

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge  
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 769093

Luminaire Tested: **CLB85QL3C**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 769093  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CLB85QL3C  
Description: Architectural Post Top Luminaire - TYPE III CUTOFF  
Light Source: 85 WATT PHILIPS QL INDUCTION LAMP  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 6000 (1 lamp)  
Luminaire Lumens: 2567.4 lumens  
Efficiency: 42.8%  
Efficacy: 30.2 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type III - Short - Cutoff  
BUG Rating: B1 - U2 - G1

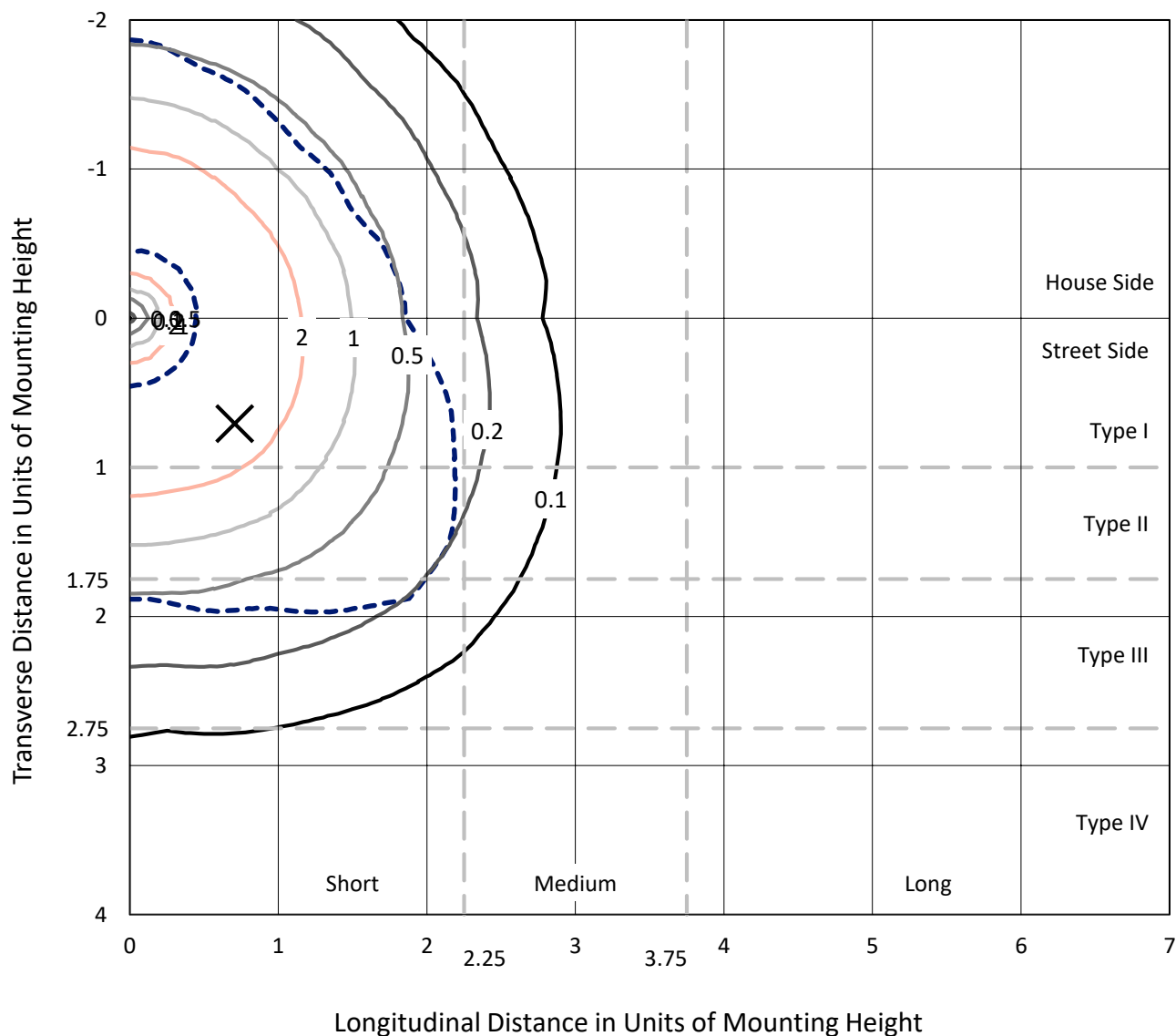
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

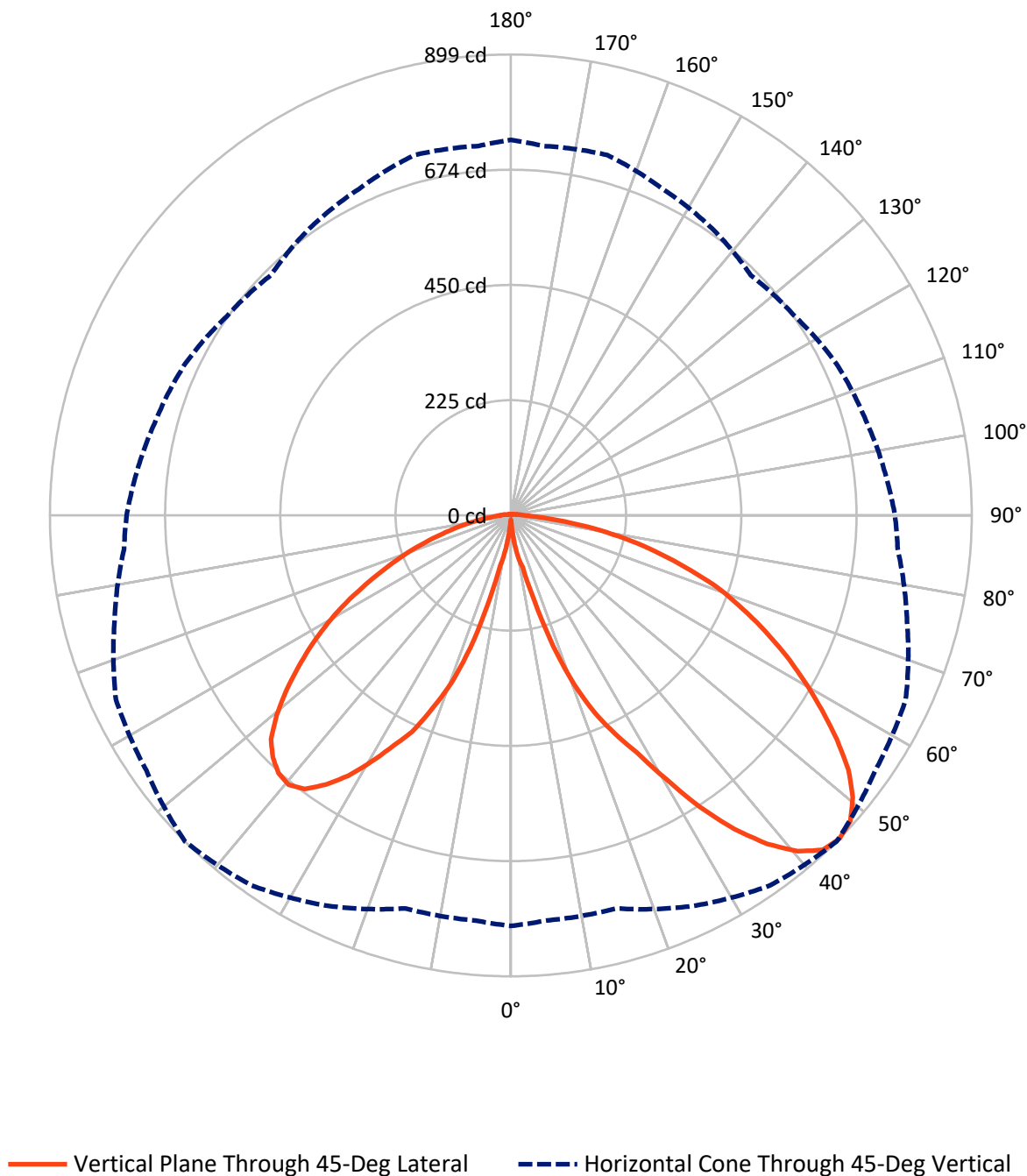
× Max cd  
 --- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc  
 Type III - Short - Cutoff

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## Luminous Intensity Polar Plot



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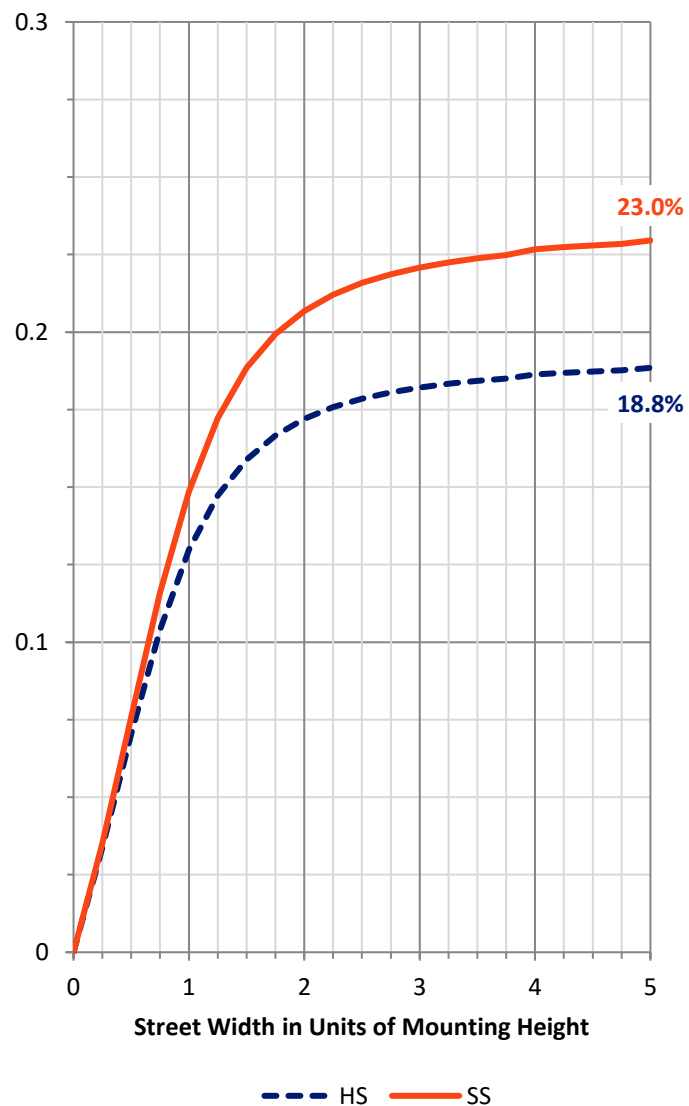
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total  |
|--------------------|--------|----------|--------|--------|
| <b>House Side</b>  | Lumens | 1143.6   | 15.2   | 1158.8 |
|                    | % Lamp | 19.1     | 0.3    | 19.3   |
| <b>Street Side</b> | Lumens | 1391.4   | 17.3   | 1408.6 |
|                    | % Lamp | 23.2     | 0.3    | 23.5   |
| <b>Total</b>       | Lumens | 2534.9   | 32.5   | 2567.4 |
|                    | % Lamp | 42.2     | 0.5    | 42.8   |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 4.5    | 0.2       | 0.1    |
| 10°-20°   | 57.6   | 2.2       | 1.0    |
| 20°-30°   | 217.2  | 8.5       | 3.6    |
| 30°-40°   | 431.3  | 16.8      | 7.2    |
| 40°-50°   | 585.5  | 22.8      | 9.8    |
| 50°-60°   | 556.8  | 21.7      | 9.3    |
| 60°-70°   | 402.8  | 15.7      | 6.7    |
| 70°-80°   | 216.6  | 8.4       | 3.6    |
| 80°-90°   | 62.6   | 2.4       | 1.0    |
| 90°-100°  | 17.7   | 0.7       | 0.3    |
| 100°-110° | 8.4    | 0.3       | 0.1    |
| 110°-120° | 4.1    | 0.2       | 0.1    |
| 120°-130° | 2.3    | 0.1       | 0.0    |
| 130°-140° | 0.9    | 0.0       | 0.0    |
| 140°-150° | 0.2    | 0.0       | 0.0    |
| 150°-160° | 0.0    | 0.0       | 0.0    |
| 160°-170° | 0.0    | 0.0       | 0.0    |
| 170°-180° | 0.0    | 0.0       | 0.0    |
| 0°-90°    | 2534.9 | 98.7      | 42.2   |
| 0°-180°   | 2567.4 | 100.0     | 42.8   |

**Coefficient of Utilization**



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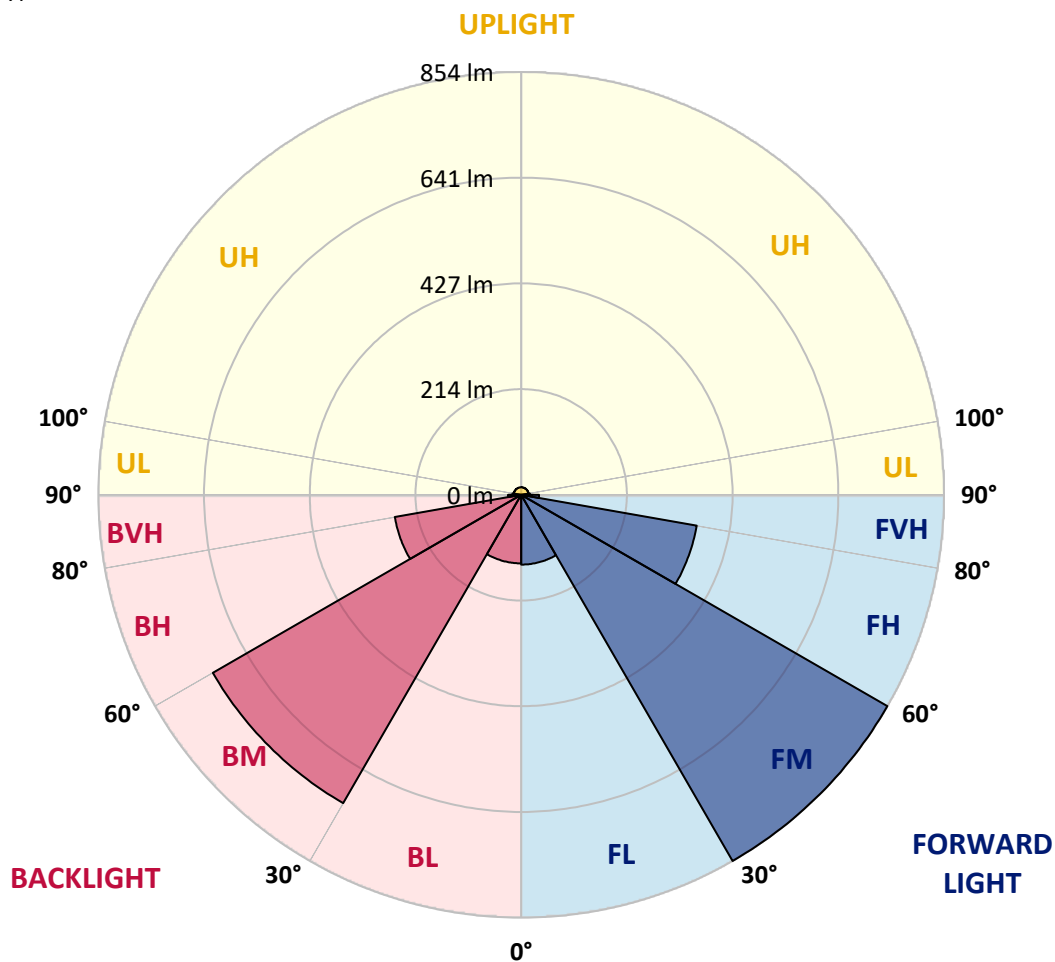
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens | % Lamp | Zone Rating/Lumen Limit |       |        |
|---------------|-------------|--------|--------|-------------------------|-------|--------|
|               |             |        |        | B                       | U     | G      |
| FL            | (0°-30°)    | 140.9  | 2.3    |                         |       |        |
| FM            | (30°-60°)   | 854.3  | 14.2   |                         |       |        |
| FH            | (60°-80°)   | 360.1  | 6.0    |                         |       | G0/660 |
| FVH           | (80°-90°)   | 36.0   | 0.6    |                         |       | G1/100 |
| BL            | (0°-30°)    | 138.5  | 2.3    | B1/500                  |       |        |
| BM            | (30°-60°)   | 719.3  | 12.0   | B1/1000                 |       |        |
| BH            | (60°-80°)   | 259.3  | 4.3    | B1/500                  |       | G1/500 |
| BVH           | (80°-90°)   | 26.5   | 0.4    |                         |       | G1/100 |
| UL            | (90°-100°)  | 17.7   | 0.3    |                         | U2/50 |        |
| UH            | (100°-180°) | 15.2   | 0.3    |                         | U2/50 |        |
| Trapped Light |             | 3432.6 | 57.2   |                         |       |        |

**BUG Rating: B1-U2-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 8.7   | 8.7   | 8.7   | 8.7   | 8.7   | 8.7   | 8.7   | 8.7   | 8.7   | 8.7   | 8.7   |
| 2.5°  | 10.8  | 10.8  | 10.8  | 10.3  | 9.2   | 9.2   | 9.2   | 9.7   | 9.7   | 8.7   | 9.7   |
| 5°    | 42.2  | 40.6  | 39.5  | 39.0  | 37.9  | 36.2  | 34.1  | 33.0  | 31.9  | 30.3  | 29.8  |
| 7.5°  | 60.6  | 60.1  | 61.1  | 60.1  | 59.0  | 60.1  | 58.4  | 57.3  | 55.7  | 55.7  | 54.6  |
| 10°   | 88.7  | 89.3  | 89.3  | 88.7  | 88.2  | 87.1  | 85.5  | 83.9  | 81.7  | 80.1  | 80.1  |
| 12.5° | 111.4 | 109.8 | 109.3 | 109.3 | 104.4 | 103.9 | 100.6 | 100.6 | 100.1 | 100.1 | 99.0  |
| 15°   | 175.3 | 176.9 | 178.0 | 178.5 | 176.4 | 173.7 | 173.1 | 173.7 | 169.9 | 166.1 | 166.1 |
| 17.5° | 260.8 | 259.7 | 262.9 | 268.9 | 267.8 | 268.9 | 266.2 | 264.5 | 255.9 | 251.6 | 251.0 |
| 20°   | 339.7 | 337.6 | 340.8 | 347.9 | 348.4 | 350.6 | 348.4 | 344.1 | 337.6 | 338.1 | 337.0 |
| 22.5° | 406.8 | 407.4 | 403.6 | 411.2 | 413.3 | 417.7 | 412.8 | 409.5 | 408.5 | 407.9 | 409.0 |
| 25°   | 467.4 | 466.3 | 467.4 | 465.8 | 468.0 | 471.2 | 467.4 | 470.1 | 477.7 | 479.3 | 479.3 |
| 27.5° | 509.6 | 514.5 | 521.0 | 521.5 | 526.9 | 523.1 | 521.5 | 512.9 | 528.0 | 533.4 | 538.8 |
| 30°   | 573.5 | 574.0 | 572.9 | 582.7 | 597.8 | 596.7 | 589.7 | 578.9 | 584.8 | 597.3 | 604.3 |
| 32.5° | 636.2 | 637.3 | 640.0 | 651.4 | 669.2 | 679.0 | 670.3 | 660.0 | 649.7 | 663.3 | 670.3 |
| 35°   | 688.2 | 686.0 | 693.6 | 708.7 | 735.8 | 751.4 | 743.3 | 733.1 | 703.3 | 708.2 | 711.4 |
| 37.5° | 730.3 | 727.6 | 738.5 | 759.6 | 793.6 | 813.1 | 806.1 | 789.3 | 750.9 | 742.8 | 736.8 |
| 40°   | 776.9 | 763.3 | 770.4 | 805.0 | 842.3 | 861.3 | 848.3 | 822.3 | 783.9 | 760.1 | 742.8 |
| 42.5° | 798.5 | 789.3 | 788.8 | 838.0 | 871.5 | 892.1 | 867.8 | 843.4 | 801.8 | 764.4 | 748.7 |
| 45°   | 800.7 | 793.1 | 793.6 | 840.7 | 881.3 | 899.1 | 867.8 | 849.9 | 800.1 | 757.4 | 749.3 |
| 47.5° | 786.6 | 779.6 | 780.7 | 827.2 | 867.8 | 891.0 | 853.2 | 837.5 | 786.6 | 738.5 | 732.0 |
| 50°   | 756.3 | 750.9 | 752.5 | 803.4 | 839.1 | 864.5 | 827.2 | 811.5 | 763.3 | 710.3 | 694.6 |
| 52.5° | 704.4 | 709.2 | 711.4 | 763.9 | 802.8 | 824.5 | 797.4 | 772.5 | 730.9 | 672.5 | 654.6 |
| 55°   | 644.9 | 652.4 | 661.6 | 710.9 | 758.5 | 771.5 | 756.9 | 725.5 | 687.6 | 627.6 | 604.8 |
| 57.5° | 577.8 | 582.7 | 603.2 | 642.2 | 705.5 | 715.2 | 707.6 | 675.2 | 635.7 | 575.6 | 549.1 |
| 60°   | 507.5 | 508.0 | 543.2 | 571.3 | 646.0 | 658.4 | 652.4 | 618.9 | 579.4 | 519.9 | 489.1 |
| 62.5° | 432.8 | 435.0 | 480.4 | 504.8 | 578.3 | 602.7 | 598.3 | 558.9 | 523.7 | 461.5 | 427.4 |
| 65°   | 365.7 | 366.8 | 417.7 | 444.2 | 509.6 | 545.9 | 543.2 | 502.0 | 467.4 | 405.2 | 368.4 |
| 67.5° | 313.8 | 306.7 | 355.4 | 387.4 | 443.6 | 488.5 | 486.4 | 446.3 | 409.0 | 348.4 | 312.2 |
| 70°   | 269.4 | 259.7 | 300.3 | 333.8 | 385.7 | 433.3 | 427.4 | 395.5 | 352.7 | 294.3 | 260.2 |
| 72.5° | 231.5 | 217.5 | 247.2 | 281.3 | 328.9 | 367.9 | 363.0 | 335.4 | 296.5 | 242.9 | 217.5 |
| 75°   | 192.6 | 175.8 | 198.0 | 229.4 | 275.9 | 303.0 | 298.6 | 273.2 | 237.5 | 194.2 | 174.7 |
| 77.5° | 154.7 | 139.0 | 153.6 | 180.7 | 227.8 | 240.7 | 235.9 | 213.7 | 182.9 | 146.6 | 134.7 |
| 80°   | 116.9 | 101.2 | 114.7 | 132.0 | 171.0 | 176.4 | 170.4 | 153.1 | 132.0 | 103.9 | 96.8  |
| 82.5° | 74.7  | 66.5  | 74.7  | 86.0  | 112.0 | 115.2 | 113.1 | 101.7 | 88.7  | 71.4  | 68.2  |
| 85°   | 45.4  | 42.7  | 46.5  | 53.6  | 66.0  | 68.7  | 67.6  | 61.7  | 56.8  | 47.6  | 46.0  |
| 87.5° | 30.3  | 30.3  | 31.9  | 33.5  | 37.3  | 39.0  | 37.3  | 35.2  | 33.5  | 30.8  | 30.8  |
| 90°   | 22.7  | 22.7  | 22.7  | 23.3  | 23.3  | 24.3  | 23.8  | 23.3  | 23.3  | 22.7  | 22.2  |
| 95°   | 16.2  | 16.2  | 16.2  | 16.8  | 16.2  | 16.2  | 16.2  | 16.2  | 15.7  | 16.2  | 15.1  |
| 105°  | 7.6   | 7.6   | 7.6   | 7.6   | 7.0   | 6.5   | 6.5   | 6.5   | 6.5   | 7.0   | 6.5   |
| 115°  | 3.2   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 3.8   | 3.2   | 3.2   | 3.2   | 3.2   |
| 125°  | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.8   | 3.2   | 3.2   | 3.2   | 3.2   | 2.7   |
| 135°  | 2.2   | 1.6   | 1.1   | 1.1   | 0.5   | 1.6   | 1.1   | 0.5   | 1.1   | 0.5   | 1.1   |
| 145°  | 1.1   | 0.0   | 0.5   | 0.5   | 0.0   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   |
| 155°  | 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   |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 175° | 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°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 8.7   | 8.7   | 8.7   | 8.7   | 8.7   | 8.7   | 8.7   | 8.7   | 8.7   | 8.7   |
| 2.5°  | 8.7   | 9.2   | 9.2   | 9.2   | 9.7   | 8.7   | 9.2   | 8.7   | 8.7   | 9.7   |
| 5°    | 29.8  | 29.2  | 28.7  | 27.0  | 26.5  | 26.5  | 26.0  | 24.9  | 24.9  | 24.9  |
| 7.5°  | 53.0  | 51.9  | 50.3  | 49.8  | 49.2  | 48.7  | 48.7  | 50.3  | 50.9  | 50.9  |
| 10°   | 79.0  | 76.3  | 76.8  | 75.2  | 75.2  | 77.4  | 77.9  | 81.1  | 80.1  | 80.1  |
| 12.5° | 96.8  | 97.9  | 97.9  | 97.9  | 101.2 | 101.2 | 105.5 | 107.1 | 108.7 | 108.2 |
| 15°   | 166.6 | 170.4 | 175.8 | 176.4 | 178.0 | 181.2 | 181.8 | 183.4 | 182.3 | 182.9 |
| 17.5° | 253.2 | 262.9 | 267.8 | 271.6 | 270.0 | 270.0 | 269.4 | 267.3 | 262.9 | 262.9 |
| 20°   | 336.0 | 344.1 | 345.7 | 347.3 | 345.2 | 344.1 | 340.3 | 338.7 | 331.6 | 332.2 |
| 22.5° | 407.9 | 408.5 | 409.5 | 403.6 | 404.1 | 402.5 | 398.7 | 397.1 | 387.4 | 388.4 |
| 25°   | 475.5 | 469.0 | 462.6 | 460.4 | 464.2 | 457.7 | 458.8 | 462.0 | 462.6 | 462.0 |
| 27.5° | 537.2 | 520.4 | 501.0 | 504.2 | 503.7 | 506.9 | 509.1 | 513.4 | 519.9 | 515.0 |
| 30°   | 600.5 | 570.8 | 551.3 | 545.9 | 551.8 | 558.9 | 567.5 | 569.1 | 578.9 | 574.5 |
| 32.5° | 660.0 | 618.9 | 604.3 | 588.6 | 598.9 | 614.0 | 631.9 | 635.7 | 645.4 | 643.8 |
| 35°   | 701.1 | 660.6 | 649.2 | 629.2 | 636.8 | 647.6 | 677.9 | 686.0 | 694.1 | 701.1 |
| 37.5° | 726.6 | 696.3 | 683.3 | 656.8 | 668.1 | 672.5 | 705.5 | 724.4 | 723.9 | 735.8 |
| 40°   | 743.9 | 719.0 | 702.8 | 673.0 | 681.1 | 691.9 | 716.8 | 742.3 | 739.5 | 752.0 |
| 42.5° | 746.6 | 724.9 | 708.7 | 682.2 | 676.8 | 699.5 | 714.1 | 742.8 | 740.6 | 750.9 |
| 45°   | 737.9 | 716.8 | 700.6 | 676.8 | 662.2 | 683.8 | 702.2 | 727.6 | 723.3 | 732.5 |
| 47.5° | 716.3 | 698.4 | 676.2 | 654.6 | 639.5 | 651.9 | 669.2 | 702.8 | 692.5 | 716.3 |
| 50°   | 681.7 | 664.9 | 639.5 | 623.8 | 600.5 | 615.7 | 624.3 | 664.9 | 654.1 | 688.2 |
| 52.5° | 638.4 | 625.9 | 590.2 | 581.6 | 556.1 | 569.1 | 578.9 | 611.9 | 612.4 | 642.7 |
| 55°   | 588.1 | 577.8 | 533.4 | 534.0 | 508.5 | 518.8 | 534.5 | 552.4 | 565.3 | 586.4 |
| 57.5° | 534.5 | 520.4 | 477.2 | 479.9 | 462.6 | 471.8 | 490.7 | 498.8 | 522.6 | 533.4 |
| 60°   | 478.8 | 462.0 | 422.5 | 425.2 | 414.4 | 427.9 | 445.2 | 450.7 | 478.2 | 481.5 |
| 62.5° | 426.3 | 406.3 | 373.3 | 373.8 | 364.6 | 384.1 | 394.9 | 404.1 | 431.7 | 433.9 |
| 65°   | 375.5 | 353.3 | 327.3 | 327.3 | 313.8 | 338.7 | 343.0 | 356.5 | 382.5 | 384.1 |
| 67.5° | 323.5 | 302.4 | 280.2 | 279.7 | 266.7 | 290.5 | 294.3 | 308.4 | 332.7 | 336.5 |
| 70°   | 274.3 | 253.7 | 232.6 | 235.9 | 224.5 | 243.4 | 253.2 | 262.9 | 286.2 | 288.9 |
| 72.5° | 228.3 | 207.7 | 187.7 | 192.6 | 182.9 | 200.7 | 211.5 | 217.5 | 238.6 | 240.2 |
| 75°   | 181.8 | 161.2 | 146.6 | 149.3 | 144.4 | 157.4 | 167.7 | 173.1 | 189.3 | 190.4 |
| 77.5° | 137.4 | 119.6 | 110.4 | 112.5 | 112.0 | 120.6 | 129.8 | 134.7 | 144.4 | 143.9 |
| 80°   | 96.3  | 84.9  | 77.9  | 81.1  | 82.8  | 87.1  | 95.8  | 98.5  | 104.4 | 106.0 |
| 82.5° | 66.5  | 59.5  | 56.8  | 58.4  | 60.6  | 62.2  | 68.2  | 69.8  | 73.6  | 73.6  |
| 85°   | 44.4  | 41.7  | 39.5  | 40.6  | 41.7  | 43.3  | 46.5  | 47.6  | 48.7  | 48.7  |
| 87.5° | 30.3  | 29.2  | 29.2  | 29.8  | 29.8  | 30.8  | 31.9  | 32.5  | 32.5  | 32.5  |
| 90°   | 22.7  | 21.6  | 21.6  | 22.2  | 22.2  | 22.2  | 23.3  | 23.8  | 23.8  | 23.8  |
| 95°   | 15.7  | 14.6  | 14.6  | 14.6  | 14.6  | 14.6  | 15.1  | 14.6  | 15.1  | 14.1  |
| 105°  | 6.0   | 6.0   | 6.5   | 5.4   | 6.5   | 5.4   | 6.0   | 5.4   | 6.0   | 5.4   |
| 115°  | 3.8   | 3.2   | 3.2   | 3.2   | 3.2   | 2.7   | 3.2   | 3.2   | 2.7   | 3.2   |
| 125°  | 2.7   | 2.2   | 2.7   | 3.2   | 2.7   | 2.7   | 2.2   | 2.2   | 2.2   | 2.2   |
| 135°  | 1.1   | 0.5   | 1.1   | 0.5   | 1.1   | 0.0   | 0.5   | 1.1   | 0.5   | 1.1   |
| 145°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.0   | 0.0   | 0.0   | 0.5   | 0.0   |
| 155°  | 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   |



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**CANDELA DISTRIBUTION (continued):**

|      | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|------|-----|------|------|------|------|------|------|------|------|------|
| 175° | 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  |

(END OF REPORT)