

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: P146548

Luminaire Tested: **RDG-E02-LED-E-U-T2-8030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P146548  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33694)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: RDG-E02-LED-E-U-T2-8030  
Description: RIDGEVIEW LED AREA ROADWAY LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5061.5 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 52.1  
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



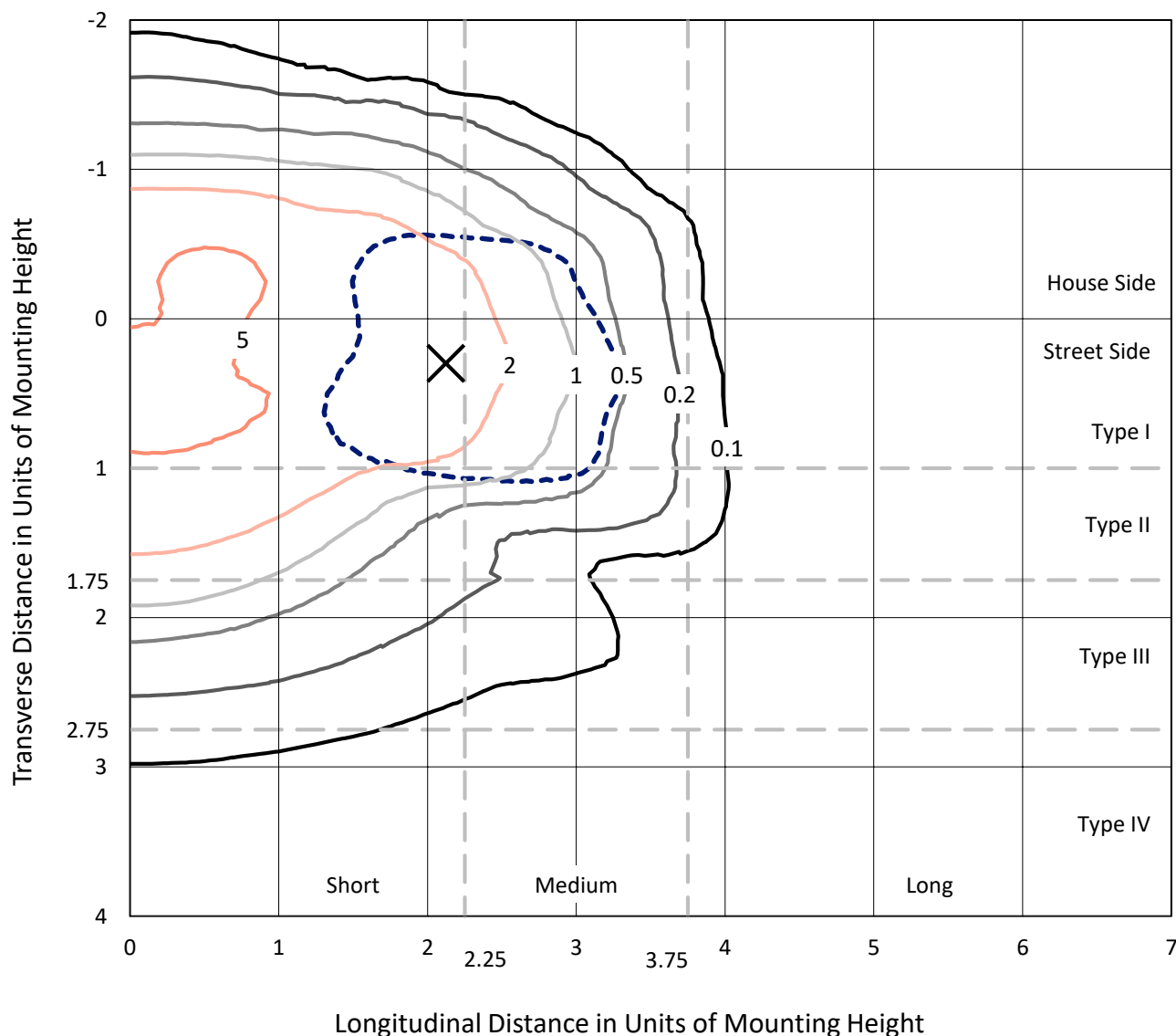
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

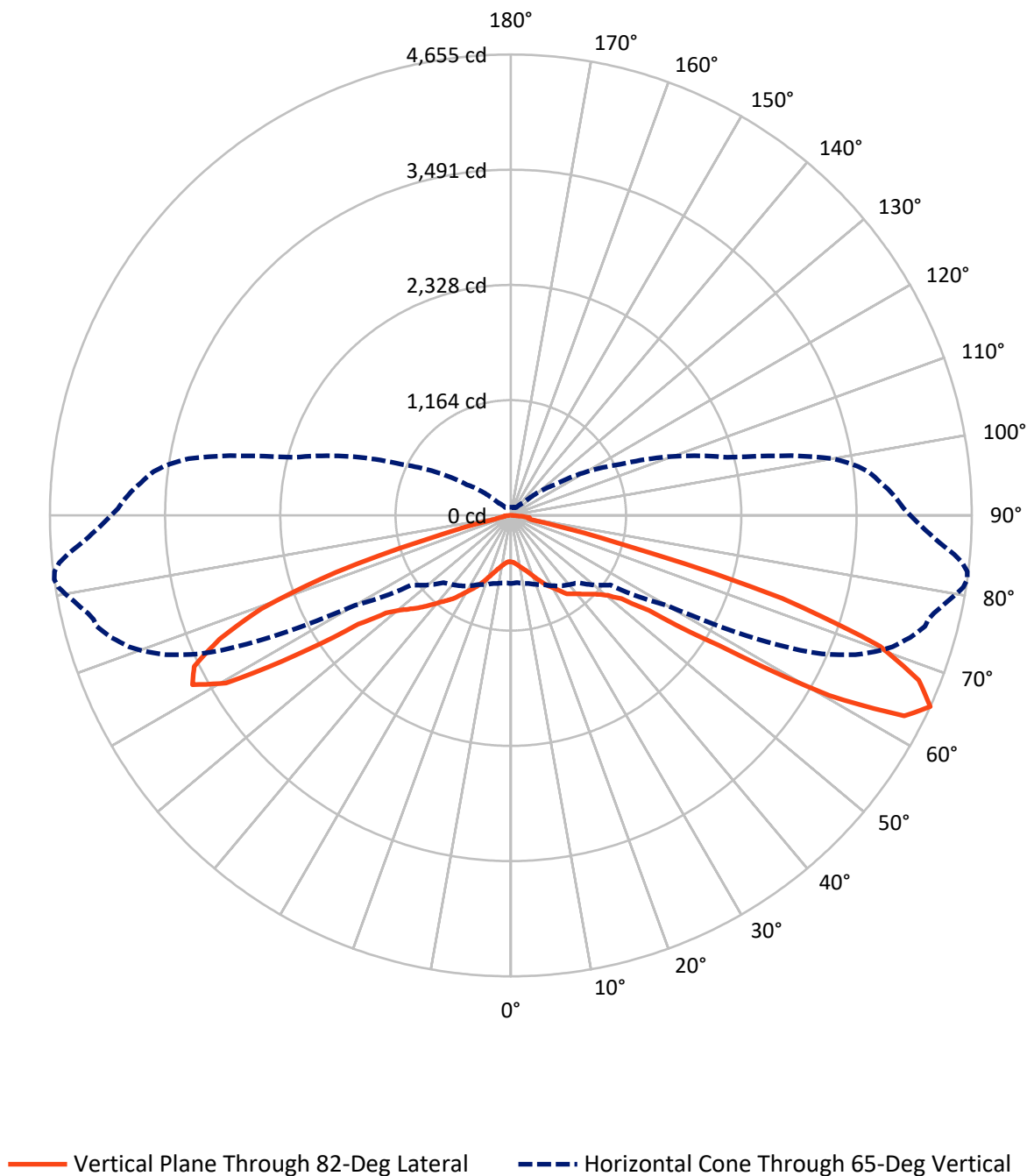


Based on 10 foot mounting height. Maximum calculated value = 6 fc  
Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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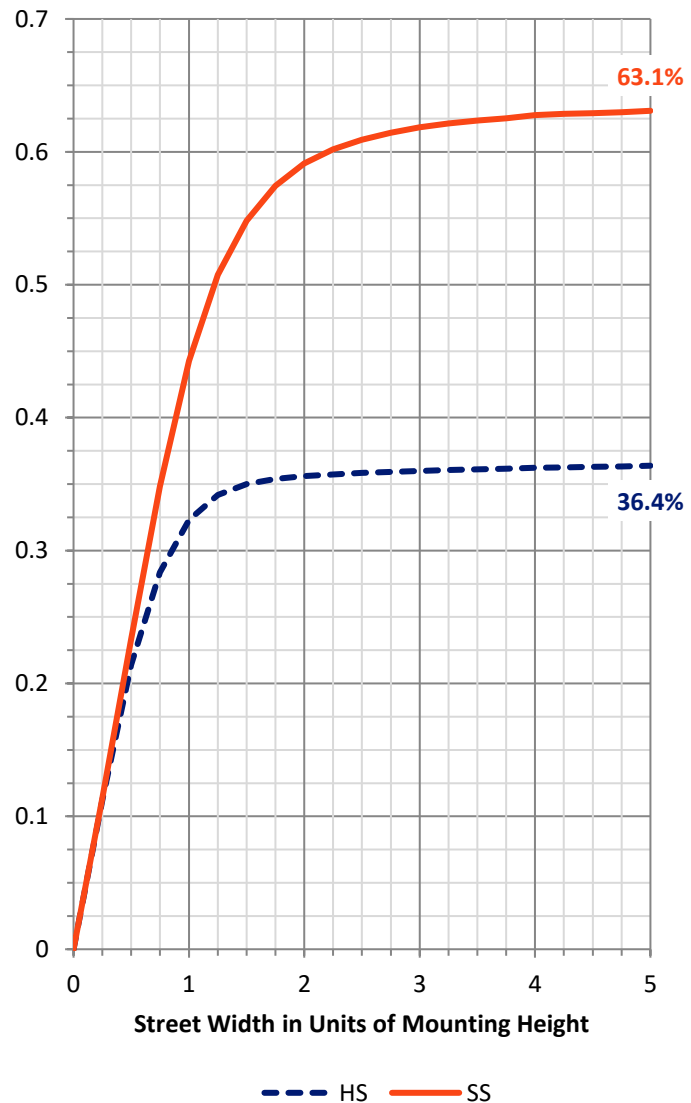
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1863.2   | 0.0    | 1863.2 |
|                    | % Fixture | 36.8     | 0.0    | 36.8   |
| <b>Street Side</b> | Lumens    | 3198.3   | 0.0    | 3198.3 |
|                    | % Fixture | 63.2     | 0.0    | 63.2   |
| <b>Total</b>       | Lumens    | 5061.5   | 0.0    | 5061.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.6   | 0.9       |
| 10°-20°   | 167.6  | 3.3       |
| 20°-30°   | 332.5  | 6.6       |
| 30°-40°   | 567.3  | 11.2      |
| 40°-50°   | 850.7  | 16.8      |
| 50°-60°   | 1184.1 | 23.4      |
| 60°-70°   | 1360.3 | 26.9      |
| 70°-80°   | 469.4  | 9.3       |
| 80°-90°   | 82.1   | 1.6       |
| 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°    | 5061.5 | 100.0     |
| 0°-180°   | 5061.5 | 100.0     |

**Coefficient of Utilization**



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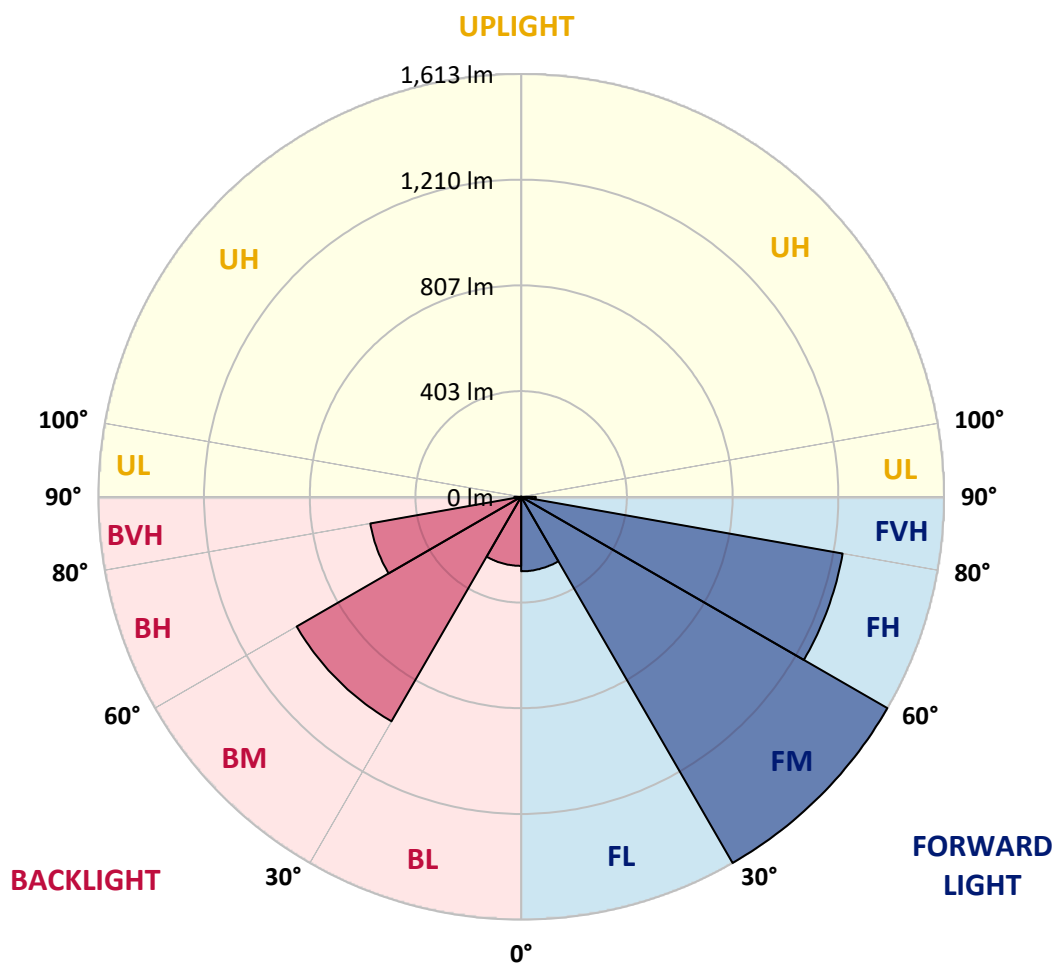
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 284.1  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 1613.2 | 31.9      |                         |      |         |
| FH   | (60°-80°)   | 1245.3 | 24.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 55.8   | 1.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 263.5  | 5.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 988.8  | 19.5      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 584.4  | 11.5      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 26.3   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  |
| 2.5°  | 494.9  | 494.6  | 494.2  | 492.9  | 492.2  | 489.5  | 486.8  | 485.1  | 483.8  | 484.5  | 482.4  |
| 5°    | 523.6  | 523.6  | 522.3  | 520.6  | 518.5  | 514.8  | 508.1  | 504.7  | 504.0  | 504.0  | 501.7  |
| 7.5°  | 553.0  | 555.0  | 551.3  | 549.9  | 546.6  | 540.8  | 533.1  | 528.7  | 527.3  | 527.3  | 525.3  |
| 10°   | 590.1  | 589.1  | 585.1  | 582.4  | 575.6  | 567.8  | 557.4  | 552.3  | 550.3  | 552.0  | 548.6  |
| 12.5° | 629.3  | 628.9  | 622.9  | 617.8  | 608.3  | 595.9  | 582.0  | 575.3  | 573.9  | 573.9  | 571.9  |
| 15°   | 669.1  | 669.5  | 662.7  | 653.2  | 638.4  | 621.5  | 606.0  | 599.6  | 597.9  | 597.2  | 594.8  |
| 17.5° | 699.5  | 702.9  | 696.1  | 684.0  | 665.7  | 647.2  | 630.6  | 624.2  | 623.9  | 623.2  | 620.5  |
| 20°   | 716.7  | 717.4  | 713.7  | 704.9  | 688.7  | 670.8  | 659.3  | 656.3  | 655.9  | 656.3  | 657.0  |
| 22.5° | 716.0  | 717.1  | 715.7  | 712.3  | 701.9  | 692.1  | 690.7  | 692.4  | 693.4  | 692.4  | 694.8  |
| 25°   | 710.6  | 712.0  | 712.0  | 713.7  | 711.0  | 714.4  | 725.2  | 729.9  | 730.2  | 730.9  | 736.0  |
| 27.5° | 722.5  | 723.8  | 723.5  | 726.5  | 728.9  | 740.7  | 760.3  | 768.7  | 769.7  | 772.1  | 776.8  |
| 30°   | 777.1  | 777.5  | 771.4  | 771.1  | 773.4  | 782.9  | 802.8  | 812.6  | 811.6  | 816.3  | 819.3  |
| 32.5° | 863.6  | 866.3  | 860.2  | 853.8  | 852.8  | 854.1  | 857.8  | 864.6  | 863.6  | 865.9  | 870.0  |
| 35°   | 962.1  | 962.5  | 959.1  | 962.8  | 964.9  | 955.7  | 938.2  | 936.5  | 931.1  | 932.1  | 933.5  |
| 37.5° | 1052.6 | 1055.0 | 1061.4 | 1085.0 | 1098.5 | 1076.3 | 1041.8 | 1020.2 | 1016.8 | 1015.2 | 1003.3 |
| 40°   | 1137.4 | 1149.2 | 1164.7 | 1195.4 | 1214.0 | 1222.1 | 1173.1 | 1129.6 | 1117.8 | 1113.1 | 1094.5 |
| 42.5° | 1236.6 | 1242.7 | 1260.9 | 1296.0 | 1320.7 | 1357.5 | 1324.7 | 1276.8 | 1262.9 | 1242.7 | 1219.4 |
| 45°   | 1320.7 | 1324.7 | 1336.2 | 1365.9 | 1417.6 | 1479.0 | 1482.7 | 1449.3 | 1438.5 | 1418.2 | 1384.1 |
| 47.5° | 1377.1 | 1376.7 | 1385.2 | 1414.2 | 1481.4 | 1575.2 | 1630.9 | 1629.6 | 1617.1 | 1610.0 | 1581.0 |
| 50°   | 1399.0 | 1398.7 | 1404.1 | 1436.5 | 1509.7 | 1632.6 | 1755.5 | 1797.7 | 1797.4 | 1800.1 | 1785.2 |
| 52.5° | 1403.1 | 1402.7 | 1403.4 | 1429.4 | 1504.0 | 1652.5 | 1845.3 | 1944.9 | 1959.4 | 1977.6 | 1994.2 |
| 55°   | 1372.7 | 1376.0 | 1383.5 | 1410.8 | 1482.4 | 1644.4 | 1911.8 | 2083.0 | 2117.7 | 2154.9 | 2215.0 |
| 57.5° | 1302.4 | 1308.9 | 1334.5 | 1383.5 | 1459.4 | 1624.5 | 1958.1 | 2253.8 | 2324.4 | 2414.2 | 2576.9 |
| 60°   | 1201.8 | 1207.6 | 1243.0 | 1307.8 | 1392.6 | 1537.8 | 1904.4 | 2325.4 | 2459.4 | 2615.4 | 2948.9 |
| 62.5° | 1023.9 | 1040.1 | 1059.0 | 1105.0 | 1193.7 | 1310.5 | 1663.3 | 2204.5 | 2412.1 | 2641.0 | 3100.1 |
| 65°   | 687.7  | 680.9  | 712.3  | 770.7  | 868.3  | 959.1  | 1225.5 | 1818.3 | 2080.9 | 2395.9 | 2964.1 |
| 67.5° | 425.7  | 426.7  | 448.0  | 505.0  | 578.6  | 649.2  | 776.8  | 1159.0 | 1391.9 | 1691.4 | 2374.7 |
| 70°   | 351.8  | 355.8  | 373.0  | 426.0  | 488.8  | 568.5  | 576.6  | 614.4  | 718.7  | 863.6  | 1466.9 |
| 72.5° | 279.2  | 280.9  | 298.4  | 342.7  | 431.4  | 540.8  | 684.6  | 466.9  | 458.8  | 480.7  | 744.1  |
| 75°   | 173.2  | 174.5  | 183.3  | 211.7  | 279.9  | 421.3  | 753.9  | 536.8  | 503.0  | 474.7  | 479.4  |
| 77.5° | 89.5   | 92.2   | 96.9   | 109.7  | 146.9  | 235.3  | 593.5  | 680.6  | 642.1  | 603.6  | 528.3  |
| 80°   | 50.6   | 50.6   | 55.0   | 58.1   | 69.5   | 95.9   | 301.8  | 736.6  | 804.8  | 821.4  | 737.6  |
| 82.5° | 22.6   | 25.3   | 34.1   | 36.5   | 39.8   | 43.9   | 99.9   | 442.6  | 614.1  | 767.0  | 948.0  |
| 85°   | 13.5   | 13.2   | 21.6   | 23.6   | 24.6   | 20.9   | 37.5   | 180.6  | 287.0  | 420.0  | 628.3  |
| 87.5° | 5.4    | 5.7    | 9.1    | 9.8    | 11.5   | 8.4    | 14.2   | 38.8   | 57.1   | 82.7   | 116.8  |
| 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):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  |
| 2.5°  | 482.1  | 482.1  | 481.8  | 481.4  | 481.1  | 480.1  | 479.7  | 479.0  | 478.7  | 477.7  | 477.4  |
| 5°    | 501.3  | 500.3  | 500.0  | 499.3  | 499.0  | 497.6  | 497.6  | 496.3  | 495.3  | 493.9  | 493.6  |
| 7.5°  | 524.3  | 522.9  | 521.9  | 521.2  | 520.9  | 518.5  | 518.5  | 516.5  | 516.2  | 514.5  | 513.8  |
| 10°   | 547.6  | 546.6  | 545.2  | 544.5  | 544.2  | 542.9  | 541.5  | 540.2  | 539.1  | 538.1  | 536.8  |
| 12.5° | 570.9  | 568.8  | 568.2  | 567.2  | 566.5  | 565.5  | 565.1  | 562.1  | 562.1  | 561.1  | 559.7  |
| 15°   | 593.5  | 593.2  | 590.8  | 590.5  | 589.8  | 590.1  | 588.1  | 588.4  | 587.4  | 585.7  | 585.1  |
| 17.5° | 621.2  | 618.8  | 619.8  | 618.1  | 618.5  | 617.8  | 617.1  | 616.8  | 617.5  | 617.1  | 617.8  |
| 20°   | 655.6  | 654.9  | 655.9  | 653.6  | 655.9  | 656.3  | 655.6  | 657.3  | 656.6  | 657.3  | 655.3  |
| 22.5° | 696.5  | 694.1  | 694.1  | 695.8  | 696.8  | 699.8  | 698.1  | 699.5  | 700.9  | 701.9  | 700.5  |
| 25°   | 737.6  | 737.0  | 738.3  | 739.7  | 741.7  | 744.4  | 743.7  | 744.1  | 746.8  | 748.5  | 748.8  |
| 27.5° | 779.5  | 779.5  | 783.6  | 783.6  | 786.3  | 789.3  | 790.3  | 791.7  | 793.7  | 796.1  | 796.1  |
| 30°   | 822.7  | 822.7  | 826.4  | 829.8  | 831.2  | 834.9  | 836.9  | 838.9  | 842.6  | 843.3  | 846.4  |
| 32.5° | 872.0  | 873.0  | 876.7  | 878.8  | 881.8  | 886.2  | 886.9  | 889.2  | 893.6  | 895.0  | 897.3  |
| 35°   | 936.2  | 932.8  | 936.2  | 939.9  | 941.6  | 940.2  | 947.6  | 950.7  | 953.7  | 955.4  | 958.4  |
| 37.5° | 1002.3 | 996.6  | 996.9  | 996.2  | 992.2  | 994.6  | 994.6  | 993.9  | 995.9  | 995.6  | 996.9  |
| 40°   | 1086.0 | 1075.9 | 1072.9 | 1066.5 | 1057.7 | 1053.0 | 1047.9 | 1047.2 | 1042.2 | 1044.2 | 1040.5 |
| 42.5° | 1200.8 | 1185.6 | 1177.5 | 1157.6 | 1146.8 | 1134.0 | 1121.5 | 1110.7 | 1105.0 | 1098.5 | 1093.8 |
| 45°   | 1358.5 | 1340.6 | 1321.0 | 1288.9 | 1270.4 | 1244.7 | 1228.2 | 1203.5 | 1187.0 | 1173.1 | 1163.4 |
| 47.5° | 1556.3 | 1526.3 | 1510.4 | 1480.4 | 1448.0 | 1409.1 | 1373.7 | 1339.2 | 1311.2 | 1280.8 | 1256.9 |
| 50°   | 1786.2 | 1748.7 | 1736.3 | 1696.4 | 1678.2 | 1634.6 | 1596.8 | 1554.3 | 1510.4 | 1464.5 | 1420.6 |
| 52.5° | 1989.8 | 1985.4 | 1990.5 | 1963.8 | 1963.1 | 1941.2 | 1899.3 | 1849.7 | 1808.8 | 1762.6 | 1704.9 |
| 55°   | 2233.9 | 2277.4 | 2286.9 | 2283.2 | 2303.1 | 2302.4 | 2298.4 | 2293.3 | 2260.9 | 2195.4 | 2175.5 |
| 57.5° | 2664.6 | 2713.6 | 2785.8 | 2818.6 | 2890.8 | 2899.3 | 2966.1 | 2940.1 | 2989.8 | 2976.2 | 2985.4 |
| 60°   | 3103.2 | 3253.4 | 3390.5 | 3494.8 | 3596.1 | 3688.2 | 3801.0 | 3849.3 | 3885.4 | 3941.8 | 4001.2 |
| 62.5° | 3299.3 | 3488.7 | 3652.1 | 3800.7 | 3926.6 | 4043.4 | 4140.3 | 4232.1 | 4304.4 | 4369.2 | 4419.1 |
| 65°   | 3220.0 | 3439.8 | 3599.1 | 3754.1 | 3871.6 | 3980.3 | 4076.5 | 4145.3 | 4217.3 | 4276.0 | 4329.0 |
| 67.5° | 2680.9 | 2973.5 | 3181.5 | 3357.4 | 3504.9 | 3628.8 | 3728.8 | 3823.6 | 3874.6 | 3938.7 | 3967.4 |
| 70°   | 1775.8 | 2151.2 | 2445.2 | 2682.9 | 2916.8 | 3057.3 | 3175.8 | 3286.2 | 3344.2 | 3396.2 | 3428.3 |
| 72.5° | 975.3  | 1231.9 | 1545.9 | 1828.4 | 2053.3 | 2237.6 | 2375.7 | 2480.3 | 2540.1 | 2584.6 | 2538.4 |
| 75°   | 552.6  | 679.2  | 832.9  | 989.2  | 1159.6 | 1289.6 | 1326.1 | 1370.6 | 1381.1 | 1358.2 | 1298.7 |
| 77.5° | 508.1  | 508.1  | 508.4  | 504.7  | 512.1  | 521.2  | 515.8  | 506.7  | 465.5  | 456.4  | 443.6  |
| 80°   | 660.7  | 588.8  | 511.8  | 420.3  | 342.7  | 289.0  | 272.4  | 273.8  | 287.0  | 312.6  | 341.0  |
| 82.5° | 936.5  | 865.6  | 754.5  | 615.1  | 489.5  | 384.2  | 315.0  | 283.2  | 282.9  | 308.6  | 345.4  |
| 85°   | 683.0  | 688.7  | 664.1  | 587.4  | 468.6  | 369.0  | 298.1  | 228.9  | 206.6  | 206.6  | 203.9  |
| 87.5° | 119.5  | 123.2  | 106.3  | 95.2   | 66.5   | 46.9   | 42.2   | 37.1   | 36.8   | 38.1   | 35.1   |
| 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):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  |
| 2.5°  | 477.4  | 476.7  | 476.0  | 475.7  | 475.7  | 475.0  | 475.0  | 474.3  | 474.7  | 474.3  | 473.3  |
| 5°    | 492.9  | 492.6  | 491.5  | 489.9  | 489.5  | 488.2  | 488.5  | 487.2  | 487.2  | 486.5  | 484.8  |
| 7.5°  | 512.5  | 511.8  | 511.1  | 509.8  | 508.4  | 508.4  | 506.1  | 506.1  | 504.4  | 503.7  | 502.3  |
| 10°   | 535.8  | 533.7  | 532.7  | 531.4  | 531.0  | 530.7  | 528.3  | 528.3  | 526.3  | 526.0  | 525.0  |
| 12.5° | 558.7  | 557.4  | 556.4  | 555.7  | 554.0  | 553.7  | 552.6  | 551.6  | 550.6  | 549.9  | 549.6  |
| 15°   | 583.7  | 583.0  | 582.0  | 582.0  | 582.0  | 580.3  | 579.3  | 578.6  | 578.6  | 577.6  | 578.3  |
| 17.5° | 616.1  | 617.1  | 615.8  | 615.1  | 614.1  | 615.8  | 614.1  | 614.1  | 615.1  | 615.1  | 612.7  |
| 20°   | 656.3  | 657.6  | 656.3  | 656.6  | 655.9  | 656.3  | 656.6  | 657.3  | 658.7  | 656.3  | 656.6  |
| 22.5° | 700.9  | 701.2  | 702.2  | 701.2  | 702.9  | 701.9  | 703.9  | 705.6  | 705.2  | 704.6  | 704.9  |
| 25°   | 749.5  | 748.5  | 748.8  | 751.8  | 754.2  | 753.5  | 753.9  | 756.6  | 755.9  | 755.2  | 755.5  |
| 27.5° | 798.8  | 798.1  | 799.1  | 801.8  | 804.5  | 804.2  | 803.5  | 805.5  | 805.5  | 803.8  | 804.5  |
| 30°   | 847.7  | 848.7  | 850.4  | 850.4  | 851.8  | 853.1  | 852.1  | 854.5  | 854.8  | 853.4  | 855.1  |
| 32.5° | 899.4  | 901.4  | 900.7  | 905.4  | 905.4  | 905.8  | 906.8  | 906.4  | 909.8  | 907.1  | 908.1  |
| 35°   | 961.5  | 962.1  | 966.2  | 969.6  | 971.6  | 973.3  | 973.3  | 974.3  | 976.0  | 974.6  | 976.7  |
| 37.5° | 999.3  | 1000.6 | 1002.0 | 1004.0 | 1004.0 | 1004.0 | 1005.7 | 1006.0 | 1007.0 | 1006.7 | 1007.4 |
| 40°   | 1040.8 | 1041.1 | 1041.5 | 1041.8 | 1043.2 | 1043.8 | 1042.2 | 1044.5 | 1042.8 | 1043.5 | 1044.5 |
| 42.5° | 1091.1 | 1086.4 | 1087.1 | 1086.0 | 1088.4 | 1085.4 | 1086.0 | 1088.7 | 1087.4 | 1089.4 | 1089.4 |
| 45°   | 1149.5 | 1144.1 | 1139.4 | 1136.7 | 1136.7 | 1132.6 | 1133.3 | 1134.3 | 1136.0 | 1138.7 | 1143.4 |
| 47.5° | 1235.9 | 1217.4 | 1208.3 | 1198.8 | 1194.1 | 1189.0 | 1190.7 | 1191.0 | 1191.7 | 1196.1 | 1207.9 |
| 50°   | 1377.4 | 1346.3 | 1322.4 | 1293.7 | 1282.9 | 1274.1 | 1269.0 | 1269.4 | 1269.4 | 1278.5 | 1290.3 |
| 52.5° | 1650.8 | 1593.1 | 1536.1 | 1486.1 | 1443.2 | 1422.6 | 1398.7 | 1392.6 | 1392.9 | 1400.7 | 1408.8 |
| 55°   | 2123.1 | 2043.8 | 1983.4 | 1872.3 | 1838.5 | 1743.7 | 1693.7 | 1665.0 | 1642.7 | 1653.5 | 1665.4 |
| 57.5° | 2970.5 | 2897.3 | 2849.3 | 2716.6 | 2595.8 | 2561.3 | 2479.3 | 2412.8 | 2385.5 | 2353.7 | 2355.7 |
| 60°   | 4010.0 | 3972.2 | 3960.0 | 3882.4 | 3838.8 | 3703.4 | 3692.6 | 3608.6 | 3529.2 | 3460.7 | 3488.7 |
| 62.5° | 4457.6 | 4475.2 | 4489.4 | 4516.7 | 4527.2 | 4514.3 | 4460.0 | 4422.9 | 4357.7 | 4267.9 | 4212.9 |
| 65°   | 4344.5 | 4384.7 | 4445.1 | 4502.2 | 4570.4 | 4627.1 | 4655.1 | 4644.3 | 4585.6 | 4493.1 | 4377.6 |
| 67.5° | 3988.0 | 4028.9 | 4080.9 | 4153.1 | 4257.4 | 4367.8 | 4444.8 | 4493.7 | 4447.2 | 4363.8 | 4246.3 |
| 70°   | 3426.6 | 3466.4 | 3468.1 | 3569.1 | 3681.5 | 3820.6 | 3957.0 | 4008.3 | 3955.3 | 3899.6 | 3801.3 |
| 72.5° | 2566.4 | 2542.4 | 2564.7 | 2583.3 | 2647.4 | 2735.2 | 2867.5 | 2861.8 | 2780.8 | 2737.6 | 2586.7 |
| 75°   | 1206.2 | 1190.0 | 1166.4 | 1150.9 | 1136.0 | 1105.0 | 1119.8 | 1056.3 | 1034.4 | 1043.2 | 912.9  |
| 77.5° | 433.8  | 411.5  | 375.7  | 341.0  | 297.1  | 246.1  | 207.6  | 182.3  | 169.8  | 170.1  | 162.4  |
| 80°   | 363.9  | 374.7  | 369.7  | 335.2  | 285.9  | 232.6  | 174.2  | 132.0  | 112.8  | 104.7  | 99.6   |
| 82.5° | 394.7  | 449.0  | 476.0  | 454.7  | 384.2  | 295.7  | 190.4  | 115.1  | 84.4   | 72.2   | 69.2   |
| 85°   | 218.8  | 219.1  | 212.3  | 202.9  | 179.9  | 123.6  | 82.4   | 54.7   | 43.9   | 39.2   | 37.8   |
| 87.5° | 37.1   | 35.4   | 35.4   | 33.1   | 29.0   | 28.4   | 25.3   | 24.0   | 21.3   | 19.6   | 18.9   |
| 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: P146548

CATALOG NUMBER: RDG-E02-LED-E-U-T2-8030

**CANDELA DISTRIBUTION (continued):**

|       | 87°    | 88°    | 89°    | 90°    | 91°    | 92°    | 93°    | 94°    | 95°    | 96°    | 97°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  |
| 2.5°  | 472.3  | 471.6  | 471.3  | 470.9  | 470.9  | 470.6  | 470.6  | 469.9  | 469.3  | 468.9  | 468.6  |
| 5°    | 483.1  | 482.4  | 481.8  | 481.1  | 481.1  | 480.4  | 479.7  | 479.0  | 478.0  | 476.3  | 476.0  |
| 7.5°  | 501.3  | 500.0  | 500.0  | 497.6  | 497.6  | 496.3  | 495.3  | 495.3  | 493.9  | 491.2  | 490.9  |
| 10°   | 523.9  | 521.6  | 520.6  | 519.2  | 518.5  | 517.2  | 517.2  | 515.8  | 515.2  | 514.2  | 510.8  |
| 12.5° | 548.3  | 546.6  | 545.9  | 544.2  | 543.2  | 543.2  | 542.5  | 540.2  | 541.8  | 539.5  | 537.8  |
| 15°   | 577.6  | 577.3  | 574.3  | 575.3  | 574.9  | 574.6  | 574.9  | 572.9  | 572.6  | 572.6  | 570.5  |
| 17.5° | 614.4  | 611.7  | 612.1  | 612.1  | 612.7  | 612.7  | 610.0  | 611.4  | 611.7  | 611.0  | 610.4  |
| 20°   | 657.6  | 656.6  | 657.6  | 655.6  | 657.6  | 657.6  | 659.0  | 658.7  | 659.0  | 659.7  | 659.7  |
| 22.5° | 703.9  | 706.6  | 706.9  | 707.6  | 705.2  | 709.3  | 709.3  | 710.0  | 711.7  | 711.7  | 712.3  |
| 25°   | 759.9  | 758.6  | 756.9  | 759.3  | 759.9  | 762.6  | 763.3  | 763.3  | 766.0  | 766.0  | 767.0  |
| 27.5° | 806.5  | 807.9  | 807.5  | 808.9  | 808.2  | 811.9  | 813.3  | 817.3  | 816.3  | 818.3  | 821.0  |
| 30°   | 854.5  | 857.2  | 855.8  | 856.1  | 857.8  | 860.2  | 862.9  | 866.9  | 867.6  | 873.0  | 874.4  |
| 32.5° | 909.8  | 911.8  | 913.5  | 914.2  | 914.2  | 918.3  | 922.7  | 924.0  | 931.1  | 935.1  | 939.9  |
| 35°   | 980.0  | 980.4  | 981.4  | 982.4  | 981.7  | 986.1  | 990.5  | 991.9  | 999.3  | 1000.3 | 1010.1 |
| 37.5° | 1009.8 | 1010.4 | 1014.5 | 1016.5 | 1017.9 | 1023.3 | 1031.4 | 1037.4 | 1045.5 | 1053.3 | 1064.4 |
| 40°   | 1046.9 | 1050.9 | 1054.7 | 1057.7 | 1062.8 | 1070.2 | 1082.7 | 1088.7 | 1100.9 | 1115.4 | 1126.2 |
| 42.5° | 1093.8 | 1101.2 | 1103.9 | 1109.7 | 1122.2 | 1131.3 | 1143.8 | 1156.9 | 1173.1 | 1190.7 | 1203.5 |
| 45°   | 1149.5 | 1156.6 | 1166.7 | 1173.1 | 1187.7 | 1202.2 | 1222.1 | 1233.6 | 1250.1 | 1270.4 | 1284.6 |
| 47.5° | 1217.0 | 1226.8 | 1237.0 | 1250.1 | 1267.3 | 1282.5 | 1302.4 | 1317.3 | 1333.8 | 1350.4 | 1365.9 |
| 50°   | 1301.1 | 1315.6 | 1329.1 | 1343.0 | 1365.9 | 1378.7 | 1398.3 | 1413.9 | 1429.4 | 1445.9 | 1460.1 |
| 52.5° | 1414.2 | 1436.1 | 1453.4 | 1462.8 | 1493.9 | 1506.7 | 1530.7 | 1541.5 | 1554.3 | 1569.1 | 1587.4 |
| 55°   | 1661.0 | 1695.1 | 1724.1 | 1741.0 | 1788.2 | 1805.1 | 1836.2 | 1852.1 | 1843.3 | 1862.2 | 1894.9 |
| 57.5° | 2374.7 | 2416.5 | 2451.3 | 2474.2 | 2522.5 | 2546.2 | 2547.8 | 2607.3 | 2572.1 | 2606.9 | 2612.0 |
| 60°   | 3414.1 | 3447.2 | 3438.8 | 3439.1 | 3423.9 | 3402.0 | 3444.2 | 3380.0 | 3407.0 | 3408.7 | 3348.3 |
| 62.5° | 4111.2 | 4060.6 | 4037.0 | 3997.8 | 3952.2 | 3917.1 | 3893.2 | 3841.5 | 3800.3 | 3767.6 | 3703.8 |
| 65°   | 4275.3 | 4187.5 | 4109.9 | 4036.6 | 3969.5 | 3922.9 | 3872.2 | 3816.9 | 3752.4 | 3698.0 | 3635.9 |
| 67.5° | 4116.7 | 3993.8 | 3878.6 | 3782.1 | 3690.3 | 3628.8 | 3555.6 | 3502.9 | 3421.9 | 3350.3 | 3303.0 |
| 70°   | 3656.5 | 3486.4 | 3352.0 | 3290.2 | 3199.1 | 3067.1 | 2997.2 | 2931.3 | 2881.7 | 2816.9 | 2788.2 |
| 72.5° | 2565.1 | 2355.1 | 2251.4 | 2255.5 | 2163.0 | 2068.5 | 2070.8 | 2030.6 | 1966.5 | 1964.5 | 1954.7 |
| 75°   | 942.6  | 857.5  | 797.7  | 800.4  | 766.0  | 729.2  | 739.3  | 750.1  | 729.2  | 771.7  | 705.9  |
| 77.5° | 149.9  | 145.8  | 144.5  | 141.5  | 134.0  | 139.4  | 135.7  | 142.8  | 143.8  | 151.6  | 152.3  |
| 80°   | 95.5   | 91.5   | 90.5   | 88.8   | 88.5   | 88.5   | 87.8   | 87.8   | 87.8   | 88.1   | 87.4   |
| 82.5° | 63.8   | 61.4   | 61.1   | 60.1   | 61.8   | 62.1   | 62.5   | 65.2   | 67.5   | 68.2   | 70.9   |
| 85°   | 34.8   | 33.1   | 33.1   | 32.4   | 33.8   | 34.1   | 37.1   | 40.8   | 45.6   | 47.6   | 52.0   |
| 87.5° | 17.6   | 18.6   | 18.2   | 18.9   | 19.9   | 22.3   | 24.6   | 27.0   | 29.7   | 33.4   | 36.5   |
| 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):**

|       | 98°    | 99°    | 100°   | 101°   | 102°   | 103°   | 104°   | 105°   | 115°   | 125°   | 135°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9  | 468.9 |
| 2.5°  | 467.9  | 467.6  | 467.6  | 466.9  | 466.9  | 466.6  | 465.9  | 465.2  | 462.2  | 458.5  | 456.1 |
| 5°    | 475.0  | 474.3  | 474.0  | 473.3  | 472.3  | 472.3  | 471.3  | 469.9  | 464.2  | 458.1  | 454.4 |
| 7.5°  | 489.5  | 489.2  | 488.2  | 486.8  | 485.5  | 484.1  | 483.4  | 482.8  | 474.0  | 468.2  | 465.5 |
| 10°   | 510.4  | 510.1  | 507.7  | 507.4  | 505.4  | 505.7  | 504.0  | 502.7  | 496.9  | 490.5  | 486.8 |
| 12.5° | 537.1  | 538.5  | 537.1  | 534.1  | 534.8  | 533.7  | 532.1  | 530.4  | 525.3  | 520.2  | 514.5 |
| 15°   | 570.2  | 568.5  | 567.2  | 569.9  | 567.5  | 567.2  | 568.2  | 568.5  | 562.4  | 557.0  | 548.9 |
| 17.5° | 611.4  | 611.4  | 610.7  | 611.4  | 610.0  | 611.0  | 610.4  | 611.0  | 608.3  | 600.9  | 589.1 |
| 20°   | 658.3  | 661.0  | 661.0  | 660.0  | 659.7  | 661.7  | 662.7  | 659.0  | 659.7  | 653.2  | 632.0 |
| 22.5° | 713.0  | 715.0  | 715.7  | 714.7  | 715.0  | 717.7  | 719.4  | 716.7  | 722.8  | 712.3  | 679.6 |
| 25°   | 769.4  | 772.4  | 771.1  | 771.4  | 774.1  | 777.1  | 780.2  | 777.5  | 789.3  | 773.1  | 730.2 |
| 27.5° | 825.1  | 827.8  | 827.1  | 829.1  | 833.5  | 837.6  | 841.0  | 839.9  | 859.5  | 838.3  | 783.6 |
| 30°   | 877.8  | 884.2  | 885.5  | 887.9  | 893.3  | 900.0  | 905.4  | 905.1  | 930.4  | 901.7  | 827.1 |
| 32.5° | 942.6  | 949.7  | 952.4  | 957.4  | 967.9  | 972.6  | 979.4  | 980.0  | 1005.4 | 957.4  | 863.9 |
| 35°   | 1017.5 | 1024.6 | 1030.3 | 1034.1 | 1045.9 | 1051.6 | 1058.4 | 1061.4 | 1078.3 | 1009.4 | 889.6 |
| 37.5° | 1075.6 | 1081.7 | 1092.8 | 1100.6 | 1111.0 | 1122.5 | 1130.3 | 1134.0 | 1143.4 | 1054.0 | 901.4 |
| 40°   | 1139.1 | 1152.2 | 1163.0 | 1174.8 | 1186.3 | 1195.4 | 1202.5 | 1208.3 | 1204.5 | 1091.1 | 896.3 |
| 42.5° | 1219.4 | 1233.2 | 1247.8 | 1257.9 | 1264.0 | 1276.1 | 1279.5 | 1283.5 | 1253.2 | 1108.0 | 873.4 |
| 45°   | 1303.1 | 1314.3 | 1326.4 | 1333.8 | 1341.9 | 1348.0 | 1349.0 | 1349.4 | 1289.3 | 1098.2 | 831.8 |
| 47.5° | 1383.8 | 1393.3 | 1401.7 | 1405.8 | 1409.8 | 1410.1 | 1408.5 | 1405.8 | 1308.5 | 1065.1 | 781.9 |
| 50°   | 1472.3 | 1478.0 | 1481.7 | 1482.0 | 1485.8 | 1478.7 | 1473.9 | 1461.5 | 1306.5 | 1014.5 | 729.2 |
| 52.5° | 1599.5 | 1598.2 | 1593.5 | 1593.1 | 1581.3 | 1567.8 | 1559.0 | 1541.1 | 1292.7 | 959.8  | 668.4 |
| 55°   | 1891.9 | 1879.1 | 1893.9 | 1856.1 | 1824.7 | 1803.8 | 1754.2 | 1718.0 | 1306.5 | 908.8  | 598.6 |
| 57.5° | 2594.4 | 2550.5 | 2555.3 | 2494.2 | 2427.3 | 2302.1 | 2228.1 | 2128.2 | 1415.2 | 880.5  | 510.4 |
| 60°   | 3335.5 | 3263.2 | 3195.0 | 3086.6 | 2944.5 | 2785.5 | 2642.4 | 2486.1 | 1523.2 | 845.7  | 416.6 |
| 62.5° | 3641.3 | 3548.1 | 3429.6 | 3276.7 | 3094.1 | 2896.9 | 2699.1 | 2520.8 | 1463.8 | 741.0  | 300.1 |
| 65°   | 3542.7 | 3431.3 | 3305.1 | 3105.5 | 2898.3 | 2669.0 | 2452.3 | 2263.9 | 1219.1 | 541.8  | 181.3 |
| 67.5° | 3192.6 | 3096.8 | 2941.1 | 2752.8 | 2496.2 | 2266.3 | 2051.9 | 1877.7 | 898.7  | 334.9  | 104.0 |
| 70°   | 2688.3 | 2555.6 | 2422.6 | 2241.6 | 1971.2 | 1754.5 | 1555.0 | 1401.0 | 570.2  | 165.4  | 76.6  |
| 72.5° | 1855.4 | 1750.4 | 1644.1 | 1482.0 | 1280.2 | 1130.9 | 959.4  | 832.9  | 298.4  | 89.1   | 70.6  |
| 75°   | 722.8  | 711.3  | 699.2  | 625.6  | 557.0  | 446.3  | 391.9  | 353.5  | 124.2  | 77.3   | 69.5  |
| 77.5° | 158.7  | 168.1  | 173.5  | 164.4  | 156.6  | 139.8  | 133.7  | 119.5  | 83.0   | 79.3   | 68.9  |
| 80°   | 87.4   | 87.4   | 87.4   | 88.5   | 86.8   | 86.8   | 85.7   | 84.1   | 77.6   | 79.3   | 67.5  |
| 82.5° | 71.6   | 72.6   | 73.9   | 74.3   | 73.9   | 74.3   | 73.6   | 73.3   | 76.0   | 79.7   | 64.1  |
| 85°   | 54.7   | 58.1   | 60.1   | 62.8   | 65.5   | 67.2   | 67.9   | 68.2   | 69.9   | 75.6   | 56.0  |
| 87.5° | 38.8   | 41.5   | 45.9   | 46.6   | 49.6   | 53.3   | 54.7   | 56.7   | 55.7   | 57.4   | 26.3  |
| 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):**

|       | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|
| 0°    | 468.9 | 468.9 | 468.9 | 468.9 | 468.9 |
| 2.5°  | 454.1 | 451.4 | 450.4 | 450.0 | 449.3 |
| 5°    | 451.4 | 449.7 | 448.3 | 447.3 | 448.0 |
| 7.5°  | 463.5 | 462.5 | 460.1 | 459.5 | 460.5 |
| 10°   | 485.1 | 482.8 | 479.4 | 479.7 | 479.4 |
| 12.5° | 512.1 | 505.7 | 500.3 | 498.0 | 496.3 |
| 15°   | 539.8 | 527.3 | 516.2 | 511.1 | 509.1 |
| 17.5° | 570.5 | 549.3 | 532.1 | 522.9 | 521.2 |
| 20°   | 602.9 | 573.6 | 551.3 | 540.5 | 538.8 |
| 22.5° | 640.4 | 599.9 | 571.6 | 556.7 | 554.3 |
| 25°   | 676.9 | 623.5 | 585.7 | 567.5 | 564.5 |
| 27.5° | 710.0 | 641.4 | 594.2 | 572.6 | 569.5 |
| 30°   | 737.6 | 655.6 | 601.3 | 576.6 | 573.2 |
| 32.5° | 755.9 | 663.4 | 603.6 | 577.0 | 572.9 |
| 35°   | 761.6 | 658.3 | 593.5 | 562.8 | 559.4 |
| 37.5° | 749.5 | 637.7 | 566.5 | 531.7 | 529.0 |
| 40°   | 721.8 | 599.6 | 523.9 | 487.8 | 484.5 |
| 42.5° | 678.6 | 551.3 | 474.7 | 436.5 | 433.5 |
| 45°   | 630.6 | 499.6 | 422.3 | 384.2 | 381.1 |
| 47.5° | 578.3 | 445.0 | 367.3 | 332.2 | 327.5 |
| 50°   | 520.9 | 385.5 | 311.3 | 276.8 | 272.4 |
| 52.5° | 453.7 | 320.7 | 251.8 | 220.8 | 218.1 |
| 55°   | 375.1 | 255.6 | 200.5 | 177.9 | 175.2 |
| 57.5° | 291.7 | 194.5 | 159.3 | 148.2 | 143.8 |
| 60°   | 211.7 | 147.9 | 126.9 | 121.5 | 119.2 |
| 62.5° | 143.8 | 110.4 | 102.3 | 100.6 | 98.9  |
| 65°   | 97.6  | 86.4  | 84.1  | 84.4  | 83.4  |
| 67.5° | 77.0  | 72.6  | 71.2  | 71.9  | 71.6  |
| 70°   | 67.5  | 64.1  | 63.8  | 64.5  | 64.1  |
| 72.5° | 63.8  | 59.4  | 60.1  | 61.1  | 60.8  |
| 75°   | 62.1  | 57.4  | 58.7  | 59.4  | 57.7  |
| 77.5° | 60.4  | 54.4  | 58.4  | 59.8  | 56.4  |
| 80°   | 58.1  | 51.7  | 61.1  | 60.4  | 54.0  |
| 82.5° | 53.0  | 45.6  | 59.8  | 54.7  | 48.6  |
| 85°   | 43.2  | 34.1  | 67.2  | 48.3  | 35.4  |
| 87.5° | 27.7  | 20.6  | 46.6  | 36.8  | 23.6  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)