

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: P451548

Luminaire Tested: **GLAN-SA2B-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9305 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

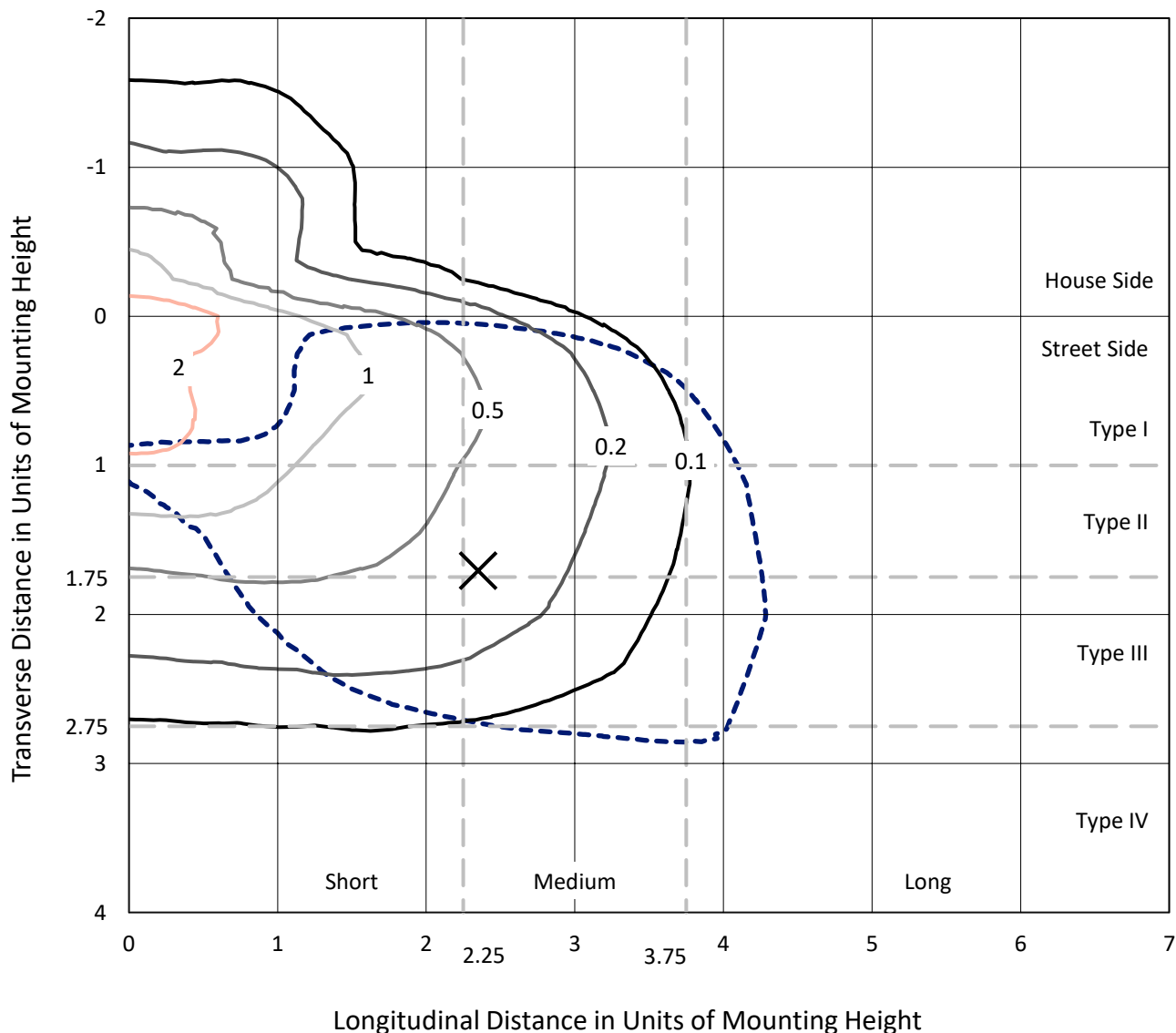
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451548
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Iso-Footcandle Lines of Horizontal Illumination

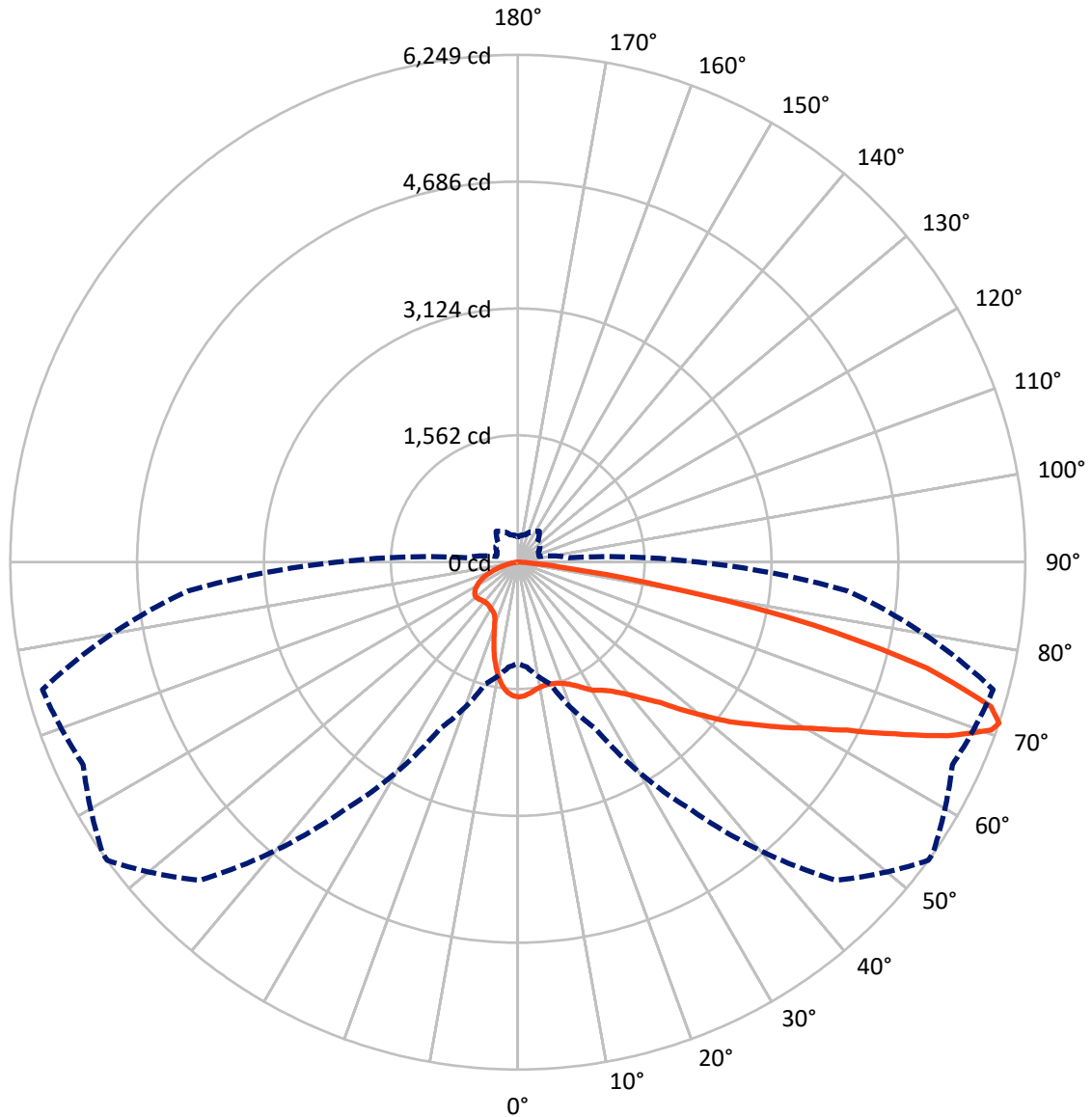
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: GLAN-SA2B-830-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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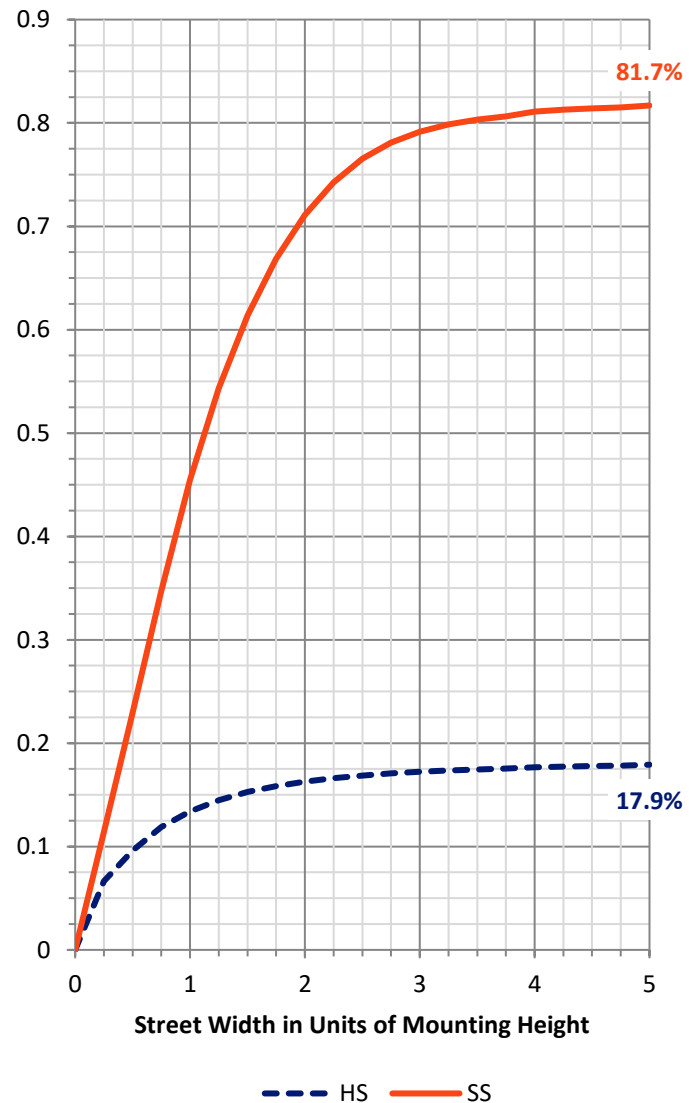
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1680.0 | 0.0 | 1680.0 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 7625.0 | 0.0 | 7625.0 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 9305.0 | 0.0 | 9305.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 147.9 | 1.6 |
| 10°-20° | 390.6 | 4.2 |
| 20°-30° | 650.4 | 7.0 |
| 30°-40° | 961.8 | 10.3 |
| 40°-50° | 1354.7 | 14.6 |
| 50°-60° | 1814.0 | 19.5 |
| 60°-70° | 2286.4 | 24.6 |
| 70°-80° | 1561.6 | 16.8 |
| 80°-90° | 137.3 | 1.5 |
| 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° | 9305.0 | 100.0 |
| 0°-180° | 9305.0 | 100.0 |



REPORT NUMBER: P451548

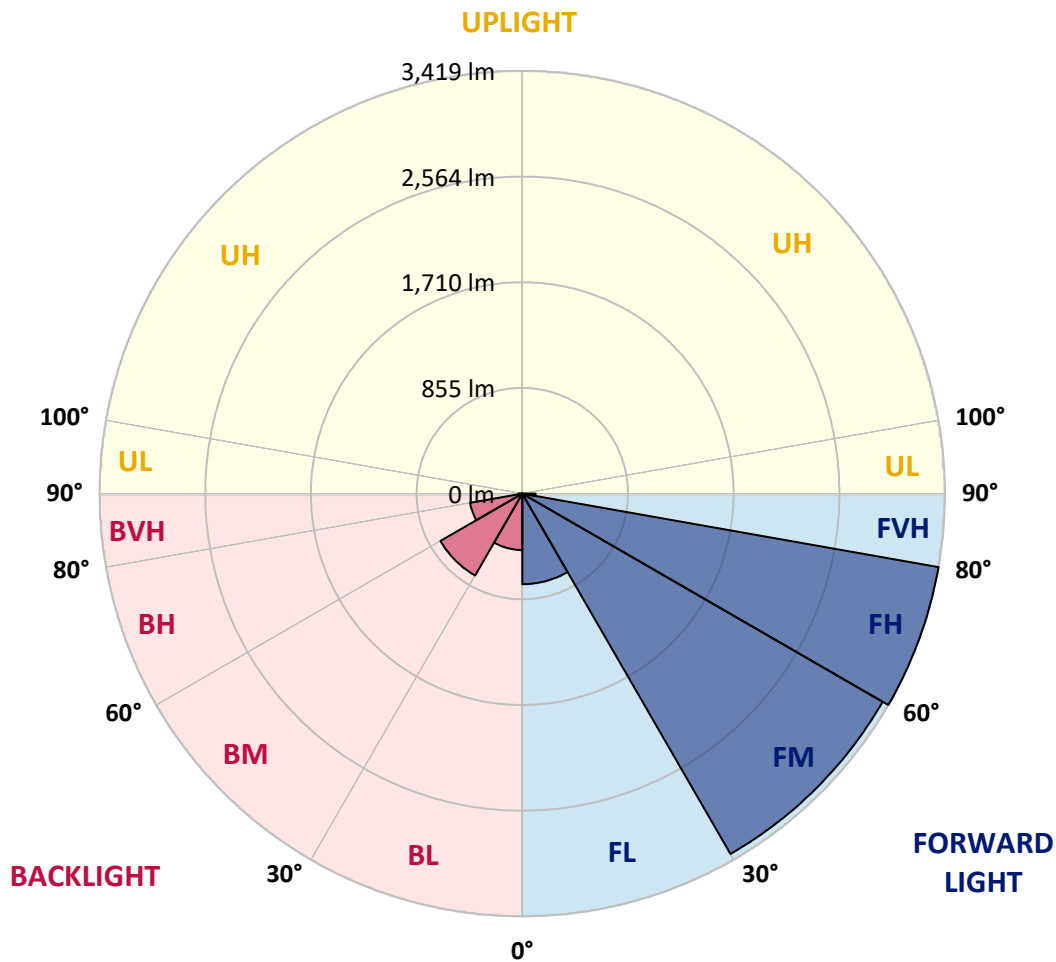
CATALOG NUMBER: GLAN-SA2B-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 732.5 | 7.9 | | | |
| FM (30°-60°) | 3366.2 | 36.2 | | | |
| FH (60°-80°) | 3419.0 | 36.7 | | | G2/5000 |
| FVH (80°-90°) | 107.3 | 1.2 | | | G2/225 |
| BL (0°-30°) | 456.6 | 4.9 | B1/500 | | |
| BM (30°-60°) | 764.3 | 8.2 | B1/1000 | | |
| BH (60°-80°) | 429.1 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 30.0 | 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-G2

Type IV Medium





REPORT NUMBER: P451548

CATALOG NUMBER: GLAN-SA2B-830-U-T3R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 |
| 2.5° | 1603.9 | 1611.4 | 1613.4 | 1618.4 | 1629.0 | 1637.5 | 1646.1 | 1645.1 | 1657.1 | 1662.2 | 1666.7 |
| 5° | 1532.5 | 1534.5 | 1542.0 | 1552.1 | 1570.7 | 1594.3 | 1617.4 | 1617.9 | 1647.6 | 1671.2 | 1682.8 |
| 7.5° | 1480.2 | 1486.7 | 1491.8 | 1502.3 | 1521.9 | 1547.6 | 1584.3 | 1587.3 | 1640.0 | 1686.8 | 1711.4 |
| 10° | 1446.0 | 1453.6 | 1459.1 | 1472.2 | 1491.8 | 1520.4 | 1560.1 | 1565.7 | 1634.5 | 1711.4 | 1754.6 |
| 12.5° | 1414.9 | 1422.4 | 1427.4 | 1444.5 | 1470.2 | 1505.3 | 1550.1 | 1556.6 | 1636.5 | 1740.1 | 1801.9 |
| 15° | 1434.0 | 1440.0 | 1438.0 | 1443.0 | 1460.1 | 1500.3 | 1554.1 | 1560.6 | 1644.1 | 1767.7 | 1848.6 |
| 17.5° | 1518.9 | 1523.9 | 1507.4 | 1488.3 | 1480.2 | 1509.9 | 1566.7 | 1573.7 | 1659.1 | 1796.4 | 1896.4 |
| 20° | 1644.1 | 1657.6 | 1621.4 | 1578.7 | 1540.0 | 1544.0 | 1592.8 | 1600.3 | 1680.3 | 1825.0 | 1945.1 |
| 22.5° | 1806.9 | 1817.0 | 1772.7 | 1702.4 | 1631.0 | 1594.3 | 1632.0 | 1636.5 | 1711.9 | 1862.2 | 1998.4 |
| 25° | 1998.4 | 2004.4 | 1943.1 | 1852.7 | 1749.6 | 1680.3 | 1685.8 | 1693.8 | 1764.2 | 1904.4 | 2045.7 |
| 27.5° | 2184.4 | 2203.5 | 2132.6 | 2022.0 | 1886.3 | 1770.7 | 1759.7 | 1764.7 | 1821.0 | 1928.0 | 2078.3 |
| 30° | 2405.0 | 2403.5 | 2328.6 | 2200.5 | 2026.6 | 1869.2 | 1829.5 | 1828.5 | 1851.6 | 1939.6 | 2102.0 |
| 32.5° | 2580.9 | 2601.6 | 2528.2 | 2388.4 | 2186.9 | 1971.3 | 1877.8 | 1875.8 | 1875.3 | 1959.7 | 2137.1 |
| 35° | 2781.0 | 2784.0 | 2716.7 | 2575.9 | 2360.3 | 2099.4 | 1945.1 | 1935.1 | 1923.5 | 2002.9 | 2184.9 |
| 37.5° | 2959.9 | 2974.0 | 2912.2 | 2754.4 | 2530.7 | 2232.6 | 2037.6 | 2031.1 | 1995.9 | 2077.8 | 2261.3 |
| 40° | 3099.6 | 3110.2 | 3073.0 | 2922.7 | 2698.6 | 2376.4 | 2155.2 | 2143.2 | 2100.4 | 2200.5 | 2363.3 |
| 42.5° | 3145.4 | 3167.0 | 3181.6 | 3107.7 | 2891.6 | 2546.8 | 2300.0 | 2284.9 | 2252.2 | 2386.4 | 2480.9 |
| 45° | 3148.9 | 3183.1 | 3260.0 | 3263.5 | 3085.6 | 2750.8 | 2468.9 | 2458.3 | 2455.8 | 2624.7 | 2646.3 |
| 47.5° | 3122.3 | 3156.9 | 3286.1 | 3356.0 | 3258.5 | 2956.9 | 2712.6 | 2696.0 | 2697.6 | 2919.2 | 2831.8 |
| 50° | 3057.9 | 3099.1 | 3256.0 | 3415.3 | 3393.7 | 3171.0 | 2970.0 | 2964.4 | 2995.6 | 3255.5 | 3024.3 |
| 52.5° | 2936.8 | 2986.6 | 3224.8 | 3452.5 | 3494.2 | 3355.5 | 3262.5 | 3246.9 | 3325.8 | 3620.4 | 3234.9 |
| 55° | 2601.6 | 2676.4 | 3110.7 | 3473.1 | 3589.7 | 3531.9 | 3525.9 | 3554.0 | 3658.6 | 4018.4 | 3466.6 |
| 57.5° | 2426.6 | 2482.9 | 2862.9 | 3476.6 | 3710.3 | 3737.0 | 3833.5 | 3840.5 | 4023.5 | 4441.1 | 3728.4 |
| 60° | 2331.1 | 2380.9 | 2727.2 | 3453.5 | 3878.7 | 3990.8 | 4148.1 | 4173.2 | 4379.8 | 4899.0 | 3999.8 |
| 62.5° | 2247.7 | 2290.4 | 2645.8 | 3373.6 | 4068.7 | 4367.3 | 4555.7 | 4567.8 | 4784.4 | 5404.7 | 4267.7 |
| 65° | 2051.2 | 2099.9 | 2481.9 | 3293.7 | 4232.6 | 4837.7 | 5096.6 | 5082.5 | 5215.2 | 5840.9 | 4435.6 |
| 67.5° | 1786.3 | 1848.1 | 2175.8 | 3017.7 | 4313.5 | 5351.9 | 5705.7 | 5688.1 | 5640.4 | 6126.9 | 4483.9 |
| 70° | 1448.0 | 1481.2 | 1784.3 | 2540.7 | 3990.3 | 5621.8 | 6186.7 | 6168.1 | 5903.8 | 6164.6 | 4255.7 |
| 71° | 1246.0 | 1297.8 | 1553.6 | 2256.8 | 3721.4 | 5539.4 | 6248.6 | 6243.5 | 5904.3 | 6060.6 | 4083.8 |
| 72.5° | 972.6 | 1004.2 | 1230.4 | 1748.6 | 3163.0 | 5070.9 | 6095.8 | 6114.9 | 5776.1 | 5771.6 | 3729.4 |
| 75° | 615.2 | 629.3 | 772.0 | 1029.4 | 1735.5 | 3591.2 | 5203.6 | 5255.4 | 5128.7 | 4724.1 | 2773.5 |
| 77.5° | 357.4 | 375.5 | 462.4 | 606.7 | 749.9 | 1949.2 | 3723.4 | 3779.7 | 3563.6 | 2601.1 | 1135.4 |
| 80° | 208.1 | 228.2 | 304.6 | 352.3 | 344.3 | 723.3 | 1895.9 | 1991.9 | 1543.0 | 656.9 | 318.7 |
| 82.5° | 115.6 | 129.2 | 214.1 | 214.6 | 183.5 | 236.2 | 596.6 | 624.3 | 440.3 | 264.9 | 130.2 |
| 85° | 83.9 | 95.0 | 138.2 | 125.2 | 88.0 | 101.5 | 207.6 | 217.6 | 177.9 | 111.6 | 42.2 |
| 87.5° | 29.7 | 42.2 | 75.9 | 60.3 | 24.1 | 21.1 | 59.8 | 48.8 | 45.2 | 31.2 | 9.5 |
| 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: P451548
 CATALOG NUMBER: GLAN-SA2B-830-U-T3R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 | 1660.1 |
| 2.5° | 1669.2 | 1670.2 | 1665.2 | 1656.1 | 1647.1 | 1635.5 | 1622.5 | 1612.4 | 1607.9 | 1607.4 | 1606.9 |
| 5° | 1687.3 | 1689.8 | 1670.7 | 1642.6 | 1611.4 | 1573.2 | 1540.5 | 1503.3 | 1493.8 | 1478.7 | 1483.2 |
| 7.5° | 1716.4 | 1714.9 | 1677.2 | 1617.4 | 1544.5 | 1463.6 | 1395.3 | 1355.6 | 1314.3 | 1302.8 | 1303.3 |
| 10° | 1758.2 | 1748.6 | 1677.2 | 1566.2 | 1444.5 | 1324.4 | 1228.9 | 1168.6 | 1135.9 | 1108.8 | 1098.7 |
| 12.5° | 1802.4 | 1778.3 | 1661.2 | 1494.3 | 1315.9 | 1168.6 | 1066.1 | 984.6 | 963.5 | 941.4 | 941.9 |
| 15° | 1844.6 | 1804.4 | 1629.5 | 1393.3 | 1177.1 | 1002.2 | 902.7 | 853.9 | 847.4 | 849.9 | 849.4 |
| 17.5° | 1882.8 | 1823.0 | 1581.2 | 1280.7 | 1015.3 | 859.5 | 806.7 | 810.2 | 827.8 | 840.4 | 841.9 |
| 20° | 1921.5 | 1834.1 | 1509.4 | 1129.9 | 862.5 | 773.0 | 775.0 | 802.7 | 829.3 | 846.4 | 848.9 |
| 22.5° | 1958.2 | 1839.1 | 1424.9 | 984.1 | 751.9 | 736.3 | 766.0 | 795.6 | 821.8 | 838.4 | 840.9 |
| 25° | 1982.3 | 1827.5 | 1305.3 | 831.8 | 697.6 | 723.3 | 754.4 | 779.6 | 801.7 | 818.8 | 822.8 |
| 27.5° | 1988.9 | 1790.3 | 1157.0 | 708.7 | 672.5 | 710.7 | 739.4 | 757.9 | 775.0 | 791.1 | 794.1 |
| 30° | 1985.3 | 1735.5 | 994.2 | 636.3 | 657.9 | 696.1 | 718.2 | 731.8 | 752.4 | 765.0 | 767.5 |
| 32.5° | 1979.8 | 1671.7 | 824.3 | 597.6 | 645.9 | 682.6 | 695.6 | 707.7 | 707.2 | 702.2 | 705.7 |
| 35° | 1981.8 | 1595.3 | 686.6 | 574.5 | 635.3 | 672.5 | 683.6 | 668.5 | 625.3 | 623.2 | 621.2 |
| 37.5° | 1992.4 | 1519.9 | 586.6 | 558.4 | 629.8 | 671.0 | 677.0 | 607.7 | 569.5 | 551.9 | 547.4 |
| 40° | 2019.5 | 1432.0 | 520.7 | 546.3 | 629.3 | 682.6 | 647.4 | 577.0 | 503.6 | 469.4 | 466.9 |
| 42.5° | 2055.7 | 1345.5 | 480.5 | 538.8 | 635.3 | 700.1 | 635.3 | 533.8 | 453.9 | 433.8 | 430.7 |
| 45° | 2109.5 | 1246.5 | 458.4 | 535.3 | 644.4 | 706.7 | 631.3 | 502.1 | 433.8 | 417.7 | 417.7 |
| 47.5° | 2170.3 | 1152.0 | 446.3 | 532.8 | 655.9 | 702.2 | 595.6 | 492.1 | 424.2 | 426.2 | 435.8 |
| 50° | 2230.6 | 1070.1 | 437.3 | 527.2 | 666.0 | 699.6 | 581.0 | 491.6 | 426.7 | 452.4 | 469.4 |
| 52.5° | 2300.5 | 1012.3 | 426.2 | 518.2 | 666.0 | 683.6 | 576.5 | 501.6 | 433.8 | 441.3 | 448.8 |
| 55° | 2384.9 | 994.2 | 412.1 | 498.6 | 653.9 | 643.4 | 574.0 | 516.2 | 438.8 | 421.2 | 424.2 |
| 57.5° | 2496.5 | 1023.3 | 398.6 | 474.0 | 626.3 | 601.6 | 573.0 | 520.2 | 427.2 | 412.7 | 409.6 |
| 60° | 2626.2 | 1081.1 | 394.6 | 448.8 | 588.6 | 565.9 | 567.0 | 508.7 | 411.1 | 396.1 | 398.6 |
| 62.5° | 2717.2 | 1115.8 | 392.0 | 429.7 | 547.4 | 526.7 | 552.4 | 494.6 | 404.1 | 391.0 | 393.6 |
| 65° | 2717.2 | 1073.6 | 368.9 | 400.6 | 494.1 | 479.5 | 534.8 | 477.0 | 395.1 | 380.0 | 377.5 |
| 67.5° | 2614.1 | 950.5 | 333.7 | 356.9 | 435.3 | 425.7 | 510.2 | 455.9 | 381.5 | 369.9 | 363.9 |
| 70° | 2345.7 | 720.8 | 289.5 | 305.6 | 360.9 | 369.4 | 478.5 | 427.2 | 358.9 | 344.8 | 335.7 |
| 71° | 2227.6 | 627.8 | 270.9 | 279.5 | 332.2 | 344.8 | 463.4 | 415.2 | 348.8 | 328.7 | 312.6 |
| 72.5° | 1999.9 | 528.8 | 242.8 | 246.3 | 284.0 | 306.6 | 431.7 | 392.0 | 329.7 | 301.1 | 283.0 |
| 75° | 1519.4 | 386.0 | 195.5 | 193.5 | 210.1 | 243.3 | 365.4 | 349.3 | 289.0 | 250.3 | 239.7 |
| 77.5° | 656.4 | 210.1 | 146.3 | 147.8 | 142.7 | 184.5 | 287.5 | 300.1 | 247.8 | 203.6 | 194.0 |
| 80° | 199.0 | 121.1 | 100.0 | 102.0 | 95.5 | 123.6 | 202.6 | 235.2 | 199.0 | 158.3 | 145.3 |
| 82.5° | 102.0 | 72.4 | 68.4 | 67.4 | 60.8 | 69.9 | 122.6 | 160.8 | 142.2 | 99.0 | 87.5 |
| 85° | 44.2 | 38.7 | 33.7 | 32.7 | 28.6 | 25.1 | 43.7 | 80.4 | 75.4 | 55.3 | 52.8 |
| 87.5° | 11.1 | 10.1 | 6.5 | 6.0 | 3.5 | 0.5 | 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 |

(END OF REPORT)