

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: P651626

Luminaire Tested: **GALN-SA9D-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42356.1 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

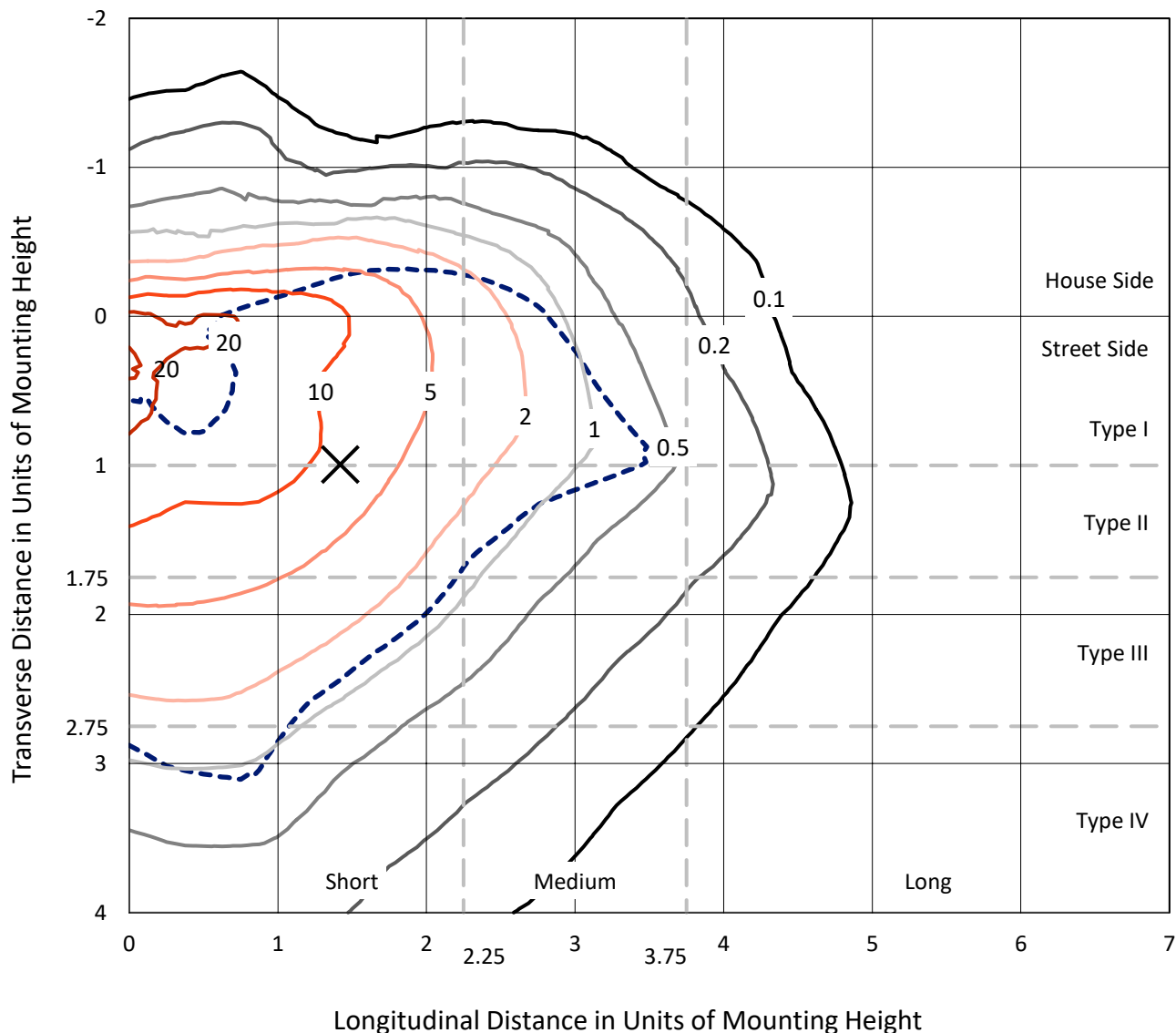
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

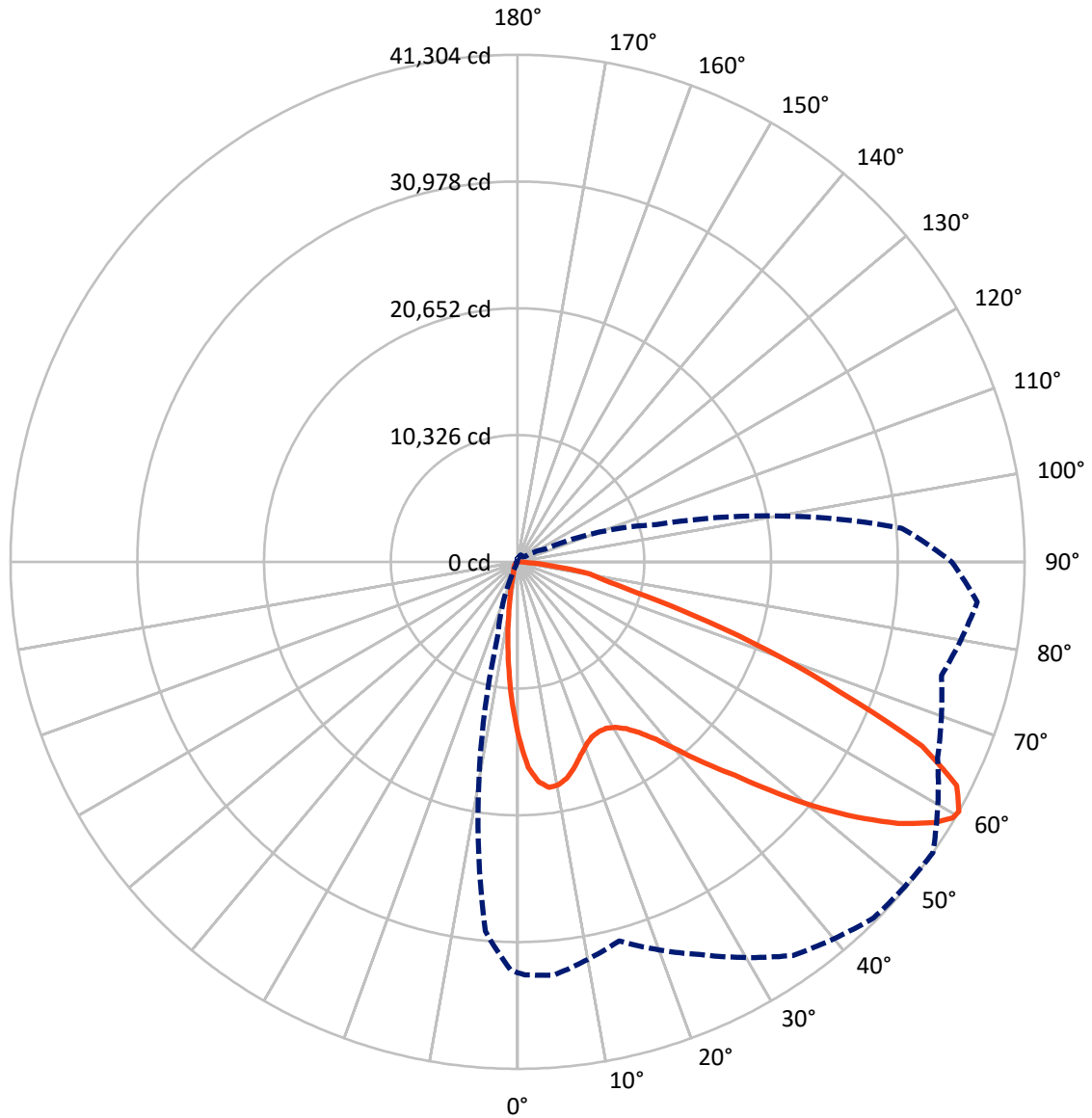
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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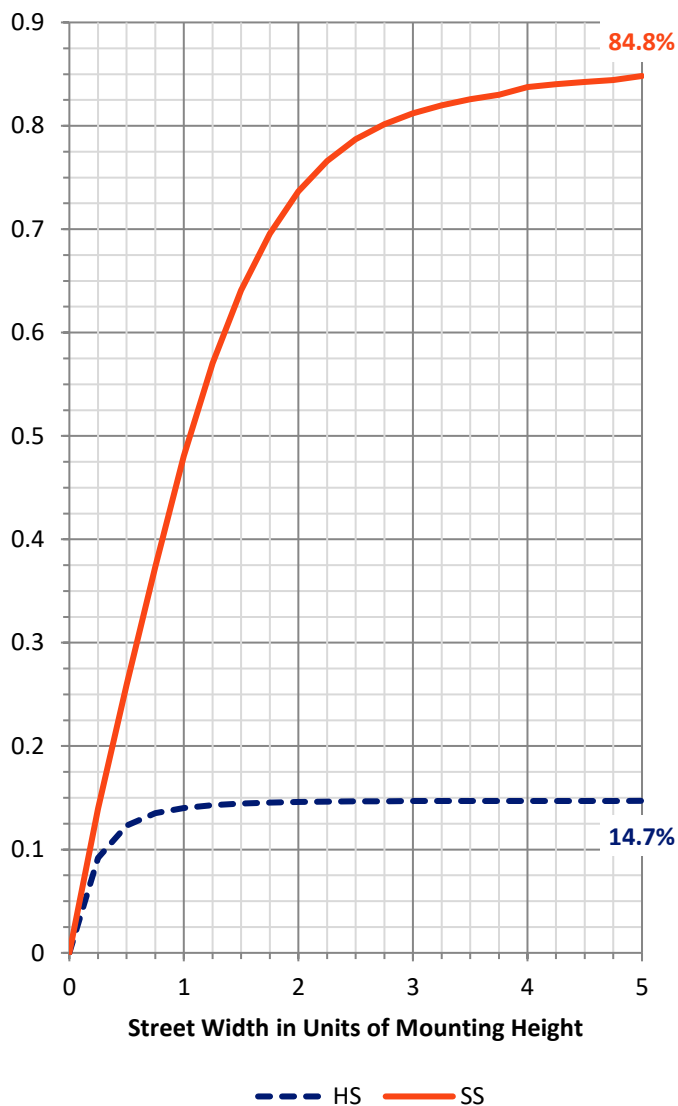
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6286.0	0.0	6286.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	36070.1	0.0	36070.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	42356.1	0.0	42356.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1062.0	2.5
10°-20°	2091.4	4.9
20°-30°	3095.6	7.3
30°-40°	4614.3	10.9
40°-50°	6757.7	16.0
50°-60°	9756.0	23.0
60°-70°	10262.9	24.2
70°-80°	4221.8	10.0
80°-90°	494.5	1.2
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°	42356.1	100.0
0°-180°	42356.1	100.0

Coefficient of Utilization



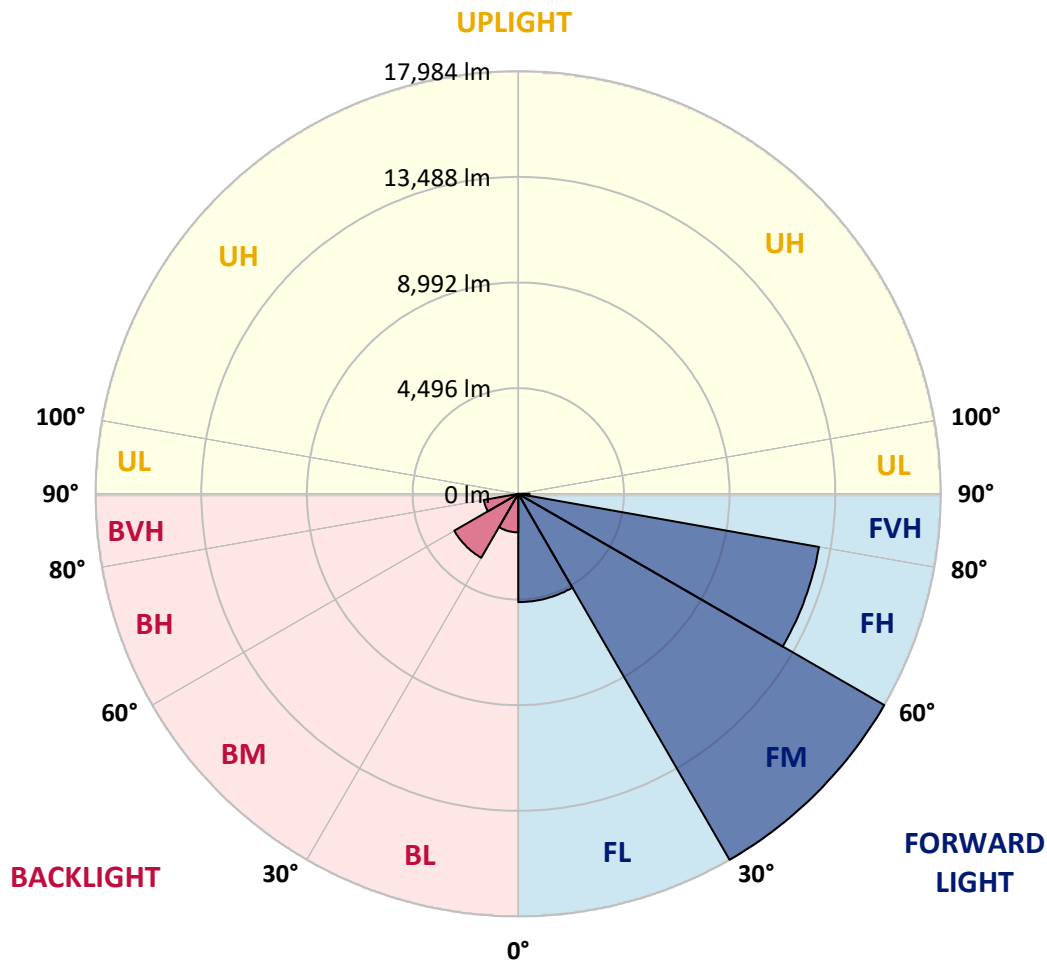
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4608.9	10.9			
FM (30°-60°)	17984.5	42.5			
FH (60°-80°)	12996.8	30.7			G5
FVH (80°-90°)	479.9	1.1			G3/500
BL (0°-30°)	1640.1	3.9	B3/2500		
BM (30°-60°)	3143.6	7.4	B3/5000		
BH (60°-80°)	1487.9	3.5	B3/2500		G3/2500
BVH (80°-90°)	14.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7
2.5°	15668.6	15642.5	15874.0	16252.2	16633.6	16832.4	16793.3	16777.0	16460.8	16229.4	15743.5
5°	15636.0	15769.7	16183.7	17207.4	17983.4	18358.3	18469.1	18002.9	17386.7	16493.4	15391.5
7.5°	14700.3	14866.5	15541.4	17142.2	18521.3	19336.3	19307.0	18560.4	17288.9	15906.6	14335.2
10°	13539.7	13735.3	14527.5	16470.6	18260.5	19336.3	19395.0	18449.5	16868.4	15094.8	13441.9
12.5°	12721.3	12952.8	13829.8	15844.6	17588.8	18648.4	18716.9	18032.2	16552.1	14781.8	12956.1
15°	12444.2	12662.7	13552.7	15528.4	16874.8	17445.4	17429.1	17357.4	16428.2	14856.8	12982.2
17.5°	12920.2	13099.5	14103.7	15671.9	16206.5	16147.8	16232.6	16578.2	16454.2	15486.0	13803.8
20°	14149.3	14331.9	15411.0	16112.0	15694.7	15323.0	15362.1	15939.1	16695.5	16669.5	15088.2
22.5°	15841.3	16151.1	17129.2	16966.2	15626.2	14811.1	14729.6	15479.4	17106.4	18032.2	16822.7
25°	17983.4	18296.3	19059.2	18328.9	15962.0	14690.5	14615.5	15339.3	17605.2	19362.4	18775.6
27.5°	19782.9	20020.9	20780.6	19655.8	16457.5	14742.6	14618.8	15358.8	18009.4	20493.7	20421.9
30°	21224.0	21400.0	21846.7	20275.2	16884.6	14970.9	14827.4	15645.7	18188.7	21044.7	21755.4
32.5°	22384.6	22681.3	22821.5	20937.0	17497.5	15401.2	15156.8	16196.7	18625.5	21726.1	23154.0
35°	23711.5	24053.9	23874.6	21569.5	18306.0	16072.9	15772.9	17090.0	19287.4	22355.3	24777.6
37.5°	25393.7	25788.3	25087.3	22234.6	19160.3	17083.5	16943.3	18345.2	20291.6	23255.1	26518.6
40°	27134.7	27362.9	26264.3	23043.1	20210.1	18553.9	18687.5	20210.1	21605.4	24334.3	28370.4
42.5°	28494.3	28709.4	27473.8	23721.3	21282.7	20298.0	20855.5	22459.6	23111.6	25439.4	29752.6
45°	29534.2	29716.8	28311.7	24461.3	22730.2	22824.7	23877.8	24777.6	24621.1	26114.3	30818.8
47.5°	30342.8	30499.3	28957.2	25256.8	24898.2	25915.4	27525.9	27907.4	26186.0	26844.6	31783.8
50°	30675.3	30721.0	29159.3	26270.7	27359.7	29853.7	31532.8	31301.3	27979.1	27656.4	32810.8
52.5°	31108.9	31099.2	29736.4	27235.8	29674.4	33374.7	35050.5	34525.7	30007.0	28872.5	33964.9
55°	32246.7	32259.8	30972.0	28605.1	31646.8	36217.7	38010.8	37629.4	32145.7	30926.3	35311.3
57.5°	33629.1	33678.0	32729.3	30205.9	33531.3	38278.1	40221.2	40074.5	35037.5	33211.8	36582.8
59°	33808.4	33906.2	33560.6	31333.9	34649.5	38910.6	40977.6	41121.0	36586.1	34718.0	37270.8
60°	33482.4	33645.4	33801.9	31972.9	35304.8	39138.8	41023.2	41303.6	37750.0	35741.7	37583.7
62.5°	32060.9	32318.5	33104.2	33938.8	36123.1	38428.1	39565.9	40152.8	39191.0	38431.3	37613.1
65°	30199.3	30333.0	31467.5	34287.7	34535.4	35109.2	35461.3	36214.4	37459.8	39468.1	36266.6
67.5°	27147.7	27542.2	28931.1	32263.0	29850.5	29172.4	29084.3	28334.5	31568.6	36996.9	32947.7
70°	22426.9	22603.1	24314.7	26450.1	22528.0	21484.8	21902.1	21621.7	24471.2	31849.0	26518.6
72.5°	16959.6	17357.4	19029.8	21083.8	15329.5	13976.5	15127.4	15023.0	18381.1	25595.9	18218.1
75°	12066.1	12323.6	14455.8	16499.9	10735.9	9096.0	9510.0	9898.0	12832.2	20210.1	10765.2
77.5°	8290.7	8512.4	10113.2	10911.9	7831.1	7501.7	6862.7	7237.6	8408.1	11991.1	5858.6
80°	5001.2	4991.4	6044.4	6240.1	5454.3	6334.6	5314.1	5966.2	5082.7	5131.5	2269.1
82.5°	3247.2	3214.6	3697.1	4029.7	3035.3	3191.8	2141.9	3087.4	3312.4	1431.2	717.2
85°	1454.1	1516.0	1776.8	2344.1	1330.1	707.4	436.9	948.7	1411.7	720.5	0.0
87.5°	150.0	117.4	313.0	570.5	182.6	19.6	65.2	32.6	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°	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7
2.5°	15518.6	15329.5	14765.5	14237.4	13784.2	13229.9	12871.3	12307.3	11965.0	11860.6	11876.9
5°	14895.9	14351.4	13278.8	12421.4	11466.2	10921.7	10093.6	9298.1	8867.8	8708.1	8636.3
7.5°	13591.8	13008.3	11714.0	10367.5	9343.8	8388.6	7772.4	7071.4	6592.2	6197.7	6129.2
10°	12623.5	11857.4	10253.4	8805.9	7997.3	7280.0	6663.8	5962.9	5398.9	4949.0	4825.2
12.5°	12043.2	11185.8	9395.9	8183.1	7416.9	6680.1	5878.2	5066.4	4489.3	4003.6	3778.6
15°	11938.9	10944.5	9154.7	7736.4	6791.0	5901.0	4834.9	3957.9	3364.5	2904.8	2764.6
17.5°	12568.1	11378.1	9118.8	7270.3	5972.7	4711.0	3602.5	2875.5	2207.2	1949.6	1848.5
20°	13689.6	12144.3	9115.5	6729.1	5131.5	3628.6	2529.9	1874.6	1604.0	1480.2	1421.5
22.5°	15218.7	13187.6	9288.3	6262.8	4257.8	2676.7	1806.1	1493.2	1336.7	1235.6	1212.8
25°	17086.8	14732.9	9712.2	5946.6	3589.5	2099.6	1489.9	1278.0	1147.6	1102.0	1082.4
27.5°	18746.2	16213.1	10178.4	5620.6	3110.3	1858.4	1382.4	1170.4	1066.1	1030.2	1000.9
30°	20177.4	17556.2	10403.3	5190.2	2725.5	1701.8	1401.9	1251.9	1115.0	1007.4	958.5
32.5°	21370.7	18586.4	10550.0	4799.0	2399.5	1392.1	1108.4	968.2	906.3	867.2	834.6
35°	22863.8	19701.4	10462.0	4577.3	2233.3	1268.2	1010.6	834.6	730.3	652.0	619.5
37.5°	24428.8	20816.4	10308.8	4394.7	2158.3	1176.9	961.8	792.2	678.1	596.6	554.2
40°	26049.0	21849.9	10129.5	4225.3	2089.8	1118.3	932.4	756.4	642.3	554.2	508.6
42.5°	27532.5	22857.4	10057.8	4114.4	1979.0	1128.0	909.6	740.1	606.4	515.1	476.0
45°	28732.3	23812.6	10155.6	4055.7	1858.4	1111.7	916.1	720.5	577.1	489.0	449.9
47.5°	30013.5	25162.3	10471.8	3997.0	1741.0	1033.5	965.0	717.2	564.0	472.7	430.3
50°	31503.4	26890.2	11195.6	3853.5	1597.5	948.7	1026.9	714.0	547.7	453.1	410.8
52.5°	33488.9	28852.9	11942.1	3602.5	1388.8	867.2	981.4	704.2	515.1	430.3	388.0
55°	35272.2	30919.9	12574.6	3305.9	1124.8	749.8	883.6	661.8	459.7	391.2	352.1
57.5°	36009.0	32087.0	12555.0	2895.1	899.8	658.6	727.0	606.4	401.0	345.6	313.0
59°	35738.5	31940.3	12134.5	2591.9	821.6	609.6	603.2	599.9	374.9	313.0	286.9
60°	35357.0	31405.6	11681.3	2441.9	772.7	577.1	554.2	593.3	352.1	293.4	267.4
62.5°	33896.4	29188.7	10178.4	2187.6	707.4	489.0	443.4	502.1	313.0	254.3	231.4
65°	31780.5	25781.8	8616.7	2115.9	687.9	404.3	368.4	358.6	267.4	215.2	195.6
67.5°	27653.1	21817.3	6980.1	2067.0	694.4	339.1	322.8	270.6	221.7	179.3	166.3
70°	22140.1	17011.7	5715.2	2011.6	701.0	277.1	270.6	215.2	179.3	150.0	136.9
72.5°	13451.6	10083.8	4499.1	1747.5	681.4	221.7	241.3	163.0	130.4	107.6	101.1
75°	8316.8	6901.8	2790.8	1359.5	449.9	163.0	169.5	101.1	88.1	68.5	68.5
77.5°	4818.6	4358.9	997.6	489.0	198.9	97.8	75.0	52.1	48.9	29.4	29.4
80°	1998.5	1600.8	345.6	166.3	107.6	45.7	16.3	3.3	0.0	0.0	0.0
82.5°	583.6	518.4	94.5	75.0	32.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7
2.5°	11599.8	11492.3	11443.3	11609.6	11456.4	11652.0	11502.0	11567.2	11759.6	11844.3	12062.8
5°	8682.0	8571.1	8518.9	8769.9	8756.9	8880.8	8867.8	8981.9	9079.7	8861.3	9086.2
7.5°	6047.7	5972.7	6096.6	6292.2	6500.8	6432.4	6432.4	6279.2	6331.3	6298.8	6288.9
10°	4600.2	4342.6	4277.4	4270.9	4349.1	4365.5	4277.4	4065.5	4143.7	4166.6	4303.5
12.5°	3618.8	3419.9	3116.7	2979.8	2944.0	2973.3	2683.1	2497.3	2585.3	2533.2	2666.8
15°	2595.2	2432.1	2252.8	2099.6	2057.2	1998.5	1682.3	1460.6	1434.5	1444.2	1467.1
17.5°	1851.8	1741.0	1741.0	1578.0	1489.9	1313.9	1154.1	1056.3	1046.5	1056.3	1072.6
20°	1366.0	1307.3	1300.9	1258.5	1160.7	1043.3	932.4	912.8	906.3	922.7	929.1
22.5°	1176.9	1115.0	1062.9	1059.6	968.2	870.4	818.3	792.2	795.5	802.0	818.3
25°	1053.0	987.8	932.4	899.8	834.6	766.2	717.2	704.2	704.2	714.0	717.2
27.5°	965.0	883.6	834.6	788.9	730.3	671.6	629.2	619.5	612.9	619.5	635.7
30°	903.1	821.6	759.6	691.1	645.6	590.1	554.2	541.2	537.9	541.2	554.2
32.5°	772.7	723.8	674.9	612.9	557.5	521.7	482.5	459.7	459.7	466.3	479.3
35°	583.6	557.5	554.2	537.9	492.3	453.1	407.5	384.7	384.7	397.7	404.3
37.5°	515.1	466.3	459.7	453.1	433.6	381.5	339.1	319.5	316.2	326.1	339.1
40°	469.4	414.0	384.7	378.2	381.5	322.8	277.1	257.6	257.6	260.8	273.8
42.5°	433.6	368.4	316.2	309.7	322.8	270.6	225.0	205.4	205.4	205.4	221.7
45°	404.3	329.3	267.4	234.7	254.3	221.7	182.6	163.0	156.5	163.0	169.5
47.5°	384.7	299.9	234.7	189.1	189.1	176.0	146.7	123.9	117.4	120.6	130.4
50°	368.4	273.8	198.9	153.2	136.9	140.2	110.8	94.5	88.1	88.1	97.8
52.5°	342.3	247.8	172.8	130.4	104.4	94.5	81.5	68.5	65.2	68.5	75.0
55°	309.7	225.0	150.0	107.6	81.5	65.2	58.7	48.9	45.7	48.9	58.7
57.5°	273.8	189.1	120.6	84.8	55.4	42.4	39.1	32.6	26.1	29.4	35.8
59°	251.0	169.5	104.4	68.5	42.4	29.4	29.4	22.8	16.3	19.6	29.4
60°	241.3	156.5	88.1	58.7	35.8	22.8	22.8	16.3	9.8	13.0	22.8
62.5°	205.4	130.4	68.5	35.8	16.3	3.3	9.8	3.3	0.0	3.3	9.8
65°	172.8	104.4	45.7	16.3	0.0	0.0	0.0	0.0	0.0	0.0	3.3
67.5°	143.5	78.2	22.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	114.1	52.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	78.2	29.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	48.9	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P651626

CATALOG NUMBER: GALN-SA9D-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7	14341.7
2.5°	12075.8	12542.0	12829.0	13370.1	13924.4	14351.4	14886.1	15365.4	15564.2	15668.6
5°	9314.4	9963.2	10514.2	11339.0	12105.2	13037.6	13983.1	15098.1	15525.1	15636.0
7.5°	6536.8	7198.5	7775.6	8730.8	9823.0	11071.7	12486.6	13901.6	14524.2	14700.3
10°	4720.8	5428.2	6132.5	7087.7	8108.2	9461.2	10934.8	12685.5	13402.8	13539.7
12.5°	2979.8	3739.4	4883.8	6064.0	7143.1	8232.0	9774.1	11678.0	12470.3	12721.3
15°	1727.9	2295.2	3159.1	4698.0	6070.5	7511.6	9193.8	11299.9	12186.7	12444.2
17.5°	1157.4	1353.0	1946.3	3123.3	4936.0	6846.4	9047.1	11609.6	12590.9	12920.2
20°	974.8	1062.9	1271.5	1903.9	3801.4	6253.1	9086.2	12450.8	13738.5	14149.3
22.5°	857.4	939.0	1072.6	1369.3	2653.8	5516.3	9272.0	13653.8	15316.5	15841.3
25°	756.4	837.9	955.2	1134.6	1783.3	4665.4	9679.6	15414.3	17406.3	17983.4
27.5°	671.6	746.6	847.6	1000.9	1372.5	3716.6	10041.5	17129.2	19313.5	19782.9
30°	593.3	655.3	753.1	870.4	1141.1	2865.7	10224.0	18628.8	20702.3	21224.0
32.5°	515.1	573.8	668.3	762.9	939.0	2184.3	10096.9	19730.8	22052.0	22384.6
35°	440.1	502.1	580.3	668.3	811.8	1763.7	9461.2	20969.7	23450.7	23711.5
37.5°	378.2	430.3	511.8	580.3	733.5	1411.7	8691.7	22084.7	25018.8	25393.7
40°	319.5	371.6	453.1	515.1	674.9	1111.7	7997.3	23323.5	26671.8	27134.7
42.5°	260.8	322.8	394.5	495.5	580.3	847.6	7156.2	24327.7	27913.9	28494.3
45°	208.7	277.1	355.3	492.3	505.4	645.6	6344.3	25110.2	29012.6	29534.2
47.5°	166.3	234.7	342.3	459.7	414.0	511.8	5881.4	25928.5	29925.5	30342.8
50°	133.6	195.6	358.6	404.3	345.6	433.6	5868.4	26841.3	30398.2	30675.3
52.5°	107.6	159.8	303.2	309.7	293.4	381.5	6220.5	27868.3	30880.7	31108.9
55°	91.2	133.6	198.9	228.2	264.1	345.6	6484.5	29449.5	32031.6	32246.7
57.5°	71.7	114.1	153.2	182.6	234.7	316.2	6520.4	30668.8	33488.9	33629.1
59°	62.0	97.8	136.9	163.0	215.2	296.7	6373.7	30743.8	33583.4	33808.4
60°	52.1	88.1	120.6	153.2	198.9	280.4	6214.0	30199.3	33231.4	33482.4
62.5°	39.1	68.5	88.1	123.9	163.0	241.3	5457.6	28298.6	31884.8	32060.9
65°	26.1	48.9	65.2	91.2	127.2	208.7	4447.0	25833.9	29804.9	30199.3
67.5°	16.3	35.8	52.1	68.5	104.4	176.0	3168.9	22153.1	26893.5	27147.7
70°	9.8	22.8	39.1	55.4	81.5	140.2	1881.1	17510.6	22374.8	22426.9
72.5°	6.6	16.3	26.1	39.1	65.2	127.2	912.8	11414.0	16336.9	16959.6
75°	3.3	9.8	16.3	29.4	52.1	104.4	436.9	7625.6	11886.7	12066.1
77.5°	0.0	3.3	9.8	19.6	39.1	81.5	254.3	5007.7	8104.9	8290.7
80°	0.0	0.0	6.6	16.3	29.4	52.1	153.2	2953.8	4909.8	5001.2
82.5°	0.0	0.0	3.3	13.0	19.6	39.1	78.2	1297.6	3214.6	3247.2
85°	0.0	0.0	3.3	13.0	16.3	26.1	29.4	176.0	1427.9	1454.1
87.5°	0.0	0.0	3.3	16.3	16.3	16.3	16.3	9.8	120.6	150.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)