

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: P650745

Luminaire Tested: **GALN-SA2C-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650745
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-SA2C-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA 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: 8855.7 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

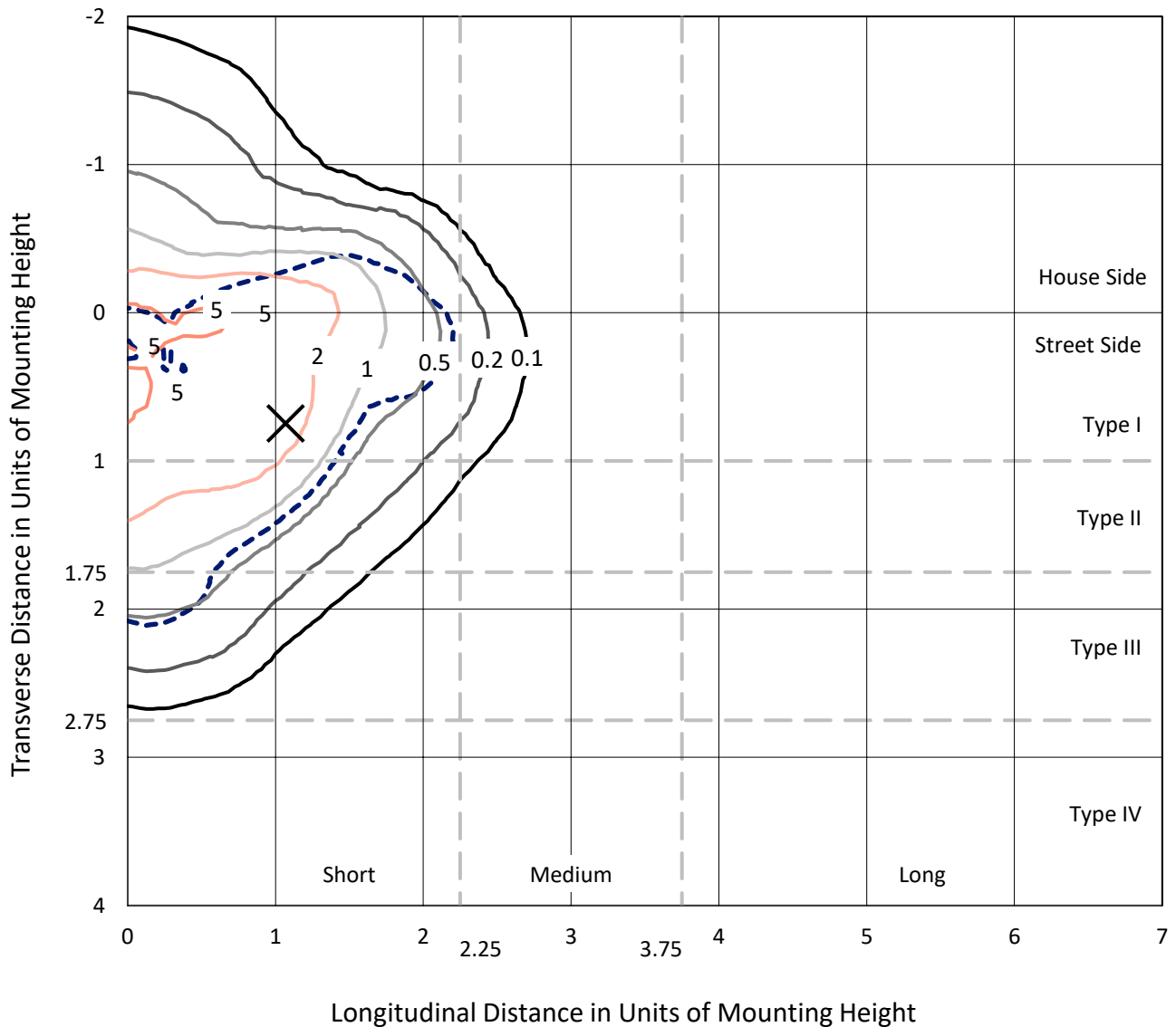
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

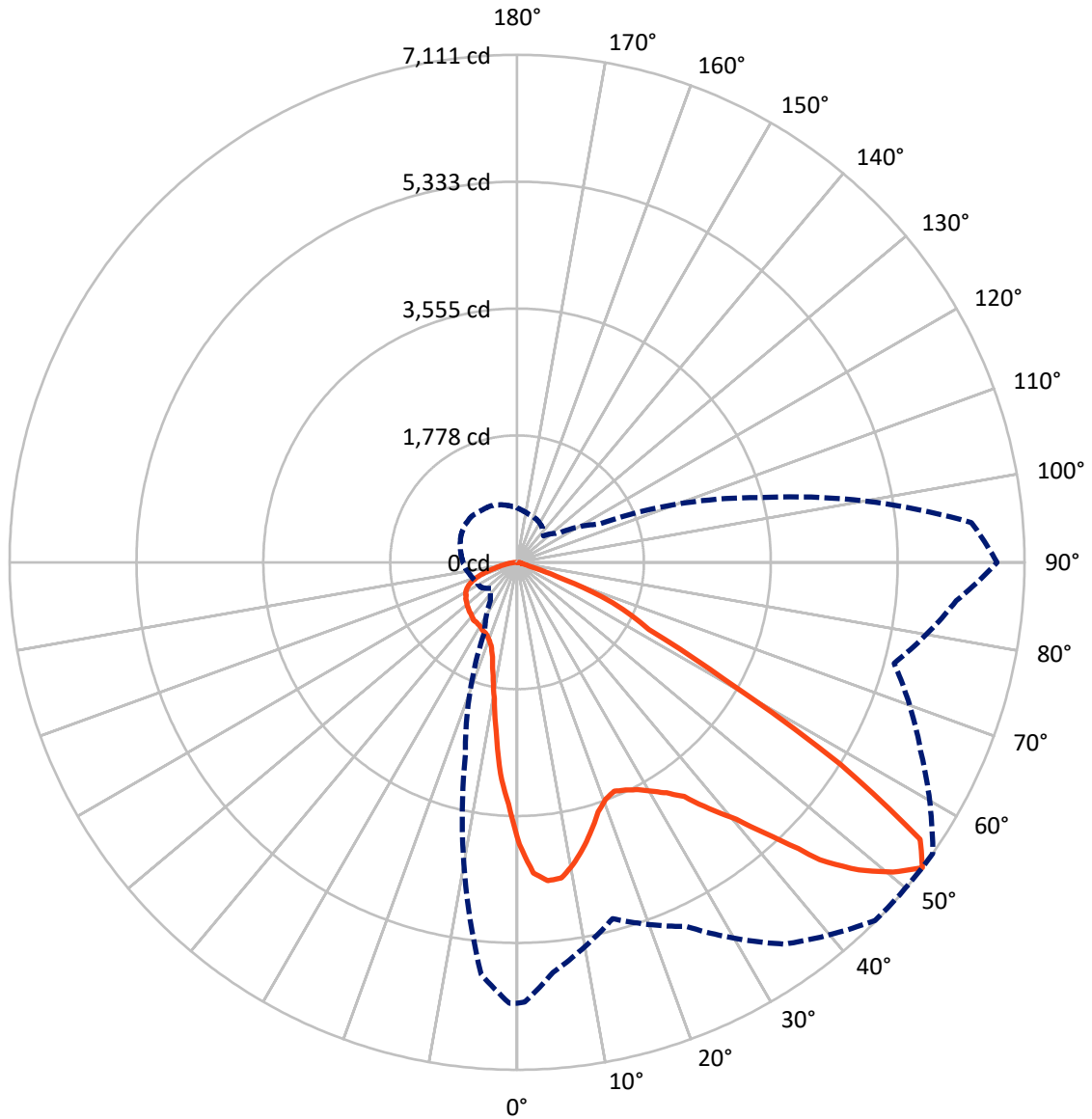
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2701.5	0.0	2701.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	6154.3	0.0	6154.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	8855.7	0.0	8855.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.8	3.4
10°-20°	650.7	7.3
20°-30°	986.7	11.1
30°-40°	1425.6	16.1
40°-50°	1905.0	21.5
50°-60°	2126.4	24.0
60°-70°	1166.4	13.2
70°-80°	252.2	2.8
80°-90°	40.8	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°	8855.7	100.0
0°-180°	8855.7	100.0

Coefficient of Utilization



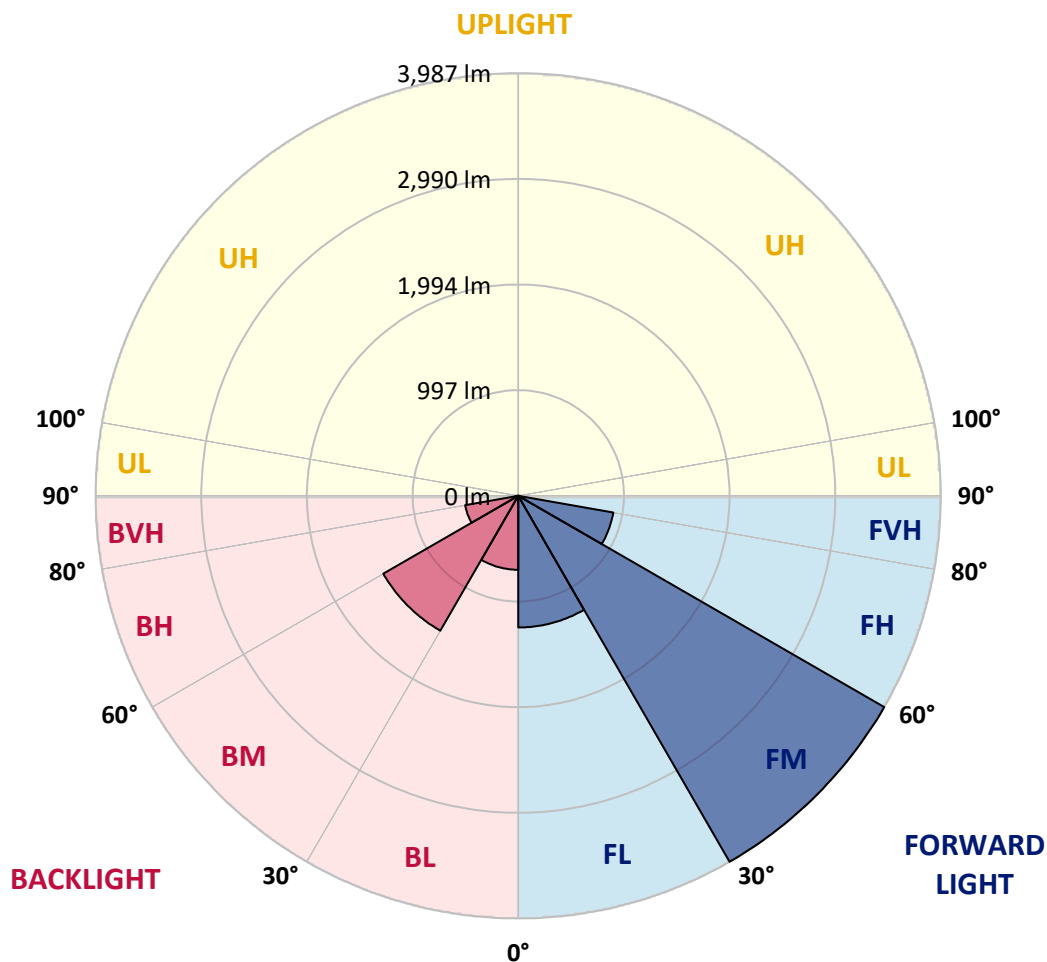
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1241.7	14.0			
FM (30°-60°)	3987.3	45.0			
FH (60°-80°)	910.2	10.3			G1/1800
FVH (80°-90°)	15.1	0.2			G1/100
BL (0°-30°)	697.5	7.9	B2/1000		
BM (30°-60°)	1469.8	16.6	B2/2500		
BH (60°-80°)	508.5	5.7	B2/1000		G2/1000
BVH (80°-90°)	25.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3
2.5°	4145.6	4122.3	4143.0	4241.2	4298.2	4337.0	4361.5	4357.6	4264.5	4174.1	4174.1
5°	4024.0	3994.3	4037.0	4259.4	4483.1	4502.5	4534.8	4481.8	4344.7	4179.2	3972.3
7.5°	3672.3	3694.3	3765.4	4057.7	4348.6	4494.7	4533.5	4466.3	4243.9	3934.8	3630.9
10°	3368.5	3420.2	3584.4	3899.9	4167.6	4357.6	4400.4	4305.9	4130.1	3751.2	3479.6
12.5°	3263.8	3231.4	3413.7	3729.2	3985.2	4087.4	4106.8	4113.2	3994.3	3658.1	3327.1
15°	3250.8	3271.5	3413.7	3653.0	3810.7	3815.9	3848.2	3898.6	3914.1	3721.4	3398.2
17.5°	3437.0	3412.4	3558.5	3748.6	3673.7	3598.6	3606.4	3678.8	3806.8	3775.8	3621.9
20°	3712.4	3768.0	3883.1	3863.7	3662.0	3471.9	3473.2	3541.7	3793.9	4000.8	3933.5
22.5°	4170.2	4224.5	4309.8	4075.7	3662.0	3434.4	3390.4	3483.5	3876.7	4268.4	4285.2
25°	4587.8	4687.4	4710.7	4435.3	3845.6	3469.3	3440.9	3532.7	3959.4	4529.6	4688.7
27.5°	4968.0	5004.2	5106.4	4666.7	3947.7	3492.6	3490.0	3607.6	4064.1	4660.2	5049.4
30°	5268.0	5264.1	5322.3	4812.8	4110.6	3623.2	3497.8	3720.2	4201.2	4876.2	5383.1
32.5°	5472.3	5516.3	5639.1	5015.8	4179.2	3747.3	3649.0	3852.0	4368.0	4978.3	5618.4
35°	5831.7	5908.0	5752.9	5128.3	4396.4	3870.2	3755.1	4031.8	4450.7	5089.6	5906.8
37.5°	6170.6	6112.4	5954.6	5189.1	4537.4	4097.8	3990.5	4379.7	4708.1	5331.4	6098.2
40°	6387.8	6386.5	6105.9	5238.3	4636.9	4445.6	4439.1	4732.6	5023.6	5483.9	6312.8
42.5°	6482.2	6572.7	6168.0	5233.0	4846.4	4867.1	4997.7	5260.2	5247.3	5514.9	6307.6
44°	6611.5	6665.8	6275.3	5244.7	4986.1	5151.6	5459.4	5626.2	5442.5	5498.1	6301.1
45°	6606.3	6610.2	6122.7	5260.2	5105.0	5389.5	5665.0	5946.9	5614.5	5462.0	6386.5
47.5°	6455.0	6411.0	5993.4	5145.2	5476.2	6017.9	6272.7	6443.4	5826.6	5384.3	6280.4
50°	6156.3	6105.9	5679.2	5096.0	5553.7	6408.5	6760.2	6822.3	6019.3	5308.1	6175.7
52.5°	6177.0	6162.8	5768.4	5169.7	5631.3	6531.3	7095.1	7110.7	6237.8	5468.4	6177.0
55°	6546.8	6497.7	6024.4	5261.5	5574.4	6387.8	6881.7	6854.6	6164.1	5371.5	6290.8
57.5°	5990.8	6023.2	5670.1	4898.2	4878.8	5193.0	5410.2	5343.0	5143.8	4847.7	5852.4
60°	4833.5	4925.3	4959.0	4096.4	3681.4	3519.8	3455.1	3336.2	3369.7	3982.6	5141.3
62.5°	4145.6	4140.4	4351.2	3713.7	2411.6	2074.1	2043.0	2070.2	2458.2	3920.6	5035.2
65°	3287.0	3374.9	3439.6	3147.4	1908.6	1540.0	1538.8	1710.8	2127.1	3276.6	4065.4
67.5°	2087.0	2202.1	2282.3	2013.4	1276.3	1096.5	1066.8	1273.7	1474.1	2149.1	2447.8
70°	1176.7	1231.0	1267.2	1161.2	812.1	568.9	535.3	584.5	891.0	1391.4	1450.8
72.5°	453.9	478.4	527.6	531.4	306.5	183.6	148.7	178.5	375.0	550.9	525.0
75°	69.8	75.0	106.1	126.7	88.0	67.3	71.1	73.7	104.7	142.2	119.0
77.5°	33.6	33.6	32.3	37.5	44.0	47.9	51.7	56.9	62.1	68.5	65.9
80°	22.0	22.0	22.0	25.9	32.3	38.8	44.0	46.6	49.1	54.3	51.7
82.5°	14.2	14.2	14.2	19.4	25.9	32.3	34.9	41.4	46.6	54.3	50.5
85°	7.7	7.7	7.7	13.0	19.4	27.2	25.9	20.7	11.6	1.3	2.6
87.5°	2.6	2.6	2.6	2.6	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°	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3
2.5°	4065.4	4005.9	4000.8	3879.2	3770.6	3717.6	3674.9	3555.9	3581.8	3513.3	3512.0
5°	3868.9	3747.3	3550.8	3389.1	3227.5	3195.2	3054.3	2931.4	2935.3	2847.4	2862.8
7.5°	3515.9	3431.8	3192.6	2939.1	2724.5	2571.9	2438.7	2358.6	2256.4	2221.5	2203.4
10°	3292.2	3188.7	2919.8	2601.6	2361.2	2279.7	2151.7	2080.5	1975.8	1924.1	1887.9
12.5°	3193.9	3042.6	2706.4	2383.1	2222.8	2138.7	2030.1	1900.8	1776.7	1728.8	1662.9
15°	3204.2	3023.2	2644.4	2295.2	2102.5	1939.6	1842.6	1699.1	1572.4	1488.3	1440.5
17.5°	3360.7	3140.9	2672.8	2228.0	1951.3	1746.9	1556.9	1401.7	1300.9	1237.4	1222.0
20°	3730.5	3431.8	2720.6	2119.3	1800.0	1545.3	1311.2	1149.6	1071.9	1070.7	1071.9
22.5°	4038.2	3742.2	2817.6	2054.7	1648.7	1286.6	1053.9	1002.1	986.6	1019.0	1022.8
25°	4453.3	4091.3	2984.4	2021.1	1509.0	1096.5	953.0	933.6	932.3	973.7	975.0
27.5°	4878.8	4396.4	3083.9	1922.8	1366.8	998.3	892.2	888.3	909.0	953.0	949.2
30°	5168.4	4652.5	3263.8	1805.1	1198.7	911.6	867.7	872.8	901.3	934.9	940.1
32.5°	5505.9	4904.6	3310.3	1740.4	1095.2	839.2	808.2	819.8	856.1	909.0	937.5
35°	5892.6	5083.1	3381.4	1652.6	1056.5	783.6	768.1	781.0	825.0	859.9	891.0
37.5°	6178.3	5398.5	3394.4	1584.0	1013.7	752.6	728.0	770.7	796.5	845.7	861.2
40°	6390.3	5627.5	3427.9	1541.4	980.2	712.5	712.5	740.9	775.8	821.1	852.1
42.5°	6526.2	5794.2	3452.5	1502.5	915.5	700.8	694.4	722.8	769.3	813.3	827.5
44°	6608.9	5865.4	3427.9	1466.4	897.4	686.6	686.6	711.1	747.4	799.1	815.9
45°	6629.6	5954.6	3373.7	1465.0	875.4	669.8	667.2	713.8	738.3	801.7	812.1
47.5°	6709.8	6064.5	3380.1	1423.6	822.4	629.7	675.0	695.7	717.6	773.3	808.2
50°	6707.1	6133.1	3365.9	1362.9	783.6	584.5	659.4	682.7	704.8	761.6	775.8
52.5°	6725.3	6389.1	3496.5	1266.0	713.8	526.3	607.7	659.4	686.6	734.4	764.2
55°	6716.2	6535.2	3625.8	1193.5	615.5	491.4	563.8	624.5	663.4	713.8	728.0
57.5°	6134.3	5776.2	3355.5	1057.7	509.5	450.0	501.7	588.4	637.5	689.2	707.3
60°	5011.9	4452.1	2767.1	778.4	419.0	413.8	466.8	576.7	597.4	642.7	673.7
62.5°	4631.8	3905.1	2194.3	594.8	358.2	378.9	430.6	521.1	553.5	609.1	637.5
65°	3624.5	2593.9	1359.1	402.2	315.5	340.1	389.2	456.5	509.5	561.2	594.8
67.5°	2146.5	1417.2	672.4	281.9	275.4	301.2	351.7	402.2	462.9	519.8	536.6
70°	1168.9	696.9	287.0	214.6	234.1	257.3	306.5	341.4	399.6	443.5	472.0
72.5°	375.0	212.1	143.6	159.0	178.5	205.6	235.3	278.0	319.4	345.2	368.5
75°	90.5	89.2	102.2	111.2	129.3	150.0	174.6	196.5	228.8	253.5	274.2
77.5°	63.3	68.5	78.9	91.8	98.3	106.1	121.5	138.3	152.6	170.7	183.6
80°	49.1	53.0	60.8	67.3	73.7	80.1	88.0	94.4	103.4	115.0	121.5
82.5°	46.6	49.1	56.9	60.8	58.2	56.9	62.1	64.7	65.9	69.8	73.7
85°	3.9	0.0	2.6	9.1	22.0	32.3	34.9	34.9	33.6	36.2	36.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.2	3.9
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°	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3
2.5°	3496.5	3452.5	3469.3	3490.0	3460.3	3391.8	3409.8	3402.1	3471.9	3466.8	3536.6
5°	2931.4	2862.8	2870.6	2971.5	2939.1	2974.0	2904.2	2895.2	2908.1	2914.6	2926.3
7.5°	2243.5	2234.5	2312.0	2397.4	2437.5	2396.1	2327.6	2312.0	2297.8	2269.4	2334.0
10°	1831.0	1833.5	1828.4	1893.1	1938.3	1929.3	1887.9	1882.7	1855.6	1845.2	1881.4
12.5°	1634.5	1599.5	1582.8	1562.1	1597.0	1620.2	1602.1	1589.2	1590.5	1603.5	1608.6
15°	1444.3	1422.4	1386.1	1362.9	1379.7	1368.1	1361.6	1387.5	1381.0	1378.4	1409.4
17.5°	1231.0	1249.1	1246.5	1220.6	1242.7	1233.6	1232.3	1214.2	1189.6	1171.5	1181.9
20°	1090.0	1123.7	1149.6	1150.8	1162.5	1161.2	1141.8	1086.2	1068.1	1064.2	1066.8
22.5°	1039.6	1057.7	1088.8	1132.7	1132.7	1112.1	1088.8	1024.1	1007.3	989.2	981.4
25°	999.5	1034.4	1074.5	1079.7	1100.4	1081.0	1043.5	1011.2	976.2	951.7	951.7
27.5°	978.8	1017.6	1047.4	1056.5	1084.9	1069.3	1030.6	989.2	947.8	946.5	924.5
30°	969.8	1006.0	1025.4	1047.4	1060.3	1035.8	1024.1	980.2	938.8	928.5	892.2
32.5°	942.7	994.4	1030.6	1025.4	1035.8	1025.4	1008.6	972.4	925.9	902.6	898.7
35°	911.6	963.4	1002.1	1029.3	1035.8	1013.7	1003.4	954.3	891.0	879.3	839.2
37.5°	894.8	925.9	973.7	1017.6	1026.7	1015.1	980.2	929.7	866.4	853.4	818.5
40°	874.1	914.2	951.7	987.9	1015.1	986.6	946.5	897.4	868.9	830.2	819.8
42.5°	858.6	903.8	934.9	975.0	1006.0	968.5	922.0	888.3	848.2	822.4	792.6
44°	853.4	894.8	915.5	964.6	990.5	962.0	923.2	888.3	841.8	818.5	792.6
45°	835.4	892.2	914.2	958.2	980.2	956.9	907.8	872.8	839.2	810.7	783.6
47.5°	817.2	856.1	893.5	928.5	943.9	936.2	894.8	852.1	812.1	795.2	769.3
50°	812.1	850.8	885.7	918.1	936.2	920.6	883.1	841.8	795.2	768.1	746.1
52.5°	786.2	834.0	872.8	883.1	906.4	897.4	868.9	823.7	779.7	756.5	738.3
55°	748.7	799.1	852.1	865.1	898.7	884.5	841.8	799.1	761.6	726.7	703.4
57.5°	734.4	783.6	835.4	852.1	872.8	849.6	839.2	794.0	734.4	716.4	680.1
60°	698.3	760.3	803.0	841.8	843.1	836.6	818.5	766.8	717.6	684.1	658.2
62.5°	669.8	728.0	761.6	797.9	819.8	801.7	783.6	735.8	682.7	645.2	615.5
65°	628.4	681.5	709.9	731.8	756.5	753.9	722.8	687.9	632.3	602.6	574.2
67.5°	565.1	611.7	650.4	671.1	686.6	682.7	659.4	634.9	578.0	548.2	527.6
70°	488.8	536.6	561.2	572.8	588.4	596.1	578.0	566.3	516.0	477.2	457.8
72.5°	393.1	424.1	460.4	470.7	477.2	482.3	482.3	472.0	420.2	404.8	371.1
75°	289.6	314.2	341.4	341.4	353.0	354.3	356.9	350.4	311.6	290.9	283.2
77.5°	196.5	214.6	236.7	245.7	253.5	252.1	250.9	232.8	212.1	203.0	195.3
80°	128.0	146.1	156.4	168.1	175.9	174.6	177.1	164.2	155.2	139.7	142.2
82.5°	76.3	90.5	100.8	115.0	115.0	119.0	119.0	115.0	106.1	98.3	98.3
85°	36.2	47.9	54.3	63.3	68.5	69.8	62.1	53.0	44.0	40.1	44.0
87.5°	6.5	9.1	13.0	11.6	14.2	13.0	13.0	13.0	13.0	10.3	11.6
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: P650745

CATALOG NUMBER: GALN-SA2C-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3	3950.3
2.5°	3510.7	3575.3	3620.6	3695.6	3825.0	3928.4	4034.4	4113.2	4122.3	4145.6
5°	2968.9	3003.8	3118.9	3268.9	3374.9	3549.5	3662.0	3866.3	3942.6	4024.0
7.5°	2318.5	2375.4	2529.2	2630.1	2862.8	3081.4	3307.7	3559.9	3660.7	3672.3
10°	1955.2	2037.9	2142.6	2304.3	2431.0	2674.0	2955.9	3236.6	3349.0	3368.5
12.5°	1717.2	1823.2	1962.9	2079.3	2200.8	2412.9	2683.1	3029.7	3175.8	3263.8
15°	1488.3	1598.2	1752.1	1913.8	2021.1	2274.5	2592.6	2983.1	3173.2	3250.8
17.5°	1253.0	1355.1	1481.8	1656.4	1872.4	2156.8	2578.4	3138.3	3346.5	3437.0
20°	1051.2	1108.2	1255.6	1435.3	1705.5	2036.6	2583.6	3367.2	3672.3	3712.4
22.5°	972.4	985.3	1043.5	1209.0	1505.1	1913.8	2675.4	3691.7	4038.2	4170.2
25°	911.6	909.0	924.5	1035.8	1359.1	1865.9	2765.9	3990.5	4444.3	4587.8
27.5°	878.0	852.1	853.4	958.2	1255.6	1788.3	2882.3	4333.1	4904.6	4968.0
30°	861.2	856.1	840.5	883.1	1143.1	1671.9	2901.6	4670.6	5176.2	5268.0
32.5°	850.8	800.4	781.0	796.5	1037.0	1545.3	2974.0	4893.0	5512.3	5472.3
35°	799.1	753.9	740.9	756.5	962.0	1474.1	2926.3	5087.0	5764.6	5831.7
37.5°	779.7	739.7	713.8	700.8	892.2	1414.6	2901.6	5385.7	6008.9	6170.6
40°	761.6	719.0	687.9	675.0	837.9	1335.8	2893.9	5615.9	6290.8	6387.8
42.5°	740.9	713.8	678.9	655.6	772.0	1256.9	2804.7	5686.9	6377.5	6482.2
44°	734.4	693.1	656.9	649.1	746.1	1216.8	2786.6	5751.6	6452.4	6611.5
45°	728.0	689.2	647.8	637.5	737.1	1194.8	2762.0	5767.1	6576.5	6606.3
47.5°	709.9	685.3	645.2	616.8	717.6	1147.0	2688.3	5679.2	6449.9	6455.0
50°	695.7	667.2	625.9	570.3	691.8	1106.8	2721.9	5646.9	6144.7	6156.3
52.5°	680.1	637.5	614.2	518.6	649.1	1073.3	2793.0	5793.0	6179.6	6177.0
55°	662.0	615.5	558.6	474.6	578.0	1030.6	2965.0	6081.4	6502.9	6546.8
57.5°	633.6	593.5	512.1	435.8	496.5	949.2	2909.4	5529.2	5983.0	5990.8
60°	596.1	558.6	464.2	406.0	407.3	748.7	2601.6	4308.5	4721.0	4833.5
62.5°	559.9	539.2	424.1	363.3	346.6	596.1	2199.6	3580.6	4052.5	4145.6
65°	517.2	466.8	389.2	331.0	297.4	417.6	1558.1	2675.4	3161.6	3287.0
67.5°	462.9	408.6	342.6	290.9	254.7	279.3	804.3	1520.7	2013.4	2087.0
70°	404.8	354.3	288.4	245.7	205.6	192.7	354.3	725.4	1100.4	1176.7
72.5°	332.3	285.8	230.2	193.9	153.9	133.2	119.0	193.9	390.5	453.9
75°	240.5	208.1	173.2	138.3	108.7	85.4	69.8	58.2	64.7	69.8
77.5°	177.1	151.3	128.0	98.3	76.3	60.8	47.9	36.2	34.9	33.6
80°	138.3	122.9	102.2	78.9	59.5	45.2	33.6	24.6	22.0	22.0
82.5°	108.7	100.8	84.0	64.7	49.1	36.2	24.6	16.8	14.2	14.2
85°	41.4	41.4	60.8	53.0	37.5	25.9	16.8	9.1	7.7	7.7
87.5°	10.3	10.3	10.3	10.3	9.1	7.7	7.7	3.9	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)