

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: P177331

Luminaire Tested: **VAL-F02-LED-E-U-WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177331
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-F02-LED-E-U-WQ-8030
Description: VALET TUNNEL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4308.8 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

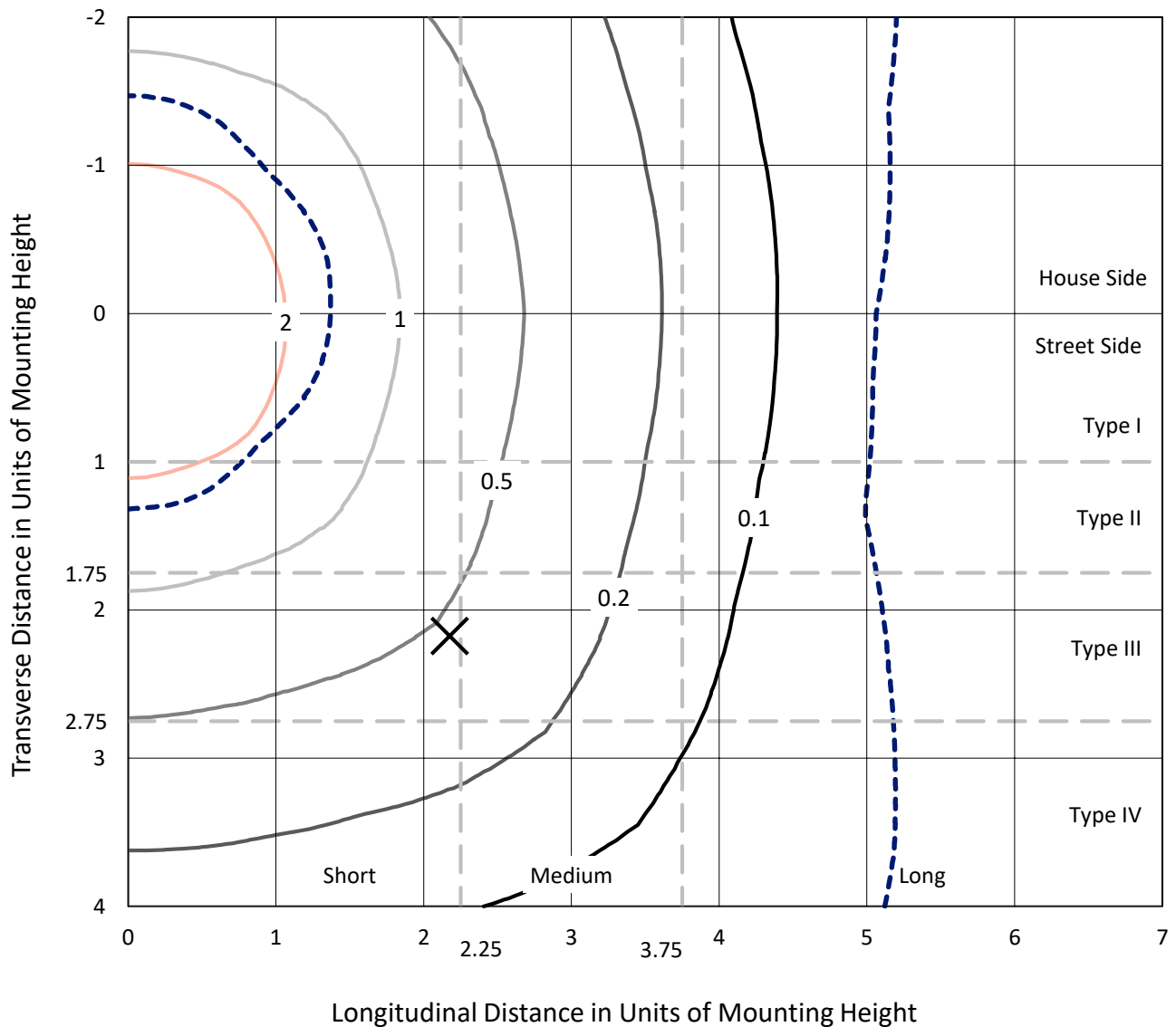
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

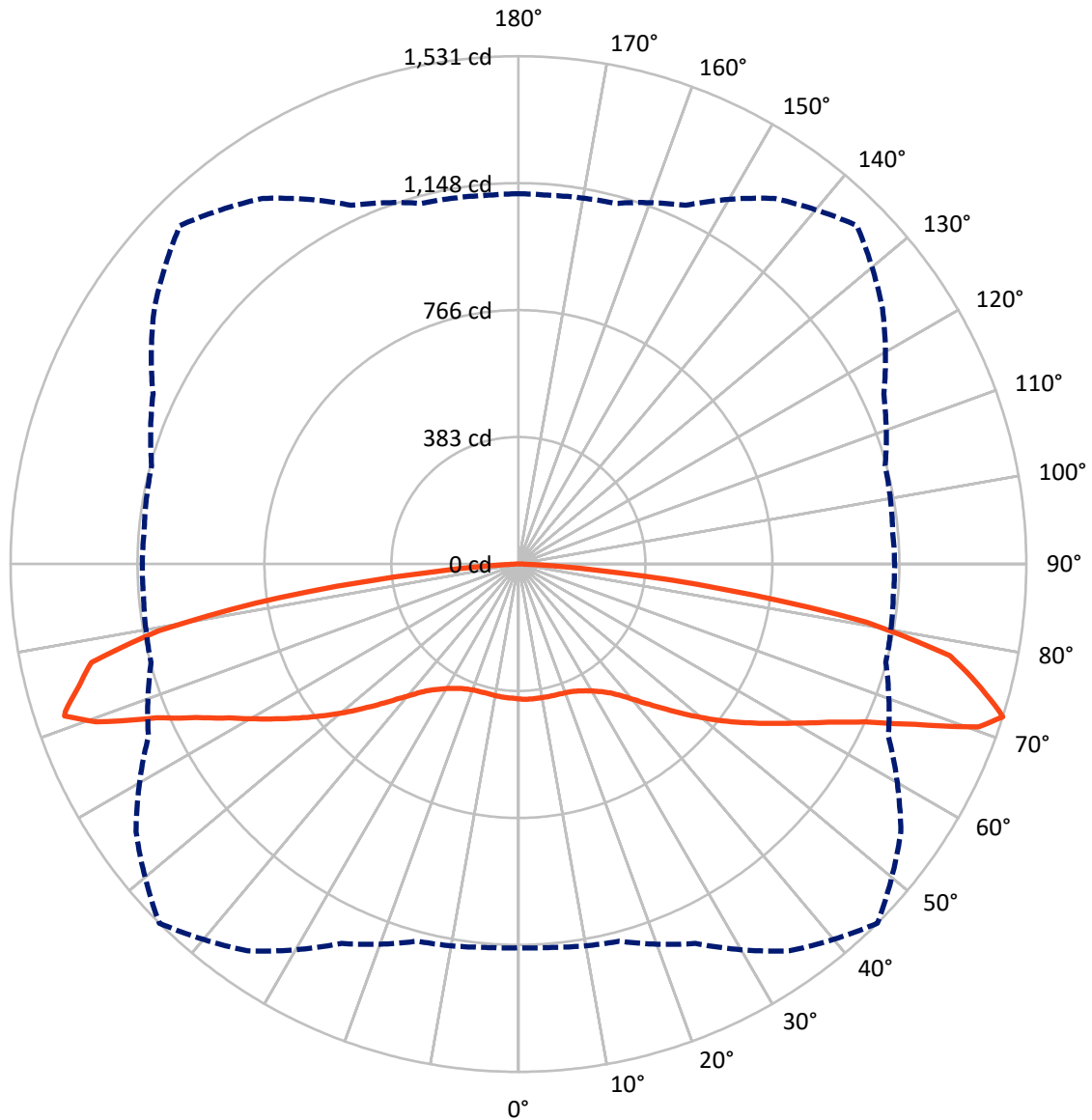


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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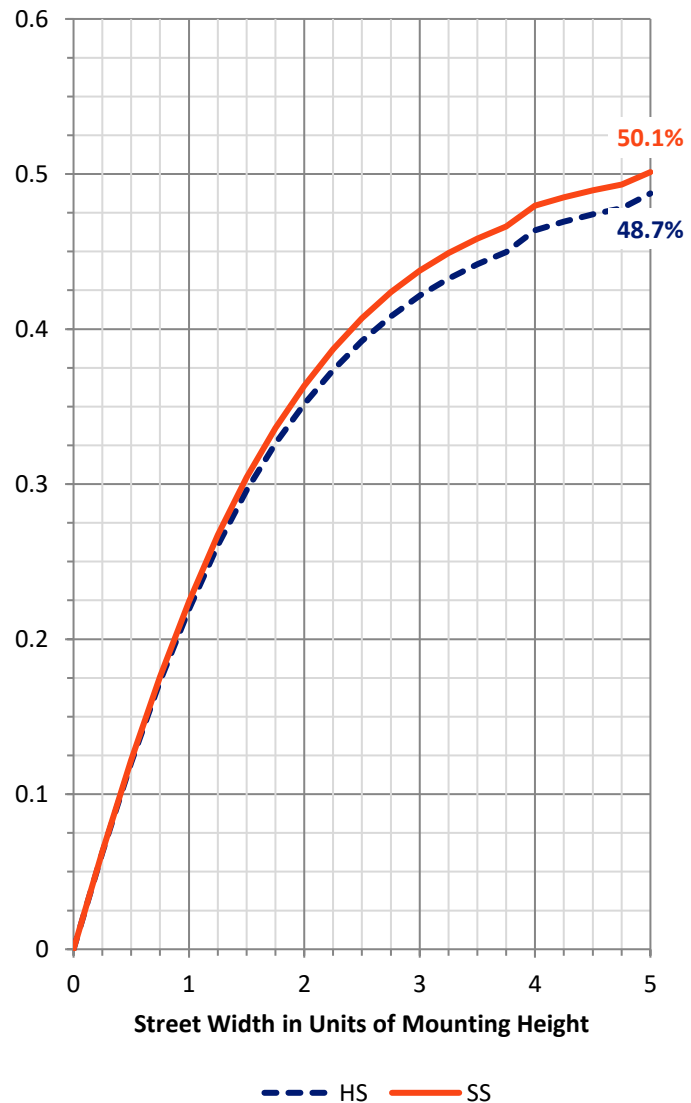
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2124.8 | 0.0 | 2124.8 |
| | % Fixture | 49.3 | 0.0 | 49.3 |
| Street Side | Lumens | 2183.9 | 0.0 | 2183.9 |
| | % Fixture | 50.7 | 0.0 | 50.7 |
| Total | Lumens | 4308.8 | 0.0 | 4308.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 38.8 | 0.9 |
| 10°-20° | 115.4 | 2.7 |
| 20°-30° | 193.8 | 4.5 |
| 30°-40° | 294.9 | 6.8 |
| 40°-50° | 466.3 | 10.8 |
| 50°-60° | 712.1 | 16.5 |
| 60°-70° | 1043.3 | 24.2 |
| 70°-80° | 1185.3 | 27.5 |
| 80°-90° | 258.9 | 6.0 |
| 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° | 4308.8 | 100.0 |
| 0°-180° | 4308.8 | 100.0 |



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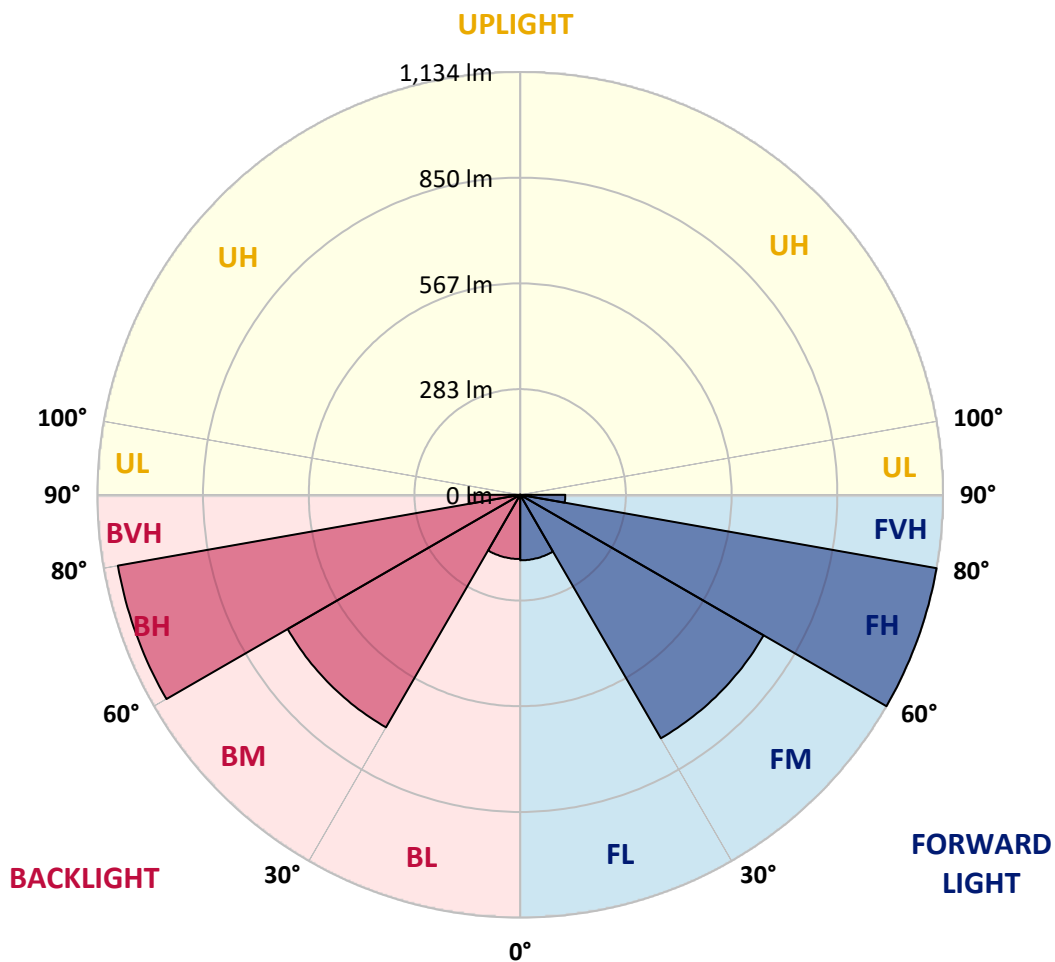
CATALOG NUMBER: VAL-F02-LED-E-U-WQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 175.7 | 4.1 | | | |
| FM (30°-60°) | 753.6 | 17.5 | | | |
| FH (60°-80°) | 1133.5 | 26.3 | | | G1/1800 |
| FVH (80°-90°) | 121.1 | 2.8 | | | G2/225 |
| BL (0°-30°) | 172.3 | 4.0 | B1/500 | | |
| BM (30°-60°) | 719.7 | 16.7 | B1/1000 | | |
| BH (60°-80°) | 1095.0 | 25.4 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 137.8 | 3.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 |
| 2.5° | 410.2 | 410.2 | 409.1 | 408.6 | 408.6 | 408.3 | 408.0 | 408.0 | 407.7 | 408.0 | 407.2 |
| 5° | 410.8 | 410.8 | 409.7 | 409.1 | 408.8 | 408.6 | 408.6 | 408.0 | 407.7 | 408.0 | 407.2 |
| 7.5° | 410.8 | 411.1 | 410.5 | 410.0 | 409.1 | 408.8 | 408.6 | 407.7 | 407.7 | 407.2 | 406.9 |
| 10° | 411.9 | 412.7 | 411.6 | 410.8 | 409.7 | 409.1 | 408.3 | 407.7 | 407.5 | 406.9 | 406.9 |
| 12.5° | 412.7 | 413.6 | 412.5 | 411.6 | 410.5 | 409.7 | 408.6 | 407.7 | 407.2 | 406.3 | 406.6 |
| 15° | 413.9 | 414.7 | 413.6 | 412.5 | 411.4 | 410.2 | 409.1 | 408.0 | 407.2 | 406.6 | 406.6 |
| 17.5° | 414.4 | 415.3 | 414.1 | 413.0 | 412.2 | 411.6 | 410.2 | 408.6 | 407.5 | 406.9 | 406.9 |
| 20° | 415.3 | 416.1 | 415.3 | 414.7 | 413.9 | 413.6 | 412.2 | 410.2 | 408.8 | 408.0 | 407.7 |
| 22.5° | 417.2 | 417.8 | 417.5 | 417.5 | 417.5 | 417.2 | 416.1 | 413.0 | 411.4 | 410.0 | 409.7 |
| 25° | 421.9 | 421.7 | 422.2 | 422.8 | 423.1 | 423.6 | 421.9 | 418.6 | 416.4 | 414.1 | 413.9 |
| 27.5° | 429.7 | 430.0 | 430.3 | 431.4 | 432.5 | 432.8 | 431.1 | 427.5 | 424.2 | 421.1 | 420.8 |
| 30° | 438.7 | 438.7 | 439.8 | 442.0 | 443.1 | 444.0 | 442.3 | 437.8 | 433.6 | 430.6 | 430.0 |
| 32.5° | 451.5 | 452.6 | 453.2 | 455.7 | 457.9 | 458.7 | 456.2 | 451.5 | 446.7 | 442.8 | 442.0 |
| 35° | 469.9 | 471.6 | 472.1 | 474.3 | 476.8 | 477.1 | 474.9 | 469.6 | 464.6 | 459.3 | 459.6 |
| 37.5° | 495.8 | 496.1 | 497.5 | 498.0 | 502.8 | 502.8 | 499.1 | 494.4 | 489.4 | 484.6 | 483.3 |
| 40° | 530.4 | 530.6 | 531.2 | 530.4 | 535.9 | 537.6 | 532.9 | 525.6 | 520.9 | 514.7 | 513.9 |
| 42.5° | 568.0 | 570.8 | 570.5 | 569.1 | 574.7 | 578.3 | 572.4 | 564.1 | 559.1 | 552.7 | 551.5 |
| 45° | 614.5 | 614.0 | 611.5 | 614.5 | 620.9 | 624.8 | 617.6 | 607.0 | 601.7 | 593.6 | 593.3 |
| 47.5° | 659.7 | 659.1 | 655.2 | 657.4 | 669.4 | 675.8 | 665.2 | 653.3 | 646.3 | 641.6 | 637.9 |
| 50° | 702.6 | 706.5 | 701.5 | 706.2 | 721.8 | 730.5 | 720.7 | 701.8 | 693.4 | 686.1 | 684.2 |
| 52.5° | 753.0 | 755.3 | 750.8 | 758.3 | 775.6 | 788.1 | 774.8 | 750.2 | 741.9 | 733.8 | 731.3 |
| 55° | 804.6 | 803.5 | 801.2 | 809.6 | 830.8 | 845.6 | 831.1 | 801.5 | 789.3 | 783.1 | 783.1 |
| 57.5° | 855.3 | 855.9 | 850.6 | 860.6 | 887.4 | 906.9 | 888.8 | 852.5 | 837.5 | 830.5 | 832.7 |
| 60° | 909.7 | 909.7 | 901.6 | 910.8 | 948.1 | 972.9 | 945.6 | 904.1 | 887.6 | 883.5 | 883.7 |
| 62.5° | 970.7 | 968.5 | 959.5 | 971.0 | 1016.4 | 1049.3 | 1015.0 | 963.2 | 941.7 | 941.7 | 943.7 |
| 65° | 1041.2 | 1037.6 | 1034.5 | 1047.6 | 1106.4 | 1146.5 | 1101.4 | 1035.9 | 1017.0 | 1014.7 | 1018.3 |
| 67.5° | 1142.6 | 1146.5 | 1138.7 | 1156.0 | 1236.3 | 1288.7 | 1220.1 | 1135.7 | 1115.6 | 1113.7 | 1122.6 |
| 70° | 1234.1 | 1230.2 | 1240.2 | 1289.0 | 1398.2 | 1471.2 | 1375.9 | 1246.0 | 1188.6 | 1176.9 | 1180.5 |
| 72° | 1157.1 | 1160.2 | 1177.2 | 1261.9 | 1423.8 | 1531.1 | 1407.4 | 1230.7 | 1146.5 | 1134.3 | 1134.0 |
| 72.5° | 1139.3 | 1141.5 | 1156.0 | 1237.4 | 1405.5 | 1515.3 | 1391.5 | 1211.2 | 1131.8 | 1121.2 | 1120.6 |
| 75° | 1045.7 | 1050.1 | 1073.0 | 1152.1 | 1322.7 | 1426.1 | 1309.9 | 1141.3 | 1054.0 | 1034.0 | 1038.1 |
| 77.5° | 890.7 | 899.9 | 923.0 | 1014.2 | 1214.3 | 1329.9 | 1205.6 | 1011.7 | 913.8 | 899.1 | 894.3 |
| 80° | 653.5 | 641.3 | 683.1 | 763.9 | 906.3 | 1065.4 | 919.4 | 762.2 | 660.8 | 633.8 | 640.4 |
| 82.5° | 222.4 | 227.7 | 293.7 | 392.1 | 497.5 | 622.0 | 528.1 | 381.8 | 281.2 | 247.2 | 232.2 |
| 85° | 27.0 | 29.3 | 45.7 | 83.3 | 156.6 | 226.3 | 160.0 | 84.7 | 52.7 | 32.3 | 28.4 |
| 87.5° | 13.1 | 13.9 | 19.5 | 20.9 | 25.9 | 22.0 | 26.2 | 16.7 | 15.9 | 9.8 | 8.1 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 |
| 2.5° | 406.9 | 406.3 | 406.1 | 405.5 | 404.9 | 404.9 | 404.9 | 404.9 | 404.9 | 405.2 |
| 5° | 406.9 | 406.3 | 406.1 | 405.2 | 404.7 | 404.7 | 404.4 | 404.7 | 404.4 | 404.7 |
| 7.5° | 406.9 | 406.1 | 405.2 | 404.4 | 403.8 | 404.1 | 403.5 | 403.3 | 403.5 | 403.5 |
| 10° | 406.6 | 405.2 | 404.1 | 403.3 | 403.0 | 402.7 | 402.7 | 402.4 | 403.0 | 402.7 |
| 12.5° | 406.3 | 404.7 | 403.3 | 402.2 | 401.9 | 401.9 | 401.9 | 401.9 | 402.7 | 402.4 |
| 15° | 406.1 | 404.4 | 403.0 | 401.6 | 401.3 | 401.9 | 401.9 | 402.4 | 403.0 | 403.0 |
| 17.5° | 406.3 | 404.4 | 402.7 | 401.6 | 401.6 | 402.2 | 402.4 | 403.3 | 404.1 | 403.5 |
| 20° | 407.5 | 405.2 | 403.8 | 402.7 | 403.3 | 403.8 | 403.8 | 404.4 | 405.2 | 404.7 |
| 22.5° | 409.1 | 407.5 | 406.3 | 406.1 | 406.9 | 407.2 | 406.9 | 406.6 | 406.9 | 406.3 |
| 25° | 413.0 | 411.4 | 410.5 | 411.6 | 412.5 | 412.2 | 411.1 | 410.0 | 409.4 | 409.1 |
| 27.5° | 420.3 | 418.9 | 418.6 | 420.0 | 420.8 | 419.4 | 417.5 | 415.8 | 415.3 | 414.4 |
| 30° | 429.2 | 428.4 | 429.2 | 430.6 | 430.9 | 428.6 | 425.8 | 423.3 | 422.5 | 422.5 |
| 32.5° | 440.9 | 440.1 | 442.0 | 444.2 | 444.8 | 441.7 | 437.3 | 433.9 | 431.7 | 431.4 |
| 35° | 457.9 | 457.3 | 457.9 | 460.7 | 460.4 | 457.3 | 452.3 | 448.4 | 446.2 | 446.2 |
| 37.5° | 481.6 | 481.0 | 479.6 | 482.4 | 482.1 | 478.0 | 472.7 | 469.3 | 466.8 | 467.1 |
| 40° | 512.5 | 511.7 | 510.0 | 510.6 | 512.8 | 507.2 | 500.5 | 496.1 | 495.8 | 495.8 |
| 42.5° | 549.6 | 545.7 | 546.2 | 549.6 | 547.9 | 541.2 | 535.1 | 531.2 | 531.2 | 530.9 |
| 45° | 590.0 | 588.6 | 588.0 | 589.2 | 590.6 | 585.3 | 574.9 | 570.5 | 570.2 | 570.2 |
| 47.5° | 636.8 | 629.8 | 631.2 | 634.0 | 637.4 | 630.7 | 617.6 | 612.3 | 611.5 | 611.7 |
| 50° | 682.5 | 675.3 | 676.7 | 682.5 | 688.9 | 678.3 | 662.2 | 655.8 | 654.7 | 655.2 |
| 52.5° | 729.9 | 723.8 | 723.8 | 733.5 | 741.9 | 728.8 | 708.4 | 700.6 | 700.6 | 700.4 |
| 55° | 780.1 | 771.7 | 775.0 | 787.6 | 797.6 | 781.7 | 756.7 | 750.5 | 745.8 | 747.7 |
| 57.5° | 830.0 | 821.6 | 824.4 | 843.6 | 856.1 | 837.2 | 805.7 | 792.9 | 790.1 | 789.5 |
| 60° | 881.0 | 871.5 | 874.8 | 904.9 | 919.7 | 894.6 | 848.3 | 832.7 | 830.2 | 830.0 |
| 62.5° | 937.5 | 930.8 | 935.9 | 970.7 | 987.7 | 952.0 | 893.8 | 875.9 | 876.8 | 874.8 |
| 65° | 1008.0 | 1002.7 | 1011.4 | 1054.0 | 1074.9 | 1022.5 | 952.6 | 932.0 | 934.5 | 934.2 |
| 67.5° | 1108.9 | 1102.5 | 1107.8 | 1167.5 | 1186.1 | 1119.0 | 1034.2 | 1013.9 | 1017.8 | 1024.2 |
| 70° | 1172.2 | 1176.9 | 1224.6 | 1308.2 | 1359.5 | 1290.9 | 1178.9 | 1140.7 | 1142.6 | 1143.5 |
| 72° | 1132.6 | 1144.6 | 1215.4 | 1340.2 | 1443.1 | 1345.5 | 1193.1 | 1125.4 | 1115.3 | 1116.4 |
| 72.5° | 1122.0 | 1131.2 | 1202.3 | 1326.9 | 1436.1 | 1333.8 | 1177.8 | 1113.7 | 1097.5 | 1098.1 |
| 75° | 1042.3 | 1059.9 | 1128.2 | 1257.7 | 1374.8 | 1275.0 | 1118.7 | 1050.4 | 1037.9 | 1037.9 |
| 77.5° | 904.9 | 929.4 | 999.4 | 1181.4 | 1321.8 | 1213.2 | 1043.7 | 959.3 | 946.4 | 941.7 |
| 80° | 665.8 | 701.8 | 770.6 | 950.3 | 1102.0 | 1002.7 | 859.2 | 772.3 | 752.2 | 744.9 |
| 82.5° | 262.3 | 293.2 | 408.8 | 572.4 | 726.3 | 618.1 | 467.4 | 389.9 | 327.7 | 321.1 |
| 85° | 32.6 | 52.7 | 103.1 | 188.7 | 288.4 | 205.1 | 122.3 | 64.1 | 34.6 | 29.0 |
| 87.5° | 9.5 | 17.8 | 19.5 | 31.8 | 37.6 | 34.6 | 21.7 | 19.5 | 10.9 | 9.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)