

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: P322546

Luminaire Tested: **GAN-SA2A-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6771 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

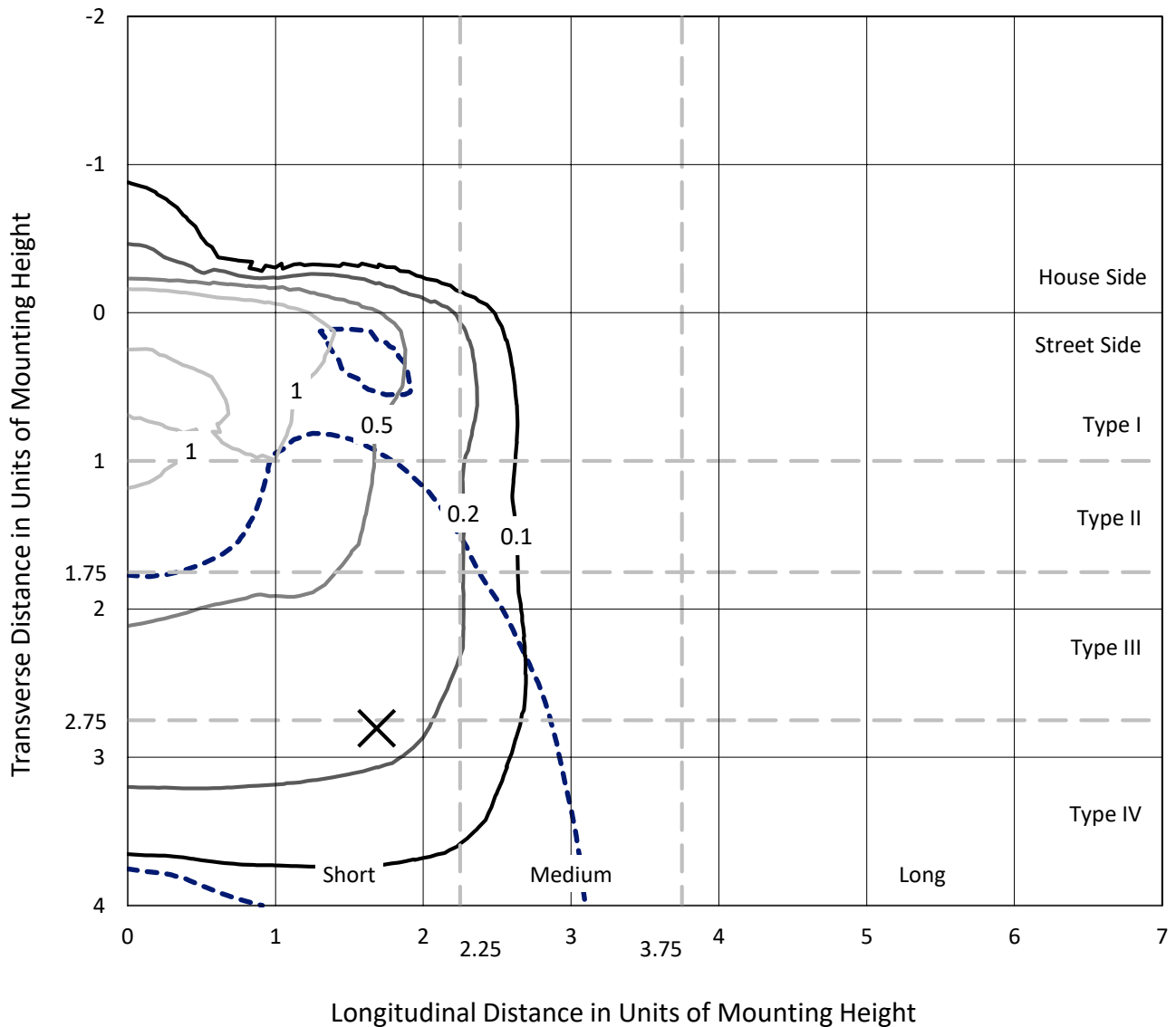
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

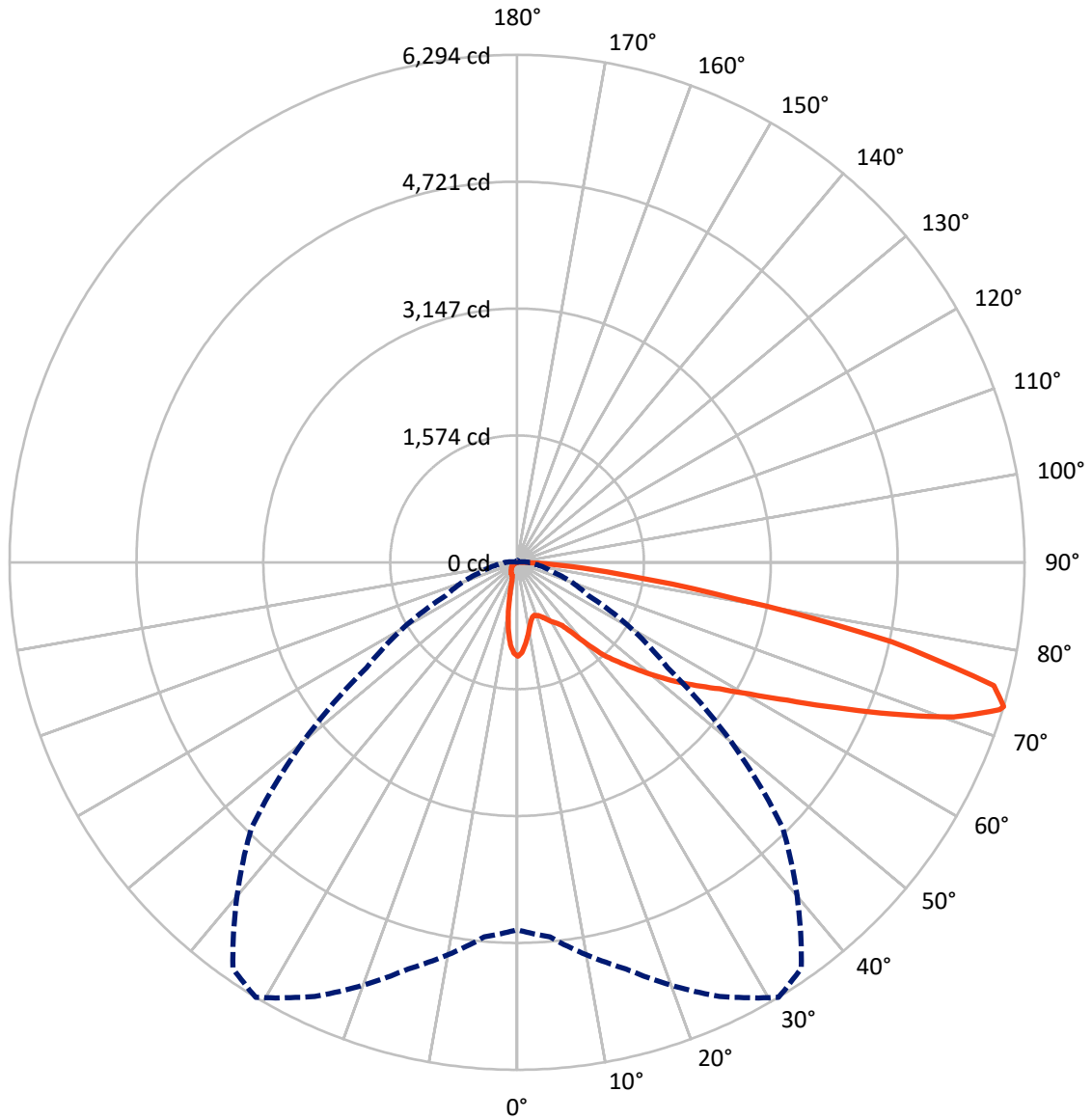
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 617.2 | 0.0 | 617.2 |
| | % Fixture | 9.1 | 0.0 | 9.1 |
| Street Side | Lumens | 6153.8 | 0.0 | 6153.8 |
| | % Fixture | 90.9 | 0.0 | 90.9 |
| Total | Lumens | 6771.0 | 0.0 | 6771.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.6 | 1.4 |
| 10°-20° | 209.7 | 3.1 |
| 20°-30° | 314.2 | 4.6 |
| 30°-40° | 499.9 | 7.4 |
| 40°-50° | 892.8 | 13.2 |
| 50°-60° | 1385.3 | 20.5 |
| 60°-70° | 1841.6 | 27.2 |
| 70°-80° | 1385.3 | 20.5 |
| 80°-90° | 145.6 | 2.1 |
| 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° | 6771.0 | 100.0 |
| 0°-180° | 6771.0 | 100.0 |



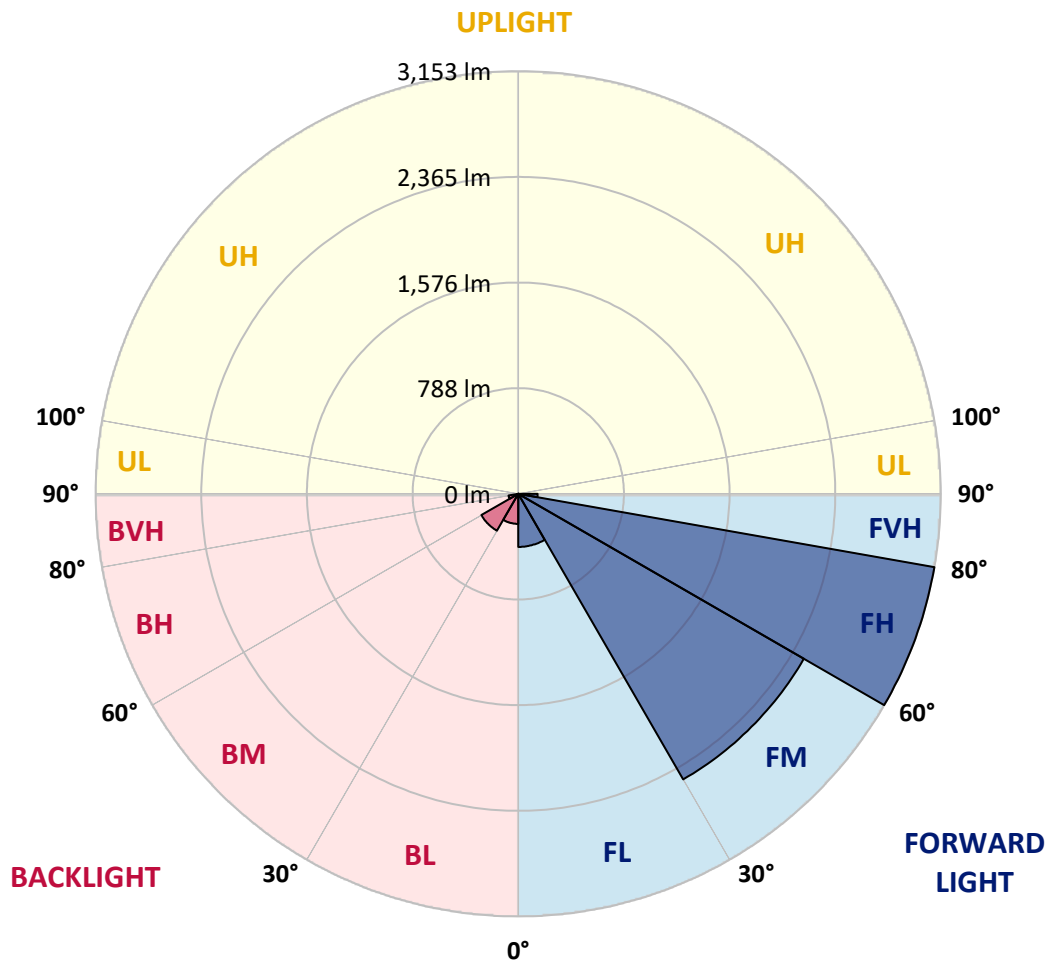
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 396.1 | 5.9 | | | |
| FM (30°-60°) | 2460.3 | 36.3 | | | |
| FH (60°-80°) | 3153.0 | 46.6 | | | G2/5000 |
| FVH (80°-90°) | 144.3 | 2.1 | | | G2/225 |
| BL (0°-30°) | 224.4 | 3.3 | B1/500 | | |
| BM (30°-60°) | 317.7 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 73.8 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.2 | 0.0 | | | G0/10 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 31° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 |
| 2.5° | 1104.0 | 1108.6 | 1113.6 | 1114.6 | 1122.9 | 1123.2 | 1135.1 | 1144.1 | 1153.0 | 1161.7 | 1164.6 |
| 5° | 990.7 | 998.3 | 1007.3 | 1016.2 | 1033.8 | 1040.7 | 1069.9 | 1099.7 | 1128.2 | 1155.4 | 1168.6 |
| 7.5° | 869.7 | 878.4 | 891.0 | 913.2 | 932.7 | 946.3 | 992.3 | 1045.4 | 1098.4 | 1148.4 | 1177.2 |
| 10° | 759.4 | 767.4 | 780.6 | 804.1 | 834.3 | 852.8 | 914.8 | 988.4 | 1066.2 | 1142.1 | 1190.1 |
| 12.5° | 689.2 | 693.5 | 700.8 | 725.9 | 753.1 | 774.0 | 846.9 | 938.0 | 1039.7 | 1141.8 | 1211.0 |
| 15° | 676.2 | 677.6 | 671.6 | 682.9 | 704.1 | 724.3 | 798.2 | 897.2 | 1019.5 | 1147.1 | 1238.2 |
| 17.5° | 696.8 | 696.1 | 676.2 | 674.9 | 691.8 | 708.4 | 774.3 | 869.1 | 1005.3 | 1159.3 | 1273.3 |
| 20° | 727.9 | 725.6 | 691.2 | 684.9 | 702.8 | 718.3 | 772.7 | 858.5 | 1000.0 | 1179.9 | 1316.1 |
| 22.5° | 769.4 | 765.4 | 711.4 | 704.7 | 724.0 | 740.2 | 793.2 | 868.8 | 1004.6 | 1207.4 | 1365.8 |
| 25° | 820.7 | 814.7 | 746.2 | 738.9 | 758.4 | 774.7 | 830.0 | 898.2 | 1018.5 | 1240.8 | 1428.7 |
| 27.5° | 878.7 | 870.1 | 801.8 | 782.9 | 805.1 | 822.0 | 879.0 | 943.3 | 1040.4 | 1276.3 | 1505.9 |
| 30° | 933.4 | 922.1 | 860.5 | 829.3 | 856.5 | 875.4 | 932.0 | 997.0 | 1075.5 | 1331.0 | 1611.6 |
| 32.5° | 988.4 | 975.8 | 912.8 | 875.7 | 900.2 | 920.8 | 986.7 | 1070.9 | 1141.4 | 1414.5 | 1752.1 |
| 35° | 1114.9 | 1101.7 | 1024.5 | 963.2 | 962.9 | 974.4 | 1063.2 | 1171.9 | 1228.6 | 1530.8 | 1919.7 |
| 37.5° | 1328.0 | 1320.4 | 1246.8 | 1130.5 | 1099.4 | 1086.4 | 1167.6 | 1292.5 | 1353.8 | 1690.8 | 2108.9 |
| 40° | 1561.2 | 1554.6 | 1472.1 | 1366.7 | 1319.4 | 1287.6 | 1317.4 | 1460.5 | 1530.8 | 1886.3 | 2302.1 |
| 42.5° | 1824.6 | 1793.2 | 1646.1 | 1614.6 | 1572.2 | 1548.0 | 1521.1 | 1667.6 | 1748.1 | 2099.0 | 2493.6 |
| 45° | 2063.9 | 2010.9 | 1820.0 | 1772.3 | 1762.7 | 1768.7 | 1783.6 | 1945.9 | 1992.6 | 2351.8 | 2684.5 |
| 47.5° | 2206.3 | 2164.6 | 2018.1 | 1972.4 | 1969.8 | 2009.2 | 2121.9 | 2260.3 | 2236.2 | 2572.1 | 2852.4 |
| 50° | 2341.9 | 2304.1 | 2182.5 | 2193.8 | 2206.0 | 2259.7 | 2505.9 | 2583.7 | 2458.5 | 2771.9 | 3006.5 |
| 52.5° | 2451.5 | 2393.9 | 2330.3 | 2393.5 | 2453.8 | 2540.3 | 2902.1 | 2874.0 | 2616.2 | 2931.0 | 3138.4 |
| 55° | 2514.8 | 2488.6 | 2519.5 | 2583.1 | 2696.4 | 2836.9 | 3276.2 | 3115.5 | 2731.5 | 3076.1 | 3226.2 |
| 57.5° | 2746.7 | 2695.4 | 2756.7 | 2811.7 | 2959.5 | 3155.9 | 3596.6 | 3295.4 | 2814.7 | 3165.9 | 3246.4 |
| 60° | 3027.4 | 2986.0 | 3022.1 | 3113.5 | 3313.0 | 3543.9 | 3896.1 | 3442.2 | 2858.1 | 3223.5 | 3194.0 |
| 62.5° | 3474.0 | 3419.3 | 3396.8 | 3499.2 | 3763.6 | 4015.7 | 4123.4 | 3543.9 | 2848.5 | 3198.0 | 3014.5 |
| 65° | 4072.4 | 4015.7 | 3915.0 | 4007.8 | 4344.1 | 4522.0 | 4377.6 | 3565.5 | 2782.2 | 2991.6 | 2560.5 |
| 67.5° | 4685.4 | 4644.3 | 4558.1 | 4714.5 | 5018.0 | 5075.3 | 4646.3 | 3513.1 | 2568.8 | 2425.7 | 1809.1 |
| 70° | 5090.3 | 5072.7 | 5128.7 | 5474.6 | 5745.3 | 5728.7 | 4892.8 | 3231.8 | 2002.2 | 1491.7 | 894.9 |
| 72.5° | 4798.4 | 4882.5 | 5296.0 | 5923.2 | 6253.9 | 6118.7 | 4766.2 | 2481.7 | 1144.4 | 573.9 | 258.8 |
| 73° | 4556.5 | 4664.2 | 5220.8 | 5940.1 | 6294.0 | 6145.9 | 4659.9 | 2277.9 | 975.4 | 452.9 | 196.1 |
| 75° | 3169.9 | 3302.1 | 4322.2 | 5532.3 | 6106.5 | 5855.6 | 3884.2 | 1394.2 | 451.9 | 200.8 | 79.2 |
| 77.5° | 1539.0 | 1636.8 | 2380.0 | 3997.2 | 4749.0 | 4575.0 | 2418.1 | 519.5 | 204.1 | 125.6 | 36.4 |
| 80° | 574.5 | 638.8 | 1033.1 | 2034.4 | 2744.4 | 2816.3 | 1063.6 | 196.5 | 135.8 | 101.1 | 18.6 |
| 82.5° | 150.4 | 167.7 | 381.0 | 907.2 | 1406.5 | 1472.1 | 335.3 | 99.1 | 99.4 | 83.2 | 11.3 |
| 85° | 48.0 | 55.0 | 118.9 | 407.2 | 662.7 | 581.8 | 87.5 | 48.0 | 72.2 | 62.0 | 6.3 |
| 87.5° | 6.0 | 7.6 | 37.8 | 95.8 | 146.1 | 81.2 | 13.6 | 14.2 | 30.8 | 34.5 | 3.6 |
| 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: P322546

CATALOG NUMBER: GAN-SA2A-740-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 | 1165.0 |
| 2.5° | 1167.6 | 1166.0 | 1166.3 | 1157.7 | 1152.0 | 1140.8 | 1129.2 | 1123.9 | 1118.2 | 1115.9 | 1118.2 |
| 5° | 1173.6 | 1170.6 | 1162.0 | 1135.5 | 1107.3 | 1070.9 | 1036.7 | 1010.9 | 978.4 | 969.5 | 978.8 |
| 7.5° | 1182.9 | 1176.9 | 1151.7 | 1097.7 | 1035.1 | 965.5 | 887.3 | 830.3 | 783.6 | 753.4 | 764.4 |
| 10° | 1196.4 | 1185.2 | 1134.5 | 1042.7 | 930.7 | 807.5 | 696.5 | 610.0 | 548.7 | 523.5 | 522.5 |
| 12.5° | 1219.3 | 1198.1 | 1113.3 | 971.1 | 803.1 | 638.8 | 493.4 | 399.6 | 349.9 | 317.7 | 317.1 |
| 15° | 1244.5 | 1213.3 | 1086.4 | 885.3 | 654.7 | 457.6 | 317.7 | 246.5 | 214.4 | 204.1 | 202.8 |
| 17.5° | 1275.3 | 1230.9 | 1051.6 | 779.6 | 499.3 | 303.2 | 207.4 | 186.9 | 185.5 | 184.6 | 184.6 |
| 20° | 1314.1 | 1251.8 | 1006.9 | 658.7 | 354.2 | 202.4 | 176.3 | 177.6 | 178.3 | 176.9 | 177.3 |
| 22.5° | 1359.1 | 1273.0 | 953.6 | 528.8 | 239.6 | 169.3 | 168.6 | 170.3 | 171.0 | 170.3 | 170.6 |
| 25° | 1411.5 | 1297.5 | 888.6 | 392.6 | 173.0 | 160.7 | 162.4 | 164.7 | 166.3 | 166.3 | 166.3 |
| 27.5° | 1476.4 | 1327.3 | 810.4 | 274.0 | 149.4 | 151.8 | 156.4 | 160.7 | 163.0 | 163.7 | 163.7 |
| 30° | 1560.9 | 1364.4 | 716.7 | 187.9 | 135.8 | 139.8 | 148.4 | 156.7 | 161.0 | 161.7 | 162.0 |
| 32.5° | 1667.6 | 1406.2 | 608.0 | 138.8 | 124.2 | 127.2 | 136.5 | 150.4 | 158.7 | 160.0 | 160.0 |
| 35° | 1789.9 | 1454.5 | 491.0 | 120.9 | 116.0 | 117.0 | 124.2 | 140.2 | 154.7 | 158.4 | 158.7 |
| 37.5° | 1923.7 | 1502.3 | 373.4 | 113.0 | 109.0 | 109.0 | 114.3 | 127.9 | 145.1 | 156.4 | 157.7 |
| 40° | 2048.6 | 1531.1 | 261.8 | 106.7 | 102.7 | 102.7 | 107.4 | 117.3 | 133.5 | 150.4 | 154.1 |
| 42.5° | 2163.9 | 1541.0 | 182.2 | 100.7 | 96.7 | 97.7 | 101.7 | 109.7 | 121.9 | 138.8 | 142.1 |
| 45° | 2282.5 | 1539.4 | 132.9 | 93.8 | 90.8 | 93.8 | 96.7 | 102.7 | 111.7 | 121.3 | 121.9 |
| 47.5° | 2372.0 | 1525.5 | 105.4 | 87.1 | 85.2 | 89.1 | 91.8 | 95.8 | 100.7 | 100.1 | 100.1 |
| 50° | 2455.8 | 1491.7 | 84.8 | 78.2 | 79.5 | 84.2 | 85.5 | 86.8 | 87.1 | 80.8 | 80.2 |
| 52.5° | 2519.5 | 1439.0 | 67.9 | 68.6 | 73.9 | 78.5 | 77.2 | 75.2 | 71.9 | 64.3 | 63.0 |
| 55° | 2540.7 | 1337.6 | 53.3 | 56.7 | 65.6 | 71.6 | 66.6 | 62.3 | 56.0 | 49.7 | 48.4 |
| 57.5° | 2502.2 | 1206.7 | 43.4 | 44.1 | 55.3 | 60.3 | 54.7 | 49.7 | 42.7 | 37.4 | 36.4 |
| 60° | 2420.7 | 1061.3 | 35.8 | 33.1 | 42.7 | 47.0 | 43.4 | 38.4 | 32.1 | 28.2 | 27.8 |
| 62.5° | 2259.0 | 906.2 | 29.5 | 25.8 | 32.5 | 36.1 | 33.8 | 30.2 | 24.8 | 22.2 | 21.9 |
| 65° | 1919.1 | 725.0 | 23.9 | 20.9 | 25.2 | 28.2 | 26.2 | 23.5 | 19.5 | 17.6 | 17.2 |
| 67.5° | 1339.6 | 490.0 | 19.5 | 17.2 | 19.9 | 22.2 | 20.5 | 19.2 | 15.6 | 15.2 | 15.6 |
| 70° | 646.1 | 236.2 | 16.2 | 13.9 | 15.6 | 17.2 | 16.6 | 15.6 | 14.9 | 17.2 | 19.9 |
| 72.5° | 185.2 | 79.2 | 12.9 | 11.6 | 12.6 | 13.6 | 14.2 | 13.9 | 16.2 | 20.9 | 24.2 |
| 73° | 142.5 | 63.9 | 12.3 | 10.9 | 11.9 | 13.3 | 13.9 | 13.6 | 16.6 | 21.2 | 24.2 |
| 75° | 61.0 | 30.8 | 9.3 | 8.9 | 9.9 | 11.6 | 12.3 | 12.3 | 16.6 | 21.5 | 23.2 |
| 77.5° | 27.5 | 16.6 | 6.0 | 7.0 | 8.6 | 9.3 | 10.3 | 10.3 | 13.3 | 16.6 | 16.6 |
| 80° | 15.6 | 8.9 | 4.6 | 5.3 | 6.3 | 6.3 | 6.3 | 5.6 | 6.0 | 6.6 | 7.3 |
| 82.5° | 9.9 | 6.0 | 3.6 | 4.3 | 4.0 | 3.3 | 2.7 | 2.7 | 2.3 | 2.7 | 3.3 |
| 85° | 5.6 | 3.3 | 3.3 | 2.7 | 1.7 | 1.3 | 1.7 | 1.3 | 0.3 | 0.0 | 0.3 |
| 87.5° | 3.3 | 2.0 | 1.0 | 0.0 | 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 |

(END OF REPORT)