

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: P192179

Luminaire Tested: **GAN-AF-01-LED-U-T2-7050-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192179
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-T2-7050-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6709 lumens
Efficiency: N/A
Efficacy: 100.1 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 - 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

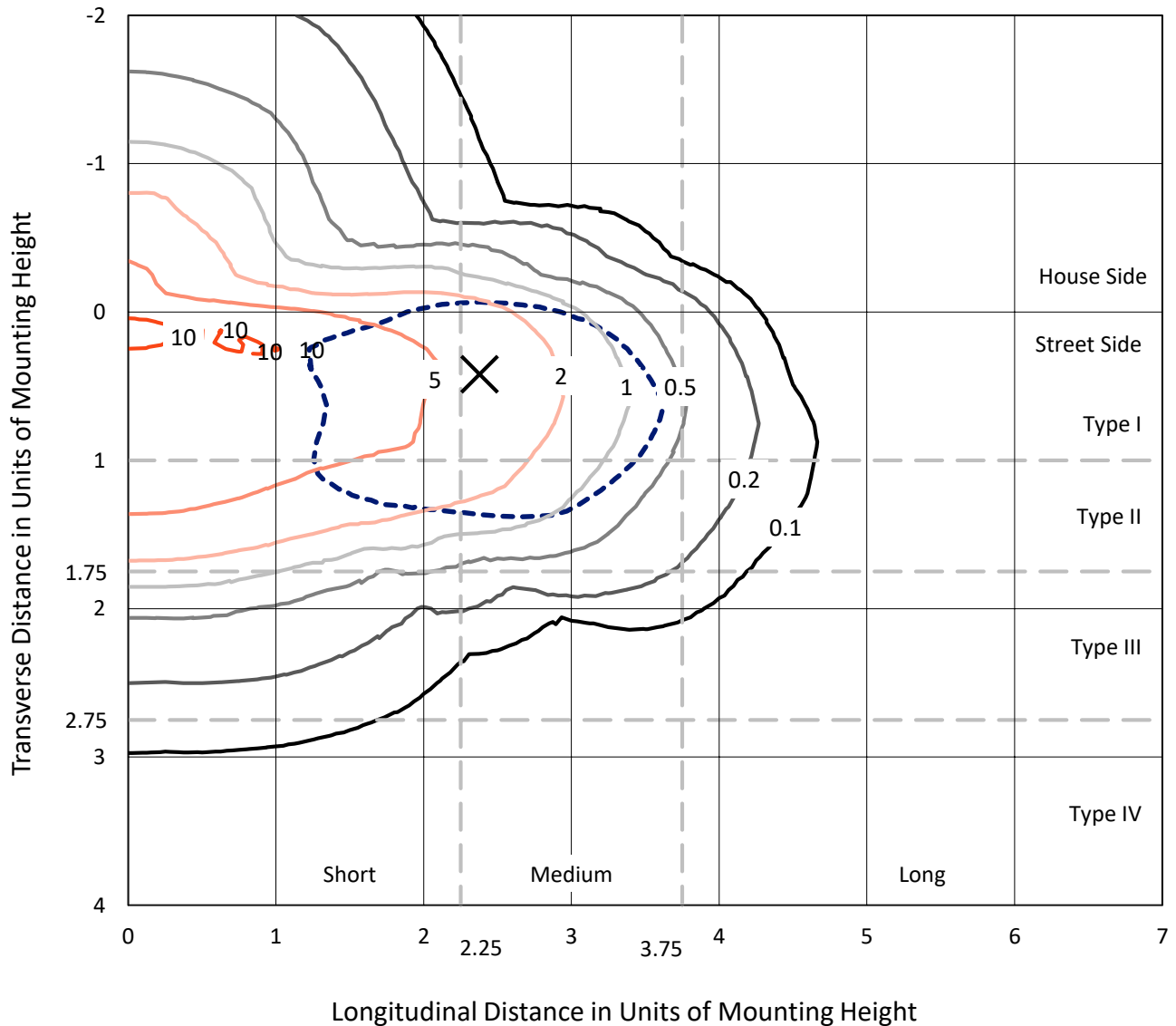


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

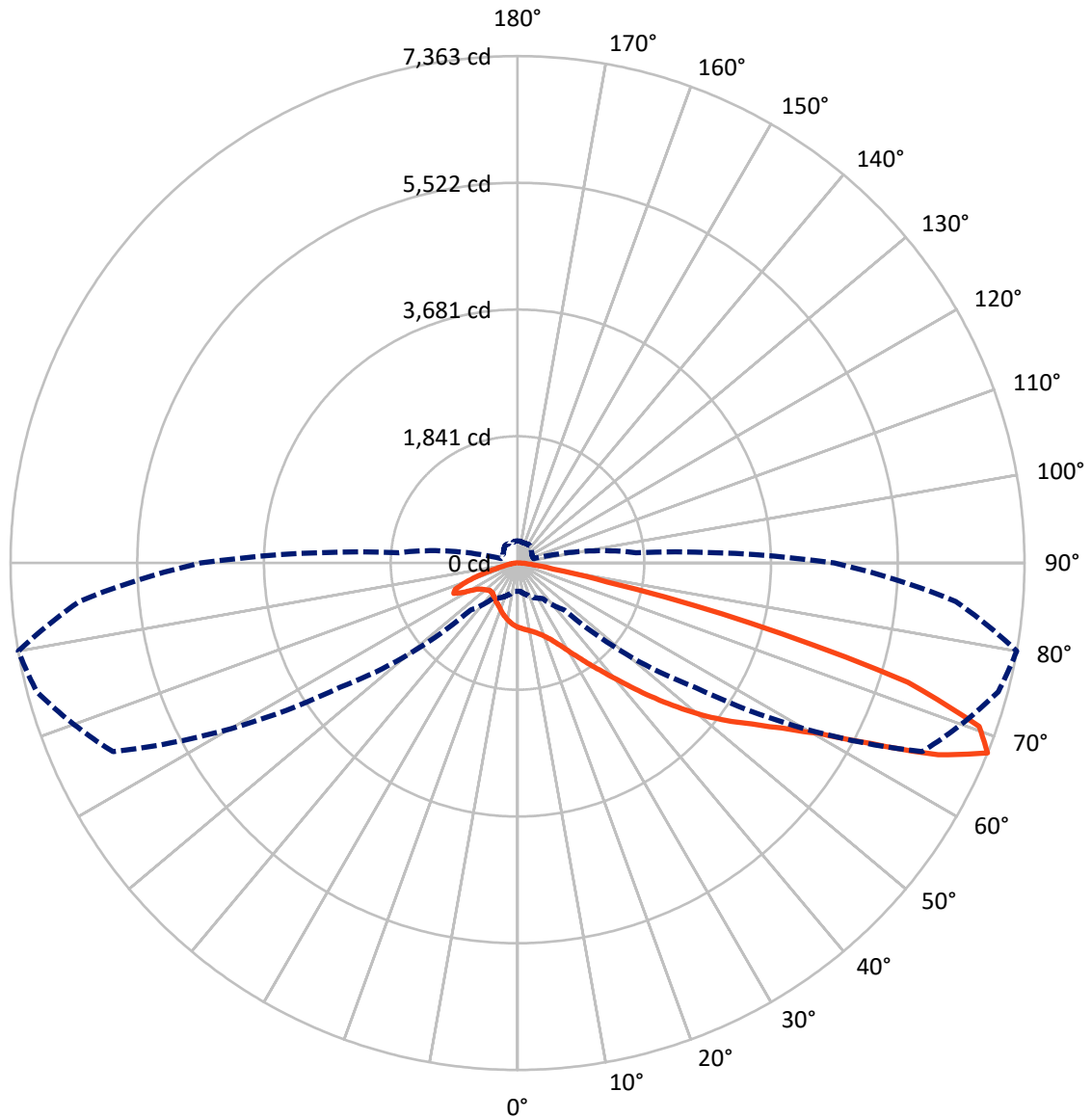


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Medium - Full Cutoff

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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 | 1235.5 | 0.0 | 1235.5 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 5473.5 | 0.0 | 5473.5 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 6709.0 | 0.0 | 6709.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.0 | 1.3 |
| 10°-20° | 247.7 | 3.7 |
| 20°-30° | 410.0 | 6.1 |
| 30°-40° | 670.6 | 10.0 |
| 40°-50° | 1082.8 | 16.1 |
| 50°-60° | 1563.2 | 23.3 |
| 60°-70° | 1725.1 | 25.7 |
| 70°-80° | 795.2 | 11.9 |
| 80°-90° | 128.6 | 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° | 6709.0 | 100.0 |
| 0°-180° | 6709.0 | 100.0 |



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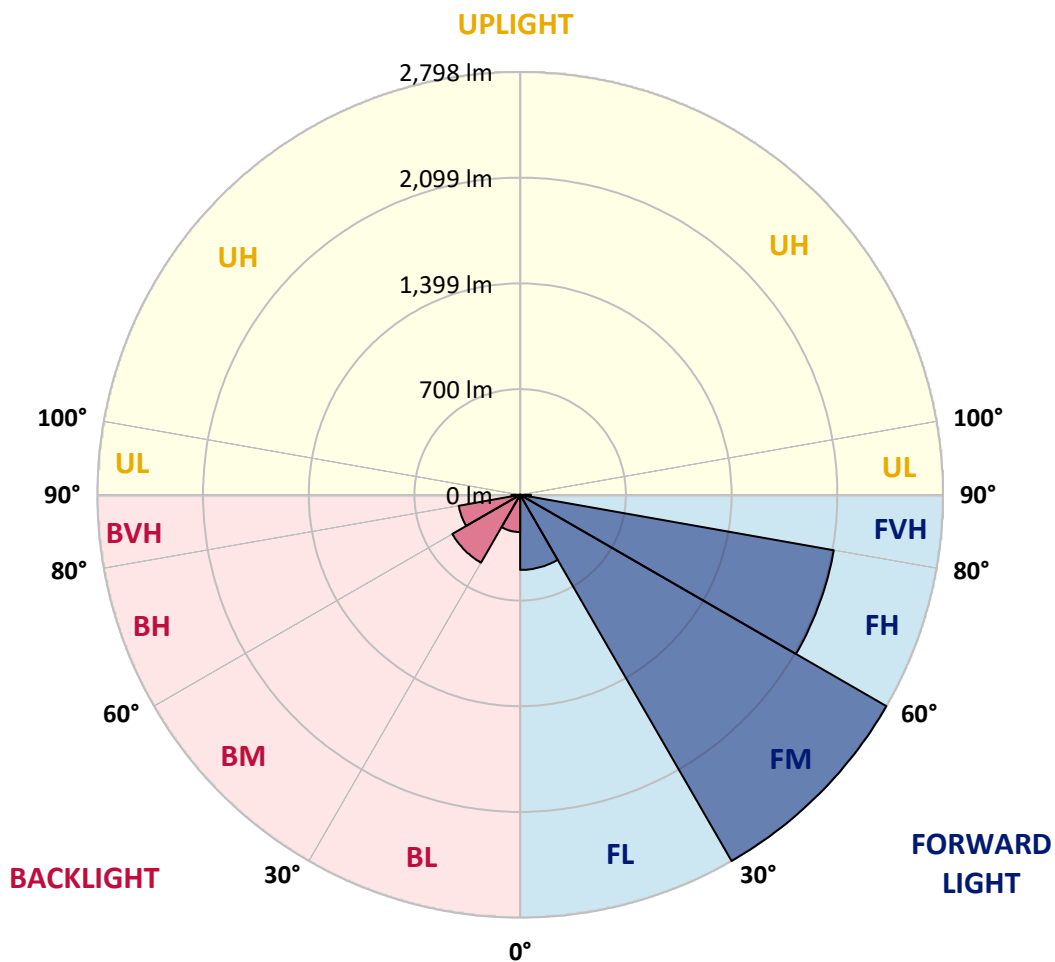
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 497.1 | 7.4 | | | |
| FM (30°-60°) | 2798.2 | 41.7 | | | |
| FH (60°-80°) | 2107.5 | 31.4 | | | G2/5000 |
| FVH (80°-90°) | 70.7 | 1.1 | | | G1/100 |
| BL (0°-30°) | 246.5 | 3.7 | B1/500 | | |
| BM (30°-60°) | 518.4 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 412.7 | 6.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 57.9 | 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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 |
| 2.5° | 1019.6 | 1013.7 | 1014.6 | 1013.0 | 1008.0 | 999.5 | 990.2 | 973.4 | 955.9 | 946.6 | 939.3 |
| 5° | 1104.8 | 1103.2 | 1100.9 | 1095.6 | 1083.0 | 1065.2 | 1043.1 | 1013.3 | 981.3 | 964.4 | 948.3 |
| 7.5° | 1168.6 | 1167.6 | 1164.6 | 1161.3 | 1149.1 | 1127.6 | 1094.2 | 1052.0 | 1005.4 | 982.3 | 957.2 |
| 10° | 1173.8 | 1175.5 | 1177.8 | 1186.7 | 1188.4 | 1176.8 | 1142.8 | 1091.6 | 1030.5 | 1000.8 | 968.7 |
| 12.5° | 1128.9 | 1132.6 | 1141.5 | 1164.3 | 1188.4 | 1202.6 | 1185.1 | 1133.2 | 1059.9 | 1023.9 | 983.3 |
| 15° | 1069.5 | 1071.5 | 1082.4 | 1113.7 | 1157.0 | 1200.9 | 1217.4 | 1179.1 | 1097.9 | 1053.6 | 1005.1 |
| 17.5° | 1044.0 | 1045.0 | 1052.6 | 1073.4 | 1113.7 | 1176.5 | 1235.6 | 1229.0 | 1144.5 | 1090.6 | 1031.8 |
| 20° | 1031.2 | 1033.5 | 1044.4 | 1064.9 | 1090.3 | 1145.1 | 1238.3 | 1282.8 | 1199.9 | 1136.9 | 1065.5 |
| 22.5° | 1067.8 | 1066.8 | 1070.8 | 1081.0 | 1102.5 | 1135.5 | 1236.3 | 1338.3 | 1270.6 | 1196.3 | 1109.4 |
| 25° | 1153.4 | 1157.0 | 1150.1 | 1138.5 | 1145.4 | 1168.6 | 1246.8 | 1398.4 | 1359.1 | 1272.6 | 1166.9 |
| 27.5° | 1275.2 | 1271.6 | 1261.4 | 1234.3 | 1220.1 | 1230.0 | 1281.9 | 1463.2 | 1469.1 | 1373.0 | 1242.9 |
| 30° | 1396.8 | 1393.8 | 1383.9 | 1350.9 | 1321.8 | 1313.6 | 1349.9 | 1537.5 | 1600.2 | 1493.6 | 1336.0 |
| 32.5° | 1523.0 | 1519.7 | 1510.4 | 1477.4 | 1442.4 | 1423.2 | 1446.7 | 1623.4 | 1754.8 | 1637.6 | 1445.7 |
| 35° | 1678.5 | 1672.3 | 1652.8 | 1606.9 | 1572.5 | 1557.6 | 1568.5 | 1731.4 | 1933.2 | 1808.0 | 1578.8 |
| 37.5° | 1824.8 | 1834.4 | 1814.6 | 1751.2 | 1706.6 | 1701.3 | 1713.5 | 1863.2 | 2125.4 | 1998.6 | 1731.7 |
| 40° | 1971.8 | 1973.5 | 1955.6 | 1903.8 | 1857.9 | 1849.3 | 1880.0 | 2023.0 | 2352.3 | 2226.5 | 1917.7 |
| 42.5° | 2123.8 | 2127.1 | 2097.0 | 2049.1 | 2015.4 | 2017.1 | 2052.1 | 2210.3 | 2612.6 | 2495.0 | 2131.7 |
| 45° | 2303.8 | 2308.7 | 2275.7 | 2212.9 | 2182.2 | 2244.0 | 2229.4 | 2420.4 | 2898.0 | 2800.2 | 2377.4 |
| 47.5° | 2492.0 | 2499.6 | 2474.5 | 2415.7 | 2377.4 | 2462.3 | 2406.8 | 2653.2 | 3205.1 | 3127.5 | 2647.3 |
| 50° | 2594.7 | 2605.6 | 2630.1 | 2625.8 | 2617.5 | 2603.3 | 2604.7 | 2902.9 | 3521.9 | 3468.4 | 2924.7 |
| 52.5° | 2539.6 | 2539.3 | 2628.4 | 2736.8 | 2852.4 | 2861.0 | 2845.8 | 3166.1 | 3817.8 | 3801.6 | 3186.0 |
| 55° | 2287.3 | 2304.4 | 2439.5 | 2649.2 | 2965.0 | 3162.2 | 3207.1 | 3467.7 | 4108.5 | 4127.3 | 3451.2 |
| 57.5° | 1867.1 | 1881.3 | 2063.6 | 2356.0 | 2813.1 | 3341.2 | 3721.0 | 3906.0 | 4433.5 | 4521.3 | 3804.3 |
| 60° | 1266.3 | 1283.5 | 1476.7 | 1827.8 | 2404.2 | 3241.5 | 4210.2 | 4688.1 | 4822.5 | 5022.4 | 4299.7 |
| 62.5° | 744.1 | 759.7 | 917.2 | 1153.0 | 1692.7 | 2778.1 | 4424.9 | 5800.9 | 5440.5 | 5778.4 | 5055.4 |
| 65° | 512.3 | 522.8 | 599.5 | 717.7 | 972.7 | 1871.1 | 4158.7 | 6569.1 | 6391.4 | 6715.1 | 5931.7 |
| 67.5° | 412.2 | 410.9 | 471.7 | 552.2 | 626.2 | 964.8 | 3144.7 | 6482.2 | 7227.7 | 7362.8 | 6386.5 |
| 70° | 339.5 | 338.2 | 379.5 | 446.2 | 500.4 | 543.3 | 1712.9 | 5470.2 | 7057.3 | 7112.1 | 5967.7 |
| 72.5° | 284.0 | 285.4 | 311.8 | 361.3 | 410.5 | 409.2 | 752.7 | 3848.2 | 5551.8 | 5931.0 | 4757.2 |
| 75° | 239.8 | 240.5 | 258.0 | 293.0 | 333.3 | 329.6 | 408.2 | 2084.8 | 3227.3 | 3491.2 | 2637.0 |
| 77.5° | 204.1 | 204.8 | 216.0 | 235.5 | 264.2 | 262.9 | 297.9 | 900.7 | 1346.3 | 1329.7 | 902.0 |
| 80° | 182.0 | 182.0 | 187.3 | 190.9 | 206.8 | 200.8 | 221.0 | 432.7 | 569.1 | 525.5 | 360.0 |
| 82.5° | 142.7 | 143.3 | 175.7 | 174.4 | 162.8 | 155.2 | 155.2 | 255.0 | 301.6 | 278.8 | 210.7 |
| 85° | 80.3 | 79.9 | 113.3 | 136.7 | 143.3 | 109.3 | 108.3 | 142.7 | 164.2 | 144.7 | 102.1 |
| 87.5° | 34.4 | 35.0 | 52.5 | 60.8 | 81.3 | 68.0 | 67.0 | 73.7 | 83.6 | 72.3 | 47.2 |
| 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° | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 | 932.1 |
| 2.5° | 932.4 | 923.8 | 905.0 | 881.5 | 860.4 | 846.5 | 834.0 | 815.8 | 816.8 | 804.3 | 795.0 |
| 5° | 931.7 | 913.9 | 870.3 | 818.5 | 768.6 | 732.6 | 705.5 | 681.1 | 675.1 | 663.6 | 656.6 |
| 7.5° | 932.4 | 903.3 | 830.0 | 747.1 | 685.3 | 639.8 | 616.6 | 603.8 | 600.8 | 596.8 | 597.2 |
| 10° | 934.7 | 893.8 | 785.8 | 680.4 | 615.7 | 585.6 | 580.0 | 584.0 | 588.6 | 589.9 | 590.2 |
| 12.5° | 940.0 | 885.2 | 737.2 | 620.9 | 572.1 | 562.8 | 572.4 | 585.9 | 594.9 | 599.1 | 598.8 |
| 15° | 951.9 | 878.6 | 690.6 | 574.4 | 547.9 | 552.9 | 570.7 | 589.9 | 602.8 | 608.7 | 609.1 |
| 17.5° | 964.8 | 869.0 | 642.7 | 538.7 | 530.1 | 542.7 | 564.8 | 587.3 | 603.1 | 609.7 | 611.0 |
| 20° | 981.6 | 857.1 | 592.5 | 511.9 | 513.3 | 527.5 | 548.3 | 570.7 | 588.2 | 593.9 | 596.5 |
| 22.5° | 1003.7 | 844.2 | 548.6 | 490.1 | 494.1 | 505.0 | 521.2 | 540.7 | 555.9 | 558.5 | 560.8 |
| 25° | 1033.5 | 830.3 | 513.6 | 470.3 | 472.0 | 478.3 | 489.2 | 500.7 | 511.3 | 508.3 | 510.6 |
| 27.5° | 1073.4 | 818.5 | 487.5 | 452.2 | 449.2 | 450.5 | 456.1 | 459.8 | 465.4 | 457.1 | 458.1 |
| 30° | 1120.3 | 805.6 | 467.4 | 436.3 | 428.1 | 425.7 | 427.1 | 429.0 | 433.3 | 422.1 | 420.5 |
| 32.5° | 1174.8 | 790.1 | 448.5 | 422.4 | 410.9 | 406.3 | 406.9 | 412.2 | 428.7 | 421.8 | 418.1 |
| 35° | 1238.3 | 772.5 | 428.7 | 407.2 | 399.3 | 392.7 | 392.1 | 408.6 | 457.8 | 453.5 | 450.2 |
| 37.5° | 1312.6 | 755.0 | 408.9 | 390.1 | 390.7 | 383.5 | 381.2 | 400.0 | 463.4 | 446.6 | 444.2 |
| 40° | 1407.0 | 745.8 | 392.1 | 371.9 | 380.2 | 379.2 | 374.5 | 384.1 | 426.4 | 395.7 | 391.7 |
| 42.5° | 1524.0 | 747.1 | 379.5 | 352.4 | 367.6 | 378.2 | 370.9 | 371.2 | 386.4 | 363.3 | 359.7 |
| 45° | 1668.3 | 762.6 | 370.6 | 336.9 | 353.4 | 377.2 | 369.6 | 364.3 | 365.6 | 353.4 | 351.4 |
| 47.5° | 1836.7 | 794.7 | 364.3 | 324.0 | 339.9 | 373.6 | 369.3 | 362.3 | 359.4 | 352.7 | 351.1 |
| 50° | 2024.0 | 841.2 | 359.7 | 311.8 | 327.6 | 367.6 | 369.6 | 360.3 | 357.0 | 354.4 | 353.4 |
| 52.5° | 2208.0 | 894.4 | 352.7 | 301.2 | 318.1 | 360.3 | 370.6 | 358.4 | 354.7 | 352.7 | 351.8 |
| 55° | 2413.1 | 960.8 | 342.2 | 292.3 | 310.1 | 351.1 | 370.6 | 355.4 | 351.4 | 351.8 | 351.4 |
| 57.5° | 2690.2 | 1068.2 | 329.6 | 284.7 | 300.6 | 339.9 | 364.3 | 352.1 | 347.1 | 347.5 | 347.8 |
| 60° | 3123.2 | 1257.4 | 314.4 | 277.1 | 288.7 | 326.7 | 355.7 | 344.8 | 339.9 | 341.2 | 341.5 |
| 62.5° | 3760.0 | 1535.2 | 294.6 | 265.9 | 276.1 | 312.5 | 343.8 | 335.6 | 330.6 | 333.9 | 333.9 |
| 65° | 4421.9 | 1780.3 | 270.2 | 251.7 | 262.9 | 296.9 | 329.0 | 324.0 | 319.1 | 326.7 | 326.3 |
| 67.5° | 4599.9 | 1725.4 | 245.7 | 236.2 | 249.7 | 279.8 | 311.1 | 308.5 | 305.8 | 319.1 | 318.4 |
| 70° | 4086.3 | 1385.2 | 223.3 | 220.3 | 235.2 | 261.3 | 292.0 | 292.0 | 290.3 | 300.2 | 297.9 |
| 72.5° | 3113.3 | 982.3 | 201.8 | 203.5 | 218.7 | 241.1 | 271.2 | 273.5 | 270.8 | 275.8 | 273.8 |
| 75° | 1666.6 | 562.2 | 180.3 | 185.0 | 198.2 | 220.6 | 248.0 | 250.4 | 248.7 | 248.4 | 249.4 |
| 77.5° | 553.9 | 274.8 | 157.9 | 165.1 | 176.7 | 199.5 | 223.9 | 227.6 | 223.6 | 222.9 | 222.6 |
| 80° | 246.7 | 172.7 | 133.1 | 142.7 | 152.9 | 175.4 | 198.5 | 201.5 | 197.2 | 203.1 | 195.5 |
| 82.5° | 158.5 | 113.6 | 106.7 | 117.3 | 127.2 | 151.3 | 173.1 | 173.7 | 169.8 | 197.2 | 168.1 |
| 85° | 77.0 | 70.4 | 80.3 | 89.8 | 98.4 | 118.9 | 143.3 | 143.7 | 133.8 | 121.9 | 117.6 |
| 87.5° | 38.3 | 41.0 | 53.5 | 62.1 | 66.4 | 81.6 | 104.4 | 102.4 | 98.1 | 89.2 | 82.2 |
| 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)