

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: P647284

Luminaire Tested: **GALN-SA2D-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9071.8 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 125
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

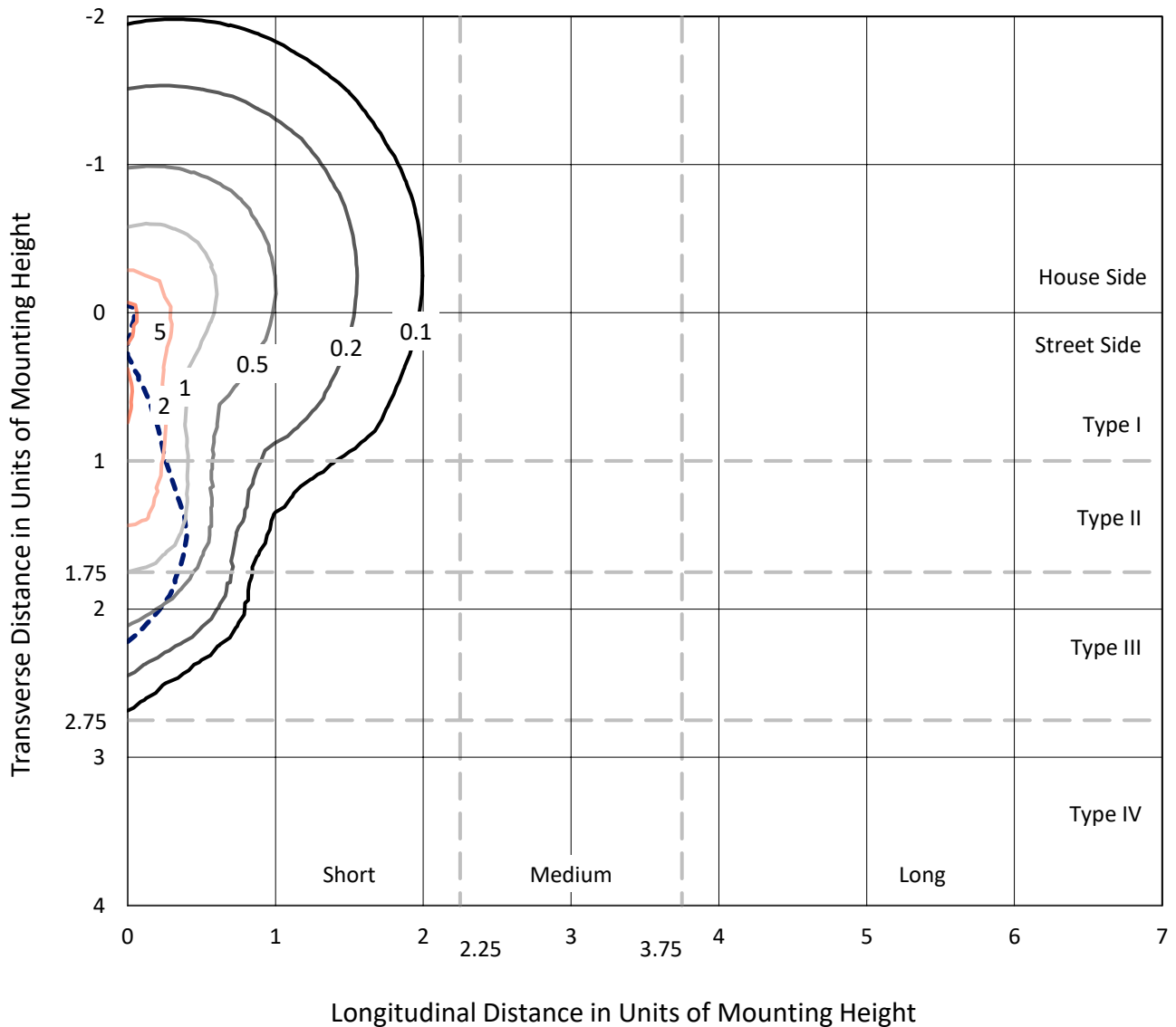




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Iso-Footcandle Lines of Horizontal Illumination

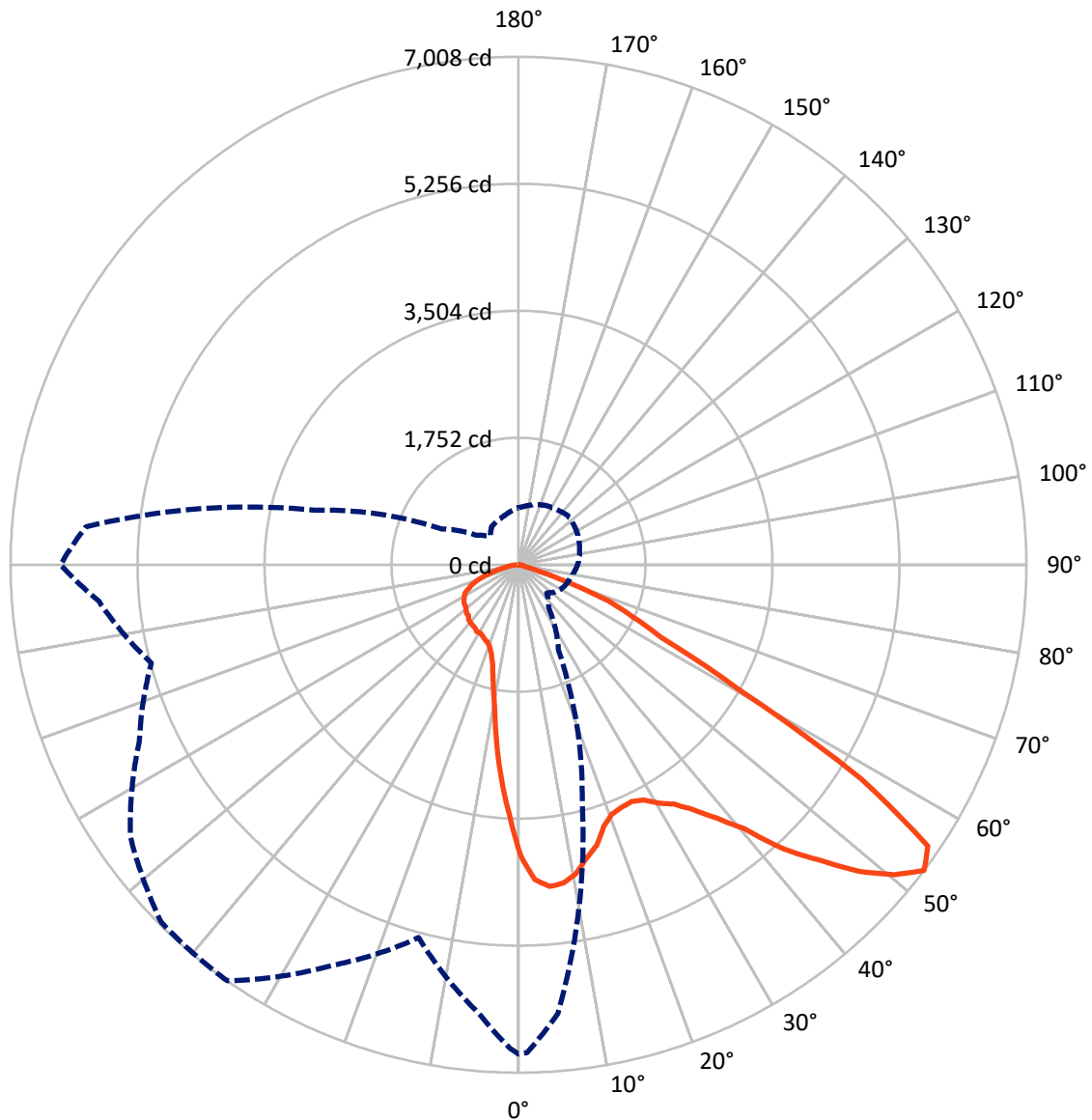
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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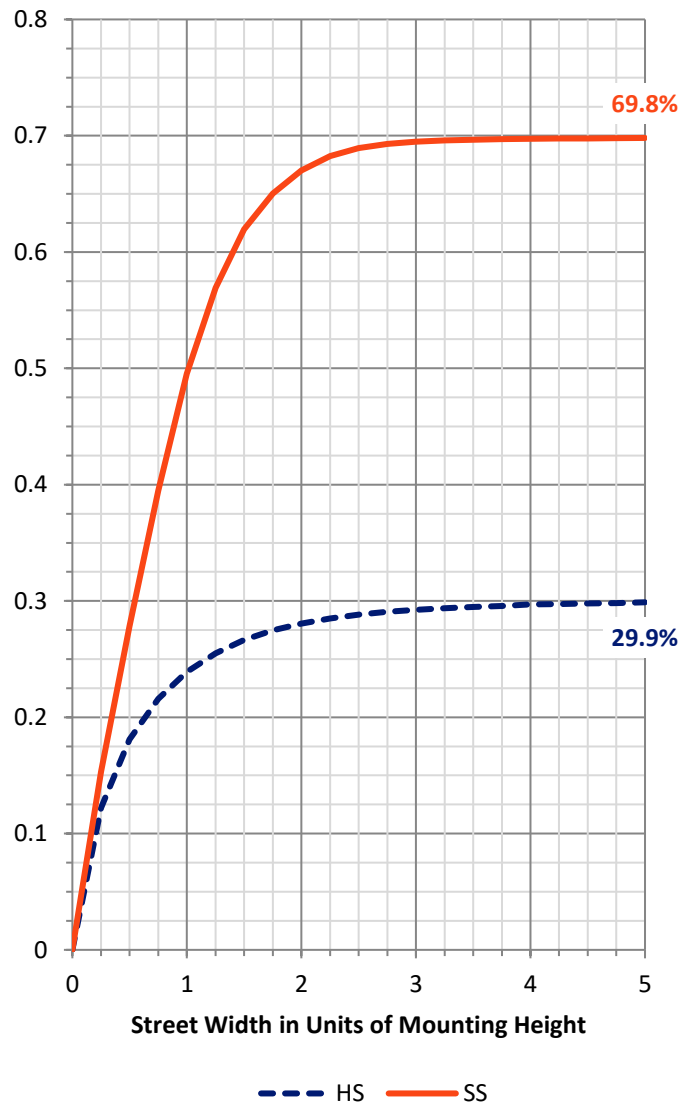
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2734.8	0.0	2734.8
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	6337.1	0.0	6337.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	9071.8	0.0	9071.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.2	3.4
10°-20°	665.9	7.3
20°-30°	1006.1	11.1
30°-40°	1453.8	16.0
40°-50°	1934.8	21.3
50°-60°	2164.1	23.9
60°-70°	1219.7	13.4
70°-80°	271.9	3.0
80°-90°	48.4	0.5
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°	9071.8	100.0
0°-180°	9071.8	100.0

Coefficient of Utilization



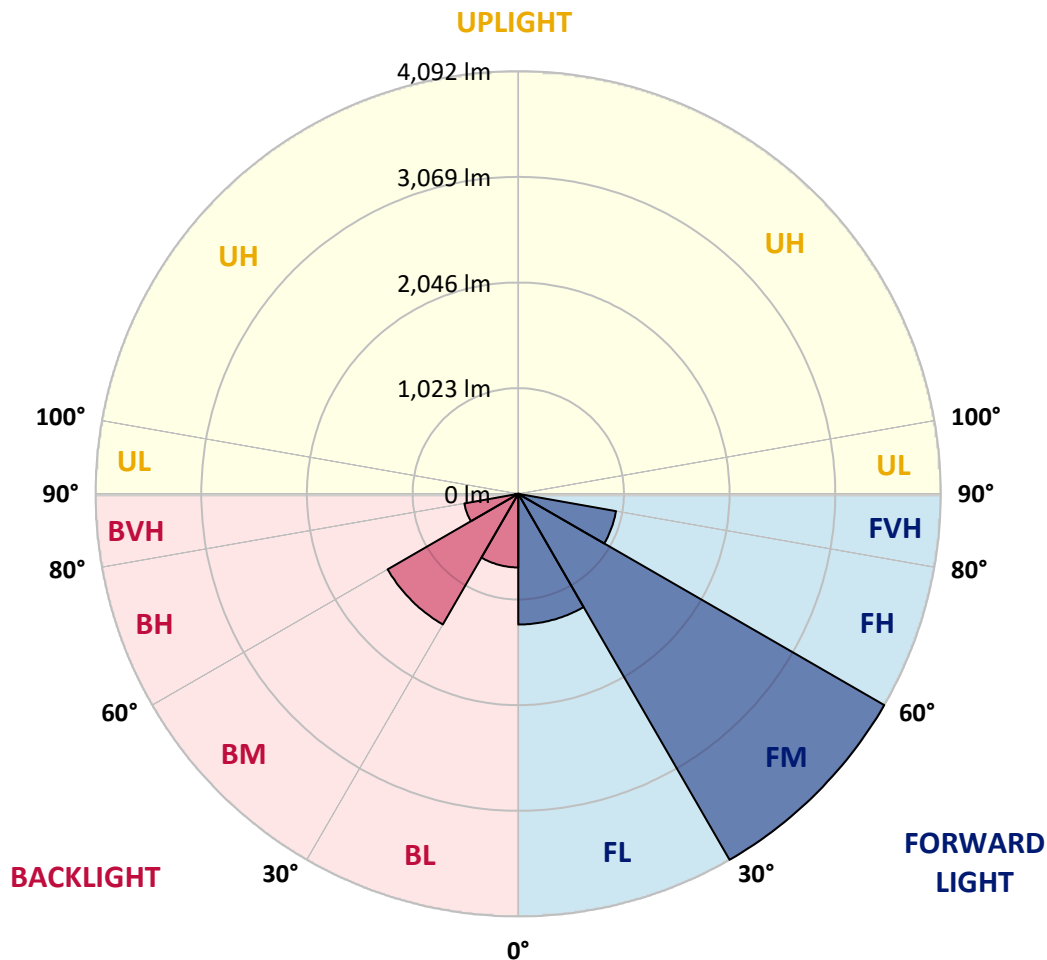
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1266.0	14.0			
FM (30°-60°)	4092.1	45.1			
FH (60°-80°)	961.5	10.6			G1/1800
FVH (80°-90°)	17.5	0.2			G1/100
BL (0°-30°)	713.2	7.9	B2/1000		
BM (30°-60°)	1460.6	16.1	B2/2500		
BH (60°-80°)	530.1	5.8	B2/1000		G2/1000
BVH (80°-90°)	30.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1
2.5°	4093.2	4158.9	4088.0	3961.7	3872.3	3790.7	3705.3	3688.2	3576.4	3556.7	3475.2
5°	3860.4	3846.0	3759.2	3593.6	3410.7	3245.1	3122.8	3004.4	2924.3	2830.9	2824.4
7.5°	3577.8	3493.6	3443.6	3192.5	2966.3	2706.0	2594.2	2414.1	2357.5	2273.4	2230.0
10°	3325.3	3263.5	3146.5	2895.4	2579.8	2407.6	2287.8	2190.6	2124.8	2038.1	1928.9
12.5°	3200.4	3175.4	3043.9	2654.8	2420.6	2236.6	2152.5	2057.8	1946.0	1806.6	1752.7
15°	3222.7	3138.6	3038.7	2608.7	2285.3	2107.8	1973.6	1855.3	1712.0	1579.2	1501.6
17.5°	3389.8	3325.3	3125.4	2637.6	2234.0	1977.5	1734.3	1559.4	1430.6	1310.9	1257.0
20°	3718.5	3625.1	3400.3	2674.4	2123.5	1796.1	1517.4	1301.7	1163.7	1100.6	1082.1
22.5°	4082.6	4027.4	3668.5	2757.3	2035.4	1627.8	1287.3	1071.6	1020.3	1003.3	1037.4
25°	4525.8	4382.5	4085.3	2892.7	1967.1	1484.5	1092.7	973.0	946.7	963.8	1003.3
27.5°	4862.4	4824.3	4377.2	3020.3	1873.7	1312.2	983.5	904.6	912.5	929.6	966.5
30°	5262.2	5068.8	4659.9	3108.4	1789.5	1193.9	907.3	886.2	894.1	923.1	941.5
32.5°	5502.8	5430.4	4837.5	3241.2	1692.2	1091.3	848.1	828.3	840.2	883.6	927.0
35°	5809.1	5665.8	5057.0	3275.4	1623.9	1050.6	806.0	791.5	819.2	849.4	898.0
37.5°	6166.8	6068.2	5360.7	3251.6	1587.1	1008.5	770.6	764.0	783.6	825.8	882.3
40°	6378.5	6348.2	5519.8	3266.1	1529.2	971.7	729.8	737.7	778.4	811.3	866.5
42.5°	6582.2	6385.1	5755.2	3260.9	1492.4	921.7	733.7	724.5	756.1	794.2	846.8
45°	6626.9	6431.0	5810.4	3224.1	1447.7	873.0	703.4	707.4	745.5	792.9	827.1
47.5°	6598.0	6453.4	5913.0	3213.5	1405.6	838.9	658.7	706.1	728.4	766.6	815.3
50°	6578.3	6570.4	5999.7	3263.5	1349.0	785.0	604.9	689.0	711.4	749.5	802.1
52.5°	6751.9	6734.7	6216.7	3395.0	1304.3	727.1	549.6	645.6	699.5	736.3	787.6
55°	6857.0	6782.1	6588.8	3556.7	1229.4	650.8	511.5	591.7	670.6	703.4	756.1
57.5°	6168.1	6116.8	5960.4	3320.1	1103.2	550.9	464.2	536.4	631.2	682.4	736.3
60°	5131.9	5051.8	4650.7	2821.7	813.9	428.6	435.2	493.1	620.6	640.3	703.4
62.5°	4838.7	4640.2	4094.5	2270.8	624.6	368.2	390.5	453.6	565.4	598.3	661.4
65°	3839.4	3692.2	2929.5	1639.7	418.1	319.5	356.3	409.0	487.8	552.2	610.1
67.5°	2403.6	2262.9	1563.4	775.8	291.9	273.5	318.2	373.4	437.9	495.7	560.2
70°	1255.7	1101.8	721.8	280.1	201.2	223.5	265.6	318.2	381.3	428.6	478.6
72.5°	468.1	380.0	235.4	121.0	139.4	170.9	215.6	253.8	298.5	356.3	383.9
75°	72.3	61.8	60.4	73.6	94.7	123.6	153.9	192.0	231.5	268.3	286.7
77.5°	34.2	32.9	36.8	48.6	63.1	88.1	111.7	148.6	180.2	203.8	214.3
80°	22.3	21.1	23.6	32.9	47.4	65.8	89.4	114.4	143.3	163.0	160.4
82.5°	13.2	14.5	14.5	22.3	32.9	47.4	64.4	86.8	106.5	123.6	113.1
85°	7.9	6.6	6.6	13.2	22.3	38.1	53.9	36.8	38.1	38.1	43.4
87.5°	2.7	2.7	2.7	1.3	2.7	2.7	3.9	6.6	7.9	9.2	11.8
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°	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1
2.5°	3472.6	3513.3	3498.8	3447.6	3487.0	3493.6	3467.3	3558.0	3575.1	3547.5	3555.4
5°	2815.1	2825.7	2849.3	2899.3	2934.8	2976.9	2976.9	2979.5	2944.0	3033.4	3007.1
7.5°	2193.2	2199.8	2227.4	2333.9	2364.1	2444.4	2478.5	2454.9	2383.8	2353.6	2378.6
10°	1893.5	1855.3	1846.1	1859.2	1927.6	1961.8	1990.7	1982.8	1971.0	1947.3	1921.0
12.5°	1693.6	1665.9	1643.6	1612.0	1616.0	1648.8	1671.2	1652.8	1658.1	1663.3	1671.2
15°	1476.6	1456.8	1445.0	1397.7	1392.5	1414.8	1422.7	1433.2	1452.9	1454.3	1445.0
17.5°	1246.5	1229.4	1255.7	1282.0	1263.6	1264.9	1279.3	1288.6	1283.3	1259.6	1247.8
20°	1088.7	1107.1	1133.4	1158.4	1178.1	1189.9	1195.2	1180.8	1163.7	1115.0	1113.7
22.5°	1042.7	1066.4	1088.7	1126.8	1145.2	1175.5	1147.9	1115.0	1091.3	1067.7	1040.1
25°	1008.5	1028.2	1072.9	1087.4	1122.9	1147.9	1128.1	1095.3	1054.5	1020.3	999.3
27.5°	983.5	1005.8	1034.8	1074.3	1101.8	1116.3	1096.6	1083.4	1041.4	1000.6	970.4
30°	967.7	991.4	1044.0	1076.9	1100.6	1112.4	1078.2	1062.5	1032.2	998.0	971.7
32.5°	957.2	978.3	1023.0	1065.0	1080.9	1080.9	1086.1	1067.7	1025.6	967.7	945.4
35°	923.1	952.0	988.8	1037.4	1066.4	1083.4	1057.1	1036.1	1008.5	949.3	908.6
37.5°	903.3	923.1	970.4	1016.4	1041.4	1059.8	1049.3	1012.4	975.6	927.0	894.1
40°	882.3	913.8	955.9	999.3	1026.9	1045.3	1037.4	994.0	949.3	903.3	881.0
42.5°	867.8	888.9	932.2	980.9	1013.8	1049.3	1025.6	971.7	940.1	877.0	852.1
45°	856.0	890.2	936.2	955.9	990.1	1026.9	984.9	952.0	915.2	869.1	848.1
47.5°	841.5	873.0	903.3	955.9	971.7	988.8	980.9	928.3	896.8	846.8	832.3
50°	836.2	848.1	903.3	932.2	954.6	971.7	950.6	911.2	881.0	829.7	798.1
52.5°	815.3	837.6	873.0	911.2	938.8	959.9	925.7	900.7	859.9	806.0	786.3
55°	789.0	802.1	865.2	904.6	919.1	933.6	920.4	879.6	837.6	782.4	762.6
57.5°	754.7	785.0	836.2	891.4	909.9	917.8	896.8	863.9	811.3	762.6	731.1
60°	719.3	750.8	807.4	852.1	870.5	899.4	867.8	848.1	787.6	733.7	699.5
62.5°	683.7	719.3	761.3	817.8	833.7	845.5	837.6	809.9	761.3	700.9	658.7
65°	641.7	668.0	720.5	749.5	760.0	787.6	760.0	749.5	706.1	648.2	612.7
67.5°	578.6	600.9	646.9	674.6	682.4	694.3	693.0	681.1	632.4	593.0	561.5
70°	506.2	525.9	554.9	587.7	591.7	606.1	593.0	590.4	558.8	504.9	487.8
72.5°	406.3	424.7	462.8	477.3	478.6	483.9	477.3	468.1	460.2	403.6	386.6
75°	311.6	322.1	340.5	353.7	353.7	360.3	356.3	347.1	326.1	290.6	273.5
77.5°	217.0	227.5	251.1	259.0	257.7	260.3	248.5	239.3	207.7	189.3	174.8
80°	157.8	164.4	176.2	181.4	182.8	186.7	172.3	164.4	146.0	124.9	118.3
82.5°	114.4	118.3	119.6	126.2	126.2	119.6	115.7	107.8	94.7	81.5	76.3
85°	47.4	48.6	50.0	57.9	59.2	71.0	65.8	61.8	53.9	46.0	42.0
87.5°	11.8	13.2	17.1	14.5	17.1	17.1	18.4	21.1	21.1	17.1	17.1
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°	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1
2.5°	3585.7	3596.2	3730.3	3747.4	3813.1	3880.2	4015.6	4112.9	4191.8	4243.1	4257.6
5°	3034.8	3101.8	3163.6	3263.5	3354.2	3483.1	3631.7	3815.8	4047.2	4165.5	4212.9
7.5°	2375.9	2454.9	2544.3	2641.6	2774.4	3005.8	3204.3	3417.3	3713.2	3835.4	4020.9
10°	1939.4	2027.5	2145.9	2220.8	2381.3	2602.1	2833.5	3079.5	3362.1	3538.3	3752.6
12.5°	1714.6	1786.9	1896.0	2053.8	2173.5	2316.8	2489.1	2799.4	3204.3	3371.4	3518.6
15°	1466.1	1546.3	1672.5	1847.4	1990.7	2161.6	2355.0	2692.9	3124.2	3381.9	3506.7
17.5°	1260.9	1318.8	1451.6	1602.8	1767.2	1953.9	2231.3	2687.6	3208.3	3538.3	3742.1
20°	1119.0	1126.8	1199.2	1328.0	1551.5	1794.8	2155.1	2661.3	3477.9	3807.9	4065.6
22.5°	1029.6	1021.7	1023.0	1132.1	1288.6	1638.3	2035.4	2750.7	3784.2	4236.5	4410.1
25°	984.9	963.8	950.6	974.3	1116.3	1452.9	1944.7	2869.1	4114.2	4590.2	4803.2
27.5°	961.1	924.3	898.0	902.0	1005.8	1359.6	1888.1	2920.4	4441.6	5083.3	5158.2
30°	952.0	905.9	867.8	854.6	923.1	1229.4	1767.2	3008.4	4734.9	5354.2	5418.6
32.5°	919.1	862.6	825.8	813.9	841.5	1115.0	1680.4	3071.6	4993.9	5648.7	5626.3
35°	881.0	833.7	787.6	765.2	785.0	1041.4	1610.7	3041.3	5299.0	5877.5	5865.6
37.5°	877.0	815.3	777.1	740.2	739.0	950.6	1516.0	3070.2	5493.5	6287.7	6126.0
40°	842.8	803.4	753.4	723.2	706.1	904.6	1424.0	3001.9	5778.9	6453.4	6294.3
42.5°	844.2	785.0	741.6	706.1	689.0	837.6	1360.9	2983.5	5878.8	6722.9	6373.2
45°	823.1	765.2	728.4	686.4	677.1	786.3	1300.4	2898.0	6055.0	6736.1	6274.6
47.5°	802.1	750.8	711.4	661.4	640.3	767.9	1253.0	2826.9	5962.9	6612.5	6137.9
50°	787.6	728.4	691.6	656.2	597.0	736.3	1191.3	2809.9	5834.1	6445.5	5884.1
52.5°	762.6	710.0	671.9	644.3	549.6	707.4	1167.6	2909.8	5991.9	6320.6	5810.4
55°	739.0	685.0	636.4	582.5	510.2	631.2	1101.8	3003.2	6222.0	6608.5	6144.4
57.5°	713.9	662.7	610.1	545.7	472.1	552.2	1033.5	3020.3	5790.7	6107.6	5832.8
60°	681.1	615.4	575.9	491.7	431.3	457.6	819.2	2662.6	4491.6	5100.4	5109.6
62.5°	644.3	573.3	539.1	440.5	389.2	394.5	668.0	2237.9	3643.5	4222.0	4473.2
65°	595.6	527.3	486.5	407.6	358.9	341.9	489.1	1639.7	2767.8	3425.2	3710.6
67.5°	532.5	468.1	416.8	355.0	320.8	293.2	333.9	923.1	1634.4	2299.7	2386.5
70°	465.5	410.2	356.3	305.1	266.9	247.2	244.5	409.0	781.0	1237.3	1408.2
72.5°	366.8	327.4	284.0	245.9	220.9	192.0	174.8	169.6	264.3	503.6	695.5
75°	263.0	230.1	205.1	180.2	161.8	146.0	132.8	121.0	110.5	126.2	173.6
77.5°	165.7	153.9	134.1	127.6	117.1	113.1	107.8	101.2	93.3	88.1	88.1
80°	111.7	103.9	97.3	96.0	92.0	90.7	92.0	85.5	77.6	71.0	73.6
82.5°	74.9	73.6	72.3	71.0	72.3	73.6	76.3	74.9	68.4	64.4	65.8
85°	44.7	47.4	50.0	52.6	57.9	51.3	42.0	35.5	31.6	28.9	27.6
87.5°	17.1	23.6	21.1	19.7	21.1	19.7	18.4	17.1	14.5	13.2	13.2
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: P647284

CATALOG NUMBER: GALN-SA2D-835-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1	4026.1
2.5°	4353.6	4379.9	4402.2	4396.9	4350.9	4289.1	4264.1	4136.6	4110.3	4093.2
5°	4412.7	4565.2	4598.1	4578.4	4458.7	4307.5	4160.2	3973.6	3864.4	3860.4
7.5°	4303.6	4491.6	4550.8	4595.5	4436.4	4173.4	3921.0	3640.9	3572.5	3577.8
10°	4026.1	4325.9	4471.9	4517.9	4335.2	4107.7	3757.9	3473.9	3327.9	3325.3
12.5°	3872.3	4107.7	4148.4	4212.9	4158.9	3928.9	3663.3	3345.1	3203.0	3200.4
15°	3735.5	3890.7	3902.6	3993.3	4022.2	3867.0	3688.2	3349.0	3234.6	3222.7
17.5°	3855.2	3747.4	3702.7	3714.5	3800.0	3856.5	3832.9	3572.5	3455.5	3389.8
20°	3935.4	3694.8	3559.4	3572.5	3673.8	3880.2	4048.5	3896.0	3710.6	3718.5
22.5°	4149.7	3702.7	3491.0	3476.5	3637.0	4003.8	4291.8	4304.9	4126.1	4082.6
25°	4470.5	3793.4	3469.9	3466.0	3619.8	4136.6	4575.8	4788.7	4606.0	4525.8
27.5°	4728.3	3935.4	3535.7	3548.9	3673.8	4244.4	4817.7	5100.4	4961.0	4862.4
30°	4954.4	4082.6	3627.7	3567.3	3818.4	4300.9	4921.5	5455.4	5343.7	5262.2
32.5°	5047.8	4291.8	3773.7	3673.8	3938.0	4369.3	5137.2	5799.9	5703.9	5502.8
35°	5205.5	4408.8	3852.6	3844.7	4147.1	4533.6	5238.4	6027.4	5987.9	5809.1
37.5°	5331.8	4527.1	4132.7	4045.8	4433.7	4809.8	5401.5	6341.6	6250.9	6166.8
40°	5429.1	4738.8	4394.3	4508.7	4786.2	5060.9	5551.4	6361.3	6623.0	6378.5
42.5°	5339.7	4928.1	4824.3	5097.7	5360.7	5347.6	5568.5	6513.9	6709.8	6582.2
45°	5317.4	5249.0	5504.0	5752.5	5813.1	5585.6	5446.2	6345.6	6683.5	6626.9
47.5°	5263.4	5564.5	6009.0	6413.9	6321.9	5744.6	5300.3	6315.4	6699.3	6598.0
50°	5245.0	5632.9	6382.4	6776.9	6721.7	5882.8	5231.8	6120.7	6587.5	6578.3
52.5°	5243.7	5773.6	6537.6	6974.1	7008.2	6101.0	5325.3	6219.4	6674.3	6751.9
55°	5302.9	5728.9	6517.8	6865.0	6851.8	6003.7	5335.8	6285.1	6780.8	6857.0
57.5°	5001.8	5131.9	5379.1	5654.0	5582.9	4972.8	4765.1	5810.4	6223.3	6168.1
60°	4319.3	3911.7	3633.0	3619.8	3481.8	3291.1	3899.9	5185.9	5185.9	5131.9
62.5°	3782.9	2567.9	2206.3	2103.8	2202.4	2422.0	3761.8	5043.9	4900.6	4838.7
65°	3308.3	1960.5	1595.0	1566.0	1736.9	2068.3	3401.6	4297.0	4044.5	3839.4
67.5°	2128.7	1435.9	1186.0	1134.7	1341.2	1518.7	2264.2	2642.9	2483.8	2403.6
70°	1372.8	934.9	660.1	619.3	699.5	936.2	1446.4	1541.0	1309.6	1255.7
72.5°	649.6	403.6	231.5	190.7	214.3	357.7	572.0	615.4	511.5	468.1
75°	206.4	148.6	94.7	81.5	77.6	92.0	131.5	101.2	73.6	72.3
77.5°	92.0	88.1	74.9	63.1	55.2	46.0	38.1	31.6	32.9	34.2
80°	76.3	69.7	61.8	55.2	46.0	35.5	27.6	21.1	21.1	22.3
82.5°	67.0	60.4	53.9	46.0	39.5	28.9	21.1	14.5	13.2	13.2
85°	28.9	34.2	36.8	39.5	31.6	23.6	14.5	9.2	7.9	7.9
87.5°	11.8	10.5	9.2	7.9	6.6	6.6	5.2	3.9	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)