

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: P527718

Luminaire Tested: **GALN-SA2D-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527718
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-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 10551 lumens
Efficiency: N/A
Efficacy: 84.4 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

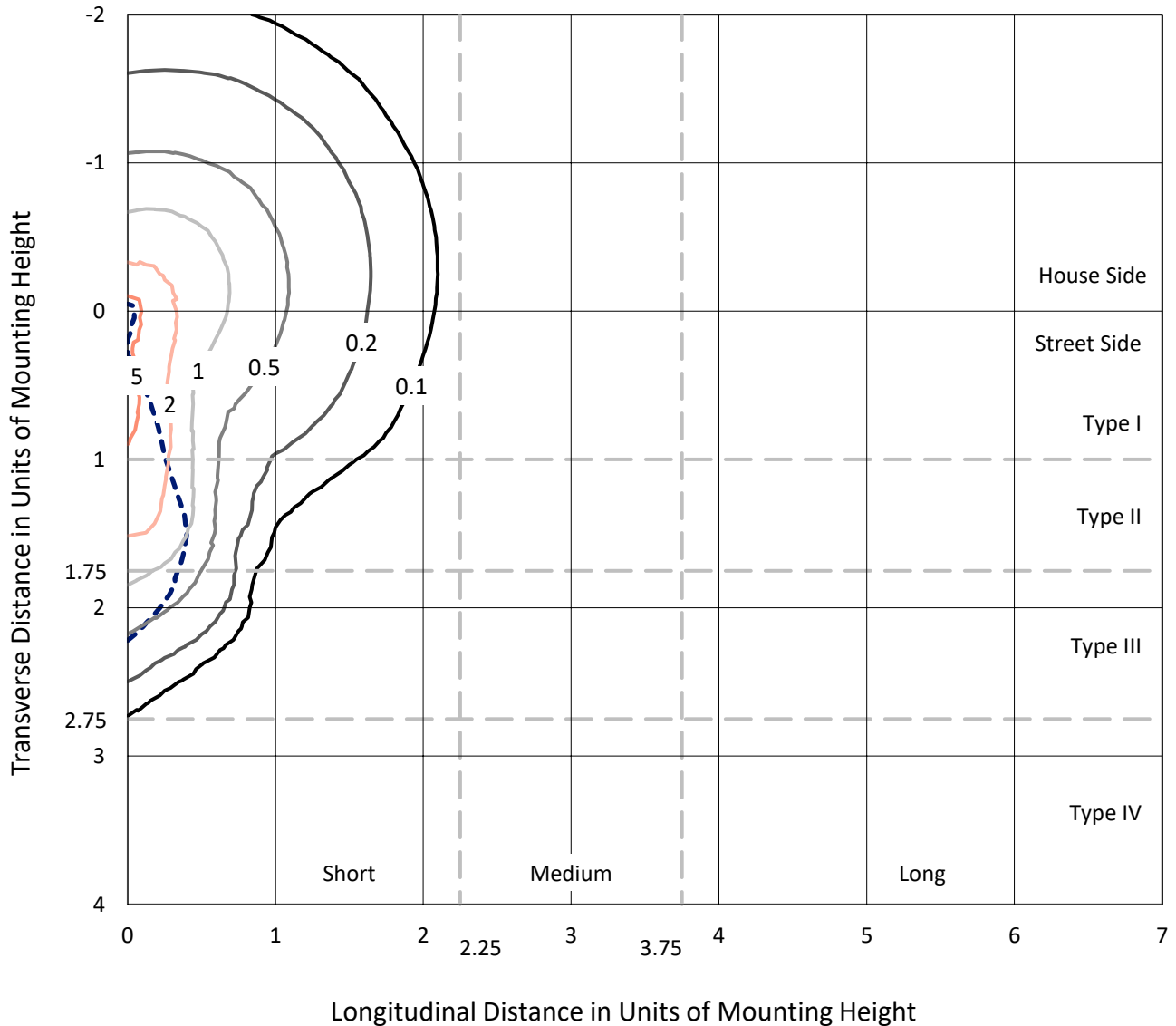




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Iso-Footcandle Lines of Horizontal Illumination

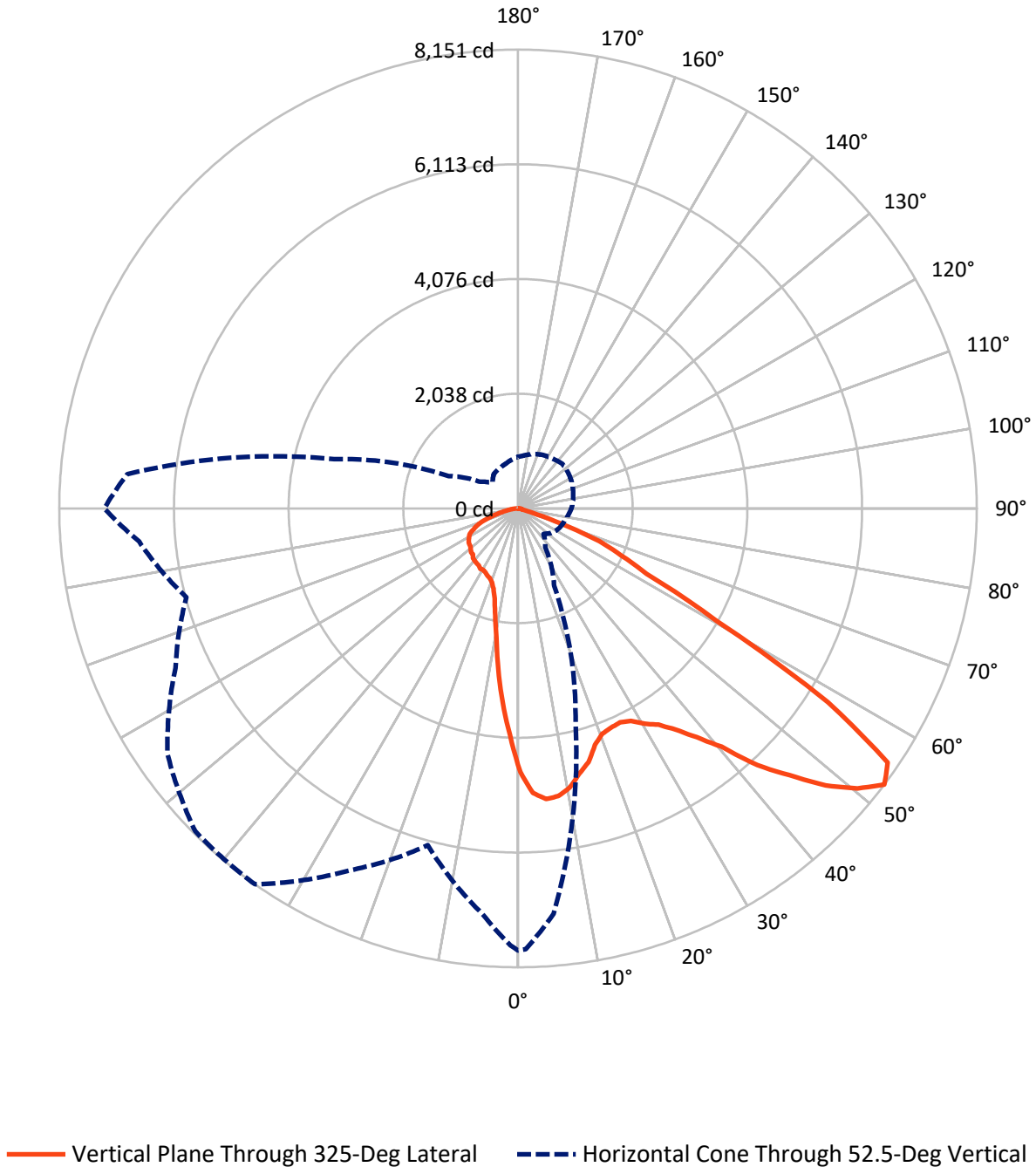
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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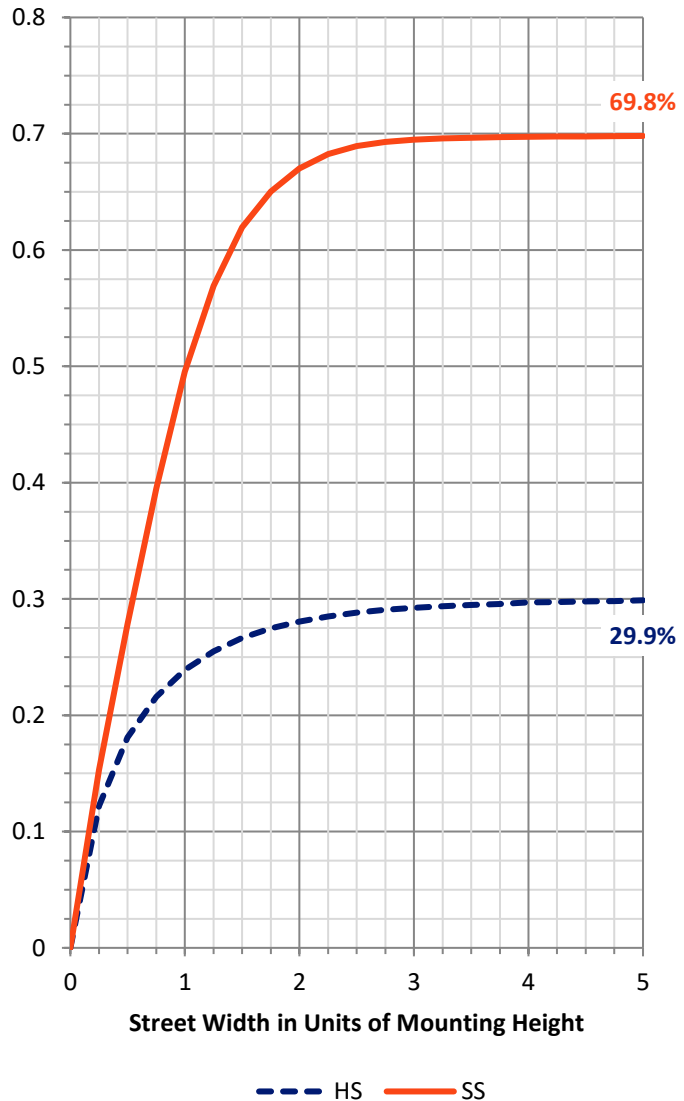
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3180.7	0.0	3180.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	7370.3	0.0	7370.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	10551.0	0.0	10551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.2	3.4
10°-20°	774.4	7.3
20°-30°	1170.1	11.1
30°-40°	1690.9	16.0
40°-50°	2250.3	21.3
50°-60°	2517.0	23.9
60°-70°	1418.6	13.4
70°-80°	316.2	3.0
80°-90°	56.3	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°	10551.0	100.0
0°-180°	10551.0	100.0

Coefficient of Utilization



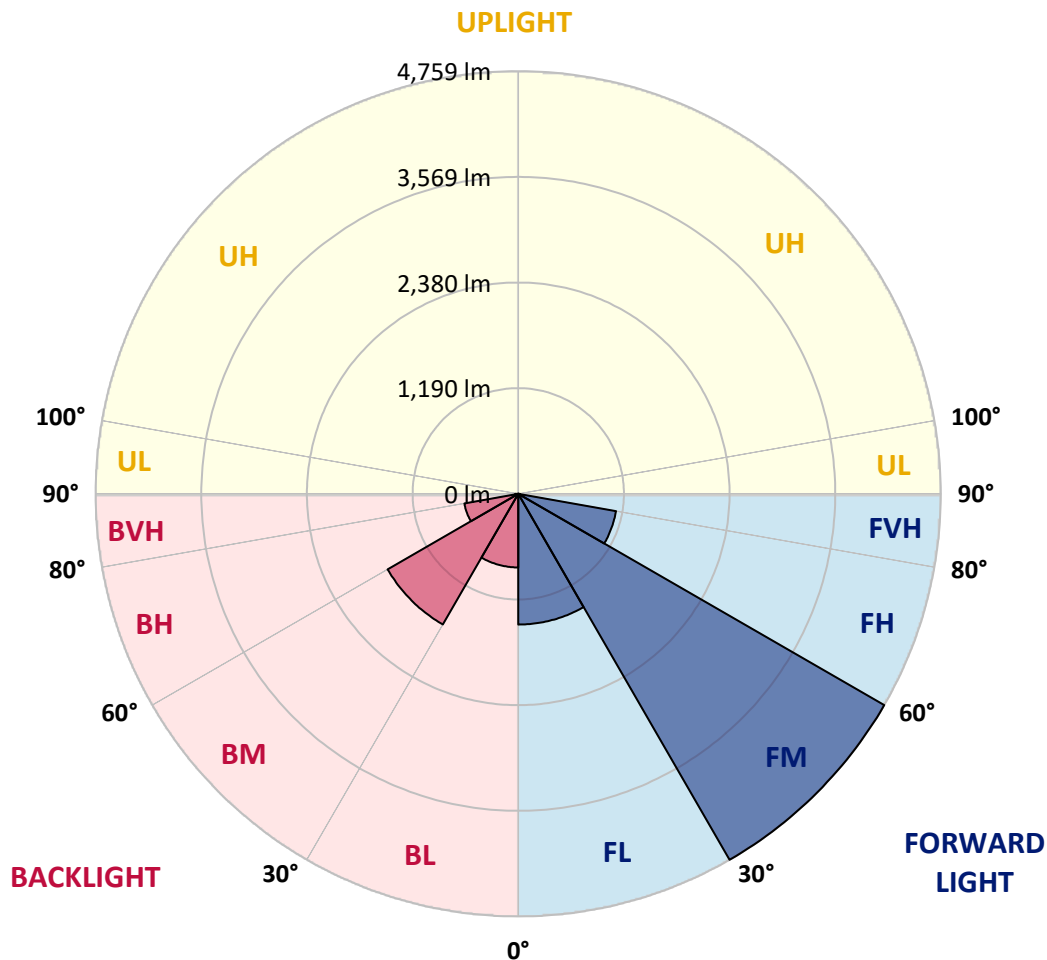
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1472.4	14.0			
FM (30°-60°)	4759.3	45.1			
FH (60°-80°)	1118.2	10.6			G1/1800
FVH (80°-90°)	20.4	0.2			G1/100
BL (0°-30°)	829.4	7.9	B2/1000		
BM (30°-60°)	1698.8	16.1	B2/2500		
BH (60°-80°)	616.5	5.8	B2/1000		G2/1000
BVH (80°-90°)	35.9	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°	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6
2.5°	4760.6	4837.1	4754.5	4607.7	4503.7	4408.9	4309.5	4289.6	4159.6	4136.7	4041.8
5°	4489.9	4473.1	4372.2	4179.5	3966.9	3774.2	3632.0	3494.4	3401.1	3292.5	3284.9
7.5°	4161.1	4063.2	4005.1	3713.0	3450.0	3147.2	3017.2	2807.7	2742.0	2644.1	2593.6
10°	3867.5	3795.6	3659.5	3367.4	3000.4	2800.1	2660.9	2547.7	2471.3	2370.4	2243.4
12.5°	3722.2	3693.2	3540.2	3087.6	2815.4	2601.3	2503.4	2393.3	2263.3	2101.2	2038.5
15°	3748.2	3650.3	3534.1	3034.1	2657.9	2451.4	2295.4	2157.8	1991.1	1836.6	1746.4
17.5°	3942.4	3867.5	3635.1	3067.7	2598.2	2300.0	2017.1	1813.7	1663.8	1524.7	1462.0
20°	4324.8	4216.2	3954.7	3110.5	2469.8	2089.0	1764.8	1514.0	1353.4	1280.0	1258.6
22.5°	4748.4	4684.1	4266.6	3206.9	2367.3	1893.2	1497.1	1246.3	1186.7	1166.8	1206.6
25°	5263.7	5097.0	4751.4	3364.4	2287.8	1726.5	1270.8	1131.7	1101.1	1120.9	1166.8
27.5°	5655.2	5610.9	5090.9	3512.7	2179.2	1526.2	1143.9	1052.1	1061.3	1081.2	1124.0
30°	6120.1	5895.3	5419.7	3615.2	2081.3	1388.6	1055.2	1030.7	1039.9	1073.5	1095.0
32.5°	6400.0	6315.8	5626.2	3769.6	1968.2	1269.3	986.4	963.4	977.2	1027.7	1078.1
35°	6756.3	6589.6	5881.5	3809.4	1888.6	1221.9	937.4	920.6	952.7	987.9	1044.5
37.5°	7172.2	7057.5	6234.8	3781.9	1845.8	1172.9	896.1	888.5	911.4	960.4	1026.1
40°	7418.4	7383.3	6419.8	3798.7	1778.5	1130.1	848.7	857.9	905.3	943.6	1007.8
42.5°	7655.5	7426.1	6693.6	3792.6	1735.7	1072.0	853.3	842.6	879.3	923.7	984.8
45°	7707.5	7479.6	6757.8	3749.7	1683.7	1015.4	818.2	822.7	867.1	922.1	961.9
47.5°	7673.8	7505.6	6877.1	3737.5	1634.8	975.7	766.2	821.2	847.2	891.6	948.1
50°	7650.9	7641.7	6978.0	3795.6	1569.0	913.0	703.5	801.3	827.3	871.7	932.8
52.5°	7852.8	7832.9	7230.3	3948.6	1517.0	845.7	639.2	750.9	813.6	856.4	916.0
55°	7975.1	7887.9	7663.1	4136.7	1429.9	757.0	594.9	688.2	779.9	818.2	879.3
57.5°	7173.8	7114.1	6932.1	3861.4	1283.1	640.8	539.8	623.9	734.0	793.7	856.4
60°	5968.7	5875.4	5409.0	3281.8	946.6	498.5	506.2	573.5	721.8	744.8	818.2
62.5°	5627.7	5396.8	4762.1	2641.0	726.4	428.2	454.2	527.6	657.6	695.8	769.2
65°	4465.4	4294.2	3407.2	1907.0	486.3	371.6	414.4	475.6	567.4	642.3	709.6
67.5°	2795.5	2631.9	1818.3	902.3	339.5	318.1	370.1	434.3	509.2	576.5	651.5
70°	1460.4	1281.5	839.6	325.7	234.0	260.0	308.9	370.1	443.5	498.5	556.7
72.5°	544.4	442.0	273.7	140.7	162.1	198.8	250.8	295.1	347.1	414.4	446.5
75°	84.1	71.9	70.3	85.6	110.1	143.8	178.9	223.3	269.2	312.0	333.4
77.5°	39.8	38.2	42.8	56.6	73.4	102.5	130.0	172.8	209.5	237.0	249.3
80°	26.0	24.5	27.5	38.2	55.1	76.5	104.0	133.0	166.7	189.6	186.6
82.5°	15.3	16.8	16.8	26.0	38.2	55.1	74.9	100.9	123.9	143.8	131.5
85°	9.2	7.6	7.6	15.3	26.0	44.3	62.7	42.8	44.3	44.3	50.5
87.5°	3.1	3.1	3.1	1.5	3.1	3.1	4.6	7.6	9.2	10.7	13.8
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°	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6
2.5°	4038.8	4086.2	4069.4	4009.7	4055.6	4063.2	4032.7	4138.2	4158.1	4125.9	4135.1
5°	3274.1	3286.4	3313.9	3372.0	3413.3	3462.2	3462.2	3465.3	3424.0	3528.0	3497.4
7.5°	2550.8	2558.5	2590.6	2714.4	2749.6	2842.9	2882.7	2855.1	2772.6	2737.4	2766.4
10°	2202.1	2157.8	2147.1	2162.4	2241.9	2281.7	2315.3	2306.1	2292.4	2264.8	2234.3
12.5°	1969.7	1937.6	1911.6	1874.9	1879.5	1917.7	1943.7	1922.3	1928.4	1934.5	1943.7
15°	1717.4	1694.4	1680.7	1625.6	1619.5	1645.5	1654.7	1666.9	1689.8	1691.4	1680.7
17.5°	1449.7	1429.9	1460.4	1491.0	1469.6	1471.1	1488.0	1498.7	1492.6	1465.0	1451.3
20°	1266.2	1287.6	1318.2	1347.3	1370.2	1384.0	1390.1	1373.3	1353.4	1296.8	1295.3
22.5°	1212.7	1240.2	1266.2	1310.6	1332.0	1367.2	1335.0	1296.8	1269.3	1241.8	1209.6
25°	1172.9	1195.9	1247.9	1264.7	1306.0	1335.0	1312.1	1273.9	1226.5	1186.7	1162.2
27.5°	1143.9	1169.9	1203.5	1249.4	1281.5	1298.3	1275.4	1260.1	1211.2	1163.8	1128.6
30°	1125.5	1153.1	1214.2	1252.5	1280.0	1293.8	1254.0	1235.6	1200.5	1160.7	1130.1
32.5°	1113.3	1137.8	1189.8	1238.7	1257.1	1257.1	1263.2	1241.8	1192.8	1125.5	1099.5
35°	1073.5	1107.2	1150.0	1206.6	1240.2	1260.1	1229.5	1205.1	1172.9	1104.1	1056.7
37.5°	1050.6	1073.5	1128.6	1182.1	1211.2	1232.6	1220.4	1177.5	1134.7	1078.1	1039.9
40°	1026.1	1062.8	1111.8	1162.2	1194.4	1215.8	1206.6	1156.1	1104.1	1050.6	1024.6
42.5°	1009.3	1033.8	1084.2	1140.8	1179.1	1220.4	1192.8	1130.1	1093.4	1020.0	991.0
45°	995.5	1035.3	1088.8	1111.8	1151.5	1194.4	1145.4	1107.2	1064.4	1010.8	986.4
47.5°	978.7	1015.4	1050.6	1111.8	1130.1	1150.0	1140.8	1079.7	1043.0	984.8	968.0
50°	972.6	986.4	1050.6	1084.2	1110.2	1130.1	1105.7	1059.8	1024.6	965.0	928.3
52.5°	948.1	974.1	1015.4	1059.8	1091.9	1116.4	1076.6	1047.5	1000.1	937.4	914.5
55°	917.6	932.8	1006.3	1052.1	1069.0	1085.8	1070.5	1023.1	974.1	909.9	887.0
57.5°	877.8	913.0	972.6	1036.8	1058.2	1067.4	1043.0	1004.7	943.6	887.0	850.3
60°	836.5	873.2	939.0	991.0	1012.4	1046.0	1009.3	986.4	916.0	853.3	813.6
62.5°	795.2	836.5	885.4	951.2	969.6	983.3	974.1	942.0	885.4	815.1	766.2
65°	746.3	776.9	838.0	871.7	883.9	916.0	883.9	871.7	821.2	753.9	712.6
67.5°	672.9	698.9	752.4	784.5	793.7	807.5	805.9	792.2	735.6	689.7	653.0
70°	588.8	611.7	645.3	683.6	688.2	705.0	689.7	686.6	649.9	587.2	567.4
72.5°	472.5	494.0	538.3	555.1	556.7	562.8	555.1	544.4	535.2	469.5	449.6
75°	362.4	374.7	396.1	411.4	411.4	419.0	414.4	403.7	379.3	338.0	318.1
77.5°	252.3	264.6	292.1	301.3	299.7	302.8	289.0	278.3	241.6	220.2	203.4
80°	183.5	191.2	204.9	211.0	212.6	217.2	200.3	191.2	169.7	145.3	137.6
82.5°	133.0	137.6	139.2	146.8	146.8	139.2	134.6	125.4	110.1	94.8	88.7
85°	55.1	56.6	58.1	67.3	68.8	82.6	76.5	71.9	62.7	53.5	48.9
87.5°	13.8	15.3	19.9	16.8	19.9	19.9	21.4	24.5	24.5	19.9	19.9
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°	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6
2.5°	4170.3	4182.5	4338.5	4358.4	4434.9	4512.9	4670.4	4783.5	4875.3	4934.9	4951.7
5°	3529.5	3607.5	3679.4	3795.6	3901.1	4051.0	4223.8	4437.9	4707.1	4844.7	4899.8
7.5°	2763.4	2855.1	2959.1	3072.3	3226.7	3495.9	3726.8	3974.6	4318.6	4460.9	4676.5
10°	2255.7	2358.1	2495.8	2582.9	2769.5	3026.4	3295.6	3581.5	3910.3	4115.2	4364.5
12.5°	1994.2	2078.3	2205.2	2388.7	2527.9	2694.6	2894.9	3255.8	3726.8	3921.0	4092.3
15°	1705.1	1798.4	1945.2	2148.6	2315.3	2514.1	2738.9	3131.9	3633.5	3933.3	4078.5
17.5°	1466.6	1533.8	1688.3	1864.2	2055.3	2272.5	2595.2	3125.8	3731.4	4115.2	4352.3
20°	1301.4	1310.6	1394.7	1544.6	1804.5	2087.4	2506.5	3095.2	4044.9	4428.7	4728.5
22.5°	1197.4	1188.2	1189.8	1316.7	1498.7	1905.5	2367.3	3199.2	4401.2	4927.3	5129.1
25°	1145.4	1120.9	1105.7	1133.2	1298.3	1689.8	2261.8	3336.8	4785.1	5338.7	5586.4
27.5°	1117.9	1075.1	1044.5	1049.1	1169.9	1581.3	2196.0	3396.5	5165.8	5912.1	5999.3
30°	1107.2	1053.7	1009.3	994.0	1073.5	1429.9	2055.3	3499.0	5506.9	6227.2	6302.1
32.5°	1069.0	1003.2	960.4	946.6	978.7	1296.8	1954.4	3572.4	5808.1	6569.7	6543.7
35°	1024.6	969.6	916.0	890.0	913.0	1211.2	1873.3	3537.2	6162.9	6835.8	6822.0
37.5°	1020.0	948.1	903.8	861.0	859.4	1105.7	1763.2	3570.8	6389.3	7312.9	7124.8
40°	980.3	934.4	876.3	841.1	821.2	1052.1	1656.2	3491.3	6721.1	7505.6	7320.6
42.5°	981.8	913.0	862.5	821.2	801.3	974.1	1582.8	3469.9	6837.3	7819.1	7412.3
45°	957.3	890.0	847.2	798.3	787.6	914.5	1512.4	3370.5	7042.2	7834.4	7297.6
47.5°	932.8	873.2	827.3	769.2	744.8	893.1	1457.4	3287.9	6935.2	7690.7	7138.6
50°	916.0	847.2	804.4	763.1	694.3	856.4	1385.5	3268.0	6785.3	7496.4	6843.4
52.5°	887.0	825.8	781.5	749.3	639.2	822.7	1358.0	3384.3	6968.8	7351.2	6757.8
55°	859.4	796.7	740.2	677.5	593.4	734.0	1281.5	3492.8	7236.5	7686.1	7146.2
57.5°	830.4	770.7	709.6	634.6	549.0	642.3	1202.0	3512.7	6734.9	7103.4	6783.8
60°	792.2	715.7	669.8	571.9	501.6	532.2	952.7	3096.8	5224.0	5932.0	5942.7
62.5°	749.3	666.8	627.0	512.3	452.7	458.8	776.9	2602.8	4237.6	4910.5	5202.5
65°	692.8	613.2	565.8	474.1	417.5	397.6	568.9	1907.0	3219.1	3983.7	4315.6
67.5°	619.4	544.4	484.8	412.9	373.1	341.0	388.4	1073.5	1900.9	2674.7	2775.6
70°	541.4	477.1	414.4	354.8	310.4	287.5	284.4	475.6	908.4	1439.0	1637.8
72.5°	426.7	380.8	330.3	286.0	256.9	223.3	203.4	197.3	307.4	585.7	809.0
75°	305.9	267.6	238.6	209.5	188.1	169.7	154.5	140.7	128.5	146.8	201.9
77.5°	192.7	178.9	156.0	148.3	136.1	131.5	125.4	117.8	108.6	102.5	102.5
80°	130.0	120.8	113.2	111.6	107.0	105.5	107.0	99.4	90.2	82.6	85.6
82.5°	87.2	85.6	84.1	82.6	84.1	85.6	88.7	87.2	79.5	74.9	76.5
85°	52.0	55.1	58.1	61.2	67.3	59.6	48.9	41.3	36.7	33.6	32.1
87.5°	19.9	27.5	24.5	22.9	24.5	22.9	21.4	19.9	16.8	15.3	15.3
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: P527718

CATALOG NUMBER: GALN-SA2D-730-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6	4682.6
2.5°	5063.4	5094.0	5120.0	5113.9	5060.3	4988.5	4959.4	4811.1	4780.5	4760.6
5°	5132.2	5309.6	5347.8	5324.9	5185.7	5009.9	4838.6	4621.4	4494.5	4489.9
7.5°	5005.3	5224.0	5292.8	5344.8	5159.7	4853.9	4560.3	4234.5	4155.0	4161.1
10°	4682.6	5031.3	5201.0	5254.5	5042.0	4777.4	4370.6	4040.3	3870.6	3867.5
12.5°	4503.7	4777.4	4824.8	4899.8	4837.1	4569.4	4260.5	3890.4	3725.3	3722.2
15°	4344.6	4525.1	4538.8	4644.4	4678.0	4497.6	4289.6	3895.0	3762.0	3748.2
17.5°	4483.8	4358.4	4306.4	4320.2	4419.6	4485.3	4457.8	4155.0	4018.9	3942.4
20°	4577.1	4297.2	4139.7	4155.0	4272.8	4512.9	4708.6	4531.2	4315.6	4324.8
22.5°	4826.3	4306.4	4060.2	4043.4	4229.9	4656.6	4991.5	5006.8	4798.8	4748.4
25°	5199.5	4411.9	4035.7	4031.1	4210.1	4811.1	5321.8	5569.6	5357.0	5263.7
27.5°	5499.2	4577.1	4112.2	4127.5	4272.8	4936.5	5603.2	5932.0	5769.9	5655.2
30°	5762.3	4748.4	4219.2	4148.9	4441.0	5002.2	5724.0	6344.9	6214.9	6120.1
32.5°	5870.8	4991.5	4389.0	4272.8	4580.1	5081.7	5974.8	6745.6	6633.9	6400.0
35°	6054.3	5127.6	4480.7	4471.6	4823.3	5272.9	6092.6	7010.1	6964.3	6756.3
37.5°	6201.2	5265.2	4806.5	4705.5	5156.7	5594.0	6282.2	7375.6	7270.1	7172.2
40°	6314.3	5511.5	5110.8	5243.8	5566.5	5886.1	6456.5	7398.6	7702.9	7418.4
42.5°	6210.3	5731.7	5610.9	5928.9	6234.8	6219.5	6476.4	7576.0	7803.8	7655.5
45°	6184.3	6104.8	6401.5	6690.5	6760.9	6496.3	6334.2	7380.2	7773.2	7707.5
47.5°	6121.6	6471.8	6988.7	7459.7	7352.7	6681.3	6164.5	7345.0	7791.6	7673.8
50°	6100.2	6551.4	7423.0	7881.8	7817.6	6841.9	6084.9	7118.7	7661.6	7650.9
52.5°	6098.7	6715.0	7603.5	8111.2	8151.0	7095.8	6193.5	7233.4	7762.5	7852.8
55°	6167.5	6663.0	7580.5	7984.3	7969.0	6982.6	6205.7	7309.9	7886.4	7975.1
57.5°	5817.3	5968.7	6256.2	6575.8	6493.2	5783.7	5542.0	6757.8	7238.0	7173.8
60°	5023.6	4549.6	4225.3	4210.1	4049.5	3827.7	4535.8	6031.4	6031.4	5968.7
62.5°	4399.7	2986.6	2566.1	2446.8	2561.5	2816.9	4375.2	5866.2	5699.6	5627.7
65°	3847.6	2280.1	1855.0	1821.4	2020.2	2405.5	3956.2	4997.6	4704.0	4465.4
67.5°	2475.9	1670.0	1379.4	1319.8	1559.8	1766.3	2633.4	3073.8	2888.8	2795.5
70°	1596.5	1087.3	767.7	720.3	813.6	1088.8	1682.2	1792.3	1523.1	1460.4
72.5°	755.5	469.5	269.2	221.7	249.3	416.0	665.2	715.7	594.9	544.4
75°	240.1	172.8	110.1	94.8	90.2	107.0	152.9	117.8	85.6	84.1
77.5°	107.0	102.5	87.2	73.4	64.2	53.5	44.3	36.7	38.2	39.8
80°	88.7	81.1	71.9	64.2	53.5	41.3	32.1	24.5	24.5	26.0
82.5°	78.0	70.3	62.7	53.5	45.9	33.6	24.5	16.8	15.3	15.3
85°	33.6	39.8	42.8	45.9	36.7	27.5	16.8	10.7	9.2	9.2
87.5°	13.8	12.2	10.7	9.2	7.6	7.6	6.1	4.6	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)