

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: P266450

Luminaire Tested: **UTLD-AF24-70-D-U-T3-FP-7027**

Issue Date: 5/28/2020

### Test Information

Test Method: LM-79-08  
Report Number: P266450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-70-D-U-T3-FP-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5390.3 lumens  
Efficiency: N/A  
Efficacy: 72.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G3

Input Watts (W): 74  
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



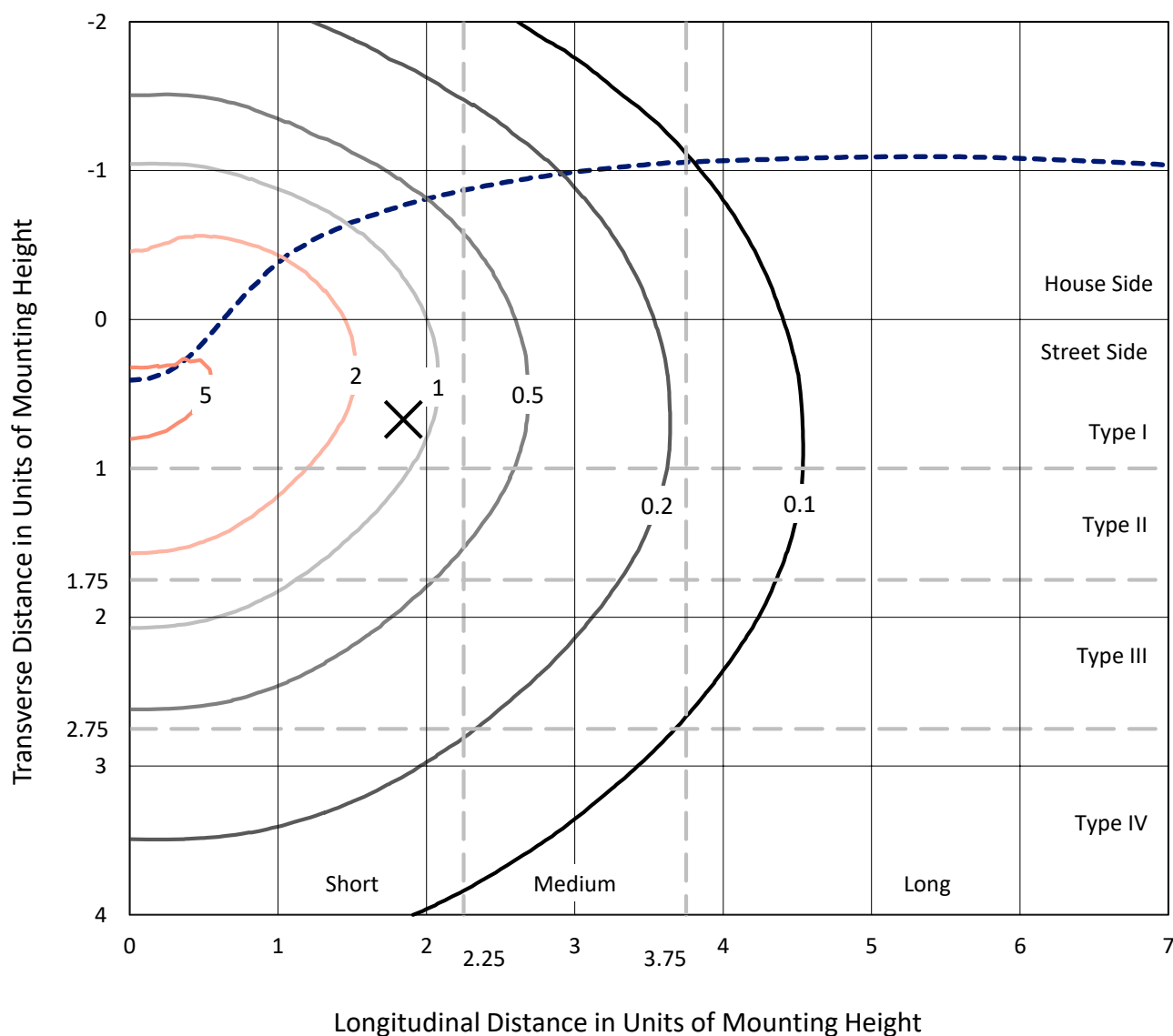
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

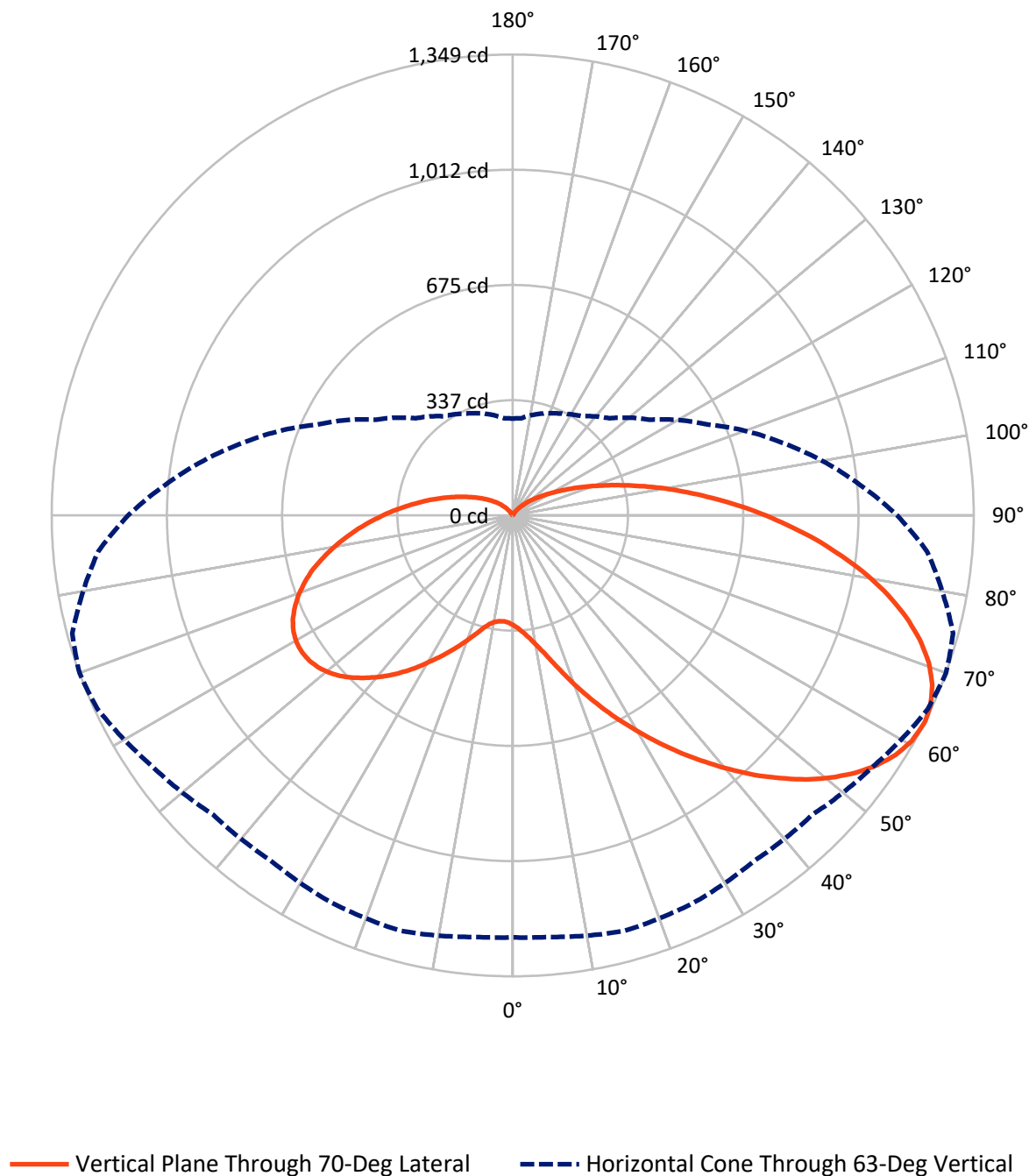


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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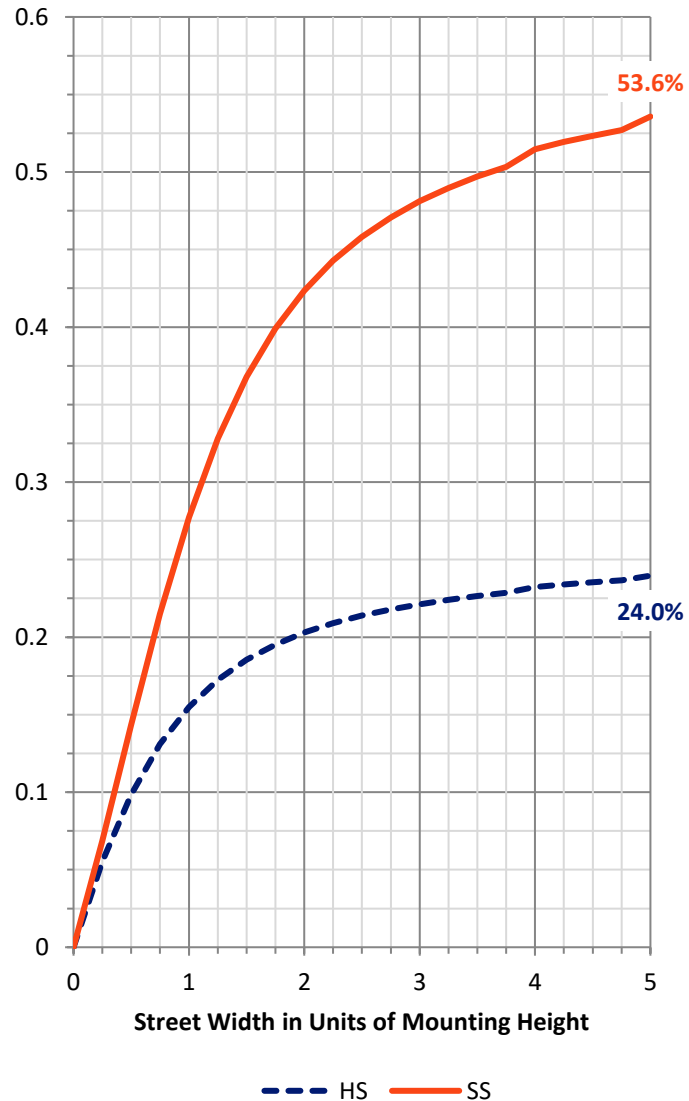
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1377.8   | 311.9  | 1689.7 |
|                    | % Fixture | 25.6     | 5.8    | 31.3   |
| <b>Street Side</b> | Lumens    | 3114.6   | 586.0  | 3700.6 |
|                    | % Fixture | 57.8     | 10.9   | 68.7   |
| <b>Total</b>       | Lumens    | 4492.5   | 897.9  | 5390.3 |
|                    | % Fixture | 83.3     | 16.7   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 32.0   | 0.6       |
| 10°-20°   | 112.5  | 2.1       |
| 20°-30°   | 241.6  | 4.5       |
| 30°-40°   | 421.0  | 7.8       |
| 40°-50°   | 625.5  | 11.6      |
| 50°-60°   | 798.7  | 14.8      |
| 60°-70°   | 866.0  | 16.1      |
| 70°-80°   | 788.6  | 14.6      |
| 80°-90°   | 606.6  | 11.3      |
| 90°-100°  | 406.9  | 7.5       |
| 100°-110° | 246.6  | 4.6       |
| 110°-120° | 137.7  | 2.6       |
| 120°-130° | 69.9   | 1.3       |
| 130°-140° | 28.9   | 0.5       |
| 140°-150° | 7.4    | 0.1       |
| 150°-160° | 0.5    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 4492.5 | 83.3      |
| 0°-180°   | 5390.3 | 100.0     |

**Coefficient of Utilization**



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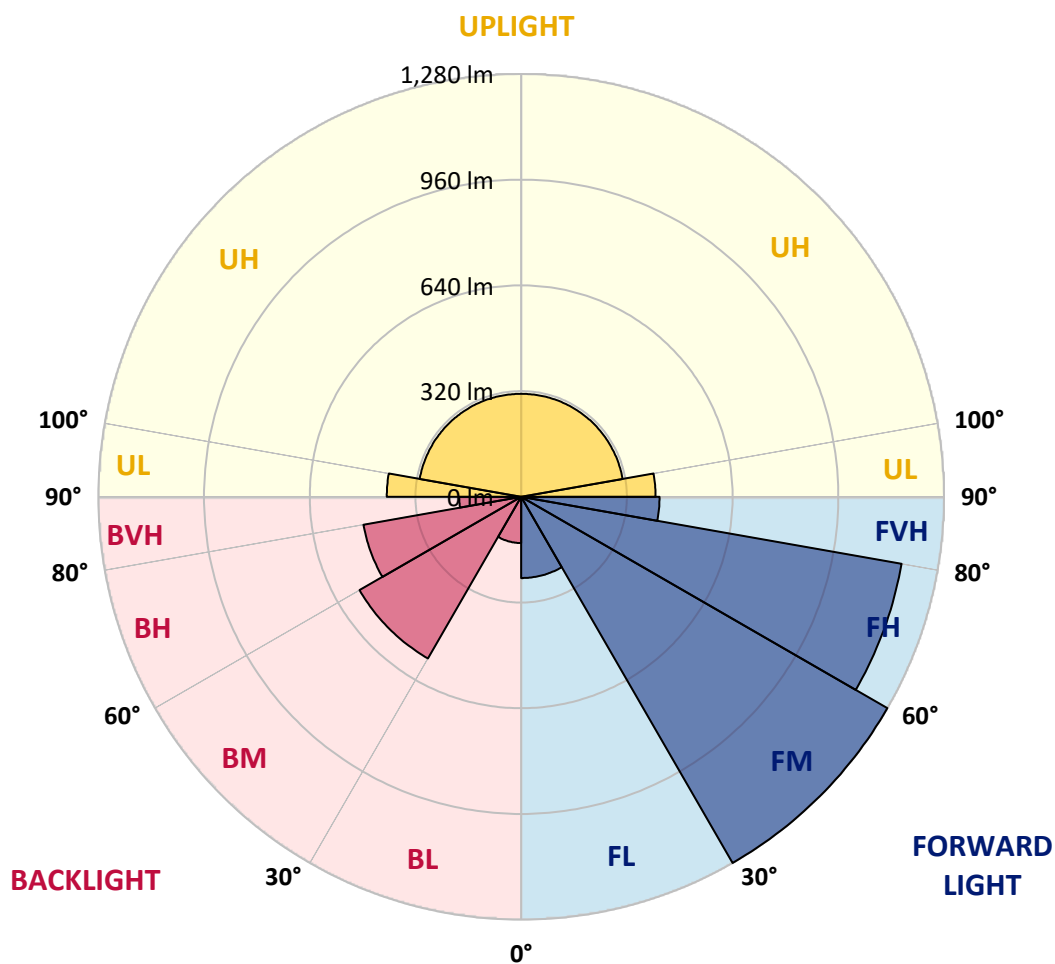
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 246.0  | 4.6       |                         |        |         |
| FM   | (30°-60°)   | 1280.2 | 23.8      |                         |        |         |
| FH   | (60°-80°)   | 1169.5 | 21.7      |                         |        | G1/1800 |
| FVH  | (80°-90°)   | 418.8  | 7.8       |                         |        | G3/500  |
| BL   | (0°-30°)    | 140.0  | 2.6       | B1/500                  |        |         |
| BM   | (30°-60°)   | 565.0  | 10.5      | B1/1000                 |        |         |
| BH   | (60°-80°)   | 485.0  | 9.0       | B1/500                  |        | G1/500  |
| BVH  | (80°-90°)   | 187.8  | 3.5       |                         |        | G2/225  |
| UL   | (90°-100°)  | 406.9  | 7.5       |                         | U3/500 |         |
| UH   | (100°-180°) | 311.9  | 5.8       |                         | U3/500 |         |

**BUG Rating: B1-U3-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 70°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 321.7  | 321.7  | 321.7  | 321.7  | 321.7  | 321.7  | 321.7  | 321.7  | 321.7  | 321.7  | 321.7  |
| 2.5°   | 347.9  | 347.9  | 347.1  | 346.4  | 344.3  | 341.4  | 337.3  | 334.3  | 331.6  | 329.5  | 325.1  |
| 5°     | 377.6  | 379.1  | 376.2  | 374.9  | 369.8  | 364.2  | 357.7  | 350.0  | 346.4  | 341.4  | 333.0  |
| 7.5°   | 409.4  | 411.0  | 408.1  | 404.5  | 398.2  | 389.7  | 379.8  | 369.8  | 363.5  | 357.0  | 344.3  |
| 10°    | 444.9  | 445.6  | 442.1  | 437.8  | 430.1  | 419.4  | 408.8  | 393.9  | 386.8  | 378.4  | 361.4  |
| 12.5°  | 484.6  | 483.2  | 480.4  | 473.2  | 464.1  | 452.7  | 438.6  | 423.7  | 413.8  | 403.9  | 382.6  |
| 15°    | 530.0  | 529.2  | 524.3  | 515.7  | 504.5  | 491.7  | 474.8  | 458.5  | 448.4  | 437.8  | 412.3  |
| 17.5°  | 577.4  | 576.1  | 571.1  | 561.1  | 549.1  | 532.8  | 520.1  | 501.0  | 488.9  | 477.4  | 448.4  |
| 20°    | 625.0  | 624.2  | 620.6  | 609.3  | 595.8  | 583.1  | 566.1  | 546.3  | 534.2  | 518.6  | 485.4  |
| 22.5°  | 679.5  | 677.3  | 671.7  | 661.7  | 650.5  | 637.6  | 619.9  | 595.1  | 581.7  | 566.8  | 527.1  |
| 25°    | 734.0  | 733.2  | 726.2  | 715.6  | 706.3  | 692.2  | 675.2  | 646.2  | 632.6  | 612.1  | 569.6  |
| 27.5°  | 790.7  | 789.3  | 782.2  | 770.8  | 763.7  | 750.4  | 729.1  | 700.7  | 684.4  | 664.6  | 617.1  |
| 30°    | 849.4  | 848.8  | 840.3  | 829.0  | 821.2  | 808.5  | 786.5  | 756.0  | 739.7  | 717.7  | 664.6  |
| 32.5°  | 908.2  | 908.2  | 899.8  | 890.0  | 880.7  | 864.3  | 843.9  | 814.9  | 797.1  | 773.7  | 714.2  |
| 35°    | 969.9  | 966.3  | 960.0  | 950.9  | 935.9  | 919.7  | 901.2  | 874.9  | 856.5  | 831.1  | 768.1  |
| 37.5°  | 1028.0 | 1028.0 | 1017.4 | 1009.7 | 993.3  | 974.9  | 958.0  | 935.9  | 915.5  | 890.6  | 820.4  |
| 40°    | 1085.4 | 1086.1 | 1076.2 | 1066.3 | 1045.1 | 1028.0 | 1013.2 | 995.4  | 977.0  | 951.6  | 877.9  |
| 42.5°  | 1140.7 | 1139.3 | 1130.1 | 1118.7 | 1095.4 | 1076.2 | 1066.9 | 1052.2 | 1038.7 | 1011.8 | 933.1  |
| 45°    | 1191.7 | 1188.2 | 1181.1 | 1167.5 | 1140.7 | 1121.5 | 1118.0 | 1110.9 | 1096.8 | 1072.7 | 989.0  |
| 47.5°  | 1231.3 | 1229.2 | 1226.5 | 1208.7 | 1181.1 | 1162.6 | 1162.6 | 1165.6 | 1155.0 | 1130.1 | 1041.6 |
| 50°    | 1263.9 | 1263.2 | 1261.8 | 1241.9 | 1212.3 | 1198.1 | 1203.8 | 1213.7 | 1206.7 | 1184.7 | 1088.2 |
| 52.5°  | 1286.0 | 1285.3 | 1287.4 | 1266.8 | 1237.8 | 1225.0 | 1238.5 | 1258.3 | 1252.6 | 1232.8 | 1132.9 |
| 55°    | 1294.5 | 1294.5 | 1300.8 | 1281.7 | 1252.6 | 1242.7 | 1264.6 | 1292.3 | 1291.7 | 1273.8 | 1166.9 |
| 57.5°  | 1291.0 | 1291.7 | 1302.9 | 1285.3 | 1258.3 | 1252.6 | 1281.7 | 1319.3 | 1322.0 | 1304.3 | 1195.3 |
| 60°    | 1274.5 | 1275.4 | 1291.0 | 1277.4 | 1254.0 | 1252.6 | 1289.4 | 1335.5 | 1341.2 | 1325.5 | 1211.5 |
| 62.5°  | 1243.4 | 1246.3 | 1265.4 | 1256.9 | 1237.8 | 1242.7 | 1286.6 | 1340.5 | 1348.3 | 1333.4 | 1217.9 |
| 63°    | 1234.9 | 1238.5 | 1259.1 | 1251.2 | 1233.6 | 1239.2 | 1284.5 | 1340.5 | 1349.0 | 1334.2 | 1217.9 |
| 65°    | 1200.2 | 1204.4 | 1227.9 | 1224.3 | 1211.5 | 1222.1 | 1272.4 | 1332.6 | 1343.3 | 1329.9 | 1211.5 |
| 67.5°  | 1144.3 | 1152.7 | 1179.7 | 1182.4 | 1176.2 | 1192.4 | 1247.7 | 1312.9 | 1324.2 | 1311.4 | 1192.4 |
| 70°    | 1076.9 | 1086.9 | 1121.5 | 1130.1 | 1128.6 | 1152.7 | 1211.5 | 1279.5 | 1291.7 | 1278.8 | 1159.8 |
| 72.5°  | 1004.7 | 1018.0 | 1049.9 | 1068.4 | 1077.6 | 1103.8 | 1166.9 | 1234.2 | 1246.3 | 1232.8 | 1116.7 |
| 75°    | 926.1  | 940.2  | 980.0  | 1002.6 | 1016.7 | 1049.3 | 1111.7 | 1178.9 | 1189.5 | 1178.9 | 1062.1 |
| 77.5°  | 847.5  | 861.6  | 901.9  | 931.0  | 952.9  | 991.9  | 1053.5 | 1115.2 | 1123.1 | 1111.7 | 998.2  |
| 80°    | 766.7  | 783.0  | 821.9  | 855.8  | 885.5  | 924.5  | 984.2  | 1040.1 | 1049.3 | 1034.4 | 929.6  |
| 82.5°  | 686.6  | 700.7  | 744.7  | 784.3  | 816.2  | 855.1  | 911.9  | 964.3  | 968.6  | 953.6  | 853.7  |
| 85°    | 614.4  | 626.3  | 669.5  | 712.0  | 749.5  | 787.9  | 840.3  | 882.0  | 888.5  | 869.3  | 778.7  |
| 87.5°  | 546.3  | 555.4  | 600.7  | 642.6  | 680.8  | 723.3  | 770.1  | 803.4  | 803.4  | 788.5  | 700.0  |
| 90°    | 483.2  | 489.5  | 530.7  | 576.7  | 617.9  | 655.4  | 699.3  | 727.6  | 724.2  | 705.7  | 626.3  |
| 92.5°  | 422.3  | 430.1  | 470.4  | 514.4  | 556.2  | 595.1  | 630.6  | 649.7  | 644.8  | 625.6  | 555.4  |
| 95°    | 372.0  | 375.5  | 415.1  | 460.6  | 498.7  | 534.2  | 565.5  | 578.9  | 571.1  | 551.9  | 485.4  |
| 97.5°  | 325.9  | 328.7  | 363.5  | 406.8  | 447.7  | 480.4  | 501.7  | 510.1  | 502.3  | 483.2  | 428.0  |
| 100°   | 288.4  | 289.1  | 320.2  | 362.0  | 400.4  | 428.6  | 447.7  | 447.7  | 440.7  | 421.6  | 371.3  |
| 102.5° | 251.5  | 253.0  | 278.5  | 320.2  | 356.4  | 381.2  | 396.1  | 394.6  | 381.9  | 362.7  | 322.4  |
| 105°   | 221.7  | 223.1  | 243.0  | 283.3  | 316.1  | 338.8  | 350.7  | 342.3  | 330.1  | 313.1  | 279.2  |
| 107.5° | 195.6  | 196.3  | 211.8  | 248.0  | 279.2  | 300.5  | 306.9  | 297.6  | 284.1  | 267.9  | 243.7  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 70°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 175.0 | 174.4 | 186.4 | 217.5 | 247.3 | 265.0 | 268.6 | 257.2 | 243.7 | 230.2 | 210.5 |
| 112.5° | 155.1 | 155.1 | 163.0 | 189.2 | 216.9 | 233.7 | 235.3 | 218.9 | 207.6 | 195.6 | 182.7 |
| 115°   | 138.9 | 138.2 | 143.8 | 164.4 | 189.9 | 204.1 | 202.7 | 187.7 | 177.1 | 167.3 | 158.7 |
| 117.5° | 124.7 | 123.2 | 127.5 | 141.8 | 165.1 | 178.6 | 175.0 | 158.0 | 150.1 | 143.1 | 138.2 |
| 120°   | 112.0 | 111.2 | 113.4 | 123.2 | 141.8 | 152.4 | 148.8 | 133.8 | 126.8 | 123.2 | 120.5 |
| 122.5° | 100.6 | 100.6 | 99.9  | 106.3 | 120.5 | 128.9 | 124.0 | 112.0 | 107.6 | 105.6 | 105.6 |
| 125°   | 90.6  | 90.6  | 89.3  | 91.4  | 100.6 | 107.6 | 103.5 | 93.6  | 90.6  | 90.6  | 91.4  |
| 127.5° | 80.8  | 80.8  | 79.3  | 78.6  | 83.0  | 87.9  | 83.0  | 77.3  | 76.5  | 77.3  | 78.6  |
| 130°   | 71.5  | 70.8  | 69.3  | 66.7  | 67.4  | 69.3  | 65.8  | 63.1  | 63.8  | 65.8  | 67.4  |
| 132.5° | 63.1  | 62.3  | 60.2  | 56.0  | 53.1  | 53.1  | 50.3  | 50.3  | 52.5  | 54.5  | 57.4  |
| 135°   | 54.5  | 53.9  | 51.7  | 46.7  | 41.9  | 38.9  | 36.8  | 39.6  | 42.5  | 44.6  | 47.5  |
| 137.5° | 46.1  | 45.4  | 42.5  | 37.5  | 31.3  | 26.9  | 26.2  | 30.5  | 33.2  | 36.1  | 38.3  |
| 140°   | 37.5  | 36.8  | 34.0  | 29.0  | 22.0  | 17.0  | 17.0  | 22.6  | 25.5  | 27.7  | 30.5  |
| 142.5° | 29.7  | 29.0  | 26.9  | 21.3  | 14.2  | 10.6  | 11.3  | 16.3  | 18.4  | 20.5  | 22.6  |
| 145°   | 22.0  | 22.0  | 19.9  | 14.9  | 8.5   | 5.0   | 6.4   | 10.6  | 12.8  | 14.2  | 16.3  |
| 147.5° | 14.9  | 14.9  | 12.8  | 9.3   | 5.0   | 2.2   | 2.9   | 6.4   | 7.7   | 9.3   | 10.6  |
| 150°   | 9.3   | 9.3   | 7.7   | 5.0   | 2.2   | 0.0   | 1.3   | 2.9   | 4.2   | 5.0   | 6.4   |
| 152.5° | 5.0   | 5.0   | 3.6   | 2.2   | 0.7   | 0.0   | 0.0   | 1.3   | 1.3   | 2.2   | 2.9   |
| 155°   | 2.2   | 1.3   | 1.3   | 0.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   |
| 157.5° | 0.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 160°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 162.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 165°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 167.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 170°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 172.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 175°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 177.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 180°   | 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°     | 321.7  | 321.7  | 321.7 | 321.7 | 321.7 | 321.7 | 321.7 | 321.7 | 321.7 | 321.7 | 321.7 |
| 2.5°   | 323.1  | 321.0  | 316.1 | 312.4 | 308.2 | 304.6 | 302.5 | 299.0 | 296.9 | 297.6 | 296.9 |
| 5°     | 328.7  | 324.5  | 315.2 | 307.5 | 299.0 | 291.9 | 286.2 | 281.3 | 278.5 | 276.3 | 277.0 |
| 7.5°   | 337.9  | 331.6  | 318.1 | 305.3 | 292.6 | 282.0 | 273.4 | 267.1 | 261.4 | 260.0 | 259.3 |
| 10°    | 352.1  | 343.6  | 324.5 | 307.5 | 291.2 | 276.3 | 265.0 | 255.7 | 250.1 | 247.3 | 247.3 |
| 12.5°  | 372.0  | 360.0  | 335.8 | 313.1 | 292.6 | 274.3 | 260.0 | 248.7 | 242.4 | 239.5 | 238.8 |
| 15°    | 399.6  | 384.7  | 355.0 | 324.5 | 298.2 | 276.3 | 259.3 | 248.0 | 243.0 | 241.6 | 240.8 |
| 17.5°  | 431.5  | 415.1  | 378.4 | 343.0 | 309.6 | 282.0 | 265.7 | 256.5 | 250.7 | 248.0 | 247.3 |
| 20°    | 467.6  | 446.4  | 404.5 | 363.5 | 325.9 | 296.9 | 278.5 | 265.7 | 258.6 | 255.1 | 254.4 |
| 22.5°  | 504.5  | 481.1  | 433.0 | 385.5 | 344.3 | 317.5 | 291.2 | 275.6 | 265.7 | 261.4 | 260.0 |
| 25°    | 544.2  | 518.0  | 462.0 | 408.8 | 367.0 | 336.5 | 306.9 | 284.1 | 272.7 | 267.9 | 267.9 |
| 27.5°  | 586.7  | 556.2  | 492.5 | 433.0 | 390.5 | 354.2 | 321.7 | 293.3 | 279.8 | 274.3 | 273.4 |
| 30°    | 631.2  | 597.3  | 523.6 | 459.2 | 412.3 | 370.6 | 334.3 | 303.3 | 287.0 | 280.6 | 279.8 |
| 32.5°  | 679.5  | 640.5  | 558.2 | 487.4 | 433.0 | 385.5 | 345.8 | 312.4 | 293.3 | 285.5 | 284.9 |
| 35°    | 726.9  | 683.0  | 590.8 | 515.1 | 451.3 | 398.2 | 355.0 | 321.7 | 298.2 | 290.5 | 289.8 |
| 37.5°  | 779.4  | 728.3  | 625.6 | 541.9 | 468.3 | 408.1 | 362.7 | 328.7 | 303.3 | 294.7 | 293.3 |
| 40°    | 829.7  | 773.0  | 658.2 | 566.1 | 482.5 | 417.4 | 369.2 | 335.1 | 307.5 | 298.2 | 296.9 |
| 42.5°  | 879.3  | 818.4  | 690.7 | 588.7 | 494.5 | 423.0 | 373.3 | 339.4 | 311.7 | 301.1 | 299.0 |
| 45°    | 928.8  | 860.8  | 724.2 | 607.2 | 503.8 | 428.0 | 376.2 | 343.0 | 315.2 | 302.5 | 301.1 |
| 47.5°  | 974.9  | 902.6  | 754.5 | 623.5 | 510.1 | 430.1 | 377.6 | 344.3 | 318.1 | 303.3 | 301.1 |
| 50°    | 1018.9 | 938.8  | 780.1 | 635.6 | 514.4 | 430.1 | 377.6 | 345.0 | 319.5 | 303.3 | 301.8 |
| 52.5°  | 1057.0 | 969.9  | 800.6 | 643.4 | 515.1 | 428.0 | 375.5 | 344.3 | 319.5 | 301.8 | 299.8 |
| 55°    | 1086.1 | 995.4  | 815.5 | 646.9 | 512.9 | 424.4 | 372.0 | 342.3 | 318.8 | 299.8 | 297.6 |
| 57.5°  | 1109.5 | 1013.2 | 824.7 | 646.2 | 508.0 | 418.7 | 367.8 | 339.4 | 316.7 | 296.1 | 294.0 |
| 60°    | 1123.7 | 1022.5 | 826.1 | 641.2 | 501.0 | 411.7 | 362.0 | 335.1 | 313.9 | 292.6 | 289.8 |
| 62.5°  | 1125.8 | 1021.6 | 821.2 | 631.2 | 490.3 | 403.1 | 355.0 | 329.5 | 308.8 | 287.0 | 284.1 |
| 63°    | 1125.0 | 1021.0 | 818.4 | 629.2 | 488.1 | 401.7 | 354.2 | 328.7 | 308.2 | 285.5 | 283.3 |
| 65°    | 1117.3 | 1012.5 | 807.7 | 617.9 | 478.3 | 393.2 | 347.9 | 323.1 | 303.9 | 281.3 | 277.8 |
| 67.5°  | 1096.8 | 993.3  | 787.9 | 598.7 | 463.3 | 381.9 | 338.8 | 316.1 | 296.9 | 274.3 | 270.7 |
| 70°    | 1065.6 | 966.3  | 761.0 | 577.4 | 447.7 | 369.8 | 328.7 | 306.9 | 289.1 | 266.3 | 262.1 |
| 72.5°  | 1023.8 | 927.4  | 729.8 | 552.6 | 429.4 | 356.4 | 317.5 | 296.9 | 279.2 | 258.0 | 251.5 |
| 75°    | 973.6  | 882.0  | 695.1 | 525.7 | 409.4 | 342.3 | 306.1 | 287.0 | 269.2 | 248.0 | 241.6 |
| 77.5°  | 913.2  | 830.4  | 651.8 | 497.4 | 390.5 | 327.3 | 293.3 | 274.9 | 258.0 | 236.7 | 230.2 |
| 80°    | 848.8  | 773.0  | 608.6 | 465.5 | 369.2 | 311.7 | 280.6 | 262.1 | 245.1 | 225.4 | 217.5 |
| 82.5°  | 780.7  | 711.4  | 562.6 | 435.0 | 347.9 | 295.5 | 267.1 | 248.7 | 232.4 | 213.3 | 206.3 |
| 85°    | 712.0  | 649.7  | 518.0 | 404.5 | 325.9 | 279.8 | 253.0 | 236.0 | 218.2 | 199.9 | 192.6 |
| 87.5°  | 644.1  | 589.5  | 474.8 | 372.6 | 305.3 | 264.3 | 238.8 | 221.7 | 204.1 | 186.4 | 180.6 |
| 90°    | 578.9  | 531.3  | 429.4 | 343.0 | 284.1 | 247.3 | 224.5 | 207.6 | 190.6 | 172.8 | 167.3 |
| 92.5°  | 513.7  | 472.6  | 388.2 | 316.1 | 264.3 | 231.8 | 210.5 | 193.4 | 175.7 | 158.7 | 155.1 |
| 95°    | 455.6  | 420.1  | 349.4 | 287.0 | 245.1 | 216.9 | 196.3 | 180.0 | 161.5 | 145.3 | 143.1 |
| 97.5°  | 401.1  | 370.6  | 311.1 | 262.1 | 226.1 | 200.5 | 182.0 | 165.1 | 146.7 | 131.8 | 130.3 |
| 100°   | 352.1  | 327.3  | 278.5 | 236.7 | 206.9 | 185.6 | 168.6 | 151.6 | 133.2 | 120.5 | 119.0 |
| 102.5° | 307.5  | 287.6  | 248.0 | 213.9 | 189.9 | 170.8 | 153.7 | 137.4 | 119.7 | 108.3 | 108.3 |
| 105°   | 269.2  | 251.5  | 219.6 | 192.6 | 172.1 | 155.1 | 139.5 | 123.2 | 105.6 | 96.4  | 96.4  |
| 107.5° | 233.1  | 221.1  | 194.8 | 172.1 | 155.9 | 141.0 | 126.1 | 109.9 | 92.9  | 85.7  | 86.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 110°   | 203.3 | 193.4 | 171.4 | 154.5 | 141.0 | 127.5 | 113.4 | 97.0 | 80.8 | 75.7 | 76.5 |
| 112.5° | 177.1 | 169.3 | 150.9 | 137.4 | 126.1 | 114.8 | 100.6 | 84.4 | 70.2 | 67.4 | 68.0 |
| 115°   | 154.5 | 148.1 | 133.8 | 121.9 | 112.6 | 102.0 | 89.3  | 73.0 | 60.9 | 59.5 | 59.5 |
| 117.5° | 134.7 | 129.6 | 117.6 | 108.3 | 99.9  | 90.6  | 78.0  | 63.1 | 52.5 | 52.5 | 52.5 |
| 120°   | 118.3 | 114.1 | 104.2 | 95.7  | 88.6  | 79.3  | 67.4  | 53.1 | 45.4 | 46.1 | 46.1 |
| 122.5° | 102.8 | 99.9  | 90.6  | 84.4  | 77.3  | 69.3  | 57.4  | 43.9 | 38.9 | 40.3 | 41.1 |
| 125°   | 90.0  | 87.1  | 80.0  | 73.0  | 66.7  | 58.7  | 47.5  | 36.8 | 34.0 | 35.5 | 35.5 |
| 127.5° | 77.3  | 75.7  | 69.3  | 63.1  | 57.4  | 49.5  | 38.9  | 30.5 | 29.7 | 31.3 | 31.3 |
| 130°   | 66.7  | 65.1  | 60.2  | 53.1  | 47.5  | 40.3  | 31.3  | 24.9 | 24.9 | 26.2 | 26.2 |
| 132.5° | 56.7  | 56.0  | 51.1  | 44.6  | 38.9  | 31.9  | 24.9  | 19.9 | 21.3 | 22.6 | 22.6 |
| 135°   | 46.7  | 46.7  | 42.5  | 36.1  | 30.5  | 24.1  | 18.4  | 16.3 | 17.6 | 19.1 | 19.1 |
| 137.5° | 38.3  | 37.5  | 34.0  | 28.3  | 22.6  | 17.6  | 13.5  | 12.8 | 14.9 | 16.3 | 16.3 |
| 140°   | 30.5  | 29.7  | 26.9  | 22.0  | 16.3  | 12.0  | 9.3   | 9.9  | 12.0 | 12.8 | 13.5 |
| 142.5° | 22.6  | 22.6  | 19.9  | 16.3  | 10.6  | 7.0   | 5.7   | 7.7  | 9.3  | 9.9  | 10.6 |
| 145°   | 16.3  | 16.3  | 14.2  | 10.6  | 6.4   | 3.6   | 3.6   | 5.7  | 7.0  | 7.7  | 7.7  |
| 147.5° | 10.6  | 10.6  | 9.3   | 6.4   | 3.6   | 1.3   | 2.2   | 3.6  | 5.0  | 5.7  | 5.7  |
| 150°   | 6.4   | 5.7   | 5.0   | 2.9   | 1.3   | 0.0   | 0.7   | 1.3  | 2.9  | 3.6  | 2.9  |
| 152.5° | 2.9   | 2.9   | 2.2   | 1.3   | 0.7   | 0.0   | 0.0   | 0.0  | 0.7  | 1.3  | 1.3  |
| 155°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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)