

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: P527664

Luminaire Tested: **GALN-SA2D-722-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-722-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8517 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

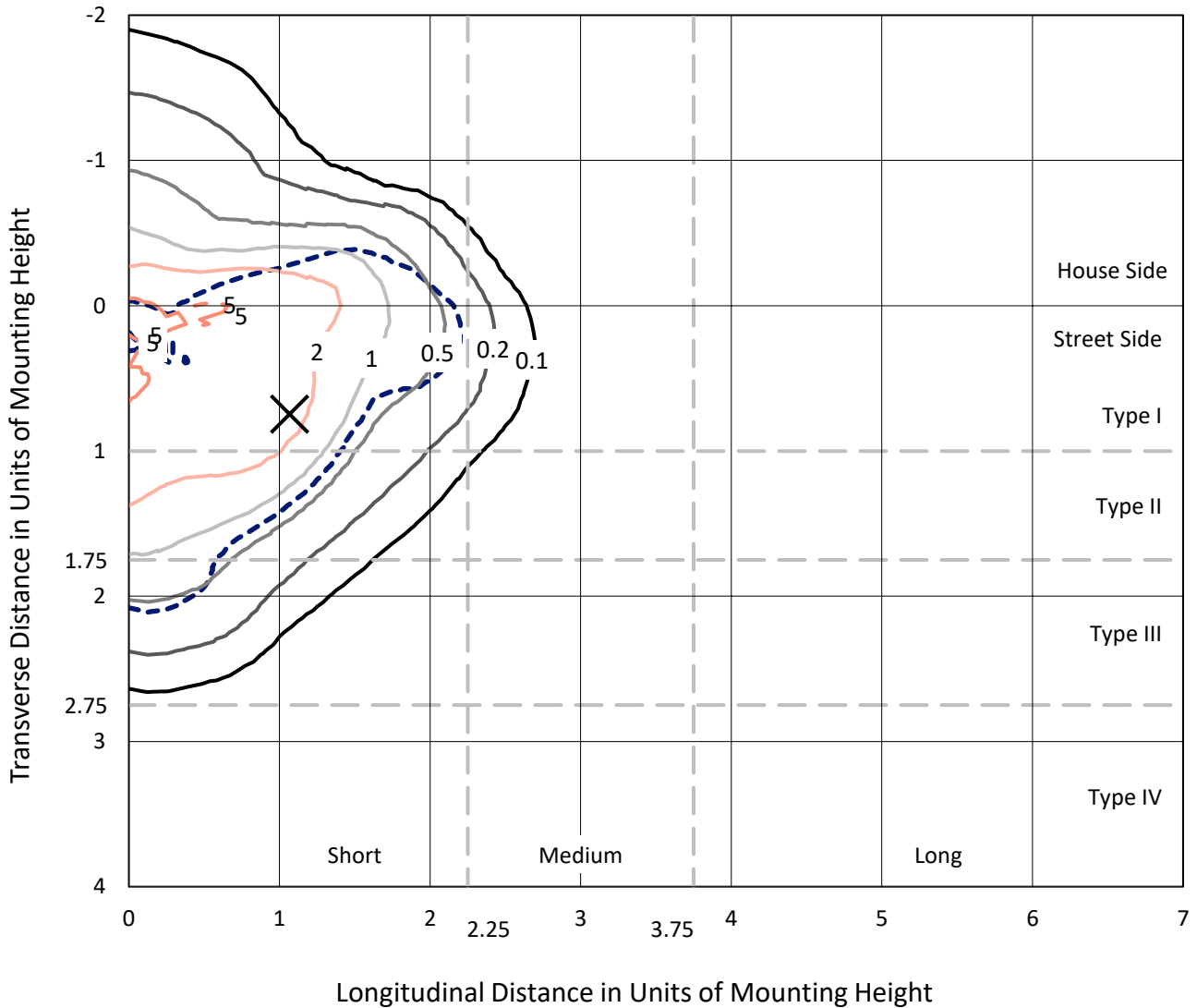
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527664
 CATALOG NUMBER: GALN-SA2D-722-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

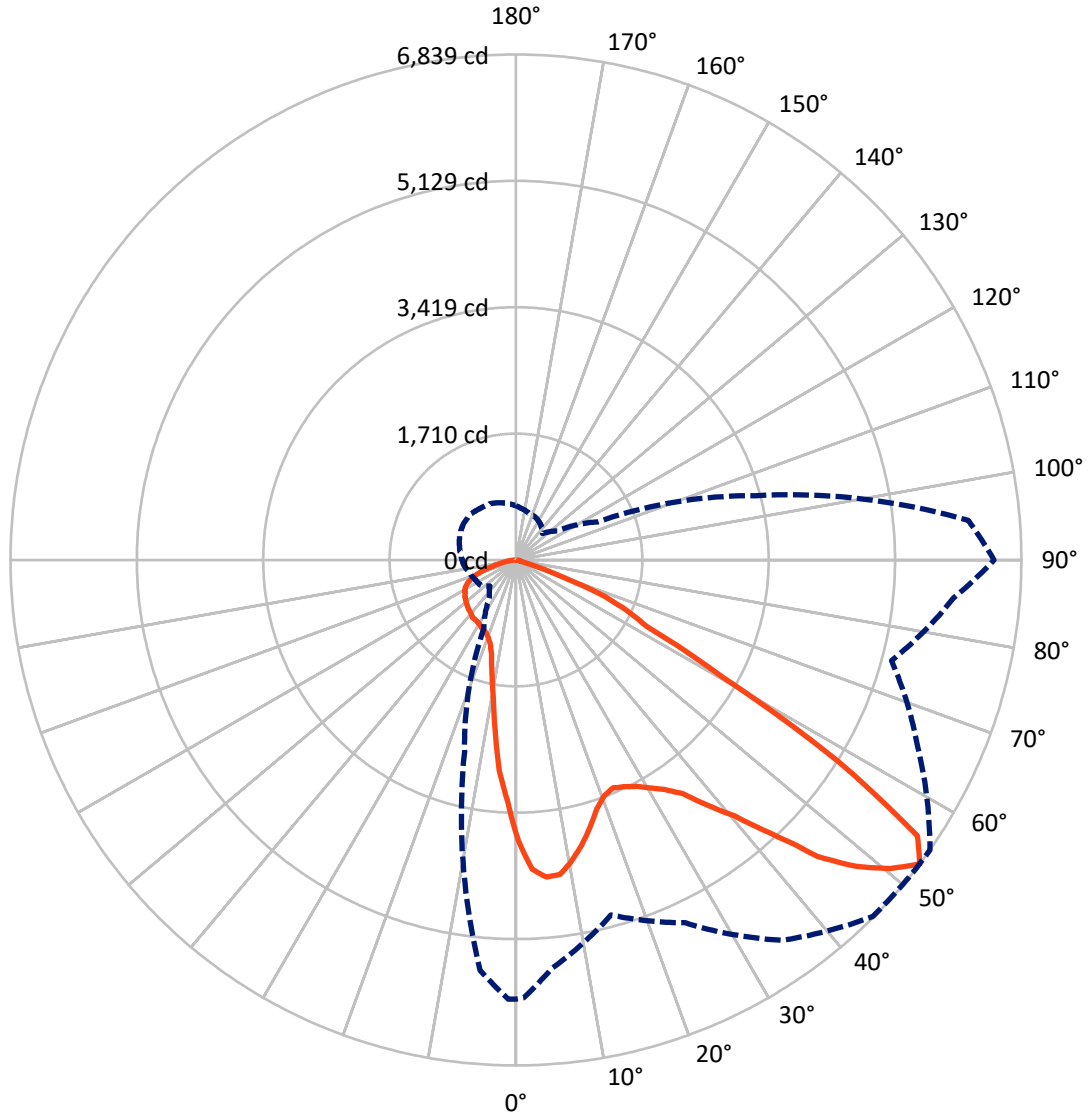
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

REPORT NUMBER: P527664
CATALOG NUMBER: GALN-SA2D-722-U-SLL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P527664
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2598.1	0.0	2598.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	5918.9	0.0	5918.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	8517.0	0.0	8517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	3.4
10°-20°	625.8	7.3
20°-30°	949.0	11.1
30°-40°	1371.1	16.1
40°-50°	1832.2	21.5
50°-60°	2045.1	24.0
60°-70°	1121.8	13.2
70°-80°	242.5	2.8
80°-90°	39.2	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°	8517.0	100.0
0°-180°	8517.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527664

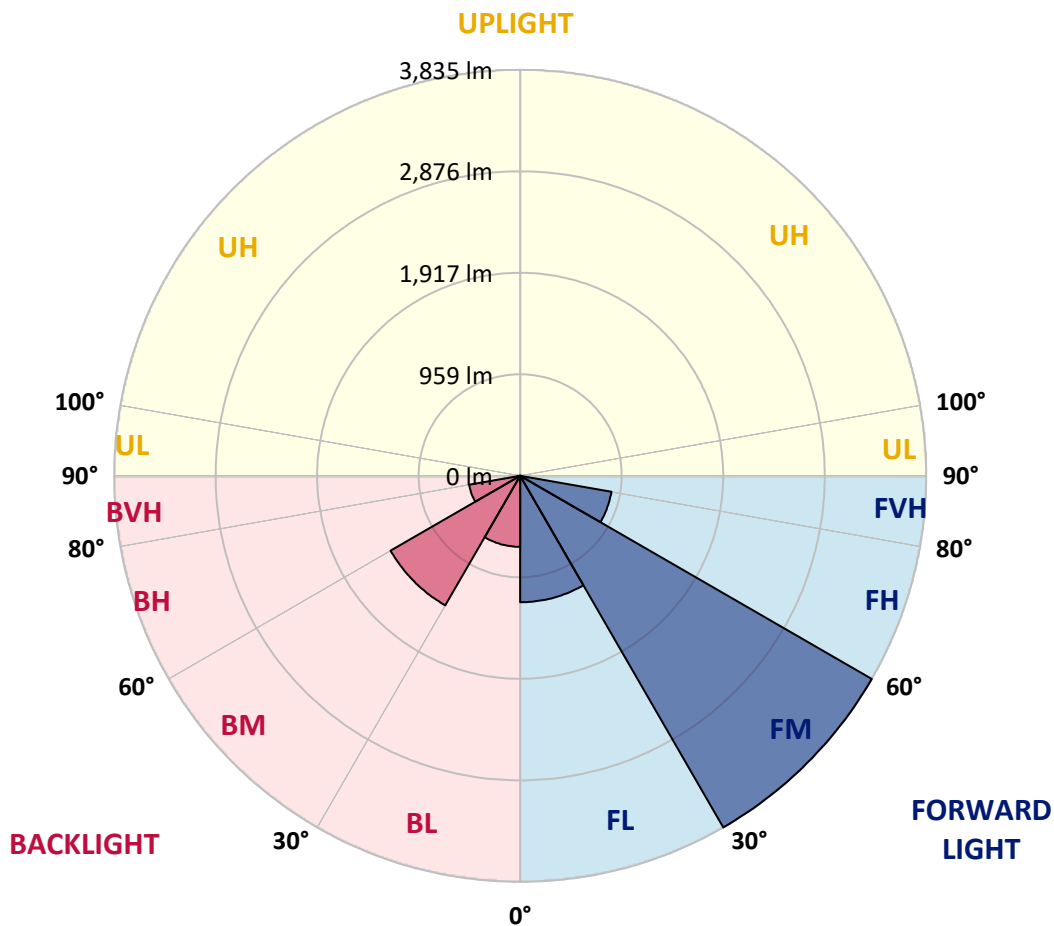
CATALOG NUMBER: GALN-SA2D-722-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1194.2	14.0			
FM (30°-60°)	3834.8	45.0			
FH (60°-80°)	875.3	10.3			G1/1800
FVH (80°-90°)	14.5	0.2			G1/100
BL (0°-30°)	670.8	7.9	B2/1000		
BM (30°-60°)	1413.6	16.6	B2/2500		
BH (60°-80°)	489.0	5.7	B1/500		G1/500
BVH (80°-90°)	24.7	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-G1

Type II Short





REPORT NUMBER: P527664

CATALOG NUMBER: GALN-SA2D-722-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2
2.5°	3987.0	3964.6	3984.5	4079.1	4133.8	4171.1	4194.7	4191.0	4101.4	4014.4	4014.4
5°	3870.1	3841.5	3882.6	4096.5	4311.6	4330.3	4361.4	4310.4	4178.5	4019.4	3820.4
7.5°	3531.9	3553.0	3621.4	3902.5	4182.3	4322.8	4360.1	4295.4	4081.5	3784.3	3492.1
10°	3239.6	3289.4	3447.3	3750.7	4008.2	4191.0	4232.0	4141.2	3972.1	3607.7	3346.6
12.5°	3138.9	3107.8	3283.1	3586.6	3832.8	3931.1	3949.7	3955.9	3841.5	3518.2	3199.8
15°	3126.4	3146.3	3283.1	3513.2	3664.9	3669.9	3701.0	3749.5	3764.4	3579.1	3268.2
17.5°	3305.5	3281.9	3422.4	3605.2	3533.1	3461.0	3468.4	3538.1	3661.2	3631.4	3483.4
20°	3570.4	3623.9	3734.6	3715.9	3521.9	3339.1	3340.3	3406.3	3648.8	3847.7	3783.1
22.5°	4010.7	4062.9	4145.0	3919.9	3521.9	3303.0	3260.8	3350.3	3728.4	4105.2	4121.3
25°	4412.3	4508.1	4530.5	4265.6	3698.5	3336.6	3309.3	3397.6	3807.9	4356.4	4509.3
27.5°	4778.0	4812.8	4911.0	4488.2	3796.8	3359.0	3356.5	3469.7	3908.7	4482.0	4856.3
30°	5066.5	5062.8	5118.7	4628.7	3953.4	3484.6	3364.0	3577.9	4040.5	4689.7	5177.2
32.5°	5263.0	5305.3	5423.4	4824.0	4019.4	3604.0	3509.5	3704.7	4200.9	4787.9	5403.5
35°	5608.7	5682.1	5532.8	4932.2	4228.3	3722.1	3611.5	3877.6	4280.5	4894.9	5680.8
37.5°	5934.5	5878.6	5726.8	4990.6	4363.8	3941.0	3837.8	4212.1	4528.0	5127.4	5864.9
40°	6143.5	6142.2	5872.3	5037.9	4459.6	4275.5	4269.3	4551.6	4831.4	5274.2	6071.3
42.5°	6234.2	6321.3	5932.0	5032.9	4661.1	4681.0	4806.6	5059.0	5046.6	5304.0	6066.3
44°	6358.6	6410.8	6035.3	5044.1	4795.4	4954.6	5250.5	5411.0	5234.4	5287.8	6060.1
45°	6353.6	6357.4	5888.5	5059.0	4909.8	5183.4	5448.3	5719.4	5399.8	5253.0	6142.2
47.5°	6208.1	6165.8	5764.2	4948.3	5266.7	5787.8	6032.8	6196.9	5603.7	5178.4	6040.2
50°	5920.8	5872.3	5462.0	4901.1	5341.3	6163.4	6501.6	6561.3	5789.0	5105.0	5939.5
52.5°	5940.7	5927.1	5547.8	4972.0	5415.9	6281.5	6823.7	6838.6	5999.2	5259.2	5940.7
55°	6296.4	6249.2	5794.0	5060.3	5361.2	6143.5	6618.5	6592.4	5928.3	5166.0	6050.2
57.5°	5761.7	5792.8	5453.2	4710.8	4692.2	4994.4	5203.3	5138.6	4947.1	4662.3	5628.6
60°	4648.6	4736.9	4769.3	3939.8	3540.6	3385.1	3322.9	3208.5	3240.9	3830.3	4944.6
62.5°	3987.0	3982.1	4184.8	3571.7	2319.3	1994.8	1964.9	1991.0	2364.1	3770.6	4842.6
65°	3161.3	3245.8	3308.0	3027.0	1835.6	1481.1	1479.9	1645.3	2045.7	3151.3	3909.9
67.5°	2007.2	2117.9	2195.0	1936.3	1227.4	1054.6	1026.0	1225.0	1417.7	2066.9	2354.2
70°	1131.7	1183.9	1218.7	1116.8	781.0	547.2	514.9	562.1	856.9	1338.1	1395.3
72.5°	436.5	460.1	507.4	511.1	294.7	176.6	143.0	171.6	360.6	529.8	504.9
75°	67.2	72.1	102.0	121.9	84.6	64.7	68.4	70.9	100.7	136.8	114.4
77.5°	32.3	32.3	31.1	36.1	42.3	46.0	49.7	54.7	59.7	65.9	63.4
80°	21.1	21.1	21.1	24.9	31.1	37.3	42.3	44.8	47.3	52.2	49.7
82.5°	13.7	13.7	13.7	18.7	24.9	31.1	33.6	39.8	44.8	52.2	48.5
85°	7.5	7.5	7.5	12.4	18.7	26.1	24.9	19.9	11.2	1.2	2.5
87.5°	2.5	2.5	2.5	2.5	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: P527664

CATALOG NUMBER: GALN-SA2D-722-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2
2.5°	3909.9	3852.7	3847.7	3730.8	3626.4	3575.4	3534.4	3419.9	3444.8	3378.9	3377.7
5°	3720.9	3604.0	3415.0	3259.5	3104.1	3073.0	2937.4	2819.3	2823.0	2738.4	2753.4
7.5°	3381.4	3300.6	3070.5	2826.7	2620.3	2473.5	2345.5	2268.4	2170.1	2136.5	2119.1
10°	3166.2	3066.8	2808.1	2502.2	2270.8	2192.5	2069.4	2001.0	1900.2	1850.5	1815.7
12.5°	3071.7	2926.2	2602.9	2292.0	2137.8	2056.9	1952.5	1828.1	1708.7	1662.7	1599.3
15°	3081.7	2907.6	2543.2	2207.4	2022.1	1865.4	1772.1	1634.1	1512.2	1431.4	1385.4
17.5°	3232.2	3020.7	2570.6	2142.7	1876.6	1680.1	1497.3	1348.1	1251.1	1190.1	1175.2
20°	3587.8	3300.6	2616.6	2038.3	1731.1	1486.1	1261.0	1105.6	1031.0	1029.7	1031.0
22.5°	3883.8	3599.0	2709.8	1976.1	1585.6	1237.4	1013.5	963.8	948.9	980.0	983.7
25°	4283.0	3934.8	2870.3	1943.8	1451.3	1054.6	916.5	897.9	896.6	936.4	937.7
27.5°	4692.2	4228.3	2966.0	1849.3	1314.5	960.1	858.1	854.4	874.3	916.5	912.8
30°	4970.7	4474.5	3138.9	1736.1	1152.8	876.7	834.5	839.4	866.8	899.1	904.1
32.5°	5295.3	4717.0	3183.7	1673.9	1053.3	807.1	777.3	788.5	823.3	874.3	901.6
35°	5667.1	4888.6	3252.1	1589.3	1016.0	753.6	738.7	751.1	793.4	827.0	856.9
37.5°	5942.0	5192.1	3264.5	1523.4	975.0	723.8	700.2	741.2	766.1	813.3	828.2
40°	6145.9	5412.2	3296.8	1482.4	942.7	685.2	685.2	712.6	746.2	789.7	819.5
42.5°	6276.5	5572.6	3320.4	1445.1	880.5	674.0	667.8	695.2	740.0	782.2	795.9
44°	6356.1	5641.0	3296.8	1410.3	863.1	660.4	660.4	684.0	718.8	768.6	784.7
45°	6376.0	5726.8	3244.6	1409.0	841.9	644.2	641.7	686.5	710.1	771.0	781.0
47.5°	6453.1	5832.5	3250.8	1369.2	790.9	605.6	649.2	669.1	690.2	743.7	777.3
50°	6450.6	5898.5	3237.1	1310.8	753.6	562.1	634.2	656.6	677.8	732.5	746.2
52.5°	6468.0	6144.7	3362.7	1217.5	686.5	506.2	584.5	634.2	660.4	706.4	735.0
55°	6459.3	6285.2	3487.1	1147.9	592.0	472.6	542.2	600.7	638.0	686.5	700.2
57.5°	5899.7	5555.2	3227.2	1017.3	490.0	432.8	482.5	565.8	613.1	662.8	680.3
60°	4820.2	4281.8	2661.3	748.7	402.9	398.0	448.9	554.7	574.5	618.1	647.9
62.5°	4454.6	3755.7	2110.4	572.1	344.5	364.4	414.1	501.2	532.3	585.7	613.1
65°	3485.9	2494.7	1307.0	386.8	303.4	327.1	374.3	439.0	490.0	539.7	572.1
67.5°	2064.4	1363.0	646.7	271.1	264.9	289.8	338.3	386.8	445.2	499.9	516.1
70°	1124.2	670.3	276.1	206.4	225.1	247.5	294.7	328.3	384.3	426.6	453.9
72.5°	360.6	204.0	138.0	153.0	171.6	197.7	226.3	267.4	307.2	332.0	354.4
75°	87.1	85.8	98.2	107.0	124.4	144.3	167.9	189.0	220.1	243.7	263.6
77.5°	60.9	65.9	75.9	88.3	94.5	102.0	116.9	133.1	146.7	164.2	176.6
80°	47.3	51.0	58.4	64.7	70.9	77.1	84.6	90.8	99.5	110.7	116.9
82.5°	44.8	47.3	54.7	58.4	56.0	54.7	59.7	62.2	63.4	67.2	70.9
85°	3.7	0.0	2.5	8.7	21.1	31.1	33.6	33.6	32.3	34.8	34.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	5.0	3.7
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: P527664

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2
2.5°	3362.7	3320.4	3336.6	3356.5	3327.9	3262.0	3279.4	3271.9	3339.1	3334.1	3401.3
5°	2819.3	2753.4	2760.8	2857.8	2826.7	2860.3	2793.2	2784.5	2796.9	2803.1	2814.3
7.5°	2157.7	2149.0	2223.6	2305.7	2344.2	2304.4	2238.5	2223.6	2209.9	2182.5	2244.7
10°	1761.0	1763.4	1758.5	1820.7	1864.2	1855.5	1815.7	1810.7	1784.6	1774.6	1809.5
12.5°	1571.9	1538.4	1522.2	1502.3	1535.9	1558.2	1540.8	1528.4	1529.6	1542.1	1547.1
15°	1389.1	1368.0	1333.2	1310.8	1326.9	1315.7	1309.5	1334.4	1328.2	1325.7	1355.5
17.5°	1183.9	1201.3	1198.8	1174.0	1195.1	1186.4	1185.2	1167.8	1144.1	1126.7	1136.7
20°	1048.4	1080.7	1105.6	1106.8	1118.0	1116.8	1098.1	1044.6	1027.2	1023.5	1026.0
22.5°	999.9	1017.3	1047.1	1089.4	1089.4	1069.5	1047.1	984.9	968.8	951.4	943.9
25°	961.3	994.9	1033.4	1038.4	1058.3	1039.7	1003.6	972.5	938.9	915.3	915.3
27.5°	941.4	978.7	1007.3	1016.0	1043.4	1028.5	991.2	951.4	911.6	910.3	889.2
30°	932.7	967.5	986.2	1007.3	1019.8	996.1	984.9	942.7	902.9	892.9	858.1
32.5°	906.6	956.3	991.2	986.2	996.1	986.2	970.0	935.2	890.4	868.0	864.3
35°	876.7	926.5	963.8	989.9	996.1	975.0	965.0	917.8	856.9	845.7	807.1
37.5°	860.6	890.4	936.4	978.7	987.4	976.2	942.7	894.2	833.2	820.8	787.2
40°	840.7	879.2	915.3	950.1	976.2	948.9	910.3	863.1	835.7	798.4	788.5
42.5°	825.8	869.3	899.1	937.7	967.5	931.5	886.7	854.4	815.8	790.9	762.3
44°	820.8	860.6	880.5	927.7	952.6	925.2	887.9	854.4	809.6	787.2	762.3
45°	803.4	858.1	879.2	921.5	942.7	920.3	873.0	839.4	807.1	779.7	753.6
47.5°	786.0	823.3	859.3	892.9	907.8	900.4	860.6	819.5	781.0	764.8	740.0
50°	781.0	818.3	851.9	883.0	900.4	885.5	849.4	809.6	764.8	738.7	717.6
52.5°	756.1	802.1	839.4	849.4	871.8	863.1	835.7	792.2	749.9	727.5	710.1
55°	720.1	768.6	819.5	832.0	864.3	850.6	809.6	768.6	732.5	698.9	676.5
57.5°	706.4	753.6	803.4	819.5	839.4	817.1	807.1	763.6	706.4	689.0	654.1
60°	671.6	731.2	772.3	809.6	810.8	804.6	787.2	737.5	690.2	657.9	633.0
62.5°	644.2	700.2	732.5	767.3	788.5	771.0	753.6	707.6	656.6	620.6	592.0
65°	604.4	655.4	682.7	703.9	727.5	725.0	695.2	661.6	608.1	579.5	552.2
67.5°	543.5	588.2	625.5	645.4	660.4	656.6	634.2	610.6	555.9	527.3	507.4
70°	470.1	516.1	539.7	550.9	565.8	573.3	555.9	544.7	496.2	458.9	440.2
72.5°	378.1	407.9	442.7	452.7	458.9	463.9	463.9	453.9	404.2	389.3	356.9
75°	278.6	302.2	328.3	328.3	339.5	340.8	343.2	337.0	299.7	279.8	272.4
77.5°	189.0	206.4	227.6	236.3	243.7	242.5	241.3	223.9	204.0	195.2	187.8
80°	123.1	140.5	150.5	161.7	169.1	167.9	170.4	157.9	149.2	134.3	136.8
82.5°	73.4	87.1	97.0	110.7	110.7	114.4	114.4	110.7	102.0	94.5	94.5
85°	34.8	46.0	52.2	60.9	65.9	67.2	59.7	51.0	42.3	38.6	42.3
87.5°	6.2	8.7	12.4	11.2	13.7	12.4	12.4	12.4	12.4	9.9	11.2
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: P527664

CATALOG NUMBER: GALN-SA2D-722-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2
2.5°	3376.4	3438.6	3482.1	3554.2	3678.6	3778.1	3880.1	3955.9	3964.6	3987.0
5°	2855.3	2888.9	2999.6	3143.9	3245.8	3413.7	3521.9	3718.4	3791.8	3870.1
7.5°	2229.8	2284.5	2432.5	2529.5	2753.4	2963.5	3181.2	3423.7	3520.7	3531.9
10°	1880.3	1959.9	2060.7	2216.1	2338.0	2571.8	2842.9	3112.8	3221.0	3239.6
12.5°	1651.5	1753.5	1887.8	1999.7	2116.6	2320.6	2580.5	2913.8	3054.3	3138.9
15°	1431.4	1537.1	1685.1	1840.5	1943.8	2187.5	2493.4	2869.0	3051.8	3126.4
17.5°	1205.1	1303.3	1425.2	1593.1	1800.8	2074.3	2479.8	3018.3	3218.5	3305.5
20°	1011.1	1065.8	1207.5	1380.4	1640.3	1958.7	2484.7	3238.4	3531.9	3570.4
22.5°	935.2	947.6	1003.6	1162.8	1447.6	1840.5	2573.0	3550.5	3883.8	4010.7
25°	876.7	874.3	889.2	996.1	1307.0	1794.5	2660.1	3837.8	4274.3	4412.3
27.5°	844.4	819.5	820.8	921.5	1207.5	1719.9	2772.0	4167.4	4717.0	4778.0
30°	828.2	823.3	808.3	849.4	1099.4	1608.0	2790.7	4491.9	4978.2	5066.5
32.5°	818.3	769.8	751.1	766.1	997.4	1486.1	2860.3	4705.8	5301.5	5263.0
35°	768.6	725.0	712.6	727.5	925.2	1417.7	2814.3	4892.4	5544.0	5608.7
37.5°	749.9	711.3	686.5	674.0	858.1	1360.5	2790.7	5179.7	5779.1	5934.5
40°	732.5	691.4	661.6	649.2	805.9	1284.7	2783.2	5401.0	6050.2	6143.5
42.5°	712.6	686.5	652.9	630.5	742.4	1208.8	2697.4	5469.4	6133.5	6234.2
44°	706.4	666.6	631.8	624.3	717.6	1170.2	2680.0	5531.6	6205.6	6358.6
45°	700.2	662.8	623.1	613.1	708.9	1149.1	2656.4	5546.5	6325.0	6353.6
47.5°	682.7	659.1	620.6	593.2	690.2	1103.1	2585.5	5462.0	6203.1	6208.1
50°	669.1	641.7	601.9	548.4	665.3	1064.5	2617.8	5430.9	5909.7	5920.8
52.5°	654.1	613.1	590.7	498.7	624.3	1032.2	2686.2	5571.4	5943.2	5940.7
55°	636.7	592.0	537.2	456.4	555.9	991.2	2851.6	5848.7	6254.1	6296.4
57.5°	609.4	570.8	492.5	419.1	477.5	912.8	2798.1	5317.7	5754.2	5761.7
60°	573.3	537.2	446.5	390.5	391.7	720.1	2502.2	4143.7	4540.4	4648.6
62.5°	538.5	518.6	407.9	349.5	333.3	573.3	2115.4	3443.6	3897.5	3987.0
65°	497.4	448.9	374.3	318.4	286.0	401.7	1498.6	2573.0	3040.6	3161.3
67.5°	445.2	393.0	329.6	279.8	245.0	268.6	773.5	1462.5	1936.3	2007.2
70°	389.3	340.8	277.3	236.3	197.7	185.3	340.8	697.7	1058.3	1131.7
72.5°	319.6	274.8	221.4	186.5	148.0	128.1	114.4	186.5	375.6	436.5
75°	231.3	200.2	166.6	133.1	104.5	82.1	67.2	56.0	62.2	67.2
77.5°	170.4	145.5	123.1	94.5	73.4	58.4	46.0	34.8	33.6	32.3
80°	133.1	118.1	98.2	75.9	57.2	43.5	32.3	23.6	21.1	21.1
82.5°	104.5	97.0	80.8	62.2	47.3	34.8	23.6	16.2	13.7	13.7
85°	39.8	39.8	58.4	51.0	36.1	24.9	16.2	8.7	7.5	7.5
87.5°	9.9	9.9	9.9	9.9	8.7	7.5	7.5	3.7	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)