

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: STREETWORKS

Report Number: P529978

Luminaire Tested: **GLAN-SA5A-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529978
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: STREETWORKS
Catalog Number: GLAN-SA5A-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA 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: 13554 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

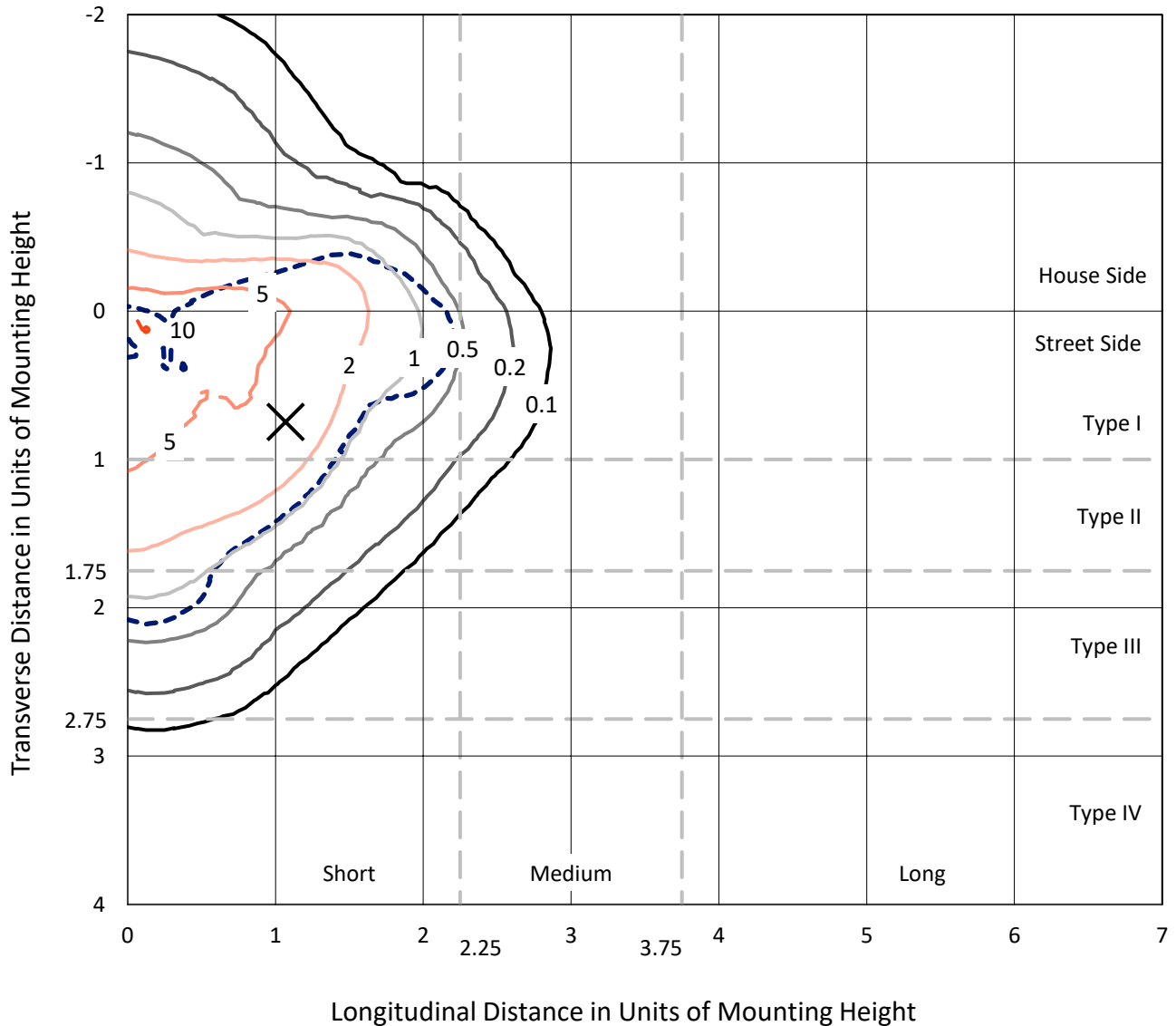
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

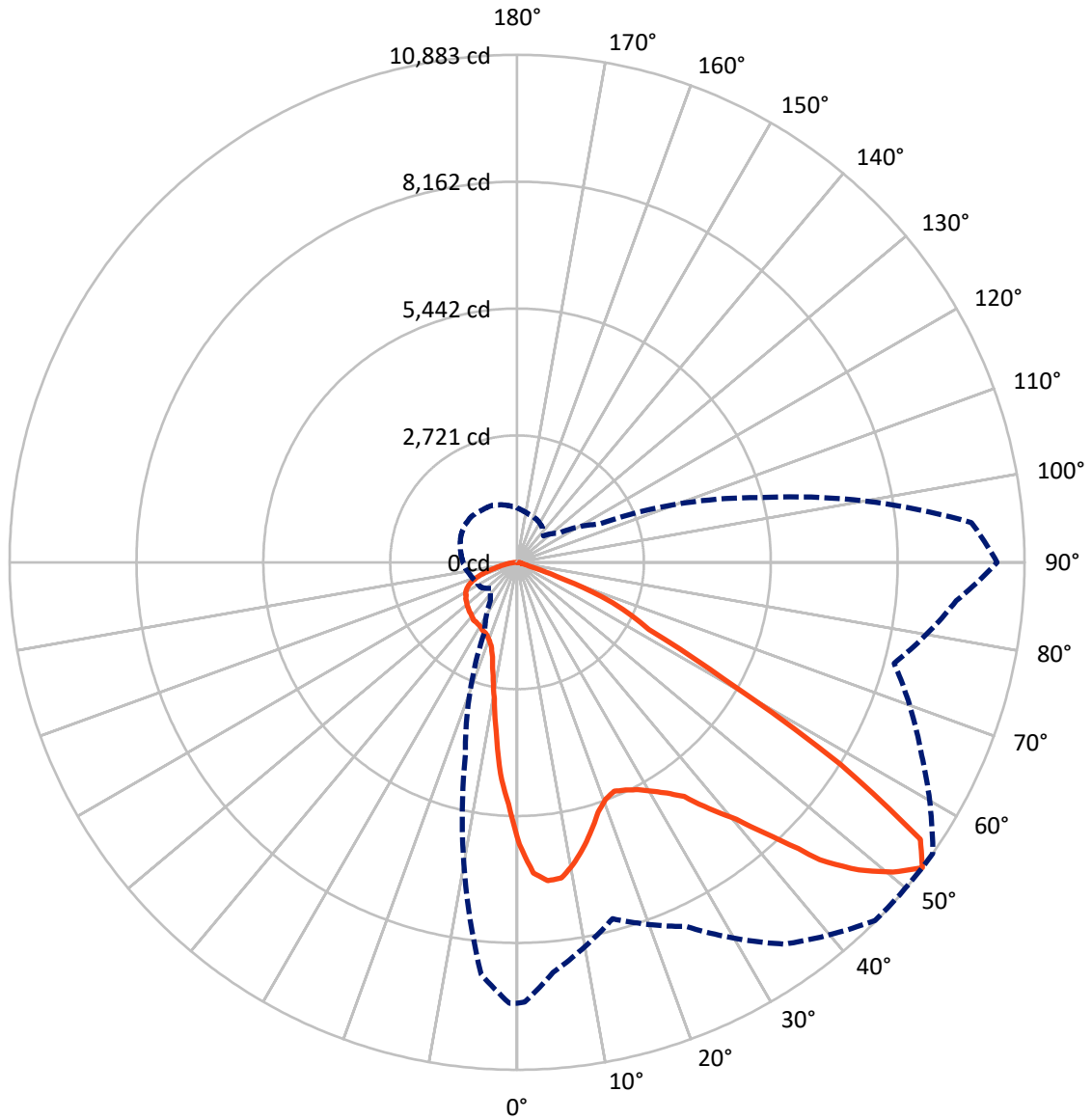
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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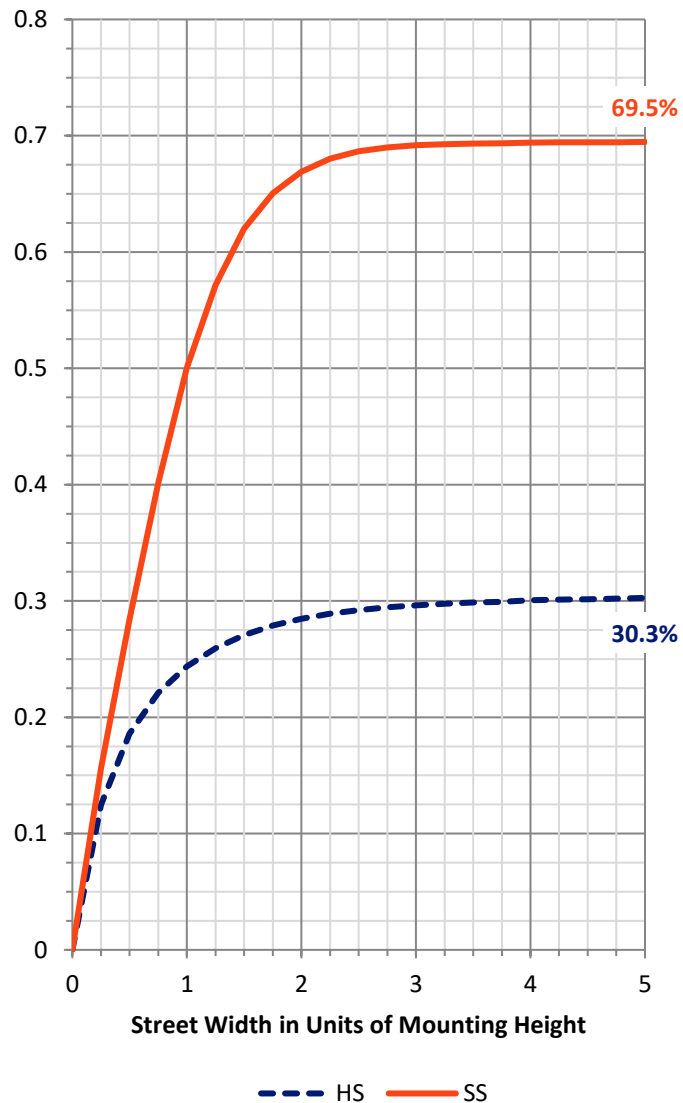
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4134.7	0.0	4134.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	9419.3	0.0	9419.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	13554.0	0.0	13554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.9	3.4
10°-20°	995.9	7.3
20°-30°	1510.2	11.1
30°-40°	2182.0	16.1
40°-50°	2915.7	21.5
50°-60°	3254.6	24.0
60°-70°	1785.3	13.2
70°-80°	386.0	2.8
80°-90°	62.4	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°	13554.0	100.0
0°-180°	13554.0	100.0

Coefficient of Utilization

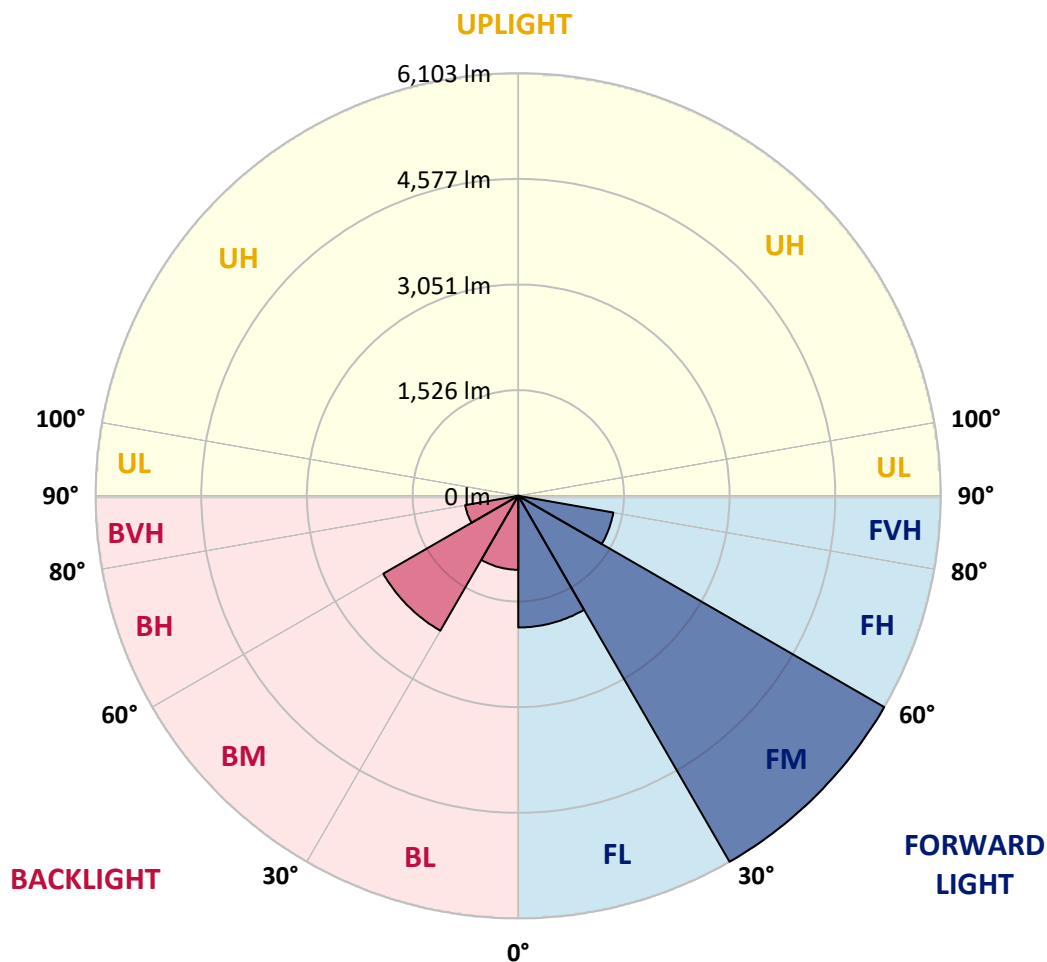


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1900.5	14.0			
FM (30°-60°)	6102.6	45.0			
FH (60°-80°)	1393.0	10.3			G1/1800
FVH (80°-90°)	23.1	0.2			G1/100
BL (0°-30°)	1067.5	7.9	B3/2500		
BM (30°-60°)	2249.6	16.6	B2/2500		
BH (60°-80°)	778.2	5.7	B2/1000		G2/1000
BVH (80°-90°)	39.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1
2.5°	6345.0	6309.4	6341.0	6491.4	6578.5	6637.9	6675.5	6669.5	6527.1	6388.5	6388.5
5°	6158.9	6113.4	6178.7	6519.1	6861.5	6891.2	6940.7	6859.5	6649.8	6396.4	6079.8
7.5°	5620.6	5654.3	5763.1	6210.4	6655.7	6879.3	6938.7	6835.8	6495.4	6022.4	5557.3
10°	5155.5	5234.7	5486.0	5968.9	6378.6	6669.5	6734.9	6590.4	6321.2	5741.4	5325.7
12.5°	4995.2	4945.8	5224.8	5707.7	6099.6	6255.9	6285.6	6295.5	6113.4	5598.9	5092.2
15°	4975.4	5007.1	5224.8	5590.9	5832.4	5840.3	5889.8	5967.0	5990.7	5695.8	5201.1
17.5°	5260.4	5222.8	5446.5	5737.4	5622.6	5507.8	5519.7	5630.5	5826.5	5779.0	5543.4
20°	5682.0	5767.1	5943.2	5913.5	5604.8	5313.9	5315.8	5420.7	5806.7	6123.3	6020.4
22.5°	6382.6	6465.7	6596.3	6238.1	5604.8	5256.5	5189.2	5331.7	5933.3	6533.0	6558.7
25°	7021.8	7174.2	7209.8	6788.3	5885.8	5309.9	5266.4	5406.9	6060.0	6932.8	7176.2
27.5°	7603.7	7659.1	7815.4	7142.6	6042.2	5345.5	5341.6	5521.7	6220.3	7132.7	7728.4
30°	8062.8	8056.9	8146.0	7366.2	6291.5	5545.4	5353.4	5693.9	6430.1	7463.2	8239.0
32.5°	8375.5	8442.8	8630.8	7676.9	6396.4	5735.4	5585.0	5895.7	6685.4	7619.5	8599.2
35°	8925.7	9042.5	8805.0	7849.1	6728.9	5923.4	5747.3	6170.8	6812.0	7789.7	9040.5
37.5°	9444.2	9355.2	9113.7	7942.1	6944.6	6271.7	6107.5	6703.2	7205.9	8159.8	9333.4
40°	9776.7	9774.7	9345.3	8017.3	7097.0	6804.1	6794.2	7243.5	7688.8	8393.3	9661.9
42.5°	9921.2	10059.7	9440.3	8009.4	7417.6	7449.3	7649.2	8051.0	8031.2	8440.8	9654.0
44°	10119.1	10202.2	9604.5	8027.2	7631.4	7884.7	8355.7	8611.0	8330.0	8415.1	9644.1
45°	10111.2	10117.1	9371.0	8051.0	7813.5	8248.9	8670.4	9101.9	8593.2	8359.7	9774.7
47.5°	9879.6	9812.3	9173.1	7874.8	8381.5	9210.7	9600.6	9861.8	8917.8	8240.9	9612.5
50°	9422.5	9345.3	8692.2	7799.6	8500.2	9808.4	10346.7	10441.7	9212.7	8124.2	9452.2
52.5°	9454.1	9432.4	8828.7	7912.4	8619.0	9996.4	10859.3	10883.0	9547.1	8369.6	9454.1
55°	10020.2	9944.9	9220.6	8052.9	8531.9	9776.7	10532.7	10491.2	9434.3	8221.2	9628.3
57.5°	9169.1	9218.6	8678.3	7496.8	7467.1	7948.0	8280.5	8177.6	7872.8	7419.6	8957.4
60°	7397.9	7538.4	7589.8	6269.8	5634.5	5387.1	5288.1	5106.1	5157.5	6095.6	7868.9
62.5°	6345.0	6337.1	6659.7	5684.0	3691.0	3174.5	3127.0	3168.5	3762.3	6000.6	7706.6
65°	5030.9	5165.4	5264.4	4817.1	2921.1	2357.1	2355.1	2618.3	3255.6	5015.0	6222.3
67.5°	3194.3	3370.4	3493.1	3081.4	1953.4	1678.3	1632.8	1949.4	2256.2	3289.3	3746.4
70°	1801.0	1884.1	1939.5	1777.2	1242.9	870.8	819.3	894.6	1363.6	2129.5	2220.5
72.5°	694.7	732.3	807.5	813.4	469.0	281.0	227.6	273.1	573.9	843.1	803.5
75°	106.9	114.8	162.3	194.0	134.6	102.9	108.9	112.8	160.3	217.7	182.1
77.5°	51.5	51.5	49.5	57.4	67.3	73.2	79.2	87.1	95.0	104.9	100.9
80°	33.6	33.6	33.6	39.6	49.5	59.4	67.3	71.2	75.2	83.1	79.2
82.5°	21.8	21.8	21.8	29.7	39.6	49.5	53.4	63.3	71.2	83.1	77.2
85°	11.9	11.9	11.9	19.8	29.7	41.6	39.6	31.7	17.8	2.0	4.0
87.5°	4.0	4.0	4.0	4.0	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°	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1
2.5°	6222.3	6131.2	6123.3	5937.3	5771.0	5689.9	5624.6	5442.5	5482.1	5377.2	5375.2
5°	5921.4	5735.4	5434.6	5187.2	4939.8	4890.3	4674.6	4486.6	4492.5	4358.0	4381.7
7.5°	5381.2	5252.5	4886.4	4498.5	4170.0	3936.4	3732.6	3609.9	3453.5	3400.1	3372.4
10°	5038.8	4880.4	4468.8	3981.9	3613.8	3489.1	3293.2	3184.4	3024.1	2944.9	2889.5
12.5°	4888.4	4656.8	4142.2	3647.5	3402.1	3273.4	3107.2	2909.3	2719.3	2646.0	2545.1
15°	4904.2	4627.1	4047.2	3512.9	3218.0	2968.6	2820.2	2600.5	2406.6	2277.9	2204.7
17.5°	5143.7	4807.2	4090.8	3410.0	2986.5	2673.8	2382.8	2145.3	1991.0	1894.0	1870.2
20°	5709.7	5252.5	4164.0	3243.7	2754.9	2365.0	2006.8	1759.4	1640.7	1638.7	1640.7
22.5°	6180.7	5727.5	4312.4	3144.8	2523.3	1969.2	1613.0	1533.8	1510.0	1559.5	1565.5
25°	6816.0	6261.9	4567.7	3093.3	2309.6	1678.3	1458.6	1428.9	1426.9	1490.3	1492.2
27.5°	7467.1	6728.9	4720.1	2942.9	2091.9	1527.9	1365.6	1359.6	1391.3	1458.6	1452.7
30°	7910.4	7120.8	4995.2	2762.8	1834.6	1395.3	1328.0	1335.9	1379.4	1430.9	1438.8
32.5°	8427.0	7506.7	5066.5	2663.9	1676.3	1284.4	1236.9	1254.7	1310.2	1391.3	1434.8
35°	9018.7	7779.8	5175.3	2529.3	1616.9	1199.3	1175.6	1195.4	1262.7	1316.1	1363.6
37.5°	9456.1	8262.7	5195.1	2424.4	1551.6	1151.8	1114.2	1179.5	1219.1	1294.3	1318.1
40°	9780.7	8613.0	5246.6	2359.1	1500.2	1090.5	1090.5	1134.0	1187.5	1256.7	1304.2
42.5°	9988.5	8868.3	5284.2	2299.7	1401.2	1072.7	1062.8	1106.3	1177.6	1244.9	1266.6
44°	10115.1	8977.2	5246.6	2244.3	1373.5	1050.9	1050.9	1088.5	1143.9	1223.1	1248.8
45°	10146.8	9113.7	5163.5	2242.3	1339.8	1025.2	1021.2	1092.5	1130.1	1227.0	1242.9
47.5°	10269.5	9282.0	5173.4	2179.0	1258.7	963.8	1033.1	1064.8	1098.4	1183.5	1236.9
50°	10265.6	9386.8	5151.6	2086.0	1199.3	894.6	1009.3	1045.0	1078.6	1165.7	1187.5
52.5°	10293.3	9778.7	5351.5	1937.5	1092.5	805.5	930.2	1009.3	1050.9	1124.1	1169.6
55°	10279.4	10002.3	5549.4	1826.7	942.0	752.1	862.9	955.9	1015.3	1092.5	1114.2
57.5°	9388.8	8840.6	5135.7	1618.9	779.8	688.7	767.9	900.5	975.7	1054.9	1082.6
60°	7671.0	6814.0	4235.3	1191.4	641.2	633.3	714.5	882.7	914.3	983.6	1031.1
62.5°	7089.1	5976.9	3358.5	910.4	548.2	579.9	659.0	797.6	847.1	932.2	975.7
65°	5547.4	3970.1	2080.0	615.5	482.9	520.5	595.7	698.6	779.8	858.9	910.4
67.5°	3285.3	2169.1	1029.1	431.4	421.5	461.1	538.3	615.5	708.5	795.6	821.3
70°	1789.1	1066.7	439.4	328.5	358.2	393.8	469.0	522.5	611.5	678.8	722.4
72.5°	573.9	324.6	219.7	243.4	273.1	314.7	360.2	425.5	488.8	528.4	564.0
75°	138.5	136.6	156.3	170.2	197.9	229.6	267.2	300.8	350.3	387.9	419.6
77.5°	97.0	104.9	120.7	140.5	150.4	162.3	186.0	211.8	233.5	261.2	281.0
80°	75.2	81.1	93.0	102.9	112.8	122.7	134.6	144.5	158.3	176.1	186.0
82.5°	71.2	75.2	87.1	93.0	89.1	87.1	95.0	99.0	100.9	106.9	112.8
85°	5.9	0.0	4.0	13.9	33.6	49.5	53.4	53.4	51.5	55.4	55.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.9	5.9
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°	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1
2.5°	5351.5	5284.2	5309.9	5341.6	5296.1	5191.2	5218.9	5207.0	5313.9	5306.0	5412.8
5°	4486.6	4381.7	4393.6	4548.0	4498.5	4551.9	4445.0	4431.2	4451.0	4460.9	4478.7
7.5°	3433.7	3419.9	3538.6	3669.2	3730.6	3667.3	3562.4	3538.6	3516.9	3473.3	3572.3
10°	2802.4	2806.4	2798.4	2897.4	2966.7	2952.8	2889.5	2881.6	2840.0	2824.2	2879.6
12.5°	2501.6	2448.1	2422.4	2390.7	2444.2	2479.8	2452.1	2432.3	2434.3	2454.1	2462.0
15°	2210.6	2177.0	2121.6	2086.0	2111.7	2093.9	2084.0	2123.6	2113.7	2109.7	2157.2
17.5°	1884.1	1911.8	1907.8	1868.3	1901.9	1888.1	1886.1	1858.4	1820.8	1793.1	1808.9
20°	1668.4	1719.8	1759.4	1761.4	1779.2	1777.2	1747.5	1662.4	1634.7	1628.8	1632.8
22.5°	1591.2	1618.9	1666.4	1733.7	1733.7	1702.0	1666.4	1567.4	1541.7	1514.0	1502.1
25°	1529.8	1583.3	1644.6	1652.5	1684.2	1654.5	1597.1	1547.7	1494.2	1456.6	1456.6
27.5°	1498.2	1557.5	1603.1	1616.9	1660.5	1636.7	1577.3	1514.0	1450.7	1448.7	1415.1
30°	1484.3	1539.7	1569.4	1603.1	1622.9	1585.3	1567.4	1500.2	1436.8	1421.0	1365.6
32.5°	1442.8	1521.9	1577.3	1569.4	1585.3	1569.4	1543.7	1488.3	1417.0	1381.4	1375.5
35°	1395.3	1474.4	1533.8	1575.4	1585.3	1551.6	1535.8	1460.6	1363.6	1345.8	1284.4
37.5°	1369.5	1417.0	1490.3	1557.5	1571.4	1553.6	1500.2	1423.0	1326.0	1306.2	1252.8
40°	1337.9	1399.2	1456.6	1512.0	1553.6	1510.0	1448.7	1373.5	1330.0	1270.6	1254.7
42.5°	1314.1	1383.4	1430.9	1492.2	1539.7	1482.3	1411.1	1359.6	1298.3	1258.7	1213.2
44°	1306.2	1369.5	1401.2	1476.4	1516.0	1472.4	1413.1	1359.6	1288.4	1252.8	1213.2
45°	1278.5	1365.6	1399.2	1466.5	1500.2	1464.5	1389.3	1335.9	1284.4	1240.9	1199.3
47.5°	1250.8	1310.2	1367.6	1421.0	1444.7	1432.9	1369.5	1304.2	1242.9	1217.1	1177.6
50°	1242.9	1302.2	1355.7	1405.2	1432.9	1409.1	1351.7	1288.4	1217.1	1175.6	1141.9
52.5°	1203.3	1276.5	1335.9	1351.7	1387.3	1373.5	1330.0	1260.7	1193.4	1157.8	1130.1
55°	1145.9	1223.1	1304.2	1324.0	1375.5	1353.7	1288.4	1223.1	1165.7	1112.3	1076.6
57.5°	1124.1	1199.3	1278.5	1304.2	1335.9	1300.3	1284.4	1215.2	1124.1	1096.4	1041.0
60°	1068.7	1163.7	1229.0	1288.4	1290.4	1280.5	1252.8	1173.6	1098.4	1046.9	1007.4
62.5°	1025.2	1114.2	1165.7	1221.1	1254.7	1227.0	1199.3	1126.1	1045.0	987.6	942.0
65°	961.8	1043.0	1086.5	1120.2	1157.8	1153.8	1106.3	1052.9	967.8	922.3	878.7
67.5°	864.9	936.1	995.5	1027.1	1050.9	1045.0	1009.3	971.7	884.7	839.1	807.5
70°	748.1	821.3	858.9	876.7	900.5	912.4	884.7	866.8	789.7	730.3	700.6
72.5°	601.6	649.1	704.6	720.4	730.3	738.2	738.2	722.4	643.2	619.5	568.0
75°	443.3	480.9	522.5	522.5	540.3	542.3	546.2	536.3	477.0	445.3	433.4
77.5°	300.8	328.5	362.2	376.0	387.9	385.9	383.9	356.2	324.6	310.7	298.8
80°	195.9	223.6	239.5	257.3	269.2	267.2	271.1	251.3	237.5	213.7	217.7
82.5°	116.8	138.5	154.4	176.1	176.1	182.1	182.1	176.1	162.3	150.4	150.4
85°	55.4	73.2	83.1	97.0	104.9	106.9	95.0	81.1	67.3	61.4	67.3
87.5°	9.9	13.9	19.8	17.8	21.8	19.8	19.8	19.8	19.8	15.8	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: P529978

CATALOG NUMBER: GLAN-SA5A-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1	6046.1
2.5°	5373.2	5472.2	5541.5	5656.3	5854.2	6012.5	6174.8	6295.5	6309.4	6345.0
5°	4544.0	4597.4	4773.6	5003.1	5165.4	5432.6	5604.8	5917.5	6034.3	6158.9
7.5°	3548.5	3635.6	3871.1	4025.5	4381.7	4716.2	5062.5	5448.4	5602.8	5620.6
10°	2992.4	3119.1	3279.4	3526.7	3720.7	4092.8	4524.2	4953.7	5125.9	5155.5
12.5°	2628.2	2790.5	3004.3	3182.4	3368.4	3693.0	4106.6	4637.0	4860.7	4995.2
15°	2277.9	2446.2	2681.7	2929.1	3093.3	3481.2	3968.1	4565.8	4856.7	4975.4
17.5°	1917.7	2074.1	2268.0	2535.2	2865.7	3301.1	3946.3	4803.3	5121.9	5260.4
20°	1609.0	1696.1	1921.7	2196.8	2610.4	3117.1	3954.2	5153.6	5620.6	5682.0
22.5°	1488.3	1508.1	1597.1	1850.5	2303.7	2929.1	4094.7	5650.3	6180.7	6382.6
25°	1395.3	1391.3	1415.1	1585.3	2080.0	2855.8	4233.3	6107.5	6802.1	7021.8
27.5°	1343.8	1304.2	1306.2	1466.5	1921.7	2737.1	4411.4	6631.9	7506.7	7603.7
30°	1318.1	1310.2	1286.4	1351.7	1749.5	2559.0	4441.1	7148.5	7922.3	8062.8
32.5°	1302.2	1225.1	1195.4	1219.1	1587.2	2365.0	4551.9	7488.9	8436.9	8375.5
35°	1223.1	1153.8	1134.0	1157.8	1472.4	2256.2	4478.7	7785.8	8822.8	8925.7
37.5°	1193.4	1132.0	1092.5	1072.7	1365.6	2165.1	4441.1	8242.9	9196.9	9444.2
40°	1165.7	1100.4	1052.9	1033.1	1282.5	2044.4	4429.2	8595.2	9628.3	9776.7
42.5°	1134.0	1092.5	1039.0	1003.4	1181.5	1923.7	4292.7	8704.1	9760.9	9921.2
44°	1124.1	1060.8	1005.4	993.5	1141.9	1862.3	4264.9	8803.0	9875.7	10119.1
45°	1114.2	1054.9	991.5	975.7	1128.1	1828.7	4227.3	8826.8	10065.7	10111.2
47.5°	1086.5	1048.9	987.6	944.0	1098.4	1755.5	4114.5	8692.2	9871.7	9879.6
50°	1064.8	1021.2	957.9	872.8	1058.8	1694.1	4166.0	8642.7	9404.7	9422.5
52.5°	1041.0	975.7	940.1	793.6	993.5	1642.6	4274.8	8866.3	9458.1	9454.1
55°	1013.3	942.0	855.0	726.3	884.7	1577.3	4538.1	9307.7	9952.9	10020.2
57.5°	969.8	908.4	783.7	667.0	760.0	1452.7	4453.0	8462.6	9157.3	9169.1
60°	912.4	855.0	710.5	621.4	623.4	1145.9	3981.9	6594.3	7225.7	7397.9
62.5°	856.9	825.3	649.1	556.1	530.4	912.4	3366.4	5480.1	6202.5	6345.0
65°	791.6	714.5	595.7	506.6	455.2	639.2	2384.8	4094.7	4838.9	5030.9
67.5°	708.5	625.4	524.5	445.3	389.9	427.5	1231.0	2327.4	3081.4	3194.3
70°	619.5	542.3	441.3	376.0	314.7	294.9	542.3	1110.3	1684.2	1801.0
72.5°	508.6	437.4	352.3	296.9	235.5	203.8	182.1	296.9	597.7	694.7
75°	368.1	318.6	265.2	211.8	166.2	130.6	106.9	89.1	99.0	106.9
77.5°	271.1	231.6	195.9	150.4	116.8	93.0	73.2	55.4	53.4	51.5
80°	211.8	188.0	156.3	120.7	91.0	69.3	51.5	37.6	33.6	33.6
82.5°	166.2	154.4	128.6	99.0	75.2	55.4	37.6	25.7	21.8	21.8
85°	63.3	63.3	93.0	81.1	57.4	39.6	25.7	13.9	11.9	11.9
87.5°	15.8	15.8	15.8	15.8	13.9	11.9	11.9	5.9	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)