

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: P530681

Luminaire Tested: **GALN-SA5D-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530681
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-SA5D-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 17019 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 309
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



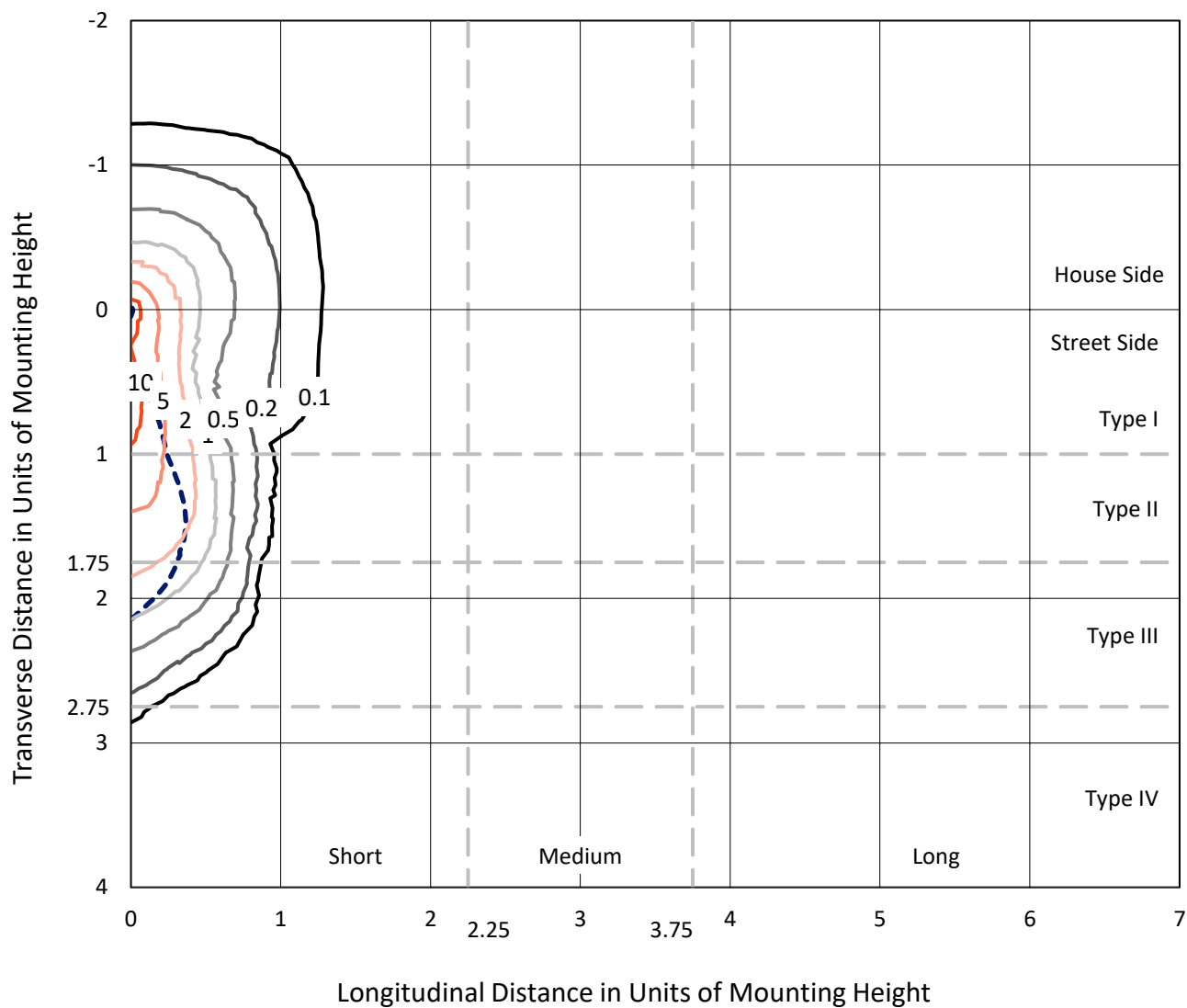
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



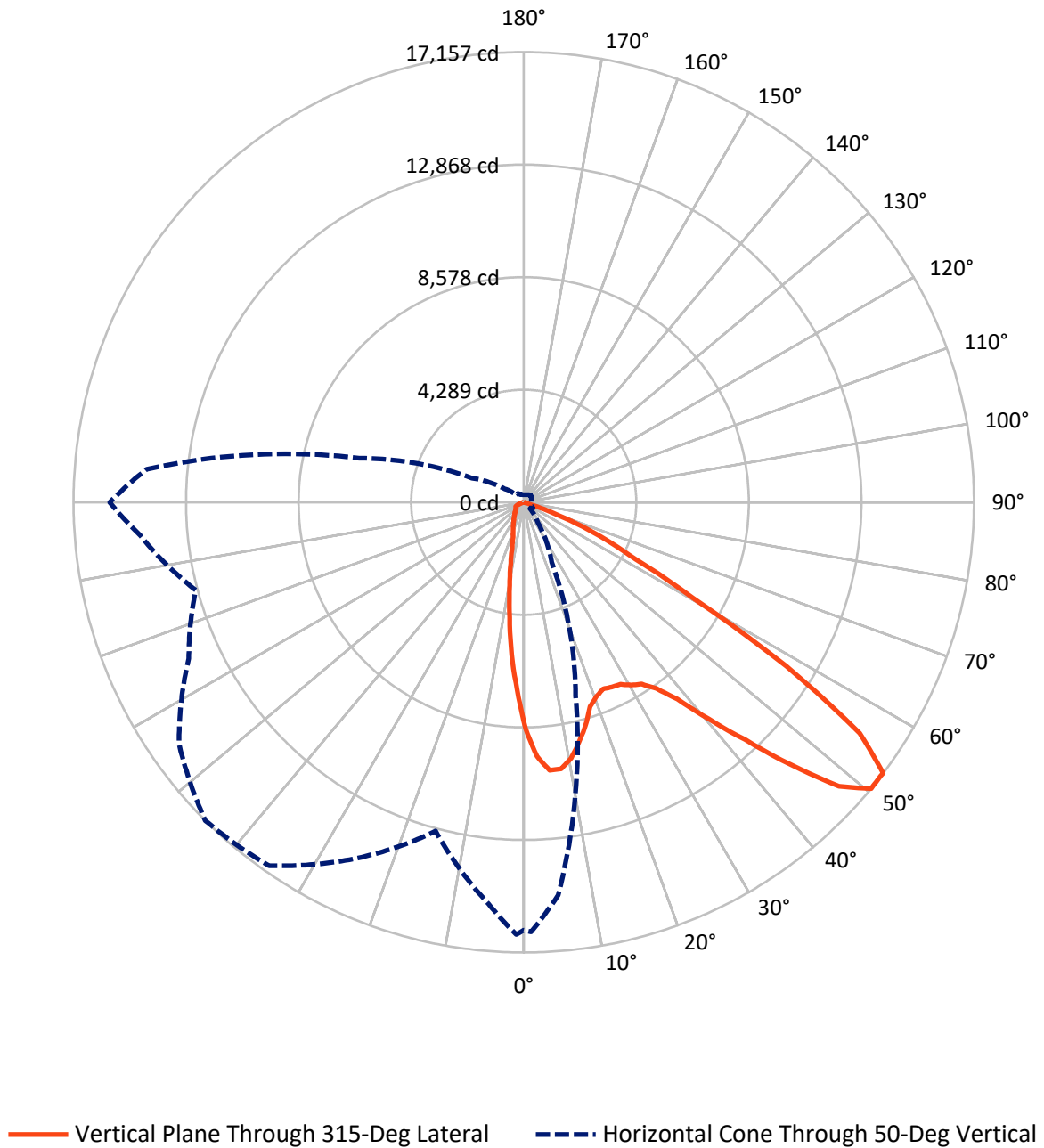
Based on 25 foot mounting height. Maximum calculated value = 13.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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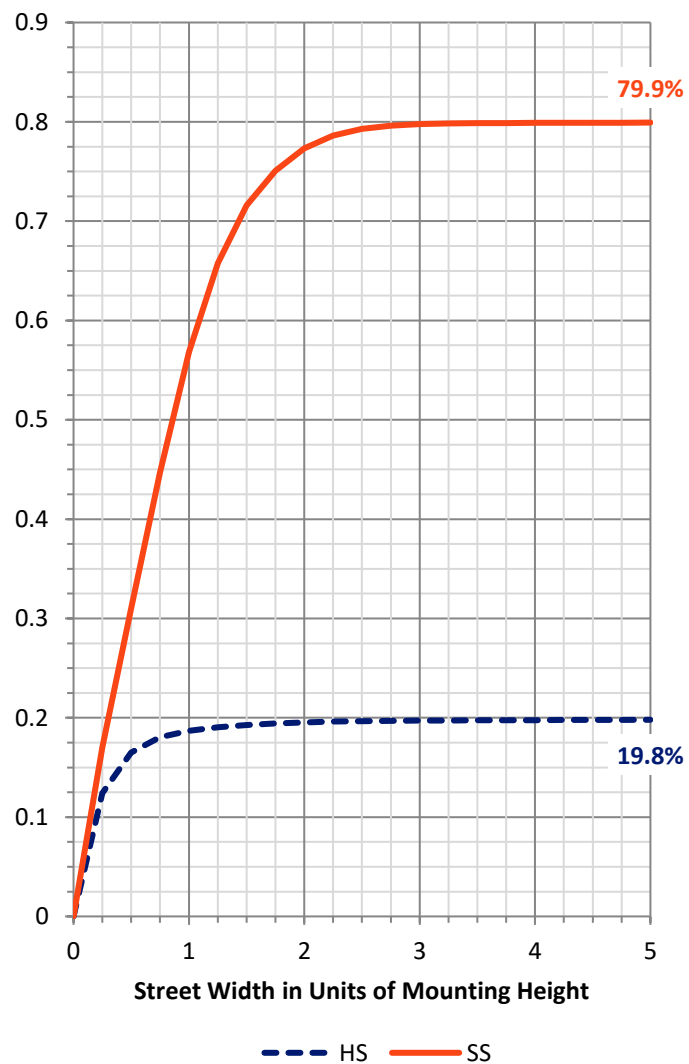
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3408.9	0.0	3408.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	13610.1	0.0	13610.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	17019.0	0.0	17019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.1	3.7
10°-20°	1250.3	7.3
20°-30°	1878.3	11.0
30°-40°	2819.3	16.6
40°-50°	3962.3	23.3
50°-60°	4274.1	25.1
60°-70°	1984.4	11.7
70°-80°	186.7	1.1
80°-90°	34.4	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°	17019.0	100.0
0°-180°	17019.0	100.0

Coefficient of Utilization



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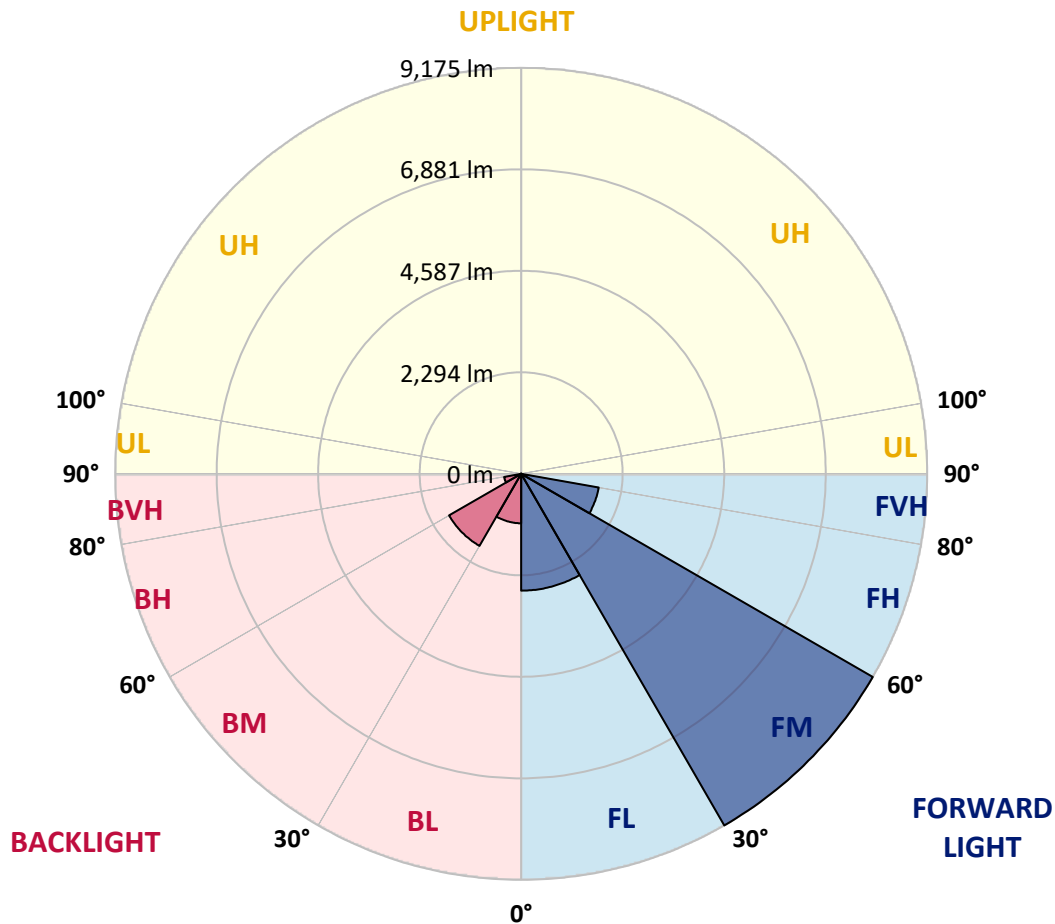
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2640.3	15.5			
FM	(30°-60°)	9174.5	53.9			
FH	(60°-80°)	1779.7	10.5			G1/1800
FVH	(80°-90°)	15.5	0.1			G1/100
BL	(0°-30°)	1117.4	6.6	B3/2500		
BM	(30°-60°)	1881.2	11.1	B2/2500		
BH	(60°-80°)	391.4	2.3	B1/500		G1/500
BVH	(80°-90°)	18.9	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°	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8
2.5°	8971.8	8833.4	8657.8	8512.6	8296.5	7860.9	7742.7	7600.9	7482.7	7324.0	7101.1
5°	8158.0	8114.1	8033.1	7486.1	7091.0	6564.3	6132.0	5949.7	5710.0	5514.1	5372.3
7.5°	7536.7	7361.1	7104.5	6554.1	5922.7	5358.8	4879.3	4599.0	4281.6	4173.6	3981.1
10°	6871.5	6912.1	6533.9	5760.6	4997.5	4541.6	4244.5	3974.3	3687.3	3498.2	3224.7
12.5°	6658.8	6527.1	6236.7	5281.1	4629.4	4204.0	3842.7	3508.4	3204.5	2900.6	2637.2
15°	6797.2	6594.6	6189.4	5179.8	4345.8	3815.6	3363.2	2910.7	2630.4	2242.1	1968.6
17.5°	7293.6	7131.5	6587.9	5287.9	4200.6	3444.2	2772.2	2306.3	1877.4	1526.3	1387.8
20°	8120.9	7891.3	7209.2	5426.3	3984.5	2995.1	2248.9	1674.8	1269.6	1121.1	1043.4
22.5°	8931.3	8806.4	7945.3	5693.1	3792.0	2596.7	1688.3	1127.8	948.8	921.8	871.2
25°	10474.4	10099.6	9069.7	6175.9	3643.4	2221.9	1273.0	908.3	803.6	783.4	790.1
27.5°	11392.9	11078.9	10109.8	6496.7	3478.0	1934.8	1077.2	834.0	763.1	719.2	702.3
30°	12274.2	11909.5	10626.4	6685.8	3123.4	1630.9	955.6	800.3	783.4	719.2	699.0
32.5°	12952.9	12595.0	11372.6	6969.5	2978.2	1435.1	786.8	624.7	580.8	574.0	634.8
35°	13992.9	13611.4	12010.8	7124.8	2866.8	1333.8	682.1	557.2	506.5	486.2	489.6
37.5°	14962.0	14702.0	12601.7	7185.6	2748.6	1303.4	611.2	499.7	455.9	442.3	439.0
40°	15772.4	15191.7	13162.3	7249.7	2698.0	1246.0	567.3	455.9	425.5	405.2	405.2
42.5°	16143.9	15553.0	13790.3	7212.6	2684.5	1154.8	567.3	418.7	395.1	374.8	371.4
45°	16062.8	15823.1	14070.6	7195.7	2684.5	1063.7	516.6	408.6	374.8	347.8	341.0
47.5°	16272.2	15958.2	14421.8	7266.6	2630.4	999.5	435.6	428.8	354.6	320.8	314.0
50°	16309.3	16370.1	15033.0	7634.7	2512.2	918.5	341.0	422.1	341.0	290.4	283.6
52°	16552.5	16174.3	15218.7	7830.5	2387.3	857.7	287.0	361.3	327.5	270.1	263.4
52.5°	16218.2	16464.7	15262.6	7901.4	2400.8	817.2	276.9	354.6	320.8	270.1	253.3
55°	15843.4	16079.7	15083.6	8053.4	2201.6	641.6	216.1	256.6	290.4	236.4	226.2
57.5°	13770.1	14009.8	13108.2	7374.7	1793.0	452.5	179.0	192.5	256.6	219.5	209.4
60°	12240.4	12068.2	11001.2	6152.3	1273.0	253.3	141.8	148.6	280.3	202.6	199.2
62.5°	11186.9	10818.9	9194.7	4751.0	776.6	168.8	111.4	114.8	216.1	189.1	189.1
65°	8276.2	7864.3	6108.4	2873.5	381.6	118.2	84.4	91.2	135.1	162.1	162.1
67.5°	4724.0	4565.3	2951.2	1296.6	158.7	74.3	64.2	70.9	104.7	131.7	124.9
70°	2171.2	1948.3	1134.6	273.5	74.3	50.7	50.7	57.4	84.4	97.9	91.2
72.5°	634.8	601.0	276.9	43.9	30.4	30.4	33.8	43.9	64.2	74.3	67.5
75°	47.3	30.4	20.3	13.5	13.5	20.3	27.0	43.9	64.2	70.9	57.4
77.5°	3.4	6.8	3.4	3.4	10.1	20.3	30.4	54.0	84.4	87.8	64.2
80°	3.4	3.4	0.0	3.4	10.1	20.3	33.8	60.8	94.5	101.3	54.0
82.5°	0.0	0.0	0.0	3.4	13.5	27.0	40.5	64.2	87.8	108.1	57.4
85°	0.0	0.0	0.0	3.4	20.3	37.1	47.3	16.9	10.1	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°	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8
2.5°	7259.8	7172.1	7138.3	7168.7	7158.5	7148.4	7334.1	7293.6	7286.9	7347.6	7334.1
5°	5450.0	5294.6	5720.1	5547.9	5726.8	5834.9	5855.2	5865.3	5990.2	5858.5	6030.7
7.5°	3883.2	3923.7	3920.3	4035.1	4241.1	4423.4	4531.5	4447.1	4440.3	4423.4	4349.2
10°	3103.2	3032.3	3018.7	2991.7	3055.9	3211.2	3342.9	3238.2	3163.9	3265.2	3234.9
12.5°	2535.9	2438.0	2383.9	2275.9	2279.3	2383.9	2383.9	2383.9	2458.2	2515.6	2559.5
15°	1945.0	1863.9	1863.9	1755.9	1732.2	1735.6	1789.6	1796.4	1914.6	1948.3	1965.2
17.5°	1360.8	1316.9	1367.6	1411.4	1384.4	1391.2	1411.4	1418.2	1435.1	1421.6	1455.3
20°	1046.8	1040.0	1053.5	1131.2	1188.6	1222.4	1198.7	1165.0	1144.7	1097.4	1097.4
22.5°	888.1	901.6	925.2	989.4	1063.7	1083.9	1056.9	979.2	918.5	911.7	915.1
25°	790.1	803.6	840.8	881.3	921.8	955.6	928.6	871.2	837.4	807.0	807.0
27.5°	729.4	736.1	756.4	786.8	820.5	847.5	837.4	807.0	769.9	756.4	726.0
30°	682.1	692.2	715.9	722.6	753.0	766.5	749.6	742.9	719.2	702.3	692.2
32.5°	658.5	655.1	672.0	678.7	682.1	692.2	672.0	682.1	678.7	651.7	641.6
35°	496.4	523.4	567.3	604.4	614.6	628.1	624.7	611.2	574.0	543.6	506.5
37.5°	445.7	462.6	486.2	516.6	557.2	574.0	567.3	533.5	489.6	469.4	462.6
40°	412.0	422.1	442.3	462.6	503.1	533.5	509.9	479.5	445.7	428.8	418.7
42.5°	381.6	384.9	395.1	415.3	445.7	493.0	452.5	412.0	398.4	388.3	381.6
45°	347.8	347.8	361.3	371.4	405.2	449.1	408.6	371.4	364.7	357.9	354.6
47.5°	320.8	324.2	330.9	344.4	371.4	401.8	374.8	344.4	327.5	324.2	317.4
50°	287.0	290.4	303.9	317.4	351.2	368.1	351.2	317.4	300.5	290.4	290.4
52°	260.0	270.1	283.6	310.7	334.3	361.3	341.0	303.9	283.6	273.5	266.8
52.5°	256.6	263.4	276.9	307.3	334.3	357.9	337.7	300.5	276.9	270.1	263.4
55°	229.6	239.7	263.4	300.5	330.9	357.9	330.9	297.1	263.4	246.5	239.7
57.5°	219.5	226.2	256.6	303.9	327.5	357.9	330.9	297.1	263.4	233.0	226.2
60°	209.4	222.9	256.6	293.8	324.2	361.3	334.3	293.8	256.6	219.5	219.5
62.5°	199.2	209.4	253.3	287.0	310.7	347.8	320.8	287.0	246.5	209.4	206.0
65°	172.2	189.1	222.9	239.7	266.8	300.5	273.5	249.9	216.1	185.7	182.3
67.5°	131.7	138.4	165.5	185.7	202.6	233.0	219.5	189.1	165.5	141.8	141.8
70°	91.2	97.9	118.2	128.3	145.2	162.1	152.0	128.3	111.4	97.9	94.5
72.5°	64.2	67.5	74.3	81.0	87.8	94.5	91.2	74.3	64.2	60.8	57.4
75°	50.7	57.4	60.8	57.4	54.0	50.7	50.7	43.9	37.1	33.8	33.8
77.5°	50.7	54.0	50.7	43.9	37.1	33.8	30.4	27.0	20.3	16.9	20.3
80°	43.9	43.9	43.9	37.1	33.8	30.4	27.0	23.6	20.3	16.9	16.9
82.5°	47.3	47.3	43.9	37.1	37.1	30.4	30.4	27.0	23.6	16.9	16.9
85°	0.0	0.0	0.0	6.8	16.9	30.4	30.4	27.0	23.6	20.3	20.3
87.5°	0.0	0.0	0.0	0.0	3.4	6.8	13.5	16.9	20.3	20.3	20.3
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°	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8
2.5°	7455.7	7584.0	7827.1	8070.3	8218.8	8394.4	8711.8	8880.7	9100.1	9208.2	9420.9
5°	6007.1	6311.0	6419.1	6695.9	6993.1	7290.2	7763.0	8283.0	8715.2	9012.3	9397.3
7.5°	4382.9	4453.8	4872.5	5058.3	5544.5	6084.8	6729.7	7384.8	7931.8	8418.0	8711.8
10°	3285.5	3545.5	3808.9	4163.4	4555.1	5112.3	5730.2	6452.8	7161.9	7648.2	8019.6
12.5°	2640.6	2846.5	3197.7	3579.3	4062.1	4430.2	5051.5	5767.4	6685.8	7161.9	7651.5
15°	1999.0	2262.4	2660.8	3055.9	3565.8	3954.1	4582.1	5483.7	6665.6	7320.6	7742.7
17.5°	1482.4	1661.3	2019.3	2461.6	2981.6	3528.6	4376.2	5453.3	6891.8	7671.8	8107.4
20°	1134.6	1195.3	1421.6	1816.7	2380.6	3096.4	4041.9	5585.0	7560.4	8526.1	8968.4
22.5°	918.5	945.5	1033.3	1306.8	1853.8	2718.2	3883.2	5676.2	8313.4	9549.2	10140.2
25°	800.3	793.5	850.9	969.1	1448.6	2363.7	3680.6	6020.6	9235.2	10751.3	11281.5
27.5°	729.4	729.4	756.4	840.8	1202.1	2134.1	3552.3	6267.1	10163.8	11808.2	12095.2
30°	692.2	699.0	776.6	803.6	999.5	1860.5	3339.5	6517.0	11051.9	12483.6	12878.6
32.5°	641.6	614.6	597.7	665.2	840.8	1614.1	3126.8	6621.7	11771.1	13310.8	13648.5
35°	493.0	479.5	499.7	550.4	722.6	1404.7	2890.4	6739.8	12598.4	14269.8	14337.4
37.5°	445.7	442.3	455.9	499.7	607.8	1222.4	2721.6	6709.5	13229.8	15063.3	14881.0
40°	412.0	412.0	422.1	459.2	543.6	1094.0	2546.0	6682.4	13841.0	15954.8	15421.3
42.5°	384.9	384.9	401.8	425.5	516.6	1009.6	2414.3	6645.3	14354.2	16501.8	15738.7
45°	347.8	357.9	384.9	408.6	523.4	952.2	2316.4	6503.5	14529.8	16495.1	15586.7
47.5°	320.8	334.3	361.3	395.1	472.7	935.3	2248.9	6378.5	14469.0	16089.9	15110.6
50°	290.4	307.3	344.4	401.8	401.8	901.6	2178.0	6490.0	14425.2	15775.8	14654.8
52°	270.1	283.6	330.9	391.7	351.2	830.7	2134.1	6706.1	14604.1	15735.3	14452.2
52.5°	266.8	276.9	320.8	384.9	334.3	817.2	2103.7	6756.7	14661.5	15634.0	14590.6
55°	236.4	249.9	293.8	300.5	273.5	672.0	2005.7	6871.5	14377.9	15434.8	14458.9
57.5°	222.9	229.6	260.0	246.5	236.4	506.5	1725.5	6692.6	12770.6	13709.3	13452.7
60°	206.0	212.7	243.1	192.5	199.2	354.6	1296.6	5811.3	10255.0	11423.3	11885.9
62.5°	199.2	195.8	229.6	155.3	168.8	256.6	915.1	4724.0	7901.4	9404.0	10204.3
65°	175.6	172.2	165.5	131.7	145.2	199.2	547.0	3082.9	5568.1	7114.7	7553.6
67.5°	135.1	141.8	121.6	104.7	121.6	155.3	303.9	1381.1	2920.8	4268.1	4622.7
70°	94.5	101.3	97.9	91.2	108.1	128.3	175.6	472.7	1208.8	2242.1	2471.7
72.5°	57.4	70.9	74.3	77.7	94.5	111.4	124.9	152.0	320.8	793.5	986.0
75°	33.8	47.3	57.4	67.5	77.7	94.5	104.7	108.1	111.4	148.6	239.7
77.5°	23.6	33.8	50.7	64.2	77.7	94.5	111.4	118.2	111.4	104.7	111.4
80°	20.3	33.8	47.3	60.8	81.0	97.9	111.4	111.4	108.1	94.5	101.3
82.5°	20.3	33.8	50.7	64.2	77.7	94.5	108.1	111.4	101.3	94.5	97.9
85°	23.6	37.1	54.0	67.5	84.4	77.7	70.9	57.4	54.0	43.9	47.3
87.5°	23.6	33.8	33.8	37.1	40.5	40.5	40.5	37.1	30.4	27.0	27.0
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: P530681

CATALOG NUMBER: GALN-SA5D-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8
2.5°	9431.0	9701.2	9691.1	9697.8	9657.3	9383.8	9252.1	8917.8	9012.3	8971.8
5°	9792.4	10059.1	10288.7	10261.7	9951.1	9579.6	9029.2	8509.2	8367.4	8158.0
7.5°	9431.0	10072.6	10285.3	10255.0	9795.7	9319.6	8441.7	7921.7	7675.2	7536.7
10°	8857.0	9599.9	9863.3	9917.3	9606.6	8884.0	8077.0	7243.0	7111.3	6871.5
12.5°	8529.5	9069.7	9231.8	9377.0	9269.0	8728.7	7800.1	6999.8	6817.5	6658.8
15°	8262.7	8583.5	8651.0	8816.5	8880.7	8590.3	7945.3	7263.2	6814.1	6797.2
17.5°	8509.2	8377.5	8131.0	8181.7	8384.3	8593.6	8320.1	7783.2	7347.6	7293.6
20°	8917.8	8337.0	7779.9	7904.8	8073.6	8715.2	8887.4	8509.2	8259.3	8120.9
22.5°	9387.2	8407.9	7668.4	7729.2	8050.0	8988.7	9805.9	9596.5	9130.5	8931.3
25°	10255.0	8603.8	7756.2	7796.7	8235.7	9370.3	10636.5	10791.8	10515.0	10474.4
27.5°	11102.5	9110.3	7948.7	7857.5	8330.3	9741.7	11139.6	11973.7	11487.4	11392.9
30°	11534.7	9522.2	8235.7	8080.4	8721.9	9967.9	11443.5	12743.6	12318.1	12274.2
32.5°	12196.5	9897.0	8458.6	8259.3	8941.4	10248.2	12010.8	13584.4	13172.4	12952.9
35°	12473.4	10305.6	8948.2	8715.2	9569.5	10639.9	12301.2	14334.0	14205.7	13992.9
37.5°	13006.9	10744.6	9525.6	9512.1	10329.2	11149.8	12824.6	15353.7	15330.1	14962.0
40°	13050.8	11224.1	10437.3	10862.8	11504.3	12037.8	13283.8	15637.4	16022.3	15772.4
42.5°	13118.4	12064.9	12014.2	12365.4	12915.8	12801.0	13300.7	15704.9	16292.5	16143.9
45°	13148.8	12905.6	13618.1	14266.4	14496.1	13800.5	13142.0	15576.6	16434.3	16062.8
47.5°	12905.6	13628.3	14914.8	16167.5	16235.0	14415.0	13074.5	15444.9	16518.7	16272.2
50°	12939.4	14080.7	16035.8	17156.9	16910.4	14958.7	12969.8	15363.9	16474.8	16309.3
52°	12858.4	14090.9	16194.5	17136.6	16964.4	14658.1	12790.8	15053.2	16434.3	16552.5
52.5°	12949.5	14030.1	16029.1	17150.1	16927.3	14806.7	12767.2	15225.4	16457.9	16218.2
55°	12635.5	13307.5	15060.0	15536.1	15502.3	13439.2	12041.2	14654.8	15840.0	15843.4
57.5°	11419.9	11534.7	11811.6	11801.5	11646.1	10565.6	10298.9	13476.3	14121.2	13770.1
60°	10062.5	8445.1	7698.8	7394.9	7222.7	7047.1	9110.3	12328.2	12389.0	12240.4
62.5°	8694.9	5855.2	4862.4	4778.0	4818.5	5460.1	8806.4	11872.4	11507.7	11186.9
65°	7016.7	4268.1	3532.0	3420.6	3815.6	4507.9	7128.2	9103.5	8543.0	8276.2
67.5°	4406.6	3113.3	2387.3	2178.0	2654.1	3103.2	4683.4	5720.1	5092.0	4724.0
70°	2613.5	1739.0	1080.5	969.1	1090.7	1654.6	2623.7	2853.3	2360.3	2171.2
72.5°	1029.9	638.2	300.5	256.6	266.8	580.8	965.7	942.1	712.5	634.8
75°	276.9	192.5	104.7	84.4	70.9	108.1	155.3	101.3	37.1	47.3
77.5°	128.3	114.8	91.2	70.9	54.0	40.5	20.3	6.8	6.8	3.4
80°	111.4	97.9	84.4	70.9	54.0	33.8	16.9	3.4	3.4	3.4
82.5°	104.7	91.2	77.7	64.2	50.7	33.8	16.9	3.4	0.0	0.0
85°	43.9	57.4	64.2	60.8	54.0	33.8	16.9	3.4	0.0	0.0
87.5°	23.6	20.3	16.9	13.5	10.1	6.8	6.8	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)