

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: P191630

Luminaire Tested: **GAN-AF-02-LED-U-5NQ-7050-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5NQ-7050-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8277 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

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: 28.75 FT

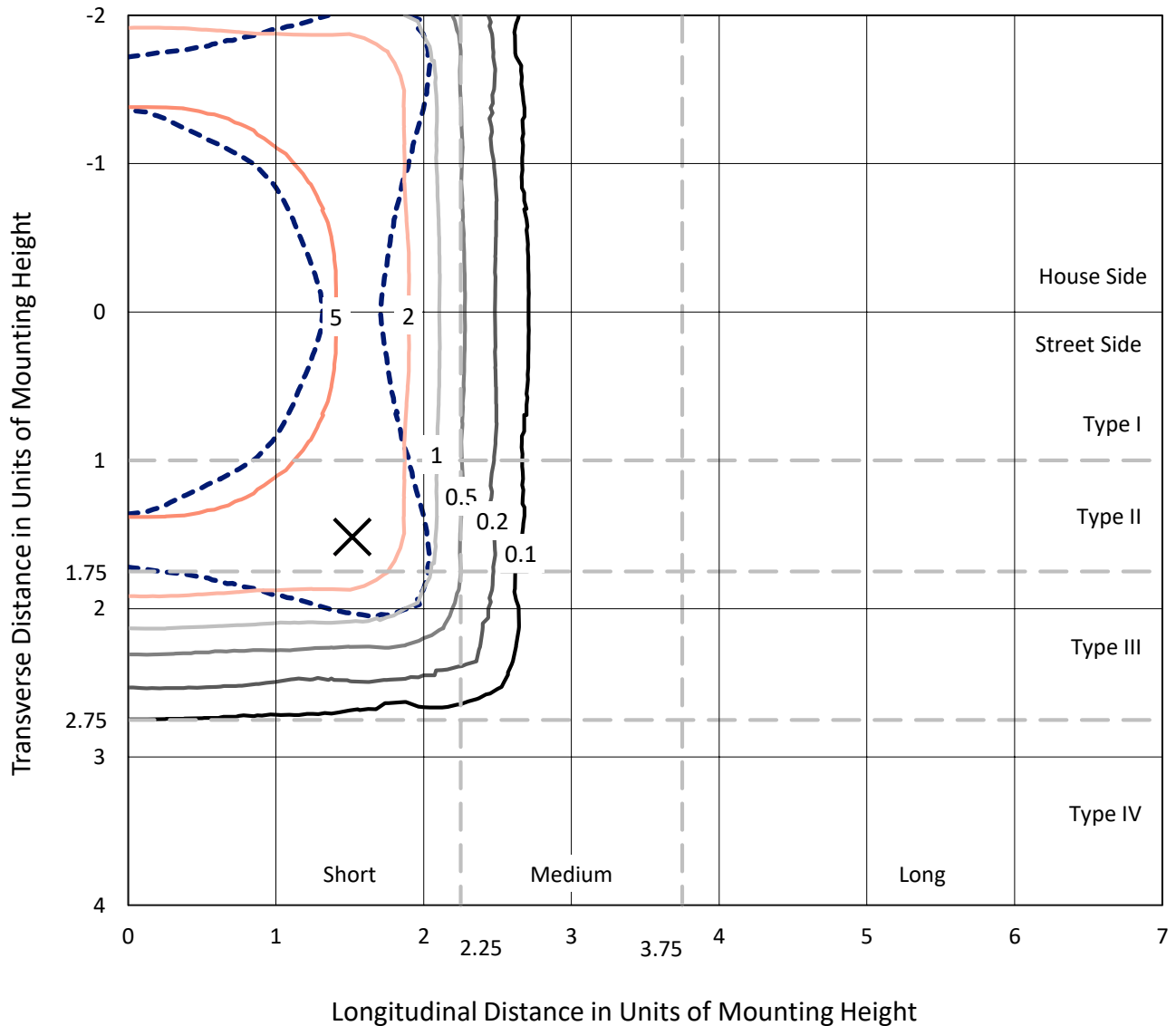


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

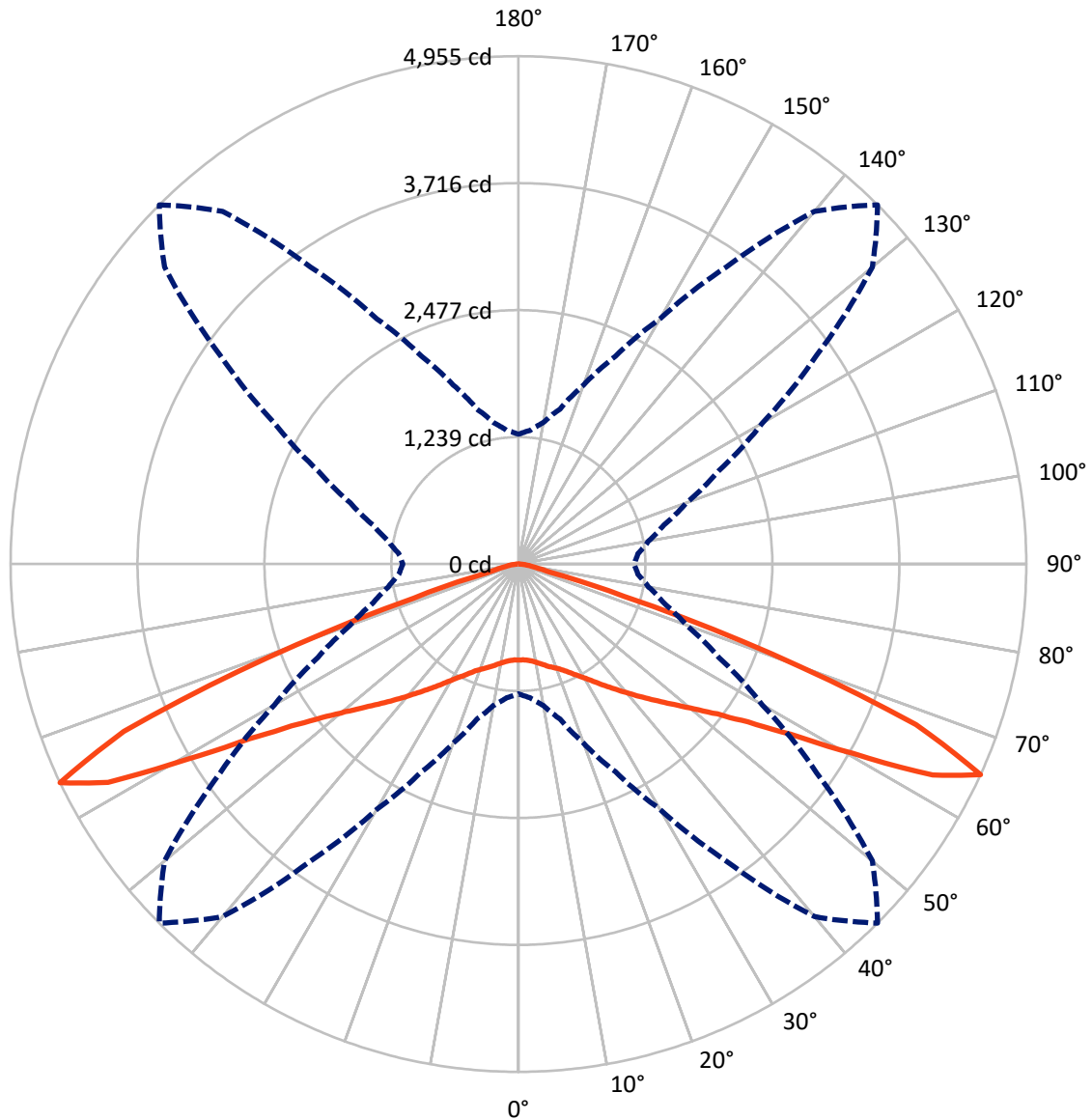


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4138.5 | 0.0 | 4138.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4138.5 | 0.0 | 4138.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8277.0 | 0.0 | 8277.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.3 | 1.1 |
| 10°-20° | 292.8 | 3.5 |
| 20°-30° | 547.4 | 6.6 |
| 30°-40° | 925.8 | 11.2 |
| 40°-50° | 1513.8 | 18.3 |
| 50°-60° | 2407.2 | 29.1 |
| 60°-70° | 2176.0 | 26.3 |
| 70°-80° | 275.4 | 3.3 |
| 80°-90° | 47.4 | 0.6 |
| 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° | 8277.0 | 100.0 |
| 0°-180° | 8277.0 | 100.0 |



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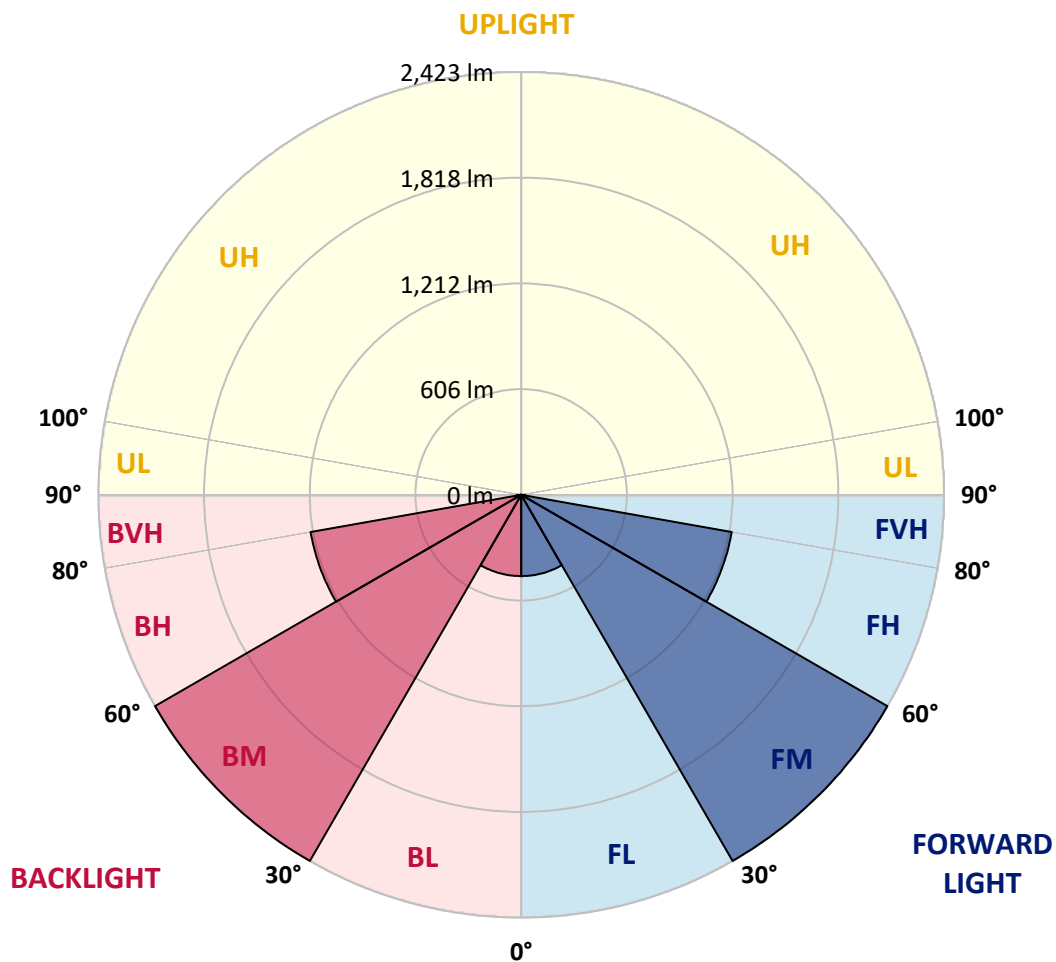
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 465.7 | 5.6 | | | |
| FM | (30°-60°) | 2423.4 | 29.3 | | | |
| FH | (60°-80°) | 1225.7 | 14.8 | | | G1/1800 |
| FVH | (80°-90°) | 23.7 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 465.7 | 5.6 | B1/500 | | |
| BM | (30°-60°) | 2423.4 | 29.3 | B2/2500 | | |
| BH | (60°-80°) | 1225.7 | 14.8 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 23.7 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 936.5 | 936.5 | 936.5 | 936.5 | 936.5 | 936.5 | 936.5 | 936.5 | 936.5 | 936.5 | 936.5 |
| 2.5° | 937.3 | 938.1 | 938.9 | 938.1 | 938.9 | 937.7 | 936.9 | 938.1 | 936.9 | 935.8 | 936.5 |
| 5° | 945.5 | 945.9 | 945.9 | 944.7 | 945.9 | 945.1 | 943.9 | 945.5 | 944.3 | 943.1 | 943.9 |
| 7.5° | 959.0 | 960.6 | 959.4 | 958.3 | 959.0 | 958.3 | 957.5 | 957.9 | 957.5 | 956.3 | 956.7 |
| 10° | 977.2 | 978.4 | 977.6 | 977.2 | 978.0 | 977.6 | 976.9 | 976.5 | 976.9 | 975.7 | 975.7 |
| 12.5° | 999.3 | 999.0 | 998.6 | 999.0 | 1000.1 | 1000.1 | 999.7 | 1000.1 | 1000.9 | 1001.3 | 1000.5 |
| 15° | 1021.1 | 1021.8 | 1021.8 | 1021.8 | 1024.2 | 1026.1 | 1027.3 | 1028.0 | 1029.6 | 1030.0 | 1028.4 |
| 17.5° | 1048.2 | 1048.2 | 1047.8 | 1048.2 | 1050.5 | 1053.6 | 1054.8 | 1056.3 | 1057.9 | 1059.0 | 1057.1 |
| 20° | 1078.4 | 1079.2 | 1079.2 | 1080.0 | 1083.1 | 1086.6 | 1086.6 | 1087.3 | 1086.6 | 1087.3 | 1086.2 |
| 22.5° | 1115.3 | 1117.6 | 1117.6 | 1118.0 | 1121.1 | 1125.3 | 1124.2 | 1125.3 | 1123.4 | 1124.9 | 1123.4 |
| 25° | 1163.3 | 1166.8 | 1166.0 | 1166.0 | 1168.4 | 1171.1 | 1171.5 | 1173.8 | 1173.4 | 1175.3 | 1174.2 |
| 27.5° | 1217.6 | 1223.0 | 1224.6 | 1224.2 | 1225.7 | 1228.4 | 1229.2 | 1231.9 | 1230.4 | 1231.9 | 1231.2 |
| 30° | 1282.7 | 1285.0 | 1288.1 | 1289.3 | 1291.2 | 1294.0 | 1294.0 | 1294.3 | 1292.4 | 1294.7 | 1295.9 |
| 32.5° | 1350.2 | 1354.4 | 1357.5 | 1364.5 | 1368.0 | 1369.9 | 1369.5 | 1370.3 | 1368.4 | 1371.5 | 1373.8 |
| 35° | 1439.3 | 1442.4 | 1447.5 | 1452.9 | 1457.5 | 1457.2 | 1456.0 | 1456.4 | 1456.4 | 1459.1 | 1461.4 |
| 37.5° | 1546.7 | 1547.5 | 1554.1 | 1561.8 | 1564.1 | 1561.8 | 1554.8 | 1553.3 | 1549.8 | 1553.3 | 1557.2 |
| 40° | 1660.3 | 1663.0 | 1676.2 | 1681.2 | 1682.4 | 1678.1 | 1668.0 | 1662.2 | 1654.5 | 1658.7 | 1664.2 |
| 42.5° | 1779.3 | 1784.7 | 1796.7 | 1805.6 | 1809.5 | 1806.8 | 1792.9 | 1783.9 | 1773.9 | 1776.2 | 1781.6 |
| 45° | 1911.1 | 1917.7 | 1934.7 | 1943.3 | 1950.6 | 1946.4 | 1932.8 | 1919.2 | 1903.3 | 1904.5 | 1913.0 |
| 47.5° | 2058.4 | 2065.0 | 2087.1 | 2101.4 | 2105.3 | 2104.5 | 2089.4 | 2070.8 | 2049.1 | 2048.3 | 2055.7 |
| 50° | 2223.5 | 2230.1 | 2257.6 | 2279.7 | 2291.0 | 2289.8 | 2272.0 | 2245.6 | 2219.3 | 2219.6 | 2229.0 |
| 52.5° | 2384.8 | 2392.9 | 2421.6 | 2459.6 | 2481.7 | 2497.6 | 2486.7 | 2461.9 | 2429.8 | 2430.5 | 2439.1 |
| 55° | 2536.0 | 2549.5 | 2582.5 | 2634.0 | 2675.1 | 2719.7 | 2732.5 | 2731.7 | 2712.3 | 2717.8 | 2726.3 |
| 57.5° | 2609.2 | 2629.4 | 2680.2 | 2761.6 | 2845.3 | 2936.0 | 3012.8 | 3070.1 | 3094.6 | 3131.4 | 3122.9 |
| 60° | 2470.5 | 2502.6 | 2577.4 | 2697.2 | 2862.7 | 3051.9 | 3254.7 | 3452.7 | 3621.8 | 3749.3 | 3676.0 |
| 62.5° | 2022.7 | 2064.6 | 2155.3 | 2308.8 | 2559.2 | 2862.0 | 3250.0 | 3718.3 | 4228.4 | 4536.2 | 4316.4 |
| 65° | 1265.7 | 1309.1 | 1401.3 | 1565.7 | 1858.8 | 2235.2 | 2761.6 | 3537.6 | 4490.9 | 4954.9 | 4507.5 |
| 67.5° | 493.5 | 517.1 | 567.1 | 672.2 | 892.4 | 1227.3 | 1755.6 | 2636.4 | 3776.4 | 4183.1 | 3706.3 |
| 70° | 247.3 | 249.6 | 258.9 | 278.3 | 325.6 | 422.9 | 643.5 | 1222.2 | 2165.8 | 2615.8 | 2087.8 |
| 72.5° | 178.7 | 179.1 | 183.7 | 192.3 | 207.4 | 229.1 | 271.0 | 374.1 | 704.3 | 1076.5 | 660.2 |
| 75° | 136.8 | 138.4 | 141.1 | 145.8 | 153.9 | 164.7 | 179.9 | 215.5 | 267.1 | 309.7 | 260.5 |
| 77.5° | 105.4 | 108.5 | 110.5 | 114.7 | 119.8 | 127.1 | 131.4 | 145.0 | 168.6 | 177.5 | 174.8 |
| 80° | 80.2 | 83.0 | 87.2 | 90.7 | 94.2 | 97.7 | 96.1 | 102.3 | 114.7 | 122.1 | 118.2 |
| 82.5° | 51.2 | 54.3 | 66.7 | 69.8 | 71.3 | 73.7 | 70.9 | 71.3 | 76.8 | 81.4 | 76.8 |
| 85° | 32.9 | 34.9 | 42.3 | 46.1 | 46.5 | 48.1 | 46.9 | 44.2 | 44.2 | 40.3 | 45.4 |
| 87.5° | 15.1 | 15.5 | 19.0 | 22.5 | 23.3 | 20.9 | 20.5 | 19.8 | 15.9 | 15.1 | 16.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 936.5 | 936.5 | 936.5 | 936.5 | 936.5 | 936.5 | 936.5 | 936.5 |
| 2.5° | 936.2 | 936.9 | 937.3 | 938.5 | 938.9 | 938.9 | 939.3 | 940.0 |
| 5° | 943.5 | 944.7 | 945.1 | 946.6 | 947.0 | 946.6 | 947.4 | 947.8 |
| 7.5° | 956.7 | 958.6 | 959.4 | 961.0 | 959.8 | 961.4 | 961.7 | 961.7 |
| 10° | 976.1 | 978.0 | 978.4 | 980.0 | 979.2 | 980.0 | 980.0 | 979.2 |
| 12.5° | 1001.7 | 1002.1 | 1000.9 | 1002.1 | 1000.5 | 1001.3 | 1000.1 | 999.3 |
| 15° | 1030.0 | 1028.8 | 1026.1 | 1026.1 | 1023.8 | 1024.2 | 1023.8 | 1023.4 |
| 17.5° | 1057.5 | 1055.2 | 1053.2 | 1052.5 | 1050.5 | 1050.1 | 1049.0 | 1049.0 |
| 20° | 1087.7 | 1086.6 | 1085.4 | 1083.9 | 1081.9 | 1080.0 | 1079.6 | 1080.4 |
| 22.5° | 1124.2 | 1123.8 | 1123.8 | 1123.0 | 1120.3 | 1118.4 | 1117.2 | 1117.2 |
| 25° | 1173.0 | 1169.5 | 1169.5 | 1169.1 | 1168.0 | 1166.8 | 1164.5 | 1165.6 |
| 27.5° | 1228.1 | 1226.1 | 1227.7 | 1227.3 | 1226.1 | 1226.1 | 1224.6 | 1224.6 |
| 30° | 1295.9 | 1295.1 | 1297.4 | 1295.5 | 1291.6 | 1291.2 | 1289.7 | 1287.8 |
| 32.5° | 1374.2 | 1373.4 | 1376.9 | 1374.6 | 1368.4 | 1364.9 | 1361.8 | 1360.2 |
| 35° | 1461.4 | 1461.8 | 1466.1 | 1464.5 | 1457.5 | 1455.2 | 1449.8 | 1449.0 |
| 37.5° | 1556.8 | 1563.0 | 1570.3 | 1571.9 | 1566.1 | 1564.5 | 1558.7 | 1555.6 |
| 40° | 1668.8 | 1676.9 | 1688.2 | 1690.9 | 1684.7 | 1683.5 | 1675.4 | 1671.1 |
| 42.5° | 1788.2 | 1802.2 | 1816.1 | 1818.4 | 1812.2 | 1806.0 | 1798.3 | 1795.2 |
| 45° | 1921.5 | 1938.2 | 1956.4 | 1961.1 | 1951.8 | 1944.4 | 1934.3 | 1934.3 |
| 47.5° | 2071.2 | 2092.1 | 2112.7 | 2125.4 | 2116.9 | 2109.2 | 2097.2 | 2089.4 |
| 50° | 2247.9 | 2276.6 | 2303.4 | 2316.6 | 2303.0 | 2288.3 | 2267.3 | 2260.3 |
| 52.5° | 2469.7 | 2500.7 | 2523.9 | 2517.0 | 2496.0 | 2475.5 | 2452.6 | 2443.3 |
| 55° | 2752.7 | 2763.1 | 2763.1 | 2736.8 | 2694.9 | 2660.4 | 2624.3 | 2612.3 |
| 57.5° | 3106.6 | 3066.3 | 3004.2 | 2925.5 | 2826.7 | 2740.6 | 2682.5 | 2655.0 |
| 60° | 3522.5 | 3328.7 | 3109.7 | 2894.5 | 2717.8 | 2572.0 | 2485.6 | 2446.0 |
| 62.5° | 3799.7 | 3292.6 | 2853.8 | 2508.4 | 2254.1 | 2078.5 | 1959.2 | 1912.6 |
| 65° | 3551.2 | 2746.1 | 2158.4 | 1745.2 | 1468.0 | 1289.3 | 1171.1 | 1127.7 |
| 67.5° | 2601.1 | 1720.8 | 1149.4 | 823.7 | 603.6 | 481.5 | 433.0 | 412.8 |
| 70° | 1167.6 | 605.9 | 371.4 | 290.0 | 250.0 | 229.5 | 220.6 | 217.5 |
| 72.5° | 352.0 | 254.7 | 214.8 | 193.8 | 177.9 | 167.8 | 160.5 | 159.7 |
| 75° | 212.4 | 176.8 | 157.0 | 144.6 | 134.5 | 126.4 | 122.5 | 121.3 |
| 77.5° | 148.5 | 129.9 | 120.6 | 111.6 | 103.9 | 97.7 | 94.2 | 91.5 |
| 80° | 104.3 | 95.4 | 91.1 | 86.1 | 81.0 | 75.2 | 70.2 | 67.8 |
| 82.5° | 69.8 | 67.8 | 67.8 | 64.7 | 60.5 | 55.0 | 45.0 | 42.6 |
| 85° | 45.0 | 44.6 | 45.4 | 44.2 | 41.1 | 35.3 | 29.1 | 27.5 |
| 87.5° | 20.9 | 21.3 | 23.6 | 23.3 | 22.5 | 18.6 | 14.7 | 14.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)