

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: P318365

Luminaire Tested: **GAN-SA1C-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318365
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-SA1C-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6746 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

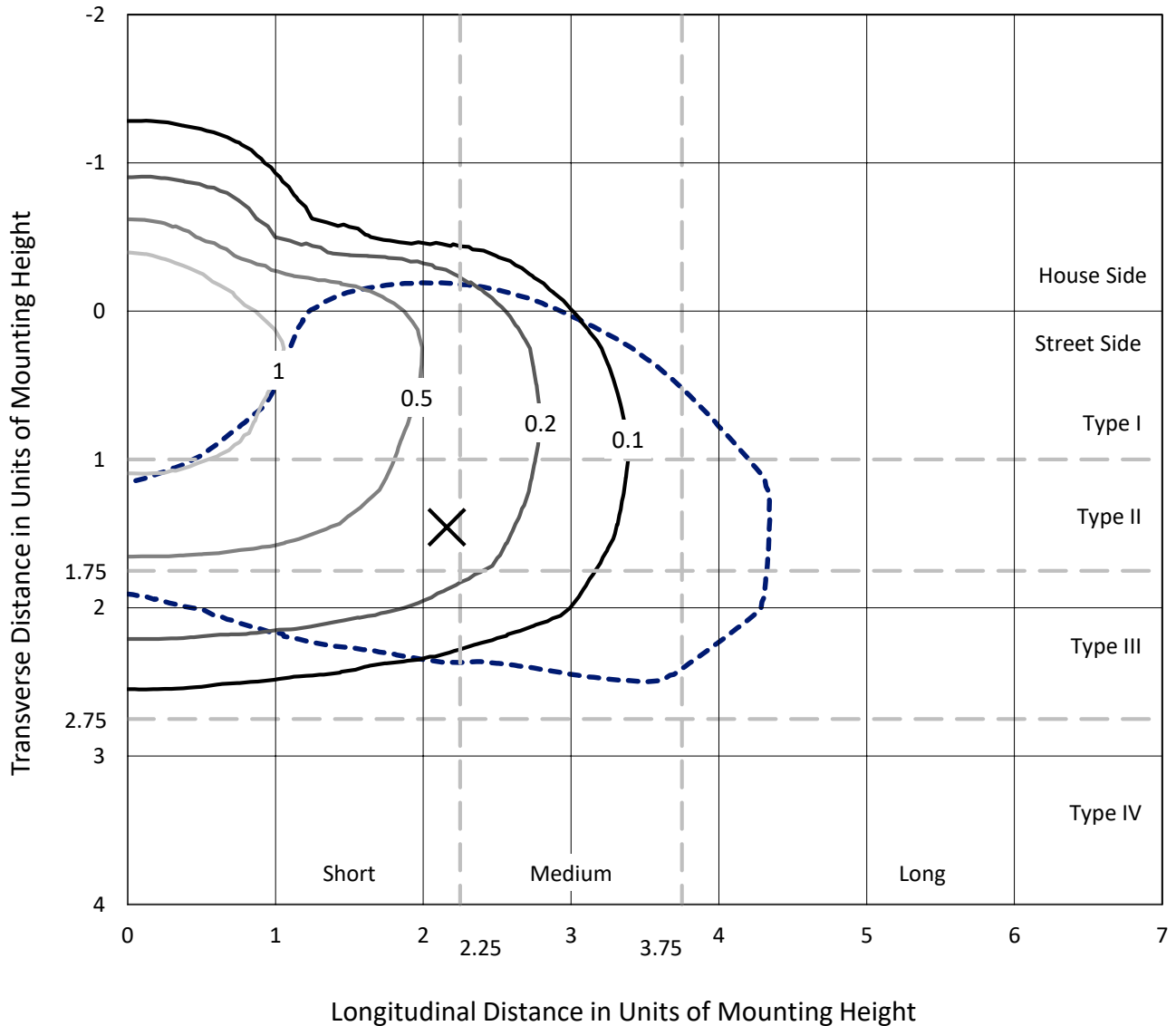
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318365
 CATALOG NUMBER: GAN-SA1C-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

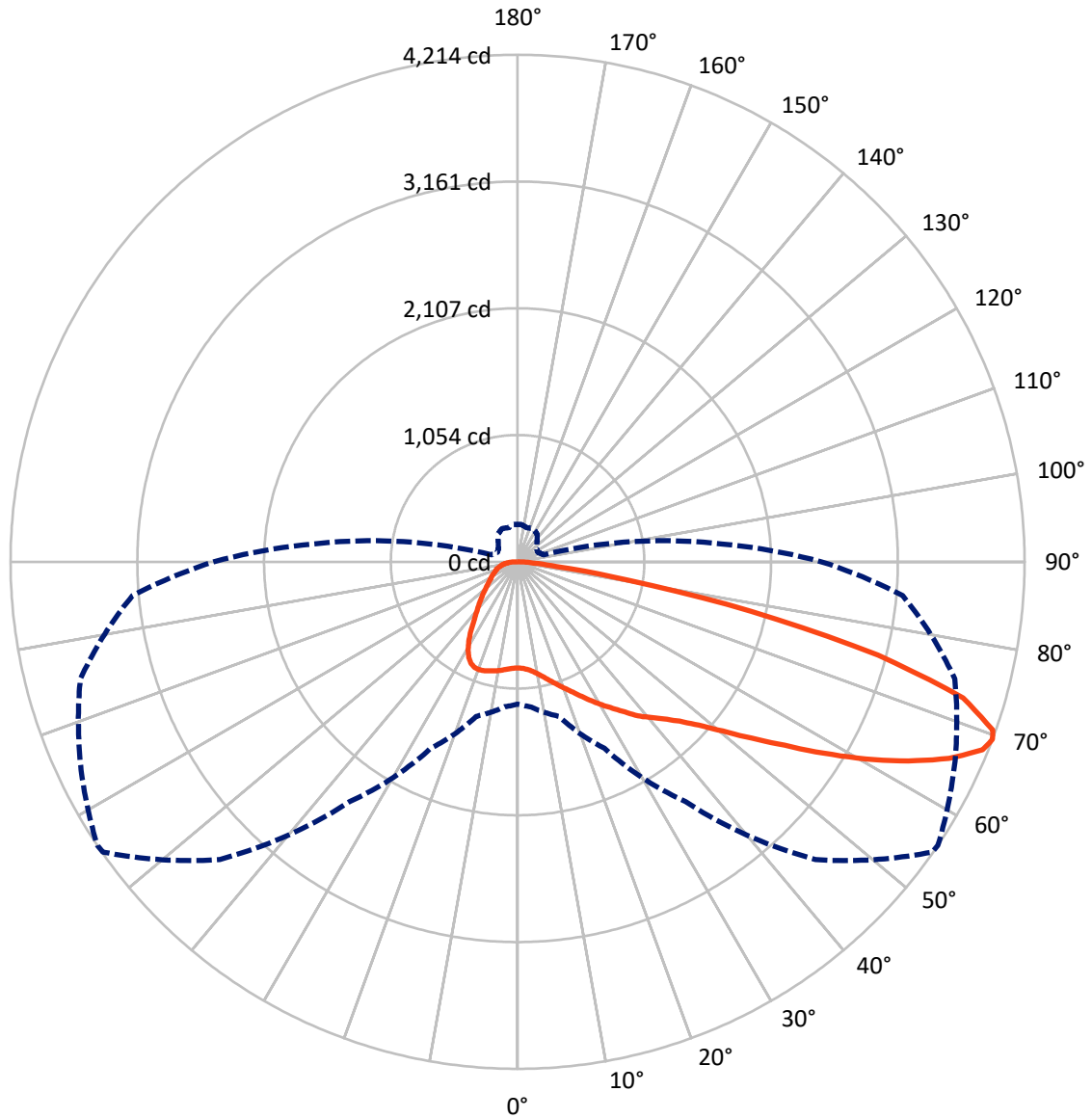
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

REPORT NUMBER: P318365
CATALOG NUMBER: GAN-SA1C-730-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P318365
 CATALOG NUMBER: GAN-SA1C-730-U-T3

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1502.3 | 0.0 | 1502.3 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 5243.7 | 0.0 | 5243.7 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 6746.0 | 0.0 | 6746.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.6 | 1.3 |
| 10°-20° | 278.5 | 4.1 |
| 20°-30° | 486.2 | 7.2 |
| 30°-40° | 698.4 | 10.4 |
| 40°-50° | 966.6 | 14.3 |
| 50°-60° | 1416.2 | 21.0 |
| 60°-70° | 1726.6 | 25.6 |
| 70°-80° | 954.6 | 14.2 |
| 80°-90° | 132.2 | 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° | 6746.0 | 100.0 |
| 0°-180° | 6746.0 | 100.0 |

Coefficient of Utilization

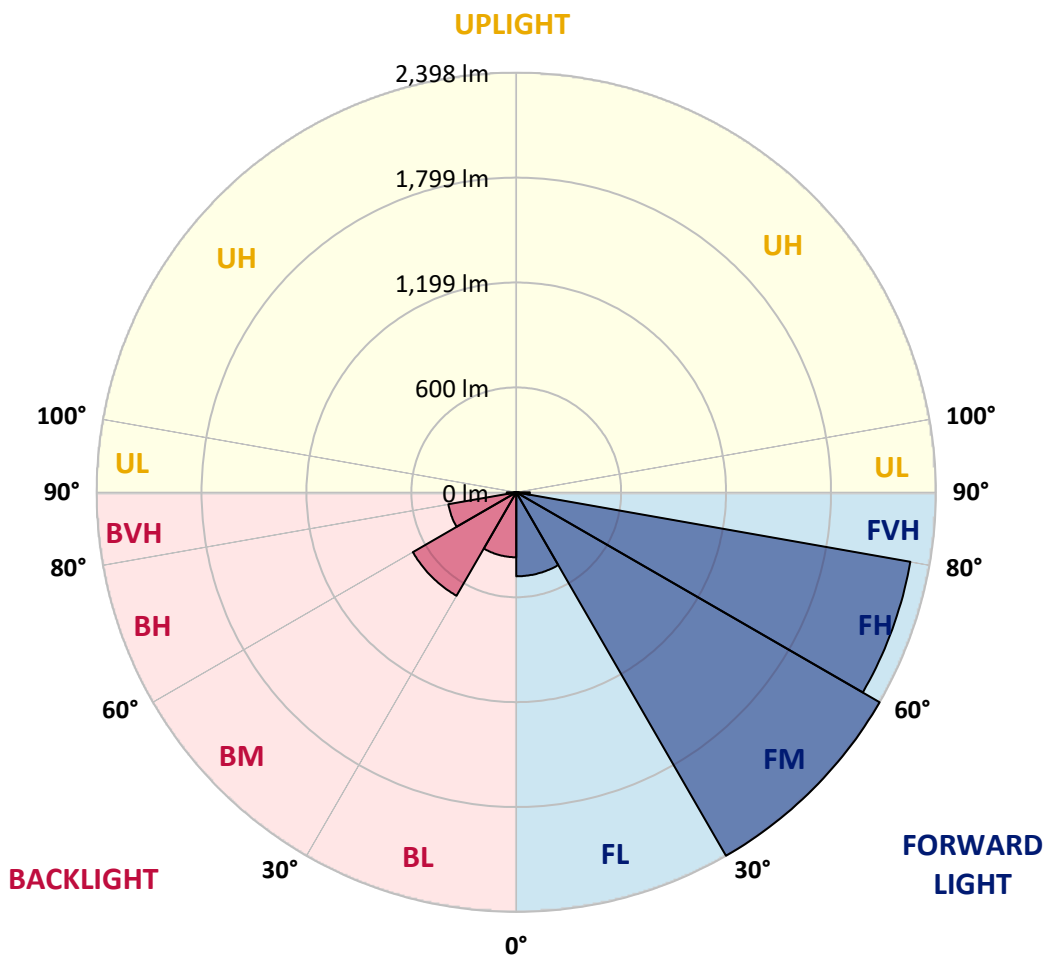


REPORT NUMBER: P318365
 CATALOG NUMBER: GAN-SA1C-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 480.1 | 7.1 | | | |
| FM (30°-60°) | 2398.4 | 35.6 | | | |
| FH (60°-80°) | 2287.2 | 33.9 | | | G2/5000 |
| FVH (80°-90°) | 77.9 | 1.2 | | | G1/100 |
| BL (0°-30°) | 371.3 | 5.5 | B1/500 | | |
| BM (30°-60°) | 682.8 | 10.1 | B1/1000 | | |
| BH (60°-80°) | 394.0 | 5.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 54.3 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Short





REPORT NUMBER: P318365
 CATALOG NUMBER: GAN-SA1C-730-U-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 |
| 2.5° | 887.5 | 888.4 | 887.7 | 889.6 | 887.5 | 888.9 | 887.7 | 887.7 | 887.1 | 885.0 | 882.6 |
| 5° | 901.5 | 903.3 | 902.2 | 904.0 | 901.5 | 901.9 | 899.8 | 899.8 | 897.7 | 893.3 | 888.7 |
| 7.5° | 923.3 | 925.4 | 924.5 | 926.3 | 922.8 | 922.8 | 920.1 | 919.8 | 915.6 | 908.4 | 903.1 |
| 10° | 949.3 | 952.1 | 951.2 | 954.0 | 951.2 | 952.1 | 949.3 | 949.3 | 943.8 | 933.5 | 926.8 |
| 12.5° | 987.2 | 990.7 | 988.1 | 987.9 | 986.7 | 988.6 | 986.3 | 985.8 | 980.7 | 966.8 | 957.5 |
| 15° | 1037.9 | 1041.6 | 1036.2 | 1035.8 | 1029.3 | 1028.6 | 1028.6 | 1027.9 | 1024.6 | 1007.9 | 992.6 |
| 17.5° | 1096.2 | 1097.4 | 1092.7 | 1085.3 | 1076.9 | 1071.6 | 1070.9 | 1072.7 | 1072.7 | 1053.2 | 1028.8 |
| 20° | 1153.4 | 1155.5 | 1151.7 | 1143.4 | 1132.7 | 1124.8 | 1119.2 | 1122.9 | 1122.7 | 1099.5 | 1064.8 |
| 22.5° | 1215.7 | 1220.5 | 1215.0 | 1204.3 | 1191.7 | 1182.9 | 1173.1 | 1176.4 | 1176.6 | 1148.0 | 1100.2 |
| 25° | 1296.3 | 1291.9 | 1288.4 | 1273.3 | 1255.4 | 1246.3 | 1237.3 | 1240.5 | 1239.6 | 1200.3 | 1136.6 |
| 27.5° | 1367.6 | 1368.6 | 1363.9 | 1347.9 | 1327.2 | 1307.2 | 1306.8 | 1308.8 | 1305.4 | 1254.7 | 1171.0 |
| 30° | 1450.6 | 1451.1 | 1444.6 | 1430.2 | 1407.6 | 1381.8 | 1375.8 | 1379.3 | 1371.8 | 1306.3 | 1207.3 |
| 32.5° | 1533.1 | 1535.4 | 1528.2 | 1510.8 | 1492.7 | 1461.3 | 1449.2 | 1451.5 | 1432.9 | 1359.0 | 1244.7 |
| 35° | 1605.4 | 1608.6 | 1606.3 | 1594.7 | 1574.9 | 1548.0 | 1533.6 | 1532.2 | 1509.2 | 1423.7 | 1294.2 |
| 37.5° | 1679.1 | 1682.1 | 1679.5 | 1669.8 | 1661.9 | 1633.3 | 1625.6 | 1625.6 | 1585.6 | 1489.7 | 1357.2 |
| 40° | 1754.8 | 1759.5 | 1756.4 | 1743.0 | 1736.2 | 1723.2 | 1704.8 | 1700.4 | 1657.2 | 1568.9 | 1459.9 |
| 42.5° | 1825.2 | 1831.3 | 1843.4 | 1835.5 | 1821.7 | 1823.6 | 1786.7 | 1784.3 | 1752.7 | 1686.0 | 1588.9 |
| 45° | 1925.2 | 1934.0 | 1954.4 | 1948.4 | 1945.6 | 1935.4 | 1891.5 | 1889.4 | 1877.3 | 1843.6 | 1749.0 |
| 47.5° | 2034.2 | 2046.2 | 2083.2 | 2084.3 | 2114.3 | 2095.0 | 2035.3 | 2028.1 | 2030.9 | 2032.3 | 1944.4 |
| 50° | 2134.5 | 2147.8 | 2208.4 | 2237.0 | 2307.7 | 2311.9 | 2216.3 | 2209.8 | 2220.8 | 2252.8 | 2172.2 |
| 52.5° | 2214.7 | 2231.5 | 2307.2 | 2395.5 | 2516.6 | 2551.0 | 2439.2 | 2434.3 | 2442.5 | 2497.8 | 2429.7 |
| 55° | 2273.5 | 2291.6 | 2374.1 | 2535.0 | 2728.3 | 2789.0 | 2695.8 | 2691.1 | 2696.2 | 2766.7 | 2709.7 |
| 57.5° | 2287.2 | 2291.6 | 2411.3 | 2628.8 | 2907.0 | 3052.7 | 3009.7 | 3000.4 | 2975.3 | 3036.7 | 3018.8 |
| 60° | 2222.9 | 2240.5 | 2380.7 | 2661.8 | 3045.3 | 3312.8 | 3337.9 | 3326.3 | 3255.8 | 3306.0 | 3291.6 |
| 62.5° | 2092.2 | 2123.9 | 2266.1 | 2611.7 | 3099.4 | 3525.2 | 3659.8 | 3645.8 | 3524.5 | 3557.0 | 3487.8 |
| 65° | 1878.9 | 1892.4 | 2041.8 | 2438.5 | 3030.7 | 3661.1 | 3946.8 | 3939.8 | 3787.1 | 3736.2 | 3524.0 |
| 67.5° | 1497.3 | 1522.7 | 1649.5 | 2076.7 | 2749.2 | 3645.1 | 4168.7 | 4168.0 | 3958.6 | 3802.7 | 3395.5 |
| 69° | 1182.9 | 1209.1 | 1330.0 | 1710.7 | 2432.7 | 3498.5 | 4205.9 | 4214.0 | 4006.9 | 3762.2 | 3211.9 |
| 70° | 943.1 | 973.5 | 1056.5 | 1440.8 | 2151.7 | 3305.1 | 4175.0 | 4189.6 | 3997.7 | 3695.5 | 3042.5 |
| 72.5° | 401.3 | 426.0 | 485.0 | 742.7 | 1311.4 | 2468.0 | 3817.3 | 3872.6 | 3782.2 | 3382.3 | 2514.5 |
| 75° | 175.2 | 182.9 | 209.6 | 302.8 | 582.1 | 1343.2 | 2990.5 | 3092.7 | 3234.0 | 2858.9 | 1873.1 |
| 77.5° | 128.3 | 131.5 | 146.2 | 177.8 | 261.2 | 507.3 | 1923.1 | 1982.6 | 2332.3 | 2080.4 | 1149.0 |
| 80° | 99.2 | 101.6 | 112.9 | 130.6 | 170.6 | 205.2 | 877.1 | 928.2 | 1311.4 | 1068.6 | 478.5 |
| 82.5° | 79.0 | 80.6 | 88.5 | 96.2 | 117.8 | 124.3 | 291.2 | 323.0 | 484.1 | 295.1 | 126.7 |
| 85° | 73.4 | 75.3 | 78.1 | 70.2 | 75.5 | 73.0 | 126.0 | 131.8 | 146.2 | 116.0 | 53.0 |
| 87.5° | 33.2 | 39.3 | 77.4 | 54.6 | 40.2 | 32.1 | 51.6 | 53.9 | 60.7 | 60.9 | 23.5 |
| 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: P318365
 CATALOG NUMBER: GAN-SA1C-730-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 | 881.9 |
| 2.5° | 884.0 | 883.3 | 884.5 | 881.7 | 885.2 | 885.0 | 883.8 | 884.3 | 886.6 | 886.4 | 886.6 |
| 5° | 889.4 | 888.9 | 890.3 | 888.2 | 892.4 | 893.8 | 894.0 | 896.1 | 898.7 | 899.4 | 899.4 |
| 7.5° | 902.9 | 902.9 | 903.6 | 900.8 | 903.6 | 903.3 | 902.2 | 904.2 | 906.8 | 907.0 | 906.8 |
| 10° | 926.1 | 926.3 | 925.2 | 918.0 | 915.6 | 909.4 | 903.6 | 903.8 | 907.0 | 909.6 | 910.3 |
| 12.5° | 955.4 | 954.4 | 949.3 | 936.1 | 926.3 | 913.5 | 907.5 | 907.3 | 910.5 | 912.6 | 913.3 |
| 15° | 988.8 | 986.3 | 973.0 | 951.4 | 934.2 | 921.7 | 911.9 | 909.6 | 907.7 | 905.4 | 905.6 |
| 17.5° | 1020.4 | 1014.6 | 992.6 | 962.6 | 944.5 | 927.7 | 908.9 | 893.8 | 883.3 | 877.3 | 875.4 |
| 20° | 1052.5 | 1041.1 | 1009.3 | 973.0 | 950.0 | 919.6 | 883.3 | 852.7 | 833.6 | 824.8 | 823.1 |
| 22.5° | 1081.8 | 1063.4 | 1024.9 | 984.0 | 945.6 | 892.2 | 835.2 | 790.6 | 764.1 | 752.3 | 753.2 |
| 25° | 1110.4 | 1084.8 | 1041.1 | 991.6 | 923.3 | 843.8 | 768.3 | 713.5 | 682.8 | 669.5 | 669.1 |
| 27.5° | 1135.5 | 1106.4 | 1058.8 | 985.4 | 881.7 | 775.0 | 689.1 | 635.6 | 610.0 | 598.6 | 596.8 |
| 30° | 1164.3 | 1133.6 | 1082.3 | 961.4 | 820.8 | 695.6 | 611.7 | 574.0 | 555.9 | 544.5 | 542.4 |
| 32.5° | 1199.4 | 1170.6 | 1101.6 | 918.0 | 743.0 | 612.6 | 551.2 | 525.0 | 508.5 | 495.7 | 493.4 |
| 35° | 1250.5 | 1219.4 | 1106.4 | 855.7 | 657.4 | 547.1 | 506.9 | 479.9 | 457.6 | 441.1 | 439.5 |
| 37.5° | 1314.7 | 1280.5 | 1095.3 | 775.0 | 574.5 | 504.5 | 469.9 | 436.7 | 407.6 | 384.4 | 380.7 |
| 40° | 1407.2 | 1355.6 | 1064.4 | 682.1 | 513.4 | 471.8 | 433.9 | 396.0 | 360.0 | 332.8 | 327.4 |
| 42.5° | 1518.2 | 1443.6 | 1017.0 | 589.6 | 468.5 | 438.5 | 398.1 | 351.1 | 316.8 | 297.5 | 294.7 |
| 45° | 1659.5 | 1535.2 | 951.2 | 508.7 | 424.4 | 405.3 | 359.5 | 316.3 | 294.9 | 280.7 | 278.4 |
| 47.5° | 1820.8 | 1637.9 | 882.2 | 442.9 | 386.9 | 374.2 | 328.6 | 300.7 | 283.8 | 272.6 | 270.5 |
| 50° | 2019.0 | 1753.9 | 809.0 | 389.0 | 349.3 | 336.7 | 314.0 | 292.1 | 278.6 | 270.0 | 268.0 |
| 52.5° | 2242.6 | 1884.7 | 756.2 | 346.5 | 318.1 | 309.1 | 306.3 | 287.5 | 276.5 | 270.0 | 268.0 |
| 55° | 2483.4 | 2017.9 | 699.3 | 310.7 | 291.2 | 293.7 | 301.2 | 287.9 | 280.5 | 272.6 | 269.6 |
| 57.5° | 2724.4 | 2155.5 | 635.8 | 280.5 | 269.8 | 282.4 | 297.7 | 288.9 | 282.6 | 274.9 | 272.1 |
| 60° | 2914.9 | 2242.6 | 537.5 | 255.2 | 252.8 | 269.8 | 289.3 | 281.9 | 273.8 | 274.0 | 273.5 |
| 62.5° | 3003.9 | 2238.0 | 429.0 | 232.6 | 235.9 | 252.8 | 275.9 | 271.0 | 264.2 | 273.3 | 274.0 |
| 65° | 2954.0 | 2126.4 | 334.0 | 212.2 | 217.8 | 235.2 | 261.9 | 265.6 | 268.0 | 285.4 | 287.7 |
| 67.5° | 2744.3 | 1909.4 | 258.7 | 194.3 | 201.3 | 223.1 | 263.3 | 289.3 | 292.4 | 310.7 | 310.5 |
| 69° | 2527.5 | 1705.8 | 224.7 | 185.0 | 193.1 | 226.1 | 281.4 | 304.4 | 293.0 | 312.6 | 309.8 |
| 70° | 2345.8 | 1544.7 | 206.6 | 178.7 | 189.4 | 231.5 | 293.5 | 304.2 | 289.6 | 306.3 | 301.6 |
| 72.5° | 1806.6 | 1111.3 | 175.2 | 167.1 | 176.9 | 221.5 | 297.0 | 297.5 | 281.4 | 284.7 | 276.8 |
| 75° | 1239.1 | 702.3 | 152.9 | 151.3 | 157.8 | 199.6 | 285.8 | 284.2 | 260.3 | 255.6 | 249.1 |
| 77.5° | 683.2 | 356.7 | 129.9 | 136.2 | 140.6 | 176.9 | 259.8 | 257.5 | 237.7 | 228.0 | 225.7 |
| 80° | 263.5 | 156.2 | 109.7 | 121.1 | 123.9 | 153.1 | 227.7 | 225.7 | 209.2 | 196.6 | 193.1 |
| 82.5° | 99.5 | 81.8 | 90.6 | 104.8 | 103.9 | 126.4 | 192.9 | 191.7 | 175.7 | 157.3 | 151.8 |
| 85° | 46.0 | 49.0 | 71.8 | 86.5 | 79.7 | 93.7 | 154.3 | 156.4 | 136.9 | 115.0 | 115.0 |
| 87.5° | 19.5 | 27.4 | 50.9 | 65.3 | 53.7 | 63.2 | 113.2 | 108.1 | 99.2 | 68.8 | 64.6 |
| 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)