

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: P529250

Luminaire Tested: **GLAN-SA4B-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529250
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-SA4B-827-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 12324 lumens
Efficiency: N/A
Efficacy: 75.1 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): 164
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

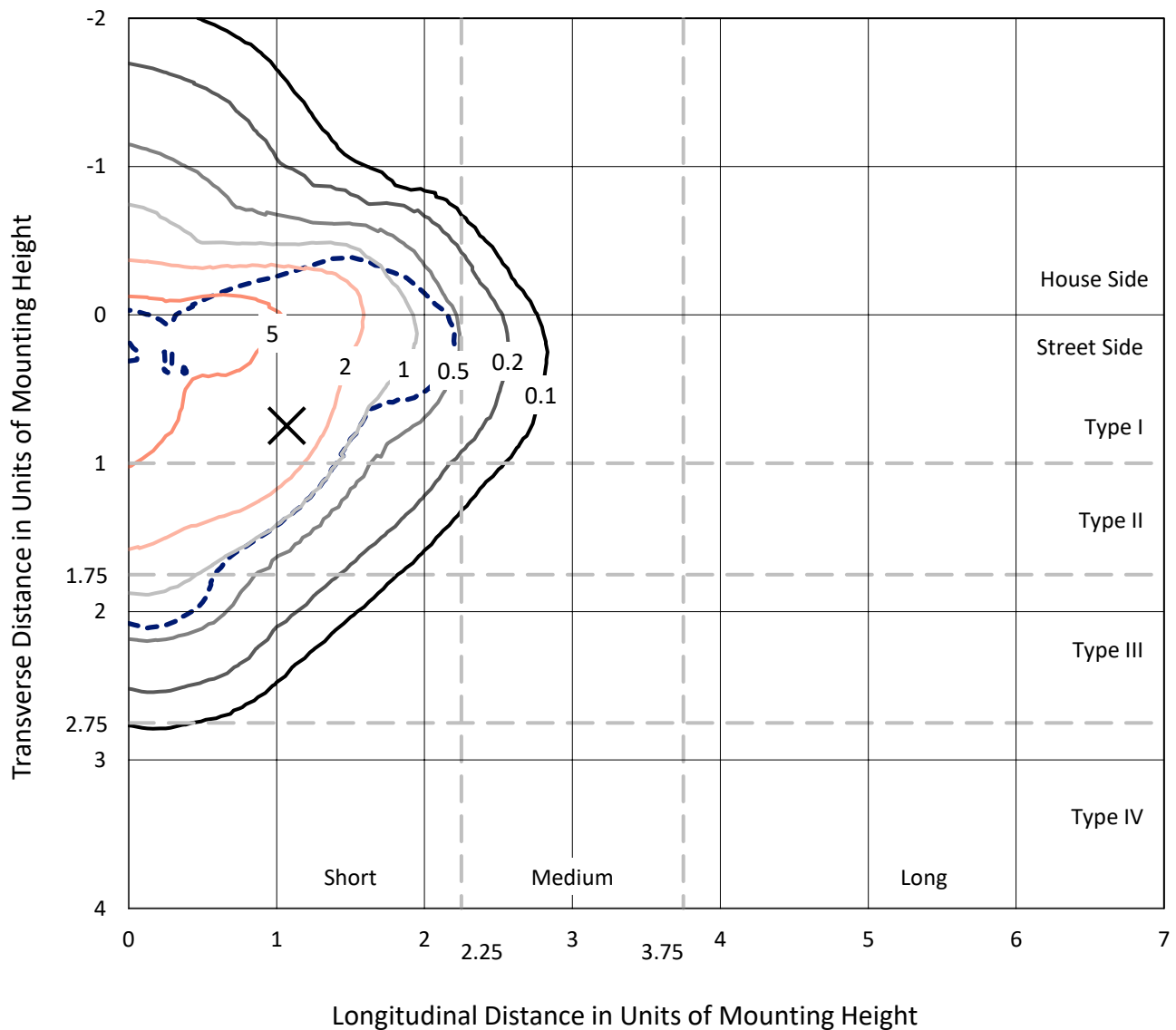


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Iso-Footcandle Lines of Horizontal Illumination

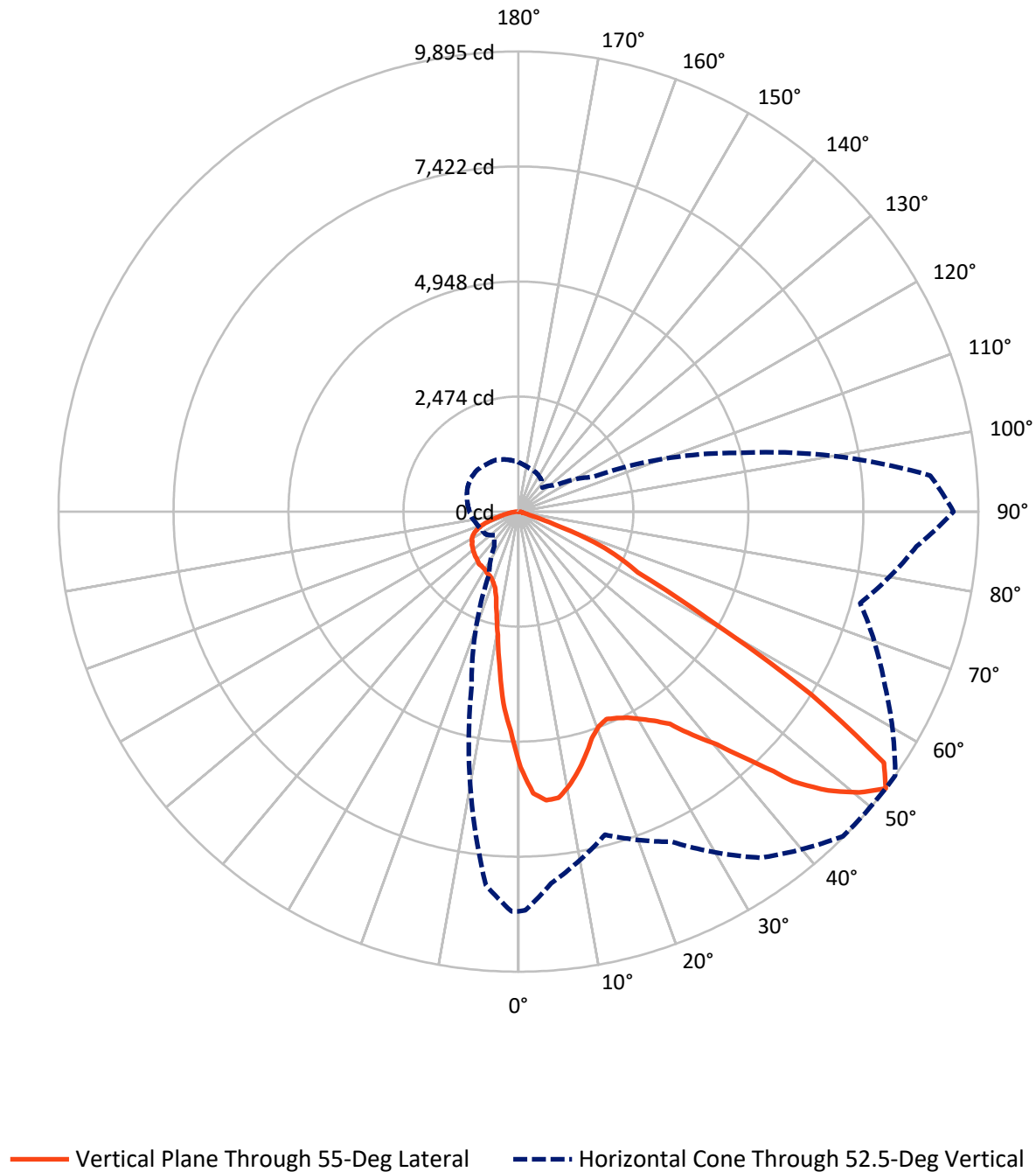
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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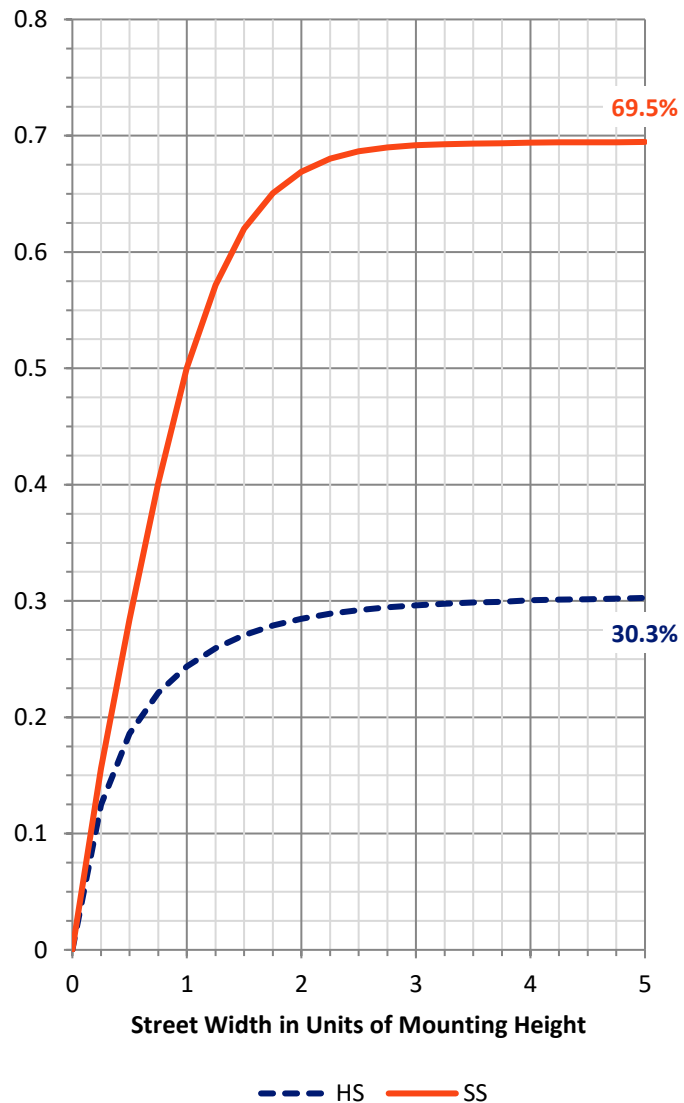
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3759.5	0.0	3759.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8564.5	0.0	8564.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	12324.0	0.0	12324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.0	3.4
10°-20°	905.6	7.3
20°-30°	1373.1	11.1
30°-40°	1984.0	16.1
40°-50°	2651.1	21.5
50°-60°	2959.2	24.0
60°-70°	1623.3	13.2
70°-80°	351.0	2.8
80°-90°	56.8	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°	12324.0	100.0
0°-180°	12324.0	100.0

Coefficient of Utilization



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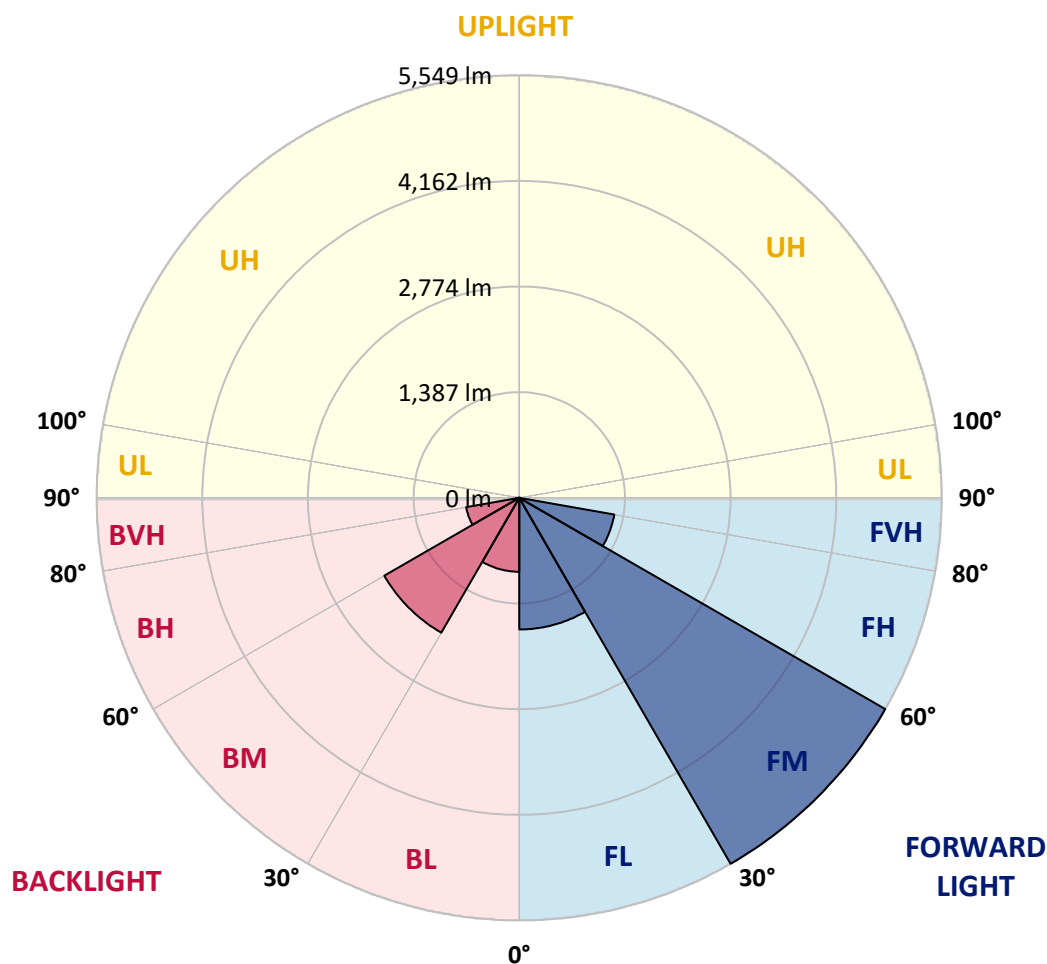
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1728.0	14.0			
FM	(30°-60°)	5548.8	45.0			
FH	(60°-80°)	1266.6	10.3			G1/1800
FVH	(80°-90°)	21.0	0.2			G1/100
BL	(0°-30°)	970.6	7.9	B2/1000		
BM	(30°-60°)	2045.5	16.6	B2/2500		
BH	(60°-80°)	707.6	5.7	B2/1000		G2/1000
BVH	(80°-90°)	35.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5
2.5°	5769.2	5736.8	5765.6	5902.3	5981.5	6035.5	6069.7	6064.3	5934.7	5808.8	5808.8
5°	5600.0	5558.6	5618.0	5927.5	6238.8	6265.8	6310.8	6237.0	6046.3	5816.0	5528.0
7.5°	5110.6	5141.2	5240.1	5646.8	6051.7	6255.0	6309.0	6215.5	5905.9	5475.9	5053.0
10°	4687.7	4759.7	4988.2	5427.3	5799.8	6064.3	6123.7	5992.3	5747.6	5220.3	4842.4
12.5°	4541.9	4496.9	4750.7	5189.7	5546.0	5688.2	5715.2	5724.2	5558.6	5090.8	4630.1
15°	4523.9	4552.7	4750.7	5083.6	5303.1	5310.3	5355.3	5425.5	5447.1	5178.9	4729.1
17.5°	4783.1	4748.9	4952.2	5216.7	5112.4	5008.0	5018.8	5119.6	5297.7	5254.5	5040.4
20°	5166.4	5243.7	5403.9	5376.9	5096.2	4831.6	4833.4	4928.8	5279.7	5567.6	5474.1
22.5°	5803.4	5879.0	5997.7	5672.0	5096.2	4779.5	4718.3	4847.8	5394.9	5940.1	5963.5
25°	6384.6	6523.2	6555.6	6172.3	5351.7	4828.0	4788.5	4916.2	5510.1	6303.6	6525.0
27.5°	6913.7	6964.0	7106.2	6494.4	5493.9	4860.4	4856.8	5020.6	5655.8	6485.4	7027.0
30°	7331.1	7325.7	7406.7	6697.7	5720.6	5042.2	4867.6	5177.1	5846.6	6785.9	7491.3
32.5°	7615.5	7676.6	7847.6	6980.2	5816.0	5214.9	5078.2	5360.7	6078.7	6928.1	7818.8
35°	8115.7	8221.9	8006.0	7136.8	6118.3	5385.9	5225.7	5610.8	6193.9	7082.8	8220.1
37.5°	8587.2	8506.2	8286.7	7221.4	6314.4	5702.6	5553.2	6094.9	6552.0	7419.3	8486.4
40°	8889.5	8887.7	8497.2	7289.8	6453.0	6186.7	6177.7	6586.2	6991.0	7631.7	8785.1
42.5°	9020.9	9146.8	8583.6	7282.6	6744.5	6773.3	6955.0	7320.3	7302.4	7674.8	8777.9
44°	9200.8	9276.4	8732.9	7298.8	6938.9	7169.2	7597.5	7829.6	7574.1	7651.5	8768.9
45°	9193.6	9199.0	8520.6	7320.3	7104.4	7500.3	7883.6	8275.9	7813.4	7601.1	8887.7
47.5°	8983.1	8921.9	8340.7	7160.2	7620.9	8374.8	8729.4	8966.9	8108.5	7493.1	8740.1
50°	8567.4	8497.2	7903.4	7091.8	7728.8	8918.3	9407.8	9494.1	8376.6	7386.9	8594.4
52.5°	8596.2	8576.4	8027.5	7194.4	7836.8	9089.2	9873.8	9895.4	8680.8	7610.1	8596.2
55°	9110.8	9042.5	8383.8	7322.1	7757.6	8889.5	9576.9	9539.1	8578.2	7475.1	8754.5
57.5°	8337.1	8382.0	7890.8	6816.5	6789.5	7226.8	7529.1	7435.5	7158.4	6746.3	8144.5
60°	6726.5	6854.3	6901.1	5700.8	5123.2	4898.2	4808.3	4642.7	4689.5	5542.4	7154.8
62.5°	5769.2	5762.0	6055.3	5168.1	3356.1	2886.4	2843.2	2881.0	3420.8	5456.1	7007.2
65°	4574.3	4696.7	4786.7	4380.0	2656.1	2143.2	2141.4	2380.7	2960.2	4559.9	5657.6
67.5°	2904.4	3064.5	3176.1	2801.8	1776.1	1526.0	1484.6	1772.5	2051.4	2990.8	3406.4
70°	1637.5	1713.1	1763.5	1615.9	1130.1	791.8	745.0	813.4	1239.9	1936.3	2019.0
72.5°	631.6	665.8	734.2	739.6	426.5	255.5	206.9	248.3	521.9	766.6	730.6
75°	97.2	104.4	147.6	176.4	122.4	93.6	99.0	102.6	145.8	197.9	165.6
77.5°	46.8	46.8	45.0	52.2	61.2	66.6	72.0	79.2	86.4	95.4	91.8
80°	30.6	30.6	30.6	36.0	45.0	54.0	61.2	64.8	68.4	75.6	72.0
82.5°	19.8	19.8	19.8	27.0	36.0	45.0	48.6	57.6	64.8	75.6	70.2
85°	10.8	10.8	10.8	18.0	27.0	37.8	36.0	28.8	16.2	1.8	3.6
87.5°	3.6	3.6	3.6	3.6	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°	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5
2.5°	5657.6	5574.8	5567.6	5398.5	5247.3	5173.5	5114.2	4948.6	4984.6	4889.2	4887.4
5°	5384.1	5214.9	4941.4	4716.5	4491.5	4446.6	4250.4	4079.5	4084.9	3962.5	3984.1
7.5°	4892.8	4775.9	4443.0	4090.3	3791.5	3579.2	3393.8	3282.3	3140.1	3091.5	3066.3
10°	4581.5	4437.6	4063.3	3620.6	3285.9	3172.5	2994.4	2895.4	2749.6	2677.6	2627.3
12.5°	4444.8	4234.2	3766.3	3316.5	3093.3	2976.4	2825.2	2645.3	2472.5	2405.9	2314.2
15°	4459.1	4207.2	3680.0	3194.1	2926.0	2699.2	2564.3	2364.5	2188.2	2071.2	2004.6
17.5°	4676.9	4371.0	3719.6	3100.5	2715.4	2431.1	2166.6	1950.7	1810.3	1722.1	1700.5
20°	5191.5	4775.9	3786.1	2949.4	2504.9	2150.4	1824.7	1599.8	1491.8	1490.0	1491.8
22.5°	5619.8	5207.7	3921.1	2859.4	2294.4	1790.5	1466.6	1394.6	1373.0	1418.0	1423.4
25°	6197.5	5693.6	4153.2	2812.6	2100.0	1526.0	1326.2	1299.2	1297.4	1355.0	1356.8
27.5°	6789.5	6118.3	4291.8	2675.8	1902.1	1389.2	1241.7	1236.3	1265.0	1326.2	1320.8
30°	7192.6	6474.6	4541.9	2512.1	1668.1	1268.6	1207.5	1214.7	1254.2	1301.0	1308.2
32.5°	7662.2	6825.5	4606.7	2422.1	1524.2	1167.9	1124.7	1140.9	1191.3	1265.0	1304.6
35°	8200.3	7073.8	4705.7	2299.8	1470.2	1090.5	1068.9	1086.9	1148.1	1196.7	1239.9
37.5°	8598.0	7512.9	4723.7	2204.4	1410.8	1047.3	1013.1	1072.5	1108.5	1176.9	1198.5
40°	8893.1	7831.4	4770.5	2145.0	1364.0	991.5	991.5	1031.1	1079.7	1142.7	1185.9
42.5°	9082.1	8063.5	4804.7	2091.0	1274.0	975.3	966.3	1005.9	1070.7	1131.9	1151.7
44°	9197.2	8162.5	4770.5	2040.6	1248.8	955.5	955.5	989.7	1040.1	1112.1	1135.5
45°	9226.0	8286.7	4694.9	2038.8	1218.3	932.1	928.5	993.3	1027.5	1115.7	1130.1
47.5°	9337.6	8439.6	4703.9	1981.2	1144.5	876.4	939.3	968.1	998.7	1076.1	1124.7
50°	9334.0	8535.0	4684.1	1896.7	1090.5	813.4	917.7	950.1	980.7	1059.9	1079.7
52.5°	9359.2	8891.3	4865.8	1761.7	993.3	732.4	845.8	917.7	955.5	1022.1	1063.5
55°	9346.6	9094.6	5045.8	1660.9	856.6	683.8	784.6	869.2	923.1	993.3	1013.1
57.5°	8536.8	8038.3	4669.7	1472.0	709.0	626.2	698.2	818.8	887.2	959.1	984.3
60°	6974.8	6195.7	3850.9	1083.3	583.0	575.8	649.6	802.6	831.4	894.3	937.5
62.5°	6445.8	5434.5	3053.7	827.8	498.5	527.3	599.2	725.2	770.2	847.6	887.2
65°	5044.0	3609.8	1891.3	559.6	439.1	473.3	541.6	635.2	709.0	781.0	827.8
67.5°	2987.2	1972.2	935.7	392.3	383.3	419.3	489.5	559.6	644.2	723.4	746.8
70°	1626.7	969.9	399.5	298.7	325.7	358.1	426.5	475.1	556.0	617.2	656.8
72.5°	521.9	295.1	199.7	221.3	248.3	286.1	327.5	386.9	444.5	480.5	512.9
75°	126.0	124.2	142.2	154.8	179.9	208.7	242.9	273.5	318.5	352.7	381.5
77.5°	88.2	95.4	109.8	127.8	136.8	147.6	169.2	192.5	212.3	237.5	255.5
80°	68.4	73.8	84.6	93.6	102.6	111.6	122.4	131.4	144.0	160.2	169.2
82.5°	64.8	68.4	79.2	84.6	81.0	79.2	86.4	90.0	91.8	97.2	102.6
85°	5.4	0.0	3.6	12.6	30.6	45.0	48.6	48.6	46.8	50.4	50.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	7.2	5.4
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°	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5
2.5°	4865.8	4804.7	4828.0	4856.8	4815.4	4720.1	4745.3	4734.5	4831.6	4824.4	4921.6
5°	4079.5	3984.1	3994.9	4135.2	4090.3	4138.8	4041.7	4029.1	4047.1	4056.1	4072.3
7.5°	3122.1	3109.5	3217.5	3336.3	3392.0	3334.5	3239.1	3217.5	3197.7	3158.1	3248.1
10°	2548.1	2551.7	2544.5	2634.5	2697.4	2684.8	2627.3	2620.1	2582.3	2567.9	2618.3
12.5°	2274.6	2226.0	2202.6	2173.8	2222.4	2254.8	2229.6	2211.6	2213.4	2231.4	2238.6
15°	2010.0	1979.4	1929.1	1896.7	1920.1	1903.9	1894.9	1930.9	1921.9	1918.3	1961.4
17.5°	1713.1	1738.3	1734.7	1698.7	1729.3	1716.7	1714.9	1689.7	1655.5	1630.3	1644.7
20°	1517.0	1563.8	1599.8	1601.6	1617.7	1615.9	1589.0	1511.6	1486.4	1481.0	1484.6
22.5°	1446.8	1472.0	1515.2	1576.4	1576.4	1547.6	1515.2	1425.2	1401.8	1376.6	1365.8
25°	1391.0	1439.6	1495.4	1502.6	1531.4	1504.4	1452.2	1407.2	1358.6	1324.4	1324.4
27.5°	1362.2	1416.2	1457.6	1470.2	1509.8	1488.2	1434.2	1376.6	1319.0	1317.2	1286.6
30°	1349.6	1400.0	1427.0	1457.6	1475.6	1441.4	1425.2	1364.0	1306.4	1292.0	1241.7
32.5°	1311.8	1383.8	1434.2	1427.0	1441.4	1427.0	1403.6	1353.2	1288.4	1256.0	1250.6
35°	1268.6	1340.6	1394.6	1432.4	1441.4	1410.8	1396.4	1328.0	1239.9	1223.7	1167.9
37.5°	1245.3	1288.4	1355.0	1416.2	1428.8	1412.6	1364.0	1293.8	1205.7	1187.7	1139.1
40°	1216.5	1272.2	1324.4	1374.8	1412.6	1373.0	1317.2	1248.8	1209.3	1155.3	1140.9
42.5°	1194.9	1257.8	1301.0	1356.8	1400.0	1347.8	1283.0	1236.3	1180.5	1144.5	1103.1
44°	1187.7	1245.3	1274.0	1342.4	1378.4	1338.8	1284.8	1236.3	1171.5	1139.1	1103.1
45°	1162.5	1241.7	1272.2	1333.4	1364.0	1331.6	1263.2	1214.7	1167.9	1128.3	1090.5
47.5°	1137.3	1191.3	1243.5	1292.0	1313.6	1302.8	1245.3	1185.9	1130.1	1106.7	1070.7
50°	1130.1	1184.1	1232.7	1277.6	1302.8	1281.2	1229.1	1171.5	1106.7	1068.9	1038.3
52.5°	1094.1	1160.7	1214.7	1229.1	1261.4	1248.8	1209.3	1146.3	1085.1	1052.7	1027.5
55°	1041.9	1112.1	1185.9	1203.9	1250.6	1230.9	1171.5	1112.1	1059.9	1011.3	978.9
57.5°	1022.1	1090.5	1162.5	1185.9	1214.7	1182.3	1167.9	1104.9	1022.1	996.9	946.5
60°	971.7	1058.1	1117.5	1171.5	1173.3	1164.3	1139.1	1067.1	998.7	951.9	915.9
62.5°	932.1	1013.1	1059.9	1110.3	1140.9	1115.7	1090.5	1023.9	950.1	897.9	856.6
65°	874.6	948.3	987.9	1018.5	1052.7	1049.1	1005.9	957.3	880.0	838.6	799.0
67.5°	786.4	851.2	905.1	933.9	955.5	950.1	917.7	883.6	804.4	763.0	734.2
70°	680.2	746.8	781.0	797.2	818.8	829.6	804.4	788.2	718.0	664.0	637.0
72.5°	547.0	590.2	640.6	655.0	664.0	671.2	671.2	656.8	584.8	563.2	516.5
75°	403.1	437.3	475.1	475.1	491.3	493.1	496.7	487.7	433.7	404.9	394.1
77.5°	273.5	298.7	329.3	341.9	352.7	350.9	349.1	323.9	295.1	282.5	271.7
80°	178.2	203.3	217.7	233.9	244.7	242.9	246.5	228.5	215.9	194.3	197.9
82.5°	106.2	126.0	140.4	160.2	160.2	165.6	165.6	160.2	147.6	136.8	136.8
85°	50.4	66.6	75.6	88.2	95.4	97.2	86.4	73.8	61.2	55.8	61.2
87.5°	9.0	12.6	18.0	16.2	19.8	18.0	18.0	18.0	18.0	14.4	16.2
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: P529250

CATALOG NUMBER: GLAN-SA4B-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5	5497.5
2.5°	4885.6	4975.6	5038.6	5143.0	5322.9	5466.9	5614.4	5724.2	5736.8	5769.2
5°	4131.6	4180.2	4340.4	4549.1	4696.7	4939.6	5096.2	5380.5	5486.7	5600.0
7.5°	3226.5	3305.7	3519.8	3660.2	3984.1	4288.2	4603.1	4954.0	5094.4	5110.6
10°	2720.8	2836.0	2981.8	3206.7	3383.1	3721.4	4113.6	4504.1	4660.7	4687.7
12.5°	2389.7	2537.3	2731.6	2893.6	3062.7	3357.9	3734.0	4216.2	4419.6	4541.9
15°	2071.2	2224.2	2438.3	2663.3	2812.6	3165.3	3608.0	4151.4	4416.0	4523.9
17.5°	1743.7	1885.9	2062.2	2305.2	2605.7	3001.6	3588.2	4367.4	4657.1	4783.1
20°	1463.0	1542.2	1747.3	1997.4	2373.5	2834.2	3595.4	4685.9	5110.6	5166.4
22.5°	1353.2	1371.2	1452.2	1682.5	2094.6	2663.3	3723.2	5137.6	5619.8	5803.4
25°	1268.6	1265.0	1286.6	1441.4	1891.3	2596.7	3849.1	5553.2	6184.9	6384.6
27.5°	1221.9	1185.9	1187.7	1333.4	1747.3	2488.7	4011.1	6030.1	6825.5	6913.7
30°	1198.5	1191.3	1169.7	1229.1	1590.8	2326.7	4038.1	6499.8	7203.4	7331.1
32.5°	1184.1	1113.9	1086.9	1108.5	1443.2	2150.4	4138.8	6809.3	7671.2	7615.5
35°	1112.1	1049.1	1031.1	1052.7	1338.8	2051.4	4072.3	7079.2	8022.1	8115.7
37.5°	1085.1	1029.3	993.3	975.3	1241.7	1968.6	4038.1	7494.9	8362.3	8587.2
40°	1059.9	1000.5	957.3	939.3	1166.1	1858.9	4027.3	7815.2	8754.5	8889.5
42.5°	1031.1	993.3	944.7	912.3	1074.3	1749.1	3903.1	7914.2	8875.1	9020.9
44°	1022.1	964.5	914.1	903.3	1038.3	1693.3	3877.9	8004.2	8979.5	9200.8
45°	1013.1	959.1	901.5	887.2	1025.7	1662.7	3843.7	8025.7	9152.2	9193.6
47.5°	987.9	953.7	897.9	858.4	998.7	1596.2	3741.2	7903.4	8975.9	8983.1
50°	968.1	928.5	871.0	793.6	962.7	1540.4	3787.9	7858.4	8551.2	8567.4
52.5°	946.5	887.2	854.8	721.6	903.3	1493.6	3886.9	8061.7	8599.8	8596.2
55°	921.3	856.6	777.4	660.4	804.4	1434.2	4126.2	8463.0	9049.7	9110.8
57.5°	881.8	826.0	712.6	606.4	691.0	1320.8	4048.9	7694.6	8326.3	8337.1
60°	829.6	777.4	646.0	565.0	566.8	1041.9	3620.6	5995.9	6570.0	6726.5
62.5°	779.2	750.4	590.2	505.7	482.3	829.6	3060.9	4982.8	5639.6	5769.2
65°	719.8	649.6	541.6	460.7	413.9	581.2	2168.4	3723.2	4399.8	4574.3
67.5°	644.2	568.6	476.9	404.9	354.5	388.7	1119.3	2116.2	2801.8	2904.4
70°	563.2	493.1	401.3	341.9	286.1	268.1	493.1	1009.5	1531.4	1637.5
72.5°	462.5	397.7	320.3	269.9	214.1	185.3	165.6	269.9	543.4	631.6
75°	334.7	289.7	241.1	192.5	151.2	118.8	97.2	81.0	90.0	97.2
77.5°	246.5	210.5	178.2	136.8	106.2	84.6	66.6	50.4	48.6	46.8
80°	192.5	171.0	142.2	109.8	82.8	63.0	46.8	34.2	30.6	30.6
82.5°	151.2	140.4	117.0	90.0	68.4	50.4	34.2	23.4	19.8	19.8
85°	57.6	57.6	84.6	73.8	52.2	36.0	23.4	12.6	10.8	10.8
87.5°	14.4	14.4	14.4	14.4	12.6	10.8	10.8	5.4	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)