

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: P268217

Luminaire Tested: **GAN-AF-01-LED-U-T2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5313.8 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

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: 28.75 FT

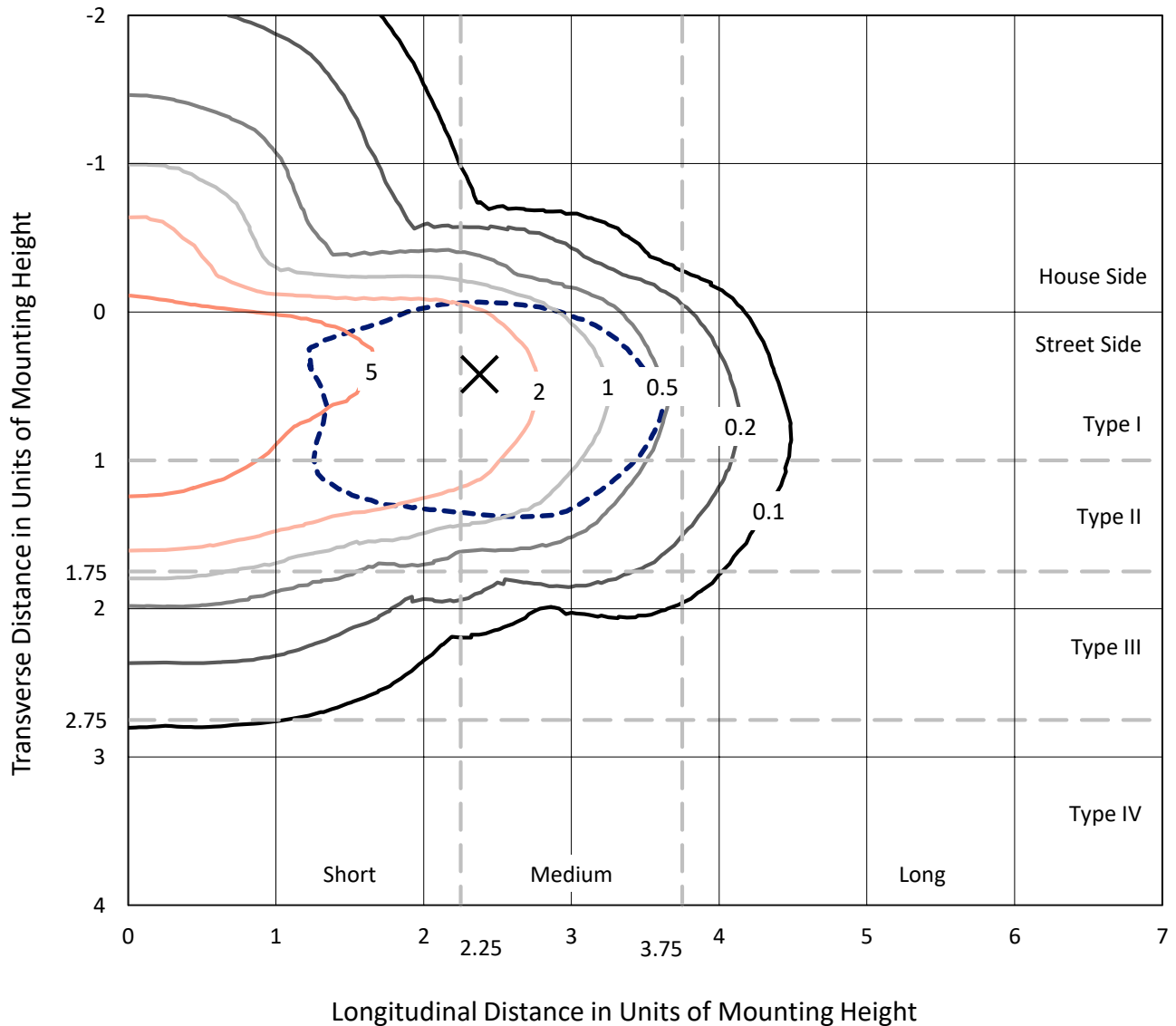


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Iso-Footcandle Lines of Horizontal Illumination

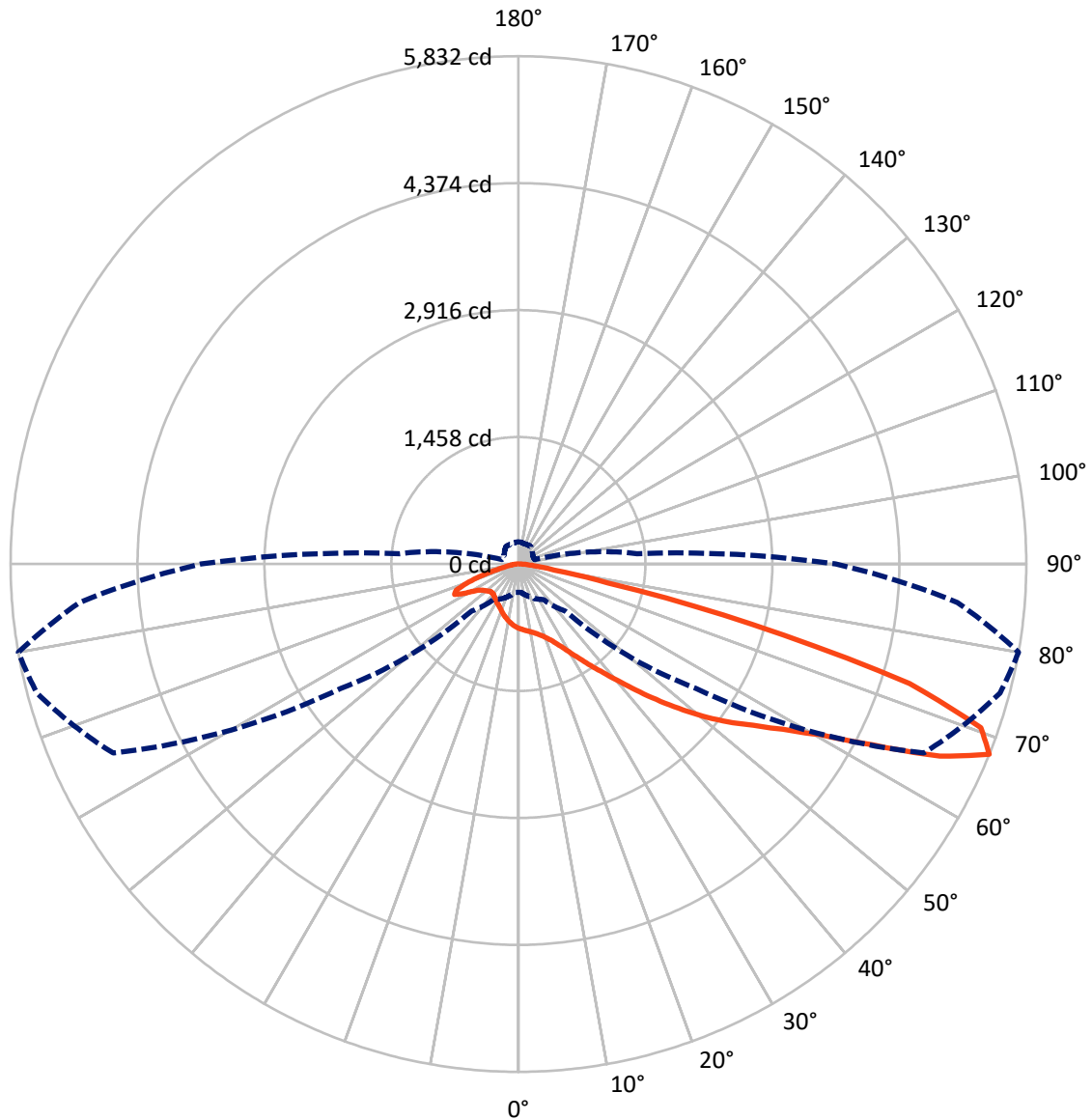
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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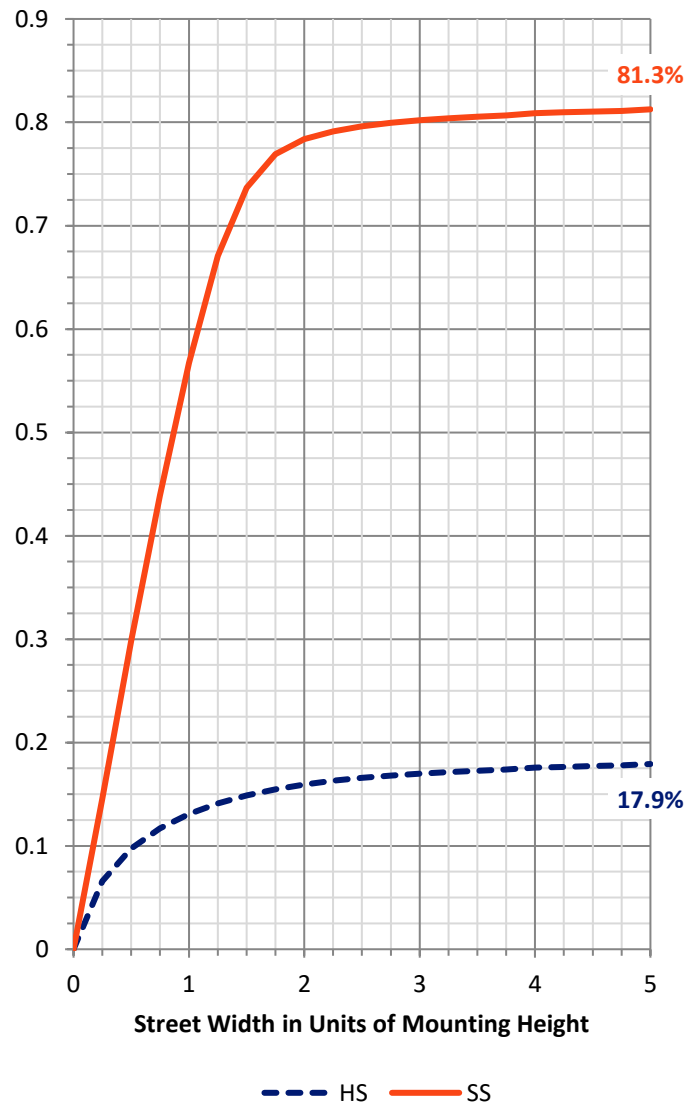
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 978.6 | 0.0 | 978.6 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 4335.2 | 0.0 | 4335.2 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 5313.8 | 0.0 | 5313.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.1 | 1.3 |
| 10°-20° | 196.2 | 3.7 |
| 20°-30° | 324.7 | 6.1 |
| 30°-40° | 531.1 | 10.0 |
| 40°-50° | 857.6 | 16.1 |
| 50°-60° | 1238.1 | 23.3 |
| 60°-70° | 1366.3 | 25.7 |
| 70°-80° | 629.8 | 11.9 |
| 80°-90° | 101.9 | 1.9 |
| 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° | 5313.8 | 100.0 |
| 0°-180° | 5313.8 | 100.0 |



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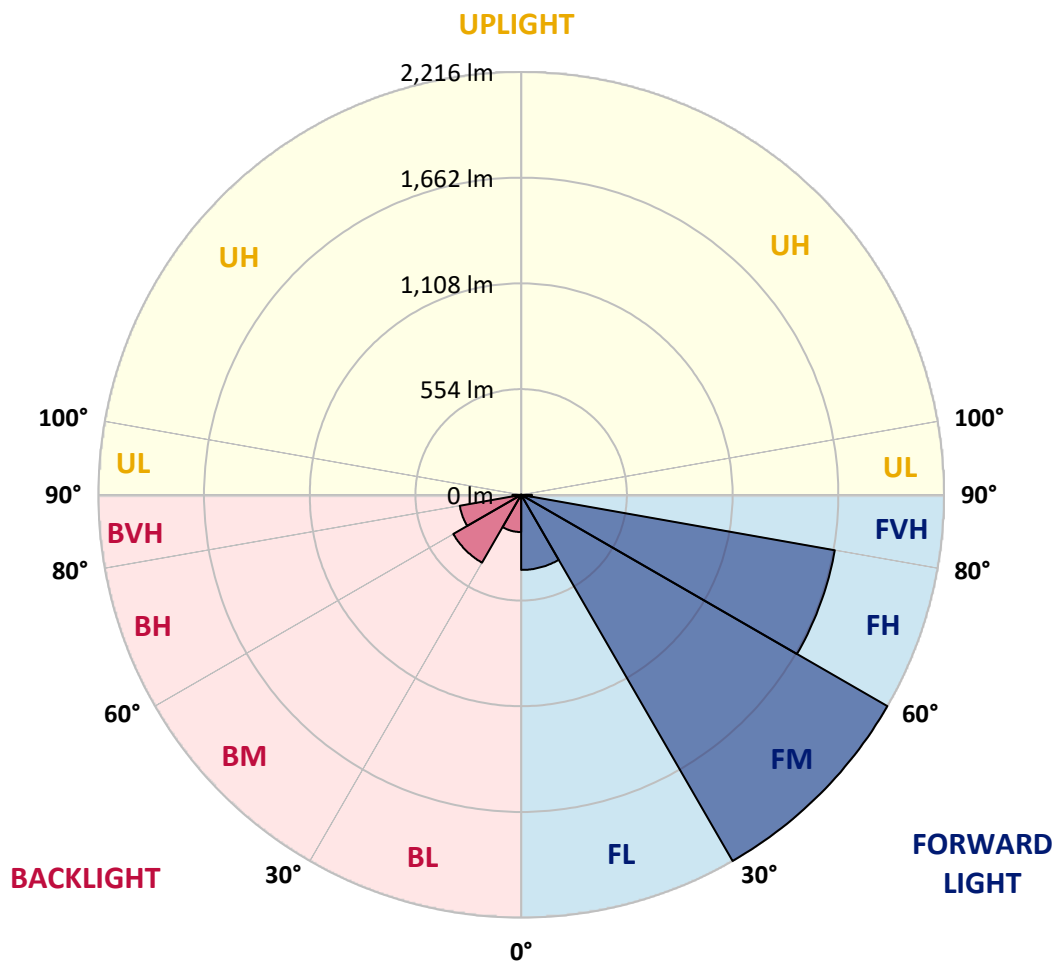
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 393.7 | 7.4 | | | |
| FM | (30°-60°) | 2216.2 | 41.7 | | | |
| FH | (60°-80°) | 1669.2 | 31.4 | | | G1/1800 |
| FVH | (80°-90°) | 56.0 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 195.2 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 410.6 | 7.7 | B1/1000 | | |
| BH | (60°-80°) | 326.9 | 6.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 45.9 | 0.9 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 |
| 2.5° | 807.5 | 802.8 | 803.7 | 802.4 | 798.5 | 791.5 | 784.3 | 770.9 | 757.1 | 749.7 | 743.9 |
| 5° | 875.0 | 873.7 | 872.0 | 867.8 | 857.8 | 843.7 | 826.1 | 802.5 | 777.3 | 763.9 | 751.1 |
| 7.5° | 925.6 | 924.7 | 922.4 | 919.8 | 910.2 | 893.2 | 866.7 | 833.2 | 796.3 | 778.0 | 758.1 |
| 10° | 929.7 | 931.1 | 932.9 | 939.9 | 941.2 | 932.1 | 905.1 | 864.6 | 816.2 | 792.7 | 767.2 |
| 12.5° | 894.2 | 897.0 | 904.1 | 922.1 | 941.2 | 952.6 | 938.5 | 897.5 | 839.5 | 811.0 | 778.8 |
| 15° | 847.0 | 848.5 | 857.3 | 882.1 | 916.5 | 951.1 | 964.2 | 933.9 | 869.6 | 834.4 | 796.1 |
| 17.5° | 826.9 | 827.7 | 833.6 | 850.2 | 882.1 | 931.8 | 978.7 | 973.5 | 906.4 | 863.8 | 817.3 |
| 20° | 816.6 | 818.5 | 827.2 | 843.4 | 863.5 | 907.0 | 980.7 | 1016.1 | 950.3 | 900.5 | 843.9 |
| 22.5° | 845.8 | 844.9 | 848.1 | 856.3 | 873.2 | 899.4 | 979.2 | 1060.0 | 1006.5 | 947.5 | 878.7 |
| 25° | 913.4 | 916.5 | 910.9 | 901.7 | 907.2 | 925.6 | 987.5 | 1107.6 | 1076.4 | 1008.0 | 924.3 |
| 27.5° | 1010.1 | 1007.2 | 999.0 | 977.5 | 966.3 | 974.2 | 1015.3 | 1159.0 | 1163.6 | 1087.5 | 984.5 |
| 30° | 1106.4 | 1103.9 | 1096.1 | 1069.9 | 1047.0 | 1040.3 | 1069.2 | 1217.7 | 1267.5 | 1183.0 | 1058.2 |
| 32.5° | 1206.2 | 1203.5 | 1196.4 | 1170.1 | 1142.5 | 1127.3 | 1145.8 | 1285.7 | 1389.9 | 1297.1 | 1145.0 |
| 35° | 1329.4 | 1324.6 | 1309.0 | 1272.7 | 1245.5 | 1233.7 | 1242.4 | 1371.4 | 1531.2 | 1432.0 | 1250.4 |
| 37.5° | 1445.4 | 1452.9 | 1437.2 | 1387.1 | 1351.7 | 1347.5 | 1357.2 | 1475.6 | 1683.5 | 1583.0 | 1371.5 |
| 40° | 1561.8 | 1563.1 | 1548.9 | 1507.8 | 1471.6 | 1464.6 | 1489.0 | 1602.2 | 1863.2 | 1763.5 | 1518.9 |
| 42.5° | 1682.0 | 1684.7 | 1660.8 | 1623.0 | 1596.3 | 1597.5 | 1625.4 | 1750.6 | 2069.2 | 1976.1 | 1688.4 |
| 45° | 1824.6 | 1828.6 | 1802.4 | 1752.8 | 1728.3 | 1777.2 | 1765.8 | 1917.1 | 2295.3 | 2217.8 | 1882.9 |
| 47.5° | 1973.8 | 1979.8 | 1959.9 | 1913.3 | 1882.9 | 1950.2 | 1906.3 | 2101.4 | 2538.6 | 2477.0 | 2096.7 |
| 50° | 2055.1 | 2063.8 | 2083.1 | 2079.8 | 2073.2 | 2061.9 | 2063.0 | 2299.2 | 2789.4 | 2747.0 | 2316.5 |
| 52.5° | 2011.5 | 2011.1 | 2081.8 | 2167.6 | 2259.1 | 2266.0 | 2253.9 | 2507.7 | 3023.9 | 3010.9 | 2523.3 |
| 55° | 1811.6 | 1825.1 | 1932.2 | 2098.4 | 2348.3 | 2504.6 | 2540.1 | 2746.6 | 3254.0 | 3268.9 | 2733.5 |
| 57.5° | 1478.8 | 1490.1 | 1634.5 | 1866.0 | 2228.1 | 2646.3 | 2947.2 | 3093.7 | 3511.5 | 3581.1 | 3013.2 |
| 60° | 1003.0 | 1016.6 | 1169.7 | 1447.7 | 1904.1 | 2567.4 | 3334.6 | 3713.1 | 3819.7 | 3977.9 | 3405.6 |
| 62.5° | 589.4 | 601.7 | 726.5 | 913.2 | 1340.7 | 2200.3 | 3504.6 | 4594.6 | 4309.1 | 4576.7 | 4004.0 |
| 65° | 405.8 | 414.1 | 474.8 | 568.4 | 770.3 | 1481.9 | 3293.7 | 5203.0 | 5062.2 | 5318.5 | 4698.0 |
| 67.5° | 326.4 | 325.5 | 373.5 | 437.4 | 496.0 | 764.1 | 2490.7 | 5134.2 | 5724.5 | 5831.5 | 5058.3 |
| 70° | 269.0 | 267.9 | 300.6 | 353.5 | 396.3 | 430.4 | 1356.7 | 4332.6 | 5589.7 | 5633.0 | 4726.6 |
| 72.5° | 224.9 | 226.1 | 246.9 | 286.2 | 325.1 | 324.1 | 596.1 | 3047.9 | 4397.3 | 4697.5 | 3767.9 |
| 75° | 189.9 | 190.4 | 204.4 | 232.0 | 263.9 | 261.0 | 323.3 | 1651.3 | 2556.0 | 2765.2 | 2088.6 |
| 77.5° | 161.7 | 162.2 | 171.0 | 186.5 | 209.2 | 208.2 | 236.0 | 713.3 | 1066.3 | 1053.3 | 714.4 |
| 80° | 144.2 | 144.2 | 148.3 | 151.3 | 163.9 | 159.1 | 175.0 | 342.8 | 450.7 | 416.3 | 285.1 |
| 82.5° | 112.9 | 113.5 | 139.1 | 138.1 | 128.9 | 123.0 | 123.0 | 201.9 | 238.8 | 220.9 | 166.8 |
| 85° | 63.6 | 63.3 | 89.7 | 108.2 | 113.5 | 86.5 | 85.8 | 112.9 | 130.1 | 114.5 | 80.8 |
| 87.5° | 27.2 | 27.8 | 41.6 | 48.1 | 64.4 | 53.9 | 53.1 | 58.3 | 66.1 | 57.3 | 37.4 |
| 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° | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 | 738.2 |
| 2.5° | 738.4 | 731.7 | 716.8 | 698.3 | 681.5 | 670.5 | 660.6 | 646.2 | 646.9 | 637.0 | 629.6 |
| 5° | 738.0 | 723.9 | 689.3 | 648.2 | 608.7 | 580.2 | 558.7 | 539.4 | 534.8 | 525.6 | 520.1 |
| 7.5° | 738.4 | 715.5 | 657.4 | 591.8 | 542.8 | 506.7 | 488.4 | 478.2 | 475.8 | 472.7 | 473.0 |
| 10° | 740.4 | 707.9 | 622.3 | 539.0 | 487.6 | 463.9 | 459.4 | 462.4 | 466.2 | 467.2 | 467.5 |
| 12.5° | 744.5 | 701.0 | 583.9 | 491.8 | 453.0 | 445.7 | 453.4 | 464.1 | 471.2 | 474.6 | 474.2 |
| 15° | 753.9 | 695.8 | 547.0 | 454.9 | 434.1 | 438.0 | 452.0 | 467.2 | 477.4 | 482.1 | 482.4 |
| 17.5° | 764.1 | 688.3 | 509.1 | 426.6 | 419.9 | 429.7 | 447.4 | 465.1 | 477.7 | 482.8 | 483.9 |
| 20° | 777.5 | 678.8 | 469.4 | 405.5 | 406.6 | 417.8 | 434.2 | 452.0 | 466.0 | 470.4 | 472.5 |
| 22.5° | 795.0 | 668.7 | 434.5 | 388.2 | 391.3 | 399.9 | 412.9 | 428.2 | 440.3 | 442.3 | 444.2 |
| 25° | 818.5 | 657.6 | 406.8 | 372.4 | 373.9 | 378.7 | 387.3 | 396.6 | 405.0 | 402.6 | 404.4 |
| 27.5° | 850.2 | 648.2 | 386.1 | 358.2 | 355.8 | 356.8 | 361.3 | 364.2 | 368.6 | 362.0 | 362.8 |
| 30° | 887.3 | 638.1 | 370.1 | 345.6 | 339.0 | 337.3 | 338.2 | 339.7 | 343.2 | 334.3 | 333.0 |
| 32.5° | 930.6 | 625.8 | 355.3 | 334.6 | 325.5 | 321.8 | 322.3 | 326.4 | 339.6 | 334.1 | 331.1 |
| 35° | 980.7 | 611.8 | 339.6 | 322.5 | 316.3 | 311.1 | 310.5 | 323.6 | 362.6 | 359.2 | 356.5 |
| 37.5° | 1039.6 | 598.0 | 323.8 | 308.9 | 309.5 | 303.6 | 301.9 | 316.8 | 367.0 | 353.8 | 351.9 |
| 40° | 1114.3 | 590.6 | 310.5 | 294.6 | 301.1 | 300.4 | 296.7 | 304.3 | 337.8 | 313.4 | 310.3 |
| 42.5° | 1207.1 | 591.8 | 300.6 | 279.2 | 291.2 | 299.6 | 293.7 | 294.0 | 306.1 | 287.7 | 284.9 |
| 45° | 1321.3 | 604.0 | 293.6 | 266.8 | 279.9 | 298.7 | 292.8 | 288.5 | 289.7 | 279.9 | 278.4 |
| 47.5° | 1454.7 | 629.4 | 288.5 | 256.6 | 269.2 | 295.9 | 292.5 | 287.0 | 284.7 | 279.5 | 278.0 |
| 50° | 1603.0 | 666.4 | 284.9 | 246.9 | 259.5 | 291.2 | 292.8 | 285.4 | 282.7 | 280.7 | 279.9 |
| 52.5° | 1748.8 | 708.5 | 279.5 | 238.6 | 252.0 | 285.4 | 293.6 | 283.9 | 281.0 | 279.5 | 278.7 |
| 55° | 1911.2 | 761.0 | 271.0 | 231.6 | 245.6 | 278.0 | 293.6 | 281.4 | 278.4 | 278.7 | 278.4 |
| 57.5° | 2130.7 | 846.1 | 261.0 | 225.6 | 238.1 | 269.2 | 288.5 | 278.8 | 274.9 | 275.2 | 275.5 |
| 60° | 2473.8 | 996.0 | 249.0 | 219.5 | 228.7 | 258.7 | 281.8 | 273.2 | 269.2 | 270.2 | 270.5 |
| 62.5° | 2978.1 | 1215.9 | 233.3 | 210.7 | 218.6 | 247.5 | 272.4 | 265.8 | 261.9 | 264.6 | 264.6 |
| 65° | 3502.3 | 1410.0 | 213.9 | 199.3 | 208.2 | 235.1 | 260.6 | 256.6 | 252.8 | 258.7 | 258.4 |
| 67.5° | 3643.3 | 1366.6 | 194.7 | 187.0 | 197.7 | 221.6 | 246.4 | 244.2 | 242.3 | 252.8 | 252.2 |
| 70° | 3236.6 | 1097.1 | 176.8 | 174.5 | 186.3 | 206.9 | 231.3 | 231.3 | 230.0 | 237.8 | 236.0 |
| 72.5° | 2465.8 | 778.0 | 159.9 | 161.2 | 173.2 | 191.0 | 214.8 | 216.6 | 214.5 | 218.5 | 216.9 |
| 75° | 1320.0 | 445.2 | 142.8 | 146.6 | 156.9 | 174.7 | 196.5 | 198.3 | 197.0 | 196.6 | 197.4 |
| 77.5° | 438.7 | 217.7 | 125.0 | 130.9 | 140.0 | 158.0 | 177.3 | 180.2 | 177.1 | 176.5 | 176.2 |
| 80° | 195.4 | 136.8 | 105.5 | 112.9 | 121.1 | 138.9 | 157.3 | 159.5 | 156.1 | 160.8 | 154.9 |
| 82.5° | 125.6 | 90.0 | 84.5 | 92.9 | 100.7 | 119.8 | 137.1 | 137.6 | 134.4 | 156.1 | 133.2 |
| 85° | 60.9 | 55.8 | 63.6 | 71.1 | 78.0 | 94.2 | 113.5 | 113.7 | 105.9 | 96.6 | 93.2 |
| 87.5° | 30.4 | 32.5 | 42.4 | 49.1 | 52.6 | 64.6 | 82.6 | 81.0 | 77.8 | 70.6 | 65.1 |
| 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)