

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: P528888

Luminaire Tested: **GALN-SA4A-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528888
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-SA4A-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 12271 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 121
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

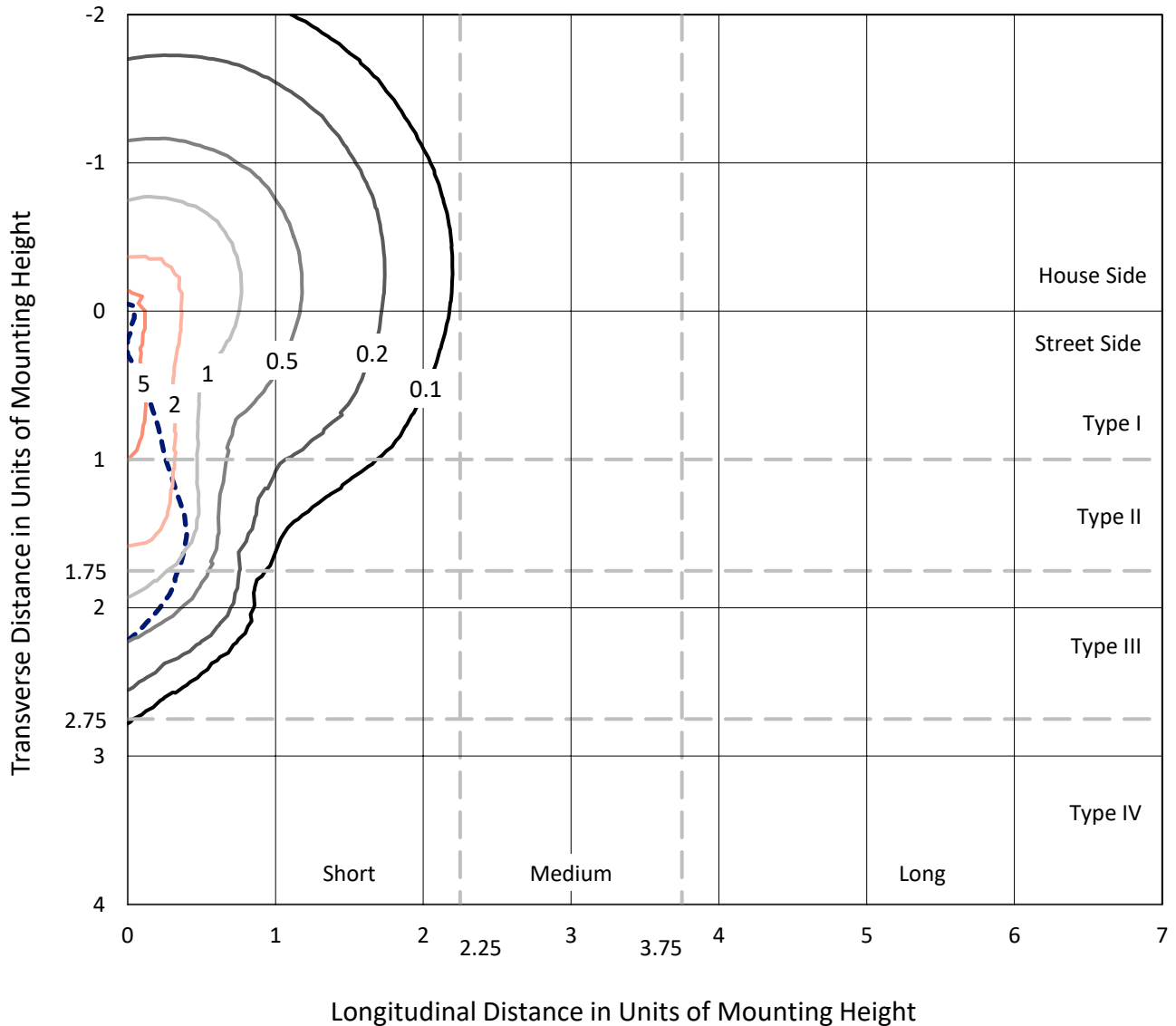




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Iso-Footcandle Lines of Horizontal Illumination

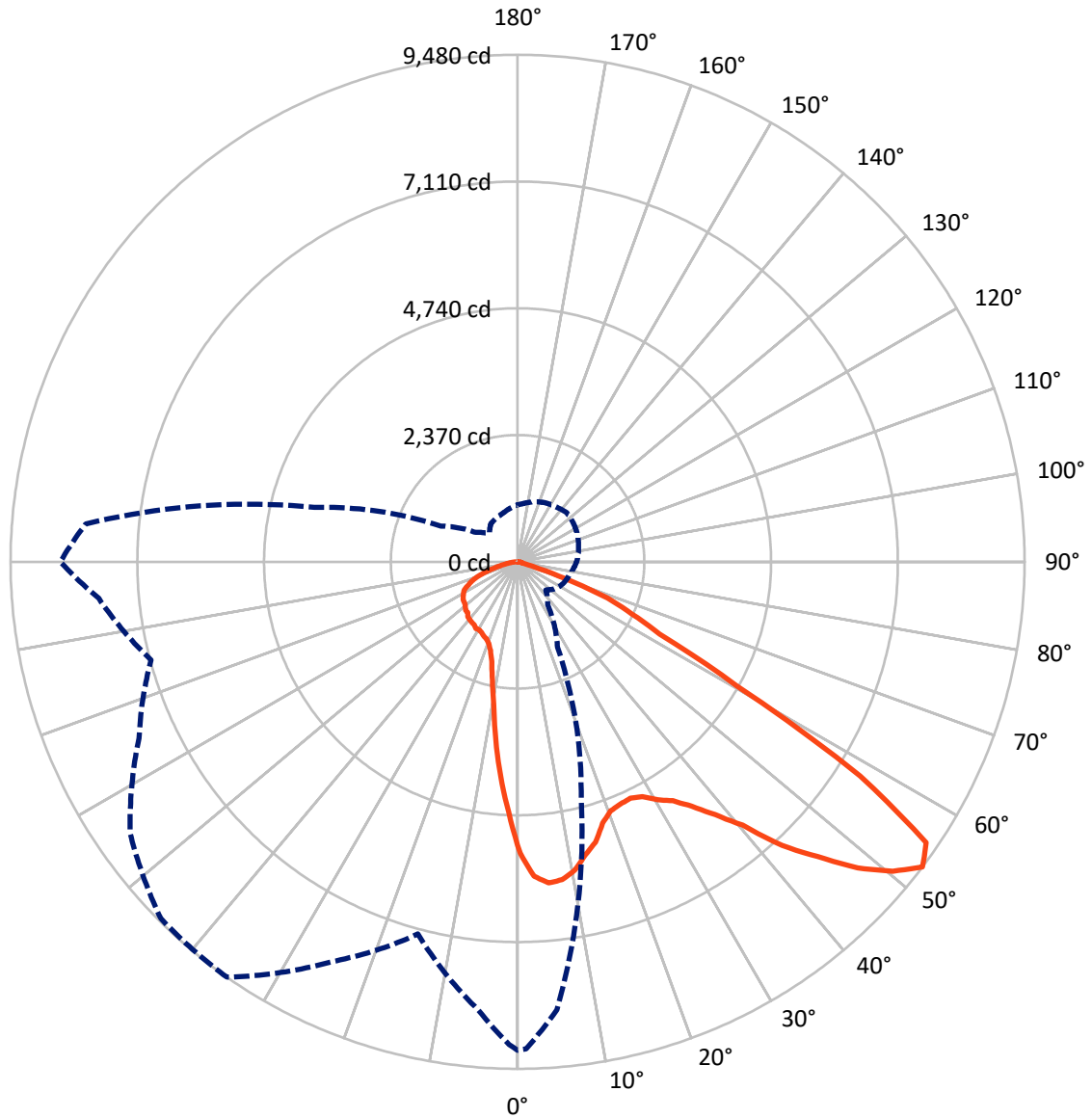
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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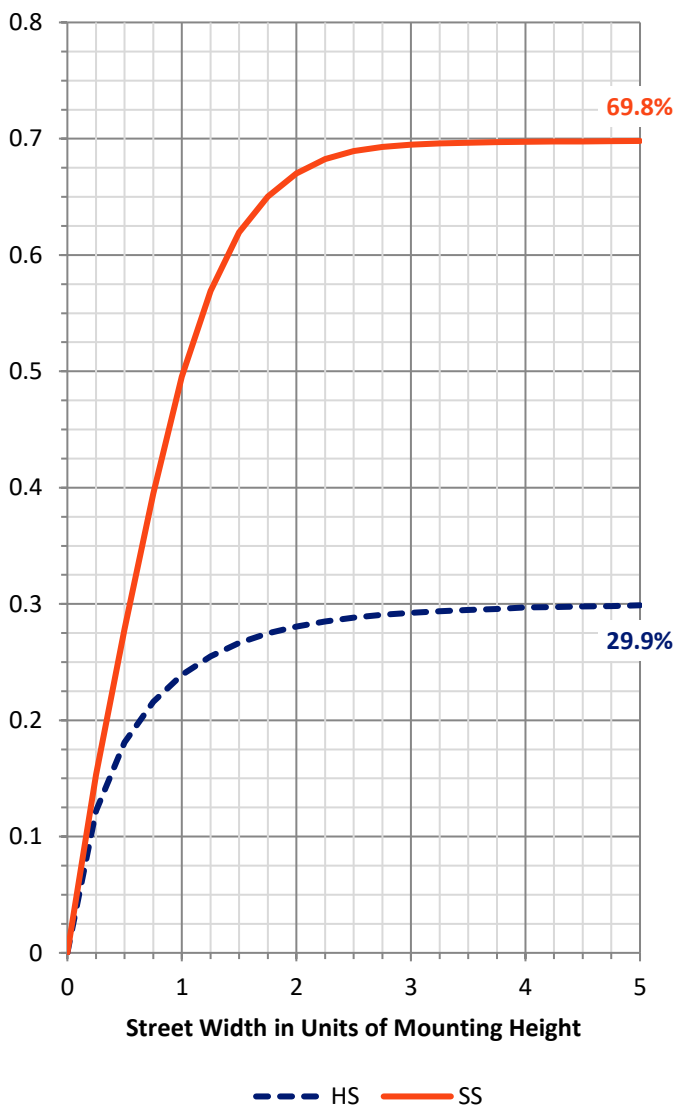
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3699.2	0.0	3699.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	8571.8	0.0	8571.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	12271.0	0.0	12271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.5	3.4
10°-20°	900.7	7.3
20°-30°	1360.9	11.1
30°-40°	1966.5	16.0
40°-50°	2617.1	21.3
50°-60°	2927.3	23.9
60°-70°	1649.8	13.4
70°-80°	367.8	3.0
80°-90°	65.5	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°	12271.0	100.0
0°-180°	12271.0	100.0

Coefficient of Utilization

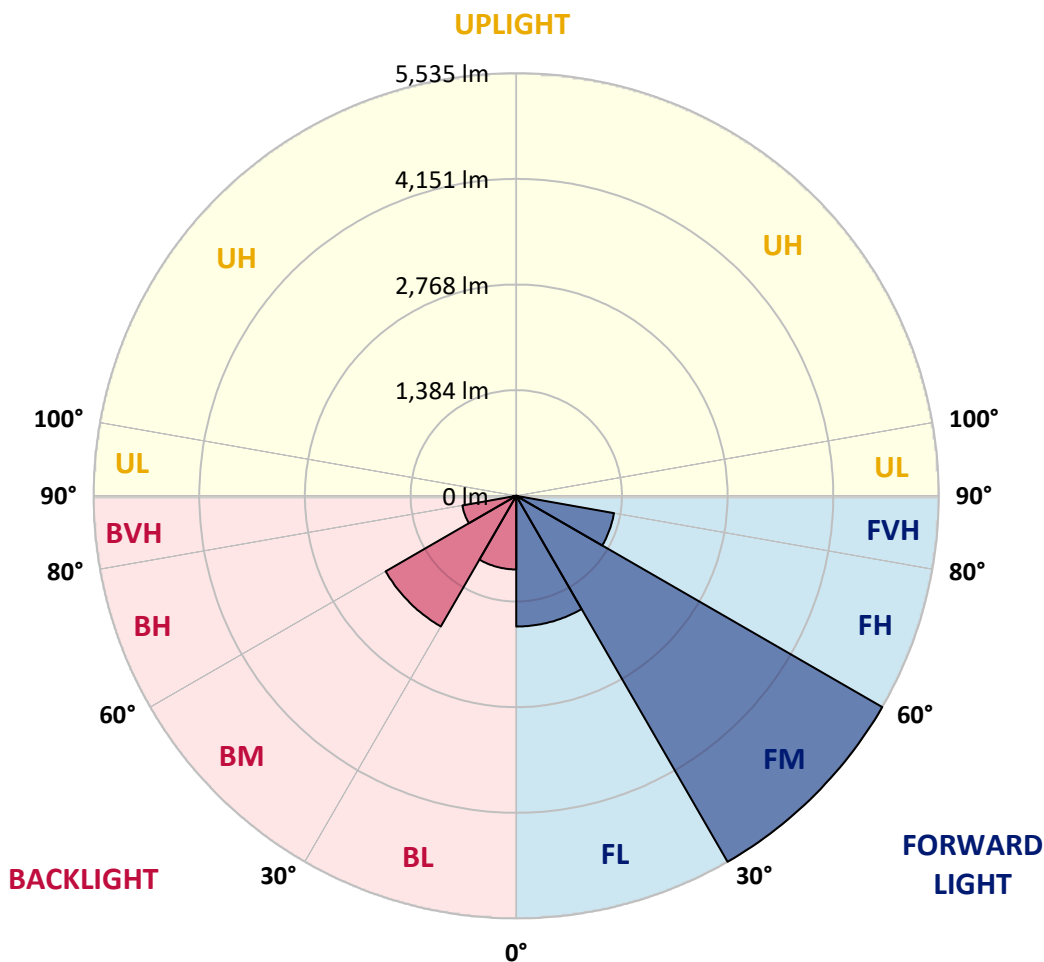


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1712.4	14.0			
FM (30°-60°)	5535.2	45.1			
FH (60°-80°)	1300.5	10.6			G1/1800
FVH (80°-90°)	23.7	0.2			G1/100
BL (0°-30°)	964.7	7.9	B2/1000		
BM (30°-60°)	1975.7	16.1	B2/2500		
BH (60°-80°)	717.0	5.8	B2/1000		G2/1000
BVH (80°-90°)	41.8	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°	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9
2.5°	5536.7	5625.6	5529.5	5358.8	5237.9	5127.6	5012.0	4988.9	4837.7	4811.0	4700.7
5°	5221.8	5202.3	5084.9	4860.8	4613.6	4389.5	4224.1	4064.0	3955.5	3829.2	3820.3
7.5°	4839.5	4725.6	4658.0	4318.3	4012.4	3660.3	3509.1	3265.4	3189.0	3075.1	3016.4
10°	4498.0	4414.4	4256.1	3916.4	3489.5	3256.5	3094.7	2963.1	2874.2	2756.8	2609.1
12.5°	4329.0	4295.2	4117.4	3590.9	3274.3	3025.3	2911.5	2783.4	2632.3	2443.7	2370.8
15°	4359.2	4245.4	4110.2	3528.7	3091.1	2851.0	2669.6	2509.5	2315.7	2136.0	2031.1
17.5°	4585.1	4498.0	4227.6	3567.8	3021.8	2675.0	2345.9	2109.4	1935.1	1773.2	1700.3
20°	5029.8	4903.5	4599.4	3617.6	2872.4	2429.5	2052.5	1760.8	1574.0	1488.7	1463.8
22.5°	5522.4	5447.7	4962.2	3729.6	2753.2	2201.9	1741.2	1449.5	1380.2	1357.0	1403.3
25°	6121.8	5927.9	5526.0	3912.8	2660.7	2008.0	1478.0	1316.1	1280.6	1303.7	1357.0
27.5°	6577.1	6525.5	5920.8	4085.3	2534.4	1775.0	1330.4	1223.6	1234.3	1257.4	1307.2
30°	7117.8	6856.3	6303.2	4204.5	2420.6	1614.9	1227.2	1198.7	1209.4	1248.5	1273.4
32.5°	7443.3	7345.4	6543.3	4384.1	2289.0	1476.2	1147.2	1120.5	1136.5	1195.2	1253.9
35°	7857.7	7663.8	6840.3	4430.4	2196.5	1421.1	1090.3	1070.7	1108.0	1148.9	1214.8
37.5°	8341.4	8208.0	7251.2	4398.4	2146.7	1364.2	1042.2	1033.3	1060.0	1116.9	1193.4
40°	8627.8	8586.9	7466.4	4417.9	2068.5	1314.4	987.1	997.8	1052.9	1097.4	1172.1
42.5°	8903.5	8636.7	7784.7	4410.8	2018.7	1246.8	992.4	980.0	1022.7	1074.2	1145.4
45°	8963.9	8698.9	7859.4	4361.0	1958.2	1181.0	951.5	956.9	1008.4	1072.5	1118.7
47.5°	8924.8	8729.2	7998.2	4346.8	1901.3	1134.7	891.1	955.1	985.3	1036.9	1102.7
50°	8898.1	8887.5	8115.6	4414.4	1824.8	1061.8	818.1	932.0	962.2	1013.8	1084.9
52.5°	9132.9	9109.8	8409.0	4592.2	1764.3	983.5	743.4	873.3	946.2	996.0	1065.4
55°	9275.2	9173.8	8912.4	4811.0	1663.0	880.4	691.9	800.4	907.1	951.5	1022.7
57.5°	8343.2	8273.9	8062.2	4490.9	1492.2	745.2	627.8	725.7	853.7	923.1	996.0
60°	6941.7	6833.2	6290.8	3816.8	1100.9	579.8	588.7	667.0	839.5	866.2	951.5
62.5°	6545.1	6276.5	5538.4	3071.6	844.8	498.0	528.2	613.6	764.8	809.2	894.6
65°	5193.4	4994.2	3962.6	2217.9	565.6	432.2	482.0	553.1	659.8	747.0	825.3
67.5°	3251.2	3060.9	2114.7	1049.3	394.8	369.9	430.4	505.1	592.3	670.5	757.7
70°	1698.5	1490.4	976.4	378.8	272.1	302.4	359.3	430.4	515.8	579.8	647.4
72.5°	633.2	514.0	318.4	163.6	188.5	231.2	291.7	343.3	403.7	482.0	519.3
75°	97.8	83.6	81.8	99.6	128.1	167.2	208.1	259.7	313.0	362.8	387.7
77.5°	46.2	44.5	49.8	65.8	85.4	119.2	151.2	201.0	243.7	275.7	289.9
80°	30.2	28.5	32.0	44.5	64.0	88.9	120.9	154.7	193.9	220.5	217.0
82.5°	17.8	19.6	19.6	30.2	44.5	64.0	87.1	117.4	144.1	167.2	153.0
85°	10.7	8.9	8.9	17.8	30.2	51.6	72.9	49.8	51.6	51.6	58.7
87.5°	3.6	3.6	3.6	1.8	3.6	3.6	5.3	8.9	10.7	12.4	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9
2.5°	4697.2	4752.3	4732.7	4663.4	4716.7	4725.6	4690.1	4812.8	4835.9	4798.6	4809.2
5°	3807.9	3822.1	3854.1	3921.7	3969.7	4026.7	4026.7	4030.2	3982.2	4103.1	4067.6
7.5°	2966.6	2975.5	3012.9	3156.9	3197.8	3306.3	3352.6	3320.6	3224.5	3183.6	3217.4
10°	2561.1	2509.5	2497.1	2514.9	2607.4	2653.6	2692.7	2682.1	2666.1	2634.0	2598.5
12.5°	2290.8	2253.4	2223.2	2180.5	2185.8	2230.3	2260.5	2235.6	2242.8	2249.9	2260.5
15°	1997.3	1970.6	1954.6	1890.6	1883.5	1913.7	1924.4	1938.6	1965.3	1967.1	1954.6
17.5°	1686.1	1663.0	1698.5	1734.1	1709.2	1711.0	1730.5	1743.0	1735.9	1703.9	1687.9
20°	1472.6	1497.5	1533.1	1566.9	1593.6	1609.6	1616.7	1597.1	1574.0	1508.2	1506.4
22.5°	1410.4	1442.4	1472.6	1524.2	1549.1	1590.0	1552.7	1508.2	1476.2	1444.2	1406.8
25°	1364.2	1390.8	1451.3	1470.9	1518.9	1552.7	1526.0	1481.5	1426.4	1380.2	1351.7
27.5°	1330.4	1360.6	1399.7	1453.1	1490.4	1510.0	1483.3	1465.5	1408.6	1353.5	1312.6
30°	1309.0	1341.0	1412.2	1456.6	1488.7	1504.7	1458.4	1437.1	1396.2	1349.9	1314.4
32.5°	1294.8	1323.2	1383.7	1440.6	1462.0	1462.0	1469.1	1444.2	1387.3	1309.0	1278.8
35°	1248.5	1287.7	1337.5	1403.3	1442.4	1465.5	1430.0	1401.5	1364.2	1284.1	1229.0
37.5°	1221.9	1248.5	1312.6	1374.8	1408.6	1433.5	1419.3	1369.5	1319.7	1253.9	1209.4
40°	1193.4	1236.1	1293.0	1351.7	1389.1	1414.0	1403.3	1344.6	1284.1	1221.9	1191.6
42.5°	1173.8	1202.3	1261.0	1326.8	1371.3	1419.3	1387.3	1314.4	1271.7	1186.3	1152.5
45°	1157.8	1204.1	1266.3	1293.0	1339.3	1389.1	1332.1	1287.7	1237.9	1175.6	1147.2
47.5°	1138.3	1181.0	1221.9	1293.0	1314.4	1337.5	1326.8	1255.7	1213.0	1145.4	1125.8
50°	1131.2	1147.2	1221.9	1261.0	1291.2	1314.4	1285.9	1232.5	1191.6	1122.3	1079.6
52.5°	1102.7	1132.9	1181.0	1232.5	1269.9	1298.3	1252.1	1218.3	1163.2	1090.3	1063.6
55°	1067.1	1084.9	1170.3	1223.6	1243.2	1262.8	1245.0	1189.9	1132.9	1058.2	1031.6
57.5°	1020.9	1061.8	1131.2	1205.9	1230.8	1241.4	1213.0	1168.5	1097.4	1031.6	988.9
60°	972.9	1015.6	1092.0	1152.5	1177.4	1216.5	1173.8	1147.2	1065.4	992.4	946.2
62.5°	924.9	972.9	1029.8	1106.3	1127.6	1143.6	1132.9	1095.6	1029.8	948.0	891.1
65°	867.9	903.5	974.6	1013.8	1028.0	1065.4	1028.0	1013.8	955.1	876.8	828.8
67.5°	782.6	812.8	875.1	912.4	923.1	939.1	937.3	921.3	855.5	802.1	759.4
70°	684.7	711.4	750.6	795.0	800.4	819.9	802.1	798.6	755.9	683.0	659.8
72.5°	549.6	574.5	626.1	645.6	647.4	654.5	645.6	633.2	622.5	546.0	522.9
75°	421.5	435.7	460.6	478.4	478.4	487.3	482.0	469.5	441.1	393.1	369.9
77.5°	293.5	307.7	339.7	350.4	348.6	352.2	336.1	323.7	281.0	256.1	236.5
80°	213.4	222.3	238.3	245.4	247.2	252.6	233.0	222.3	197.4	169.0	160.1
82.5°	154.7	160.1	161.8	170.7	170.7	161.8	156.5	145.8	128.1	110.3	103.2
85°	64.0	65.8	67.6	78.3	80.0	96.0	88.9	83.6	72.9	62.2	56.9
87.5°	16.0	17.8	23.1	19.6	23.1	23.1	24.9	28.5	28.5	23.1	23.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9
2.5°	4850.1	4864.4	5045.8	5068.9	5157.8	5248.5	5431.7	5563.3	5670.0	5739.4	5759.0
5°	4104.9	4195.6	4279.2	4414.4	4537.1	4711.4	4912.4	5161.4	5474.4	5634.5	5698.5
7.5°	3213.9	3320.6	3441.5	3573.1	3752.8	4065.8	4334.3	4622.5	5022.6	5188.1	5438.8
10°	2623.4	2742.5	2902.6	3004.0	3221.0	3519.8	3832.8	4165.4	4547.8	4786.1	5076.0
12.5°	2319.2	2417.1	2564.7	2778.1	2940.0	3133.8	3366.8	3786.6	4334.3	4560.2	4759.4
15°	1983.1	2091.6	2262.3	2498.9	2692.7	2923.9	3185.4	3642.5	4225.9	4574.5	4743.4
17.5°	1705.6	1783.9	1963.5	2168.1	2390.4	2642.9	3018.2	3635.4	4339.7	4786.1	5061.8
20°	1513.6	1524.2	1622.0	1796.3	2098.7	2427.7	2915.1	3599.8	4704.3	5150.7	5499.3
22.5°	1392.6	1381.9	1383.7	1531.3	1743.0	2216.1	2753.2	3720.7	5118.7	5730.5	5965.3
25°	1332.1	1303.7	1285.9	1317.9	1510.0	1965.3	2630.5	3880.8	5565.1	6208.9	6497.1
27.5°	1300.1	1250.3	1214.8	1220.1	1360.6	1839.0	2554.0	3950.2	6008.0	6875.9	6977.3
30°	1287.7	1225.4	1173.8	1156.1	1248.5	1663.0	2390.4	4069.3	6404.6	7242.3	7329.4
32.5°	1243.2	1166.7	1116.9	1100.9	1138.3	1508.2	2273.0	4154.7	6755.0	7640.7	7610.5
35°	1191.6	1127.6	1065.4	1035.1	1061.8	1408.6	2178.7	4113.8	7167.6	7950.2	7934.1
37.5°	1186.3	1102.7	1051.1	1001.3	999.5	1285.9	2050.7	4152.9	7430.8	8505.1	8286.3
40°	1140.1	1086.7	1019.1	978.2	955.1	1223.6	1926.2	4060.4	7816.8	8729.2	8514.0
42.5°	1141.8	1061.8	1003.1	955.1	932.0	1132.9	1840.8	4035.5	7951.9	9093.8	8620.7
45°	1113.4	1035.1	985.3	928.4	916.0	1063.6	1759.0	3919.9	8190.3	9111.6	8487.3
47.5°	1084.9	1015.6	962.2	894.6	866.2	1038.7	1695.0	3823.9	8065.8	8944.4	8302.3
50°	1065.4	985.3	935.5	887.5	807.5	996.0	1611.4	3800.8	7891.5	8718.5	7959.0
52.5°	1031.6	960.4	908.8	871.5	743.4	956.9	1579.4	3935.9	8104.9	8549.5	7859.4
55°	999.5	926.6	860.8	787.9	690.1	853.7	1490.4	4062.2	8416.1	8939.0	8311.2
57.5°	965.8	896.4	825.3	738.1	638.5	747.0	1397.9	4085.3	7832.8	8261.4	7889.7
60°	921.3	832.4	779.0	665.2	583.4	618.9	1108.0	3601.6	6075.6	6899.0	6911.5
62.5°	871.5	775.5	729.2	595.8	526.5	533.6	903.5	3027.1	4928.4	5711.0	6050.7
65°	805.7	713.2	658.1	551.4	485.5	462.4	661.6	2217.9	3743.9	4633.1	5019.1
67.5°	720.3	633.2	563.8	480.2	434.0	396.6	451.8	1248.5	2210.7	3110.7	3228.1
70°	629.6	554.9	482.0	412.6	361.0	334.4	330.8	553.1	1056.5	1673.6	1904.8
72.5°	496.2	442.9	384.2	332.6	298.8	259.7	236.5	229.4	357.5	681.2	940.9
75°	355.7	311.2	277.5	243.7	218.8	197.4	179.6	163.6	149.4	170.7	234.8
77.5°	224.1	208.1	181.4	172.5	158.3	153.0	145.8	136.9	126.3	119.2	119.2
80°	151.2	140.5	131.6	129.8	124.5	122.7	124.5	115.6	104.9	96.0	99.6
82.5°	101.4	99.6	97.8	96.0	97.8	99.6	103.2	101.4	92.5	87.1	88.9
85°	60.5	64.0	67.6	71.1	78.3	69.4	56.9	48.0	42.7	39.1	37.3
87.5°	23.1	32.0	28.5	26.7	28.5	26.7	24.9	23.1	19.6	17.8	17.8
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: P528888

CATALOG NUMBER: GALN-SA4A-730-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9	5445.9
2.5°	5888.8	5924.4	5954.6	5947.5	5885.2	5801.7	5767.9	5595.3	5559.8	5536.7
5°	5968.8	6175.2	6219.6	6192.9	6031.1	5826.6	5627.4	5374.8	5227.2	5221.8
7.5°	5821.2	6075.6	6155.6	6216.1	6000.9	5645.1	5303.7	4924.8	4832.3	4839.5
10°	5445.9	5851.5	6048.9	6111.1	5863.9	5556.2	5083.1	4699.0	4501.5	4498.0
12.5°	5237.9	5556.2	5611.4	5698.5	5625.6	5314.3	4955.1	4524.7	4332.6	4329.0
15°	5052.9	5262.8	5278.8	5401.5	5440.6	5230.7	4988.9	4530.0	4375.3	4359.2
17.5°	5214.7	5068.9	5008.4	5024.4	5140.0	5216.5	5184.5	4832.3	4674.1	4585.1
20°	5323.2	4997.7	4814.6	4832.3	4969.3	5248.5	5476.2	5269.9	5019.1	5029.8
22.5°	5613.1	5008.4	4722.1	4702.5	4919.5	5415.7	5805.2	5823.0	5581.1	5522.4
25°	6047.1	5131.1	4693.6	4688.3	4896.4	5595.3	6189.4	6477.5	6230.3	6121.8
27.5°	6395.7	5323.2	4782.5	4800.3	4969.3	5741.2	6516.6	6899.0	6710.5	6577.1
30°	6701.6	5522.4	4907.0	4825.2	5164.9	5817.7	6657.1	7379.2	7228.1	7117.8
32.5°	6827.9	5805.2	5104.5	4969.3	5326.8	5910.1	6948.8	7845.2	7715.4	7443.3
35°	7041.3	5963.5	5211.2	5200.5	5609.6	6132.5	7085.8	8152.9	8099.6	7857.7
37.5°	7212.1	6123.6	5590.0	5472.6	5997.3	6506.0	7306.3	8578.0	8455.3	8341.4
40°	7343.7	6409.9	5943.9	6098.7	6474.0	6845.7	7509.1	8604.7	8958.6	8627.8
42.5°	7222.7	6666.0	6525.5	6895.5	7251.2	7233.4	7532.2	8811.0	9076.0	8903.5
45°	7192.5	7100.0	7445.0	7781.2	7863.0	7555.3	7366.8	8583.3	9040.4	8963.9
47.5°	7119.6	7526.9	8128.0	8675.8	8551.3	7770.5	7169.4	8542.4	9061.8	8924.8
50°	7094.7	7619.3	8633.1	9166.7	9092.0	7957.3	7076.9	8279.2	8910.6	8898.1
52.5°	7092.9	7809.6	8843.0	9433.5	9479.7	8252.5	7203.2	8412.6	9028.0	9132.9
55°	7172.9	7749.2	8816.3	9285.9	9268.1	8120.9	7217.4	8501.5	9172.0	9275.2
57.5°	6765.6	6941.7	7276.1	7647.8	7551.8	6726.5	6445.5	7859.4	8417.9	8343.2
60°	5842.6	5291.2	4914.2	4896.4	4709.6	4451.7	5275.2	7014.6	7014.6	6941.7
62.5°	5116.9	3473.5	2984.4	2845.7	2979.1	3276.1	5088.5	6822.5	6628.7	6545.1
65°	4474.9	2651.8	2157.4	2118.3	2349.5	2797.7	4601.1	5812.3	5470.8	5193.4
67.5°	2879.5	1942.2	1604.3	1534.9	1814.1	2054.2	3062.7	3574.9	3359.7	3251.2
70°	1856.8	1264.6	892.8	837.7	946.2	1266.3	1956.4	2084.5	1771.4	1698.5
72.5°	878.6	546.0	313.0	257.9	289.9	483.8	773.7	832.4	691.9	633.2
75°	279.2	201.0	128.1	110.3	104.9	124.5	177.9	136.9	99.6	97.8
77.5°	124.5	119.2	101.4	85.4	74.7	62.2	51.6	42.7	44.5	46.2
80°	103.2	94.3	83.6	74.7	62.2	48.0	37.3	28.5	28.5	30.2
82.5°	90.7	81.8	72.9	62.2	53.4	39.1	28.5	19.6	17.8	17.8
85°	39.1	46.2	49.8	53.4	42.7	32.0	19.6	12.4	10.7	10.7
87.5°	16.0	14.2	12.4	10.7	8.9	8.9	7.1	5.3	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)