

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: P318587

Luminaire Tested: **GAN-SA3A-722-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-722-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10461 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

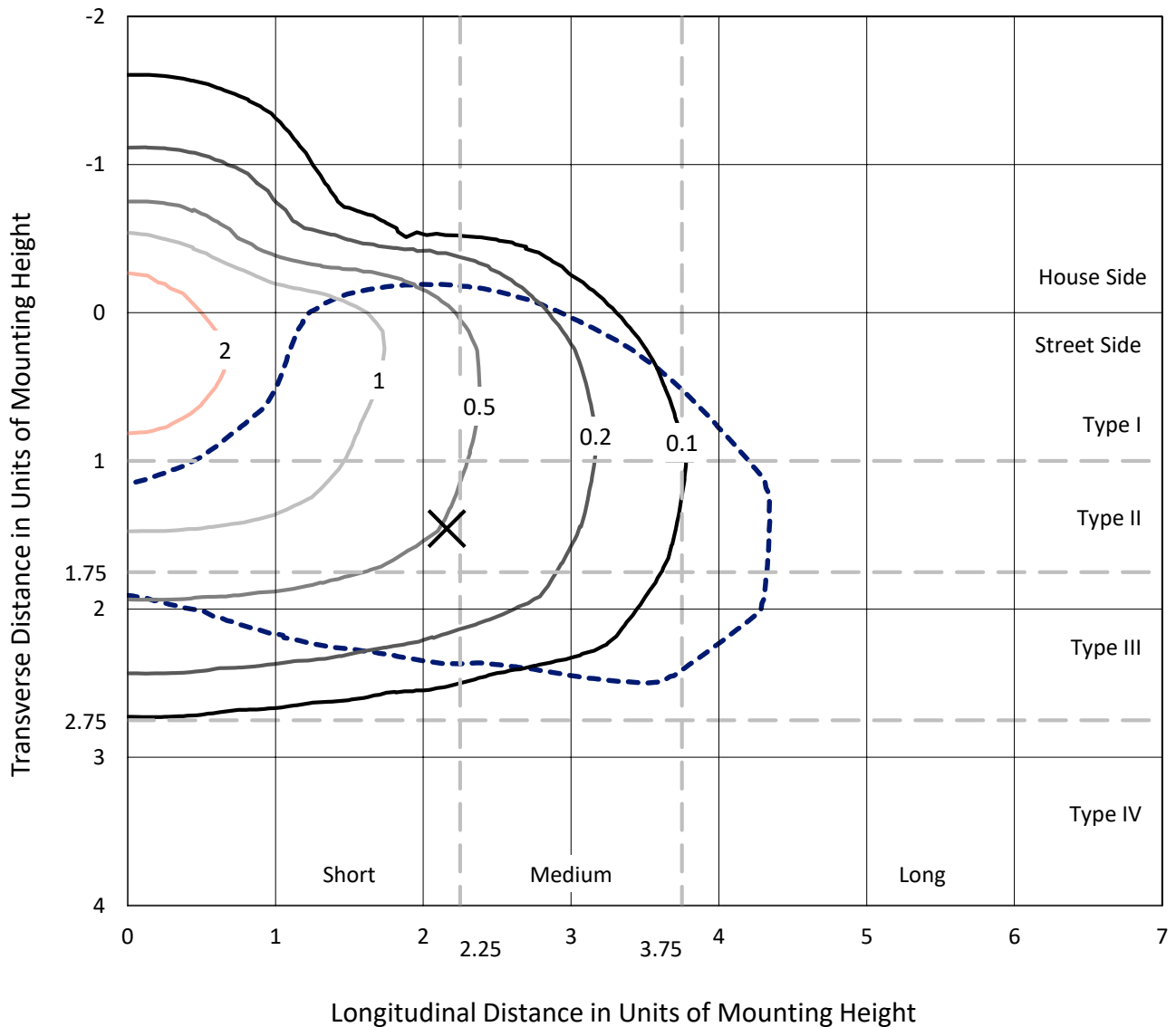
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318587
 CATALOG NUMBER: GAN-SA3A-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

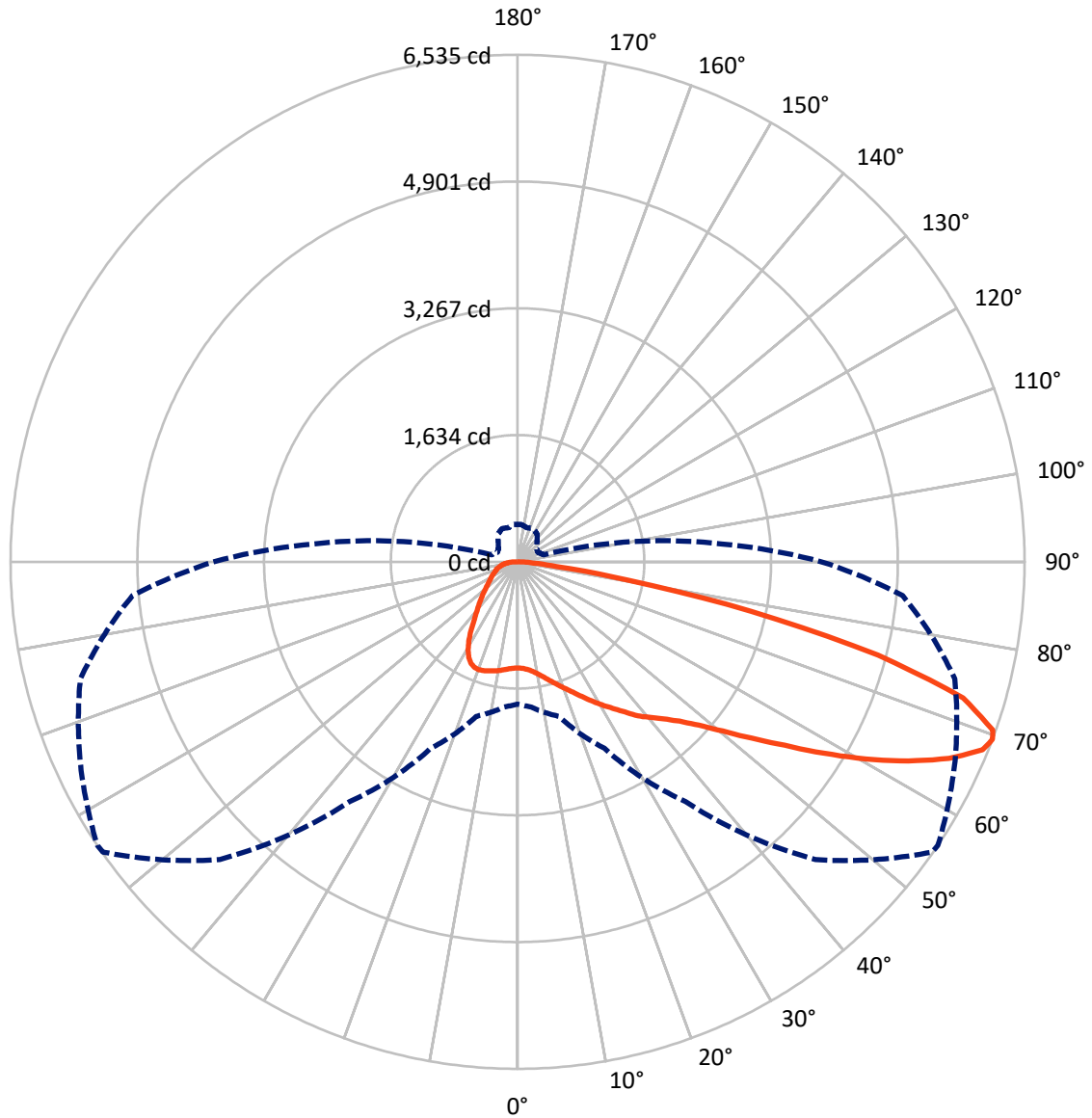
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

REPORT NUMBER: P318587
CATALOG NUMBER: GAN-SA3A-722-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P318587
 CATALOG NUMBER: GAN-SA3A-722-U-T3

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2329.6 | 0.0 | 2329.6 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 8131.4 | 0.0 | 8131.4 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 10461.0 | 0.0 | 10461.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 134.3 | 1.3 |
| 10°-20° | 431.9 | 4.1 |
| 20°-30° | 754.0 | 7.2 |
| 30°-40° | 1083.1 | 10.4 |
| 40°-50° | 1498.9 | 14.3 |
| 50°-60° | 2196.1 | 21.0 |
| 60°-70° | 2677.4 | 25.6 |
| 70°-80° | 1480.3 | 14.2 |
| 80°-90° | 205.0 | 2.0 |
| 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° | 10461.0 | 100.0 |
| 0°-180° | 10461.0 | 100.0 |

Coefficient of Utilization

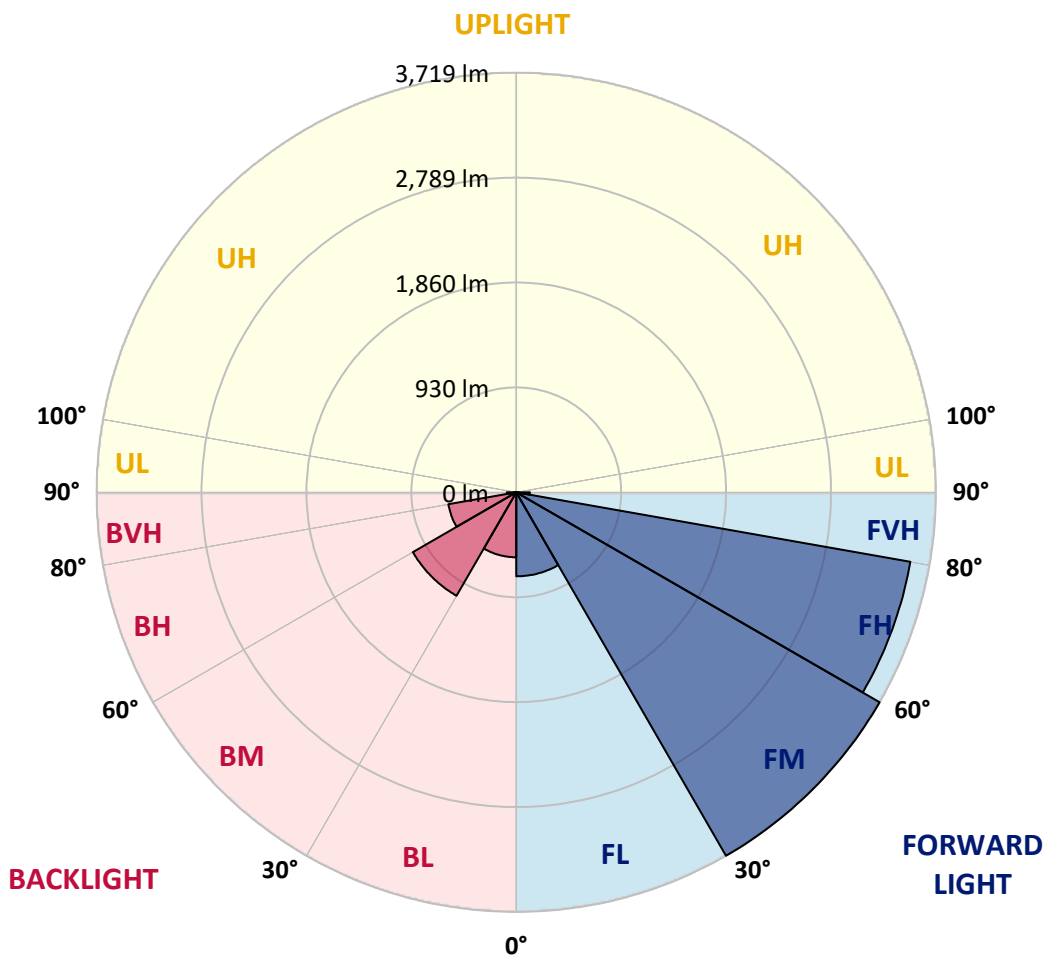


REPORT NUMBER: P318587
 CATALOG NUMBER: GAN-SA3A-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 744.5 | 7.1 | | | |
| FM (30°-60°) | 3719.3 | 35.6 | | | |
| FH (60°-80°) | 3546.8 | 33.9 | | | G2/5000 |
| FVH (80°-90°) | 120.8 | 1.2 | | | G2/225 |
| BL (0°-30°) | 575.7 | 5.5 | B2/1000 | | |
| BM (30°-60°) | 1058.8 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 610.9 | 5.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 84.3 | 0.8 | | | 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 III Short





REPORT NUMBER: P318587

CATALOG NUMBER: GAN-SA3A-722-U-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 |
| 2.5° | 1376.3 | 1377.7 | 1376.6 | 1379.5 | 1376.3 | 1378.4 | 1376.6 | 1376.6 | 1375.5 | 1372.3 | 1368.7 |
| 5° | 1397.9 | 1400.8 | 1399.0 | 1401.9 | 1397.9 | 1398.6 | 1395.4 | 1395.4 | 1392.1 | 1385.3 | 1378.1 |
| 7.5° | 1431.8 | 1435.0 | 1433.6 | 1436.4 | 1431.0 | 1431.0 | 1426.7 | 1426.4 | 1419.9 | 1408.7 | 1400.4 |
| 10° | 1472.1 | 1476.5 | 1475.0 | 1479.3 | 1475.0 | 1476.5 | 1472.1 | 1472.1 | 1463.5 | 1447.6 | 1437.2 |
| 12.5° | 1530.9 | 1536.3 | 1532.3 | 1531.9 | 1530.1 | 1533.0 | 1529.4 | 1528.7 | 1520.8 | 1499.2 | 1484.7 |
| 15° | 1609.4 | 1615.2 | 1606.9 | 1606.2 | 1596.1 | 1595.0 | 1595.0 | 1593.9 | 1588.9 | 1562.9 | 1539.2 |
| 17.5° | 1699.9 | 1701.7 | 1694.5 | 1682.9 | 1670.0 | 1661.7 | 1660.6 | 1663.5 | 1663.5 | 1633.2 | 1595.4 |
| 20° | 1788.5 | 1791.8 | 1786.0 | 1773.0 | 1756.5 | 1744.2 | 1735.6 | 1741.3 | 1741.0 | 1704.9 | 1651.2 |
| 22.5° | 1885.1 | 1892.7 | 1884.0 | 1867.5 | 1848.0 | 1834.3 | 1819.2 | 1824.2 | 1824.6 | 1780.2 | 1706.0 |
| 25° | 2010.2 | 2003.3 | 1997.9 | 1974.5 | 1946.7 | 1932.7 | 1918.6 | 1923.7 | 1922.2 | 1861.3 | 1762.6 |
| 27.5° | 2120.8 | 2122.2 | 2115.0 | 2090.2 | 2058.1 | 2027.1 | 2026.4 | 2029.6 | 2024.2 | 1945.7 | 1815.9 |
| 30° | 2249.5 | 2250.2 | 2240.1 | 2217.7 | 2182.8 | 2142.8 | 2133.4 | 2138.8 | 2127.3 | 2025.7 | 1872.1 |
| 32.5° | 2377.4 | 2381.0 | 2369.8 | 2342.8 | 2314.7 | 2266.0 | 2247.3 | 2250.9 | 2222.1 | 2107.5 | 1930.2 |
| 35° | 2489.5 | 2494.5 | 2490.9 | 2472.9 | 2442.3 | 2400.4 | 2378.1 | 2375.9 | 2340.3 | 2207.6 | 2006.9 |
| 37.5° | 2603.7 | 2608.4 | 2604.4 | 2589.3 | 2577.0 | 2532.7 | 2520.8 | 2520.8 | 2458.8 | 2310.0 | 2104.6 |
| 40° | 2721.2 | 2728.4 | 2723.7 | 2702.8 | 2692.4 | 2672.2 | 2643.7 | 2636.9 | 2569.8 | 2432.9 | 2263.9 |
| 42.5° | 2830.4 | 2839.7 | 2858.5 | 2846.2 | 2825.0 | 2827.9 | 2770.6 | 2766.9 | 2717.9 | 2614.5 | 2463.9 |
| 45° | 2985.3 | 2999.0 | 3030.7 | 3021.4 | 3017.0 | 3001.2 | 2933.1 | 2929.8 | 2911.1 | 2858.8 | 2712.2 |
| 47.5° | 3154.4 | 3173.1 | 3230.4 | 3232.2 | 3278.7 | 3248.8 | 3156.2 | 3145.0 | 3149.3 | 3151.5 | 3015.2 |
| 50° | 3310.0 | 3330.6 | 3424.6 | 3469.0 | 3578.5 | 3585.0 | 3436.9 | 3426.8 | 3443.7 | 3493.5 | 3368.4 |
| 52.5° | 3434.4 | 3460.3 | 3577.8 | 3714.7 | 3902.5 | 3955.8 | 3782.5 | 3774.9 | 3787.5 | 3873.3 | 3767.7 |
| 55° | 3525.5 | 3553.6 | 3681.6 | 3931.0 | 4230.8 | 4324.8 | 4180.3 | 4173.1 | 4181.1 | 4290.2 | 4202.0 |
| 57.5° | 3546.8 | 3553.6 | 3739.2 | 4076.5 | 4507.9 | 4733.9 | 4667.2 | 4652.8 | 4613.9 | 4709.0 | 4681.3 |
| 60° | 3447.0 | 3474.4 | 3691.7 | 4127.7 | 4722.3 | 5137.1 | 5176.0 | 5158.0 | 5048.8 | 5126.7 | 5104.3 |
| 62.5° | 3244.4 | 3293.5 | 3514.0 | 4049.9 | 4806.3 | 5466.5 | 5675.2 | 5653.5 | 5465.4 | 5515.9 | 5408.5 |
| 65° | 2913.6 | 2934.5 | 3166.2 | 3781.4 | 4699.6 | 5677.3 | 6120.2 | 6109.4 | 5872.7 | 5793.7 | 5464.7 |
| 67.5° | 2321.9 | 2361.2 | 2557.9 | 3220.3 | 4263.2 | 5652.5 | 6464.4 | 6463.3 | 6138.6 | 5896.8 | 5265.4 |
| 69° | 1834.3 | 1875.0 | 2062.4 | 2652.7 | 3772.4 | 5425.1 | 6522.0 | 6534.7 | 6213.6 | 5834.1 | 4980.7 |
| 70° | 1462.4 | 1509.6 | 1638.3 | 2234.3 | 3336.7 | 5125.2 | 6474.1 | 6496.8 | 6199.1 | 5730.7 | 4718.0 |
| 72.5° | 622.4 | 660.6 | 752.1 | 1151.8 | 2033.6 | 3827.2 | 5919.5 | 6005.3 | 5865.1 | 5244.9 | 3899.2 |
| 75° | 271.7 | 283.6 | 325.1 | 469.6 | 902.7 | 2083.0 | 4637.3 | 4795.9 | 5015.0 | 4433.3 | 2904.6 |
| 77.5° | 198.9 | 204.0 | 226.7 | 275.7 | 405.1 | 786.7 | 2982.1 | 3074.3 | 3616.7 | 3226.1 | 1781.7 |
| 80° | 153.9 | 157.5 | 175.1 | 202.5 | 264.5 | 318.2 | 1360.1 | 1439.3 | 2033.6 | 1657.0 | 742.0 |
| 82.5° | 122.5 | 125.0 | 137.3 | 149.2 | 182.7 | 192.8 | 451.5 | 500.9 | 750.7 | 457.7 | 196.4 |
| 85° | 113.9 | 116.8 | 121.1 | 108.8 | 117.1 | 113.2 | 195.3 | 204.3 | 226.7 | 179.8 | 82.2 |
| 87.5° | 51.5 | 60.9 | 120.0 | 84.7 | 62.3 | 49.7 | 80.0 | 83.6 | 94.1 | 94.4 | 36.4 |
| 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: P318587
 CATALOG NUMBER: GAN-SA3A-722-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 | 1367.6 |
| 2.5° | 1370.9 | 1369.8 | 1371.6 | 1367.3 | 1372.7 | 1372.3 | 1370.5 | 1371.2 | 1374.8 | 1374.5 | 1374.8 |
| 5° | 1379.2 | 1378.4 | 1380.6 | 1377.3 | 1383.8 | 1386.0 | 1386.4 | 1389.6 | 1393.6 | 1394.6 | 1394.6 |
| 7.5° | 1400.1 | 1400.1 | 1401.1 | 1396.8 | 1401.1 | 1400.8 | 1399.0 | 1402.2 | 1406.2 | 1406.5 | 1406.2 |
| 10° | 1436.1 | 1436.4 | 1434.6 | 1423.5 | 1419.9 | 1410.1 | 1401.1 | 1401.5 | 1406.5 | 1410.5 | 1411.6 |
| 12.5° | 1481.5 | 1480.1 | 1472.1 | 1451.6 | 1436.4 | 1416.6 | 1407.3 | 1406.9 | 1411.9 | 1415.2 | 1416.3 |
| 15° | 1533.4 | 1529.4 | 1508.9 | 1475.4 | 1448.7 | 1429.2 | 1414.1 | 1410.5 | 1407.6 | 1404.0 | 1404.4 |
| 17.5° | 1582.4 | 1573.4 | 1539.2 | 1492.7 | 1464.6 | 1438.6 | 1409.4 | 1386.0 | 1369.8 | 1360.4 | 1357.5 |
| 20° | 1632.1 | 1614.5 | 1565.1 | 1508.9 | 1473.2 | 1426.0 | 1369.8 | 1322.2 | 1292.7 | 1279.0 | 1276.4 |
| 22.5° | 1677.5 | 1649.1 | 1589.2 | 1525.8 | 1466.4 | 1383.5 | 1295.2 | 1226.0 | 1184.9 | 1166.5 | 1168.0 |
| 25° | 1721.9 | 1682.2 | 1614.5 | 1537.7 | 1431.8 | 1308.5 | 1191.4 | 1106.3 | 1058.8 | 1038.2 | 1037.5 |
| 27.5° | 1760.8 | 1715.7 | 1641.9 | 1528.0 | 1367.3 | 1201.8 | 1068.5 | 985.6 | 946.0 | 928.3 | 925.4 |
| 30° | 1805.5 | 1757.9 | 1678.3 | 1490.9 | 1272.8 | 1078.6 | 948.5 | 890.1 | 862.0 | 844.4 | 841.1 |
| 32.5° | 1859.9 | 1815.2 | 1708.2 | 1423.5 | 1152.1 | 949.9 | 854.8 | 814.1 | 788.5 | 768.7 | 765.1 |
| 35° | 1939.2 | 1890.9 | 1715.7 | 1326.9 | 1019.5 | 848.3 | 786.0 | 744.2 | 709.6 | 684.0 | 681.5 |
| 37.5° | 2038.6 | 1985.7 | 1698.4 | 1201.8 | 890.8 | 782.4 | 728.7 | 677.1 | 632.1 | 596.1 | 590.3 |
| 40° | 2182.1 | 2102.1 | 1650.5 | 1057.7 | 796.1 | 731.6 | 672.8 | 614.1 | 558.2 | 516.1 | 507.8 |
| 42.5° | 2354.3 | 2238.6 | 1577.0 | 914.3 | 726.5 | 680.0 | 617.3 | 544.5 | 491.2 | 461.3 | 457.0 |
| 45° | 2573.4 | 2380.6 | 1475.0 | 788.9 | 658.0 | 628.5 | 557.5 | 490.5 | 457.3 | 435.3 | 431.7 |
| 47.5° | 2823.5 | 2539.9 | 1368.0 | 686.9 | 600.0 | 580.2 | 509.6 | 466.3 | 440.0 | 422.7 | 419.5 |
| 50° | 3130.9 | 2719.7 | 1254.5 | 603.3 | 541.6 | 522.2 | 486.9 | 453.0 | 432.1 | 418.8 | 415.5 |
| 52.5° | 3477.6 | 2922.6 | 1172.7 | 537.3 | 493.4 | 479.3 | 475.0 | 445.8 | 428.8 | 418.8 | 415.5 |
| 55° | 3851.0 | 3129.1 | 1084.4 | 481.8 | 451.5 | 455.5 | 467.0 | 446.5 | 435.0 | 422.7 | 418.0 |
| 57.5° | 4224.7 | 3342.5 | 986.0 | 435.0 | 418.4 | 437.9 | 461.6 | 447.9 | 438.2 | 426.3 | 422.0 |
| 60° | 4520.2 | 3477.6 | 833.5 | 395.7 | 392.1 | 418.4 | 448.7 | 437.1 | 424.5 | 424.9 | 424.2 |
| 62.5° | 4658.2 | 3470.4 | 665.2 | 360.7 | 365.8 | 392.1 | 427.8 | 420.2 | 409.7 | 423.8 | 424.9 |
| 65° | 4580.7 | 3297.4 | 517.9 | 329.0 | 337.7 | 364.7 | 406.1 | 411.9 | 415.5 | 442.5 | 446.1 |
| 67.5° | 4255.7 | 2960.8 | 401.1 | 301.3 | 312.1 | 346.0 | 408.3 | 448.7 | 453.4 | 481.8 | 481.5 |
| 69° | 3919.4 | 2645.1 | 348.5 | 286.9 | 299.5 | 350.6 | 436.4 | 472.1 | 454.4 | 484.7 | 480.4 |
| 70° | 3637.6 | 2395.4 | 320.4 | 277.1 | 293.7 | 358.9 | 455.2 | 471.7 | 449.0 | 475.0 | 467.8 |
| 72.5° | 2801.5 | 1723.3 | 271.7 | 259.1 | 274.2 | 343.4 | 460.6 | 461.3 | 436.4 | 441.5 | 429.2 |
| 75° | 1921.5 | 1089.0 | 237.1 | 234.6 | 244.7 | 309.6 | 443.3 | 440.7 | 403.6 | 396.4 | 386.3 |
| 77.5° | 1059.5 | 553.2 | 201.4 | 211.2 | 218.0 | 274.2 | 402.9 | 399.3 | 368.7 | 353.5 | 349.9 |
| 80° | 408.7 | 242.2 | 170.1 | 187.8 | 192.1 | 237.5 | 353.2 | 349.9 | 324.3 | 304.9 | 299.5 |
| 82.5° | 154.2 | 126.9 | 140.5 | 162.5 | 161.1 | 196.0 | 299.1 | 297.3 | 272.4 | 244.0 | 235.3 |
| 85° | 71.4 | 76.0 | 111.4 | 134.1 | 123.6 | 145.2 | 239.3 | 242.5 | 212.3 | 178.4 | 178.4 |
| 87.5° | 30.3 | 42.5 | 78.9 | 101.3 | 83.2 | 98.0 | 175.5 | 167.6 | 153.9 | 106.7 | 100.2 |
| 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)