

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: P156979

Luminaire Tested: **UTLD-E02-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156979
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33666)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-5XQ-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5193.4 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

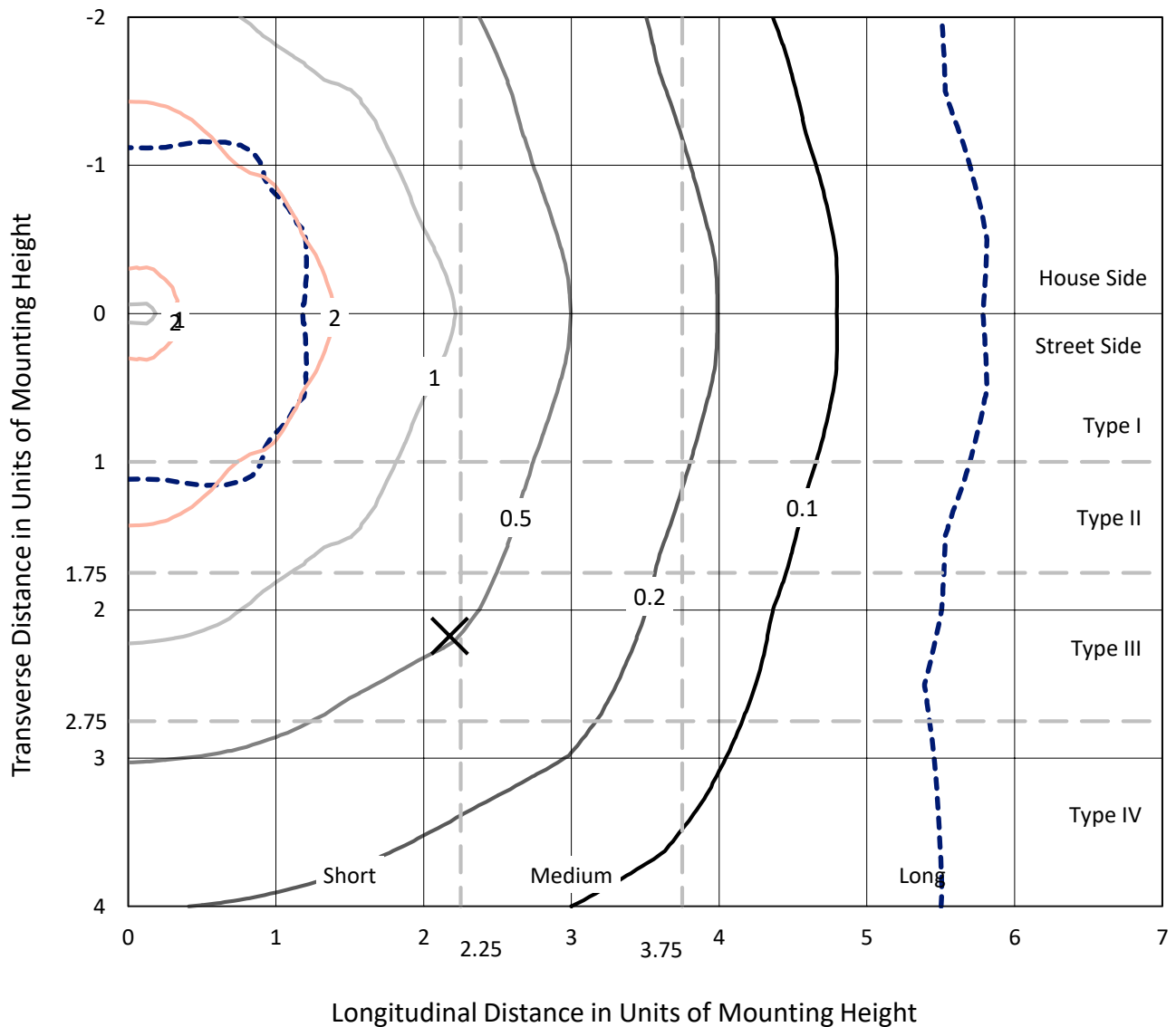
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

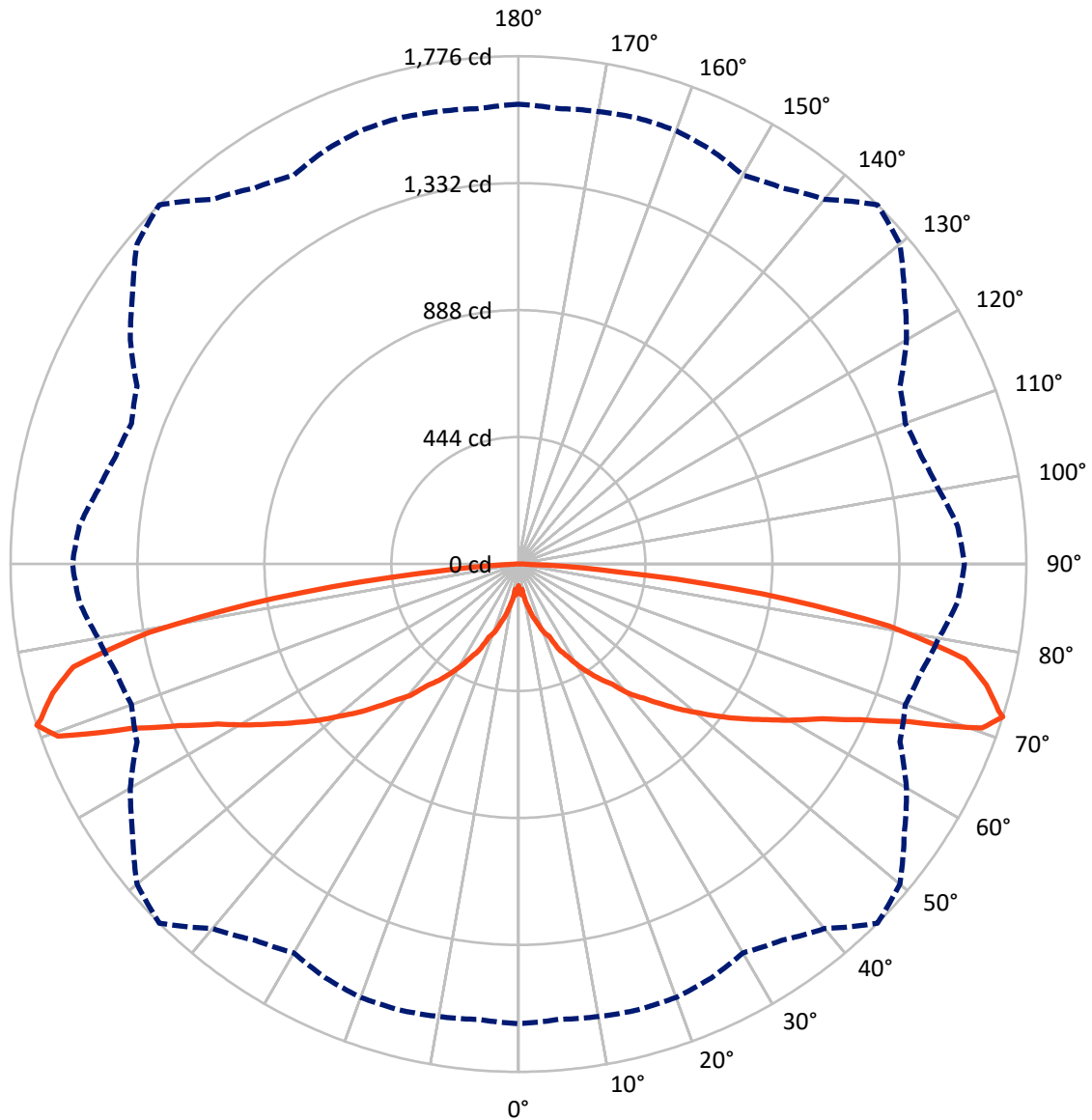
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 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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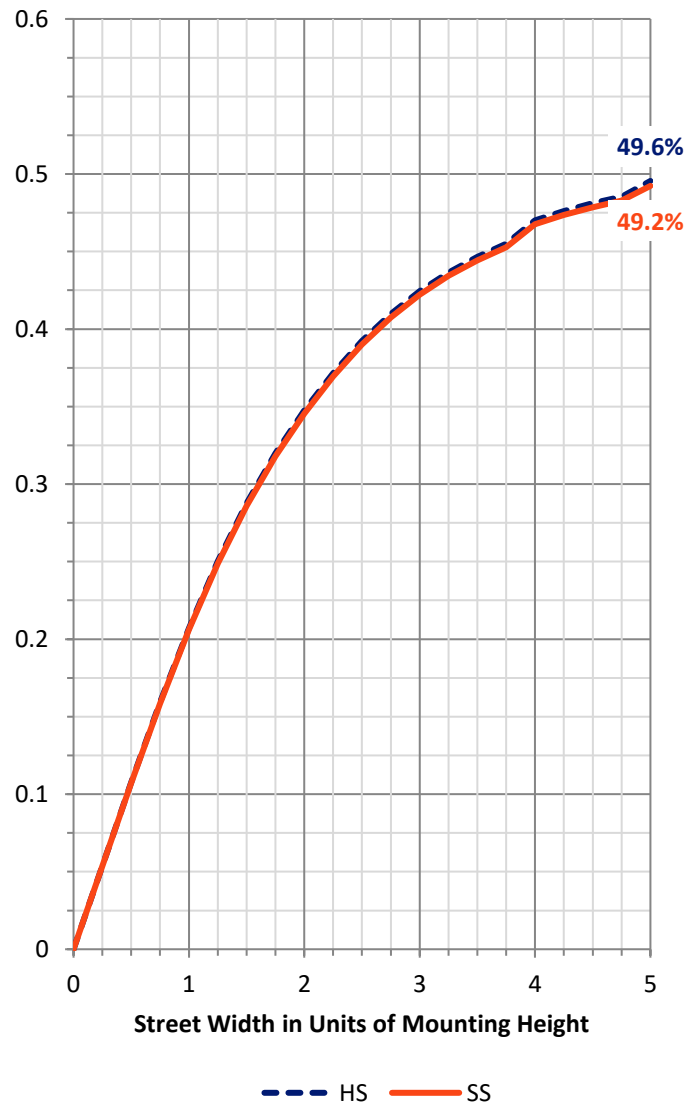
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2596.7 | 0.0 | 2596.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2596.7 | 0.0 | 2596.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5193.4 | 0.0 | 5193.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 10.1 | 0.2 |
| 10°-20° | 55.2 | 1.1 |
| 20°-30° | 163.9 | 3.2 |
| 30°-40° | 332.9 | 6.4 |
| 40°-50° | 567.8 | 10.9 |
| 50°-60° | 880.8 | 17.0 |
| 60°-70° | 1320.7 | 25.4 |
| 70°-80° | 1527.7 | 29.4 |
| 80°-90° | 334.2 | 6.4 |
| 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° | 5193.4 | 100.0 |
| 0°-180° | 5193.4 | 100.0 |



REPORT NUMBER: P156979

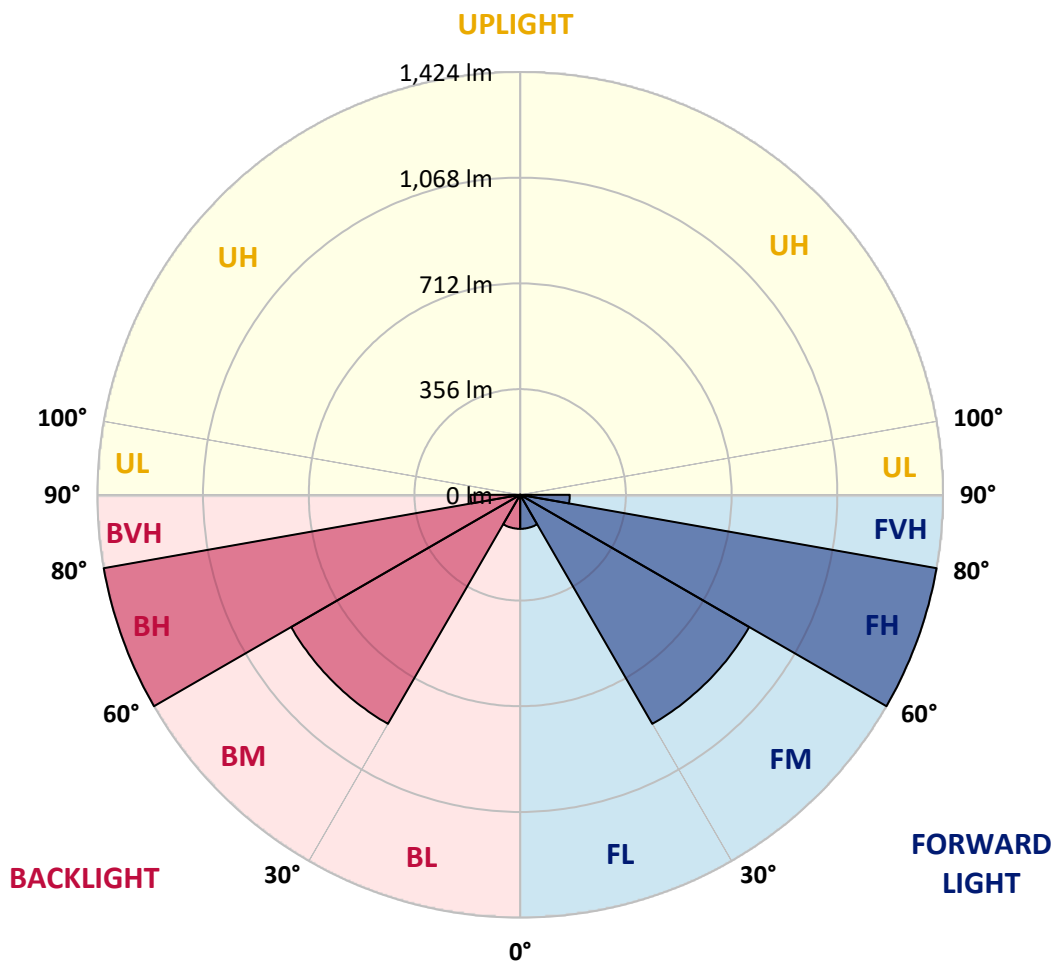
CATALOG NUMBER: UTLD-E02-LED-E-U-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 114.6 | 2.2 | | | |
| FM | (30°-60°) | 890.8 | 17.2 | | | |
| FH | (60°-80°) | 1424.2 | 27.4 | | | G1/1800 |
| FVH | (80°-90°) | 167.1 | 3.2 | | | G2/225 |
| BL | (0°-30°) | 114.6 | 2.2 | B1/500 | | |
| BM | (30°-60°) | 890.8 | 17.2 | B1/1000 | | |
| BH | (60°-80°) | 1424.2 | 27.4 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 167.1 | 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





REPORT NUMBER: P156979

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 |
| 2.5° | 119.6 | 117.8 | 118.7 | 117.8 | 117.8 | 116.9 | 105.0 | 101.4 | 101.4 | 102.3 | 100.5 |
| 5° | 88.6 | 89.5 | 88.6 | 91.3 | 93.2 | 89.5 | 89.5 | 91.3 | 92.2 | 107.8 | 109.6 |
| 7.5° | 137.0 | 137.9 | 137.0 | 136.1 | 126.0 | 116.0 | 114.2 | 111.4 | 91.3 | 89.5 | 87.7 |
| 10° | 142.5 | 142.5 | 144.3 | 140.7 | 139.7 | 139.7 | 138.8 | 137.9 | 132.4 | 129.7 | 110.5 |
| 12.5° | 190.0 | 191.8 | 190.9 | 189.1 | 188.2 | 165.3 | 161.7 | 144.3 | 137.9 | 157.1 | 173.5 |
| 15° | 198.2 | 197.3 | 199.1 | 195.5 | 193.6 | 193.6 | 185.4 | 192.7 | 206.4 | 190.9 | 179.0 |
| 17.5° | 245.7 | 245.7 | 245.7 | 243.9 | 237.5 | 219.2 | 221.0 | 224.7 | 223.8 | 217.4 | 224.7 |
| 20° | 274.9 | 274.9 | 273.1 | 255.7 | 243.9 | 254.8 | 270.4 | 262.1 | 251.2 | 254.8 | 261.2 |
| 22.5° | 302.3 | 303.2 | 301.4 | 295.9 | 295.0 | 304.1 | 290.4 | 282.2 | 300.5 | 274.9 | 287.7 |
| 25° | 356.2 | 357.1 | 354.4 | 328.8 | 325.2 | 325.2 | 323.3 | 327.9 | 316.0 | 331.5 | 353.5 |
| 27.5° | 385.4 | 369.0 | 366.3 | 358.9 | 374.5 | 368.1 | 365.3 | 345.2 | 386.3 | 365.3 | 380.0 |
| 30° | 429.3 | 429.3 | 425.6 | 421.1 | 418.3 | 399.1 | 391.8 | 404.6 | 406.4 | 411.0 | 449.4 |
| 32.5° | 495.0 | 496.9 | 486.8 | 462.2 | 445.7 | 442.1 | 447.5 | 445.7 | 450.3 | 453.0 | 485.0 |
| 35° | 548.9 | 549.8 | 531.6 | 515.1 | 503.3 | 491.4 | 488.6 | 482.2 | 494.1 | 495.0 | 519.7 |
| 37.5° | 606.5 | 611.9 | 594.6 | 586.4 | 567.2 | 548.9 | 527.9 | 525.2 | 538.0 | 533.4 | 572.7 |
| 40° | 692.3 | 695.1 | 679.5 | 661.3 | 621.1 | 600.1 | 576.3 | 573.6 | 574.5 | 595.5 | 614.7 |
| 42.5° | 745.3 | 746.2 | 732.5 | 710.6 | 686.8 | 662.2 | 629.3 | 617.4 | 622.9 | 641.2 | 658.5 |
| 45° | 804.7 | 803.7 | 791.9 | 774.5 | 749.9 | 717.9 | 678.6 | 668.6 | 674.1 | 696.9 | 712.4 |
| 47.5° | 865.9 | 864.0 | 855.8 | 835.7 | 805.6 | 770.9 | 731.6 | 727.9 | 727.9 | 758.1 | 770.9 |
| 50° | 925.2 | 926.1 | 917.9 | 898.7 | 862.2 | 828.4 | 797.4 | 782.7 | 787.3 | 818.4 | 833.0 |
| 52.5° | 991.9 | 993.7 | 981.9 | 961.8 | 922.5 | 896.9 | 865.9 | 843.9 | 843.9 | 886.9 | 899.7 |
| 55° | 1061.3 | 1062.2 | 1054.9 | 1029.3 | 999.2 | 969.1 | 932.5 | 906.0 | 907.0 | 954.5 | 965.4 |
| 57.5° | 1132.6 | 1130.7 | 1122.5 | 1103.3 | 1083.2 | 1034.8 | 995.6 | 971.8 | 978.2 | 1026.6 | 1034.8 |
| 60° | 1207.4 | 1206.5 | 1198.3 | 1180.0 | 1149.9 | 1090.5 | 1067.7 | 1053.1 | 1047.6 | 1107.9 | 1108.8 |
| 62.5° | 1293.3 | 1289.7 | 1283.3 | 1266.8 | 1225.7 | 1171.8 | 1147.2 | 1139.9 | 1128.9 | 1191.0 | 1193.7 |
| 65° | 1399.3 | 1392.9 | 1388.3 | 1370.0 | 1328.9 | 1265.9 | 1233.9 | 1242.2 | 1234.8 | 1311.6 | 1301.5 |
| 67.5° | 1562.7 | 1550.9 | 1536.3 | 1519.8 | 1474.1 | 1416.6 | 1372.8 | 1391.0 | 1386.5 | 1470.5 | 1466.8 |
| 70° | 1695.2 | 1687.9 | 1687.0 | 1685.1 | 1663.2 | 1626.7 | 1578.3 | 1593.8 | 1613.0 | 1718.9 | 1708.0 |
| 72° | 1607.5 | 1598.4 | 1606.6 | 1613.9 | 1612.1 | 1596.5 | 1570.0 | 1605.7 | 1664.1 | 1775.6 | 1740.8 |
| 72.5° | 1586.5 | 1577.4 | 1582.8 | 1589.2 | 1589.2 | 1574.6 | 1550.9 | 1584.7 | 1646.8 | 1755.5 | 1722.6 |
| 75° | 1488.8 | 1486.0 | 1490.6 | 1498.8 | 1507.9 | 1500.6 | 1497.0 | 1518.0 | 1582.8 | 1689.7 | 1648.6 |
| 77.5° | 1328.0 | 1331.7 | 1337.1 | 1349.0 | 1366.4 | 1374.6 | 1395.6 | 1428.5 | 1501.5 | 1596.5 | 1562.7 |
| 80° | 1013.8 | 1008.3 | 1022.0 | 1046.7 | 1065.0 | 1083.2 | 1111.5 | 1151.7 | 1228.5 | 1314.3 | 1262.3 |
| 82.5° | 338.9 | 379.0 | 401.0 | 448.5 | 510.6 | 553.5 | 614.7 | 695.1 | 789.1 | 860.4 | 795.5 |
| 85° | 29.2 | 34.7 | 48.4 | 66.7 | 85.9 | 114.2 | 172.6 | 216.5 | 285.9 | 349.8 | 295.9 |
| 87.5° | 7.3 | 11.9 | 21.0 | 29.2 | 30.1 | 31.1 | 34.7 | 37.4 | 41.1 | 42.0 | 52.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P156979

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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 |
| 2.5° | 98.6 | 94.1 | 85.9 | 77.6 | 76.7 | 75.8 | 74.9 | 74.0 |
| 5° | 110.5 | 116.9 | 101.4 | 99.6 | 95.9 | 78.5 | 75.8 | 74.0 |
| 7.5° | 88.6 | 89.5 | 104.1 | 104.1 | 94.1 | 91.3 | 75.8 | 74.0 |
| 10° | 98.6 | 95.9 | 117.8 | 137.9 | 143.4 | 133.3 | 111.4 | 109.6 |
| 12.5° | 168.1 | 146.1 | 126.0 | 127.9 | 143.4 | 138.8 | 124.2 | 108.7 |
| 15° | 178.1 | 171.7 | 174.4 | 173.5 | 171.7 | 183.6 | 165.3 | 161.7 |
| 17.5° | 219.2 | 212.8 | 211.0 | 188.2 | 178.1 | 179.0 | 183.6 | 171.7 |
| 20° | 235.6 | 236.6 | 285.0 | 285.9 | 267.6 | 264.9 | 264.0 | 261.2 |
| 22.5° | 318.8 | 316.9 | 306.9 | 303.2 | 285.0 | 337.9 | 345.2 | 345.2 |
| 25° | 334.3 | 360.8 | 398.2 | 397.3 | 387.3 | 371.7 | 374.5 | 357.1 |
| 27.5° | 416.5 | 416.5 | 415.6 | 424.7 | 438.4 | 430.2 | 424.7 | 416.5 |
| 30° | 433.8 | 462.2 | 469.5 | 455.8 | 462.2 | 471.3 | 481.3 | 490.5 |
| 32.5° | 484.1 | 479.5 | 506.0 | 517.9 | 527.9 | 535.2 | 511.5 | 520.6 |
| 35° | 524.3 | 540.7 | 545.3 | 545.3 | 552.6 | 557.1 | 541.6 | 541.6 |
| 37.5° | 569.9 | 577.2 | 573.6 | 579.1 | 581.8 | 591.9 | 590.0 | 585.5 |
| 40° | 608.3 | 615.6 | 613.8 | 617.4 | 616.5 | 633.9 | 639.3 | 620.2 |
| 42.5° | 656.7 | 661.3 | 658.5 | 660.4 | 672.2 | 680.4 | 697.8 | 685.9 |
| 45° | 705.1 | 709.7 | 706.9 | 709.7 | 729.8 | 733.4 | 757.2 | 755.3 |
| 47.5° | 760.8 | 761.7 | 761.7 | 770.9 | 788.2 | 791.0 | 817.4 | 816.5 |
| 50° | 820.2 | 824.8 | 816.5 | 828.4 | 847.6 | 859.5 | 881.4 | 893.3 |
| 52.5° | 886.9 | 890.5 | 869.5 | 898.7 | 914.3 | 932.5 | 943.5 | 962.7 |
| 55° | 947.1 | 952.6 | 930.7 | 959.9 | 974.5 | 991.9 | 1019.3 | 1036.7 |
| 57.5° | 1011.1 | 1007.4 | 1007.4 | 1014.7 | 1028.4 | 1052.2 | 1087.8 | 1119.8 |
| 60° | 1084.1 | 1071.4 | 1069.5 | 1069.5 | 1096.0 | 1137.1 | 1165.4 | 1198.3 |
| 62.5° | 1169.1 | 1148.1 | 1151.7 | 1138.9 | 1170.0 | 1220.2 | 1254.0 | 1295.1 |
| 65° | 1270.5 | 1245.8 | 1240.3 | 1233.9 | 1256.8 | 1312.5 | 1364.5 | 1395.6 |
| 67.5° | 1421.2 | 1384.6 | 1364.5 | 1358.2 | 1384.6 | 1437.6 | 1503.4 | 1536.3 |
| 70° | 1644.9 | 1581.0 | 1512.5 | 1497.0 | 1497.9 | 1550.0 | 1603.8 | 1634.0 |
| 72° | 1646.8 | 1566.4 | 1471.4 | 1439.4 | 1457.7 | 1492.4 | 1540.8 | 1559.1 |
| 72.5° | 1622.1 | 1545.4 | 1445.8 | 1422.1 | 1449.5 | 1476.0 | 1528.9 | 1542.6 |
| 75° | 1566.4 | 1489.7 | 1390.1 | 1374.6 | 1385.6 | 1402.9 | 1453.1 | 1457.7 |
| 77.5° | 1474.1 | 1388.3 | 1267.7 | 1237.6 | 1211.1 | 1247.6 | 1285.1 | 1273.2 |
| 80° | 1182.8 | 1085.1 | 970.9 | 948.1 | 902.4 | 927.1 | 949.0 | 931.6 |
| 82.5° | 695.1 | 579.1 | 478.6 | 422.0 | 349.8 | 332.5 | 339.8 | 285.0 |
| 85° | 221.0 | 148.0 | 104.1 | 70.3 | 62.1 | 48.4 | 40.2 | 34.7 |
| 87.5° | 48.4 | 40.2 | 36.5 | 33.8 | 33.8 | 28.3 | 20.1 | 16.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)