

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: P691658

Luminaire Tested: **CRTK2-C018-D-U-T2-7030-RMARROA5**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C018-D-U-T2-7030-RMARROA5  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5532 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type I - Short  
BUG Rating: B3 - U4 - G2

Input Watts (W): 50.4  
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: 24 FT

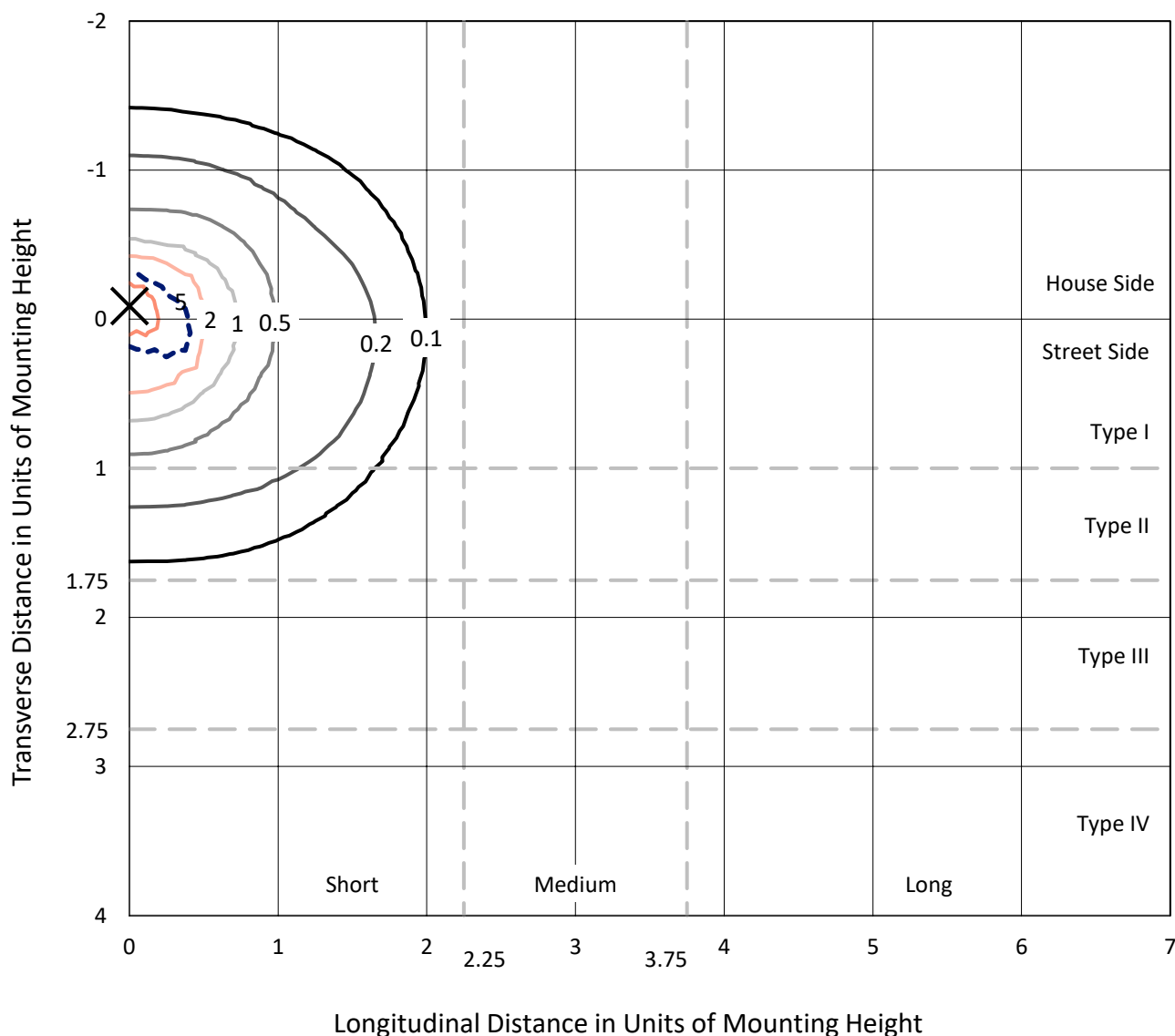


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

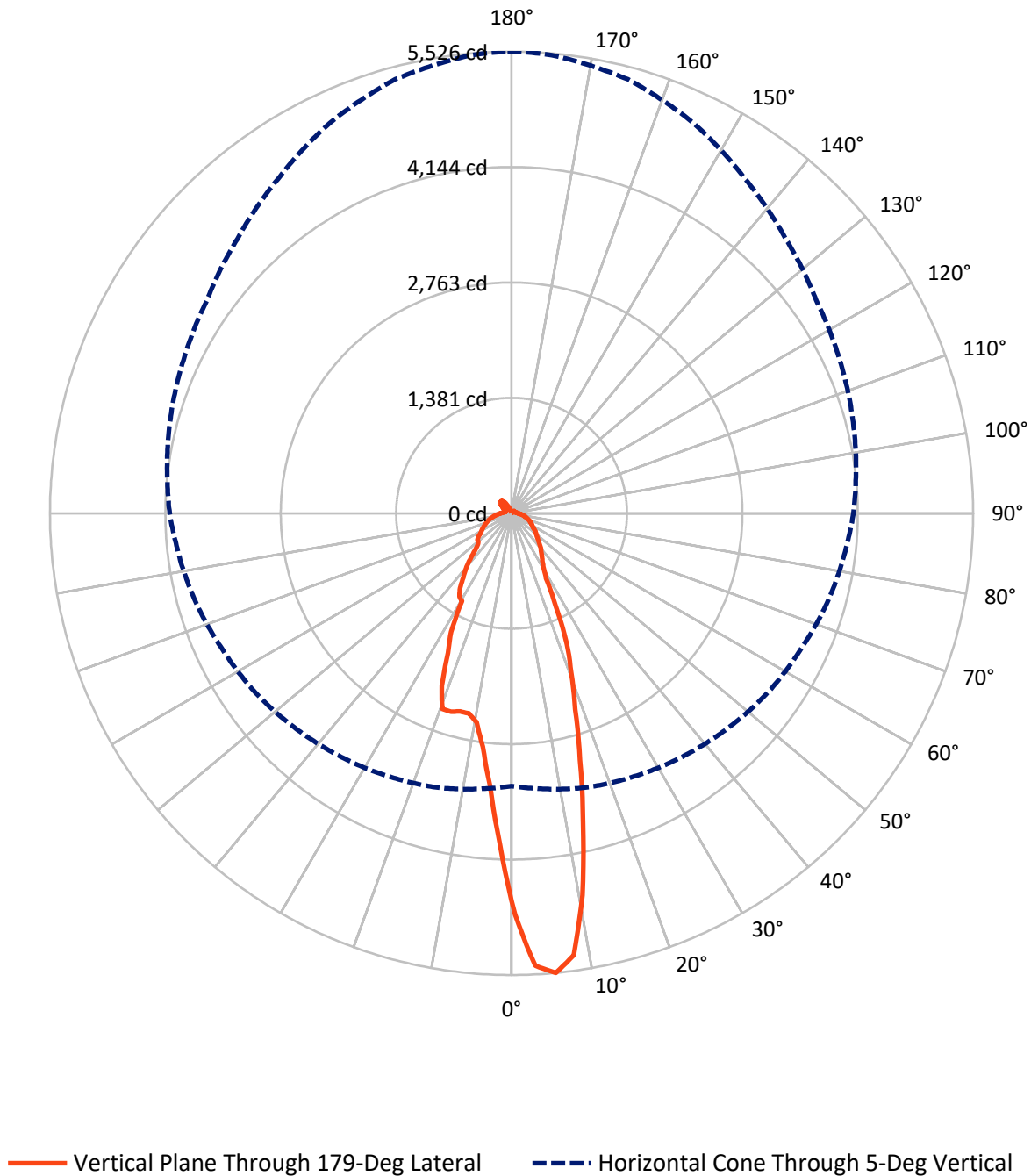


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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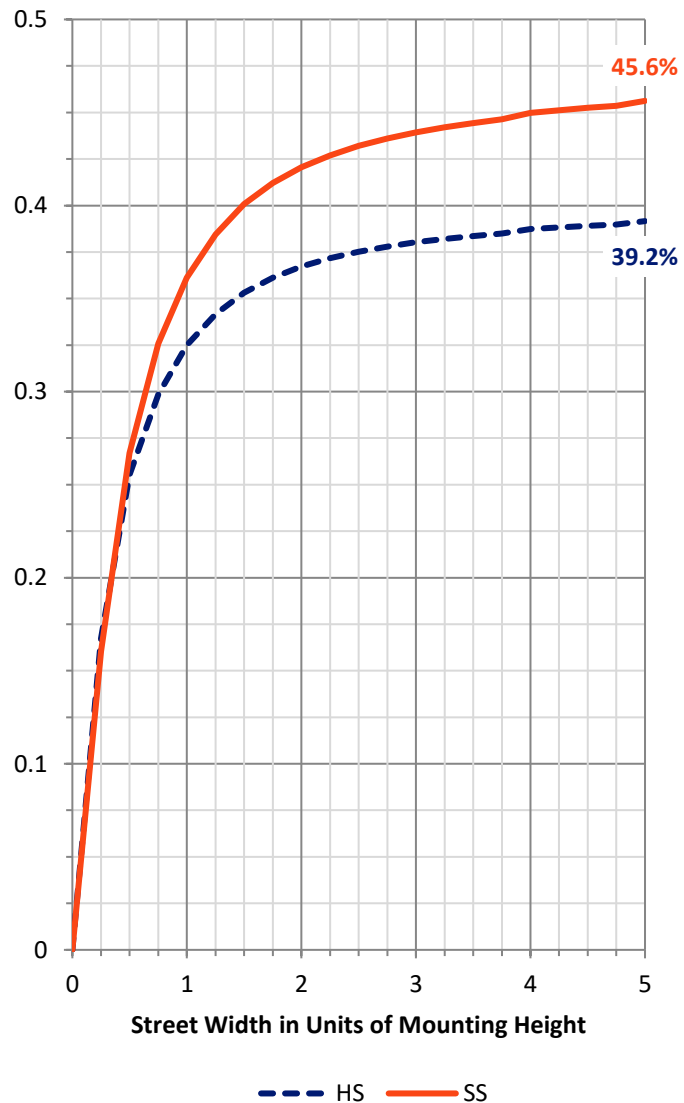
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2226.1   | 270.7  | 2496.8 |
|                    | % Fixture | 40.2     | 4.9    | 45.1   |
| <b>Street Side</b> | Lumens    | 2583.9   | 451.3  | 3035.2 |
|                    | % Fixture | 46.7     | 8.2    | 54.9   |
| <b>Total</b>       | Lumens    | 4810.0   | 722.0  | 5532.0 |
|                    | % Fixture | 86.9     | 13.1   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 375.3  | 6.8       |
| 10°-20°   | 800.7  | 14.5      |
| 20°-30°   | 869.9  | 15.7      |
| 30°-40°   | 643.8  | 11.6      |
| 40°-50°   | 539.2  | 9.7       |
| 50°-60°   | 542.1  | 9.8       |
| 60°-70°   | 461.5  | 8.3       |
| 70°-80°   | 344.8  | 6.2       |
| 80°-90°   | 232.7  | 4.2       |
| 90°-100°  | 139.1  | 2.5       |
| 100°-110° | 80.4   | 1.5       |
| 110°-120° | 74.0   | 1.3       |
| 120°-130° | 107.0  | 1.9       |
| 130°-140° | 146.4  | 2.6       |
| 140°-150° | 120.6  | 2.2       |
| 150°-160° | 48.6   | 0.9       |
| 160°-170° | 6.0    | 0.1       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 4810.0 | 86.9      |
| 0°-180°   | 5532.0 | 100.0     |

**Coefficient of Utilization**



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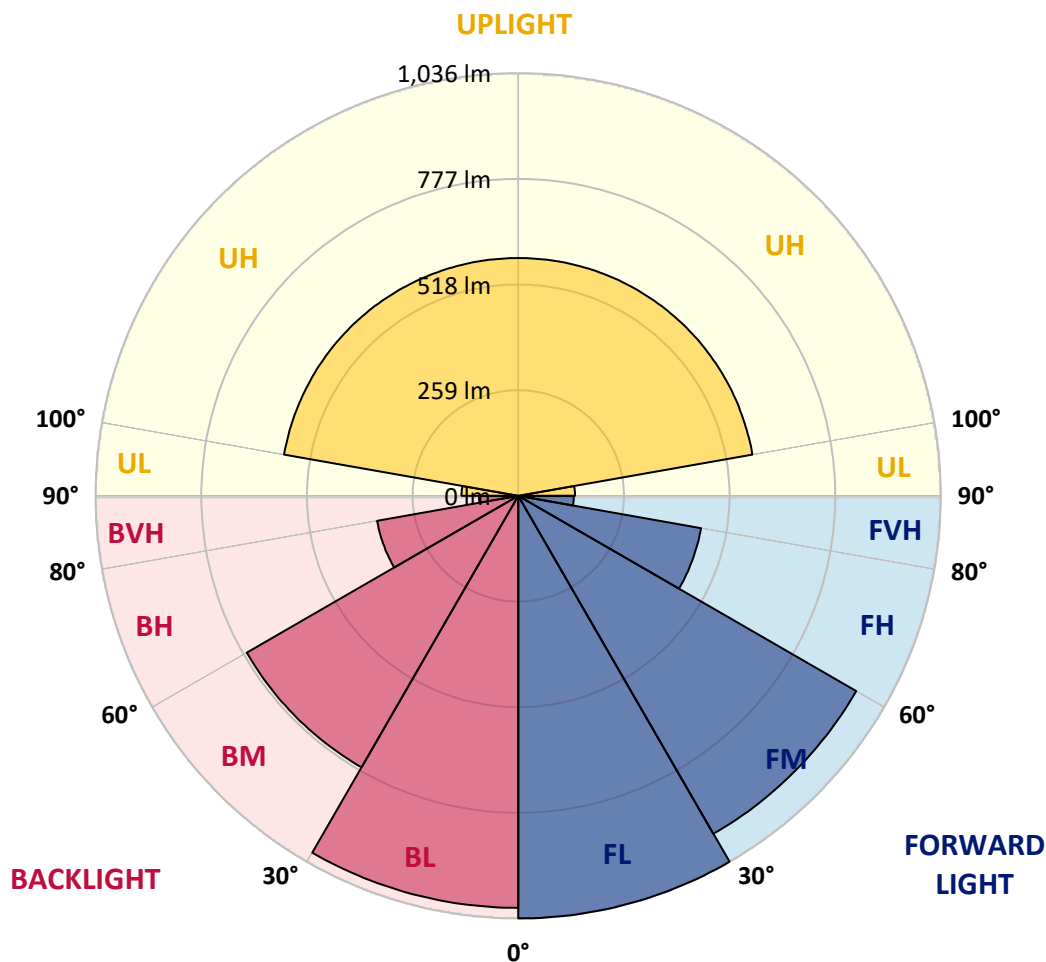
CATALOG NUMBER: CRTK2-C018-D-U-T2-7030-RMARROA5

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |        |
|------|-------------|--------|-----------|-------------------------|---------|--------|
|      |             |        |           | B                       | U       | G      |
| FL   | (0°-30°)    | 1035.9 | 18.7      |                         |         |        |
| FM   | (30°-60°)   | 956.7  | 17.3      |                         |         |        |
| FH   | (60°-80°)   | 455.0  | 8.2       |                         |         | G0/660 |
| FVH  | (80°-90°)   | 136.3  | 2.5       |                         |         | G2/225 |
| BL   | (0°-30°)    | 1010.0 | 18.3      | B3/2500                 |         |        |
| BM   | (30°-60°)   | 768.5  | 13.9      | B1/1000                 |         |        |
| BH   | (60°-80°)   | 351.3  | 6.3       | B1/500                  |         | G1/500 |
| BVH  | (80°-90°)   | 96.5   | 1.7       |                         |         | G1/100 |
| UL   | (90°-100°)  | 139.1  | 2.5       |                         | U3/500  |        |
| UH   | (100°-180°) | 582.9  | 10.5      |                         | U4/1000 |        |

**BUG Rating: B3-U4-G2**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 |
| 2.5°   | 3957.5 | 3979.6 | 4028.4 | 4052.8 | 4077.2 | 4108.3 | 4154.9 | 4190.4 | 4272.5 | 4347.9 | 4378.9 |
| 5°     | 3265.3 | 3305.3 | 3398.4 | 3473.9 | 3558.2 | 3646.9 | 3742.3 | 3826.6 | 3935.3 | 4035.1 | 4092.8 |
| 7.5°   | 2806.2 | 2839.4 | 2950.3 | 3096.8 | 3245.4 | 3369.6 | 3467.2 | 3531.5 | 3580.3 | 3620.3 | 3662.4 |
| 10°    | 2526.6 | 2555.5 | 2666.4 | 2797.3 | 2923.7 | 3039.1 | 3121.2 | 3183.3 | 3201.0 | 3240.9 | 3260.9 |
| 12.5°  | 2446.8 | 2460.1 | 2537.7 | 2628.7 | 2706.3 | 2819.5 | 2917.1 | 2983.6 | 3012.5 | 3047.9 | 3059.0 |
| 15°    | 2449.0 | 2449.0 | 2493.4 | 2551.0 | 2622.0 | 2708.5 | 2817.2 | 2897.1 | 2939.3 | 2959.2 | 2957.0 |
| 17.5°  | 2482.3 | 2480.1 | 2500.0 | 2546.6 | 2606.5 | 2693.0 | 2803.9 | 2886.0 | 2934.8 | 2941.5 | 2934.8 |
| 20°    | 2482.3 | 2484.5 | 2491.2 | 2544.4 | 2602.1 | 2679.7 | 2792.8 | 2861.6 | 2899.3 | 2879.4 | 2857.2 |
| 22.5°  | 2229.4 | 2227.2 | 2284.9 | 2398.0 | 2553.3 | 2715.2 | 2817.2 | 2901.5 | 2910.4 | 2837.2 | 2777.3 |
| 25°    | 1841.2 | 1825.7 | 1858.9 | 1910.0 | 2014.2 | 2202.8 | 2415.7 | 2735.2 | 2925.9 | 2883.8 | 2792.8 |
| 27.5°  | 1597.2 | 1577.2 | 1606.1 | 1583.9 | 1572.8 | 1559.5 | 1546.2 | 1508.4 | 1532.8 | 1555.0 | 1652.6 |
| 30°    | 1204.5 | 1209.0 | 1215.6 | 1228.9 | 1255.6 | 1308.8 | 1364.3 | 1397.5 | 1426.4 | 1484.0 | 1477.4 |
| 32.5°  | 1177.9 | 1175.7 | 1177.9 | 1191.2 | 1204.5 | 1237.8 | 1271.1 | 1288.8 | 1311.0 | 1366.5 | 1353.2 |
| 35°    | 1089.2 | 1084.8 | 1100.3 | 1106.9 | 1104.7 | 1113.6 | 1146.9 | 1166.8 | 1186.8 | 1222.3 | 1209.0 |
| 37.5°  | 958.3  | 962.7  | 996.0  | 1013.8 | 1020.4 | 1040.4 | 1067.0 | 1084.8 | 1109.2 | 1135.8 | 1129.1 |
| 40°    | 860.7  | 858.5  | 894.0  | 918.4  | 933.9  | 965.0  | 1004.9 | 1031.5 | 1071.4 | 1093.6 | 1078.1 |
| 42.5°  | 740.9  | 749.8  | 776.4  | 800.8  | 805.2  | 820.8  | 856.3  | 887.3  | 936.1  | 969.4  | 960.5  |
| 45°    | 623.3  | 630.0  | 652.2  | 672.1  | 687.7  | 707.6  | 734.3  | 760.9  | 800.8  | 827.4  | 825.2  |
| 47.5°  | 550.1  | 556.8  | 574.5  | 598.9  | 621.1  | 650.0  | 676.6  | 703.2  | 740.9  | 760.9  | 754.2  |
| 50°    | 521.3  | 525.7  | 545.7  | 572.3  | 605.6  | 641.1  | 676.6  | 705.4  | 740.9  | 754.2  | 743.1  |
| 52.5°  | 519.1  | 519.1  | 543.5  | 583.4  | 630.0  | 678.8  | 725.4  | 765.3  | 798.6  | 798.6  | 776.4  |
| 55°    | 488.0  | 492.5  | 523.5  | 576.8  | 647.7  | 727.6  | 809.7  | 885.1  | 929.5  | 920.6  | 878.4  |
| 57.5°  | 443.7  | 445.9  | 479.2  | 530.2  | 605.6  | 703.2  | 814.1  | 909.5  | 962.7  | 973.8  | 929.5  |
| 60°    | 417.0  | 419.3  | 441.4  | 490.2  | 554.6  | 632.2  | 734.3  | 809.7  | 862.9  | 896.2  | 860.7  |
| 62.5°  | 394.9  | 394.9  | 417.0  | 450.3  | 503.6  | 561.2  | 618.9  | 669.9  | 712.1  | 736.5  | 716.5  |
| 65°    | 370.5  | 370.5  | 386.0  | 417.0  | 459.2  | 514.6  | 559.0  | 596.7  | 634.4  | 652.2  | 634.4  |
| 67.5°  | 346.1  | 346.1  | 361.6  | 390.4  | 428.1  | 474.7  | 519.1  | 554.6  | 592.3  | 605.6  | 592.3  |
| 70°    | 321.7  | 321.7  | 337.2  | 361.6  | 397.1  | 441.4  | 474.7  | 512.4  | 547.9  | 556.8  | 545.7  |
| 72.5°  | 297.3  | 297.3  | 312.8  | 335.0  | 366.0  | 408.2  | 439.2  | 468.1  | 501.3  | 508.0  | 496.9  |
| 75°    | 275.1  | 275.1  | 286.2  | 308.3  | 337.2  | 374.9  | 405.9  | 432.6  | 459.2  | 459.2  | 450.3  |
| 77.5°  | 250.7  | 252.9  | 261.8  | 281.7  | 308.3  | 343.8  | 372.7  | 397.1  | 419.3  | 419.3  | 408.2  |
| 80°    | 226.3  | 228.5  | 237.4  | 255.1  | 279.5  | 312.8  | 339.4  | 361.6  | 381.5  | 381.5  | 370.5  |
| 82.5°  | 201.9  | 204.1  | 213.0  | 228.5  | 250.7  | 281.7  | 308.3  | 330.5  | 348.3  | 346.1  | 335.0  |
| 85°    | 179.7  | 181.9  | 188.6  | 201.9  | 221.8  | 252.9  | 277.3  | 297.3  | 312.8  | 310.6  | 301.7  |
| 87.5°  | 157.5  | 159.7  | 166.4  | 177.5  | 195.2  | 224.0  | 248.5  | 266.2  | 279.5  | 277.3  | 268.4  |
| 90°    | 137.5  | 137.5  | 144.2  | 155.3  | 170.8  | 195.2  | 217.4  | 232.9  | 246.2  | 241.8  | 232.9  |
| 92.5°  | 119.8  | 122.0  | 126.4  | 135.3  | 148.6  | 170.8  | 190.8  | 204.1  | 217.4  | 215.2  | 206.3  |
| 95°    | 106.5  | 106.5  | 110.9  | 117.6  | 128.7  | 146.4  | 166.4  | 177.5  | 186.3  | 186.3  | 179.7  |
| 97.5°  | 93.2   | 95.4   | 97.6   | 102.0  | 110.9  | 124.2  | 139.8  | 150.8  | 157.5  | 157.5  | 153.1  |
| 100°   | 84.3   | 86.5   | 86.5   | 91.0   | 95.4   | 104.3  | 115.4  | 124.2  | 130.9  | 130.9  | 128.7  |
| 102.5° | 79.9   | 79.9   | 79.9   | 82.1   | 84.3   | 88.7   | 95.4   | 99.8   | 104.3  | 106.5  | 104.3  |
| 105°   | 75.4   | 75.4   | 75.4   | 77.6   | 77.6   | 82.1   | 84.3   | 88.7   | 91.0   | 91.0   | 88.7   |
| 107.5° | 73.2   | 73.2   | 75.4   | 75.4   | 75.4   | 77.6   | 82.1   | 82.1   | 84.3   | 82.1   | 82.1   |
| 110°   | 75.4   | 75.4   | 75.4   | 75.4   | 75.4   | 77.6   | 79.9   | 79.9   | 79.9   | 79.9   | 77.6   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 77.6  | 77.6  | 77.6  | 77.6  | 79.9  | 79.9  | 79.9  | 82.1  | 82.1  | 79.9  | 79.9  |
| 115°   | 84.3  | 84.3  | 84.3  | 84.3  | 84.3  | 86.5  | 86.5  | 86.5  | 86.5  | 84.3  | 82.1  |
| 117.5° | 91.0  | 91.0  | 91.0  | 93.2  | 93.2  | 95.4  | 93.2  | 95.4  | 93.2  | 91.0  | 91.0  |
| 120°   | 102.0 | 102.0 | 104.3 | 106.5 | 108.7 | 108.7 | 106.5 | 108.7 | 108.7 | 104.3 | 102.0 |
| 122.5° | 115.4 | 115.4 | 117.6 | 124.2 | 126.4 | 128.7 | 126.4 | 126.4 | 126.4 | 122.0 | 119.8 |
| 125°   | 128.7 | 130.9 | 135.3 | 144.2 | 150.8 | 155.3 | 150.8 | 153.1 | 153.1 | 146.4 | 144.2 |
| 127.5° | 144.2 | 146.4 | 155.3 | 168.6 | 179.7 | 184.1 | 181.9 | 184.1 | 186.3 | 175.2 | 170.8 |
| 130°   | 159.7 | 159.7 | 173.0 | 193.0 | 208.5 | 215.2 | 217.4 | 219.6 | 221.8 | 210.7 | 201.9 |
| 132.5° | 173.0 | 173.0 | 190.8 | 215.2 | 235.1 | 246.2 | 250.7 | 255.1 | 259.5 | 244.0 | 232.9 |
| 135°   | 181.9 | 184.1 | 206.3 | 235.1 | 259.5 | 275.1 | 281.7 | 286.2 | 292.8 | 275.1 | 261.8 |
| 137.5° | 188.6 | 193.0 | 215.2 | 246.2 | 272.9 | 295.0 | 308.3 | 315.0 | 319.4 | 301.7 | 283.9 |
| 140°   | 190.8 | 193.0 | 217.4 | 248.5 | 275.1 | 299.5 | 319.4 | 330.5 | 332.7 | 315.0 | 297.3 |
| 142.5° | 184.1 | 188.6 | 210.7 | 241.8 | 268.4 | 295.0 | 317.2 | 328.3 | 330.5 | 315.0 | 297.3 |
| 145°   | 175.2 | 177.5 | 197.4 | 226.3 | 252.9 | 281.7 | 306.1 | 317.2 | 317.2 | 303.9 | 286.2 |
| 147.5° | 159.7 | 161.9 | 179.7 | 204.1 | 230.7 | 259.5 | 283.9 | 295.0 | 297.3 | 283.9 | 268.4 |
| 150°   | 137.5 | 139.8 | 153.1 | 173.0 | 199.6 | 228.5 | 250.7 | 264.0 | 264.0 | 250.7 | 239.6 |
| 152.5° | 110.9 | 113.1 | 124.2 | 139.8 | 161.9 | 188.6 | 208.5 | 221.8 | 221.8 | 213.0 | 199.6 |
| 155°   | 86.5  | 86.5  | 95.4  | 108.7 | 124.2 | 144.2 | 159.7 | 170.8 | 173.0 | 164.2 | 155.3 |
| 157.5° | 62.1  | 62.1  | 68.8  | 79.9  | 93.2  | 108.7 | 119.8 | 128.7 | 128.7 | 122.0 | 117.6 |
| 160°   | 42.1  | 42.1  | 46.6  | 53.2  | 62.1  | 73.2  | 82.1  | 91.0  | 91.0  | 86.5  | 82.1  |
| 162.5° | 22.2  | 22.2  | 26.6  | 31.1  | 37.7  | 46.6  | 51.0  | 57.7  | 57.7  | 55.5  | 53.2  |
| 165°   | 6.7   | 6.7   | 8.9   | 11.1  | 15.5  | 20.0  | 22.2  | 26.6  | 28.8  | 26.6  | 24.4  |
| 167.5° | 0.0   | 0.0   | 2.2   | 2.2   | 2.2   | 2.2   | 4.4   | 6.7   | 6.7   | 6.7   | 6.7   |
| 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):**

|        | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 179°   | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 | 4800.4 |
| 2.5°   | 4412.2 | 4552.0 | 4678.4 | 4809.3 | 4971.2 | 5113.2 | 5266.3 | 5375.0 | 5421.5 | 5421.5 | 5439.3 |
| 5°     | 4134.9 | 4232.5 | 4334.6 | 4449.9 | 4642.9 | 4880.3 | 5153.1 | 5377.2 | 5505.8 | 5525.8 | 5523.6 |
| 7.5°   | 3675.7 | 3742.3 | 3846.5 | 3975.2 | 4152.7 | 4365.6 | 4716.1 | 5066.6 | 5299.5 | 5341.7 | 5326.1 |
| 10°    | 3272.0 | 3334.1 | 3396.2 | 3445.0 | 3571.5 | 3740.1 | 3997.4 | 4339.0 | 4607.4 | 4649.6 | 4616.3 |
| 12.5°  | 3065.7 | 3085.7 | 3083.4 | 3112.3 | 3163.3 | 3247.6 | 3378.5 | 3575.9 | 3760.0 | 3800.0 | 3771.1 |
| 15°    | 2957.0 | 2928.2 | 2883.8 | 2832.8 | 2828.3 | 2841.6 | 2874.9 | 2954.8 | 3032.4 | 3065.7 | 3043.5 |
| 17.5°  | 2912.6 | 2843.9 | 2752.9 | 2653.1 | 2586.5 | 2524.4 | 2482.3 | 2455.7 | 2466.8 | 2469.0 | 2451.2 |
| 20°    | 2808.4 | 2726.3 | 2579.9 | 2437.9 | 2331.4 | 2222.7 | 2129.6 | 2060.8 | 2049.7 | 2038.6 | 2025.3 |
| 22.5°  | 2690.8 | 2551.0 | 2375.8 | 2202.8 | 2045.3 | 1901.1 | 1796.8 | 1714.7 | 1683.7 | 1694.8 | 1688.1 |
| 25°    | 2666.4 | 2433.5 | 2220.5 | 1941.0 | 1741.4 | 1579.4 | 1384.2 | 1251.1 | 1191.2 | 1224.5 | 1202.3 |
| 27.5°  | 1599.4 | 1606.1 | 1486.3 | 1317.7 | 1173.5 | 1078.1 | 991.6  | 920.6  | 880.7  | 880.7  | 885.1  |
| 30°    | 1448.6 | 1384.2 | 1304.4 | 1200.1 | 1073.7 | 978.3  | 882.9  | 805.2  | 763.1  | 752.0  | 756.4  |
| 32.5°  | 1324.3 | 1280.0 | 1204.5 | 1104.7 | 989.4  | 891.8  | 791.9  | 720.9  | 681.0  | 678.8  | 676.6  |
| 35°    | 1191.2 | 1144.6 | 1082.5 | 996.0  | 896.2  | 805.2  | 718.7  | 656.6  | 621.1  | 623.3  | 623.3  |
| 37.5°  | 1100.3 | 1058.1 | 1002.7 | 920.6  | 829.6  | 738.7  | 661.1  | 603.4  | 574.5  | 574.5  | 572.3  |
| 40°    | 1053.7 | 1004.9 | 945.0  | 869.6  | 785.3  | 689.9  | 616.7  | 561.2  | 536.8  | 536.8  | 534.6  |
| 42.5°  | 951.7  | 909.5  | 869.6  | 791.9  | 707.6  | 630.0  | 561.2  | 512.4  | 488.0  | 488.0  | 488.0  |
| 45°    | 807.5  | 783.1  | 752.0  | 698.8  | 630.0  | 565.7  | 508.0  | 461.4  | 441.4  | 439.2  | 439.2  |
| 47.5°  | 745.4  | 718.7  | 681.0  | 632.2  | 576.8  | 516.9  | 461.4  | 428.1  | 408.2  | 408.2  | 408.2  |
| 50°    | 727.6  | 696.5  | 645.5  | 587.9  | 530.2  | 476.9  | 428.1  | 397.1  | 379.3  | 379.3  | 381.5  |
| 52.5°  | 752.0  | 701.0  | 632.2  | 561.2  | 501.3  | 441.4  | 399.3  | 368.2  | 354.9  | 354.9  | 352.7  |
| 55°    | 836.3  | 740.9  | 641.1  | 554.6  | 479.2  | 414.8  | 370.5  | 337.2  | 321.7  | 321.7  | 321.7  |
| 57.5°  | 882.9  | 769.8  | 647.7  | 545.7  | 459.2  | 394.9  | 348.3  | 312.8  | 297.3  | 297.3  | 297.3  |
| 60°    | 829.6  | 736.5  | 621.1  | 528.0  | 443.7  | 377.1  | 328.3  | 295.0  | 279.5  | 277.3  | 275.1  |
| 62.5°  | 694.3  | 636.7  | 554.6  | 476.9  | 410.4  | 352.7  | 312.8  | 279.5  | 264.0  | 264.0  | 261.8  |
| 65°    | 618.9  | 570.1  | 499.1  | 432.6  | 377.1  | 328.3  | 290.6  | 264.0  | 248.5  | 246.2  | 246.2  |
| 67.5°  | 576.8  | 532.4  | 461.4  | 399.3  | 348.3  | 303.9  | 268.4  | 244.0  | 232.9  | 228.5  | 228.5  |
| 70°    | 530.2  | 481.4  | 419.3  | 363.8  | 317.2  | 277.3  | 248.5  | 224.0  | 213.0  | 210.7  | 208.5  |
| 72.5°  | 483.6  | 439.2  | 381.5  | 328.3  | 286.2  | 252.9  | 226.3  | 204.1  | 193.0  | 190.8  | 190.8  |
| 75°    | 434.8  | 392.6  | 337.2  | 292.8  | 257.3  | 226.3  | 201.9  | 184.1  | 175.2  | 173.0  | 170.8  |
| 77.5°  | 394.9  | 357.1  | 303.9  | 261.8  | 228.5  | 204.1  | 181.9  | 166.4  | 157.5  | 157.5  | 155.3  |
| 80°    | 357.1  | 321.7  | 270.6  | 232.9  | 204.1  | 179.7  | 161.9  | 148.6  | 142.0  | 139.8  | 139.8  |
| 82.5°  | 321.7  | 286.2  | 239.6  | 206.3  | 179.7  | 159.7  | 142.0  | 130.9  | 124.2  | 124.2  | 124.2  |
| 85°    | 288.4  | 255.1  | 213.0  | 181.9  | 157.5  | 139.8  | 124.2  | 113.1  | 108.7  | 106.5  | 108.7  |
| 87.5°  | 255.1  | 224.0  | 188.6  | 159.7  | 137.5  | 119.8  | 106.5  | 97.6   | 93.2   | 93.2   | 93.2   |
| 90°    | 224.0  | 195.2  | 161.9  | 135.3  | 117.6  | 102.0  | 91.0   | 82.1   | 79.9   | 77.6   | 77.6   |
| 92.5°  | 197.4  | 173.0  | 144.2  | 122.0  | 104.3  | 93.2   | 82.1   | 75.4   | 71.0   | 71.0   | 71.0   |
| 95°    | 173.0  | 150.8  | 128.7  | 108.7  | 95.4   | 84.3   | 75.4   | 68.8   | 66.5   | 66.5   | 66.5   |
| 97.5°  | 148.6  | 130.9  | 113.1  | 97.6   | 86.5   | 77.6   | 68.8   | 64.3   | 62.1   | 59.9   | 62.1   |
| 100°   | 124.2  | 110.9  | 97.6   | 86.5   | 77.6   | 68.8   | 62.1   | 57.7   | 55.5   | 55.5   | 55.5   |
| 102.5° | 99.8   | 93.2   | 82.1   | 73.2   | 66.5   | 62.1   | 55.5   | 51.0   | 48.8   | 48.8   | 48.8   |
| 105°   | 86.5   | 79.9   | 73.2   | 66.5   | 62.1   | 55.5   | 51.0   | 46.6   | 44.4   | 44.4   | 44.4   |
| 107.5° | 79.9   | 75.4   | 68.8   | 64.3   | 57.7   | 53.2   | 48.8   | 42.1   | 39.9   | 39.9   | 39.9   |
| 110°   | 77.6   | 73.2   | 68.8   | 62.1   | 57.7   | 53.2   | 48.8   | 39.9   | 37.7   | 37.7   | 37.7   |

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**CANDELA DISTRIBUTION (continued):**

|        | 95°   | 105°  | 115°  | 125°  | 135°  | 145° | 155° | 165° | 175° | 179° | 180° |
|--------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 112.5° | 77.6  | 73.2  | 68.8  | 64.3  | 59.9  | 53.2 | 48.8 | 39.9 | 35.5 | 35.5 | 35.5 |
| 115°   | 82.1  | 77.6  | 73.2  | 68.8  | 62.1  | 55.5 | 51.0 | 39.9 | 35.5 | 35.5 | 35.5 |
| 117.5° | 88.7  | 84.3  | 79.9  | 73.2  | 66.5  | 59.9 | 51.0 | 39.9 | 37.7 | 37.7 | 37.7 |
| 120°   | 99.8  | 95.4  | 88.7  | 82.1  | 73.2  | 64.3 | 55.5 | 42.1 | 35.5 | 37.7 | 37.7 |
| 122.5° | 115.4 | 110.9 | 102.0 | 91.0  | 82.1  | 71.0 | 57.7 | 44.4 | 33.3 | 37.7 | 37.7 |
| 125°   | 137.5 | 130.9 | 117.6 | 104.3 | 91.0  | 77.6 | 62.1 | 46.6 | 35.5 | 39.9 | 39.9 |
| 127.5° | 161.9 | 153.1 | 135.3 | 117.6 | 102.0 | 84.3 | 66.5 | 48.8 | 37.7 | 39.9 | 39.9 |
| 130°   | 190.8 | 175.2 | 153.1 | 130.9 | 110.9 | 91.0 | 71.0 | 51.0 | 39.9 | 39.9 | 39.9 |
| 132.5° | 219.6 | 197.4 | 168.6 | 144.2 | 119.8 | 95.4 | 73.2 | 51.0 | 39.9 | 39.9 | 39.9 |
| 135°   | 244.0 | 217.4 | 184.1 | 153.1 | 124.2 | 97.6 | 75.4 | 51.0 | 39.9 | 39.9 | 39.9 |
| 137.5° | 266.2 | 230.7 | 193.0 | 157.5 | 126.4 | 97.6 | 73.2 | 51.0 | 37.7 | 37.7 | 37.7 |
| 140°   | 277.3 | 237.4 | 197.4 | 157.5 | 124.2 | 95.4 | 68.8 | 46.6 | 35.5 | 35.5 | 35.5 |
| 142.5° | 277.3 | 235.1 | 193.0 | 153.1 | 119.8 | 91.0 | 64.3 | 44.4 | 31.1 | 33.3 | 33.3 |
| 145°   | 268.4 | 226.3 | 184.1 | 144.2 | 110.9 | 82.1 | 57.7 | 37.7 | 28.8 | 28.8 | 28.8 |
| 147.5° | 248.5 | 208.5 | 168.6 | 130.9 | 99.8  | 71.0 | 51.0 | 33.3 | 24.4 | 22.2 | 24.4 |
| 150°   | 221.8 | 184.1 | 146.4 | 113.1 | 84.3  | 59.9 | 42.1 | 26.6 | 20.0 | 20.0 | 20.0 |
| 152.5° | 186.3 | 153.1 | 122.0 | 93.2  | 66.5  | 46.6 | 31.1 | 20.0 | 15.5 | 15.5 | 15.5 |
| 155°   | 146.4 | 119.8 | 95.4  | 71.0  | 51.0  | 35.5 | 24.4 | 15.5 | 11.1 | 11.1 | 11.1 |
| 157.5° | 110.9 | 91.0  | 71.0  | 51.0  | 37.7  | 26.6 | 17.7 | 11.1 | 8.9  | 8.9  | 8.9  |
| 160°   | 77.6  | 62.1  | 48.8  | 35.5  | 24.4  | 17.7 | 11.1 | 6.7  | 4.4  | 4.4  | 4.4  |
| 162.5° | 48.8  | 39.9  | 31.1  | 20.0  | 15.5  | 11.1 | 6.7  | 4.4  | 2.2  | 2.2  | 2.2  |
| 165°   | 22.2  | 20.0  | 13.3  | 8.9   | 6.7   | 4.4  | 2.2  | 2.2  | 0.0  | 0.0  | 0.0  |
| 167.5° | 6.7   | 4.4   | 4.4   | 2.2   | 2.2   | 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)