

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: P528210

Luminaire Tested: **GALN-SA3B-735-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528210
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-SA3B-735-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA 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: 11785 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

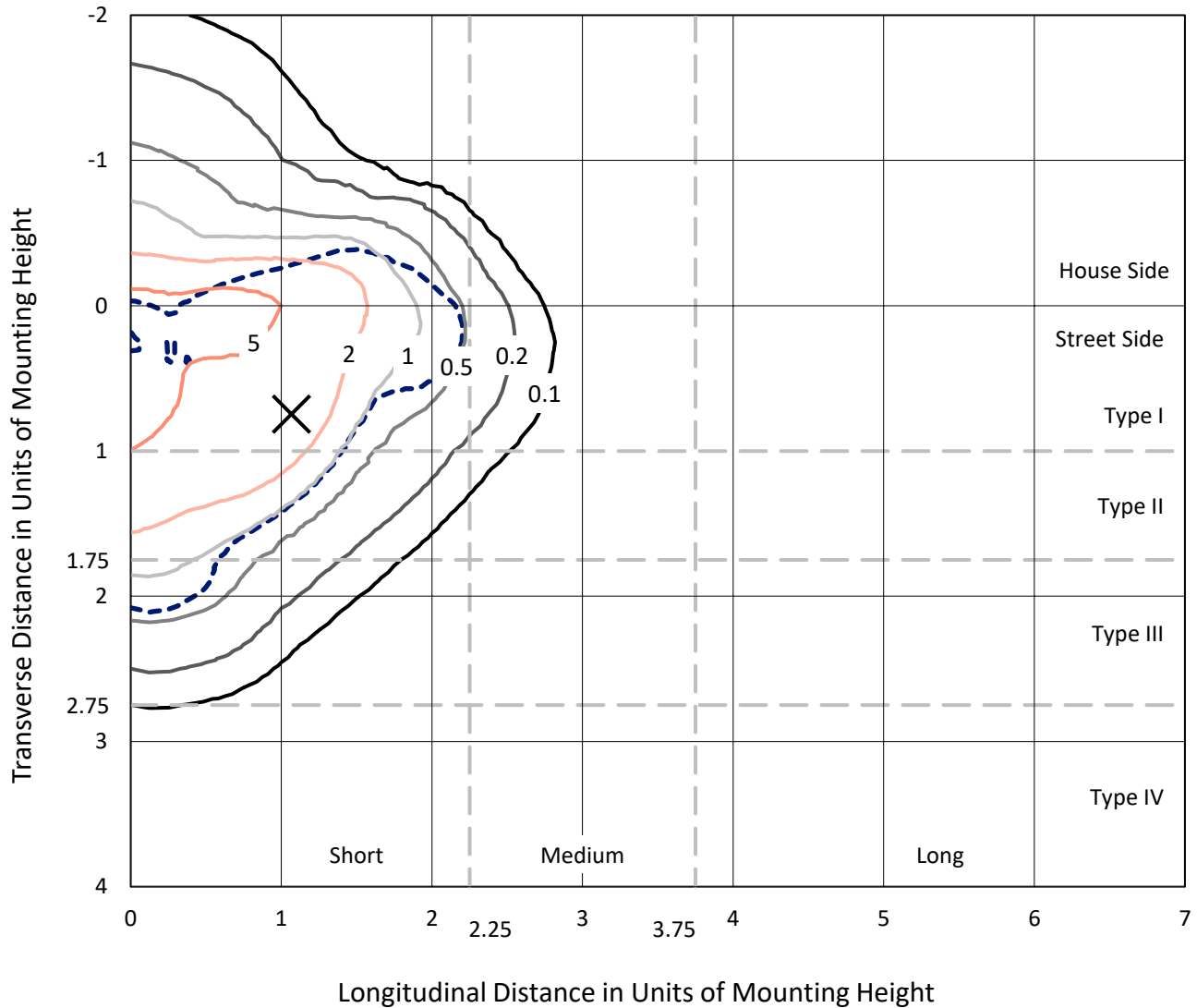
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

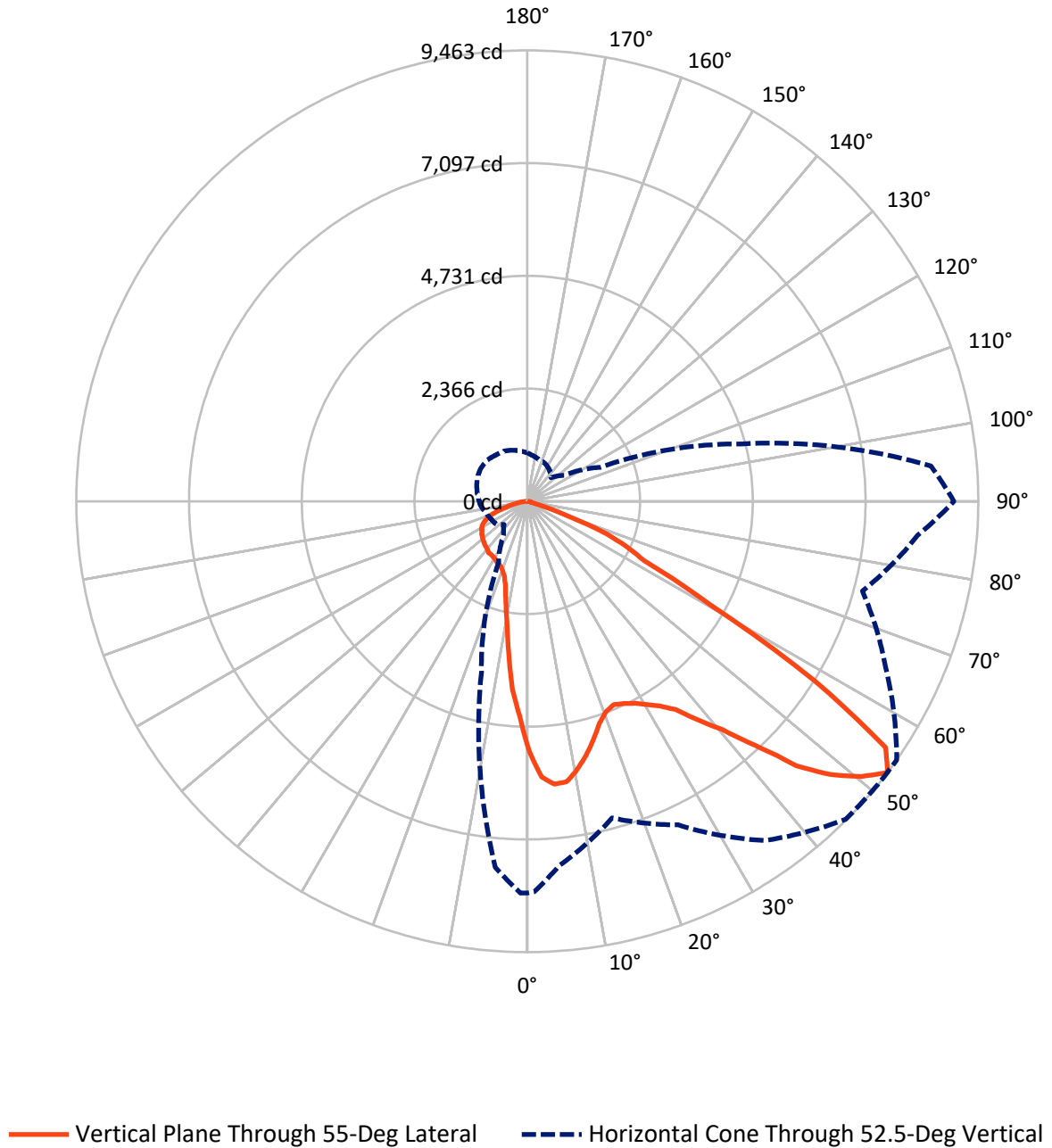
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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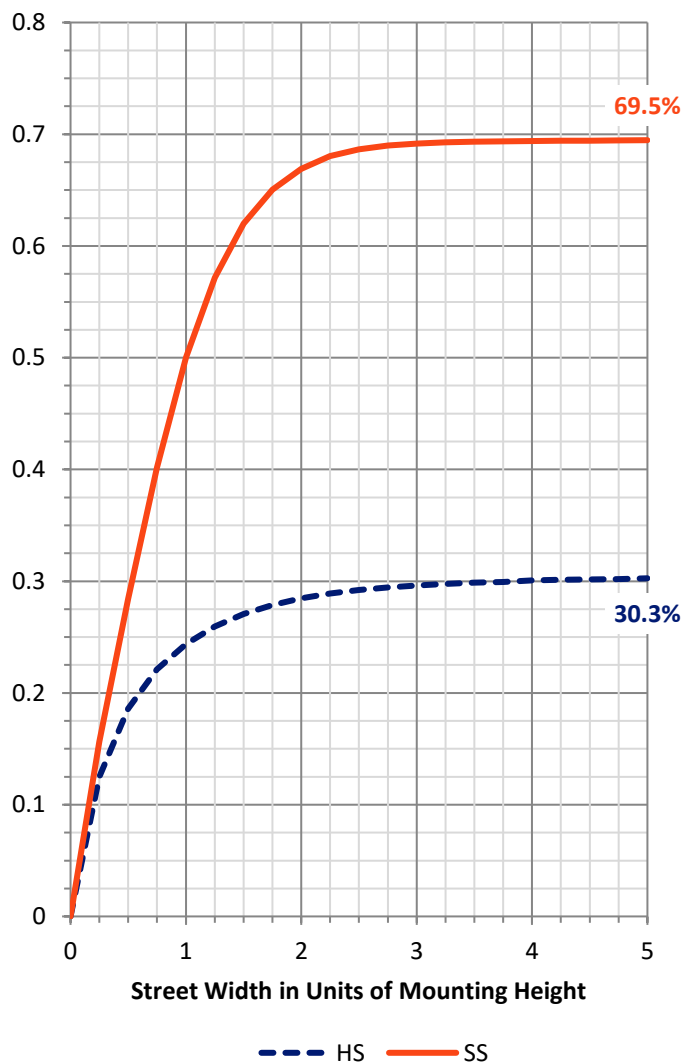
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3595.1	0.0	3595.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8189.9	0.0	8189.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	11785.0	0.0	11785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.6	3.4
10°-20°	866.0	7.3
20°-30°	1313.1	11.1
30°-40°	1897.2	16.1
40°-50°	2535.2	21.5
50°-60°	2829.8	24.0
60°-70°	1552.3	13.2
70°-80°	335.6	2.8
80°-90°	54.3	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°	11785.0	100.0
0°-180°	11785.0	100.0

Coefficient of Utilization



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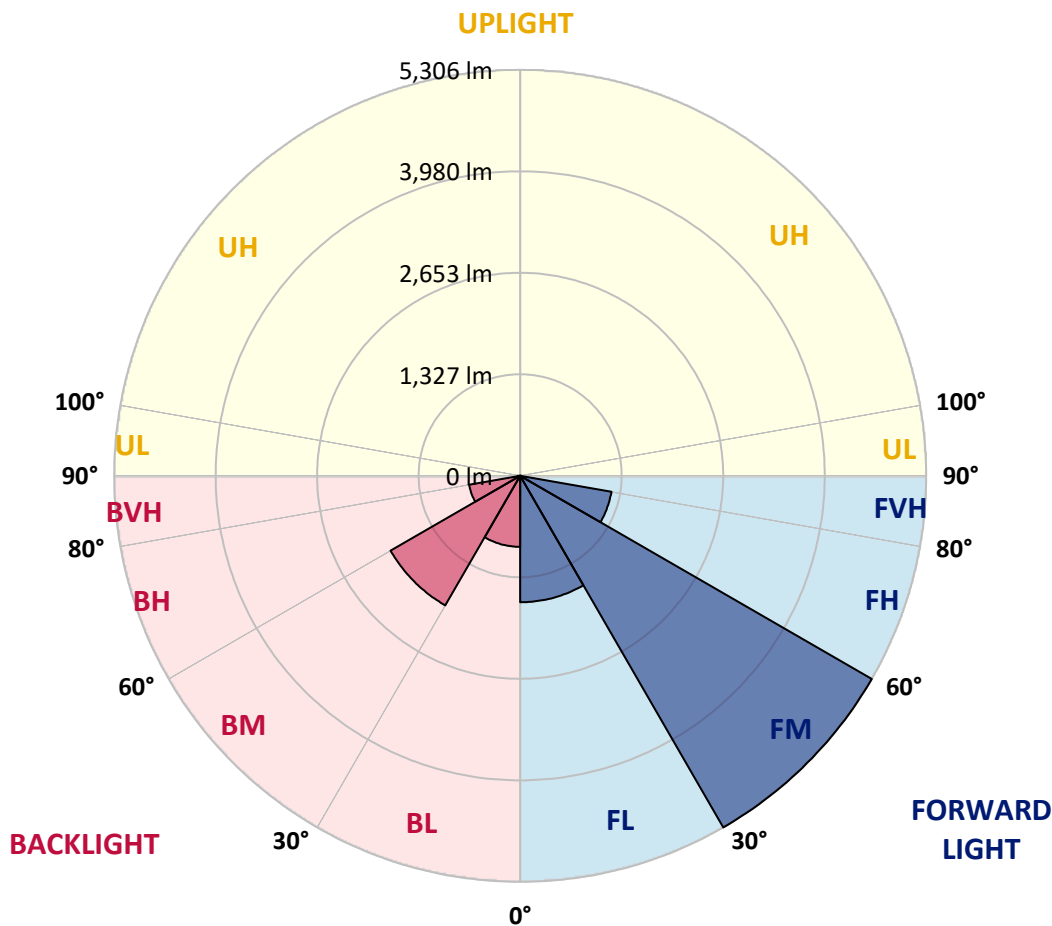
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.5	14.0			
FM (30°-60°)	5306.2	45.0			
FH (60°-80°)	1211.2	10.3			G1/1800
FVH (80°-90°)	20.1	0.2			G1/100
BL (0°-30°)	928.2	7.9	B2/1000		
BM (30°-60°)	1956.0	16.6	B2/2500		
BH (60°-80°)	676.7	5.7	B2/1000		G2/1000
BVH (80°-90°)	34.2	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°	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0
2.5°	5516.9	5485.9	5513.4	5644.2	5719.9	5771.5	5804.2	5799.1	5675.2	5554.7	5554.7
5°	5355.1	5315.5	5372.3	5668.3	5966.0	5991.8	6034.8	5964.3	5781.9	5561.6	5286.3
7.5°	4887.1	4916.3	5010.9	5399.8	5787.0	5981.5	6033.1	5943.6	5647.6	5236.4	4832.0
10°	4482.7	4551.5	4770.0	5189.9	5546.1	5799.1	5855.9	5730.2	5496.2	4992.0	4630.7
12.5°	4343.3	4300.3	4542.9	4962.8	5303.5	5439.4	5465.2	5473.8	5315.5	4868.1	4427.6
15°	4326.1	4353.6	4542.9	4861.2	5071.2	5078.1	5121.1	5188.2	5208.8	4952.4	4522.2
17.5°	4573.9	4541.2	4735.6	4988.6	4888.8	4789.0	4799.3	4895.7	5066.0	5024.7	4819.9
20°	4940.4	5014.4	5167.5	5141.7	4873.3	4620.3	4622.0	4713.3	5048.8	5324.1	5234.7
22.5°	5549.6	5621.8	5735.4	5423.9	4873.3	4570.4	4511.9	4635.8	5158.9	5680.3	5702.7
25°	6105.4	6237.9	6268.8	5902.3	5117.6	4616.9	4579.0	4701.2	5269.1	6027.9	6239.6
27.5°	6611.3	6659.5	6795.4	6210.3	5253.6	4647.9	4644.4	4801.0	5408.5	6201.7	6719.7
30°	7010.5	7005.3	7082.8	6404.8	5470.4	4821.7	4654.7	4950.7	5590.9	6489.1	7163.7
32.5°	7282.4	7340.9	7504.4	6675.0	5561.6	4986.9	4856.1	5126.2	5812.8	6625.1	7476.8
35°	7760.8	7862.3	7655.8	6824.7	5850.7	5150.3	4997.2	5365.4	5923.0	6773.0	7860.6
37.5°	8211.6	8134.2	7924.3	6905.5	6038.3	5453.2	5310.4	5828.3	6265.4	7094.8	8115.3
40°	8500.7	8499.0	8125.6	6970.9	6170.8	5916.1	5907.5	6298.1	6685.3	7297.9	8400.9
42.5°	8626.3	8746.8	8208.2	6964.0	6449.5	6477.1	6650.9	7000.2	6983.0	7339.2	8394.0
44°	8798.4	8870.7	8351.0	6979.5	6635.4	6855.6	7265.2	7487.2	7242.8	7316.8	8385.4
45°	8791.5	8796.7	8148.0	7000.2	6793.7	7172.3	7538.8	7913.9	7471.7	7268.6	8499.0
47.5°	8590.2	8531.7	7975.9	6847.0	7287.6	8008.6	8347.6	8574.7	7753.9	7165.4	8357.9
50°	8192.7	8125.6	7557.7	6781.6	7390.8	8528.2	8996.3	9078.9	8010.3	7063.9	8218.5
52.5°	8220.2	8201.3	7676.5	6879.7	7494.1	8691.7	9442.0	9462.6	8301.1	7277.2	8220.2
55°	8712.4	8647.0	8017.2	7001.9	7418.3	8500.7	9158.1	9121.9	8203.0	7148.2	8371.7
57.5°	7972.4	8015.5	7545.7	6518.4	6492.6	6910.7	7199.8	7110.3	6845.3	6451.3	7788.3
60°	6432.3	6554.5	6599.2	5451.5	4899.1	4684.0	4598.0	4439.6	4484.4	5300.0	6841.9
62.5°	5516.9	5510.0	5790.5	4942.1	3209.3	2760.2	2718.9	2755.0	3271.2	5217.4	6700.8
65°	4374.3	4491.3	4577.3	4188.4	2539.9	2049.5	2047.7	2276.6	2830.7	4360.5	5410.2
67.5°	2777.4	2930.5	3037.2	2679.3	1698.4	1459.2	1419.7	1695.0	1961.7	2860.0	3257.5
70°	1565.9	1638.2	1686.4	1545.3	1080.7	757.1	712.4	777.8	1185.6	1851.6	1930.7
72.5°	604.0	636.7	702.1	707.2	407.8	244.4	197.9	237.5	499.0	733.1	698.6
75°	92.9	99.8	141.1	168.6	117.0	89.5	94.6	98.1	139.4	189.3	158.3
77.5°	44.7	44.7	43.0	49.9	58.5	63.7	68.8	75.7	82.6	91.2	87.8
80°	29.3	29.3	29.3	34.4	43.0	51.6	58.5	61.9	65.4	72.3	68.8
82.5°	18.9	18.9	18.9	25.8	34.4	43.0	46.5	55.1	61.9	72.3	67.1
85°	10.3	10.3	10.3	17.2	25.8	36.1	34.4	27.5	15.5	1.7	3.4
87.5°	3.4	3.4	3.4	3.4	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°	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0
2.5°	5410.2	5331.0	5324.1	5162.4	5017.8	4947.3	4890.5	4732.2	4766.6	4675.4	4673.7
5°	5148.6	4986.9	4725.3	4510.2	4295.1	4252.1	4064.5	3901.0	3906.2	3789.2	3809.8
7.5°	4678.8	4567.0	4248.6	3911.4	3625.7	3422.7	3245.4	3138.7	3002.8	2956.3	2932.2
10°	4381.1	4243.5	3885.5	3462.2	3142.2	3033.8	2863.4	2768.8	2629.4	2560.5	2512.4
12.5°	4250.4	4049.0	3601.6	3171.4	2958.0	2846.2	2701.6	2529.6	2364.4	2300.7	2212.9
15°	4264.1	4023.2	3519.0	3054.4	2798.0	2581.2	2452.1	2261.1	2092.5	1980.6	1917.0
17.5°	4472.3	4179.8	3556.9	2964.9	2596.7	2324.8	2071.8	1865.3	1731.1	1646.8	1626.1
20°	4964.5	4567.0	3620.5	2820.4	2395.3	2056.3	1744.9	1529.8	1426.5	1424.8	1426.5
22.5°	5374.0	4980.0	3749.6	2734.3	2194.0	1712.2	1402.4	1333.6	1313.0	1356.0	1361.1
25°	5926.4	5444.6	3971.6	2689.6	2008.2	1459.2	1268.2	1242.4	1240.7	1295.8	1297.5
27.5°	6492.6	5850.7	4104.1	2558.8	1818.9	1328.5	1187.3	1182.2	1209.7	1268.2	1263.1
30°	6878.0	6191.4	4343.3	2402.2	1595.2	1213.2	1154.7	1161.5	1199.4	1244.1	1251.0
32.5°	7327.1	6527.0	4405.2	2316.2	1457.5	1116.8	1075.5	1091.0	1139.2	1209.7	1247.6
35°	7841.7	6764.4	4499.9	2199.2	1405.9	1042.8	1022.2	1039.4	1097.9	1144.3	1185.6
37.5°	8221.9	7184.3	4517.1	2108.0	1349.1	1001.5	968.8	1025.6	1060.0	1125.4	1146.0
40°	8504.2	7488.9	4561.8	2051.2	1304.4	948.2	948.2	986.0	1032.5	1092.7	1134.0
42.5°	8684.8	7710.9	4594.5	1999.6	1218.3	932.7	924.1	961.9	1023.9	1082.4	1101.3
44°	8795.0	7805.5	4561.8	1951.4	1194.2	913.7	913.7	946.4	994.6	1063.4	1085.8
45°	8822.5	7924.3	4489.5	1949.7	1165.0	891.4	887.9	949.9	982.6	1066.9	1080.7
47.5°	8929.2	8070.5	4498.2	1894.6	1094.4	838.0	898.3	925.8	955.0	1029.0	1075.5
50°	8925.8	8161.7	4479.2	1813.7	1042.8	777.8	877.6	908.6	937.8	1013.5	1032.5
52.5°	8949.8	8502.4	4653.0	1684.7	949.9	700.4	808.8	877.6	913.7	977.4	1017.0
55°	8937.8	8696.9	4825.1	1588.3	819.1	653.9	750.3	831.1	882.8	949.9	968.8
57.5°	8163.4	7686.8	4465.5	1407.6	678.0	598.8	667.7	783.0	848.4	917.2	941.3
60°	6669.8	5924.7	3682.5	1035.9	557.5	550.7	621.2	767.5	795.0	855.2	896.5
62.5°	6163.9	5196.8	2920.2	791.6	476.7	504.2	573.0	693.5	736.5	810.5	848.4
65°	4823.4	3451.9	1808.6	535.2	419.9	452.6	518.0	607.4	678.0	746.8	791.6
67.5°	2856.5	1886.0	894.8	375.1	366.5	400.9	468.1	535.2	616.0	691.8	714.1
70°	1555.6	927.5	382.0	285.7	311.5	342.4	407.8	454.3	531.7	590.2	628.1
72.5°	499.0	282.2	191.0	211.7	237.5	273.6	313.2	370.0	425.0	459.5	490.4
75°	120.5	118.7	135.9	148.0	172.1	199.6	232.3	261.6	304.6	337.3	364.8
77.5°	84.3	91.2	105.0	122.2	130.8	141.1	161.8	184.1	203.1	227.1	244.4
80°	65.4	70.6	80.9	89.5	98.1	106.7	117.0	125.6	137.7	153.2	161.8
82.5°	61.9	65.4	75.7	80.9	77.4	75.7	82.6	86.0	87.8	92.9	98.1
85°	5.2	0.0	3.4	12.0	29.3	43.0	46.5	46.5	44.7	48.2	48.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	6.9	5.2
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°	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0
2.5°	4653.0	4594.5	4616.9	4644.4	4604.8	4513.6	4537.7	4527.4	4620.3	4613.4	4706.4
5°	3901.0	3809.8	3820.2	3954.4	3911.4	3957.8	3864.9	3852.9	3870.1	3878.7	3894.2
7.5°	2985.6	2973.5	3076.8	3190.3	3243.7	3188.6	3097.4	3076.8	3057.8	3020.0	3106.0
10°	2436.6	2440.1	2433.2	2519.2	2579.5	2567.4	2512.4	2505.5	2469.3	2455.6	2503.8
12.5°	2175.1	2128.6	2106.3	2078.7	2125.2	2156.2	2132.1	2114.9	2116.6	2133.8	2140.7
15°	1922.1	1892.9	1844.7	1813.7	1836.1	1820.6	1812.0	1846.4	1837.8	1834.4	1875.7
17.5°	1638.2	1662.3	1658.8	1624.4	1653.7	1641.6	1639.9	1615.8	1583.1	1559.0	1572.8
20°	1450.6	1495.4	1529.8	1531.5	1547.0	1545.3	1519.5	1445.5	1421.4	1416.2	1419.7
22.5°	1383.5	1407.6	1448.9	1507.4	1507.4	1479.9	1448.9	1362.9	1340.5	1316.4	1306.1
25°	1330.2	1376.6	1430.0	1436.9	1464.4	1438.6	1388.7	1345.7	1299.2	1266.5	1266.5
27.5°	1302.6	1354.3	1393.8	1405.9	1443.7	1423.1	1371.5	1316.4	1261.3	1259.6	1230.4
30°	1290.6	1338.8	1364.6	1393.8	1411.0	1378.4	1362.9	1304.4	1249.3	1235.5	1187.3
32.5°	1254.5	1323.3	1371.5	1364.6	1378.4	1364.6	1342.2	1294.0	1232.1	1201.1	1196.0
35°	1213.2	1282.0	1333.6	1369.8	1378.4	1349.1	1335.3	1269.9	1185.6	1170.1	1116.8
37.5°	1190.8	1232.1	1295.8	1354.3	1366.3	1350.8	1304.4	1237.2	1152.9	1135.7	1089.3
40°	1163.3	1216.6	1266.5	1314.7	1350.8	1313.0	1259.6	1194.2	1156.4	1104.7	1091.0
42.5°	1142.6	1202.8	1244.1	1297.5	1338.8	1288.9	1226.9	1182.2	1128.8	1094.4	1054.8
44°	1135.7	1190.8	1218.3	1283.7	1318.1	1280.3	1228.6	1182.2	1120.2	1089.3	1054.8
45°	1111.6	1187.3	1216.6	1275.1	1304.4	1273.4	1208.0	1161.5	1116.8	1078.9	1042.8
47.5°	1087.5	1139.2	1189.1	1235.5	1256.2	1245.9	1190.8	1134.0	1080.7	1058.3	1023.9
50°	1080.7	1132.3	1178.7	1221.8	1245.9	1225.2	1175.3	1120.2	1058.3	1022.2	992.9
52.5°	1046.2	1109.9	1161.5	1175.3	1206.3	1194.2	1156.4	1096.1	1037.6	1006.7	982.6
55°	996.3	1063.4	1134.0	1151.2	1196.0	1177.0	1120.2	1063.4	1013.5	967.1	936.1
57.5°	977.4	1042.8	1111.6	1134.0	1161.5	1130.6	1116.8	1056.6	977.4	953.3	905.1
60°	929.2	1011.8	1068.6	1120.2	1122.0	1113.4	1089.3	1020.4	955.0	910.3	875.9
62.5°	891.4	968.8	1013.5	1061.7	1091.0	1066.9	1042.8	979.1	908.6	858.7	819.1
65°	836.3	906.9	944.7	974.0	1006.7	1003.2	961.9	915.5	841.5	801.9	764.0
67.5°	752.0	813.9	865.6	893.1	913.7	908.6	877.6	844.9	769.2	729.6	702.1
70°	650.5	714.1	746.8	762.3	783.0	793.3	769.2	753.7	686.6	635.0	609.2
72.5°	523.1	564.4	612.6	626.4	635.0	641.9	641.9	628.1	559.3	538.6	493.9
75°	385.5	418.2	454.3	454.3	469.8	471.5	474.9	466.3	414.7	387.2	376.9
77.5°	261.6	285.7	314.9	327.0	337.3	335.6	333.8	309.7	282.2	270.2	259.8
80°	170.4	194.4	208.2	223.7	234.0	232.3	235.7	218.5	206.5	185.8	189.3
82.5°	101.5	120.5	134.2	153.2	153.2	158.3	158.3	153.2	141.1	130.8	130.8
85°	48.2	63.7	72.3	84.3	91.2	92.9	82.6	70.6	58.5	53.3	58.5
87.5°	8.6	12.0	17.2	15.5	18.9	17.2	17.2	17.2	17.2	13.8	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



REPORT NUMBER: P528210

CATALOG NUMBER: GALN-SA3B-735-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0	5257.0
2.5°	4672.0	4758.0	4818.2	4918.0	5090.1	5227.8	5368.9	5473.8	5485.9	5516.9
5°	3950.9	3997.4	4150.6	4350.2	4491.3	4723.6	4873.3	5145.2	5246.7	5355.1
7.5°	3085.4	3161.1	3365.9	3500.1	3809.8	4100.6	4401.8	4737.3	4871.6	4887.1
10°	2601.8	2712.0	2851.4	3066.5	3235.1	3558.6	3933.7	4307.1	4456.9	4482.7
12.5°	2285.2	2426.3	2612.2	2767.0	2928.8	3211.0	3570.6	4031.8	4226.3	4343.3
15°	1980.6	2126.9	2331.7	2546.8	2689.6	3026.9	3450.2	3969.9	4222.8	4326.1
17.5°	1667.4	1803.4	1972.0	2204.3	2491.7	2870.3	3431.3	4176.4	4453.4	4573.9
20°	1399.0	1474.7	1670.9	1910.1	2269.7	2710.2	3438.1	4480.9	4887.1	4940.4
22.5°	1294.0	1311.2	1388.7	1608.9	2003.0	2546.8	3560.3	4912.9	5374.0	5549.6
25°	1213.2	1209.7	1230.4	1378.4	1808.6	2483.1	3680.8	5310.4	5914.4	6105.4
27.5°	1168.4	1134.0	1135.7	1275.1	1670.9	2379.9	3835.6	5766.4	6527.0	6611.3
30°	1146.0	1139.2	1118.5	1175.3	1521.2	2225.0	3861.5	6215.5	6888.3	7010.5
32.5°	1132.3	1065.2	1039.4	1060.0	1380.1	2056.3	3957.8	6511.5	7335.7	7282.4
35°	1063.4	1003.2	986.0	1006.7	1280.3	1961.7	3894.2	6769.6	7671.3	7760.8
37.5°	1037.6	984.3	949.9	932.7	1187.3	1882.5	3861.5	7167.1	7996.5	8211.6
40°	1013.5	956.8	915.5	898.3	1115.1	1777.6	3851.1	7473.4	8371.7	8500.7
42.5°	986.0	949.9	903.4	872.4	1027.3	1672.6	3732.4	7568.0	8486.9	8626.3
44°	977.4	922.3	874.2	863.8	992.9	1619.3	3708.3	7654.1	8586.8	8798.4
45°	968.8	917.2	862.1	848.4	980.9	1590.0	3675.6	7674.7	8752.0	8791.5
47.5°	944.7	912.0	858.7	820.8	955.0	1526.3	3577.5	7557.7	8583.3	8590.2
50°	925.8	887.9	832.9	758.9	920.6	1473.0	3622.3	7514.7	8177.2	8192.7
52.5°	905.1	848.4	817.4	690.0	863.8	1428.3	3716.9	7709.2	8223.7	8220.2
55°	881.0	819.1	743.4	631.5	769.2	1371.5	3945.8	8092.9	8653.9	8712.4
57.5°	843.2	789.8	681.4	579.9	660.8	1263.1	3871.8	7358.1	7962.1	7972.4
60°	793.3	743.4	617.8	540.3	542.0	996.3	3462.2	5733.7	6282.6	6432.3
62.5°	745.1	717.6	564.4	483.5	461.2	793.3	2927.1	4764.9	5393.0	5516.9
65°	688.3	621.2	518.0	440.5	395.8	555.8	2073.6	3560.3	4207.3	4374.3
67.5°	616.0	543.8	456.0	387.2	339.0	371.7	1070.3	2023.7	2679.3	2777.4
70°	538.6	471.5	383.7	327.0	273.6	256.4	471.5	965.4	1464.4	1565.9
72.5°	442.2	380.3	306.3	258.1	204.8	177.2	158.3	258.1	519.7	604.0
75°	320.1	277.0	230.6	184.1	144.5	113.6	92.9	77.4	86.0	92.9
77.5°	235.7	201.3	170.4	130.8	101.5	80.9	63.7	48.2	46.5	44.7
80°	184.1	163.5	135.9	105.0	79.2	60.2	44.7	32.7	29.3	29.3
82.5°	144.5	134.2	111.9	86.0	65.4	48.2	32.7	22.4	18.9	18.9
85°	55.1	55.1	80.9	70.6	49.9	34.4	22.4	12.0	10.3	10.3
87.5°	13.8	13.8	13.8	13.8	12.0	10.3	10.3	5.2	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)