

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: P182369

Luminaire Tested: **LXT-E02-LED-E-U-SYM-BK-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P182369  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34329)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXT-E02-LED-E-U-SYM-BK-8030  
Description: LEXINGTON LED OUTDOOR LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - SYMMETRIC  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4168.1 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.83')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G3

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

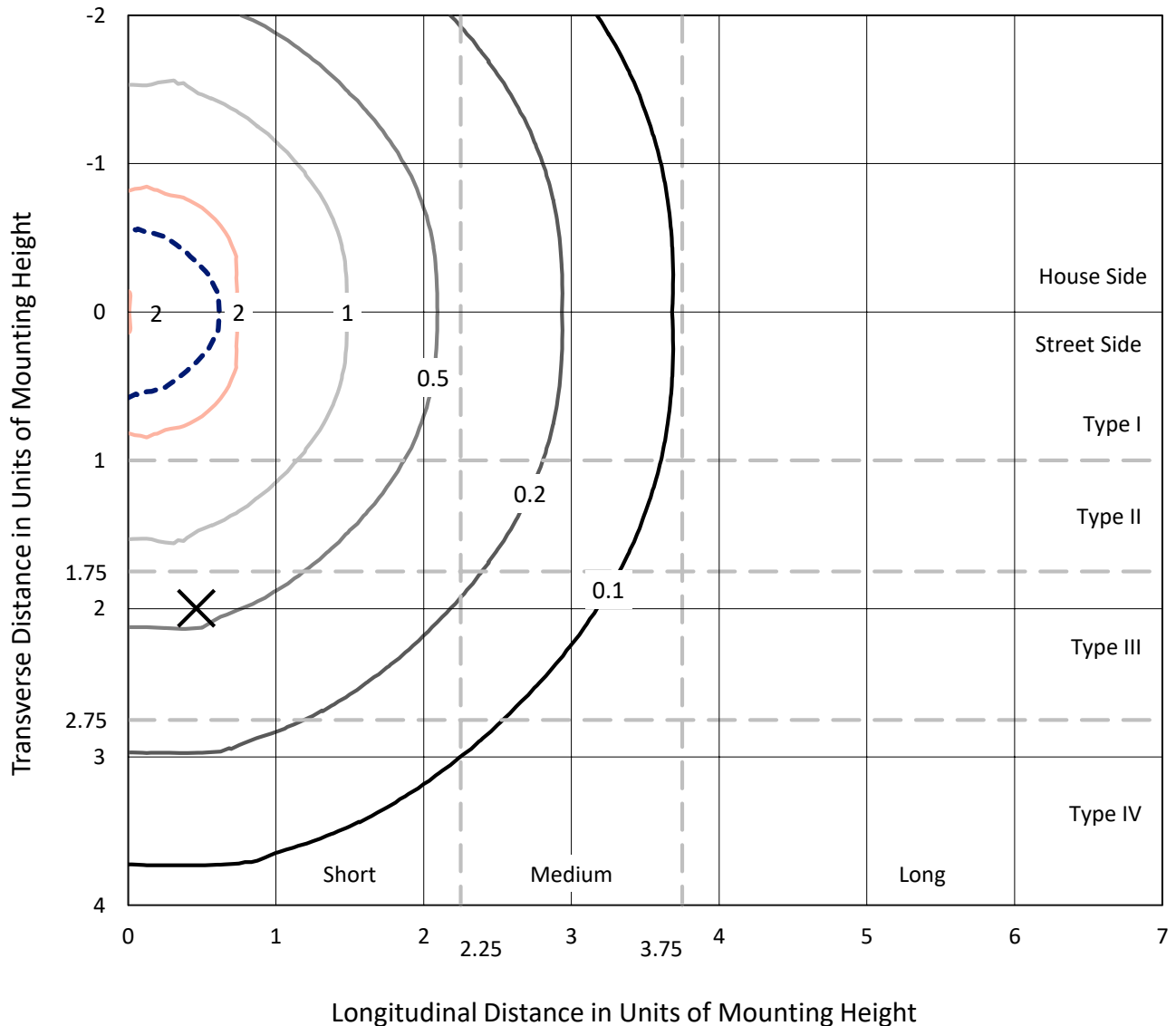


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### Iso-Footcandle Lines of Horizontal Illumination

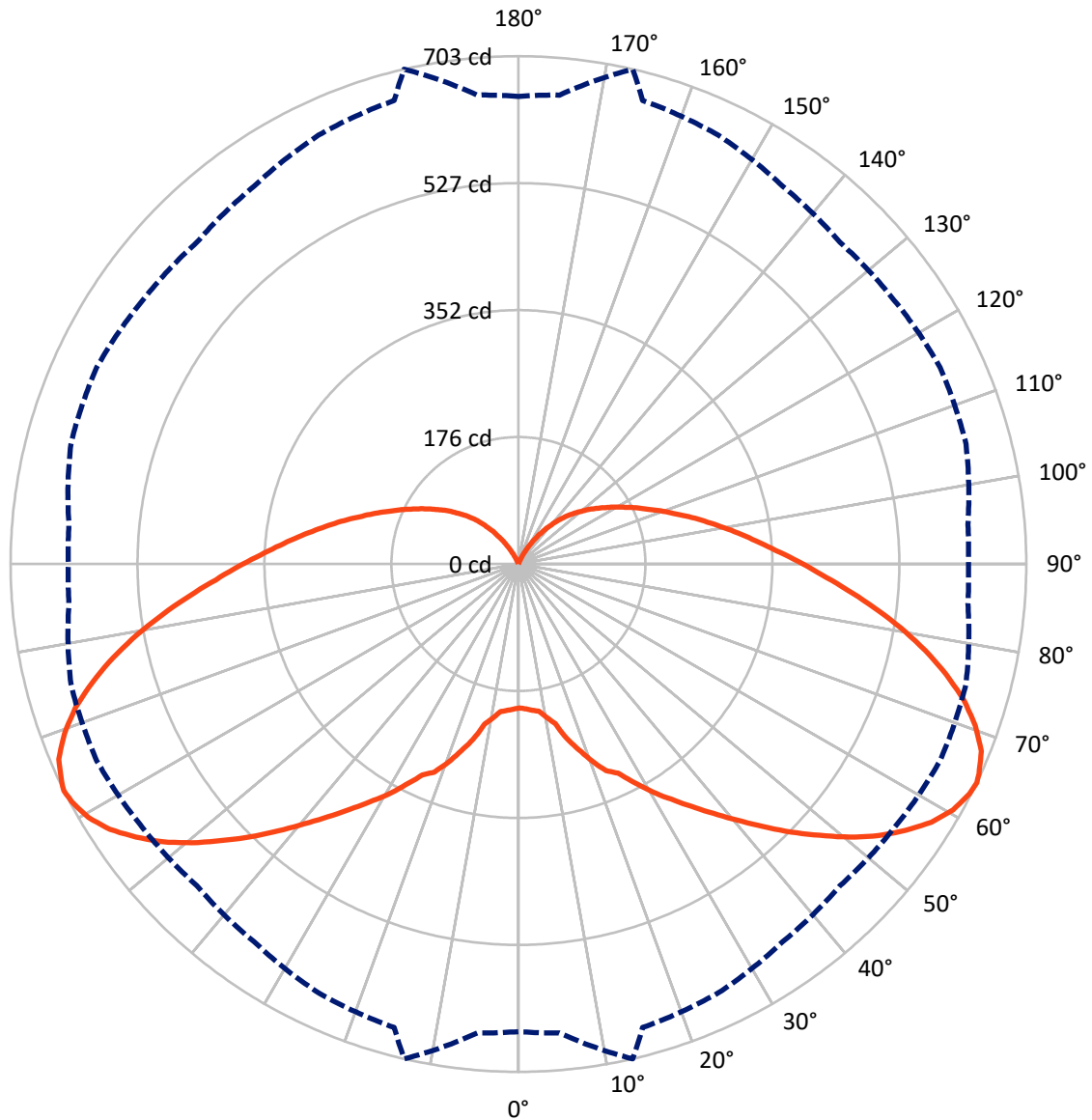
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 13-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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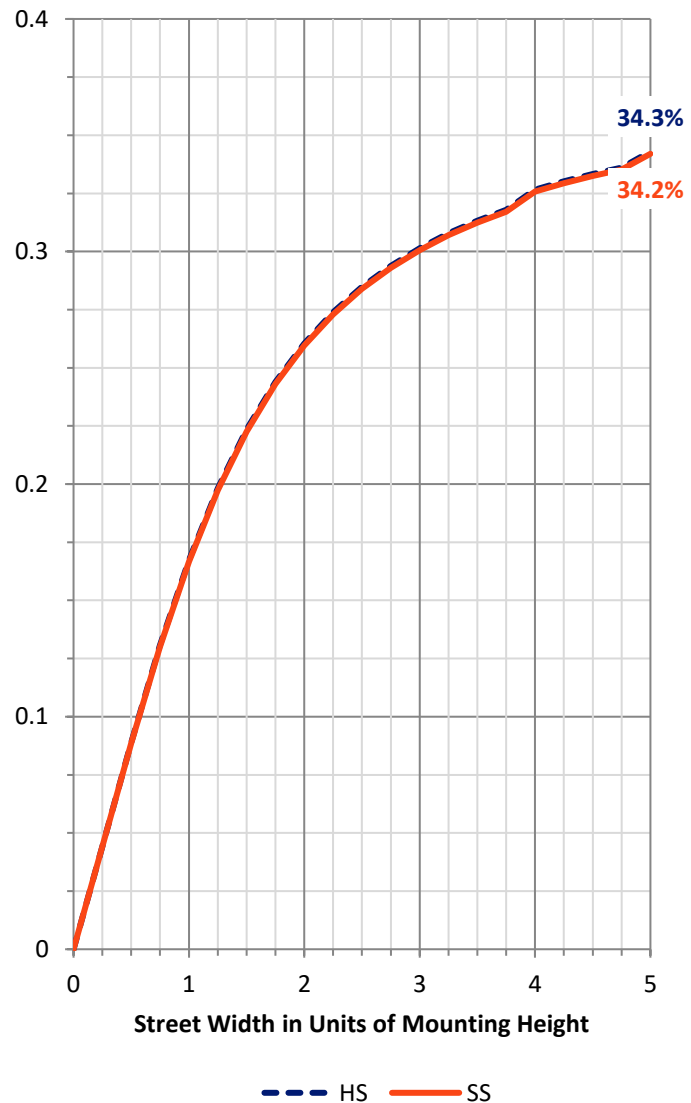
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1568.8   | 515.2  | 2084.0 |
|                    | % Fixture | 37.6     | 12.4   | 50.0   |
| <b>Street Side</b> | Lumens    | 1568.8   | 515.2  | 2084.0 |
|                    | % Fixture | 37.6     | 12.4   | 50.0   |
| <b>Total</b>       | Lumens    | 3137.6   | 1030.4 | 4168.1 |
|                    | % Fixture | 75.3     | 24.7   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 20.1   | 0.5       |
| 10°-20°   | 69.2   | 1.7       |
| 20°-30°   | 142.9  | 3.4       |
| 30°-40°   | 248.0  | 6.0       |
| 40°-50°   | 383.5  | 9.2       |
| 50°-60°   | 531.2  | 12.7      |
| 60°-70°   | 634.9  | 15.2      |
| 70°-80°   | 614.5  | 14.7      |
| 80°-90°   | 493.2  | 11.8      |
| 90°-100°  | 367.3  | 8.8       |
| 100°-110° | 267.9  | 6.4       |
| 110°-120° | 187.2  | 4.5       |
| 120°-130° | 119.4  | 2.9       |
| 130°-140° | 63.2   | 1.5       |
| 140°-150° | 22.5   | 0.5       |
| 150°-160° | 2.9    | 0.1       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 3137.6 | 75.3      |
| 0°-180°   | 4168.1 | 100.0     |



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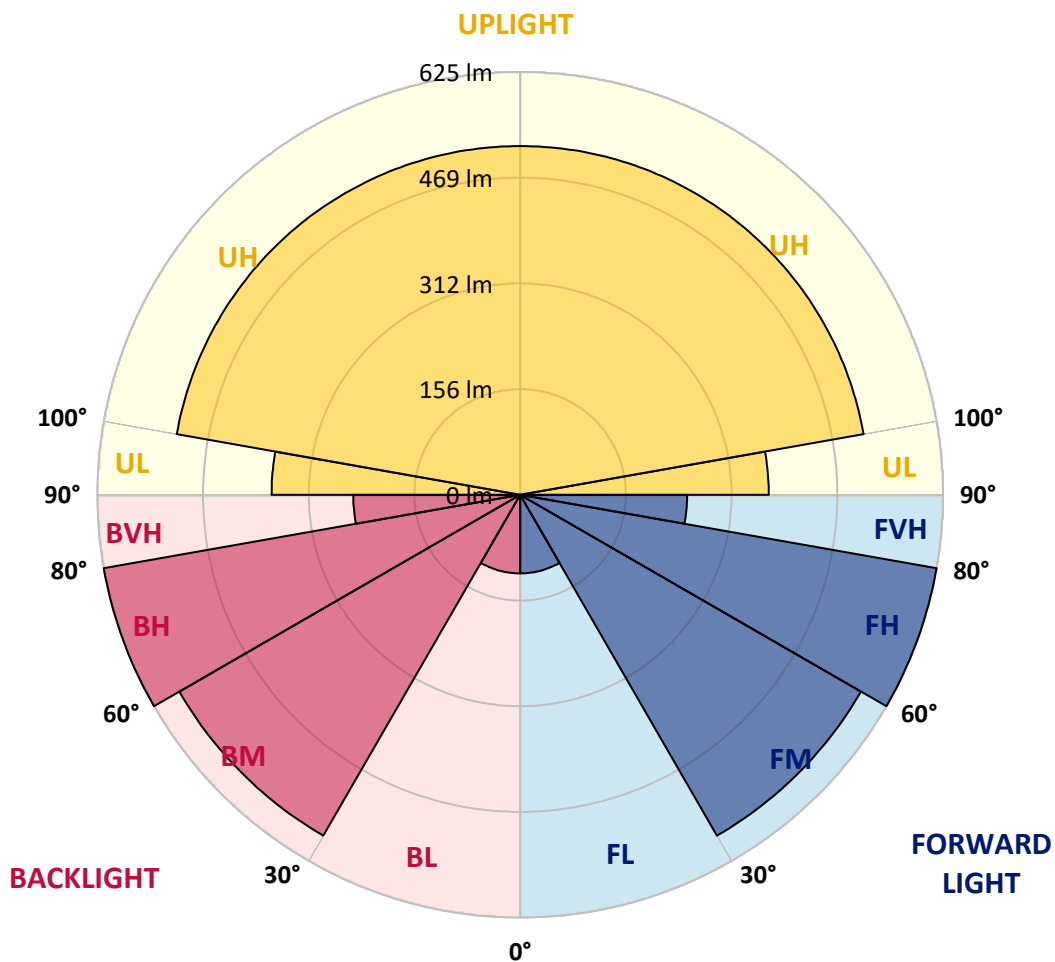
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |         |        |
|----------------|--------|-----------|-------------------------|---------|--------|
|                |        |           | B                       | U       | G      |
| FL (0°-30°)    | 116.1  | 2.8       |                         |         |        |
| FM (30°-60°)   | 581.4  | 13.9      |                         |         |        |
| FH (60°-80°)   | 624.7  | 15.0      |                         |         | G0/660 |
| FVH (80°-90°)  | 246.6  | 5.9       |                         |         | G3/500 |
| BL (0°-30°)    | 116.1  | 2.8       | B1/500                  |         |        |
| BM (30°-60°)   | 581.4  | 13.9      | B1/1000                 |         |        |
| BH (60°-80°)   | 624.7  | 15.0      | B2/1000                 |         | G0/660 |
| BVH (80°-90°)  | 246.6  | 5.9       |                         |         | G3/500 |
| UL (90°-100°)  | 367.3  | 8.8       |                         | U3/500  |        |
| UH (100°-180°) | 515.2  | 12.4      |                         | U4/1000 |        |

**BUG Rating: B2-U4-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 13°   | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 199.2 | 199.2 | 199.2 | 199.2 | 199.2 | 199.2 | 199.2 | 199.2 | 199.2 | 199.2 | 199.2 |
| 2.5°   | 199.2 | 199.2 | 200.9 | 199.2 | 200.0 | 200.9 | 200.0 | 200.0 | 200.9 | 200.9 | 200.9 |
| 5°     | 201.7 | 200.9 | 203.4 | 200.9 | 202.6 | 205.9 | 206.8 | 211.0 | 211.8 | 212.7 | 210.2 |
| 7.5°   | 203.4 | 203.4 | 205.9 | 202.6 | 207.6 | 213.5 | 215.2 | 213.5 | 217.7 | 221.1 | 216.1 |
| 10°    | 210.2 | 209.3 | 216.1 | 211.8 | 213.5 | 217.7 | 222.0 | 226.2 | 224.5 | 229.6 | 223.7 |
| 12.5°  | 218.6 | 219.4 | 227.0 | 221.1 | 227.9 | 229.6 | 228.7 | 230.4 | 228.7 | 232.1 | 231.3 |
| 15°    | 236.3 | 235.5 | 250.7 | 242.2 | 241.4 | 240.5 | 238.0 | 235.5 | 237.2 | 238.8 | 237.2 |
| 17.5°  | 252.4 | 253.2 | 270.1 | 259.1 | 264.2 | 259.1 | 248.1 | 244.8 | 246.4 | 249.0 | 251.5 |
| 20°    | 270.9 | 270.1 | 291.2 | 278.5 | 284.4 | 275.1 | 265.9 | 259.9 | 262.5 | 265.0 | 266.7 |
| 22.5°  | 287.8 | 288.6 | 310.6 | 294.6 | 296.2 | 292.9 | 285.3 | 281.9 | 278.5 | 280.2 | 281.0 |
| 25°    | 307.2 | 307.2 | 320.7 | 305.5 | 308.9 | 308.9 | 308.9 | 303.8 | 295.4 | 296.2 | 297.9 |
| 27.5°  | 328.3 | 328.3 | 342.7 | 326.6 | 327.5 | 331.7 | 330.8 | 326.6 | 316.5 | 314.8 | 317.3 |
| 30°    | 347.7 | 347.7 | 366.3 | 347.7 | 351.9 | 355.3 | 353.6 | 348.6 | 340.1 | 334.2 | 335.1 |
| 32.5°  | 368.0 | 368.0 | 388.2 | 368.8 | 374.7 | 379.0 | 378.1 | 373.9 | 362.9 | 352.8 | 352.8 |
| 35°    | 389.9 | 389.9 | 411.9 | 390.8 | 400.1 | 404.3 | 403.4 | 398.4 | 387.4 | 373.0 | 373.9 |
| 37.5°  | 414.4 | 413.6 | 438.0 | 415.2 | 424.5 | 427.9 | 427.1 | 422.0 | 412.7 | 395.8 | 395.8 |
| 40°    | 438.0 | 438.0 | 465.9 | 441.4 | 450.7 | 454.1 | 452.4 | 447.3 | 438.0 | 422.0 | 417.8 |
| 42.5°  | 464.2 | 463.4 | 497.1 | 469.3 | 476.9 | 479.4 | 476.0 | 471.8 | 464.2 | 449.0 | 442.3 |
| 45°    | 490.4 | 490.4 | 529.2 | 498.0 | 504.7 | 503.9 | 503.0 | 498.0 | 490.4 | 475.2 | 465.9 |
| 47.5°  | 519.1 | 518.2 | 561.3 | 526.7 | 532.6 | 529.2 | 526.7 | 522.4 | 515.7 | 501.3 | 489.5 |
| 50°    | 544.4 | 544.4 | 594.2 | 554.5 | 557.9 | 554.5 | 549.4 | 546.1 | 541.0 | 529.2 | 514.8 |
| 52.5°  | 572.2 | 571.4 | 624.6 | 581.5 | 583.2 | 576.4 | 569.7 | 568.8 | 565.5 | 554.5 | 539.3 |
| 55°    | 595.9 | 595.9 | 650.7 | 606.8 | 606.0 | 595.9 | 589.9 | 589.1 | 589.1 | 579.8 | 563.8 |
| 57.5°  | 617.0 | 617.8 | 674.3 | 629.6 | 625.4 | 613.6 | 606.0 | 606.8 | 610.2 | 603.5 | 585.7 |
| 60°    | 633.8 | 635.5 | 691.2 | 647.3 | 641.4 | 627.1 | 618.6 | 622.0 | 627.9 | 622.9 | 605.1 |
| 62.5°  | 644.8 | 648.2 | 700.5 | 660.0 | 651.6 | 635.5 | 627.1 | 632.1 | 638.9 | 636.4 | 619.5 |
| 64°    | 647.3 | 651.6 | 703.0 | 664.2 | 654.9 | 638.1 | 629.6 | 635.5 | 644.0 | 641.4 | 624.6 |
| 65°    | 647.3 | 652.4 | 700.5 | 665.1 | 656.6 | 638.1 | 629.6 | 636.4 | 645.7 | 643.1 | 625.4 |
| 67.5°  | 642.3 | 648.2 | 691.2 | 660.8 | 652.4 | 634.7 | 626.2 | 633.0 | 642.3 | 639.7 | 622.9 |
| 70°    | 627.1 | 634.7 | 671.0 | 648.2 | 640.6 | 623.7 | 616.1 | 622.0 | 631.3 | 629.6 | 611.9 |
| 72.5°  | 603.5 | 611.9 | 644.8 | 627.1 | 622.0 | 607.7 | 599.2 | 605.1 | 613.6 | 610.2 | 591.6 |
| 75°    | 572.2 | 582.4 | 611.9 | 600.1 | 598.4 | 585.7 | 579.0 | 584.0 | 589.1 | 581.5 | 561.3 |
| 77.5°  | 539.3 | 550.3 | 575.6 | 568.8 | 569.7 | 560.4 | 555.3 | 557.0 | 559.6 | 545.2 | 524.1 |
| 80°    | 504.7 | 512.3 | 536.8 | 532.6 | 537.6 | 531.7 | 526.7 | 526.7 | 523.3 | 508.9 | 483.6 |
| 82.5°  | 467.6 | 475.2 | 496.3 | 497.1 | 506.4 | 502.2 | 498.8 | 495.4 | 488.7 | 470.1 | 443.1 |
| 85°    | 428.7 | 435.5 | 456.6 | 459.1 | 470.1 | 470.9 | 468.4 | 464.2 | 454.1 | 433.0 | 403.4 |
| 87.5°  | 393.3 | 399.2 | 419.5 | 422.0 | 437.2 | 442.3 | 439.7 | 436.3 | 422.0 | 397.5 | 368.8 |
| 90°    | 362.1 | 366.3 | 387.4 | 389.1 | 406.0 | 414.4 | 413.6 | 406.0 | 391.6 | 365.4 | 336.8 |
| 92.5°  | 334.2 | 335.9 | 357.0 | 358.7 | 377.3 | 387.4 | 388.2 | 380.6 | 364.6 | 335.9 | 309.7 |
| 95°    | 308.1 | 310.6 | 330.8 | 330.8 | 351.9 | 363.8 | 364.6 | 357.0 | 338.4 | 311.4 | 286.1 |
| 97.5°  | 286.1 | 287.0 | 307.2 | 307.2 | 328.3 | 340.1 | 342.7 | 334.2 | 316.5 | 288.6 | 264.2 |
| 100°   | 265.0 | 265.0 | 284.4 | 284.4 | 305.5 | 319.0 | 321.6 | 312.3 | 293.7 | 265.9 | 243.9 |
| 102.5° | 246.4 | 245.6 | 264.2 | 263.3 | 285.3 | 298.8 | 301.3 | 292.9 | 274.3 | 246.4 | 226.2 |
| 105°   | 229.6 | 228.7 | 244.8 | 243.9 | 265.9 | 280.2 | 283.6 | 274.3 | 254.0 | 227.0 | 211.0 |
| 107.5° | 214.4 | 213.5 | 226.2 | 225.3 | 248.1 | 261.6 | 265.0 | 255.7 | 235.5 | 209.3 | 195.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 13°   | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 200.0 | 198.3 | 210.2 | 208.5 | 230.4 | 243.9 | 247.3 | 238.0 | 218.6 | 193.3 | 184.0 |
| 112.5° | 186.5 | 185.7 | 194.1 | 191.6 | 214.4 | 227.9 | 230.4 | 222.0 | 201.7 | 178.1 | 171.3 |
| 115°   | 174.7 | 173.9 | 180.6 | 177.2 | 196.6 | 210.2 | 214.4 | 205.1 | 184.8 | 164.6 | 160.4 |
| 117.5° | 162.9 | 162.9 | 167.1 | 163.7 | 180.6 | 195.0 | 197.5 | 188.2 | 169.6 | 151.9 | 150.2 |
| 120°   | 151.9 | 151.1 | 155.3 | 150.2 | 164.6 | 178.1 | 180.6 | 171.3 | 154.5 | 140.9 | 140.9 |
| 122.5° | 140.9 | 140.9 | 143.5 | 138.4 | 147.7 | 162.0 | 164.6 | 156.1 | 139.3 | 130.0 | 130.8 |
| 125°   | 130.8 | 130.0 | 132.5 | 125.8 | 131.7 | 144.3 | 147.7 | 140.1 | 125.8 | 119.8 | 121.5 |
| 127.5° | 119.8 | 119.0 | 122.4 | 114.8 | 117.3 | 127.4 | 130.8 | 124.1 | 113.1 | 110.6 | 113.1 |
| 130°   | 108.9 | 108.0 | 111.4 | 103.8 | 102.1 | 109.7 | 113.9 | 108.0 | 100.4 | 101.3 | 104.7 |
| 132.5° | 97.9  | 97.1  | 101.3 | 92.8  | 88.6  | 92.8  | 96.2  | 92.8  | 88.6  | 91.2  | 95.4  |
| 135°   | 86.9  | 86.9  | 91.2  | 81.9  | 76.0  | 76.8  | 78.5  | 77.6  | 76.8  | 82.7  | 86.1  |
| 137.5° | 76.8  | 76.0  | 80.2  | 71.7  | 64.1  | 61.6  | 62.5  | 62.5  | 65.0  | 72.6  | 76.8  |
| 140°   | 65.0  | 65.0  | 68.4  | 60.8  | 52.3  | 47.3  | 47.3  | 48.1  | 54.0  | 62.5  | 66.7  |
| 142.5° | 54.0  | 54.0  | 57.4  | 49.8  | 42.2  | 34.6  | 33.8  | 36.3  | 43.9  | 51.5  | 55.7  |
| 145°   | 43.9  | 43.0  | 45.6  | 39.7  | 32.1  | 23.6  | 21.1  | 25.3  | 33.8  | 41.4  | 45.6  |
| 147.5° | 32.9  | 32.9  | 35.4  | 29.5  | 23.6  | 15.2  | 12.7  | 16.0  | 24.5  | 31.2  | 34.6  |
| 150°   | 23.6  | 22.8  | 25.3  | 20.3  | 15.2  | 9.3   | 5.1   | 9.3   | 16.0  | 21.1  | 24.5  |
| 152.5° | 15.2  | 14.3  | 16.0  | 12.7  | 9.3   | 4.2   | 1.7   | 5.1   | 9.3   | 13.5  | 16.0  |
| 155°   | 7.6   | 7.6   | 8.4   | 6.8   | 4.2   | 1.7   | 0.8   | 1.7   | 4.2   | 6.8   | 8.4   |
| 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   |





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**CANDELA DISTRIBUTION (continued):**

|        | 90°   |
|--------|-------|
| 0°     | 199.2 |
| 2.5°   | 200.9 |
| 5°     | 210.2 |
| 7.5°   | 216.1 |
| 10°    | 219.4 |
| 12.5°  | 230.4 |
| 15°    | 238.0 |
| 17.5°  | 250.7 |
| 20°    | 266.7 |
| 22.5°  | 281.9 |
| 25°    | 297.9 |
| 27.5°  | 317.3 |
| 30°    | 335.9 |
| 32.5°  | 353.6 |
| 35°    | 374.7 |
| 37.5°  | 395.8 |
| 40°    | 419.5 |
| 42.5°  | 440.6 |
| 45°    | 465.0 |
| 47.5°  | 490.4 |
| 50°    | 514.8 |
| 52.5°  | 540.2 |
| 55°    | 564.6 |
| 57.5°  | 586.6 |
| 60°    | 604.3 |
| 62.5°  | 617.8 |
| 64°    | 622.9 |
| 65°    | 622.9 |
| 67.5°  | 617.8 |
| 70°    | 606.0 |
| 72.5°  | 584.0 |
| 75°    | 552.0 |
| 77.5°  | 514.8 |
| 80°    | 473.5 |
| 82.5°  | 435.5 |
| 85°    | 395.8 |
| 87.5°  | 362.1 |
| 90°    | 331.7 |
| 92.5°  | 305.5 |
| 95°    | 283.6 |
| 97.5°  | 262.5 |
| 100°   | 243.1 |
| 102.5° | 226.2 |
| 105°   | 211.8 |
| 107.5° | 196.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 90°   |
|--------|-------|
| 110°   | 184.0 |
| 112.5° | 171.3 |
| 115°   | 161.2 |
| 117.5° | 151.1 |
| 120°   | 140.9 |
| 122.5° | 131.7 |
| 125°   | 122.4 |
| 127.5° | 113.9 |
| 130°   | 105.5 |
| 132.5° | 96.2  |
| 135°   | 86.9  |
| 137.5° | 76.8  |
| 140°   | 66.7  |
| 142.5° | 55.7  |
| 145°   | 45.6  |
| 147.5° | 34.6  |
| 150°   | 24.5  |
| 152.5° | 16.0  |
| 155°   | 8.4   |
| 157.5° | 0.0   |
| 160°   | 0.0   |
| 162.5° | 0.0   |
| 165°   | 0.0   |
| 167.5° | 0.0   |
| 170°   | 0.0   |
| 172.5° | 0.0   |
| 175°   | 0.0   |
| 177.5° | 0.0   |
| 180°   | 0.0   |

(END OF REPORT)