

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: P147974

Luminaire Tested: **TMU-F02-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P147974  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TMU-F02-LED-E-U-5WQ-7030  
Description: TALON MEDIUM LED AREA LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4801.1 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

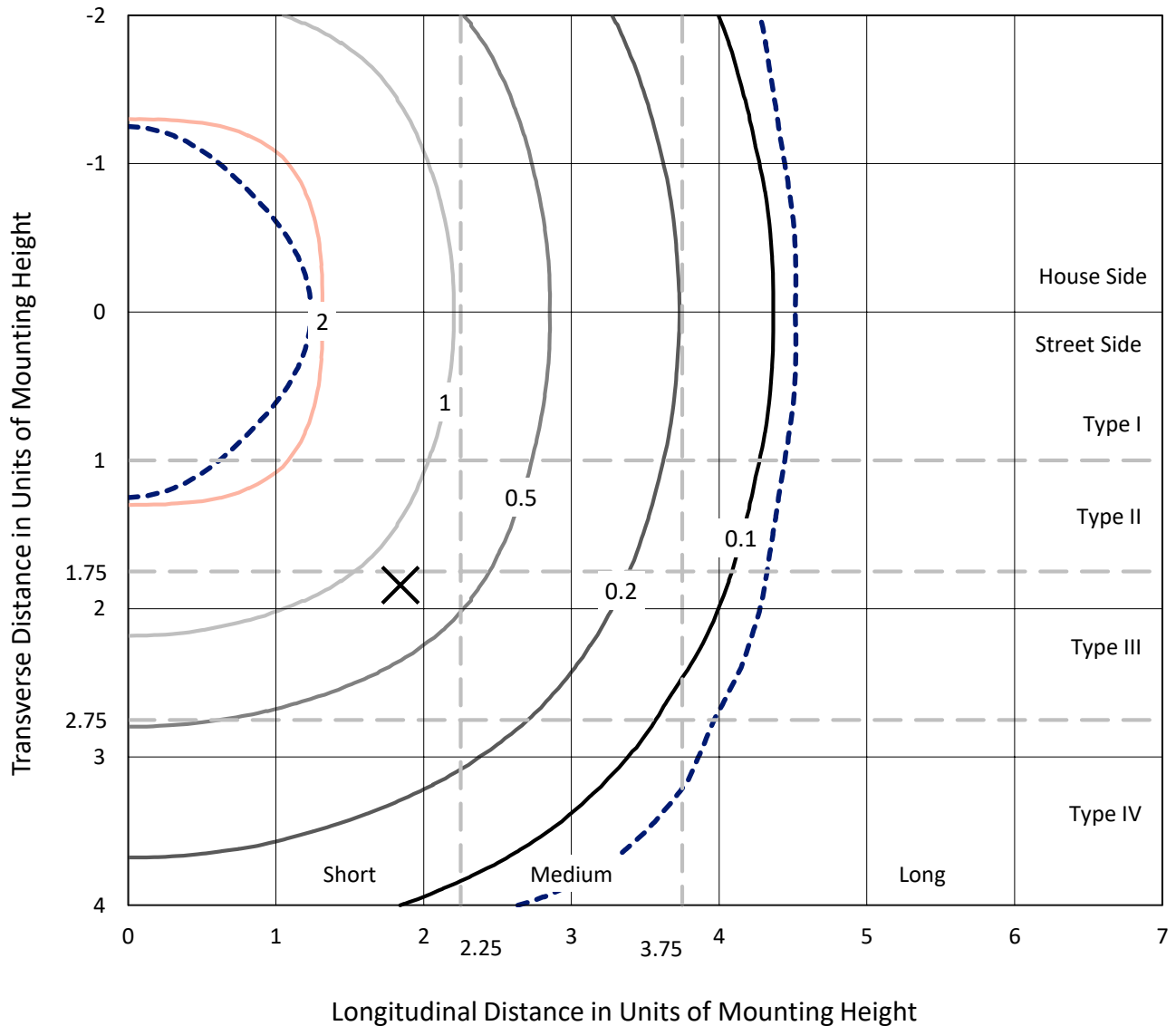
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

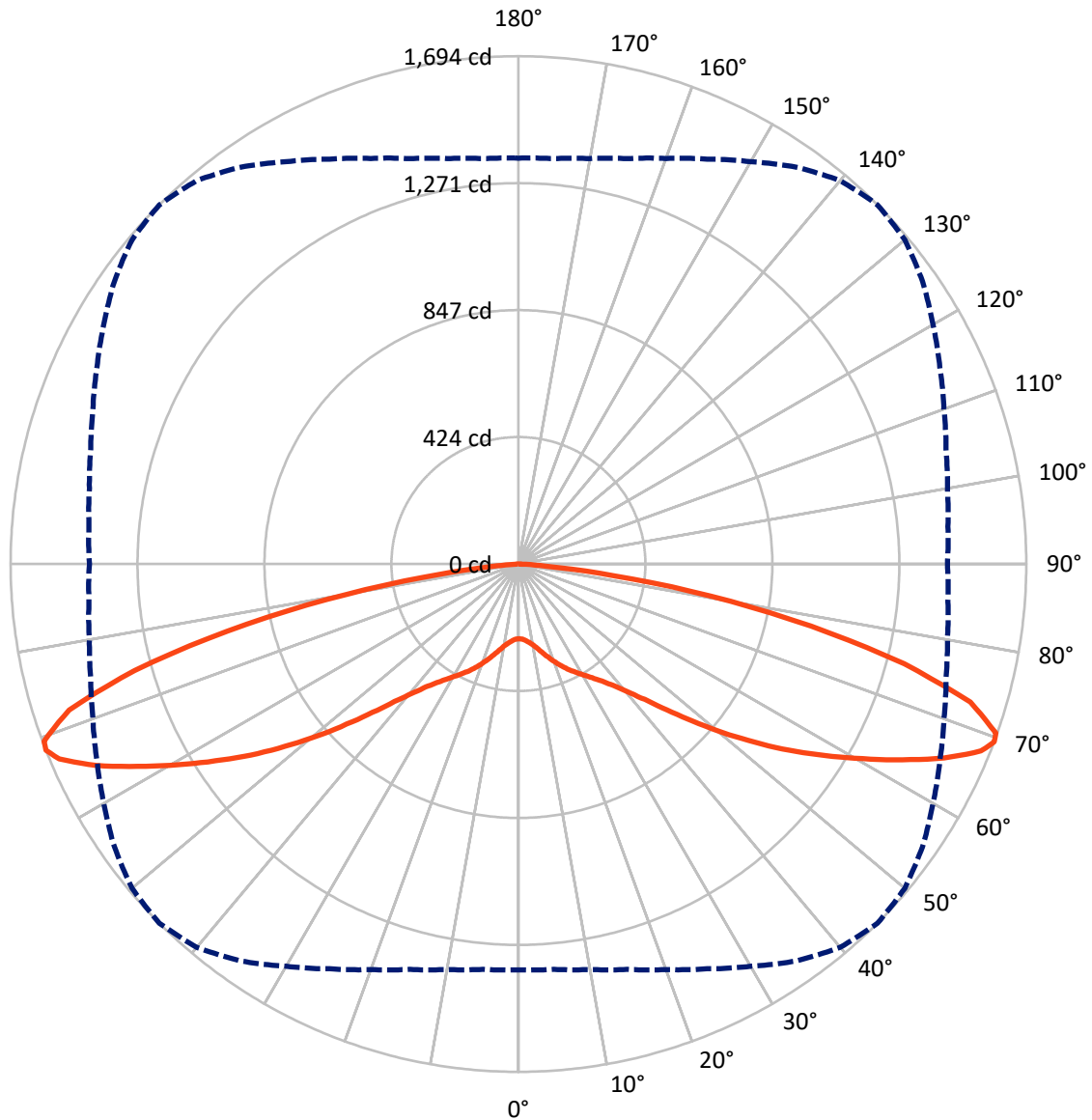
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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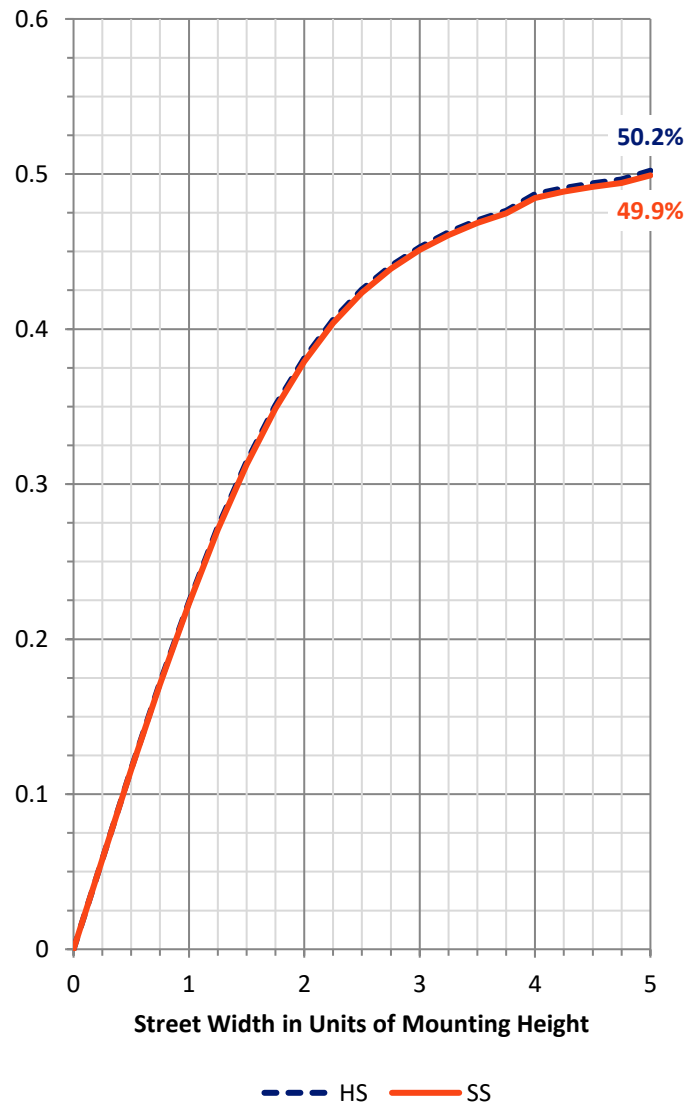
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2400.6   | 0.0    | 2400.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2400.6   | 0.0    | 2400.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4801.1   | 0.0    | 4801.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 25.0   | 0.5       |
| 10°-20°   | 88.4   | 1.8       |
| 20°-30°   | 179.0  | 3.7       |
| 30°-40°   | 300.1  | 6.3       |
| 40°-50°   | 529.4  | 11.0      |
| 50°-60°   | 933.6  | 19.4      |
| 60°-70°   | 1425.3 | 29.7      |
| 70°-80°   | 1191.0 | 24.8      |
| 80°-90°   | 129.4  | 2.7       |
| 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°    | 4801.1 | 100.0     |
| 0°-180°   | 4801.1 | 100.0     |



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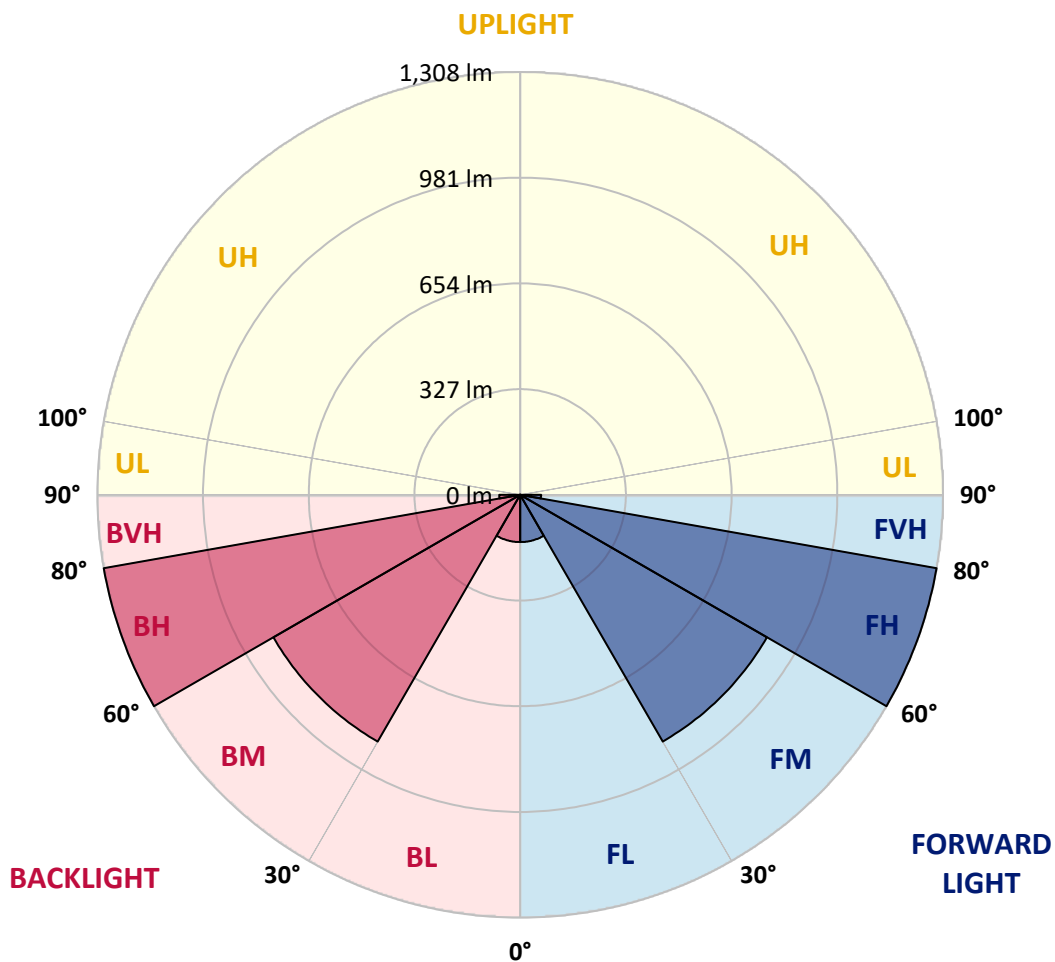
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 146.2  | 3.0       |                         |      |         |
| FM   | (30°-60°)   | 881.5  | 18.4      |                         |      |         |
| FH   | (60°-80°)   | 1308.1 | 27.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 64.7   | 1.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 146.2  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 881.5  | 18.4      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 1308.1 | 27.2      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 64.7   | 1.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 249.3  | 249.3  | 249.3  | 249.3  | 249.3  | 249.3  | 249.3  | 249.3  | 249.3  | 249.3  | 249.3  |
| 2.5°  | 251.3  | 251.8  | 251.3  | 251.3  | 251.3  | 251.3  | 251.3  | 250.8  | 250.8  | 250.8  | 251.3  |
| 5°    | 256.4  | 256.9  | 256.4  | 256.9  | 256.9  | 256.9  | 256.9  | 256.4  | 256.4  | 256.4  | 256.4  |
| 7.5°  | 264.4  | 264.4  | 264.4  | 264.9  | 264.4  | 264.4  | 264.9  | 264.4  | 264.4  | 264.4  | 264.4  |
| 10°   | 276.0  | 275.5  | 275.5  | 275.5  | 275.5  | 275.5  | 276.0  | 276.0  | 276.0  | 275.5  | 275.5  |
| 12.5° | 290.0  | 289.5  | 290.0  | 290.0  | 290.5  | 290.5  | 290.5  | 290.5  | 290.5  | 290.5  | 290.0  |
| 15°   | 307.1  | 307.1  | 307.1  | 307.6  | 308.6  | 308.6  | 308.1  | 308.6  | 308.6  | 308.6  | 308.6  |
| 17.5° | 326.2  | 327.2  | 326.2  | 326.7  | 327.2  | 326.7  | 327.7  | 328.2  | 328.7  | 328.2  | 326.7  |
| 20°   | 345.8  | 346.3  | 346.3  | 346.3  | 346.3  | 347.3  | 347.8  | 347.8  | 349.4  | 348.8  | 348.3  |
| 22.5° | 364.4  | 365.4  | 365.4  | 365.9  | 365.9  | 367.4  | 367.4  | 367.4  | 368.5  | 369.5  | 368.5  |
| 25°   | 384.0  | 383.5  | 383.5  | 384.5  | 385.0  | 387.0  | 387.0  | 388.1  | 389.6  | 390.1  | 389.1  |
| 27.5° | 401.6  | 401.1  | 401.1  | 402.6  | 403.1  | 405.6  | 405.6  | 407.7  | 408.7  | 409.2  | 408.2  |
| 30°   | 420.2  | 420.2  | 419.7  | 421.2  | 422.7  | 424.7  | 425.8  | 427.8  | 429.3  | 429.8  | 428.8  |
| 32.5° | 442.3  | 441.3  | 441.8  | 442.8  | 443.9  | 445.9  | 447.4  | 449.9  | 451.9  | 452.4  | 451.4  |
| 35°   | 467.5  | 466.0  | 466.5  | 467.5  | 469.0  | 472.0  | 474.5  | 476.0  | 479.0  | 480.0  | 478.0  |
| 37.5° | 495.1  | 495.6  | 495.1  | 497.6  | 500.1  | 503.7  | 506.7  | 508.7  | 511.7  | 513.2  | 511.7  |
| 40°   | 534.3  | 532.8  | 534.3  | 536.8  | 540.9  | 545.4  | 551.4  | 552.9  | 555.9  | 559.0  | 555.4  |
| 42.5° | 585.1  | 584.1  | 587.6  | 589.6  | 594.1  | 599.2  | 606.7  | 610.7  | 615.3  | 617.3  | 614.3  |
| 45°   | 651.5  | 651.5  | 655.5  | 656.0  | 663.0  | 669.5  | 680.1  | 685.1  | 693.7  | 693.7  | 693.7  |
| 47.5° | 724.8  | 727.9  | 730.4  | 735.4  | 740.4  | 752.5  | 763.0  | 774.1  | 782.1  | 783.1  | 781.6  |
| 50°   | 800.7  | 803.8  | 811.3  | 818.3  | 829.4  | 844.5  | 856.0  | 870.6  | 877.6  | 883.7  | 881.7  |
| 52.5° | 884.7  | 885.2  | 894.2  | 903.3  | 919.4  | 936.0  | 954.6  | 969.6  | 982.2  | 987.7  | 983.2  |
| 55°   | 976.7  | 977.7  | 985.7  | 995.3  | 1013.4 | 1032.5 | 1055.6 | 1071.2 | 1087.3 | 1097.3 | 1089.8 |
| 57.5° | 1076.2 | 1076.7 | 1084.7 | 1096.3 | 1117.9 | 1137.0 | 1159.1 | 1181.3 | 1196.3 | 1205.4 | 1200.4 |
| 60°   | 1186.3 | 1188.8 | 1194.8 | 1209.4 | 1230.0 | 1250.1 | 1272.2 | 1291.8 | 1309.4 | 1319.0 | 1314.0 |
| 62.5° | 1303.9 | 1306.4 | 1315.0 | 1326.5 | 1344.6 | 1366.7 | 1387.9 | 1413.0 | 1427.6 | 1438.1 | 1430.6 |
| 65°   | 1382.8 | 1387.3 | 1400.9 | 1416.5 | 1443.1 | 1471.8 | 1496.4 | 1530.6 | 1548.2 | 1560.8 | 1553.7 |
| 67.5° | 1387.9 | 1390.4 | 1407.0 | 1430.6 | 1466.3 | 1509.5 | 1559.8 | 1613.0 | 1647.7 | 1664.3 | 1652.3 |
| 69°   | 1353.7 | 1357.2 | 1373.3 | 1399.9 | 1439.6 | 1489.9 | 1549.7 | 1616.1 | 1669.3 | 1694.0 | 1682.4 |
| 70°   | 1315.0 | 1322.5 | 1340.1 | 1369.3 | 1408.0 | 1460.7 | 1522.6 | 1593.4 | 1655.8 | 1689.4 | 1680.9 |
| 72.5° | 1233.5 | 1235.5 | 1247.1 | 1270.2 | 1299.9 | 1343.6 | 1401.9 | 1468.8 | 1528.1 | 1576.3 | 1583.4 |
| 75°   | 1094.8 | 1101.3 | 1109.9 | 1125.5 | 1140.5 | 1172.2 | 1211.4 | 1257.2 | 1291.8 | 1329.0 | 1330.5 |
| 77.5° | 827.4  | 847.0  | 853.5  | 857.0  | 863.6  | 888.7  | 922.9  | 962.6  | 991.3  | 997.3  | 996.3  |
| 80°   | 371.5  | 397.6  | 403.6  | 432.3  | 449.9  | 491.6  | 543.9  | 604.7  | 645.4  | 649.9  | 638.9  |
| 82.5° | 72.9   | 77.9   | 91.0   | 113.6  | 154.8  | 179.5  | 213.6  | 256.4  | 295.6  | 318.2  | 304.6  |
| 85°   | 24.1   | 25.6   | 29.7   | 32.7   | 37.7   | 42.7   | 51.8   | 64.3   | 79.9   | 88.5   | 78.9   |
| 87.5° | 9.6    | 9.6    | 11.1   | 12.1   | 13.1   | 13.1   | 13.1   | 12.1   | 11.6   | 9.6    | 8.5    |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 249.3  | 249.3  | 249.3  | 249.3  | 249.3  | 249.3  | 249.3  | 249.3  |
| 2.5°  | 250.8  | 250.8  | 250.8  | 250.8  | 250.8  | 250.8  | 250.8  | 250.8  |
| 5°    | 256.4  | 255.9  | 255.9  | 255.4  | 255.4  | 255.4  | 255.4  | 255.4  |
| 7.5°  | 263.9  | 263.4  | 262.9  | 263.4  | 262.9  | 262.9  | 262.9  | 262.9  |
| 10°   | 275.5  | 274.5  | 274.0  | 273.4  | 273.4  | 273.4  | 272.9  | 272.9  |
| 12.5° | 289.0  | 289.0  | 288.5  | 288.0  | 287.0  | 287.5  | 287.0  | 286.0  |
| 15°   | 307.6  | 306.6  | 306.1  | 305.6  | 304.6  | 304.6  | 304.6  | 304.1  |
| 17.5° | 326.2  | 325.2  | 325.2  | 323.7  | 323.2  | 323.2  | 323.2  | 323.7  |
| 20°   | 346.8  | 345.3  | 344.3  | 343.3  | 342.3  | 342.8  | 341.8  | 342.8  |
| 22.5° | 367.4  | 365.4  | 364.4  | 362.9  | 361.4  | 361.4  | 360.9  | 359.9  |
| 25°   | 387.6  | 385.0  | 384.0  | 382.5  | 380.5  | 380.5  | 379.5  | 378.5  |
| 27.5° | 406.7  | 404.1  | 403.1  | 400.1  | 398.1  | 397.6  | 396.6  | 396.1  |
| 30°   | 427.8  | 424.7  | 423.2  | 420.2  | 417.2  | 416.7  | 415.2  | 415.2  |
| 32.5° | 449.9  | 446.9  | 445.9  | 441.3  | 438.8  | 438.8  | 437.8  | 436.8  |
| 35°   | 477.5  | 473.0  | 472.0  | 467.5  | 464.0  | 464.0  | 463.0  | 463.5  |
| 37.5° | 510.2  | 506.7  | 503.2  | 499.6  | 495.6  | 495.1  | 494.1  | 493.1  |
| 40°   | 553.9  | 549.9  | 545.9  | 540.9  | 537.3  | 536.3  | 534.8  | 534.3  |
| 42.5° | 612.2  | 608.2  | 600.2  | 596.2  | 592.6  | 589.6  | 589.1  | 588.6  |
| 45°   | 686.6  | 681.6  | 676.1  | 668.5  | 664.0  | 657.5  | 656.5  | 654.0  |
| 47.5° | 776.1  | 766.6  | 757.0  | 750.5  | 743.4  | 735.9  | 734.4  | 730.4  |
| 50°   | 871.1  | 863.6  | 847.5  | 836.9  | 825.9  | 818.3  | 813.3  | 811.8  |
| 52.5° | 973.2  | 959.1  | 943.0  | 928.9  | 912.8  | 902.8  | 893.7  | 891.2  |
| 55°   | 1079.7 | 1059.6 | 1039.5 | 1022.9 | 1006.8 | 994.8  | 986.2  | 982.2  |
| 57.5° | 1186.3 | 1164.2 | 1142.0 | 1124.0 | 1110.4 | 1094.8 | 1086.3 | 1084.2 |
| 60°   | 1297.4 | 1276.3 | 1253.6 | 1235.5 | 1219.0 | 1205.4 | 1200.4 | 1190.8 |
| 62.5° | 1415.0 | 1392.9 | 1371.8 | 1354.2 | 1333.1 | 1323.5 | 1315.0 | 1309.4 |
| 65°   | 1530.6 | 1505.0 | 1478.3 | 1459.7 | 1438.6 | 1425.0 | 1414.5 | 1407.0 |
| 67.5° | 1620.1 | 1581.4 | 1545.7 | 1514.5 | 1485.9 | 1464.8 | 1451.2 | 1444.1 |
| 69°   | 1645.2 | 1597.0 | 1551.2 | 1510.5 | 1476.8 | 1453.2 | 1438.1 | 1431.1 |
| 70°   | 1642.2 | 1588.9 | 1538.6 | 1493.9 | 1457.2 | 1432.1 | 1417.5 | 1404.4 |
| 72.5° | 1549.2 | 1500.4 | 1444.7 | 1395.9 | 1362.7 | 1338.6 | 1324.0 | 1317.0 |
| 75°   | 1322.0 | 1289.3 | 1249.1 | 1211.4 | 1187.3 | 1173.2 | 1155.1 | 1155.6 |
| 77.5° | 962.6  | 963.6  | 936.5  | 897.8  | 870.6  | 865.6  | 857.5  | 849.5  |
| 80°   | 597.2  | 549.4  | 518.2  | 476.5  | 445.9  | 419.2  | 407.7  | 382.5  |
| 82.5° | 275.5  | 215.1  | 166.9  | 126.2  | 97.0   | 75.9   | 66.4   | 54.3   |
| 85°   | 61.3   | 46.7   | 38.7   | 31.2   | 26.6   | 24.6   | 20.1   | 18.6   |
| 87.5° | 8.5    | 7.5    | 7.0    | 6.5    | 5.5    | 4.0    | 3.0    | 2.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)