

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: P193239

Luminaire Tested: **GAN-AF-01-LED-U-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-T3R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6761 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

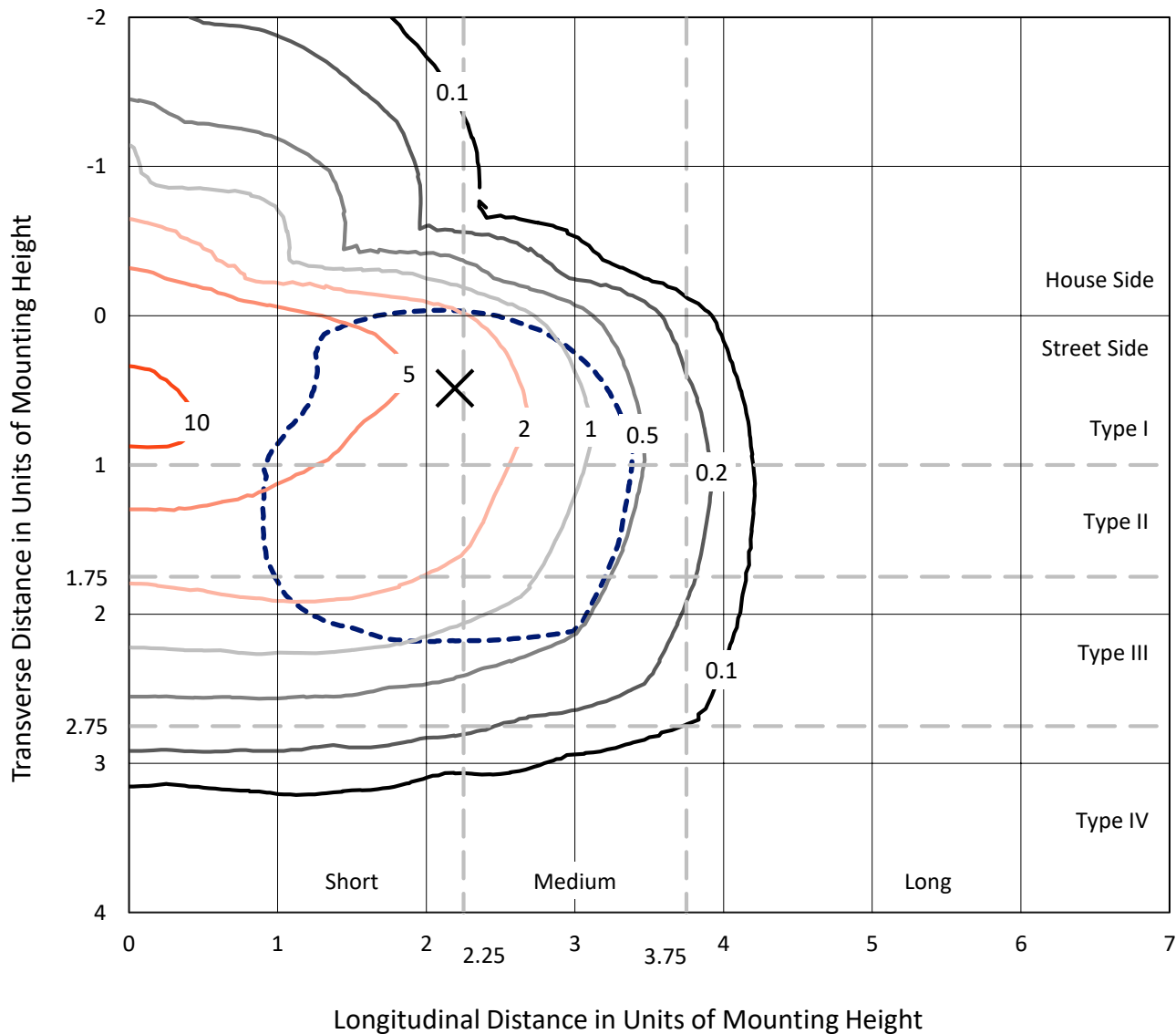


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

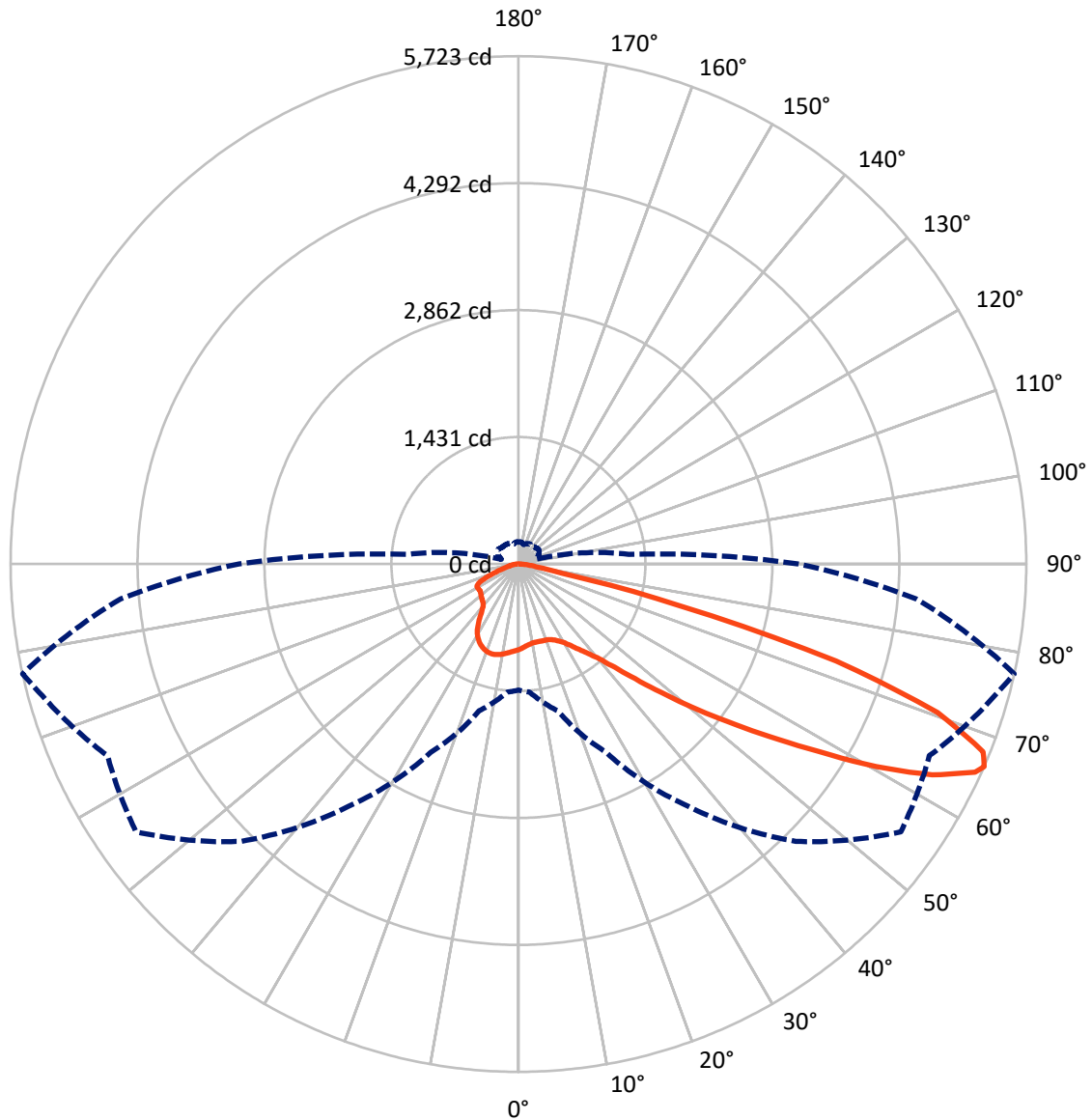


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1155.1 | 0.0 | 1155.1 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 5605.9 | 0.0 | 5605.9 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 6761.0 | 0.0 | 6761.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.1 | 1.3 |
| 10°-20° | 242.8 | 3.6 |
| 20°-30° | 414.4 | 6.1 |
| 30°-40° | 663.5 | 9.8 |
| 40°-50° | 1025.0 | 15.2 |
| 50°-60° | 1453.8 | 21.5 |
| 60°-70° | 1944.7 | 28.8 |
| 70°-80° | 844.6 | 12.5 |
| 80°-90° | 86.1 | 1.3 |
| 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° | 6761.0 | 100.0 |
| 0°-180° | 6761.0 | 100.0 |

Coefficient of Utilization



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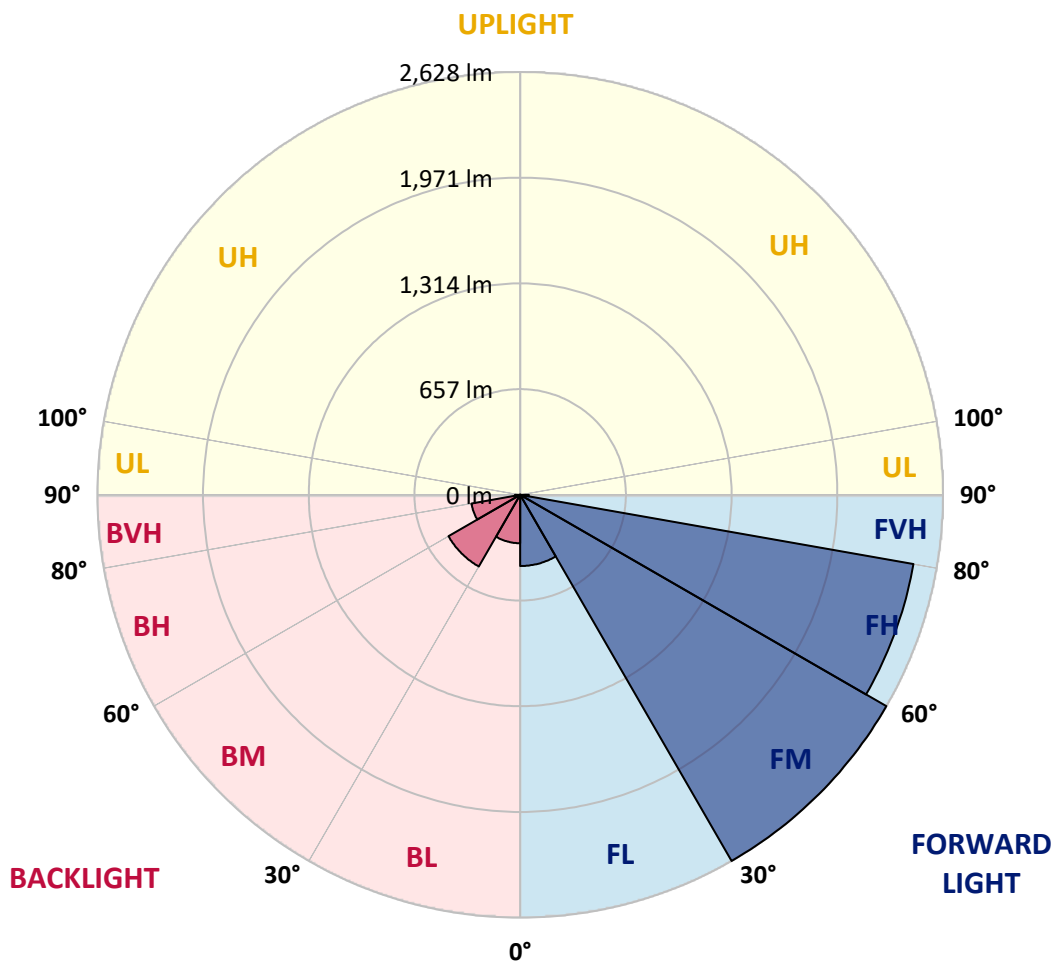
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 442.5 | 6.5 | | | |
| FM | (30°-60°) | 2627.7 | 38.9 | | | |
| FH | (60°-80°) | 2481.7 | 36.7 | | | G2/5000 |
| FVH | (80°-90°) | 54.0 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 300.8 | 4.4 | B1/500 | | |
| BM | (30°-60°) | 514.5 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 307.6 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 32.1 | 0.5 | | | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 |
| 2.5° | 852.3 | 858.0 | 862.8 | 867.3 | 876.3 | 890.9 | 907.8 | 921.6 | 941.4 | 945.3 | 955.8 |
| 5° | 774.0 | 774.0 | 777.8 | 784.6 | 796.7 | 818.8 | 841.8 | 872.4 | 915.6 | 925.8 | 953.9 |
| 7.5° | 736.0 | 736.3 | 738.6 | 744.3 | 754.9 | 774.9 | 800.3 | 836.4 | 894.9 | 911.8 | 959.7 |
| 10° | 750.1 | 746.9 | 742.1 | 739.2 | 740.8 | 752.6 | 776.7 | 816.8 | 882.0 | 903.7 | 972.4 |
| 12.5° | 828.6 | 822.6 | 806.0 | 783.9 | 762.8 | 754.2 | 768.3 | 807.5 | 876.6 | 901.8 | 989.4 |
| 15° | 957.1 | 954.5 | 923.6 | 877.9 | 826.8 | 783.9 | 774.3 | 804.0 | 877.3 | 904.0 | 1009.4 |
| 17.5° | 1118.0 | 1114.6 | 1073.7 | 1007.3 | 923.9 | 840.5 | 795.7 | 807.0 | 879.4 | 907.8 | 1029.0 |
| 20° | 1280.7 | 1269.8 | 1225.8 | 1146.5 | 1039.5 | 917.4 | 831.3 | 814.3 | 882.4 | 912.0 | 1049.4 |
| 22.5° | 1402.2 | 1393.2 | 1353.5 | 1276.5 | 1153.2 | 1006.6 | 878.8 | 827.1 | 891.5 | 924.3 | 1074.7 |
| 25° | 1508.8 | 1509.4 | 1470.1 | 1395.7 | 1268.3 | 1101.2 | 940.1 | 861.3 | 915.3 | 949.1 | 1109.1 |
| 27.5° | 1640.7 | 1633.0 | 1596.3 | 1522.5 | 1381.9 | 1196.7 | 1014.3 | 908.2 | 950.3 | 984.5 | 1154.6 |
| 30° | 1798.5 | 1793.1 | 1750.6 | 1666.9 | 1508.1 | 1299.2 | 1098.9 | 962.8 | 995.7 | 1031.2 | 1213.9 |
| 32.5° | 1984.1 | 1981.5 | 1937.5 | 1829.9 | 1653.8 | 1420.0 | 1198.2 | 1035.0 | 1063.4 | 1100.2 | 1299.2 |
| 35° | 2202.0 | 2202.3 | 2150.2 | 2020.9 | 1813.2 | 1560.5 | 1311.0 | 1128.0 | 1145.9 | 1184.3 | 1400.8 |
| 37.5° | 2336.2 | 2352.5 | 2333.0 | 2201.0 | 1993.7 | 1717.7 | 1457.3 | 1251.3 | 1239.8 | 1278.5 | 1509.8 |
| 40° | 2364.9 | 2384.7 | 2446.4 | 2379.2 | 2195.6 | 1890.8 | 1587.0 | 1369.8 | 1355.5 | 1402.7 | 1650.0 |
| 42.5° | 2324.7 | 2352.2 | 2482.5 | 2529.8 | 2409.9 | 2104.3 | 1761.5 | 1545.8 | 1527.7 | 1591.2 | 1824.4 |
| 45° | 2300.7 | 2321.1 | 2471.9 | 2608.0 | 2595.9 | 2345.5 | 1983.5 | 1766.9 | 1760.1 | 1843.5 | 2025.6 |
| 47.5° | 2259.2 | 2277.7 | 2422.8 | 2626.3 | 2705.2 | 2566.5 | 2250.2 | 2037.1 | 2050.2 | 2159.5 | 2252.8 |
| 50° | 2281.6 | 2289.2 | 2367.7 | 2579.9 | 2736.7 | 2728.4 | 2548.3 | 2350.1 | 2395.0 | 2531.3 | 2509.9 |
| 52.5° | 2278.4 | 2298.2 | 2361.4 | 2503.9 | 2740.9 | 2828.4 | 2841.9 | 2699.4 | 2793.6 | 2950.1 | 2795.2 |
| 55° | 1842.0 | 1878.3 | 2286.4 | 2484.7 | 2755.6 | 2926.5 | 3103.2 | 3067.4 | 3243.1 | 3425.5 | 3117.1 |
| 57.5° | 1758.8 | 1781.9 | 2008.0 | 2525.0 | 2833.5 | 3113.7 | 3393.8 | 3472.5 | 3766.3 | 3978.1 | 3509.5 |
| 60° | 1742.5 | 1771.1 | 2005.2 | 2574.1 | 2991.6 | 3418.8 | 3824.8 | 3962.9 | 4403.0 | 4634.9 | 3964.4 |
| 62.5° | 1691.8 | 1722.5 | 1986.4 | 2567.8 | 3216.3 | 3840.8 | 4376.5 | 4484.1 | 5006.8 | 5232.3 | 4344.9 |
| 65° | 1530.8 | 1559.5 | 1832.8 | 2464.6 | 3367.7 | 4291.1 | 5029.4 | 4962.0 | 5483.4 | 5653.1 | 4534.6 |
| 66° | 1420.6 | 1448.7 | 1711.6 | 2343.2 | 3332.5 | 4419.0 | 5260.8 | 5109.9 | 5590.1 | 5723.0 | 4497.5 |
| 67.5° | 1219.0 | 1241.0 | 1476.5 | 2071.3 | 3145.7 | 4454.7 | 5455.4 | 5221.2 | 5601.2 | 5648.2 | 4285.8 |
| 70° | 770.2 | 776.7 | 959.7 | 1429.8 | 2381.2 | 3863.4 | 5159.1 | 4945.1 | 5139.3 | 5012.2 | 3592.9 |
| 72.5° | 334.2 | 331.9 | 460.6 | 727.4 | 1348.0 | 2592.4 | 4173.3 | 4080.4 | 4031.4 | 3741.5 | 2515.0 |
| 75° | 186.0 | 188.5 | 239.3 | 337.6 | 547.8 | 1273.3 | 2730.1 | 2612.5 | 2205.8 | 1882.2 | 1140.4 |
| 77.5° | 149.1 | 152.8 | 198.5 | 239.6 | 246.0 | 444.0 | 1277.5 | 1039.5 | 625.8 | 502.1 | 316.9 |
| 80° | 117.9 | 124.2 | 173.1 | 186.7 | 165.7 | 183.0 | 412.8 | 330.0 | 247.6 | 227.2 | 164.2 |
| 82.5° | 93.3 | 97.8 | 148.6 | 141.2 | 116.0 | 123.4 | 197.8 | 192.7 | 161.0 | 146.6 | 94.8 |
| 85° | 67.0 | 75.4 | 122.1 | 106.4 | 76.1 | 83.0 | 131.3 | 125.8 | 92.4 | 75.4 | 41.8 |
| 87.5° | 27.5 | 35.7 | 86.2 | 70.6 | 42.5 | 38.7 | 65.4 | 61.6 | 43.8 | 31.9 | 20.8 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 | 963.4 |
| 2.5° | 962.5 | 970.2 | 980.0 | 986.2 | 989.4 | 991.5 | 995.2 | 994.8 | 995.7 | 996.0 | 997.3 |
| 5° | 968.9 | 981.7 | 996.0 | 999.9 | 999.9 | 996.3 | 992.8 | 987.1 | 984.9 | 984.2 | 984.9 |
| 7.5° | 985.5 | 999.6 | 1012.1 | 1007.6 | 998.0 | 983.9 | 965.8 | 949.7 | 941.2 | 938.2 | 937.6 |
| 10° | 1006.6 | 1023.5 | 1028.6 | 1011.7 | 983.6 | 949.7 | 913.6 | 887.4 | 872.4 | 868.3 | 867.0 |
| 12.5° | 1032.2 | 1048.2 | 1041.1 | 1005.3 | 953.3 | 898.6 | 848.8 | 807.0 | 775.6 | 765.7 | 765.2 |
| 15° | 1060.3 | 1072.7 | 1048.2 | 985.5 | 907.8 | 827.4 | 738.6 | 666.4 | 627.3 | 614.9 | 614.0 |
| 17.5° | 1086.5 | 1092.8 | 1044.0 | 951.0 | 841.1 | 710.7 | 592.9 | 537.3 | 523.9 | 527.0 | 527.7 |
| 20° | 1108.9 | 1108.9 | 1029.9 | 901.5 | 736.0 | 557.1 | 482.7 | 481.8 | 491.3 | 501.0 | 502.8 |
| 22.5° | 1133.4 | 1118.7 | 1005.3 | 831.6 | 587.2 | 455.8 | 445.0 | 454.0 | 464.8 | 475.4 | 476.9 |
| 25° | 1163.7 | 1126.7 | 971.1 | 725.5 | 461.6 | 414.0 | 418.1 | 425.6 | 430.9 | 437.7 | 438.5 |
| 27.5° | 1197.6 | 1137.0 | 926.1 | 579.5 | 400.6 | 387.8 | 391.0 | 393.6 | 392.9 | 395.5 | 396.2 |
| 30° | 1238.2 | 1148.8 | 864.5 | 453.0 | 375.3 | 365.5 | 359.7 | 357.5 | 357.5 | 361.6 | 363.2 |
| 32.5° | 1292.5 | 1166.4 | 776.0 | 388.1 | 363.2 | 349.5 | 330.9 | 322.7 | 325.8 | 339.9 | 343.1 |
| 35° | 1352.2 | 1185.1 | 656.1 | 366.1 | 360.7 | 342.1 | 313.3 | 298.1 | 298.4 | 311.5 | 315.6 |
| 37.5° | 1417.4 | 1209.2 | 524.9 | 361.9 | 366.4 | 342.4 | 304.1 | 283.0 | 274.5 | 274.5 | 276.0 |
| 40° | 1500.7 | 1233.7 | 424.9 | 364.8 | 378.6 | 346.3 | 299.4 | 271.2 | 246.9 | 247.6 | 248.9 |
| 42.5° | 1609.4 | 1254.9 | 371.2 | 370.9 | 393.3 | 351.4 | 299.1 | 255.5 | 234.5 | 248.9 | 262.0 |
| 45° | 1730.1 | 1265.3 | 347.6 | 376.3 | 405.1 | 354.5 | 293.9 | 253.1 | 236.1 | 278.8 | 303.8 |
| 47.5° | 1869.1 | 1259.3 | 334.5 | 378.2 | 408.0 | 354.5 | 288.1 | 259.1 | 247.3 | 323.0 | 352.1 |
| 50° | 2021.6 | 1241.7 | 321.7 | 374.4 | 407.0 | 354.0 | 293.6 | 265.2 | 251.4 | 330.6 | 350.7 |
| 52.5° | 2200.7 | 1227.0 | 308.2 | 366.1 | 400.3 | 350.4 | 299.9 | 262.6 | 238.3 | 300.6 | 314.6 |
| 55° | 2405.2 | 1231.2 | 293.3 | 354.2 | 389.7 | 343.7 | 297.7 | 252.4 | 224.5 | 264.9 | 273.4 |
| 57.5° | 2666.5 | 1280.7 | 275.4 | 339.2 | 375.3 | 332.5 | 289.7 | 247.6 | 220.3 | 240.3 | 245.3 |
| 60° | 2958.0 | 1367.0 | 253.1 | 324.3 | 357.5 | 314.6 | 283.6 | 249.7 | 222.4 | 238.3 | 240.9 |
| 62.5° | 3172.2 | 1417.1 | 233.9 | 302.2 | 333.2 | 294.9 | 276.0 | 252.7 | 227.5 | 245.1 | 244.4 |
| 65° | 3230.4 | 1334.7 | 209.9 | 270.0 | 300.3 | 274.1 | 266.4 | 255.8 | 229.7 | 250.4 | 247.6 |
| 66° | 3148.9 | 1245.9 | 199.3 | 254.9 | 283.6 | 263.9 | 261.6 | 255.5 | 228.7 | 251.1 | 246.3 |
| 67.5° | 2951.1 | 1063.7 | 181.2 | 232.8 | 257.2 | 248.6 | 253.9 | 252.7 | 226.1 | 250.4 | 243.7 |
| 70° | 2406.8 | 725.8 | 154.9 | 193.9 | 214.0 | 218.8 | 239.3 | 242.4 | 217.9 | 239.3 | 224.5 |
| 72.5° | 1681.6 | 442.2 | 137.0 | 150.4 | 173.1 | 186.7 | 219.2 | 228.5 | 206.7 | 208.9 | 194.9 |
| 75° | 812.7 | 234.8 | 124.2 | 116.6 | 134.5 | 155.9 | 194.9 | 209.2 | 189.1 | 174.7 | 169.7 |
| 77.5° | 253.4 | 143.4 | 105.4 | 94.0 | 105.4 | 125.8 | 162.9 | 183.3 | 168.4 | 146.3 | 144.4 |
| 80° | 136.1 | 105.4 | 81.2 | 75.4 | 83.4 | 98.7 | 128.1 | 153.1 | 144.7 | 131.3 | 117.2 |
| 82.5° | 89.8 | 68.4 | 60.1 | 58.5 | 63.6 | 75.4 | 95.2 | 126.8 | 126.8 | 112.4 | 81.7 |
| 85° | 46.3 | 41.8 | 41.2 | 41.2 | 44.4 | 50.1 | 64.9 | 97.8 | 104.2 | 59.4 | 49.1 |
| 87.5° | 23.1 | 23.9 | 22.4 | 23.3 | 24.9 | 24.6 | 31.0 | 49.1 | 58.8 | 36.0 | 30.0 |
| 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)