

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: P529511

Luminaire Tested: **GALN-SA4C-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529511
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-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 12218 lumens
Efficiency: N/A
Efficacy: 57.4 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



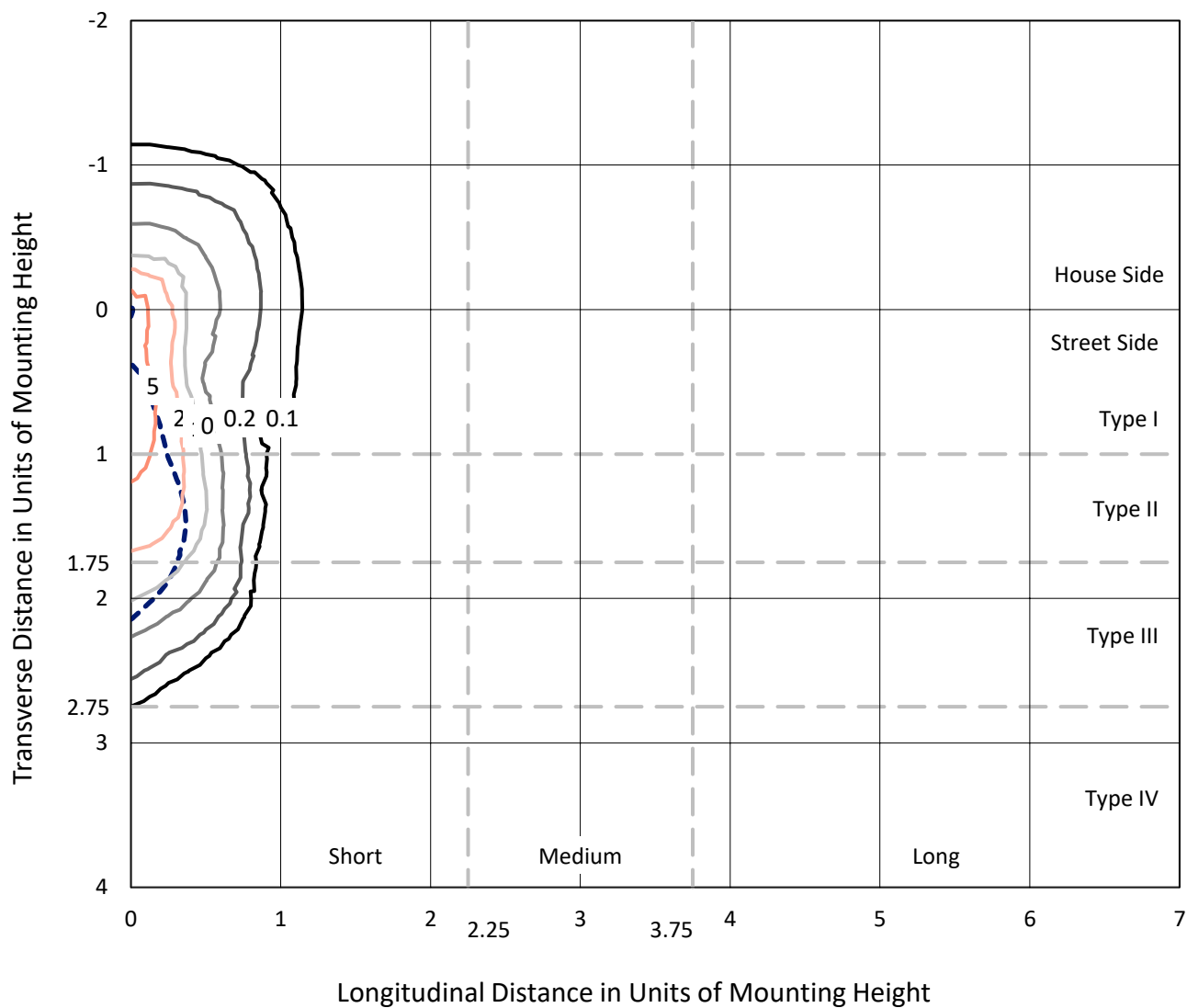
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



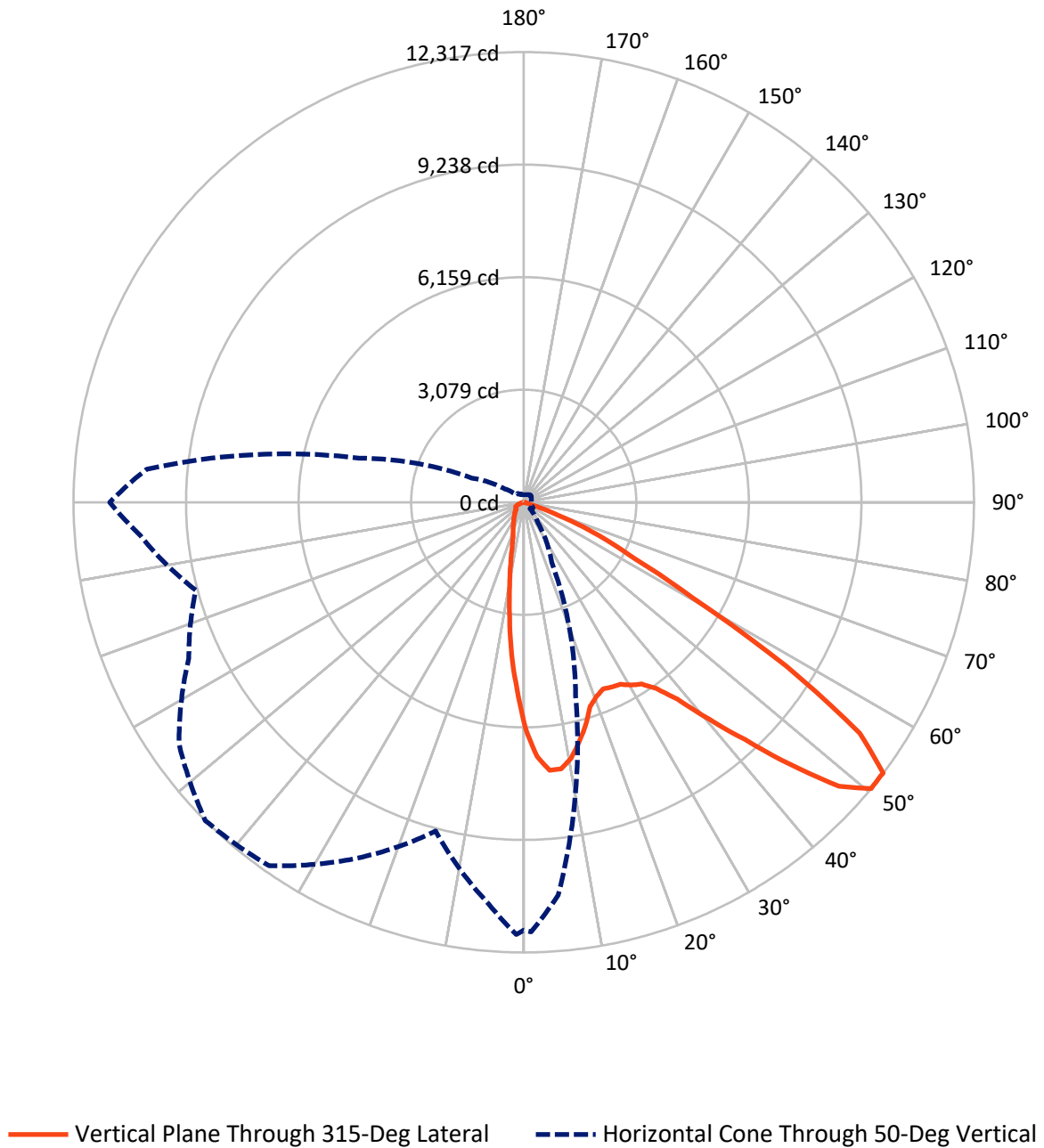
Based on 25 foot mounting height. Maximum calculated value = 9.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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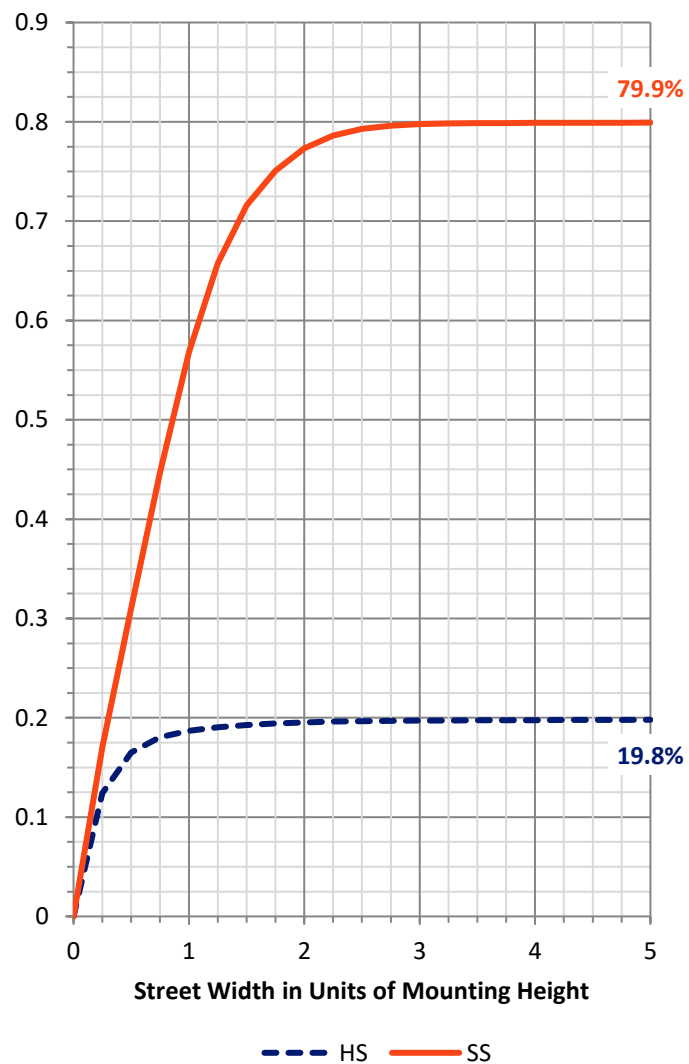
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2447.3	0.0	2447.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	9770.7	0.0	9770.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	12218.0	0.0	12218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.6	3.7
10°-20°	897.6	7.3
20°-30°	1348.5	11.0
30°-40°	2024.0	16.6
40°-50°	2844.6	23.3
50°-60°	3068.4	25.1
60°-70°	1424.6	11.7
70°-80°	134.0	1.1
80°-90°	24.7	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°	12218.0	100.0
0°-180°	12218.0	100.0

Coefficient of Utilization



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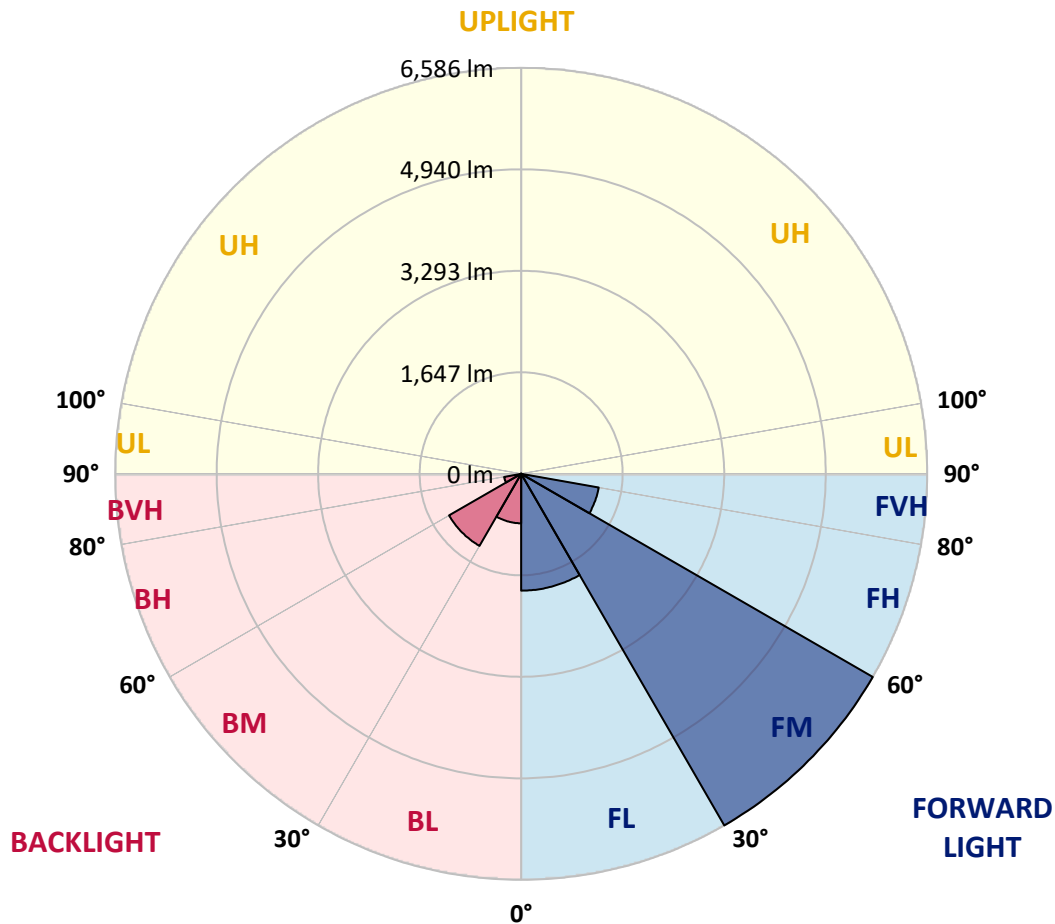
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1895.5	15.5			
FM	(30°-60°)	6586.4	53.9			
FH	(60°-80°)	1277.7	10.5			G1/1800
FVH	(80°-90°)	11.1	0.1			G1/100
BL	(0°-30°)	802.1	6.6	B2/1000		
BM	(30°-60°)	1350.5	11.1	B2/2500		
BH	(60°-80°)	281.0	2.3	B1/500		G1/500
BVH	(80°-90°)	13.6	0.1			G1/100
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°	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1
2.5°	6440.9	6341.5	6215.5	6111.2	5956.1	5643.4	5558.5	5456.7	5371.9	5257.9	5097.9
5°	5856.7	5825.2	5767.0	5374.3	5090.7	4712.5	4402.2	4271.3	4099.2	3958.6	3856.8
7.5°	5410.6	5284.6	5100.4	4705.2	4251.9	3847.1	3502.9	3301.7	3073.8	2996.2	2858.0
10°	4933.1	4962.2	4690.7	4135.6	3587.7	3260.4	3047.1	2853.2	2647.1	2511.4	2315.0
12.5°	4780.4	4685.8	4477.4	3791.3	3323.5	3018.0	2758.7	2518.7	2300.5	2082.3	1893.2
15°	4879.8	4734.3	4443.4	3718.6	3119.9	2739.3	2414.4	2089.6	1888.4	1609.6	1413.3
17.5°	5236.1	5119.8	4729.5	3796.2	3015.6	2472.6	1990.2	1655.7	1347.8	1095.7	996.3
20°	5830.0	5665.2	5175.5	3895.6	2860.5	2150.2	1614.5	1202.4	911.5	804.8	749.1
22.5°	6411.8	6322.1	5704.0	4087.1	2722.3	1864.2	1212.1	809.7	681.2	661.8	625.4
25°	7519.6	7250.6	6511.2	4433.7	2615.6	1595.1	913.9	652.1	576.9	562.4	567.2
27.5°	8179.0	7953.6	7257.8	4664.0	2496.8	1389.0	773.3	598.8	547.9	516.3	504.2
30°	8811.7	8549.9	7628.7	4799.8	2242.3	1170.9	686.0	574.5	562.4	516.3	501.8
32.5°	9298.9	9042.0	8164.5	5003.4	2138.1	1030.3	564.8	448.5	416.9	412.1	455.7
35°	10045.6	9771.7	8622.6	5114.9	2058.1	957.5	489.7	400.0	363.6	349.1	351.5
37.5°	10741.3	10554.6	9046.8	5158.5	1973.2	935.7	438.8	358.8	327.3	317.6	315.1
40°	11323.1	10906.1	9449.2	5204.6	1936.9	894.5	407.3	327.3	305.4	290.9	290.9
42.5°	11589.7	11165.5	9900.1	5177.9	1927.2	829.1	407.3	300.6	283.6	269.1	266.7
45°	11531.6	11359.5	10101.3	5165.8	1927.2	763.6	370.9	293.3	269.1	249.7	244.8
47.5°	11681.9	11456.4	10353.4	5216.7	1888.4	717.5	312.7	307.9	254.5	230.3	225.4
50°	11708.5	11752.2	10792.2	5480.9	1803.5	659.4	244.8	303.0	244.8	208.5	203.6
52°	11883.1	11611.6	10925.5	5621.5	1713.9	615.7	206.1	259.4	235.1	193.9	189.1
52.5°	11643.1	11820.0	10957.0	5672.5	1723.6	586.6	198.8	254.5	230.3	193.9	181.8
55°	11374.0	11543.7	10828.6	5781.5	1580.5	460.6	155.1	184.2	208.5	169.7	162.4
57.5°	9885.6	10057.7	9410.5	5294.3	1287.2	324.8	128.5	138.2	184.2	157.6	150.3
60°	8787.5	8663.8	7897.8	4416.8	913.9	181.8	101.8	106.7	201.2	145.4	143.0
62.5°	8031.1	7766.9	6600.9	3410.7	557.5	121.2	80.0	82.4	155.1	135.8	135.8
65°	5941.5	5645.8	4385.2	2062.9	273.9	84.8	60.6	65.5	97.0	116.4	116.4
67.5°	3391.4	3277.4	2118.7	930.9	113.9	53.3	46.1	50.9	75.1	94.5	89.7
70°	1558.7	1398.7	814.5	196.4	53.3	36.4	36.4	41.2	60.6	70.3	65.5
72.5°	455.7	431.5	198.8	31.5	21.8	21.8	24.2	31.5	46.1	53.3	48.5
75°	33.9	21.8	14.5	9.7	9.7	14.5	19.4	31.5	46.1	50.9	41.2
77.5°	2.4	4.8	2.4	2.4	7.3	14.5	21.8	38.8	60.6	63.0	46.1
80°	2.4	2.4	0.0	2.4	7.3	14.5	24.2	43.6	67.9	72.7	38.8
82.5°	0.0	0.0	0.0	2.4	9.7	19.4	29.1	46.1	63.0	77.6	41.2
85°	0.0	0.0	0.0	2.4	14.5	26.7	33.9	12.1	7.3	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°	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1
2.5°	5211.9	5148.8	5124.6	5146.4	5139.1	5131.9	5265.2	5236.1	5231.3	5274.9	5265.2
5°	3912.5	3801.0	4106.5	3982.8	4111.3	4188.9	4203.4	4210.7	4300.4	4205.9	4329.5
7.5°	2787.7	2816.8	2814.4	2896.8	3044.7	3175.6	3253.2	3192.6	3187.7	3175.6	3122.3
10°	2227.8	2176.9	2167.2	2147.8	2193.8	2305.3	2399.9	2324.7	2271.4	2344.1	2322.3
12.5°	1820.5	1750.2	1711.4	1633.9	1636.3	1711.4	1711.4	1711.4	1764.8	1806.0	1837.5
15°	1396.3	1338.1	1338.1	1260.5	1243.6	1246.0	1284.8	1289.6	1374.5	1398.7	1410.8
17.5°	976.9	945.4	981.8	1013.3	993.9	998.7	1013.3	1018.1	1030.3	1020.6	1044.8
20°	751.5	746.6	756.3	812.1	853.3	877.5	860.6	836.3	821.8	787.8	787.8
22.5°	637.5	647.2	664.2	710.3	763.6	778.1	758.8	703.0	659.4	654.5	656.9
25°	567.2	576.9	603.6	632.7	661.8	686.0	666.6	625.4	601.2	579.4	579.4
27.5°	523.6	528.5	543.0	564.8	589.1	608.5	601.2	579.4	552.7	543.0	521.2
30°	489.7	496.9	513.9	518.8	540.6	550.3	538.2	533.3	516.3	504.2	496.9
32.5°	472.7	470.3	482.4	487.2	489.7	496.9	482.4	489.7	487.2	467.9	460.6
35°	356.3	375.7	407.3	433.9	441.2	450.9	448.5	438.8	412.1	390.3	363.6
37.5°	320.0	332.1	349.1	370.9	400.0	412.1	407.3	383.0	351.5	337.0	332.1
40°	295.7	303.0	317.6	332.1	361.2	383.0	366.0	344.2	320.0	307.9	300.6
42.5°	273.9	276.4	283.6	298.2	320.0	353.9	324.8	295.7	286.0	278.8	273.9
45°	249.7	249.7	259.4	266.7	290.9	322.4	293.3	266.7	261.8	257.0	254.5
47.5°	230.3	232.7	237.6	247.3	266.7	288.5	269.1	247.3	235.1	232.7	227.9
50°	206.1	208.5	218.2	227.9	252.1	264.2	252.1	227.9	215.7	208.5	208.5
52°	186.7	193.9	203.6	223.0	240.0	259.4	244.8	218.2	203.6	196.4	191.5
52.5°	184.2	189.1	198.8	220.6	240.0	257.0	242.4	215.7	198.8	193.9	189.1
55°	164.8	172.1	189.1	215.7	237.6	257.0	237.6	213.3	189.1	177.0	172.1
57.5°	157.6	162.4	184.2	218.2	235.1	257.0	237.6	213.3	189.1	167.3	162.4
60°	150.3	160.0	184.2	210.9	232.7	259.4	240.0	210.9	184.2	157.6	157.6
62.5°	143.0	150.3	181.8	206.1	223.0	249.7	230.3	206.1	177.0	150.3	147.9
65°	123.6	135.8	160.0	172.1	191.5	215.7	196.4	179.4	155.1	133.3	130.9
67.5°	94.5	99.4	118.8	133.3	145.4	167.3	157.6	135.8	118.8	101.8	101.8
70°	65.5	70.3	84.8	92.1	104.2	116.4	109.1	92.1	80.0	70.3	67.9
72.5°	46.1	48.5	53.3	58.2	63.0	67.9	65.5	53.3	46.1	43.6	41.2
75°	36.4	41.2	43.6	41.2	38.8	36.4	36.4	31.5	26.7	24.2	24.2
77.5°	36.4	38.8	36.4	31.5	26.7	24.2	21.8	19.4	14.5	12.1	14.5
80°	31.5	31.5	31.5	26.7	24.2	21.8	19.4	17.0	14.5	12.1	12.1
82.5°	33.9	33.9	31.5	26.7	26.7	21.8	21.8	19.4	17.0	12.1	12.1
85°	0.0	0.0	0.0	4.8	12.1	21.8	21.8	19.4	17.0	14.5	14.5
87.5°	0.0	0.0	0.0	0.0	2.4	4.8	9.7	12.1	14.5	14.5	14.5
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°	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1
2.5°	5352.5	5444.6	5619.1	5793.7	5900.3	6026.4	6254.2	6375.5	6533.0	6610.6	6763.3
5°	4312.5	4530.7	4608.3	4807.0	5020.4	5233.7	5573.1	5946.4	6256.7	6470.0	6746.3
7.5°	3146.5	3197.4	3498.0	3631.3	3980.4	4368.3	4831.3	5301.6	5694.3	6043.3	6254.2
10°	2358.7	2545.3	2734.4	2988.9	3270.1	3670.1	4113.7	4632.5	5141.6	5490.6	5757.3
12.5°	1895.7	2043.5	2295.6	2569.6	2916.2	3180.5	3626.5	4140.4	4799.8	5141.6	5493.1
15°	1435.1	1624.2	1910.2	2193.8	2559.9	2838.7	3289.5	3936.8	4785.2	5255.5	5558.5
17.5°	1064.2	1192.7	1449.6	1767.2	2140.5	2533.2	3141.7	3915.0	4947.6	5507.6	5820.3
20°	814.5	858.1	1020.6	1304.2	1709.0	2222.9	2901.7	4009.5	5427.6	6120.9	6438.5
22.5°	659.4	678.8	741.8	938.1	1330.8	1951.4	2787.7	4075.0	5968.2	6855.4	7279.7
25°	574.5	569.7	610.9	695.7	1040.0	1696.9	2642.3	4322.2	6630.0	7718.4	8099.0
27.5°	523.6	523.6	543.0	603.6	863.0	1532.0	2550.2	4499.2	7296.6	8477.2	8683.2
30°	496.9	501.8	557.5	576.9	717.5	1335.7	2397.5	4678.6	7934.2	8962.0	9245.6
32.5°	460.6	441.2	429.1	477.6	603.6	1158.7	2244.7	4753.7	8450.5	9555.9	9798.3
35°	353.9	344.2	358.8	395.1	518.8	1008.4	2075.1	4838.6	9044.4	10244.4	10292.8
37.5°	320.0	317.6	327.3	358.8	436.3	877.5	1953.8	4816.7	9497.7	10814.0	10683.1
40°	295.7	295.7	303.0	329.7	390.3	785.4	1827.8	4797.3	9936.5	11454.0	11071.0
42.5°	276.4	276.4	288.5	305.4	370.9	724.8	1733.3	4770.7	10305.0	11846.7	11298.9
45°	249.7	257.0	276.4	293.3	375.7	683.6	1663.0	4668.9	10431.0	11841.9	11189.8
47.5°	230.3	240.0	259.4	283.6	339.4	671.5	1614.5	4579.2	10387.4	11551.0	10848.0
50°	208.5	220.6	247.3	288.5	288.5	647.2	1563.6	4659.2	10355.9	11325.5	10520.7
52°	193.9	203.6	237.6	281.2	252.1	596.3	1532.0	4814.3	10484.3	11296.4	10375.3
52.5°	191.5	198.8	230.3	276.4	240.0	586.6	1510.2	4850.7	10525.6	11223.7	10474.6
55°	169.7	179.4	210.9	215.7	196.4	482.4	1439.9	4933.1	10321.9	11080.7	10380.1
57.5°	160.0	164.8	186.7	177.0	169.7	363.6	1238.7	4804.6	9168.0	9842.0	9657.7
60°	147.9	152.7	174.5	138.2	143.0	254.5	930.9	4171.9	7362.1	8200.8	8532.9
62.5°	143.0	140.6	164.8	111.5	121.2	184.2	656.9	3391.4	5672.5	6751.2	7325.7
65°	126.1	123.6	118.8	94.5	104.2	143.0	392.7	2213.2	3997.4	5107.6	5422.8
67.5°	97.0	101.8	87.3	75.1	87.3	111.5	218.2	991.5	2096.9	3064.1	3318.6
70°	67.9	72.7	70.3	65.5	77.6	92.1	126.1	339.4	867.8	1609.6	1774.5
72.5°	41.2	50.9	53.3	55.8	67.9	80.0	89.7	109.1	230.3	569.7	707.8
75°	24.2	33.9	41.2	48.5	55.8	67.9	75.1	77.6	80.0	106.7	172.1
77.5°	17.0	24.2	36.4	46.1	55.8	67.9	80.0	84.8	80.0	75.1	80.0
80°	14.5	24.2	33.9	43.6	58.2	70.3	80.0	80.0	77.6	67.9	72.7
82.5°	14.5	24.2	36.4	46.1	55.8	67.9	77.6	80.0	72.7	67.9	70.3
85°	17.0	26.7	38.8	48.5	60.6	55.8	50.9	41.2	38.8	31.5	33.9
87.5°	17.0	24.2	24.2	26.7	29.1	29.1	29.1	26.7	21.8	19.4	19.4
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: P529511

CATALOG NUMBER: GALN-SA4C-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1	6196.1
2.5°	6770.6	6964.5	6957.2	6962.1	6933.0	6736.6	6642.1	6402.1	6470.0	6440.9
5°	7030.0	7221.5	7386.3	7366.9	7143.9	6877.2	6482.1	6108.8	6007.0	5856.7
7.5°	6770.6	7231.2	7383.9	7362.1	7032.4	6690.6	6060.3	5687.0	5510.0	5410.6
10°	6358.5	6891.8	7080.9	7119.7	6896.6	6377.9	5798.5	5199.8	5105.2	4933.1
12.5°	6123.3	6511.2	6627.6	6731.8	6654.2	6266.4	5599.7	5025.2	4894.3	4780.4
15°	5931.8	6162.1	6210.6	6329.4	6375.5	6167.0	5704.0	5214.3	4891.9	4879.8
17.5°	6108.8	6014.3	5837.3	5873.7	6019.1	6169.4	5973.0	5587.6	5274.9	5236.1
20°	6402.1	5985.2	5585.2	5674.9	5796.1	6256.7	6380.3	6108.8	5929.4	5830.0
22.5°	6739.1	6036.1	5505.2	5548.8	5779.1	6453.0	7039.7	6889.4	6554.8	6411.8
25°	7362.1	6176.7	5568.2	5597.3	5912.4	6726.9	7636.0	7747.5	7548.7	7519.6
27.5°	7970.5	6540.3	5706.4	5640.9	5980.3	6993.6	7997.2	8596.0	8246.9	8179.0
30°	8280.8	6836.0	5912.4	5800.9	6261.5	7156.0	8215.4	9148.7	8843.2	8811.7
32.5°	8755.9	7105.1	6072.4	5929.4	6419.1	7357.2	8622.6	9752.3	9456.5	9298.9
35°	8954.7	7398.4	6423.9	6256.7	6870.0	7638.4	8831.1	10290.4	10198.3	10045.6
37.5°	9337.7	7713.6	6838.5	6828.8	7415.4	8004.5	9206.8	11022.5	11005.5	10741.3
40°	9369.2	8057.8	7493.0	7798.4	8259.0	8642.0	9536.5	11226.1	11502.5	11323.1
42.5°	9417.7	8661.4	8625.0	8877.1	9272.3	9189.9	9548.6	11274.6	11696.4	11589.7
45°	9439.5	9265.0	9776.5	10241.9	10406.8	9907.4	9434.7	11182.5	11798.2	11531.6
47.5°	9265.0	9783.8	10707.4	11606.7	11655.2	10348.6	9386.2	11088.0	11858.8	11681.9
50°	9289.3	10108.6	11512.2	12317.0	12140.0	10738.9	9311.1	11029.8	11827.3	11708.5
52°	9231.1	10115.9	11626.1	12302.4	12178.8	10523.1	9182.6	10806.8	11798.2	11883.1
52.5°	9296.5	10072.2	11507.3	12312.1	12152.1	10629.8	9165.6	10930.4	11815.2	11643.1
55°	9071.1	9553.5	10811.6	11153.4	11129.2	9648.0	8644.4	10520.7	11371.6	11374.0
57.5°	8198.4	8280.8	8479.6	8472.3	8360.8	7585.1	7393.6	9674.7	10137.7	9885.6
60°	7223.9	6062.7	5527.0	5308.8	5185.2	5059.2	6540.3	8850.5	8894.1	8787.5
62.5°	6242.1	4203.4	3490.7	3430.1	3459.2	3919.8	6322.1	8523.2	8261.4	8031.1
65°	5037.3	3064.1	2535.6	2455.6	2739.3	3236.2	5117.3	6535.4	6133.0	5941.5
67.5°	3163.5	2235.0	1713.9	1563.6	1905.4	2227.8	3362.3	4106.5	3655.6	3391.4
70°	1876.3	1248.4	775.7	695.7	783.0	1187.8	1883.5	2048.4	1694.5	1558.7
72.5°	739.4	458.2	215.7	184.2	191.5	416.9	693.3	676.3	511.5	455.7
75°	198.8	138.2	75.1	60.6	50.9	77.6	111.5	72.7	26.7	33.9
77.5°	92.1	82.4	65.5	50.9	38.8	29.1	14.5	4.8	4.8	2.4
80°	80.0	70.3	60.6	50.9	38.8	24.2	12.1	2.4	2.4	2.4
82.5°	75.1	65.5	55.8	46.1	36.4	24.2	12.1	2.4	0.0	0.0
85°	31.5	41.2	46.1	43.6	38.8	24.2	12.1	2.4	0.0	0.0
87.5°	17.0	14.5	12.1	9.7	7.3	4.8	4.8	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)