

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: P268238

Luminaire Tested: **GAN-AF-01-LED-U-T4W-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3542.1 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
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

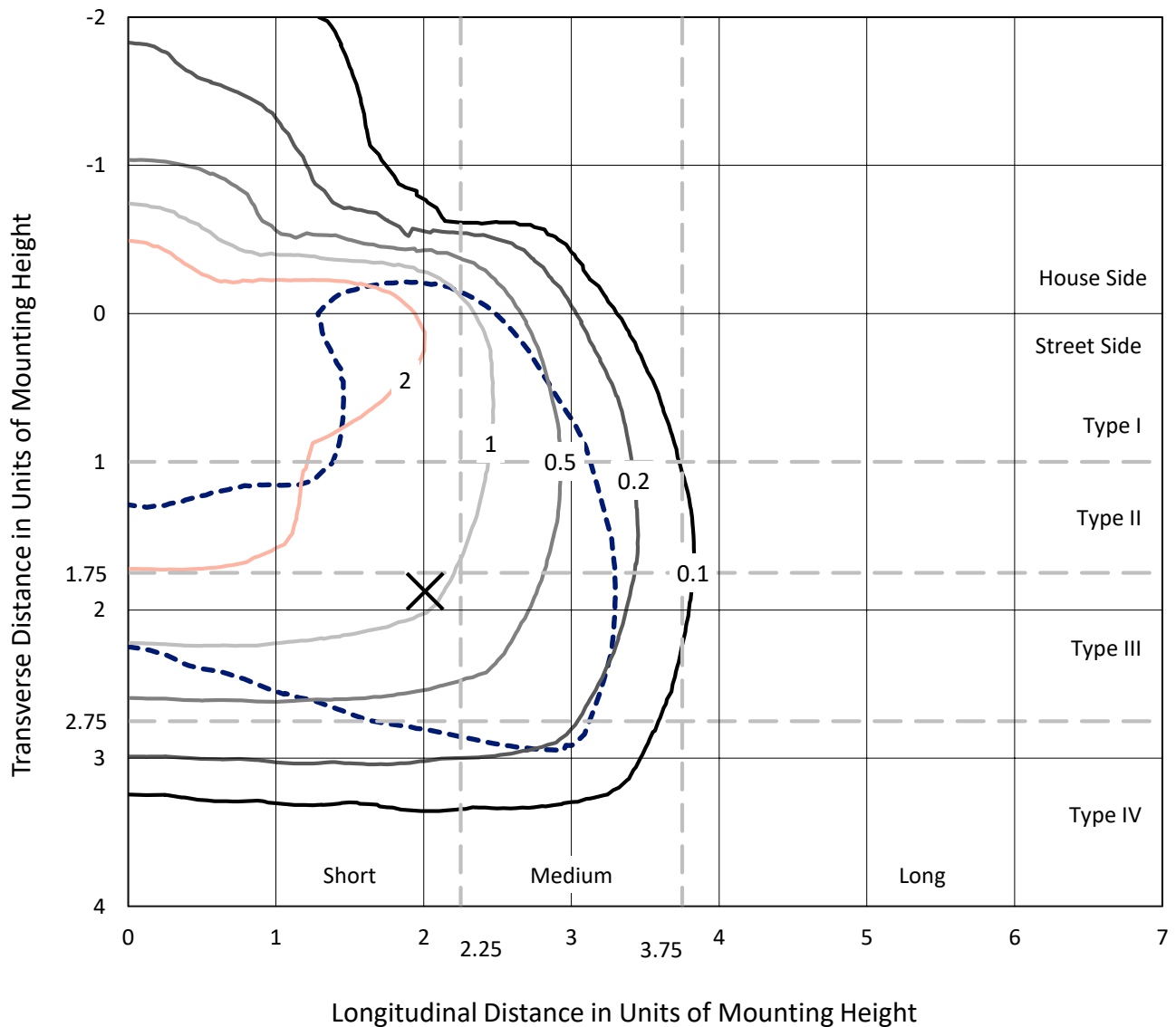


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

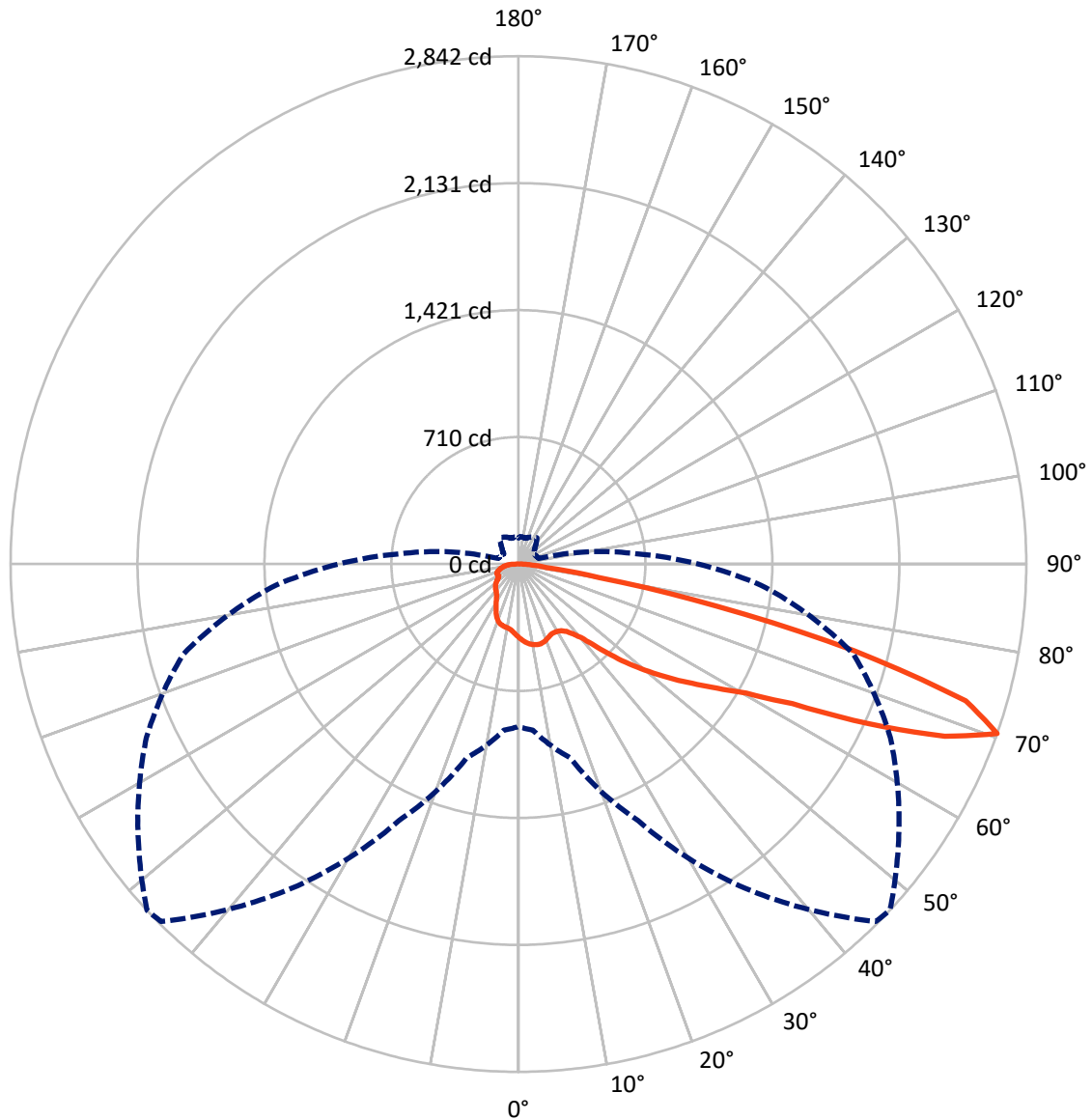


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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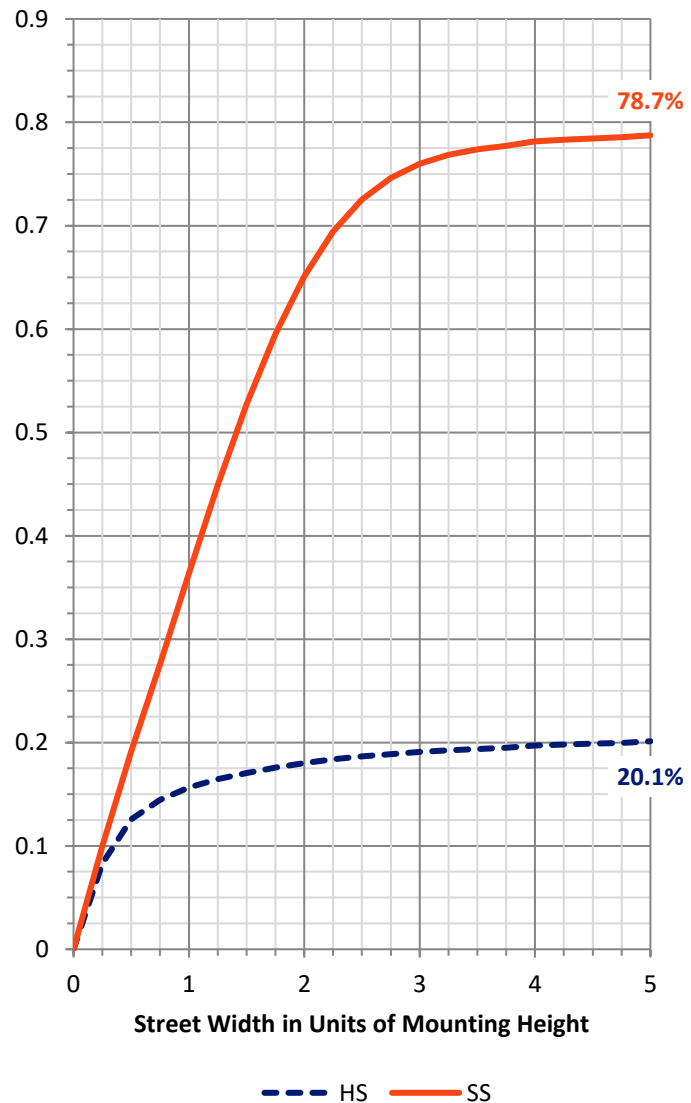
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 738.9 | 0.0 | 738.9 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 2803.2 | 0.0 | 2803.2 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 3542.1 | 0.0 | 3542.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 39.4 | 1.1 |
| 10°-20° | 115.5 | 3.3 |
| 20°-30° | 170.6 | 4.8 |
| 30°-40° | 248.0 | 7.0 |
| 40°-50° | 446.3 | 12.6 |
| 50°-60° | 773.1 | 21.8 |
| 60°-70° | 1103.5 | 31.2 |
| 70°-80° | 566.5 | 16.0 |
| 80°-90° | 79.3 | 2.2 |
| 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° | 3542.1 | 100.0 |
| 0°-180° | 3542.1 | 100.0 |



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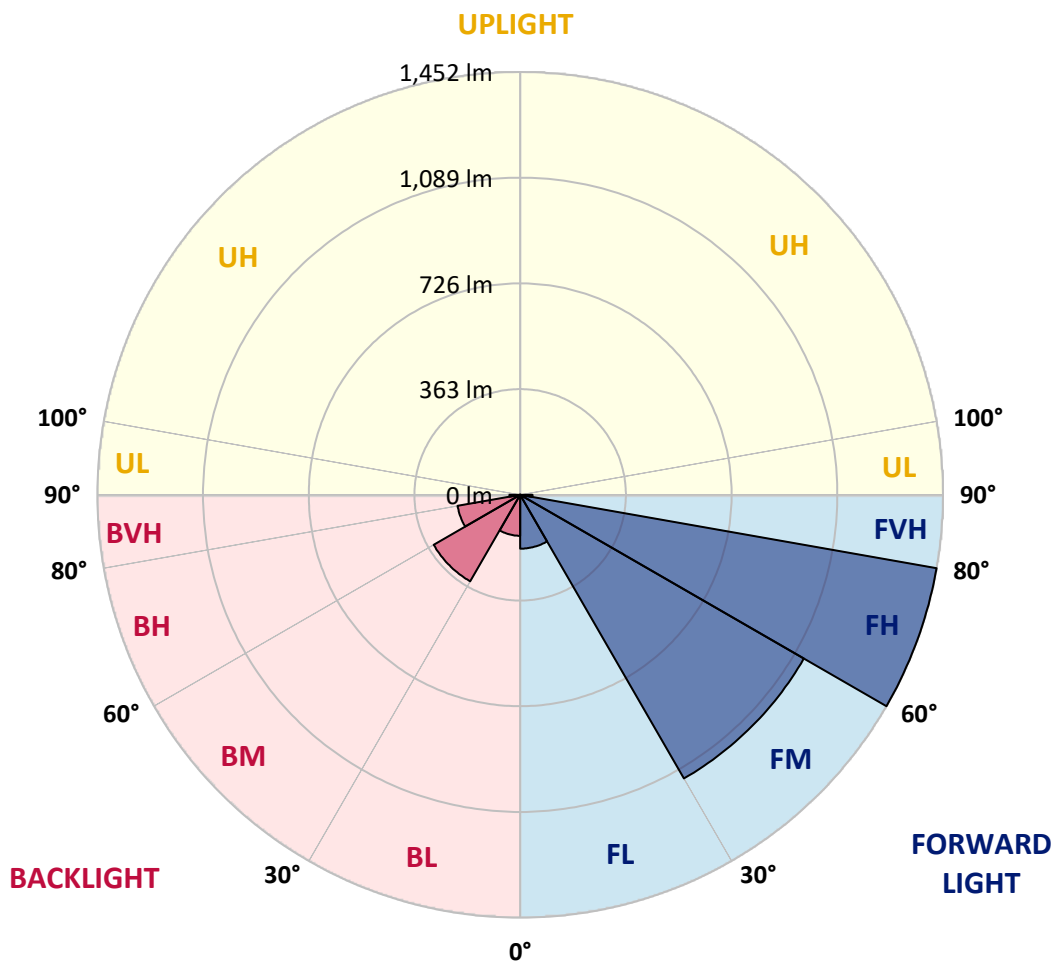
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 184.8 | 5.2 | | | |
| FM | (30°-60°) | 1124.4 | 31.7 | | | |
| FH | (60°-80°) | 1451.7 | 41.0 | | | G1/1800 |
| FVH | (80°-90°) | 42.3 | 1.2 | | | G1/100 |
| BL | (0°-30°) | 140.7 | 4.0 | B1/500 | | |
| BM | (30°-60°) | 343.0 | 9.7 | B1/1000 | | |
| BH | (60°-80°) | 218.3 | 6.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 37.0 | 1.0 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 |
| 2.5° | 435.0 | 434.3 | 433.9 | 433.3 | 432.4 | 428.0 | 427.2 | 424.1 | 419.8 | 415.2 | 410.6 |
| 5° | 463.7 | 463.5 | 461.6 | 458.2 | 452.7 | 443.3 | 441.0 | 433.4 | 423.2 | 413.4 | 403.6 |
| 7.5° | 488.9 | 487.3 | 483.7 | 476.8 | 467.2 | 454.3 | 451.2 | 440.7 | 426.6 | 413.2 | 399.9 |
| 10° | 507.4 | 506.5 | 498.6 | 489.0 | 476.6 | 462.2 | 458.6 | 446.8 | 431.5 | 414.5 | 397.9 |
| 12.5° | 517.9 | 516.2 | 507.1 | 495.7 | 480.7 | 466.7 | 463.0 | 451.2 | 433.9 | 414.5 | 395.0 |
| 15° | 517.2 | 515.9 | 506.9 | 494.3 | 479.2 | 466.9 | 463.7 | 451.8 | 433.4 | 412.7 | 391.2 |
| 17.5° | 503.4 | 503.9 | 496.1 | 483.8 | 471.5 | 462.2 | 459.3 | 448.3 | 430.0 | 409.3 | 386.7 |
| 20° | 479.2 | 481.6 | 476.6 | 465.6 | 458.8 | 452.3 | 450.5 | 441.2 | 424.5 | 404.2 | 381.9 |
| 22.5° | 455.1 | 457.3 | 455.4 | 446.2 | 445.1 | 441.3 | 440.3 | 433.6 | 420.0 | 401.2 | 378.9 |
| 25° | 437.4 | 439.5 | 439.1 | 431.1 | 434.3 | 434.2 | 433.3 | 430.0 | 418.9 | 401.2 | 379.4 |
| 27.5° | 432.5 | 433.3 | 432.5 | 425.3 | 429.6 | 433.1 | 432.4 | 431.8 | 422.1 | 406.2 | 386.0 |
| 30° | 449.2 | 448.1 | 442.8 | 428.0 | 432.1 | 436.8 | 436.1 | 436.4 | 431.4 | 419.2 | 400.6 |
| 32.5° | 515.1 | 510.4 | 493.6 | 452.3 | 441.8 | 444.4 | 444.8 | 450.5 | 451.3 | 439.5 | 423.5 |
| 35° | 613.8 | 608.6 | 586.8 | 517.6 | 472.4 | 463.3 | 463.3 | 472.0 | 477.2 | 468.3 | 458.8 |
| 37.5° | 718.5 | 712.7 | 701.0 | 607.9 | 536.5 | 496.4 | 495.4 | 501.4 | 508.9 | 511.0 | 513.4 |
| 40° | 837.3 | 831.3 | 834.5 | 709.1 | 625.8 | 553.4 | 541.0 | 536.7 | 556.8 | 570.1 | 589.4 |
| 42.5° | 967.5 | 964.7 | 965.9 | 821.9 | 727.7 | 638.6 | 621.3 | 599.0 | 623.2 | 646.7 | 687.3 |
| 45° | 1087.8 | 1090.4 | 1089.1 | 942.9 | 841.2 | 742.7 | 724.4 | 681.3 | 704.8 | 745.4 | 811.3 |
| 47.5° | 1193.4 | 1183.3 | 1198.9 | 1074.8 | 968.2 | 859.1 | 836.5 | 778.7 | 802.6 | 852.8 | 964.3 |
| 50° | 1321.3 | 1320.0 | 1297.3 | 1250.9 | 1121.7 | 976.3 | 946.5 | 879.6 | 916.8 | 986.2 | 1157.1 |
| 52.5° | 1456.1 | 1431.0 | 1410.2 | 1387.9 | 1284.5 | 1096.2 | 1059.6 | 980.1 | 1050.8 | 1138.2 | 1392.3 |
| 55° | 1483.6 | 1472.3 | 1498.3 | 1535.7 | 1441.5 | 1220.7 | 1178.1 | 1106.1 | 1201.8 | 1312.0 | 1663.3 |
| 57.5° | 1542.5 | 1542.3 | 1595.7 | 1662.5 | 1603.1 | 1352.9 | 1310.1 | 1258.2 | 1371.5 | 1510.9 | 1951.1 |
| 60° | 1582.4 | 1593.6 | 1692.8 | 1822.2 | 1761.8 | 1505.6 | 1466.2 | 1433.8 | 1564.6 | 1733.5 | 2219.3 |
| 62.5° | 1603.1 | 1618.3 | 1753.9 | 1887.0 | 1986.2 | 1759.8 | 1720.3 | 1673.6 | 1820.0 | 1977.4 | 2376.0 |
| 65° | 1516.5 | 1546.3 | 1744.2 | 1943.0 | 2182.7 | 2171.8 | 2154.0 | 2072.1 | 2139.3 | 2170.2 | 2319.3 |
| 67.5° | 1276.6 | 1307.2 | 1537.7 | 1890.8 | 2322.9 | 2569.2 | 2573.0 | 2432.9 | 2335.8 | 2186.8 | 1950.1 |
| 70° | 909.5 | 933.5 | 1124.3 | 1585.2 | 2216.1 | 2828.9 | 2841.9 | 2599.2 | 2296.5 | 1939.4 | 1362.4 |
| 72.5° | 431.8 | 446.5 | 627.0 | 1031.8 | 1758.6 | 2592.0 | 2616.9 | 2386.8 | 1952.8 | 1435.9 | 743.3 |
| 75° | 158.7 | 163.2 | 212.0 | 438.9 | 1020.0 | 1911.5 | 1940.9 | 1711.0 | 1294.5 | 714.8 | 283.1 |
| 77.5° | 95.1 | 98.1 | 118.8 | 185.2 | 401.2 | 1092.6 | 1136.1 | 930.6 | 565.8 | 266.1 | 139.2 |
| 80° | 66.6 | 68.6 | 85.2 | 115.3 | 189.5 | 416.4 | 455.1 | 379.9 | 225.5 | 168.3 | 101.2 |
| 82.5° | 44.9 | 46.1 | 59.9 | 78.0 | 125.9 | 148.7 | 160.4 | 168.9 | 152.1 | 125.3 | 64.3 |
| 85° | 29.5 | 30.5 | 40.7 | 51.4 | 80.0 | 76.8 | 78.6 | 99.4 | 111.0 | 85.1 | 35.7 |
| 87.5° | 16.9 | 17.5 | 24.4 | 27.4 | 39.3 | 32.6 | 32.9 | 52.5 | 71.0 | 57.4 | 21.6 |
| 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° | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 |
| 2.5° | 409.4 | 407.2 | 402.3 | 399.0 | 396.2 | 395.6 | 394.3 | 394.0 | 393.9 | 393.9 | 393.4 |
| 5° | 400.4 | 396.5 | 388.7 | 384.5 | 380.8 | 380.5 | 380.3 | 381.2 | 381.5 | 381.9 | 381.4 |
| 7.5° | 394.4 | 389.2 | 379.7 | 373.4 | 369.2 | 368.0 | 369.8 | 373.8 | 376.4 | 377.4 | 376.8 |
| 10° | 390.9 | 384.5 | 373.2 | 366.6 | 362.9 | 362.3 | 364.6 | 369.4 | 374.7 | 376.7 | 376.5 |
| 12.5° | 386.7 | 379.4 | 367.5 | 360.5 | 358.5 | 359.5 | 362.3 | 366.7 | 372.3 | 375.5 | 375.8 |
| 15° | 382.6 | 374.1 | 361.8 | 355.6 | 354.8 | 356.2 | 359.0 | 362.2 | 366.6 | 369.8 | 370.1 |
| 17.5° | 377.6 | 368.8 | 356.5 | 350.2 | 349.5 | 350.2 | 350.3 | 352.0 | 354.8 | 358.0 | 358.9 |
| 20° | 372.3 | 363.3 | 350.5 | 344.1 | 341.0 | 338.3 | 335.2 | 335.5 | 336.3 | 339.5 | 340.2 |
| 22.5° | 368.5 | 359.5 | 345.8 | 337.0 | 328.8 | 320.5 | 314.3 | 313.5 | 313.8 | 316.5 | 317.2 |
| 25° | 368.8 | 359.3 | 344.7 | 329.5 | 311.4 | 298.1 | 289.9 | 288.4 | 288.3 | 290.2 | 291.4 |
| 27.5° | 375.5 | 366.0 | 349.1 | 321.8 | 292.5 | 272.7 | 264.0 | 262.9 | 261.5 | 262.1 | 263.6 |
| 30° | 390.6 | 381.7 | 360.0 | 313.8 | 271.9 | 248.0 | 238.9 | 237.8 | 236.0 | 235.0 | 236.1 |
| 32.5° | 414.9 | 407.7 | 375.9 | 306.2 | 251.4 | 226.8 | 217.5 | 215.2 | 214.1 | 213.0 | 213.8 |
| 35° | 455.6 | 452.6 | 397.1 | 298.0 | 233.3 | 210.5 | 201.9 | 198.5 | 196.8 | 198.6 | 200.1 |
| 37.5° | 519.4 | 521.1 | 424.8 | 285.0 | 219.4 | 199.6 | 192.4 | 188.6 | 185.9 | 187.4 | 189.1 |
| 40° | 609.7 | 610.8 | 455.5 | 266.7 | 207.2 | 193.1 | 185.6 | 181.9 | 178.4 | 175.6 | 175.3 |
| 42.5° | 728.3 | 715.9 | 485.7 | 246.9 | 193.3 | 189.3 | 180.7 | 176.2 | 170.8 | 163.2 | 161.7 |
| 45° | 868.9 | 826.0 | 508.5 | 224.1 | 177.7 | 184.4 | 175.3 | 169.2 | 160.5 | 152.4 | 151.5 |
| 47.5° | 1030.8 | 943.9 | 519.7 | 200.6 | 163.0 | 177.3 | 168.9 | 159.1 | 148.2 | 144.1 | 143.5 |
| 50° | 1228.7 | 1084.2 | 525.1 | 177.7 | 150.2 | 168.1 | 159.4 | 147.9 | 138.7 | 137.9 | 137.4 |
| 52.5° | 1453.9 | 1252.6 | 526.8 | 158.9 | 139.7 | 155.9 | 151.6 | 140.4 | 133.2 | 133.8 | 133.8 |
| 55° | 1689.7 | 1426.7 | 503.4 | 145.3 | 130.2 | 143.5 | 146.5 | 137.5 | 131.5 | 134.2 | 135.3 |
| 57.5° | 1906.2 | 1580.9 | 429.6 | 134.7 | 121.0 | 134.0 | 144.5 | 140.2 | 136.2 | 147.3 | 148.0 |
| 60° | 2072.2 | 1672.0 | 320.9 | 125.3 | 114.3 | 130.9 | 149.6 | 150.7 | 151.9 | 178.6 | 182.1 |
| 62.5° | 2107.1 | 1641.7 | 220.5 | 117.9 | 111.1 | 133.6 | 158.7 | 158.9 | 157.7 | 176.2 | 178.6 |
| 65° | 1947.3 | 1450.0 | 160.4 | 113.7 | 108.5 | 138.6 | 166.5 | 162.9 | 154.9 | 169.1 | 164.8 |
| 67.5° | 1546.4 | 1092.3 | 133.6 | 110.6 | 104.8 | 138.2 | 174.7 | 166.5 | 153.4 | 165.6 | 158.9 |
| 70° | 1003.8 | 660.6 | 118.8 | 108.1 | 100.3 | 131.6 | 179.7 | 166.1 | 148.8 | 154.1 | 146.2 |
| 72.5° | 489.8 | 295.4 | 109.1 | 104.3 | 95.6 | 122.4 | 179.4 | 163.0 | 144.3 | 143.9 | 139.5 |
| 75° | 191.6 | 135.3 | 100.2 | 98.5 | 87.8 | 112.2 | 174.6 | 158.6 | 138.7 | 133.2 | 131.6 |
| 77.5° | 112.2 | 96.5 | 88.8 | 90.1 | 78.2 | 101.9 | 167.5 | 150.7 | 131.2 | 124.5 | 122.9 |
| 80° | 81.7 | 72.3 | 75.6 | 78.0 | 66.8 | 91.4 | 158.0 | 141.4 | 122.7 | 125.9 | 123.5 |
| 82.5° | 52.5 | 46.5 | 61.4 | 63.6 | 55.7 | 80.9 | 147.7 | 131.3 | 110.9 | 100.6 | 98.3 |
| 85° | 26.7 | 29.5 | 45.6 | 48.4 | 42.8 | 66.6 | 135.1 | 118.0 | 97.3 | 83.7 | 85.1 |
| 87.5° | 15.0 | 20.1 | 29.1 | 32.6 | 30.4 | 51.2 | 109.7 | 97.3 | 79.4 | 64.6 | 56.9 |
| 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)