

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: P646789

Luminaire Tested: **GALN-SA2C-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646789
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-SA2C-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA 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: 8245 lumens
Efficiency: N/A
Efficacy: 76.3 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): 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

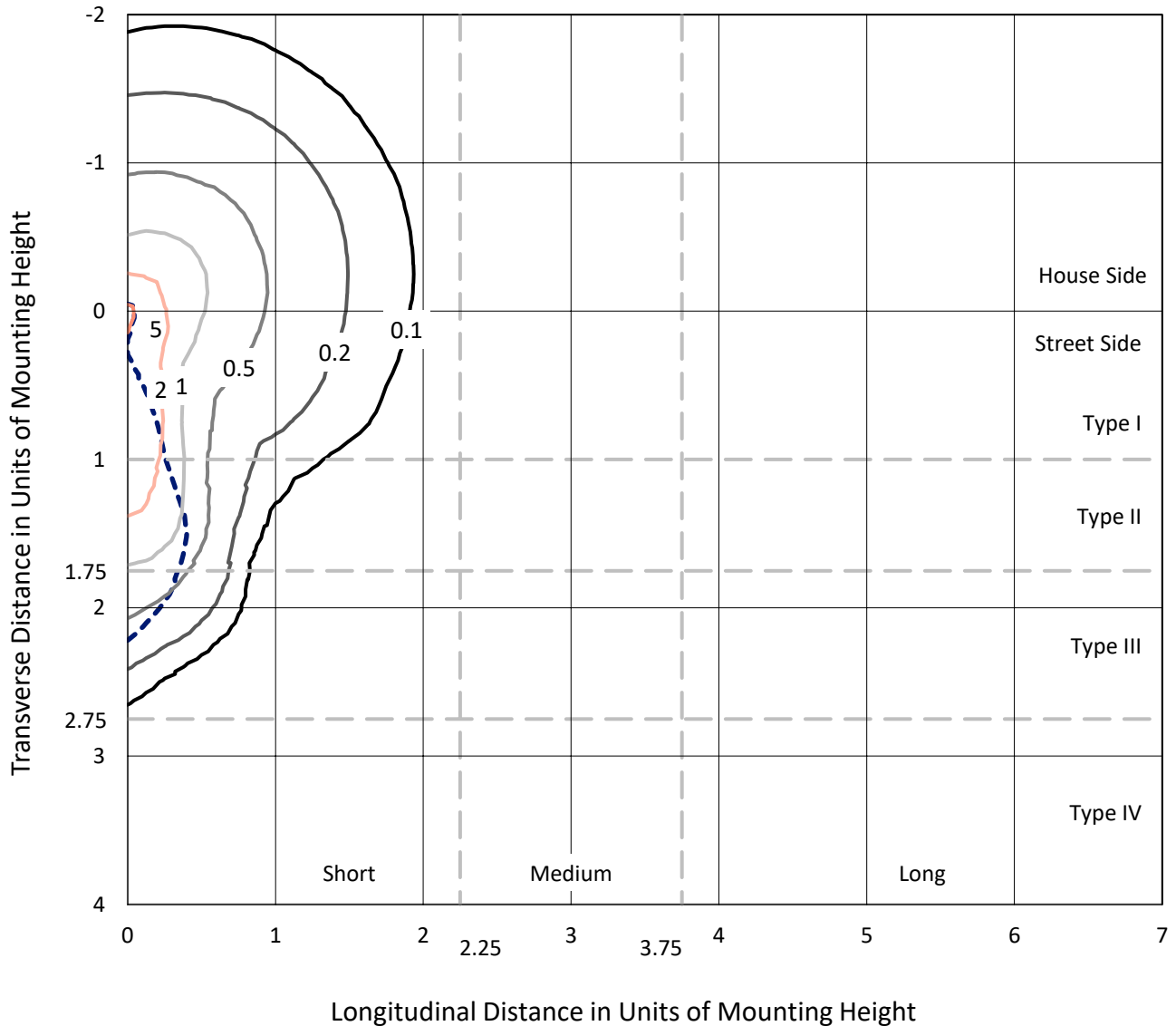




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Iso-Footcandle Lines of Horizontal Illumination

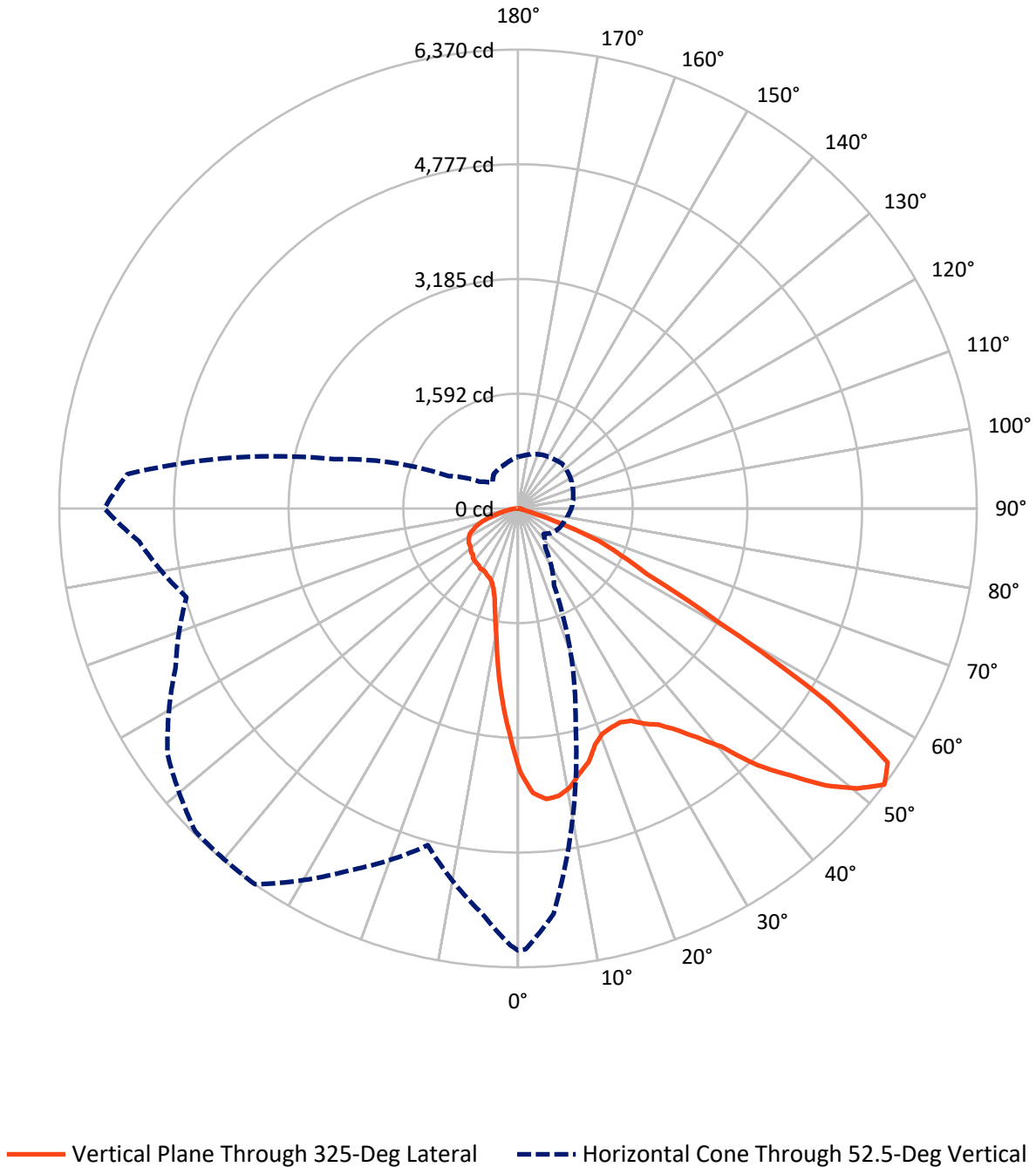
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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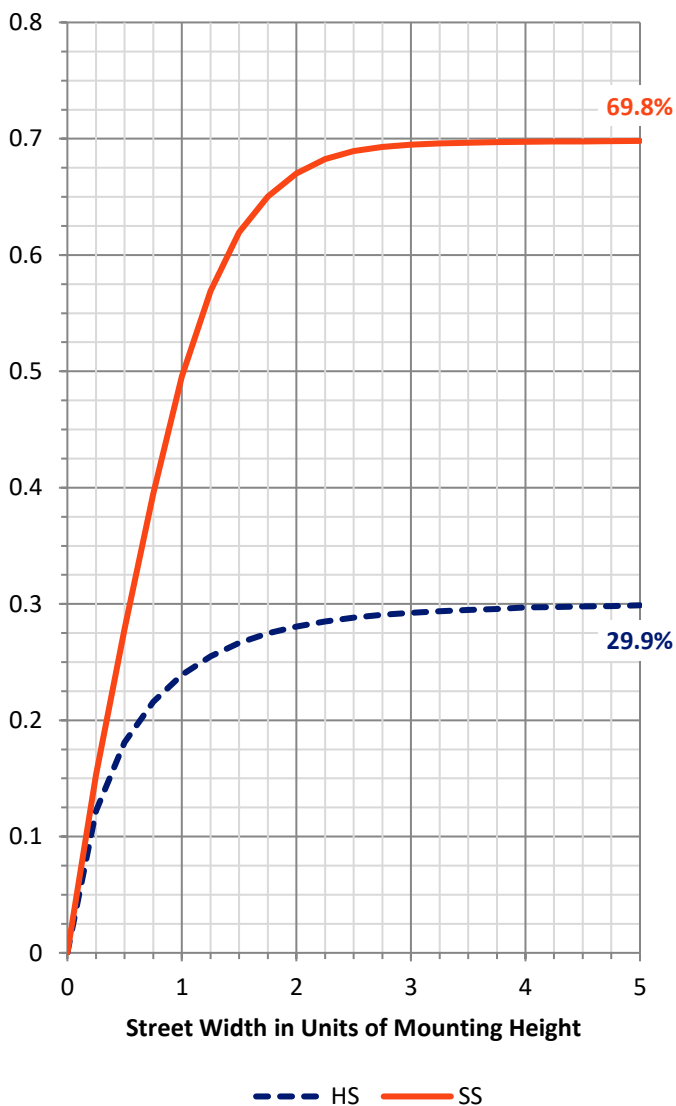
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2485.5	0.0	2485.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	5759.5	0.0	5759.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	8245.0	0.0	8245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.2	3.4
10°-20°	605.2	7.3
20°-30°	914.4	11.1
30°-40°	1321.3	16.0
40°-50°	1758.4	21.3
50°-60°	1966.9	23.9
60°-70°	1108.5	13.4
70°-80°	247.1	3.0
80°-90°	44.0	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°	8245.0	100.0
0°-180°	8245.0	100.0

Coefficient of Utilization



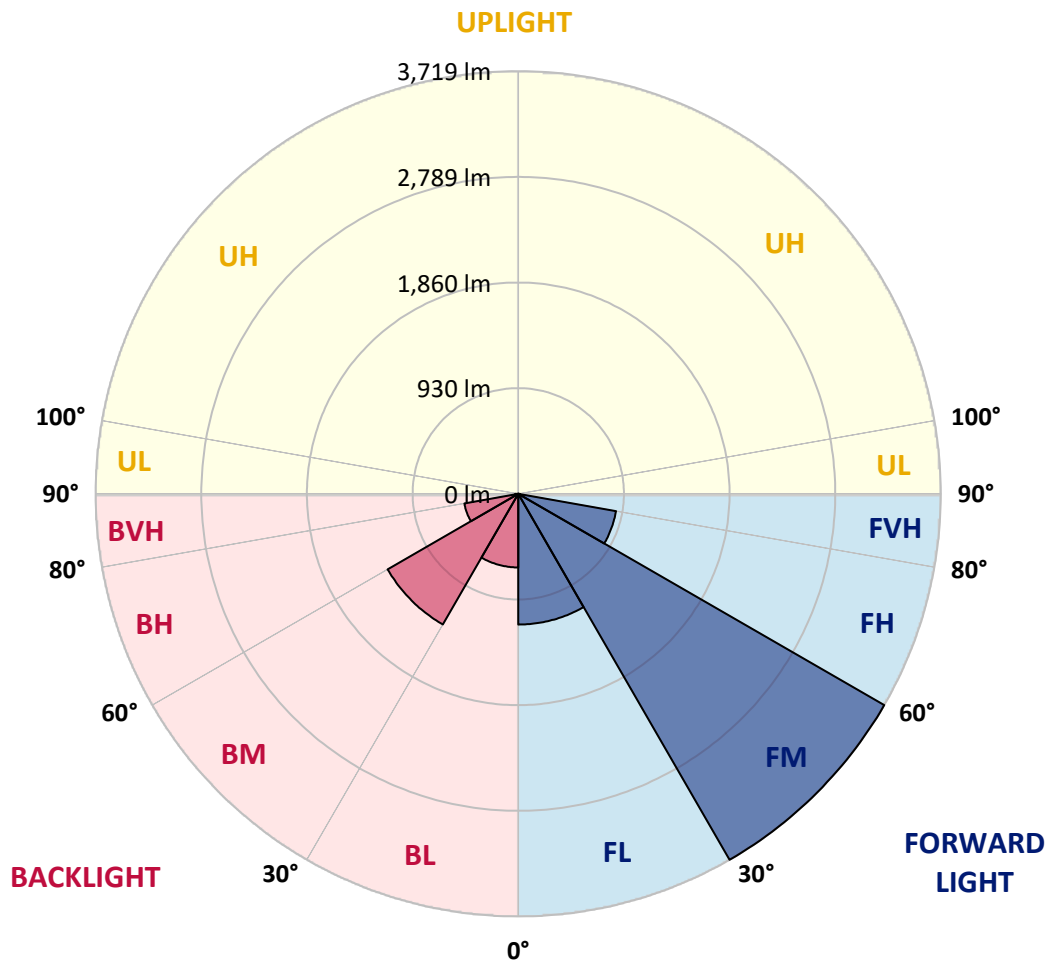
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1150.6	14.0			
FM (30°-60°)	3719.1	45.1			
FH (60°-80°)	873.8	10.6			G1/1800
FVH (80°-90°)	15.9	0.2			G1/100
BL (0°-30°)	648.2	7.9	B2/1000		
BM (30°-60°)	1327.5	16.1	B2/2500		
BH (60°-80°)	481.8	5.8	B1/500		G1/500
BVH (80°-90°)	28.1	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°	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2
2.5°	3720.1	3779.9	3715.3	3600.6	3519.4	3445.3	3367.6	3352.0	3250.5	3232.5	3158.5
5°	3508.6	3495.5	3416.6	3266.0	3099.9	2949.3	2838.2	2730.6	2657.7	2572.9	2566.9
7.5°	3251.6	3175.2	3129.8	2901.6	2695.9	2459.4	2357.8	2194.0	2142.7	2066.2	2026.8
10°	3022.2	2966.1	2859.7	2631.4	2344.6	2188.1	2079.3	1990.9	1931.2	1852.3	1753.1
12.5°	2908.7	2886.0	2766.5	2412.7	2200.1	2032.7	1956.2	1870.2	1768.6	1642.0	1592.9
15°	2929.0	2852.5	2761.7	2370.9	2077.0	1915.6	1793.8	1686.2	1555.9	1435.2	1364.7
17.5°	3080.8	3022.2	2840.6	2397.2	2030.3	1797.3	1576.3	1417.3	1300.2	1191.4	1142.5
20°	3379.5	3294.7	3090.3	2430.7	1929.9	1632.4	1379.1	1183.1	1057.6	1000.2	983.5
22.5°	3710.6	3660.4	3334.1	2506.0	1849.9	1479.5	1170.0	974.0	927.3	911.8	942.9
25°	4113.3	3983.0	3713.0	2629.1	1787.7	1349.2	993.1	884.3	860.4	875.9	911.8
27.5°	4419.3	4384.6	3978.3	2745.0	1702.9	1192.7	893.9	822.2	829.4	844.9	878.4
30°	4782.5	4606.9	4235.2	2825.1	1626.4	1085.1	824.6	805.5	812.6	838.9	855.7
32.5°	5001.2	4935.5	4396.5	2945.7	1538.0	991.9	770.8	752.9	763.7	803.0	842.5
35°	5279.6	5149.4	4596.1	2976.8	1475.9	954.8	732.6	719.4	744.5	772.0	816.2
37.5°	5604.7	5515.1	4872.1	2955.3	1442.4	916.6	700.3	694.3	712.2	750.5	801.9
40°	5797.1	5769.6	5016.8	2968.4	1389.8	883.1	663.3	670.4	707.4	737.4	787.5
42.5°	5982.3	5803.0	5230.7	2963.7	1356.4	837.7	666.8	658.4	687.2	721.8	769.6
45°	6022.9	5844.9	5280.9	2930.2	1315.8	793.5	639.3	642.9	677.6	720.6	751.7
47.5°	5996.7	5865.2	5374.0	2920.7	1277.5	762.4	598.7	641.7	662.0	696.7	741.0
50°	5978.8	5971.5	5452.9	2966.1	1226.1	713.5	549.7	626.2	646.5	681.1	729.0
52.5°	6136.4	6120.9	5650.1	3085.6	1185.5	660.9	499.6	586.8	635.7	669.2	715.8
55°	6232.1	6163.9	5988.3	3232.5	1117.3	591.6	464.9	537.8	609.5	639.3	687.2
57.5°	5605.9	5559.3	5417.0	3017.4	1002.6	500.7	421.9	487.6	573.6	620.2	669.2
60°	4664.2	4591.3	4226.8	2564.6	739.7	389.5	395.6	448.1	564.1	582.0	639.3
62.5°	4397.7	4217.2	3721.3	2063.8	567.7	334.6	354.9	412.2	513.9	543.7	601.1
65°	3489.5	3355.6	2662.5	1490.2	380.0	290.4	323.8	371.7	443.3	501.9	554.5
67.5°	2184.5	2056.6	1420.9	705.1	265.3	248.6	289.2	339.4	397.9	450.5	509.1
70°	1141.2	1001.5	656.1	254.6	182.8	203.2	241.4	289.2	346.6	389.5	435.0
72.5°	425.4	345.4	213.9	109.9	126.7	155.3	196.0	230.7	271.3	323.8	349.0
75°	65.7	56.1	55.0	66.9	86.1	112.4	139.8	174.5	210.3	243.7	260.5
77.5°	31.1	29.9	33.4	44.2	57.4	80.1	101.6	135.1	163.7	185.3	194.8
80°	20.3	19.1	21.5	29.9	43.0	59.7	81.3	104.0	130.3	148.2	145.8
82.5°	12.0	13.2	13.2	20.3	29.9	43.0	58.6	78.8	96.8	112.4	102.8
85°	7.2	6.0	6.0	12.0	20.3	34.7	49.0	33.4	34.7	34.7	39.5
87.5°	2.4	2.4	2.4	1.2	2.4	2.4	3.6	6.0	7.2	8.4	10.7
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°	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2
2.5°	3156.0	3193.2	3180.0	3133.3	3169.2	3175.2	3151.3	3233.7	3249.3	3224.2	3231.4
5°	2558.5	2568.1	2589.6	2635.0	2667.3	2705.6	2705.6	2707.9	2675.7	2756.9	2733.1
7.5°	1993.3	1999.3	2024.4	2121.1	2148.6	2221.5	2252.6	2231.1	2166.6	2139.1	2161.8
10°	1720.9	1686.2	1677.8	1689.8	1751.9	1783.0	1809.3	1802.1	1791.3	1769.8	1745.9
12.5°	1539.2	1514.1	1493.8	1465.1	1468.7	1498.6	1518.9	1502.2	1507.0	1511.7	1518.9
15°	1342.0	1324.1	1313.3	1270.3	1265.6	1285.8	1293.0	1302.6	1320.5	1321.7	1313.3
17.5°	1132.9	1117.3	1141.2	1165.2	1148.4	1149.6	1162.8	1171.1	1166.4	1144.8	1134.1
20°	989.5	1006.2	1030.1	1052.8	1070.8	1081.5	1086.3	1073.1	1057.6	1013.4	1012.2
22.5°	947.7	969.2	989.5	1024.2	1040.8	1068.3	1043.3	1013.4	991.9	970.4	945.2
25°	916.6	934.5	975.1	988.3	1020.6	1043.3	1025.3	995.4	958.4	927.3	908.2
27.5°	893.9	914.2	940.5	976.3	1001.5	1014.6	996.7	984.7	946.5	909.5	881.9
30°	879.5	901.1	948.8	978.8	1000.2	1011.0	979.9	965.6	938.1	907.0	883.1
32.5°	870.0	889.1	929.7	967.9	982.4	982.4	987.1	970.4	932.1	879.5	859.3
35°	838.9	865.2	898.6	942.9	969.2	984.7	960.8	941.7	916.6	862.8	825.8
37.5°	821.0	838.9	881.9	923.8	946.5	963.2	953.6	920.2	886.7	842.5	812.6
40°	801.9	830.5	868.8	908.2	933.3	950.0	942.9	903.4	862.8	821.0	800.7
42.5°	788.7	807.8	847.3	891.5	921.4	953.6	932.1	883.1	854.4	797.1	774.4
45°	778.0	809.0	850.9	868.8	899.8	933.3	895.0	865.2	831.7	789.9	770.8
47.5°	764.8	793.5	821.0	868.8	883.1	898.6	891.5	843.7	815.0	769.6	756.5
50°	760.1	770.8	821.0	847.3	867.6	883.1	864.0	828.2	800.7	754.0	725.4
52.5°	741.0	761.2	793.5	828.2	853.2	872.3	841.3	818.6	781.5	732.6	714.6
55°	717.0	729.0	786.4	822.2	835.3	848.5	836.6	799.4	761.2	711.0	693.1
57.5°	685.9	713.5	760.1	810.2	826.9	834.1	815.0	785.1	737.4	693.1	664.5
60°	653.6	682.4	733.7	774.4	791.1	817.4	788.7	770.8	715.8	666.8	635.7
62.5°	621.4	653.6	691.9	743.3	757.6	768.4	761.2	736.2	691.9	637.0	598.7
65°	583.2	607.1	654.9	681.1	690.8	715.8	690.8	681.1	641.7	589.1	556.9
67.5°	525.8	546.1	588.0	613.0	620.2	630.9	629.8	619.0	574.8	538.9	510.3
70°	460.1	478.0	504.3	534.2	537.8	550.9	538.9	536.6	507.9	458.9	443.3
72.5°	369.3	386.0	420.6	433.8	435.0	439.7	433.8	425.4	418.3	366.8	351.3
75°	283.2	292.8	309.5	321.5	321.5	327.5	323.8	315.5	296.4	264.1	248.6
77.5°	197.2	206.7	228.2	235.4	234.2	236.6	225.9	217.5	188.8	172.1	158.9
80°	143.4	149.4	160.1	164.9	166.1	169.7	156.5	149.4	132.6	113.5	107.6
82.5°	104.0	107.6	108.8	114.7	114.7	108.8	105.2	98.0	86.1	74.1	69.3
85°	43.0	44.2	45.4	52.6	53.8	64.5	59.7	56.1	49.0	41.8	38.2
87.5°	10.7	12.0	15.5	13.2	15.5	15.5	16.8	19.1	19.1	15.5	15.5
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°	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2
2.5°	3258.8	3268.4	3390.3	3405.8	3465.6	3526.6	3649.6	3738.0	3809.8	3856.4	3869.5
5°	2758.1	2819.0	2875.3	2966.1	3048.5	3165.7	3300.7	3468.0	3678.3	3785.9	3828.9
7.5°	2159.4	2231.1	2312.4	2400.8	2521.5	2731.8	2912.3	3105.8	3374.7	3485.9	3654.4
10°	1762.7	1842.7	1950.3	2018.4	2164.2	2365.0	2575.3	2798.8	3055.7	3215.9	3410.6
12.5°	1558.3	1624.0	1723.2	1866.7	1975.4	2105.6	2262.2	2544.2	2912.3	3064.0	3197.9
15°	1332.4	1405.3	1520.0	1679.0	1809.3	1964.6	2140.3	2447.4	2839.4	3073.6	3187.1
17.5°	1146.0	1198.6	1319.3	1456.8	1606.1	1775.8	2028.0	2442.6	2915.9	3215.9	3401.0
20°	1017.0	1024.2	1089.9	1207.0	1410.1	1631.2	1958.7	2418.8	3160.8	3460.8	3695.1
22.5°	935.7	928.6	929.7	1028.9	1171.1	1489.0	1849.9	2500.0	3439.3	3850.4	4008.1
25°	895.0	875.9	864.0	885.5	1014.6	1320.5	1767.5	2607.5	3739.2	4171.8	4365.5
27.5°	873.6	840.1	816.2	819.8	914.2	1235.7	1716.0	2654.1	4036.8	4620.0	4688.1
30°	865.2	823.4	788.7	776.7	838.9	1117.3	1606.1	2734.2	4303.3	4866.2	4924.7
32.5°	835.3	783.9	750.5	739.7	764.8	1013.4	1527.2	2791.6	4538.7	5133.8	5113.5
35°	800.7	757.6	715.8	695.5	713.5	946.5	1463.9	2764.1	4816.0	5341.8	5331.1
37.5°	797.1	741.0	706.3	672.8	671.6	864.0	1377.8	2790.4	4992.8	5714.6	5567.6
40°	766.0	730.1	684.7	657.3	641.7	822.2	1294.2	2728.3	5252.1	5865.2	5720.6
42.5°	767.2	713.5	674.0	641.7	626.2	761.2	1236.8	2711.5	5343.0	6110.2	5792.3
45°	748.1	695.5	662.0	623.8	615.4	714.6	1181.9	2633.9	5503.1	6122.1	5702.7
47.5°	729.0	682.4	646.5	601.1	582.0	697.9	1138.9	2569.3	5419.5	6009.8	5578.4
50°	715.8	662.0	628.6	596.3	542.5	669.2	1082.7	2553.8	5302.3	5858.0	5347.7
52.5°	693.1	645.3	610.7	585.5	499.6	642.9	1061.2	2644.6	5445.8	5744.5	5280.9
55°	671.6	622.6	578.4	529.4	463.7	573.6	1001.5	2729.5	5654.9	6006.2	5584.4
57.5°	648.9	602.3	554.5	496.0	429.0	501.9	939.3	2745.0	5262.9	5550.9	5301.1
60°	619.0	559.3	523.4	446.9	392.0	415.9	744.5	2419.9	4082.2	4635.5	4643.9
62.5°	585.5	521.0	489.9	400.3	353.8	358.5	607.1	2033.9	3311.4	3837.2	4065.5
65°	541.4	479.2	442.2	370.4	326.3	310.7	444.6	1490.2	2515.5	3113.1	3372.4
67.5°	484.0	425.4	378.8	322.7	291.6	266.5	303.6	838.9	1485.4	2090.1	2169.0
70°	423.1	372.9	323.8	277.3	242.6	224.6	222.3	371.7	709.9	1124.5	1279.9
72.5°	333.4	297.5	258.2	223.5	200.8	174.5	158.9	154.2	240.2	457.7	632.2
75°	239.0	209.1	186.4	163.7	147.0	132.6	120.7	109.9	100.4	114.7	157.8
77.5°	150.6	139.8	121.9	115.9	106.3	102.8	98.0	92.0	84.9	80.1	80.1
80°	101.6	94.4	88.4	87.2	83.6	82.4	83.6	77.7	70.5	64.5	66.9
82.5°	68.1	66.9	65.7	64.5	65.7	66.9	69.3	68.1	62.2	58.6	59.7
85°	40.6	43.0	45.4	47.8	52.6	46.6	38.2	32.3	28.7	26.3	25.1
87.5°	15.5	21.5	19.1	17.9	19.1	17.9	16.8	15.5	13.2	12.0	12.0
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: P646789

CATALOG NUMBER: GALN-SA2C-835-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2
2.5°	3956.7	3980.6	4001.0	3996.2	3954.4	3898.2	3875.5	3759.6	3735.7	3720.1
5°	4010.5	4149.1	4179.0	4161.1	4052.3	3914.9	3781.1	3611.4	3512.2	3508.6
7.5°	3911.3	4082.2	4136.0	4176.6	4032.1	3793.0	3563.6	3309.0	3246.9	3251.6
10°	3659.2	3931.7	4064.3	4106.1	3940.0	3733.3	3415.4	3157.3	3024.7	3022.2
12.5°	3519.4	3733.3	3770.3	3828.9	3779.9	3570.7	3329.3	3040.2	2911.1	2908.7
15°	3395.1	3536.1	3546.8	3629.3	3655.6	3514.6	3352.0	3043.8	2939.8	2929.0
17.5°	3503.8	3405.8	3365.2	3376.0	3453.7	3505.0	3483.5	3246.9	3140.5	3080.8
20°	3576.7	3358.1	3235.0	3246.9	3338.9	3526.6	3679.5	3540.9	3372.4	3379.5
22.5°	3771.5	3365.2	3172.8	3159.6	3305.4	3638.8	3900.6	3912.5	3750.0	3710.6
25°	4063.1	3447.6	3153.7	3150.1	3289.9	3759.6	4158.7	4352.3	4186.2	4113.3
27.5°	4297.3	3576.7	3213.4	3225.4	3338.9	3857.5	4378.6	4635.5	4508.8	4419.3
30°	4502.9	3710.6	3297.1	3242.1	3470.3	3909.0	4473.0	4958.2	4856.6	4782.5
32.5°	4587.7	3900.6	3429.7	3338.9	3579.1	3971.1	4669.0	5271.2	5184.0	5001.2
35°	4731.1	4006.9	3501.4	3494.3	3769.1	4120.5	4761.0	5478.0	5442.2	5279.6
37.5°	4845.8	4114.5	3756.0	3677.1	4029.6	4371.4	4909.2	5763.6	5681.1	5604.7
40°	4934.3	4306.9	3993.8	4097.8	4349.9	4599.7	5045.4	5781.5	6019.4	5797.1
42.5°	4853.0	4479.0	4384.6	4633.1	4872.1	4860.2	5060.9	5920.2	6098.2	5982.3
45°	4832.7	4770.6	5002.4	5228.2	5283.2	5076.5	4949.8	5767.2	6074.4	6022.9
47.5°	4783.7	5057.4	5461.3	5829.4	5745.7	5221.0	4817.2	5739.7	6088.7	5996.7
50°	4767.0	5119.5	5800.7	6159.2	6109.0	5346.6	4755.0	5562.8	5987.1	5978.8
52.5°	4765.8	5247.4	5941.7	6338.5	6369.5	5545.0	4839.9	5652.5	6066.0	6136.4
55°	4819.5	5206.7	5923.8	6239.3	6227.3	5456.5	4849.4	5712.2	6162.8	6232.1
57.5°	4545.9	4664.2	4888.9	5138.6	5074.1	4519.6	4330.8	5280.9	5656.1	5605.9
60°	3925.6	3555.2	3301.8	3289.9	3164.4	2991.1	3544.5	4713.2	4713.2	4664.2
62.5°	3438.1	2333.9	2005.3	1912.0	2001.7	2201.2	3419.0	4584.2	4453.9	4397.7
65°	3006.7	1781.8	1449.6	1423.3	1578.6	1879.7	3091.5	3905.4	3675.9	3489.5
67.5°	1934.7	1304.9	1077.9	1031.3	1218.9	1380.3	2057.8	2402.0	2257.4	2184.5
70°	1247.6	849.6	599.9	562.8	635.7	850.9	1314.5	1400.6	1190.2	1141.2
72.5°	590.4	366.8	210.3	173.3	194.8	325.0	519.8	559.3	464.9	425.4
75°	187.6	135.1	86.1	74.1	70.5	83.6	119.5	92.0	66.9	65.7
77.5°	83.6	80.1	68.1	57.4	50.2	41.8	34.7	28.7	29.9	31.1
80°	69.3	63.3	56.1	50.2	41.8	32.3	25.1	19.1	19.1	20.3
82.5°	60.9	55.0	49.0	41.8	35.9	26.3	19.1	13.2	12.0	12.0
85°	26.3	31.1	33.4	35.9	28.7	21.5	13.2	8.4	7.2	7.2
87.5°	10.7	9.6	8.4	7.2	6.0	6.0	4.8	3.6	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)