

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: P266718

Luminaire Tested: **GAN-AF-02-LED-U-T4W-7027-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266718
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-02-LED-U-T4W-7027-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8488.8 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 85
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

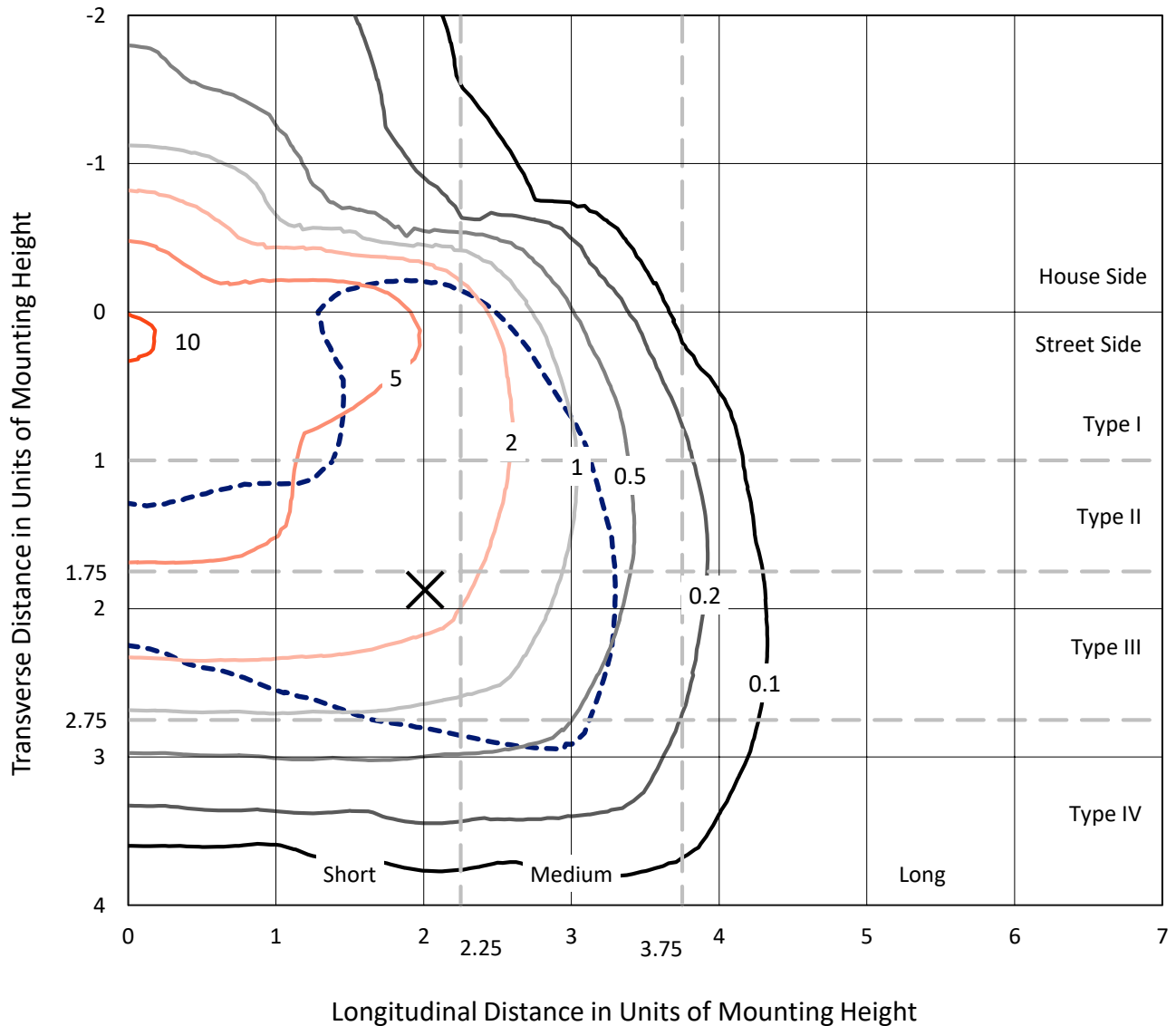


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

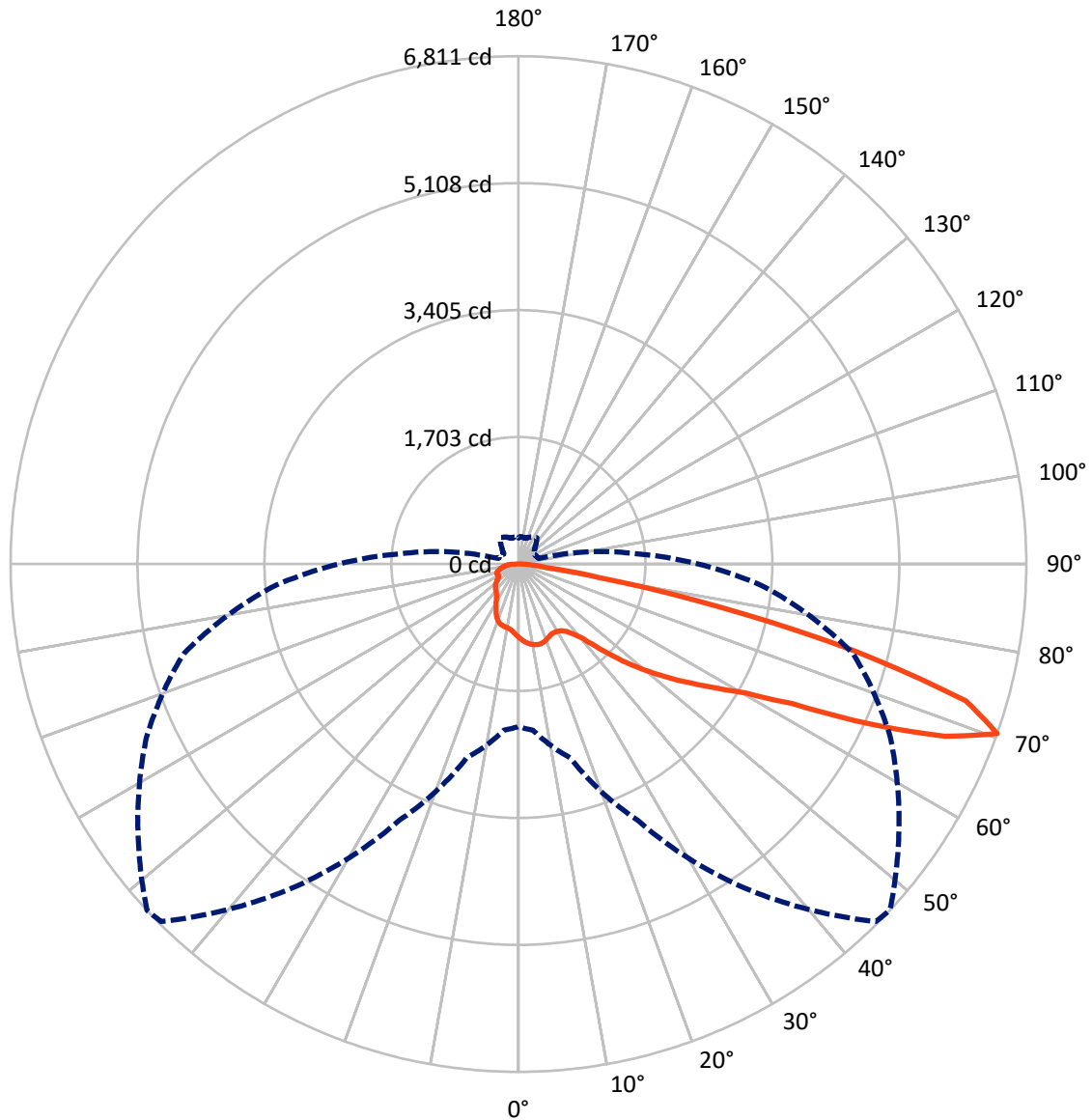


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - Semi-Cutoff

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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 | 1771.0 | 0.0 | 1771.0 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 6717.9 | 0.0 | 6717.9 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 8488.8 | 0.0 | 8488.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.4 | 1.1 |
| 10°-20° | 276.9 | 3.3 |
| 20°-30° | 408.9 | 4.8 |
| 30°-40° | 594.3 | 7.0 |
| 40°-50° | 1069.5 | 12.6 |
| 50°-60° | 1852.8 | 21.8 |
| 60°-70° | 2644.5 | 31.2 |
| 70°-80° | 1357.5 | 16.0 |
| 80°-90° | 190.1 | 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° | 8488.8 | 100.0 |
| 0°-180° | 8488.8 | 100.0 |

Coefficient of Utilization



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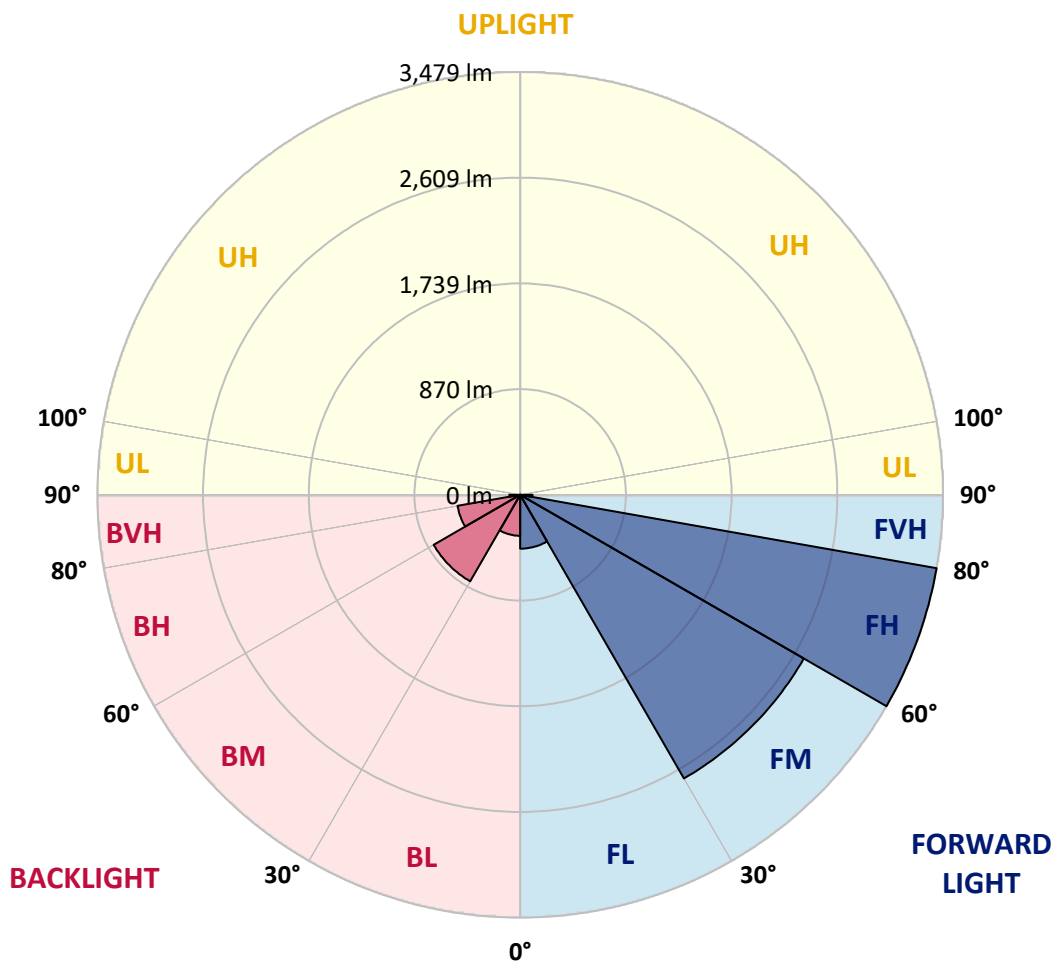
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 442.9 | 5.2 | | | |
| FM | (30°-60°) | 2694.6 | 31.7 | | | |
| FH | (60°-80°) | 3479.0 | 41.0 | | | G2/5000 |
| FVH | (80°-90°) | 101.4 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 337.2 | 4.0 | B1/500 | | |
| BM | (30°-60°) | 822.0 | 9.7 | B1/1000 | | |
| BH | (60°-80°) | 523.1 | 6.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 88.6 | 1.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 |
| 2.5° | 1042.8 | 1040.7 | 1039.9 | 1038.3 | 1036.1 | 1025.9 | 1023.8 | 1016.3 | 1006.0 | 995.3 | 984.2 |
| 5° | 1111.4 | 1110.9 | 1106.4 | 1098.1 | 1085.0 | 1062.2 | 1056.9 | 1038.7 | 1014.2 | 990.7 | 967.3 |
| 7.5° | 1171.6 | 1167.9 | 1159.3 | 1142.7 | 1119.6 | 1088.7 | 1081.2 | 1056.0 | 1022.5 | 990.3 | 958.5 |
| 10° | 1215.9 | 1213.8 | 1194.7 | 1172.1 | 1141.8 | 1107.6 | 1098.9 | 1070.9 | 1034.0 | 993.3 | 953.6 |
| 12.5° | 1241.0 | 1236.8 | 1215.0 | 1187.7 | 1151.7 | 1118.4 | 1109.6 | 1081.2 | 1039.9 | 993.3 | 946.5 |
| 15° | 1239.4 | 1236.4 | 1214.6 | 1184.9 | 1148.6 | 1119.2 | 1111.4 | 1082.8 | 1038.7 | 989.2 | 937.6 |
| 17.5° | 1206.3 | 1207.6 | 1188.9 | 1159.6 | 1129.9 | 1107.6 | 1100.7 | 1074.2 | 1030.4 | 980.8 | 926.7 |
| 20° | 1148.6 | 1154.3 | 1141.8 | 1115.9 | 1099.3 | 1084.1 | 1079.6 | 1057.2 | 1017.6 | 968.8 | 915.2 |
| 22.5° | 1090.7 | 1096.0 | 1091.1 | 1069.3 | 1066.7 | 1057.7 | 1055.1 | 1039.1 | 1006.5 | 961.5 | 908.1 |
| 25° | 1048.1 | 1053.2 | 1052.3 | 1033.3 | 1040.7 | 1040.2 | 1038.3 | 1030.4 | 1003.9 | 961.5 | 909.4 |
| 27.5° | 1036.6 | 1038.3 | 1036.6 | 1019.2 | 1029.5 | 1037.8 | 1036.1 | 1034.9 | 1011.4 | 973.5 | 925.1 |
| 30° | 1076.2 | 1073.7 | 1061.0 | 1025.9 | 1035.3 | 1047.0 | 1045.3 | 1046.0 | 1033.7 | 1004.8 | 960.2 |
| 32.5° | 1234.5 | 1223.2 | 1182.8 | 1084.1 | 1058.9 | 1065.1 | 1065.8 | 1079.6 | 1081.6 | 1053.2 | 1014.6 |
| 35° | 1471.1 | 1458.7 | 1406.1 | 1240.2 | 1132.0 | 1110.6 | 1110.6 | 1131.1 | 1143.5 | 1122.5 | 1099.3 |
| 37.5° | 1721.7 | 1708.0 | 1680.0 | 1456.6 | 1285.7 | 1189.4 | 1187.3 | 1201.8 | 1219.5 | 1224.5 | 1230.3 |
| 40° | 2006.8 | 1992.3 | 2000.0 | 1699.5 | 1500.0 | 1326.1 | 1296.8 | 1286.5 | 1334.3 | 1366.1 | 1412.5 |
| 42.5° | 2318.4 | 2311.9 | 2314.8 | 1970.0 | 1744.0 | 1530.5 | 1488.9 | 1435.5 | 1493.3 | 1549.9 | 1647.0 |
| 45° | 2607.2 | 2613.0 | 2610.0 | 2259.4 | 2015.7 | 1779.9 | 1735.7 | 1632.5 | 1689.2 | 1786.2 | 1944.3 |
| 47.5° | 2859.9 | 2835.9 | 2873.0 | 2575.8 | 2320.1 | 2059.2 | 2004.7 | 1866.3 | 1923.7 | 2043.5 | 2311.1 |
| 50° | 3166.7 | 3163.6 | 3108.9 | 2997.9 | 2688.1 | 2339.5 | 2268.1 | 2107.9 | 2197.1 | 2363.5 | 2773.2 |
| 52.5° | 3489.2 | 3429.4 | 3379.5 | 3326.2 | 3078.4 | 2627.1 | 2539.5 | 2348.7 | 2518.4 | 2727.8 | 3336.6 |
| 55° | 3555.4 | 3528.5 | 3590.4 | 3680.0 | 3454.6 | 2925.6 | 2823.6 | 2650.4 | 2880.1 | 3144.1 | 3986.0 |
| 57.5° | 3696.6 | 3696.3 | 3824.3 | 3984.1 | 3842.1 | 3242.3 | 3139.4 | 3015.3 | 3287.0 | 3621.1 | 4675.8 |
| 60° | 3792.0 | 3818.9 | 4056.7 | 4366.9 | 4222.4 | 3608.2 | 3513.7 | 3436.0 | 3749.4 | 4154.2 | 5318.4 |
| 62.5° | 3842.1 | 3878.3 | 4202.9 | 4522.2 | 4760.1 | 4217.5 | 4122.9 | 4010.9 | 4361.5 | 4739.0 | 5694.3 |
| 65° | 3634.3 | 3705.7 | 4180.3 | 4656.5 | 5230.9 | 5204.9 | 5162.3 | 4965.7 | 5126.7 | 5201.1 | 5558.4 |
| 67.5° | 3059.4 | 3132.5 | 3685.0 | 4531.3 | 5567.1 | 6157.3 | 6166.2 | 5830.4 | 5597.6 | 5240.8 | 4673.3 |
| 70° | 2179.7 | 2237.0 | 2694.2 | 3799.0 | 5311.0 | 6779.6 | 6810.5 | 6229.0 | 5503.8 | 4647.7 | 3265.1 |
| 72.5° | 1034.9 | 1070.1 | 1502.9 | 2472.6 | 4214.5 | 6211.7 | 6271.5 | 5720.2 | 4679.9 | 3441.0 | 1781.2 |
| 75° | 380.3 | 391.1 | 508.0 | 1051.8 | 2444.5 | 4580.8 | 4651.5 | 4100.6 | 3102.3 | 1713.1 | 678.5 |
| 77.5° | 228.0 | 234.9 | 284.9 | 443.9 | 961.5 | 2618.3 | 2722.9 | 2230.1 | 1355.8 | 637.6 | 333.7 |
| 80° | 159.4 | 164.4 | 204.5 | 276.3 | 454.4 | 997.7 | 1090.7 | 910.3 | 540.2 | 403.5 | 242.8 |
| 82.5° | 107.7 | 110.2 | 143.6 | 186.7 | 301.9 | 356.4 | 384.5 | 404.7 | 364.3 | 300.3 | 154.0 |
| 85° | 70.6 | 73.1 | 97.5 | 123.1 | 192.1 | 184.2 | 188.4 | 238.3 | 266.0 | 204.1 | 85.5 |
| 87.5° | 40.5 | 42.1 | 58.7 | 65.7 | 94.1 | 78.1 | 79.0 | 125.6 | 170.1 | 137.5 | 52.0 |
| 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° | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 | 985.0 |
| 2.5° | 981.3 | 975.9 | 963.9 | 956.4 | 949.5 | 947.8 | 944.8 | 944.5 | 944.1 | 944.1 | 942.9 |
| 5° | 959.4 | 950.2 | 931.7 | 921.4 | 912.7 | 911.9 | 911.5 | 913.5 | 914.4 | 915.2 | 913.9 |
| 7.5° | 945.3 | 932.9 | 909.9 | 894.9 | 884.7 | 882.1 | 886.3 | 895.8 | 902.0 | 904.5 | 903.2 |
| 10° | 936.7 | 921.4 | 894.5 | 878.5 | 869.7 | 868.5 | 874.0 | 885.0 | 897.9 | 902.7 | 902.3 |
| 12.5° | 926.7 | 909.4 | 880.9 | 864.0 | 859.0 | 861.5 | 868.5 | 878.8 | 892.0 | 899.9 | 900.3 |
| 15° | 916.8 | 896.6 | 867.3 | 852.4 | 850.3 | 853.6 | 860.2 | 868.1 | 878.5 | 886.3 | 887.0 |
| 17.5° | 904.9 | 883.8 | 854.5 | 839.1 | 837.5 | 839.1 | 839.6 | 843.7 | 850.3 | 857.8 | 859.9 |
| 20° | 892.0 | 870.5 | 840.0 | 824.7 | 817.3 | 810.7 | 803.3 | 804.2 | 806.1 | 813.5 | 815.2 |
| 22.5° | 882.9 | 861.5 | 828.9 | 807.8 | 788.0 | 768.1 | 753.3 | 751.3 | 752.1 | 758.2 | 760.3 |
| 25° | 883.8 | 861.0 | 826.0 | 789.6 | 746.2 | 714.4 | 694.6 | 691.3 | 690.9 | 695.5 | 698.3 |
| 27.5° | 899.9 | 877.1 | 836.7 | 771.0 | 700.9 | 653.7 | 632.6 | 630.3 | 626.8 | 628.2 | 631.5 |
| 30° | 935.9 | 914.7 | 862.7 | 752.1 | 651.7 | 594.3 | 572.4 | 570.0 | 565.4 | 563.2 | 565.8 |
| 32.5° | 994.5 | 977.1 | 900.7 | 733.8 | 602.6 | 543.5 | 521.1 | 515.8 | 512.9 | 510.4 | 512.6 |
| 35° | 1091.9 | 1084.6 | 951.6 | 714.1 | 559.1 | 504.3 | 484.0 | 475.7 | 471.6 | 476.2 | 479.4 |
| 37.5° | 1244.7 | 1248.9 | 1018.0 | 683.2 | 525.7 | 478.3 | 461.3 | 451.8 | 445.6 | 449.3 | 453.0 |
| 40° | 1461.2 | 1464.1 | 1091.5 | 639.4 | 496.9 | 462.9 | 444.8 | 436.0 | 427.5 | 420.9 | 420.4 |
| 42.5° | 1745.2 | 1715.9 | 1163.8 | 591.9 | 463.3 | 453.5 | 433.3 | 422.6 | 409.3 | 391.1 | 387.3 |
| 45° | 2082.4 | 1979.4 | 1218.7 | 537.2 | 425.7 | 441.8 | 420.4 | 405.6 | 385.0 | 365.2 | 363.1 |
| 47.5° | 2470.5 | 2262.3 | 1245.6 | 480.8 | 390.8 | 425.0 | 404.7 | 381.2 | 355.2 | 345.3 | 344.1 |
| 50° | 2944.6 | 2598.1 | 1258.3 | 425.7 | 360.1 | 402.7 | 382.0 | 354.3 | 332.5 | 330.3 | 329.1 |
| 52.5° | 3484.3 | 3002.0 | 1262.5 | 380.8 | 335.0 | 373.8 | 363.5 | 336.5 | 319.3 | 320.9 | 320.9 |
| 55° | 4049.3 | 3419.0 | 1206.3 | 348.2 | 311.8 | 344.1 | 351.1 | 329.6 | 315.1 | 321.8 | 324.2 |
| 57.5° | 4568.1 | 3788.7 | 1029.5 | 322.9 | 290.0 | 321.4 | 346.4 | 336.1 | 326.3 | 353.2 | 354.7 |
| 60° | 4966.1 | 4007.2 | 768.9 | 300.3 | 273.9 | 313.5 | 358.5 | 361.4 | 363.9 | 427.9 | 436.5 |
| 62.5° | 5049.6 | 3934.4 | 528.7 | 282.4 | 266.3 | 320.1 | 380.3 | 380.8 | 377.8 | 422.6 | 427.9 |
| 65° | 4666.8 | 3474.9 | 384.5 | 272.5 | 260.1 | 332.1 | 398.9 | 390.3 | 371.3 | 405.1 | 395.3 |
| 67.5° | 3706.1 | 2617.9 | 320.1 | 265.1 | 251.0 | 331.3 | 418.8 | 398.9 | 367.5 | 397.0 | 380.8 |
| 70° | 2405.7 | 1583.0 | 284.9 | 258.9 | 240.3 | 315.6 | 430.3 | 398.0 | 356.8 | 369.3 | 350.2 |
| 72.5° | 1173.6 | 707.9 | 261.4 | 249.9 | 229.2 | 293.7 | 429.8 | 390.8 | 345.7 | 344.8 | 334.4 |
| 75° | 459.3 | 324.2 | 239.9 | 236.3 | 210.3 | 268.9 | 418.3 | 380.0 | 332.5 | 319.3 | 315.6 |
| 77.5° | 268.9 | 231.3 | 212.7 | 216.0 | 187.4 | 244.1 | 401.5 | 361.4 | 314.2 | 298.5 | 294.5 |
| 80° | 195.7 | 173.1 | 181.3 | 186.7 | 160.3 | 219.2 | 378.7 | 338.7 | 294.0 | 301.9 | 296.1 |
| 82.5° | 125.6 | 111.5 | 147.1 | 152.4 | 133.4 | 194.2 | 353.9 | 314.6 | 265.5 | 241.1 | 235.4 |
| 85° | 64.0 | 70.6 | 109.5 | 116.1 | 102.9 | 159.4 | 323.7 | 282.8 | 233.3 | 200.7 | 204.1 |
| 87.5° | 35.9 | 48.2 | 69.8 | 78.1 | 72.8 | 122.7 | 262.7 | 233.3 | 190.4 | 154.9 | 136.4 |
| 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)