

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: P526440

Luminaire Tested: **GLAN-SA1B-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1B-827-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3581 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

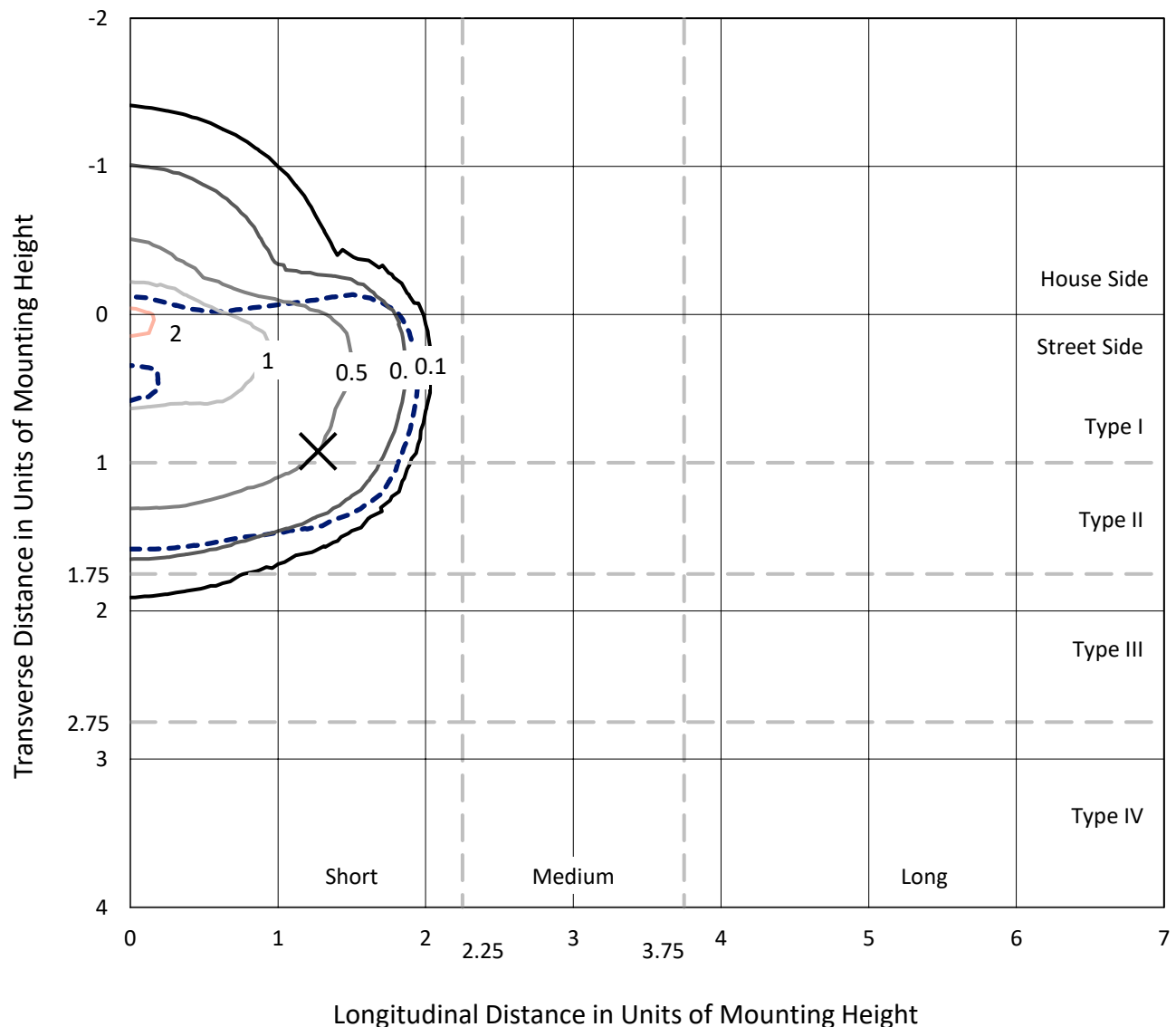
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P526440  
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## Iso-Footcandle Lines of Horizontal Illumination

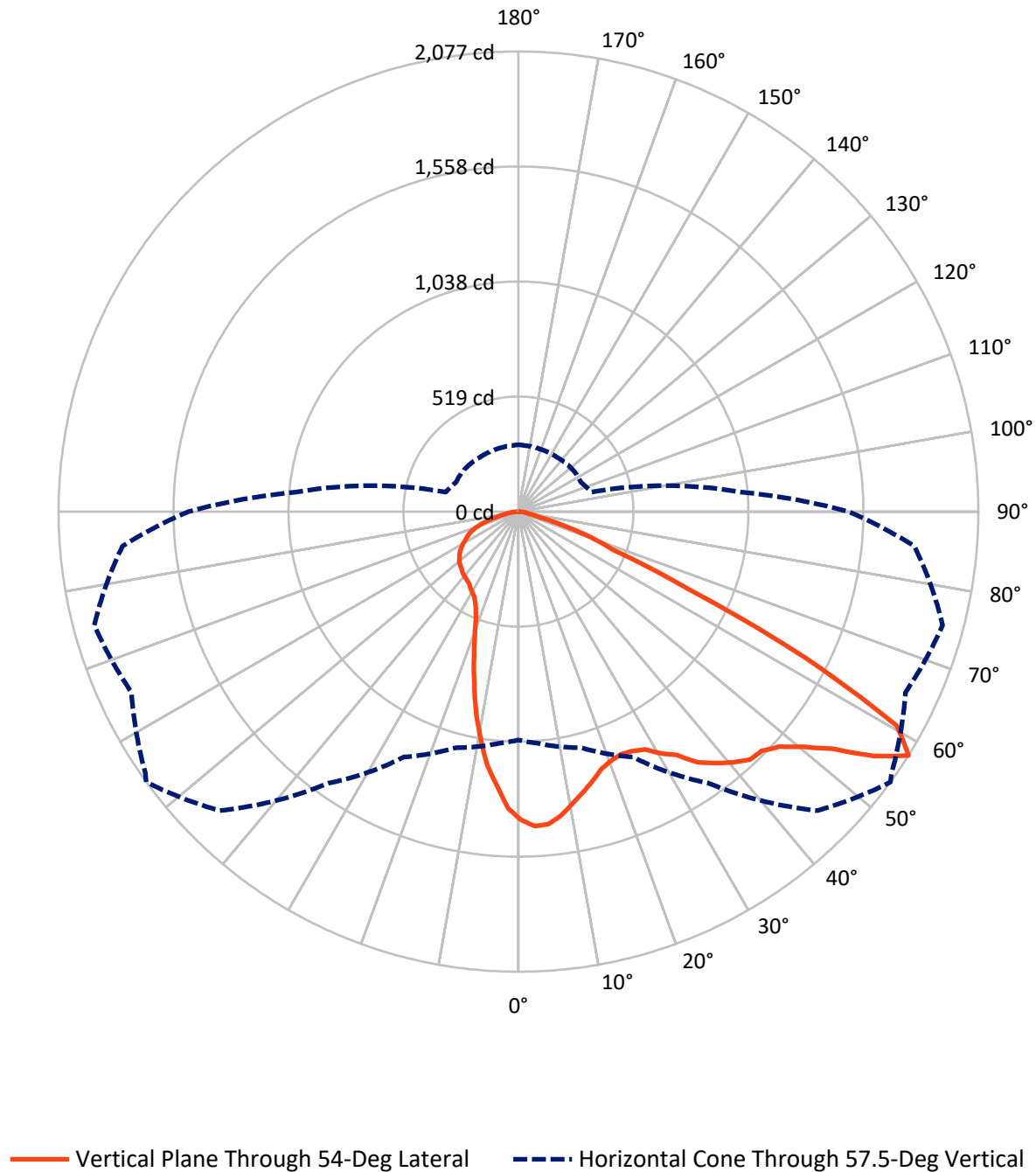
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Short - N/A

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CATALOG NUMBER: GLAN-SA1B-827-U-SL3-GRSWH

## Luminous Intensity Polar Plot



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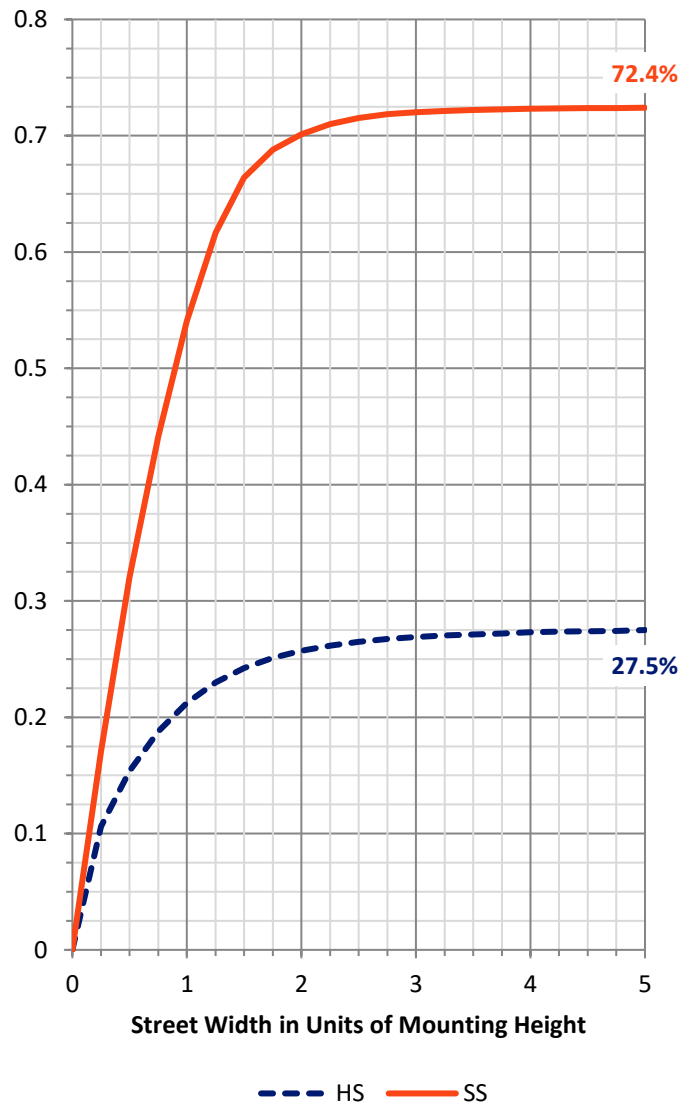
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 990.7    | 0.0    | 990.7  |
|                    | % Fixture | 27.7     | 0.0    | 27.7   |
| <b>Street Side</b> | Lumens    | 2590.3   | 0.0    | 2590.3 |
|                    | % Fixture | 72.3     | 0.0    | 72.3   |
| <b>Total</b>       | Lumens    | 3581.0   | 0.0    | 3581.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 120.0  | 3.4       |
| 10°-20°   | 277.9  | 7.8       |
| 20°-30°   | 390.5  | 10.9      |
| 30°-40°   | 545.9  | 15.2      |
| 40°-50°   | 739.1  | 20.6      |
| 50°-60°   | 900.2  | 25.1      |
| 60°-70°   | 468.9  | 13.1      |
| 70°-80°   | 120.1  | 3.4       |
| 80°-90°   | 18.3   | 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°    | 3581.0 | 100.0     |
| 0°-180°   | 3581.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P526440

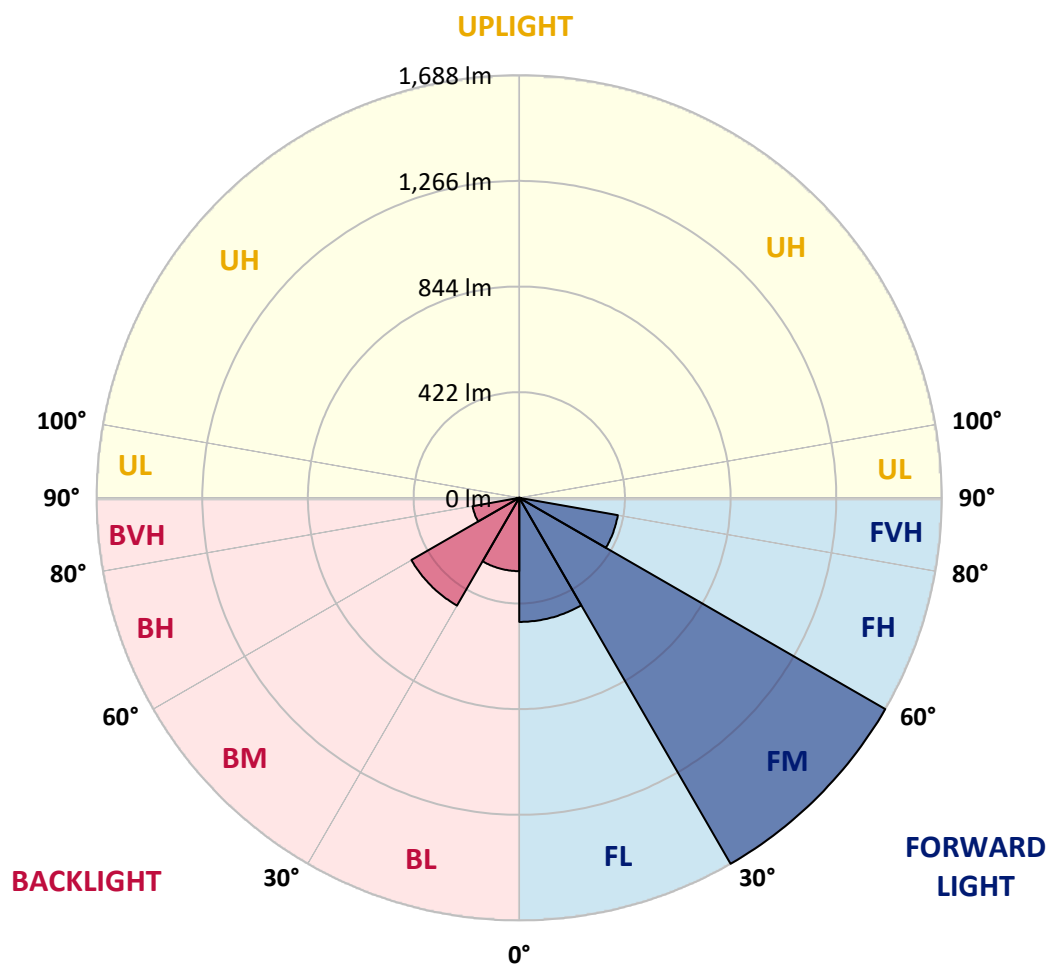
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 495.7  | 13.8      |                         |      |        |
| FM   | (30°-60°)   | 1688.0 | 47.1      |                         |      |        |
| FH   | (60°-80°)   | 399.7  | 11.2      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 6.9    | 0.2       |                         |      | G0/10  |
| BL   | (0°-30°)    | 292.8  | 8.2       | B1/500                  |      |        |
| BM   | (30°-60°)   | 497.2  | 13.9      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 189.3  | 5.3       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 11.4   | 0.3       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G1**

Type II Short





REPORT NUMBER: P526440

CATALOG NUMBER: GLAN-SA1B-827-U-SL3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 |
| 2.5°  | 1431.5 | 1426.0 | 1426.9 | 1434.2 | 1425.0 | 1421.4 | 1421.4 | 1403.4 | 1404.8 | 1392.4 | 1389.1 |
| 5°    | 1398.3 | 1385.4 | 1394.2 | 1405.2 | 1407.1 | 1410.8 | 1416.7 | 1412.1 | 1399.3 | 1385.9 | 1364.3 |
| 7.5°  | 1311.8 | 1323.3 | 1326.5 | 1334.4 | 1350.9 | 1366.1 | 1385.0 | 1372.1 | 1371.6 | 1358.3 | 1345.4 |
| 10°   | 1235.9 | 1229.0 | 1246.4 | 1258.0 | 1285.6 | 1310.9 | 1339.9 | 1338.5 | 1345.4 | 1330.2 | 1308.1 |
| 12.5° | 1160.4 | 1154.8 | 1163.1 | 1189.4 | 1228.0 | 1264.9 | 1299.4 | 1286.5 | 1323.3 | 1320.5 | 1273.1 |
| 15°   | 1080.3 | 1084.4 | 1096.4 | 1120.8 | 1171.4 | 1215.6 | 1259.3 | 1259.8 | 1292.5 | 1303.5 | 1240.0 |
| 17.5° | 1024.1 | 1019.5 | 1034.7 | 1071.1 | 1116.2 | 1169.1 | 1218.8 | 1229.0 | 1279.1 | 1285.6 | 1229.9 |
| 20°   | 982.2  | 988.7  | 1008.5 | 1026.9 | 1078.9 | 1142.9 | 1199.0 | 1202.7 | 1276.4 | 1293.9 | 1213.8 |
| 22.5° | 972.1  | 968.4  | 974.9  | 1004.8 | 1047.6 | 1117.1 | 1188.4 | 1202.3 | 1275.9 | 1291.1 | 1183.4 |
| 25°   | 961.5  | 973.5  | 973.0  | 1003.0 | 1034.3 | 1096.4 | 1197.2 | 1212.4 | 1300.3 | 1305.4 | 1187.5 |
| 27.5° | 985.5  | 984.1  | 997.0  | 999.3  | 1037.9 | 1101.9 | 1215.6 | 1227.1 | 1340.8 | 1336.7 | 1190.8 |
| 30°   | 1009.4 | 1002.5 | 1010.3 | 1037.5 | 1055.4 | 1133.7 | 1266.2 | 1265.3 | 1393.3 | 1390.5 | 1200.9 |
| 32.5° | 1038.9 | 1035.6 | 1040.7 | 1064.6 | 1095.0 | 1176.0 | 1309.0 | 1336.2 | 1446.7 | 1464.2 | 1235.9 |
| 35°   | 1044.4 | 1057.7 | 1069.7 | 1101.9 | 1145.2 | 1244.6 | 1389.6 | 1412.1 | 1508.3 | 1563.1 | 1302.6 |
| 37.5° | 1079.4 | 1084.4 | 1112.5 | 1169.6 | 1209.2 | 1336.2 | 1440.7 | 1455.0 | 1564.5 | 1626.6 | 1373.0 |
| 40°   | 1116.6 | 1122.6 | 1165.0 | 1224.8 | 1279.1 | 1396.0 | 1488.6 | 1493.2 | 1582.5 | 1675.4 | 1419.1 |
| 42.5° | 1167.3 | 1172.8 | 1214.7 | 1289.7 | 1362.4 | 1447.1 | 1530.9 | 1536.0 | 1581.1 | 1731.6 | 1492.2 |
| 45°   | 1219.7 | 1233.1 | 1282.3 | 1367.5 | 1432.9 | 1507.0 | 1540.6 | 1561.3 | 1594.0 | 1781.8 | 1551.6 |
| 47.5° | 1293.4 | 1305.8 | 1346.3 | 1429.6 | 1506.0 | 1559.4 | 1585.2 | 1605.5 | 1624.8 | 1825.5 | 1589.8 |
| 50°   | 1371.6 | 1373.9 | 1423.2 | 1498.7 | 1554.8 | 1618.8 | 1668.5 | 1675.4 | 1665.3 | 1876.1 | 1654.7 |
| 52.5° | 1429.2 | 1436.5 | 1474.7 | 1548.4 | 1632.2 | 1710.9 | 1779.0 | 1786.4 | 1766.6 | 1895.0 | 1676.8 |
| 55°   | 1333.9 | 1329.8 | 1391.9 | 1489.9 | 1684.2 | 1848.0 | 1947.0 | 1952.5 | 1840.2 | 1953.4 | 1749.1 |
| 57.5° | 1031.0 | 1050.8 | 1103.8 | 1222.0 | 1496.4 | 1908.8 | 2076.8 | 2057.0 | 1928.6 | 1982.9 | 1795.1 |
| 60°   | 749.3  | 744.7  | 780.2  | 859.3  | 1127.7 | 1645.0 | 1963.6 | 1983.8 | 1856.3 | 1787.3 | 1480.3 |
| 62.5° | 610.3  | 603.9  | 606.7  | 609.4  | 727.7  | 1091.8 | 1453.6 | 1453.1 | 1429.6 | 1284.6 | 998.4  |
| 65°   | 487.9  | 503.1  | 504.5  | 525.2  | 540.4  | 652.2  | 842.3  | 887.4  | 772.8  | 633.8  | 459.8  |
| 67.5° | 367.8  | 362.2  | 380.7  | 454.3  | 482.8  | 470.9  | 459.8  | 464.9  | 330.5  | 238.4  | 224.6  |
| 70°   | 216.8  | 214.5  | 236.6  | 316.7  | 397.7  | 374.2  | 346.6  | 347.1  | 226.9  | 166.6  | 185.5  |
| 72.5° | 118.8  | 118.3  | 122.9  | 160.6  | 226.0  | 234.7  | 208.0  | 214.5  | 135.3  | 134.9  | 145.0  |
| 75°   | 66.3   | 64.9   | 63.5   | 70.9   | 81.5   | 86.1   | 87.9   | 88.8   | 93.0   | 104.0  | 108.2  |
| 77.5° | 24.4   | 23.5   | 23.5   | 27.2   | 34.5   | 43.3   | 54.8   | 55.7   | 65.8   | 75.5   | 79.6   |
| 80°   | 8.3    | 9.2    | 12.4   | 17.0   | 23.0   | 30.8   | 37.3   | 38.2   | 46.5   | 52.9   | 54.3   |
| 82.5° | 5.1    | 5.5    | 8.3    | 12.0   | 16.6   | 21.6   | 27.6   | 28.1   | 34.5   | 38.7   | 40.5   |
| 85°   | 2.3    | 2.8    | 4.6    | 7.4    | 10.6   | 14.3   | 14.7   | 14.7   | 14.3   | 14.7   | 13.8   |
| 87.5° | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 1.4    | 1.8    | 1.4    | 2.3    | 2.8    | 2.8    |
| 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: P526440

CATALOG NUMBER: GLAN-SA1B-827-U-SL3-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 |
| 2.5°  | 1379.5 | 1374.4 | 1358.8 | 1344.9 | 1340.8 | 1322.4 | 1295.2 | 1298.5 | 1278.7 | 1287.9 | 1278.2 |
| 5°    | 1360.6 | 1343.6 | 1303.5 | 1286.5 | 1241.8 | 1221.6 | 1207.8 | 1173.3 | 1157.1 | 1153.9 | 1140.1 |
| 7.5°  | 1312.3 | 1301.7 | 1251.5 | 1205.5 | 1158.1 | 1117.6 | 1065.6 | 1030.1 | 1004.8 | 997.9  | 977.6  |
| 10°   | 1274.1 | 1250.6 | 1181.1 | 1111.1 | 1043.5 | 973.0  | 905.4  | 852.4  | 826.7  | 796.7  | 786.6  |
| 12.5° | 1236.3 | 1200.9 | 1107.0 | 1017.2 | 929.8  | 840.9  | 759.0  | 694.6  | 638.4  | 625.1  | 620.5  |
| 15°   | 1212.8 | 1151.2 | 1040.7 | 932.5  | 808.3  | 692.3  | 610.3  | 568.0  | 533.5  | 519.2  | 529.3  |
| 17.5° | 1182.0 | 1110.2 | 977.2  | 833.1  | 696.4  | 589.6  | 521.0  | 494.8  | 482.4  | 483.8  | 479.6  |
| 20°   | 1143.3 | 1071.5 | 893.9  | 742.9  | 596.5  | 511.4  | 472.2  | 462.6  | 464.4  | 467.6  | 466.3  |
| 22.5° | 1115.7 | 1024.6 | 833.6  | 650.8  | 515.5  | 468.1  | 452.0  | 445.1  | 451.1  | 453.8  | 451.5  |
| 25°   | 1094.6 | 984.5  | 760.4  | 569.4  | 468.6  | 443.7  | 436.3  | 435.9  | 445.1  | 448.8  | 446.5  |
| 27.5° | 1075.2 | 947.3  | 687.7  | 507.2  | 437.3  | 424.8  | 422.5  | 428.1  | 434.0  | 437.7  | 441.0  |
| 30°   | 1063.7 | 918.7  | 619.5  | 455.2  | 421.6  | 415.6  | 411.5  | 416.6  | 419.8  | 423.5  | 421.6  |
| 32.5° | 1074.8 | 898.5  | 553.7  | 425.8  | 408.7  | 402.7  | 408.3  | 405.0  | 410.6  | 413.8  | 408.7  |
| 35°   | 1109.3 | 880.5  | 506.8  | 410.1  | 394.0  | 396.3  | 397.2  | 395.8  | 398.1  | 395.4  | 401.4  |
| 37.5° | 1143.3 | 874.1  | 463.5  | 396.8  | 387.1  | 387.1  | 386.2  | 383.4  | 388.0  | 387.1  | 389.9  |
| 40°   | 1186.6 | 878.2  | 426.7  | 382.5  | 380.7  | 379.7  | 376.1  | 375.6  | 373.7  | 374.2  | 375.1  |
| 42.5° | 1224.4 | 887.4  | 405.5  | 373.3  | 374.7  | 376.5  | 369.6  | 364.1  | 366.4  | 361.8  | 361.8  |
| 45°   | 1264.4 | 895.7  | 386.6  | 366.8  | 365.5  | 365.0  | 359.5  | 356.3  | 354.4  | 354.9  | 359.0  |
| 47.5° | 1327.5 | 907.7  | 372.4  | 358.1  | 359.0  | 352.1  | 350.7  | 346.6  | 348.4  | 351.2  | 351.7  |
| 50°   | 1372.1 | 933.0  | 361.3  | 348.0  | 351.2  | 346.6  | 338.3  | 336.5  | 336.5  | 341.1  | 340.1  |
| 52.5° | 1403.4 | 968.4  | 350.7  | 336.9  | 338.3  | 334.6  | 331.9  | 327.7  | 325.0  | 331.4  | 334.6  |
| 55°   | 1499.1 | 1027.4 | 348.0  | 327.7  | 327.3  | 323.6  | 318.5  | 314.4  | 313.0  | 313.9  | 320.4  |
| 57.5° | 1489.9 | 1008.9 | 339.2  | 311.6  | 310.7  | 305.6  | 300.6  | 299.2  | 298.7  | 299.6  | 301.5  |
| 60°   | 1209.6 | 745.2  | 302.9  | 293.2  | 291.8  | 290.9  | 285.8  | 280.3  | 277.6  | 280.3  | 278.0  |
| 62.5° | 800.4  | 498.9  | 267.0  | 271.1  | 272.0  | 269.7  | 261.4  | 255.9  | 256.8  | 260.1  | 255.0  |
| 65°   | 393.1  | 293.2  | 242.1  | 253.2  | 254.1  | 247.6  | 239.8  | 233.4  | 230.1  | 232.9  | 230.6  |
| 67.5° | 224.6  | 224.2  | 221.9  | 233.4  | 232.9  | 226.5  | 214.0  | 208.5  | 203.0  | 203.9  | 202.5  |
| 70°   | 190.6  | 194.2  | 198.8  | 205.7  | 205.3  | 197.9  | 183.2  | 179.0  | 171.2  | 170.3  | 168.0  |
| 72.5° | 150.1  | 156.5  | 166.6  | 171.7  | 167.5  | 158.3  | 148.7  | 141.8  | 134.9  | 130.7  | 132.1  |
| 75°   | 111.4  | 120.6  | 126.1  | 129.3  | 122.9  | 117.8  | 110.0  | 101.7  | 93.4   | 89.8   | 88.4   |
| 77.5° | 81.0   | 83.8   | 88.8   | 91.1   | 87.0   | 81.9   | 77.3   | 69.0   | 61.2   | 56.2   | 54.8   |
| 80°   | 56.6   | 58.5   | 62.1   | 62.1   | 62.1   | 59.8   | 53.9   | 45.6   | 40.5   | 35.9   | 35.0   |
| 82.5° | 39.6   | 41.4   | 45.1   | 43.3   | 42.8   | 40.0   | 36.4   | 29.9   | 24.4   | 21.2   | 20.3   |
| 85°   | 13.8   | 15.2   | 18.4   | 22.1   | 23.5   | 23.0   | 20.7   | 16.6   | 12.9   | 10.6   | 9.7    |
| 87.5° | 3.2    | 3.2    | 3.7    | 3.2    | 3.2    | 3.7    | 3.2    | 3.2    | 3.2    | 2.3    | 1.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)