

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: P233714

Luminaire Tested: **VERD-C015-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C015-D-U-T3-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 750mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3202 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

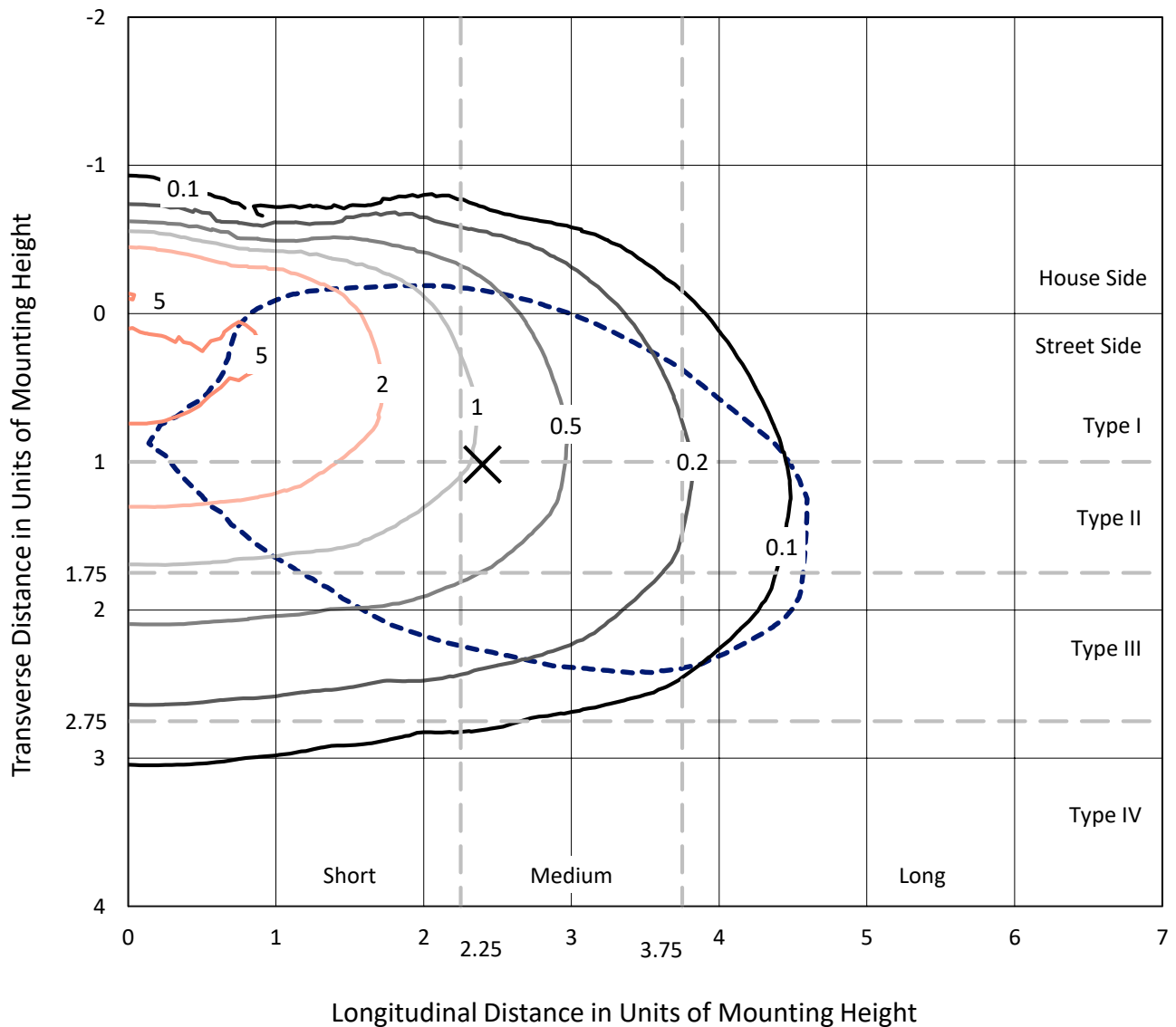
Input Watts (W): 30
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

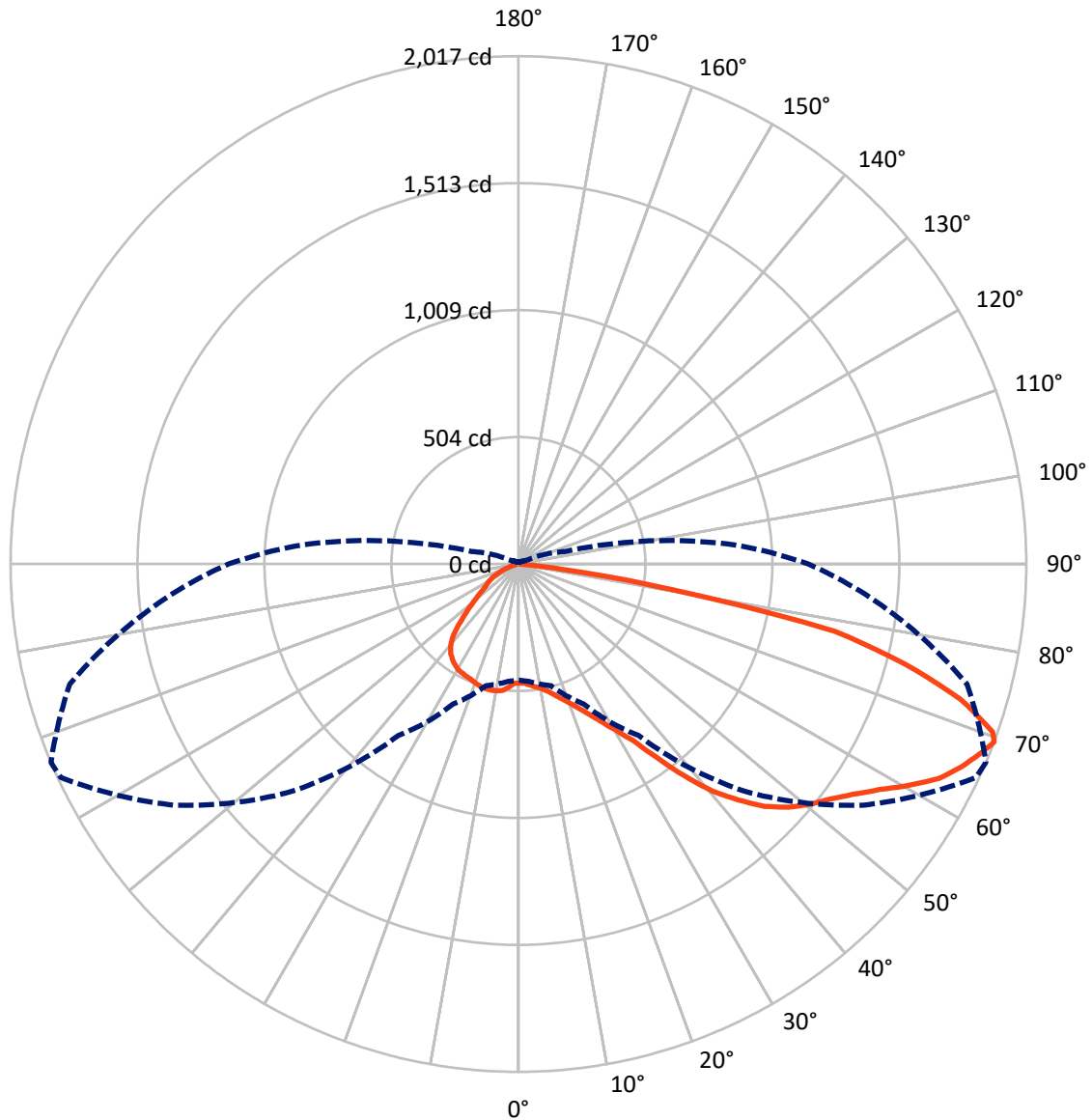
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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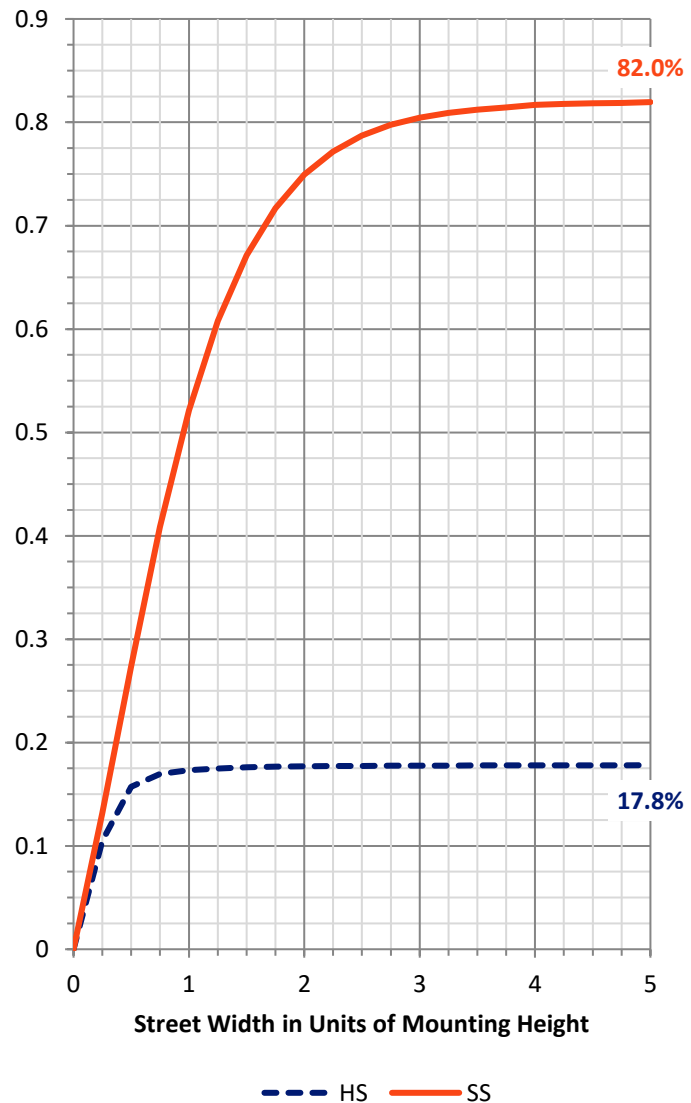
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 577.2 | 0.0 | 577.2 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 2624.8 | 0.0 | 2624.8 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 3202.0 | 0.0 | 3202.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.8 | 1.5 |
| 10°-20° | 150.3 | 4.7 |
| 20°-30° | 256.6 | 8.0 |
| 30°-40° | 387.9 | 12.1 |
| 40°-50° | 548.0 | 17.1 |
| 50°-60° | 662.3 | 20.7 |
| 60°-70° | 698.9 | 21.8 |
| 70°-80° | 420.7 | 13.1 |
| 80°-90° | 29.4 | 0.9 |
| 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° | 3202.0 | 100.0 |
| 0°-180° | 3202.0 | 100.0 |

Coefficient of Utilization



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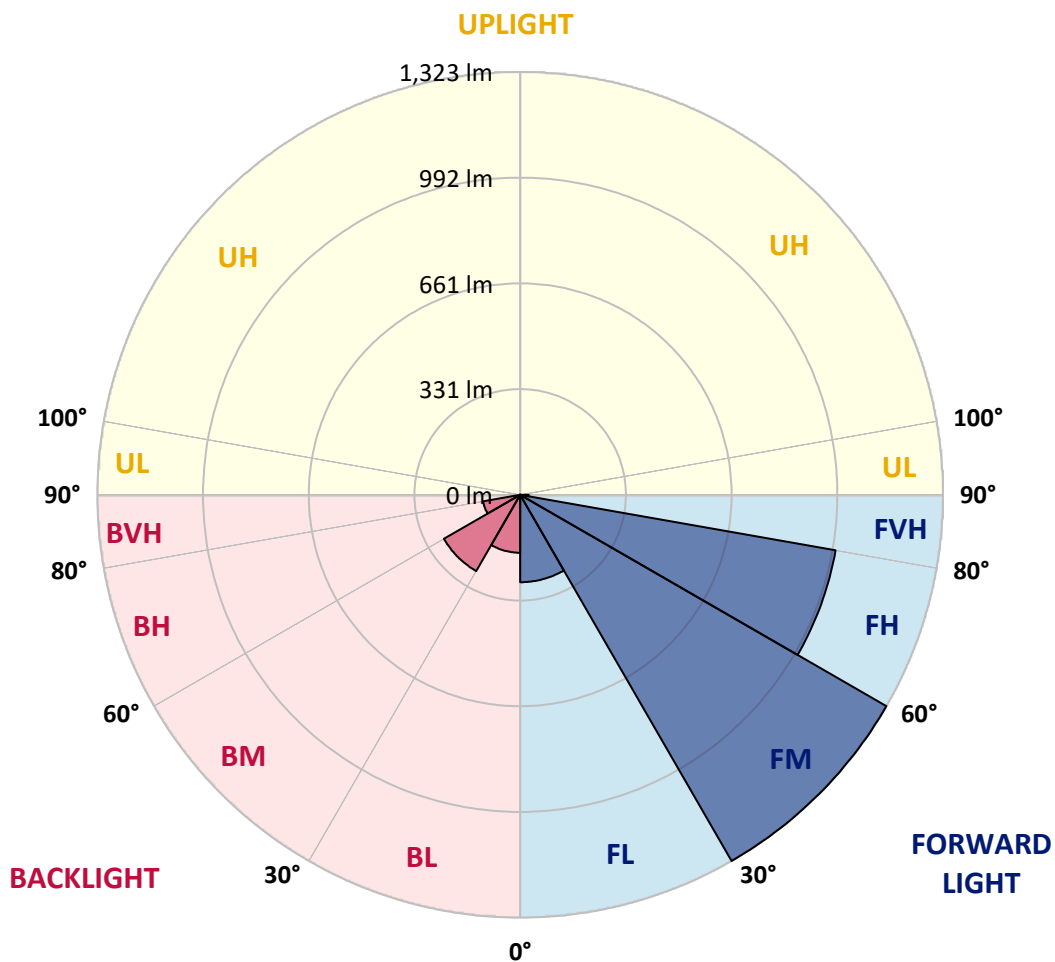
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 273.4 | 8.5 | | | |
| FM | (30°-60°) | 1322.9 | 41.3 | | | |
| FH | (60°-80°) | 1001.9 | 31.3 | | | G1/1800 |
| FVH | (80°-90°) | 26.6 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 181.3 | 5.7 | B1/500 | | |
| BM | (30°-60°) | 275.4 | 8.6 | B1/1000 | | |
| BH | (60°-80°) | 117.7 | 3.7 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.9 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 |
| 2.5° | 485.8 | 485.0 | 485.0 | 480.7 | 476.6 | 475.6 | 475.3 | 474.0 | 474.3 | 472.5 | 470.7 |
| 5° | 499.8 | 499.8 | 499.3 | 493.7 | 489.3 | 486.5 | 484.8 | 482.5 | 482.7 | 481.4 | 479.9 |
| 7.5° | 521.0 | 521.2 | 520.2 | 512.8 | 508.5 | 501.6 | 497.5 | 493.2 | 492.9 | 491.4 | 491.9 |
| 10° | 547.0 | 547.8 | 546.2 | 536.8 | 529.4 | 520.0 | 511.3 | 503.6 | 503.1 | 501.3 | 502.9 |
| 12.5° | 576.3 | 577.4 | 573.5 | 563.8 | 555.4 | 540.6 | 530.2 | 520.0 | 518.4 | 518.2 | 519.2 |
| 15° | 610.0 | 610.5 | 609.3 | 595.0 | 584.8 | 571.2 | 554.1 | 541.1 | 539.6 | 539.9 | 538.6 |
| 17.5° | 647.5 | 648.8 | 646.0 | 633.2 | 619.7 | 601.1 | 580.7 | 564.6 | 563.8 | 563.1 | 557.5 |
| 20° | 687.3 | 688.6 | 686.8 | 674.8 | 658.8 | 635.3 | 610.3 | 591.9 | 591.7 | 589.9 | 576.9 |
| 22.5° | 732.2 | 734.0 | 733.0 | 718.5 | 701.4 | 675.8 | 644.7 | 625.6 | 625.1 | 619.5 | 599.8 |
| 25° | 781.0 | 780.5 | 781.5 | 765.9 | 749.8 | 723.0 | 684.5 | 664.6 | 664.6 | 657.7 | 628.6 |
| 27.5° | 828.2 | 827.9 | 829.7 | 818.7 | 801.9 | 776.6 | 730.2 | 710.0 | 711.8 | 701.9 | 663.3 |
| 30° | 874.1 | 874.1 | 878.4 | 871.3 | 858.8 | 832.2 | 786.8 | 765.7 | 768.0 | 757.5 | 707.2 |
| 32.5° | 916.9 | 919.0 | 926.4 | 922.1 | 912.6 | 888.6 | 849.8 | 830.5 | 835.8 | 840.2 | 788.9 |
| 35° | 948.6 | 950.6 | 967.7 | 969.3 | 967.0 | 950.9 | 922.1 | 934.6 | 940.9 | 975.1 | 918.0 |
| 37.5° | 976.4 | 978.9 | 999.4 | 1012.1 | 1019.5 | 1009.6 | 1011.3 | 1053.2 | 1065.2 | 1105.5 | 1028.2 |
| 40° | 996.8 | 1002.4 | 1022.6 | 1040.2 | 1066.2 | 1077.9 | 1107.0 | 1166.5 | 1185.9 | 1201.9 | 1104.0 |
| 42.5° | 982.8 | 986.6 | 1022.1 | 1069.3 | 1107.3 | 1148.6 | 1195.8 | 1266.5 | 1281.0 | 1275.9 | 1170.8 |
| 45° | 962.1 | 966.7 | 1003.9 | 1076.9 | 1139.9 | 1222.3 | 1280.0 | 1356.5 | 1373.1 | 1344.8 | 1228.5 |
| 47.5° | 938.9 | 945.3 | 985.6 | 1066.7 | 1167.2 | 1290.2 | 1356.3 | 1433.8 | 1443.5 | 1406.3 | 1276.9 |
| 50° | 915.4 | 922.6 | 968.2 | 1058.3 | 1188.4 | 1346.8 | 1411.9 | 1496.9 | 1499.7 | 1457.3 | 1320.6 |
| 52.5° | 883.8 | 891.2 | 941.2 | 1040.7 | 1203.2 | 1384.1 | 1460.6 | 1548.7 | 1550.4 | 1512.4 | 1361.9 |
| 55° | 843.7 | 853.2 | 906.0 | 1014.7 | 1206.8 | 1405.8 | 1491.5 | 1602.5 | 1614.5 | 1572.1 | 1395.8 |
| 57.5° | 796.5 | 805.2 | 863.4 | 977.2 | 1188.9 | 1413.2 | 1534.6 | 1673.7 | 1690.3 | 1632.6 | 1423.9 |
| 60° | 742.2 | 752.1 | 810.6 | 928.7 | 1152.9 | 1433.8 | 1606.1 | 1774.2 | 1784.1 | 1695.9 | 1448.6 |
| 62.5° | 686.6 | 693.7 | 746.8 | 860.6 | 1096.8 | 1446.4 | 1669.3 | 1868.6 | 1875.2 | 1756.8 | 1463.4 |
| 65° | 607.5 | 616.4 | 668.2 | 782.5 | 1015.9 | 1422.4 | 1693.6 | 1933.1 | 1937.2 | 1807.9 | 1456.3 |
| 67.5° | 521.5 | 528.6 | 566.4 | 688.3 | 909.8 | 1346.3 | 1683.6 | 1976.3 | 1989.3 | 1847.7 | 1423.9 |
| 69° | 460.5 | 467.7 | 500.3 | 613.1 | 831.0 | 1279.0 | 1669.6 | 2005.6 | 2017.1 | 1844.9 | 1382.6 |
| 70° | 413.1 | 420.2 | 451.1 | 557.0 | 769.2 | 1222.1 | 1647.4 | 1990.8 | 1998.2 | 1813.5 | 1342.3 |
| 72.5° | 295.4 | 302.6 | 327.8 | 391.6 | 582.7 | 1004.5 | 1509.9 | 1826.5 | 1836.4 | 1662.7 | 1199.6 |
| 75° | 154.6 | 171.7 | 217.1 | 253.1 | 345.2 | 707.2 | 1255.3 | 1570.9 | 1585.4 | 1459.1 | 986.6 |
| 77.5° | 19.9 | 20.9 | 61.2 | 102.8 | 142.6 | 298.3 | 891.7 | 1261.4 | 1284.3 | 1167.7 | 682.2 |
| 80° | 16.1 | 16.3 | 21.2 | 51.3 | 70.9 | 120.9 | 316.4 | 590.4 | 618.2 | 518.9 | 250.8 |
| 82.5° | 11.2 | 11.7 | 16.6 | 27.0 | 23.2 | 44.1 | 110.0 | 166.9 | 172.0 | 148.7 | 100.0 |
| 85° | 6.4 | 6.4 | 7.9 | 10.5 | 7.4 | 16.6 | 22.7 | 24.2 | 21.7 | 21.4 | 16.1 |
| 87.5° | 1.8 | 2.0 | 2.3 | 1.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 0.8 | 0.8 |
| 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° | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 |
| 2.5° | 473.5 | 473.0 | 473.3 | 474.3 | 475.8 | 481.4 | 485.3 | 485.8 | 487.6 | 494.2 | 493.4 |
| 5° | 481.7 | 484.8 | 486.5 | 491.9 | 495.5 | 503.1 | 507.7 | 508.2 | 510.8 | 517.7 | 517.9 |
| 7.5° | 493.2 | 498.3 | 500.8 | 506.9 | 508.2 | 511.8 | 513.1 | 511.8 | 512.1 | 518.2 | 518.7 |
| 10° | 503.1 | 509.5 | 509.5 | 511.0 | 508.7 | 509.0 | 504.9 | 501.1 | 499.0 | 504.4 | 505.7 |
| 12.5° | 518.4 | 520.2 | 516.1 | 511.5 | 504.7 | 498.5 | 491.6 | 485.5 | 480.7 | 483.7 | 481.9 |
| 15° | 534.2 | 531.4 | 521.5 | 509.5 | 497.3 | 486.8 | 472.5 | 463.6 | 455.2 | 456.9 | 455.4 |
| 17.5° | 550.1 | 540.9 | 525.3 | 505.4 | 487.6 | 467.7 | 447.8 | 433.7 | 418.4 | 417.1 | 414.8 |
| 20° | 565.4 | 552.1 | 526.3 | 497.0 | 472.0 | 443.9 | 413.1 | 389.1 | 366.4 | 360.5 | 356.7 |
| 22.5° | 583.7 | 564.6 | 527.6 | 488.8 | 455.2 | 416.9 | 370.2 | 332.9 | 308.5 | 300.3 | 296.5 |
| 25° | 607.2 | 582.0 | 531.2 | 482.7 | 438.1 | 383.5 | 319.4 | 276.8 | 250.3 | 236.3 | 235.0 |
| 27.5° | 635.0 | 602.9 | 537.3 | 474.8 | 413.8 | 338.8 | 266.9 | 222.5 | 194.2 | 179.9 | 175.3 |
| 30° | 671.5 | 628.9 | 542.9 | 468.7 | 379.6 | 290.1 | 211.8 | 162.3 | 128.6 | 119.4 | 114.6 |
| 32.5° | 740.7 | 671.3 | 550.1 | 454.4 | 339.3 | 236.8 | 150.0 | 100.0 | 77.1 | 70.9 | 70.9 |
| 35° | 853.2 | 764.4 | 567.9 | 434.7 | 290.9 | 172.5 | 90.1 | 56.1 | 45.9 | 42.4 | 40.6 |
| 37.5° | 954.7 | 858.3 | 612.6 | 404.4 | 231.9 | 102.1 | 51.5 | 34.7 | 31.4 | 31.9 | 31.9 |
| 40° | 1026.4 | 922.6 | 661.8 | 363.3 | 157.4 | 54.6 | 32.7 | 27.8 | 28.3 | 28.6 | 28.6 |
| 42.5° | 1087.9 | 977.4 | 688.9 | 314.6 | 85.7 | 35.5 | 28.1 | 25.3 | 26.0 | 25.8 | 25.5 |
| 45° | 1139.4 | 1022.1 | 697.8 | 247.5 | 41.6 | 31.4 | 25.5 | 23.2 | 23.2 | 23.0 | 23.0 |
| 47.5° | 1183.6 | 1061.6 | 681.2 | 184.0 | 33.7 | 28.8 | 24.2 | 21.4 | 21.2 | 22.5 | 22.5 |
| 50° | 1223.9 | 1092.2 | 639.9 | 139.3 | 32.7 | 26.5 | 23.0 | 19.9 | 20.2 | 21.9 | 21.9 |
| 52.5° | 1257.6 | 1110.3 | 578.6 | 104.3 | 30.4 | 24.5 | 21.2 | 18.6 | 18.6 | 20.4 | 20.4 |
| 55° | 1282.6 | 1110.3 | 532.0 | 78.1 | 29.1 | 22.5 | 19.6 | 17.9 | 16.8 | 17.3 | 17.6 |
| 57.5° | 1295.1 | 1089.4 | 494.4 | 63.3 | 27.6 | 20.4 | 18.1 | 15.6 | 13.8 | 14.3 | 14.0 |
| 60° | 1291.7 | 1077.4 | 451.3 | 56.4 | 25.8 | 18.9 | 16.1 | 13.3 | 11.5 | 11.0 | 11.0 |
| 62.5° | 1285.6 | 1063.9 | 397.5 | 49.0 | 24.0 | 17.6 | 13.3 | 10.7 | 9.7 | 9.2 | 9.4 |
| 65° | 1262.4 | 1020.0 | 329.4 | 40.8 | 22.2 | 17.1 | 11.2 | 9.4 | 8.4 | 7.9 | 7.9 |
| 67.5° | 1206.3 | 940.9 | 249.0 | 34.4 | 20.7 | 13.8 | 9.7 | 8.2 | 7.1 | 6.6 | 6.6 |
| 69° | 1150.7 | 865.4 | 191.1 | 31.4 | 19.6 | 12.5 | 8.9 | 7.4 | 6.6 | 5.9 | 5.9 |
| 70° | 1102.7 | 807.0 | 149.8 | 29.3 | 18.9 | 12.0 | 8.7 | 7.1 | 6.4 | 5.6 | 5.6 |
| 72.5° | 938.9 | 640.1 | 76.0 | 25.5 | 15.8 | 10.5 | 7.7 | 6.4 | 5.4 | 4.6 | 4.6 |
| 75° | 728.4 | 441.1 | 50.3 | 20.2 | 12.2 | 9.4 | 6.9 | 5.6 | 4.6 | 3.8 | 3.6 |
| 77.5° | 438.3 | 172.5 | 36.0 | 13.0 | 7.9 | 7.4 | 5.6 | 4.6 | 3.8 | 3.1 | 3.1 |
| 80° | 120.9 | 74.0 | 24.2 | 8.7 | 4.6 | 4.8 | 4.1 | 3.3 | 2.8 | 2.3 | 2.3 |
| 82.5° | 72.7 | 48.0 | 16.1 | 5.6 | 3.1 | 3.1 | 2.3 | 2.3 | 1.8 | 1.8 | 1.8 |
| 85° | 12.5 | 9.7 | 3.8 | 2.3 | 1.8 | 1.8 | 1.3 | 0.8 | 0.8 | 0.8 | 0.8 |
| 87.5° | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 0.8 | 0.5 | 0.3 | 0.0 | 0.0 | 0.0 |
| 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)