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: P529459

Luminaire Tested: **GALN-SA4C-760-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529459
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-SA4C-760-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA 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: 15375 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

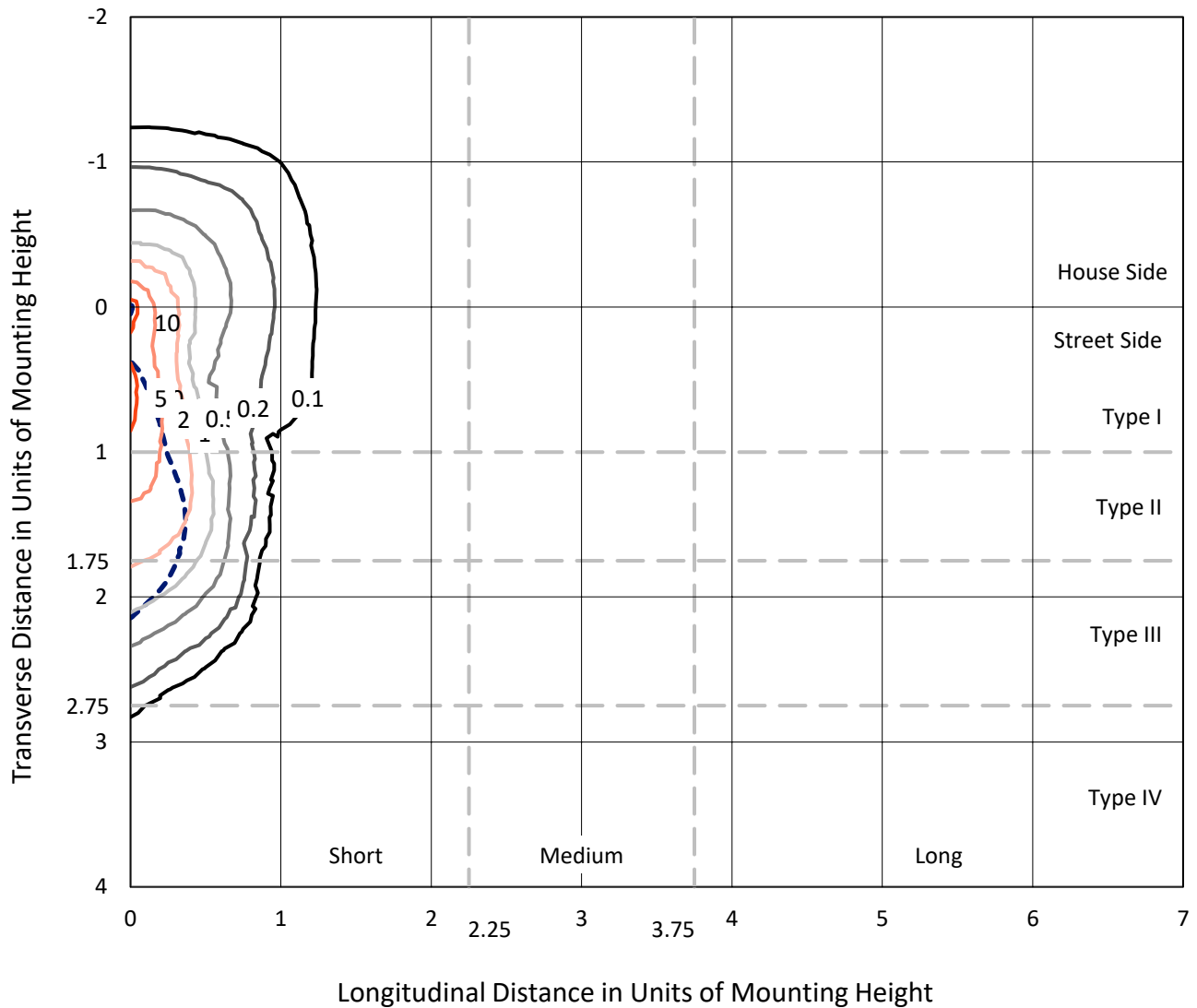
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

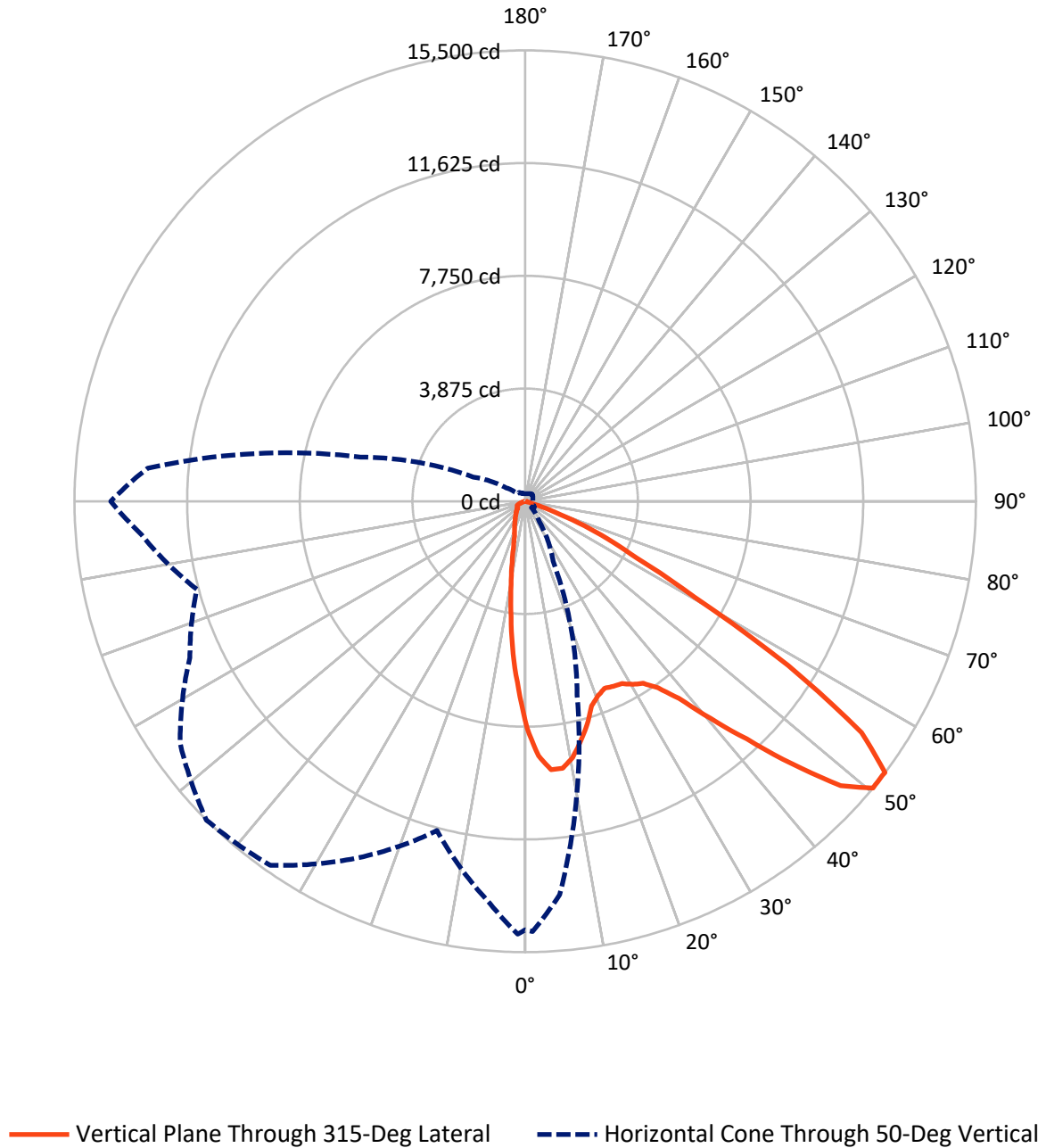
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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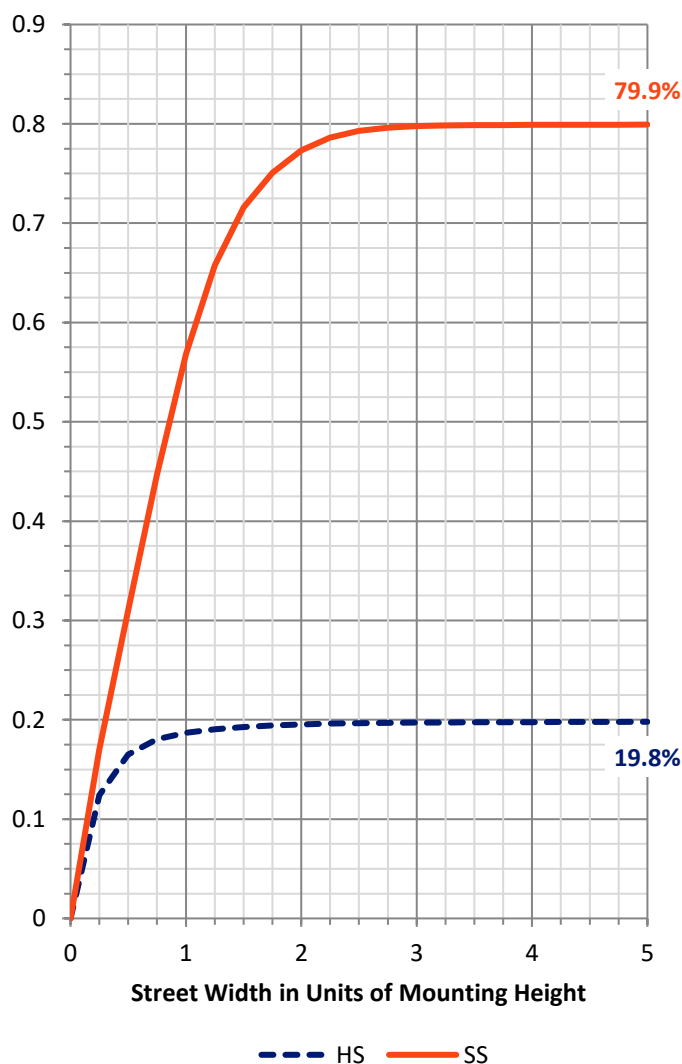
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3079.6	0.0	3079.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	12295.4	0.0	12295.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	15375.0	0.0	15375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.3	3.7
10°-20°	1129.5	7.3
20°-30°	1696.9	11.0
30°-40°	2547.0	16.6
40°-50°	3579.6	23.3
50°-60°	3861.2	25.1
60°-70°	1792.7	11.7
70°-80°	168.7	1.1
80°-90°	31.1	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°	15375.0	100.0
0°-180°	15375.0	100.0

Coefficient of Utilization



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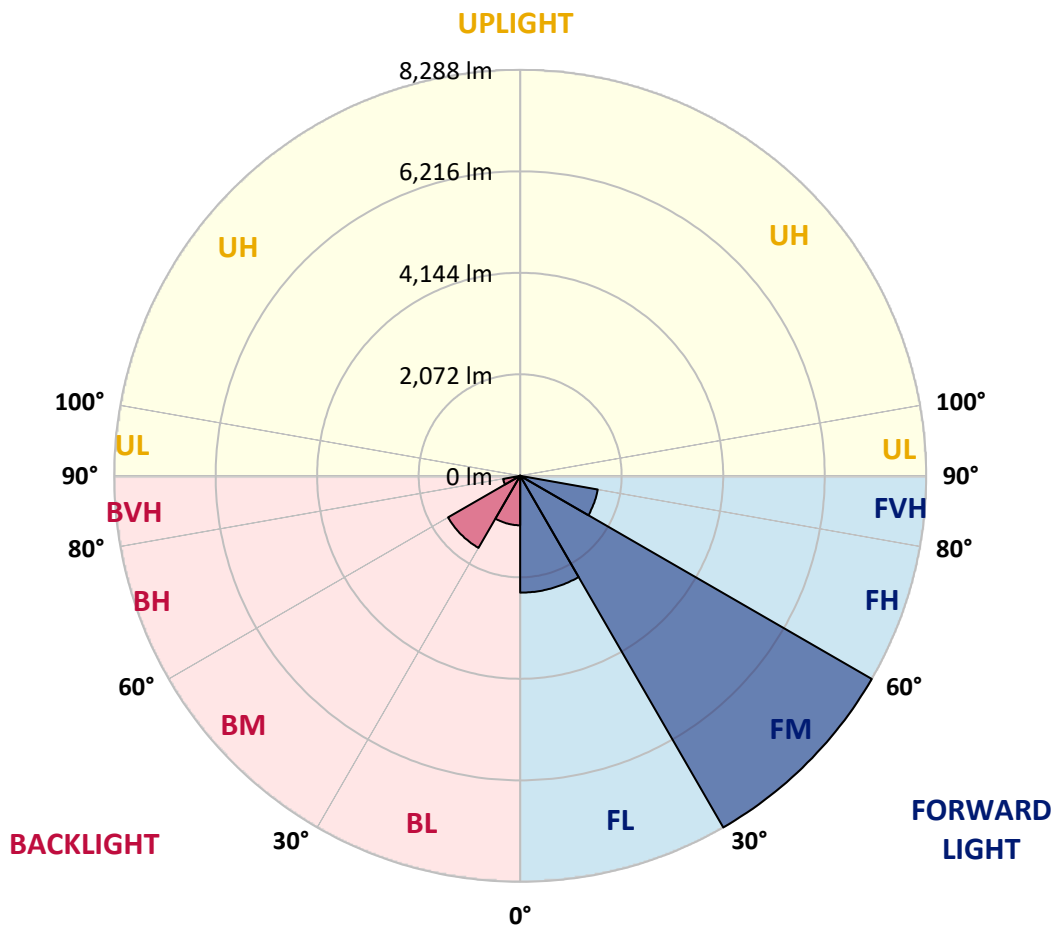
CATALOG NUMBER: GALN-SA4C-760-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2385.3	15.5			
FM (30°-60°)	8288.3	53.9			
FH (60°-80°)	1607.8	10.5			G1/1800
FVH (80°-90°)	14.0	0.1			G1/100
BL (0°-30°)	1009.4	6.6	B3/2500		
BM (30°-60°)	1699.5	11.1	B2/2500		
BH (60°-80°)	353.6	2.3	B1/500		G1/500
BVH (80°-90°)	17.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1
2.5°	8105.2	7980.1	7821.5	7690.3	7495.1	7101.6	6994.8	6866.7	6759.9	6616.5	6415.2
5°	7370.0	7330.3	7257.1	6762.9	6406.0	5930.2	5539.7	5375.0	5158.4	4981.5	4853.3
7.5°	6808.7	6650.1	6418.2	5921.0	5350.6	4841.1	4408.0	4154.8	3868.0	3770.4	3596.5
10°	6207.8	6244.4	5902.7	5204.1	4514.7	4102.9	3834.5	3590.4	3331.1	3160.3	2913.2
12.5°	6015.6	5896.6	5634.3	4771.0	4182.2	3797.9	3471.5	3169.5	2894.9	2620.4	2382.4
15°	6140.6	5957.6	5591.6	4679.5	3926.0	3447.1	3038.3	2629.5	2376.3	2025.5	1778.4
17.5°	6589.1	6442.6	5951.5	4777.1	3794.8	3111.5	2504.5	2083.5	1696.1	1378.8	1253.8
20°	7336.4	7129.0	6512.8	4902.1	3599.6	2705.8	2031.6	1513.0	1147.0	1012.8	942.6
22.5°	8068.6	7955.7	7177.8	5143.1	3425.7	2345.8	1525.2	1018.9	857.2	832.8	787.0
25°	9462.6	9124.0	8193.6	5579.4	3291.5	2007.2	1150.0	820.6	726.0	707.7	713.8
27.5°	10292.4	10008.7	9133.2	5869.2	3142.0	1747.9	973.1	753.5	689.4	649.8	634.5
30°	11088.5	10759.1	9599.9	6040.0	2821.7	1473.4	863.3	723.0	707.7	649.8	631.5
32.5°	11701.7	11378.3	10274.1	6296.2	2690.5	1296.5	710.8	564.3	524.7	518.6	573.5
35°	12641.2	12296.5	10850.6	6436.5	2589.9	1204.9	616.2	503.3	457.6	439.3	442.3
37.5°	13516.7	13281.9	11384.4	6491.5	2483.1	1177.5	552.1	451.5	411.8	399.6	396.6
40°	14248.9	13724.2	11890.8	6549.4	2437.3	1125.6	512.5	411.8	384.4	366.1	366.1
42.5°	14584.4	14050.6	12458.2	6515.9	2425.1	1043.3	512.5	378.3	356.9	338.6	335.6
45°	14511.2	14294.6	12711.4	6500.6	2425.1	960.9	466.7	369.1	338.6	314.2	308.1
47.5°	14700.3	14416.6	13028.7	6564.7	2376.3	902.9	393.5	387.4	320.3	289.8	283.7
50°	14733.9	14788.8	13580.8	6897.2	2269.6	829.7	308.1	381.3	308.1	262.3	256.2
52°	14953.5	14611.9	13748.6	7074.1	2156.7	774.8	259.3	326.4	295.9	244.0	237.9
52.5°	14651.5	14874.2	13788.2	7138.2	2168.9	738.2	250.1	320.3	289.8	244.0	228.8
55°	14312.9	14526.5	13626.6	7275.4	1988.9	579.6	195.2	231.8	262.3	213.5	204.4
57.5°	12439.9	12656.5	11842.0	6662.3	1619.8	408.8	161.7	173.9	231.8	198.3	189.1
60°	11058.0	10902.5	9938.5	5558.0	1150.0	228.8	128.1	134.2	253.2	183.0	180.0
62.5°	10106.3	9773.8	8306.5	4292.0	701.6	152.5	100.7	103.7	195.2	170.8	170.8
65°	7476.8	7104.6	5518.3	2596.0	344.7	106.8	76.3	82.4	122.0	146.4	146.4
67.5°	4267.6	4124.3	2666.1	1171.4	143.4	67.1	58.0	64.1	94.6	119.0	112.9
70°	1961.5	1760.1	1025.0	247.1	67.1	45.8	45.8	51.9	76.3	88.5	82.4
72.5°	573.5	543.0	250.1	39.7	27.5	27.5	30.5	39.7	58.0	67.1	61.0
75°	42.7	27.5	18.3	12.2	12.2	18.3	24.4	39.7	58.0	64.1	51.9
77.5°	3.1	6.1	3.1	3.1	9.2	18.3	27.5	48.8	76.3	79.3	58.0
80°	3.1	3.1	0.0	3.1	9.2	18.3	30.5	54.9	85.4	91.5	48.8
82.5°	0.0	0.0	0.0	3.1	12.2	24.4	36.6	58.0	79.3	97.6	51.9
85°	0.0	0.0	0.0	3.1	18.3	33.6	42.7	15.3	9.2	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°	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1
2.5°	6558.6	6479.2	6448.7	6476.2	6467.0	6457.9	6625.7	6589.1	6583.0	6637.9	6625.7
5°	4923.5	4783.2	5167.5	5012.0	5173.6	5271.3	5289.6	5298.7	5411.6	5292.6	5448.2
7.5°	3508.1	3544.7	3541.6	3645.3	3831.4	3996.1	4093.8	4017.5	4011.4	3996.1	3929.0
10°	2803.4	2739.3	2727.1	2702.7	2760.7	2901.0	3020.0	2925.4	2858.3	2949.8	2922.4
12.5°	2290.9	2202.5	2153.6	2056.0	2059.1	2153.6	2153.6	2153.6	2220.8	2272.6	2312.3
15°	1757.1	1683.9	1683.9	1586.3	1564.9	1568.0	1616.8	1622.9	1729.6	1760.1	1775.4
17.5°	1229.3	1189.7	1235.5	1275.1	1250.7	1256.8	1275.1	1281.2	1296.5	1284.3	1314.8
20°	945.7	939.6	951.8	1021.9	1073.8	1104.3	1082.9	1052.4	1034.1	991.4	991.4
22.5°	802.3	814.5	835.8	893.8	960.9	979.2	954.8	884.6	829.7	823.6	826.7
25°	713.8	726.0	759.6	796.2	832.8	863.3	838.9	787.0	756.5	729.1	729.1
27.5°	658.9	665.0	683.3	710.8	741.3	765.7	756.5	729.1	695.5	683.3	655.9
30°	616.2	625.4	646.7	652.8	680.3	692.5	677.2	671.1	649.8	634.5	625.4
32.5°	594.8	591.8	607.0	613.1	616.2	625.4	607.0	616.2	613.1	588.7	579.6
35°	448.4	472.8	512.5	546.0	555.2	567.4	564.3	552.1	518.6	491.1	457.6
37.5°	402.7	417.9	439.3	466.7	503.3	518.6	512.5	482.0	442.3	424.0	417.9
40°	372.2	381.3	399.6	417.9	454.5	482.0	460.6	433.2	402.7	387.4	378.3
42.5°	344.7	347.8	356.9	375.2	402.7	445.4	408.8	372.2	360.0	350.8	344.7
45°	314.2	314.2	326.4	335.6	366.1	405.7	369.1	335.6	329.5	323.4	320.3
47.5°	289.8	292.8	298.9	311.2	335.6	363.0	338.6	311.2	295.9	292.8	286.7
50°	259.3	262.3	274.5	286.7	317.3	332.5	317.3	286.7	271.5	262.3	262.3
52°	234.9	244.0	256.2	280.6	302.0	326.4	308.1	274.5	256.2	247.1	241.0
52.5°	231.8	237.9	250.1	277.6	302.0	323.4	305.0	271.5	250.1	244.0	237.9
55°	207.4	216.6	237.9	271.5	298.9	323.4	298.9	268.4	237.9	222.7	216.6
57.5°	198.3	204.4	231.8	274.5	295.9	323.4	298.9	268.4	237.9	210.5	204.4
60°	189.1	201.3	231.8	265.4	292.8	326.4	302.0	265.4	231.8	198.3	198.3
62.5°	180.0	189.1	228.8	259.3	280.6	314.2	289.8	259.3	222.7	189.1	186.1
65°	155.6	170.8	201.3	216.6	241.0	271.5	247.1	225.7	195.2	167.8	164.7
67.5°	119.0	125.1	149.5	167.8	183.0	210.5	198.3	170.8	149.5	128.1	128.1
70°	82.4	88.5	106.8	115.9	131.2	146.4	137.3	115.9	100.7	88.5	85.4
72.5°	58.0	61.0	67.1	73.2	79.3	85.4	82.4	67.1	58.0	54.9	51.9
75°	45.8	51.9	54.9	51.9	48.8	45.8	45.8	39.7	33.6	30.5	30.5
77.5°	45.8	48.8	45.8	39.7	33.6	30.5	27.5	24.4	18.3	15.3	18.3
80°	39.7	39.7	39.7	33.6	30.5	27.5	24.4	21.4	18.3	15.3	15.3
82.5°	42.7	42.7	39.7	33.6	33.6	27.5	27.5	24.4	21.4	15.3	15.3
85°	0.0	0.0	0.0	6.1	15.3	27.5	27.5	24.4	21.4	18.3	18.3
87.5°	0.0	0.0	0.0	0.0	3.1	6.1	12.2	15.3	18.3	18.3	18.3
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°	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1
2.5°	6735.5	6851.4	7071.0	7290.7	7424.9	7583.5	7870.3	8022.8	8221.1	8318.7	8510.9
5°	5426.8	5701.4	5799.0	6049.1	6317.6	6586.0	7013.1	7482.9	7873.3	8141.8	8489.5
7.5°	3959.5	4023.6	4401.9	4569.6	5008.9	5497.0	6079.6	6671.4	7165.6	7604.9	7870.3
10°	2968.1	3203.0	3441.0	3761.3	4115.1	4618.4	5176.7	5829.5	6470.1	6909.4	7244.9
12.5°	2385.5	2571.6	2888.8	3233.5	3669.7	4002.2	4563.5	5210.2	6040.0	6470.1	6912.4
15°	1805.9	2043.8	2403.8	2760.7	3221.3	3572.1	4139.5	4954.0	6021.7	6613.5	6994.8
17.5°	1339.2	1500.8	1824.2	2223.8	2693.6	3187.8	3953.4	4926.5	6226.1	6930.7	7324.2
20°	1025.0	1079.9	1284.3	1641.2	2150.6	2797.3	3651.4	5045.5	6830.1	7702.5	8102.1
22.5°	829.7	854.1	933.5	1180.5	1674.7	2455.6	3508.1	5127.9	7510.3	8626.8	9160.6
25°	723.0	716.9	768.7	875.5	1308.7	2135.3	3325.0	5439.0	8343.1	9712.8	10191.7
27.5°	658.9	658.9	683.3	759.6	1086.0	1927.9	3209.1	5661.7	9182.0	10667.6	10926.9
30°	625.4	631.5	701.6	726.0	902.9	1680.8	3016.9	5887.5	9984.3	11277.7	11634.6
32.5°	579.6	555.2	539.9	600.9	759.6	1458.1	2824.8	5982.0	10634.0	12025.0	12330.1
35°	445.4	433.2	451.5	497.2	652.8	1269.0	2611.2	6088.8	11381.4	12891.4	12952.4
37.5°	402.7	399.6	411.8	451.5	549.1	1104.3	2458.7	6061.3	11951.8	13608.3	13443.5
40°	372.2	372.2	381.3	414.9	491.1	988.4	2300.1	6036.9	12504.0	14413.6	13931.6
42.5°	347.8	347.8	363.0	384.4	466.7	912.1	2181.1	6003.4	12967.7	14907.8	14218.4
45°	314.2	323.4	347.8	369.1	472.8	860.2	2092.6	5875.3	13126.3	14901.7	14081.1
47.5°	289.8	302.0	326.4	356.9	427.1	845.0	2031.6	5762.4	13071.4	14535.6	13651.0
50°	262.3	277.6	311.2	363.0	363.0	814.5	1967.6	5863.0	13031.7	14251.9	13239.1
52°	244.0	256.2	298.9	353.9	317.3	750.4	1927.9	6058.3	13193.4	14215.3	13056.1
52.5°	241.0	250.1	289.8	347.8	302.0	738.2	1900.5	6104.0	13245.2	14123.8	13181.2
55°	213.5	225.7	265.4	271.5	247.1	607.0	1812.0	6207.8	12989.0	13943.8	13062.2
57.5°	201.3	207.4	234.9	222.7	213.5	457.6	1558.8	6046.1	11537.0	12385.0	12153.2
60°	186.1	192.2	219.6	173.9	180.0	320.3	1171.4	5249.9	9264.4	10319.8	10737.7
62.5°	180.0	176.9	207.4	140.3	152.5	231.8	826.7	4267.6	7138.2	8495.6	9218.6
65°	158.6	155.6	149.5	119.0	131.2	180.0	494.2	2785.1	5030.3	6427.4	6824.0
67.5°	122.0	128.1	109.8	94.6	109.8	140.3	274.5	1247.7	2638.7	3855.8	4176.1
70°	85.4	91.5	88.5	82.4	97.6	115.9	158.6	427.1	1092.1	2025.5	2233.0
72.5°	51.9	64.1	67.1	70.2	85.4	100.7	112.9	137.3	289.8	716.9	890.7
75°	30.5	42.7	51.9	61.0	70.2	85.4	94.6	97.6	100.7	134.2	216.6
77.5°	21.4	30.5	45.8	58.0	70.2	85.4	100.7	106.8	100.7	94.6	100.7
80°	18.3	30.5	42.7	54.9	73.2	88.5	100.7	100.7	97.6	85.4	91.5
82.5°	18.3	30.5	45.8	58.0	70.2	85.4	97.6	100.7	91.5	85.4	88.5
85°	21.4	33.6	48.8	61.0	76.3	70.2	64.1	51.9	48.8	39.7	42.7
87.5°	21.4	30.5	30.5	33.6	36.6	36.6	36.6	33.6	27.5	24.4	24.4
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: P529459

CATALOG NUMBER: GALN-SA4C-760-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1	7797.1
2.5°	8520.0	8764.1	8754.9	8761.0	8724.4	8477.3	8358.4	8056.4	8141.8	8105.2
5°	8846.4	9087.4	9294.9	9270.5	8989.8	8654.3	8157.0	7687.2	7559.1	7370.0
7.5°	8520.0	9099.6	9291.8	9264.4	8849.5	8419.4	7626.2	7156.5	6933.8	6808.7
10°	8001.4	8672.6	8910.5	8959.3	8678.7	8025.9	7296.8	6543.3	6424.3	6207.8
12.5°	7705.5	8193.6	8340.1	8471.2	8373.6	7885.5	7046.6	6323.7	6158.9	6015.6
15°	7464.6	7754.4	7815.4	7964.8	8022.8	7760.5	7177.8	6561.6	6155.9	6140.6
17.5°	7687.2	7568.3	7345.6	7391.3	7574.4	7763.5	7516.4	7031.4	6637.9	6589.1
20°	8056.4	7531.7	7028.3	7141.2	7293.7	7873.3	8028.9	7687.2	7461.5	7336.4
22.5°	8480.4	7595.7	6927.7	6982.6	7272.4	8120.4	8858.6	8669.5	8248.5	8068.6
25°	9264.4	7772.7	7007.0	7043.6	7440.2	8465.1	9609.1	9749.4	9499.2	9462.6
27.5°	10030.0	8230.2	7180.9	7098.5	7525.6	8800.7	10063.6	10817.1	10377.8	10292.4
30°	10420.5	8602.4	7440.2	7299.8	7879.4	9005.1	10338.1	11512.6	11128.2	11088.5
32.5°	11018.4	8941.0	7641.5	7461.5	8077.7	9258.2	10850.6	12272.1	11900.0	11701.7
35°	11268.5	9310.1	8083.8	7873.3	8645.1	9612.1	11113.0	12949.3	12833.4	12641.2
37.5°	11750.5	9706.7	8605.4	8593.2	9331.5	10072.7	11585.8	13870.6	13849.2	13516.7
40°	11790.2	10139.8	9429.1	9813.4	10393.0	10875.0	12000.6	14126.8	14474.6	14248.9
42.5°	11851.2	10899.4	10853.7	11170.9	11668.1	11564.4	12015.9	14187.8	14718.6	14584.4
45°	11878.6	11659.0	12302.6	12888.3	13095.8	12467.4	11872.5	14071.9	14846.8	14511.2
47.5°	11659.0	12311.8	13474.0	14605.8	14666.8	13022.6	11811.5	13953.0	14923.0	14700.3
50°	11689.5	12720.6	14486.8	15499.6	15276.9	13513.7	11716.9	13879.7	14883.4	14733.9
52°	11616.3	12729.7	14630.2	15481.3	15325.7	13242.2	11555.3	13599.1	14846.8	14953.5
52.5°	11698.6	12674.8	14480.7	15493.5	15292.1	13376.4	11533.9	13754.7	14868.1	14651.5
55°	11414.9	12022.0	13605.2	14035.3	14004.8	12141.0	10878.1	13239.1	14309.9	14312.9
57.5°	10316.8	10420.5	10670.6	10661.5	10521.2	9545.0	9304.0	12174.5	12757.2	12439.9
60°	9090.5	7629.3	6955.1	6680.6	6525.0	6366.4	8230.2	11137.4	11192.3	11058.0
62.5°	7855.0	5289.6	4392.7	4316.4	4353.1	4932.6	7955.7	10725.5	10396.1	10106.3
65°	6338.9	3855.8	3190.8	3090.2	3447.1	4072.4	6439.6	8224.1	7717.8	7476.8
67.5°	3980.9	2812.6	2156.7	1967.6	2397.7	2803.4	4231.0	5167.5	4600.1	4267.6
70°	2361.1	1571.0	976.2	875.5	985.3	1494.7	2370.2	2577.7	2132.3	1961.5
72.5°	930.4	576.5	271.5	231.8	241.0	524.7	872.4	851.1	643.7	573.5
75°	250.1	173.9	94.6	76.3	64.1	97.6	140.3	91.5	33.6	42.7
77.5°	115.9	103.7	82.4	64.1	48.8	36.6	18.3	6.1	6.1	3.1
80°	100.7	88.5	76.3	64.1	48.8	30.5	15.3	3.1	3.1	3.1
82.5°	94.6	82.4	70.2	58.0	45.8	30.5	15.3	3.1	0.0	0.0
85°	39.7	51.9	58.0	54.9	48.8	30.5	15.3	3.1	0.0	0.0
87.5°	21.4	18.3	15.3	12.2	9.2	6.1	6.1	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)