

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: P527848

Luminaire Tested: **GALN-SA2D-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527848
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-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 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: 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 III - Short
BUG Rating: B2 - U0 - G1

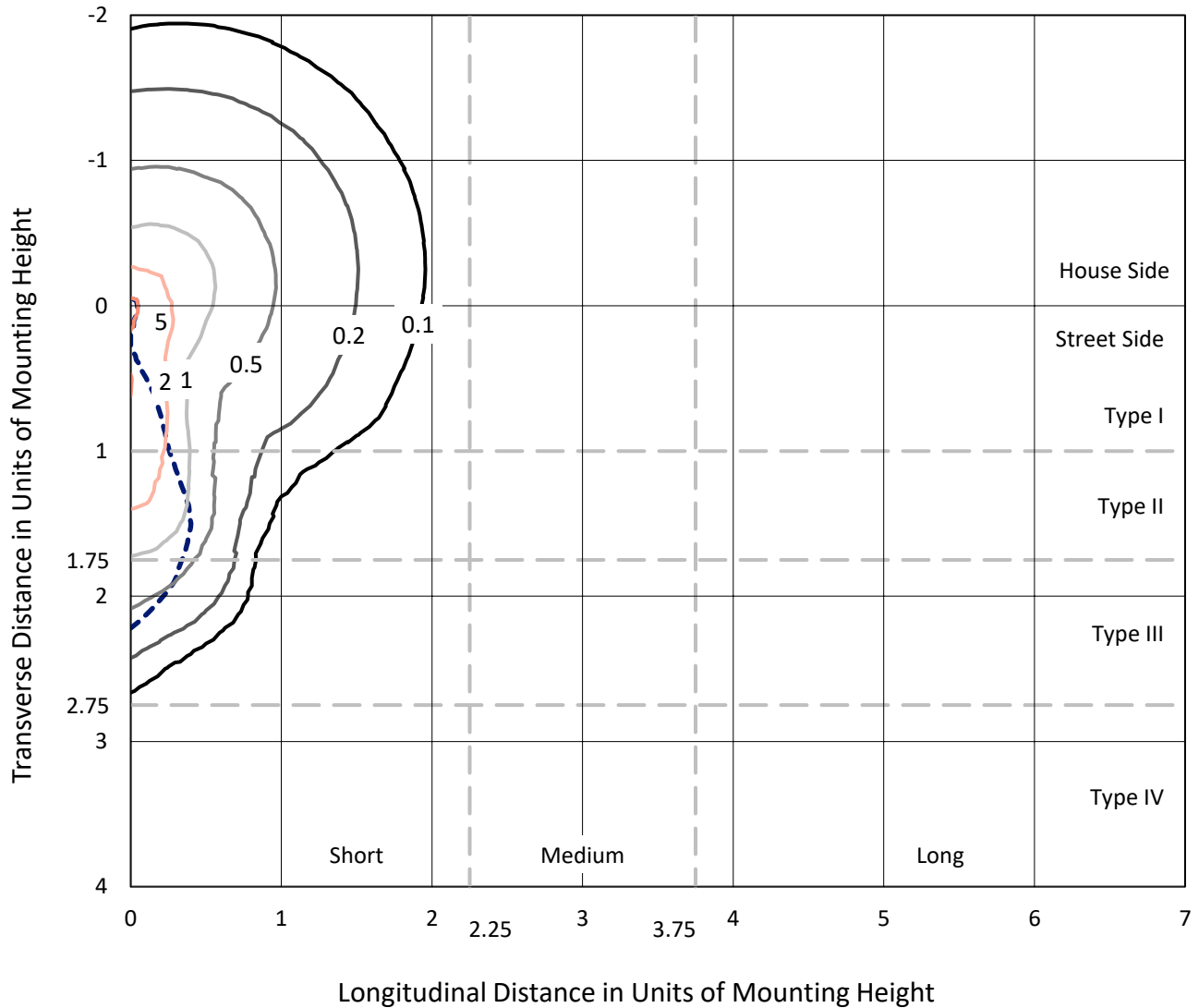
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

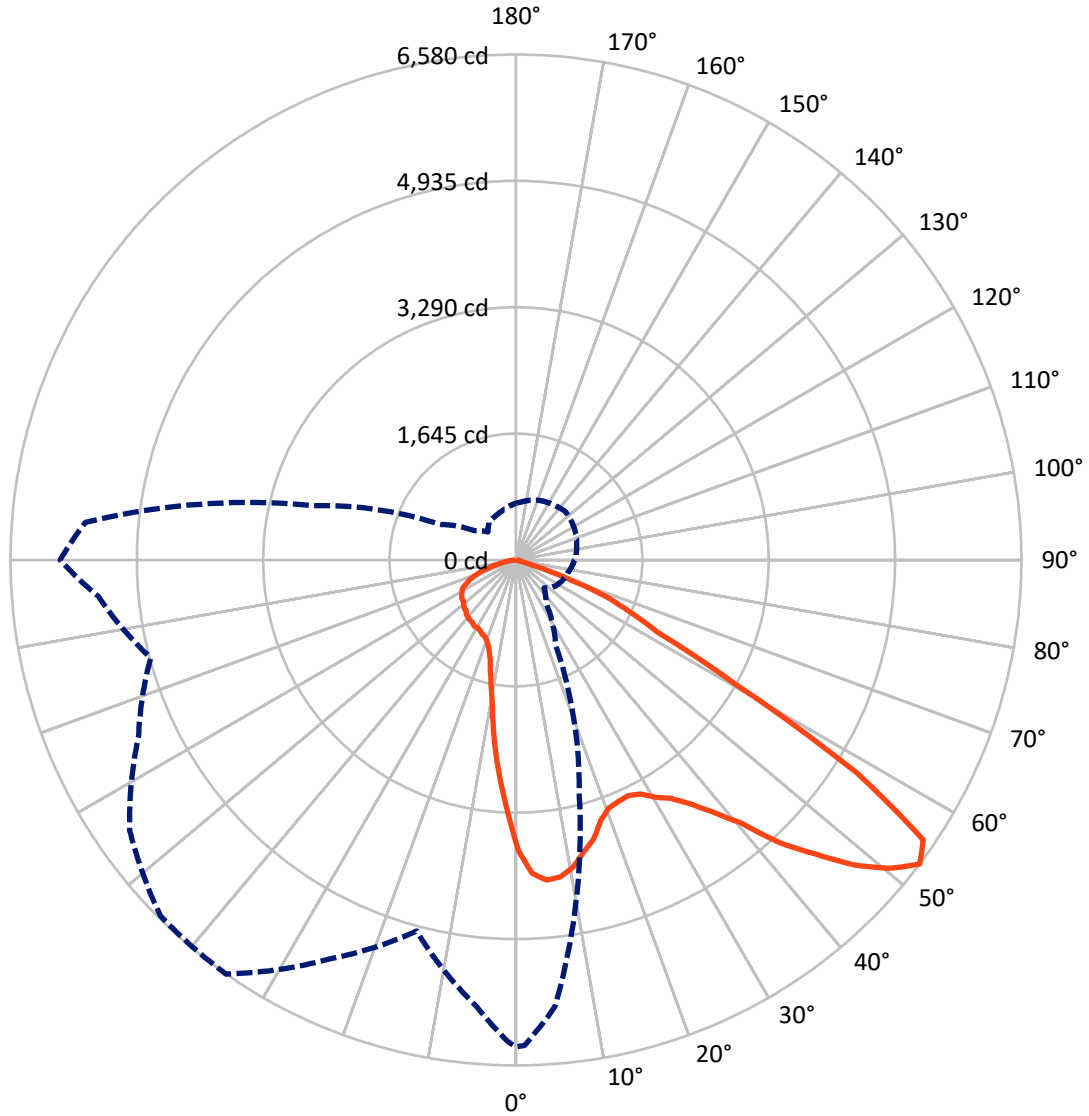
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2567.5	0.0	2567.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	5949.5	0.0	5949.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	8517.0	0.0	8517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.4	3.4
10°-20°	625.2	7.3
20°-30°	944.5	11.1
30°-40°	1364.9	16.0
40°-50°	1816.5	21.3
50°-60°	2031.8	23.9
60°-70°	1145.1	13.4
70°-80°	255.3	3.0
80°-90°	45.5	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



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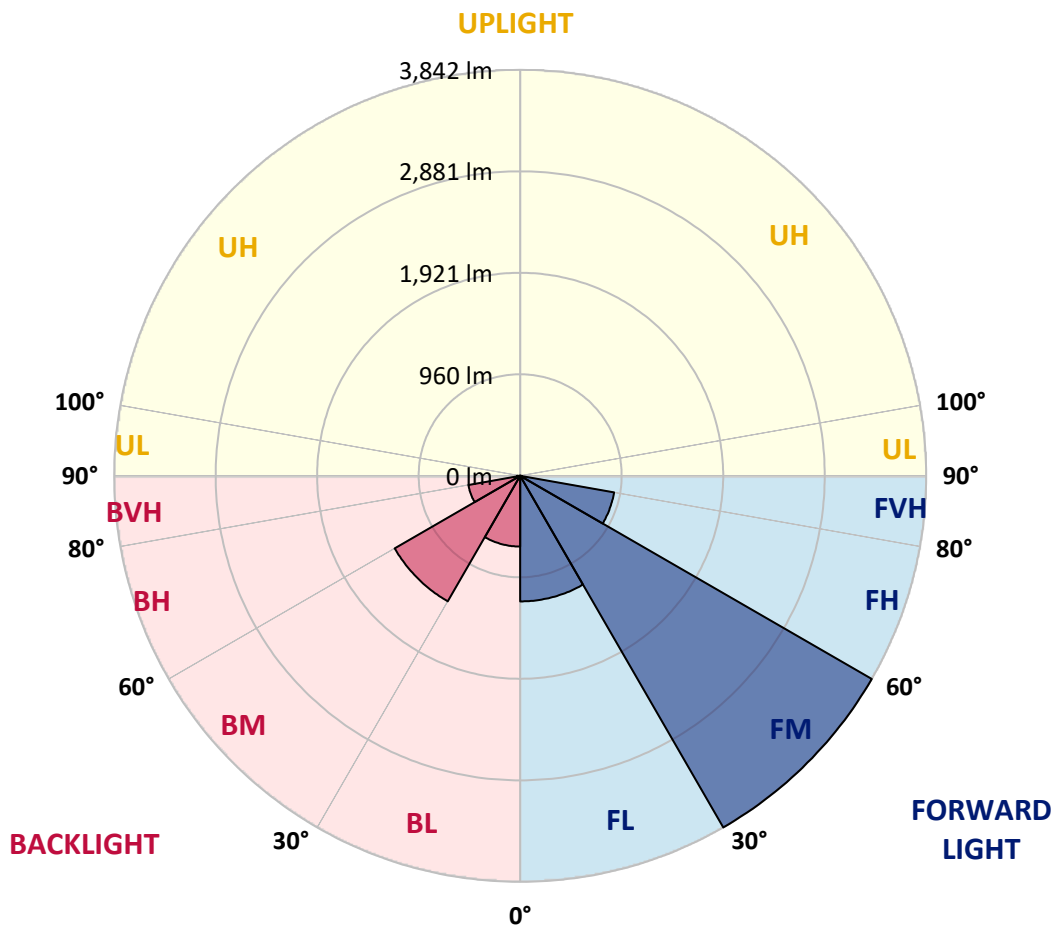
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1188.5	14.0			
FM (30°-60°)	3841.8	45.1			
FH (60°-80°)	902.7	10.6			G1/1800
FVH (80°-90°)	16.5	0.2			G1/100
BL (0°-30°)	669.5	7.9	B2/1000		
BM (30°-60°)	1371.3	16.1	B2/2500		
BH (60°-80°)	497.7	5.8	B1/500		G1/500
BVH (80°-90°)	29.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9
2.5°	3842.9	3904.6	3837.9	3719.4	3635.5	3558.9	3478.7	3462.6	3357.7	3339.2	3262.7
5°	3624.4	3610.8	3529.3	3373.8	3202.2	3046.6	2931.8	2820.7	2745.4	2657.8	2651.6
7.5°	3358.9	3279.9	3233.0	2997.3	2784.9	2540.5	2435.6	2266.5	2213.4	2134.4	2093.6
10°	3121.9	3063.9	2954.0	2718.3	2422.0	2260.3	2147.9	2056.6	1994.9	1913.4	1810.9
12.5°	3004.7	2981.2	2857.8	2492.4	2272.6	2099.8	2020.8	1931.9	1827.0	1696.1	1645.5
15°	3025.6	2946.6	2852.8	2449.2	2145.5	1978.8	1852.9	1741.8	1607.3	1482.6	1409.7
17.5°	3182.4	3121.9	2934.3	2476.3	2097.3	1856.6	1628.2	1464.1	1343.1	1230.8	1180.1
20°	3491.0	3403.4	3192.3	2510.9	1993.6	1686.3	1424.6	1222.1	1092.5	1033.2	1016.0
22.5°	3833.0	3781.1	3444.1	2588.6	1910.9	1528.3	1208.5	1006.1	957.9	941.9	974.0
25°	4249.0	4114.4	3835.4	2715.8	1846.7	1393.7	1025.8	913.5	888.8	904.9	941.9
27.5°	4565.0	4529.2	4109.5	2835.5	1759.1	1232.0	923.4	849.3	856.7	872.8	907.3
30°	4940.3	4758.8	4374.9	2918.2	1680.1	1120.9	851.8	832.0	839.4	866.6	883.9
32.5°	5166.2	5098.3	4541.6	3042.9	1588.7	1024.6	796.2	777.7	788.8	829.6	870.3
35°	5453.8	5319.3	4747.7	3075.0	1524.6	986.3	756.7	743.1	769.1	797.5	843.1
37.5°	5789.6	5697.0	5032.9	3052.8	1490.0	946.8	723.4	717.2	735.7	775.2	828.3
40°	5988.3	5959.9	5182.2	3066.4	1435.7	912.3	685.1	692.5	730.8	761.7	813.5
42.5°	6179.7	5994.5	5403.2	3061.4	1401.1	865.4	688.8	680.2	709.8	745.6	795.0
45°	6221.6	6037.7	5455.1	3026.9	1359.1	819.7	660.4	664.1	699.9	744.4	776.5
47.5°	6194.5	6058.7	5551.3	3017.0	1319.6	787.6	618.5	662.9	683.9	719.7	765.4
50°	6176.0	6168.6	5632.8	3063.9	1266.5	737.0	567.8	646.9	667.8	703.6	753.0
52.5°	6338.9	6322.9	5836.5	3187.4	1224.6	682.7	516.0	606.1	656.7	691.3	739.4
55°	6437.7	6367.3	6185.8	3339.2	1154.2	611.1	480.2	555.5	629.6	660.4	709.8
57.5°	5790.8	5742.7	5595.8	3117.0	1035.7	517.2	435.8	503.7	592.5	640.7	691.3
60°	4818.1	4742.8	4366.3	2649.1	764.1	402.4	408.6	462.9	582.7	601.2	660.4
62.5°	4542.8	4356.4	3844.1	2131.9	586.4	345.6	366.6	425.9	530.8	561.7	620.9
65°	3604.6	3466.3	2750.4	1539.4	392.6	300.0	334.5	383.9	458.0	518.5	572.8
67.5°	2256.6	2124.5	1467.8	728.3	274.0	256.8	298.7	350.6	411.1	465.4	525.9
70°	1178.9	1034.5	677.7	262.9	188.9	209.9	249.4	298.7	358.0	402.4	449.3
72.5°	439.5	356.8	221.0	113.6	130.9	160.5	202.5	238.2	280.2	334.5	360.5
75°	67.9	58.0	56.8	69.1	88.9	116.0	144.4	180.2	217.3	251.8	269.1
77.5°	32.1	30.9	34.6	45.7	59.3	82.7	104.9	139.5	169.1	191.3	201.2
80°	21.0	19.8	22.2	30.9	44.4	61.7	83.9	107.4	134.6	153.1	150.6
82.5°	12.3	13.6	13.6	21.0	30.9	44.4	60.5	81.5	100.0	116.0	106.2
85°	7.4	6.2	6.2	12.3	21.0	35.8	50.6	34.6	35.8	35.8	40.7
87.5°	2.5	2.5	2.5	1.2	2.5	2.5	3.7	6.2	7.4	8.6	11.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9
2.5°	3260.2	3298.5	3284.9	3236.7	3273.8	3279.9	3255.3	3340.4	3356.5	3330.6	3338.0
5°	2643.0	2652.8	2675.1	2722.0	2755.3	2794.8	2794.8	2797.3	2763.9	2847.9	2823.2
7.5°	2059.1	2065.2	2091.2	2191.2	2219.5	2294.8	2326.9	2304.7	2238.1	2209.7	2233.1
10°	1777.6	1741.8	1733.2	1745.5	1809.7	1841.8	1869.0	1861.6	1850.4	1828.2	1803.5
12.5°	1590.0	1564.1	1543.1	1513.4	1517.1	1548.0	1569.0	1551.7	1556.6	1561.6	1569.0
15°	1386.3	1367.8	1356.7	1312.2	1307.3	1328.3	1335.7	1345.6	1364.1	1365.3	1356.7
17.5°	1170.3	1154.2	1178.9	1203.6	1186.3	1187.5	1201.1	1209.8	1204.8	1182.6	1171.5
20°	1022.1	1039.4	1064.1	1087.6	1106.1	1117.2	1122.1	1108.5	1092.5	1046.8	1045.6
22.5°	978.9	1001.1	1022.1	1057.9	1075.2	1103.6	1077.7	1046.8	1024.6	1002.4	976.5
25°	946.8	965.3	1007.3	1020.9	1054.2	1077.7	1059.2	1028.3	990.0	957.9	938.2
27.5°	923.4	944.4	971.5	1008.5	1034.5	1048.1	1029.5	1017.2	977.7	939.4	911.0
30°	908.6	930.8	980.2	1011.0	1033.2	1044.3	1012.3	997.4	969.0	937.0	912.3
32.5°	898.7	918.4	960.4	999.9	1014.7	1014.7	1019.7	1002.4	962.9	908.6	887.6
35°	866.6	893.7	928.3	974.0	1001.1	1017.2	992.5	972.7	946.8	891.3	853.0
37.5°	848.1	866.6	911.0	954.2	977.7	995.0	985.1	950.5	916.0	870.3	839.4
40°	828.3	857.9	897.4	938.2	964.1	981.4	974.0	933.2	891.3	848.1	827.1
42.5°	814.7	834.5	875.2	920.9	951.8	985.1	962.9	912.3	882.6	823.4	799.9
45°	803.6	835.7	878.9	897.4	929.5	964.1	924.6	893.7	859.2	816.0	796.2
47.5°	790.1	819.7	848.1	897.4	912.3	928.3	920.9	871.5	841.9	795.0	781.4
50°	785.1	796.2	848.1	875.2	896.2	912.3	892.5	855.5	827.1	778.9	749.3
52.5°	765.4	786.3	819.7	855.5	881.4	901.2	869.1	845.6	807.3	756.7	738.2
55°	740.7	753.0	812.3	849.3	862.9	876.5	864.1	825.8	786.3	734.5	716.0
57.5°	708.6	737.0	785.1	837.0	854.2	861.6	841.9	811.0	761.7	716.0	686.4
60°	675.2	704.9	758.0	799.9	817.2	844.4	814.7	796.2	739.4	688.8	656.7
62.5°	641.9	675.2	714.7	767.8	782.6	793.8	786.3	760.4	714.7	658.0	618.5
65°	602.4	627.1	676.5	703.6	713.5	739.4	713.5	703.6	662.9	608.6	575.3
67.5°	543.2	564.1	607.4	633.3	640.7	651.8	650.6	639.4	593.8	556.7	527.1
70°	475.3	493.8	520.9	551.8	555.5	569.1	556.7	554.3	524.6	474.0	458.0
72.5°	381.4	398.7	434.5	448.1	449.3	454.3	448.1	439.5	432.1	379.0	362.9
75°	292.6	302.4	319.7	332.1	332.1	338.2	334.5	325.9	306.1	272.8	256.8
77.5°	203.7	213.6	235.8	243.2	242.0	244.4	233.3	224.7	195.0	177.8	164.2
80°	148.1	154.3	165.4	170.4	171.6	175.3	161.7	154.3	137.0	117.3	111.1
82.5°	107.4	111.1	112.3	118.5	118.5	112.3	108.6	101.2	88.9	76.5	71.6
85°	44.4	45.7	46.9	54.3	55.6	66.7	61.7	58.0	50.6	43.2	39.5
87.5°	11.1	12.3	16.0	13.6	16.0	16.0	17.3	19.8	19.8	16.0	16.0
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°	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9
2.5°	3366.4	3376.2	3502.1	3518.2	3579.9	3642.9	3770.0	3861.4	3935.4	3983.6	3997.2
5°	2849.1	2912.1	2970.1	3063.9	3149.1	3270.1	3409.6	3582.4	3799.6	3910.7	3955.2
7.5°	2230.7	2304.7	2388.7	2480.0	2604.7	2822.0	3008.4	3208.3	3486.1	3600.9	3775.0
10°	1820.8	1903.5	2014.6	2085.0	2235.6	2443.0	2660.2	2891.1	3156.5	3321.9	3523.1
12.5°	1609.7	1677.6	1780.1	1928.2	2040.6	2175.1	2336.8	2628.2	3008.4	3165.1	3303.4
15°	1376.4	1451.7	1570.2	1734.4	1869.0	2029.4	2210.9	2528.2	2933.1	3175.0	3292.3
17.5°	1183.8	1238.2	1362.8	1504.8	1659.1	1834.4	2094.9	2523.2	3012.1	3321.9	3513.3
20°	1050.5	1057.9	1125.8	1246.8	1456.7	1685.0	2023.3	2498.5	3265.1	3575.0	3816.9
22.5°	966.6	959.2	960.4	1062.9	1209.8	1538.1	1910.9	2582.5	3552.8	3977.4	4140.4
25°	924.6	904.9	892.5	914.7	1048.1	1364.1	1825.8	2693.6	3862.6	4309.5	4509.5
27.5°	902.4	867.8	843.1	846.8	944.4	1276.4	1772.7	2741.7	4170.0	4772.4	4842.8
30°	893.7	850.5	814.7	802.4	866.6	1154.2	1659.1	2824.4	4445.3	5026.7	5087.2
32.5°	862.9	809.8	775.2	764.1	790.1	1046.8	1577.6	2883.7	4688.5	5303.2	5282.2
35°	827.1	782.6	739.4	718.5	737.0	977.7	1512.2	2855.3	4974.8	5518.0	5506.9
37.5°	823.4	765.4	729.6	695.0	693.8	892.5	1423.3	2882.4	5157.5	5903.2	5751.3
40°	791.3	754.3	707.3	678.9	662.9	849.3	1336.9	2818.3	5425.4	6058.7	5909.3
42.5°	792.5	737.0	696.2	662.9	646.9	786.3	1277.7	2801.0	5519.2	6311.8	5983.4
45°	772.8	718.5	683.9	644.4	635.7	738.2	1220.9	2720.7	5684.7	6324.1	5890.8
47.5°	753.0	704.9	667.8	620.9	601.2	720.9	1176.4	2654.1	5598.2	6208.1	5762.4
50°	739.4	683.9	649.3	616.0	560.4	691.3	1118.4	2638.0	5477.3	6051.3	5524.2
52.5°	716.0	666.6	630.8	604.9	516.0	664.1	1096.2	2731.8	5625.4	5934.0	5455.1
55°	693.8	643.2	597.5	546.9	479.0	592.5	1034.5	2819.5	5841.4	6204.4	5768.6
57.5°	670.3	622.2	572.8	512.3	443.2	518.5	970.3	2835.5	5436.5	5734.0	5476.0
60°	639.4	577.7	540.7	461.7	404.9	429.6	769.1	2499.8	4216.9	4788.4	4797.1
62.5°	604.9	538.2	506.1	413.5	365.4	370.3	627.1	2101.0	3420.7	3963.8	4199.6
65°	559.2	495.0	456.7	382.7	337.0	321.0	459.2	1539.4	2598.5	3215.8	3483.6
67.5°	500.0	439.5	391.3	333.3	301.2	275.3	313.6	866.6	1534.4	2159.1	2240.5
70°	437.0	385.1	334.5	286.4	250.6	232.1	229.6	383.9	733.3	1161.6	1322.1
72.5°	344.4	307.4	266.6	230.8	207.4	180.2	164.2	159.2	248.1	472.8	653.0
75°	246.9	216.0	192.6	169.1	151.8	137.0	124.7	113.6	103.7	118.5	162.9
77.5°	155.5	144.4	125.9	119.7	109.9	106.2	101.2	95.1	87.6	82.7	82.7
80°	104.9	97.5	91.3	90.1	86.4	85.2	86.4	80.2	72.8	66.7	69.1
82.5°	70.4	69.1	67.9	66.7	67.9	69.1	71.6	70.4	64.2	60.5	61.7
85°	42.0	44.4	46.9	49.4	54.3	48.1	39.5	33.3	29.6	27.2	25.9
87.5°	16.0	22.2	19.8	18.5	19.8	18.5	17.3	16.0	13.6	12.3	12.3
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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 CATALOG NUMBER: GALN-SA2D-827-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9
2.5°	4087.3	4112.0	4133.0	4128.0	4084.8	4026.8	4003.3	3883.6	3858.9	3842.9
5°	4142.8	4286.0	4316.9	4298.4	4186.0	4044.1	3905.8	3730.5	3628.1	3624.4
7.5°	4040.4	4216.9	4272.4	4314.4	4165.0	3918.2	3681.1	3418.2	3354.0	3358.9
10°	3779.9	4061.4	4198.4	4241.6	4070.0	3856.4	3528.1	3261.4	3124.4	3121.9
12.5°	3635.5	3856.4	3894.7	3955.2	3904.6	3688.5	3439.2	3140.4	3007.1	3004.7
15°	3507.1	3652.7	3663.9	3749.0	3776.2	3630.5	3462.6	3144.2	3036.8	3025.6
17.5°	3619.4	3518.2	3476.2	3487.3	3567.6	3620.7	3598.4	3354.0	3244.1	3182.4
20°	3694.7	3468.8	3341.7	3354.0	3449.1	3642.9	3800.9	3657.7	3483.6	3491.0
22.5°	3895.9	3476.2	3277.5	3263.9	3414.5	3758.9	4029.3	4041.6	3873.7	3833.0
25°	4197.1	3561.4	3257.7	3254.0	3398.5	3883.6	4295.9	4495.9	4324.3	4249.0
27.5°	4439.1	3694.7	3319.4	3331.8	3449.1	3984.8	4523.0	4788.4	4657.6	4565.0
30°	4651.4	3833.0	3405.9	3349.1	3584.9	4037.9	4620.6	5121.7	5016.8	4940.3
32.5°	4739.1	4029.3	3542.9	3449.1	3697.2	4102.1	4823.0	5445.2	5355.1	5166.2
35°	4887.2	4139.1	3616.9	3609.5	3893.5	4256.4	4918.1	5658.7	5621.7	5453.8
37.5°	5005.7	4250.2	3879.9	3798.4	4162.6	4515.6	5071.1	5953.8	5868.6	5789.6
40°	5097.1	4449.0	4125.5	4232.9	4493.4	4751.4	5211.9	5972.3	6217.9	5988.3
42.5°	5013.1	4626.7	4529.2	4786.0	5032.9	5020.5	5227.9	6115.5	6299.4	6179.7
45°	4992.1	4927.9	5167.4	5400.7	5457.5	5244.0	5113.1	5957.5	6274.7	6221.6
47.5°	4941.5	5224.2	5641.5	6021.7	5935.3	5393.3	4976.1	5929.1	6289.5	6194.5
50°	4924.2	5288.4	5992.0	6362.4	6310.5	5522.9	4911.9	5746.4	6184.6	6176.0
52.5°	4923.0	5420.5	6137.7	6547.5	6579.6	5727.9	4999.5	5839.0	6266.1	6338.9
55°	4978.6	5378.5	6119.2	6445.1	6432.7	5636.5	5009.4	5900.7	6366.1	6437.7
57.5°	4695.9	4818.1	5050.1	5308.2	5241.5	4668.7	4473.7	5455.1	5842.7	5790.8
60°	4055.2	3672.5	3410.8	3398.5	3268.8	3089.8	3661.4	4868.7	4868.7	4818.1
62.5°	3551.5	2410.9	2071.4	1975.1	2067.7	2273.9	3531.8	4735.4	4600.8	4542.8
65°	3105.9	1840.6	1497.4	1470.2	1630.7	1941.8	3193.5	4034.2	3797.2	3604.6
67.5°	1998.6	1348.0	1113.5	1065.3	1259.1	1425.8	2125.7	2481.3	2331.9	2256.6
70°	1288.8	877.7	619.7	581.4	656.7	878.9	1357.9	1446.8	1229.5	1178.9
72.5°	609.8	379.0	217.3	179.0	201.2	335.8	537.0	577.7	480.2	439.5
75°	193.8	139.5	88.9	76.5	72.8	86.4	123.4	95.1	69.1	67.9
77.5°	86.4	82.7	70.4	59.3	51.8	43.2	35.8	29.6	30.9	32.1
80°	71.6	65.4	58.0	51.8	43.2	33.3	25.9	19.8	19.8	21.0
82.5°	63.0	56.8	50.6	43.2	37.0	27.2	19.8	13.6	12.3	12.3
85°	27.2	32.1	34.6	37.0	29.6	22.2	13.6	8.6	7.4	7.4
87.5°	11.1	9.9	8.6	7.4	6.2	6.2	4.9	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)