

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: P691165

Luminaire Tested: **CRTK2-C013-D-U-T3-8027-U0-HSS-CRTK2**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C013-D-U-T3-8027-U0-HSS-CRTK2  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K LED WITH TYPE III OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2397 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 20.4  
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

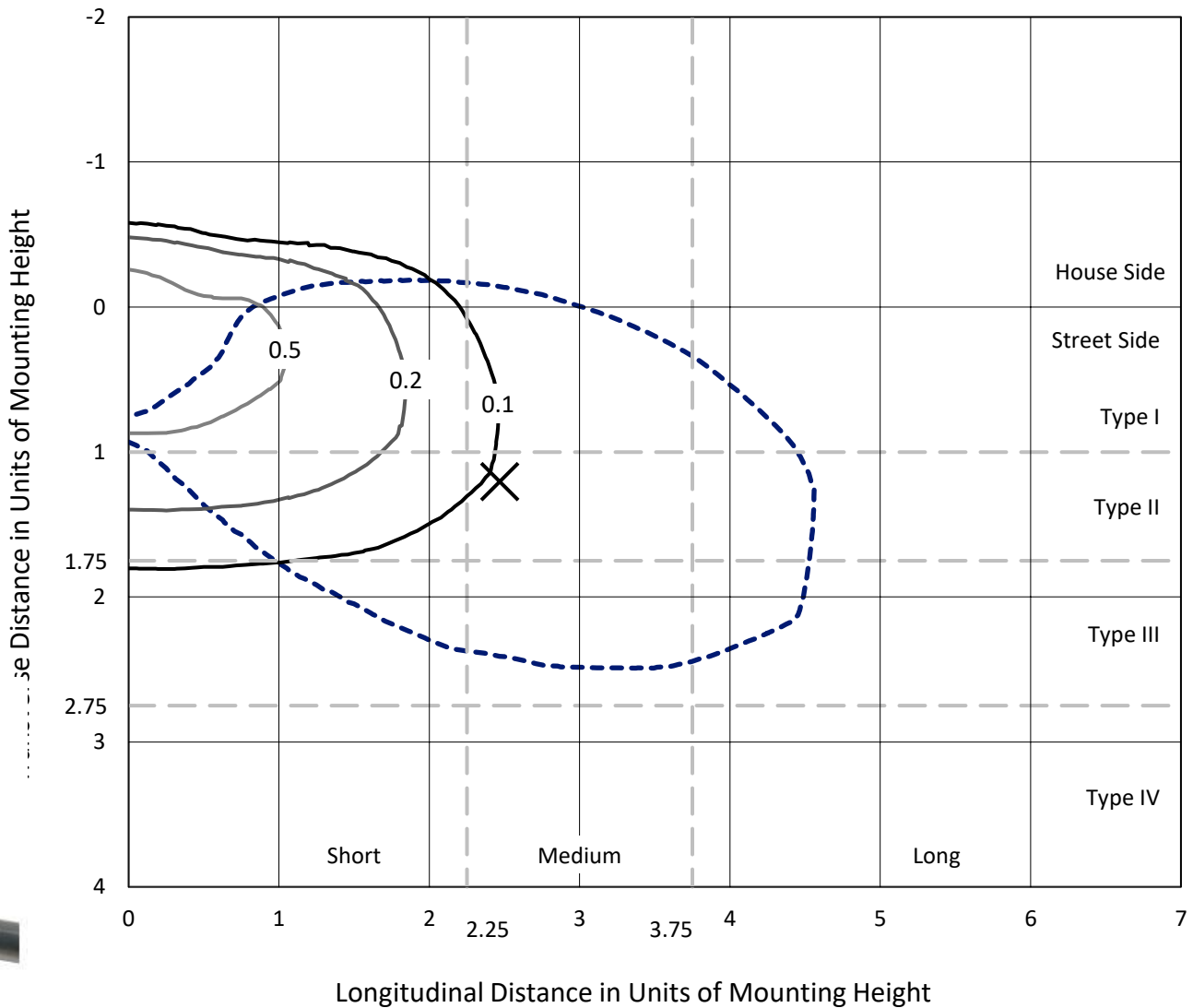


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

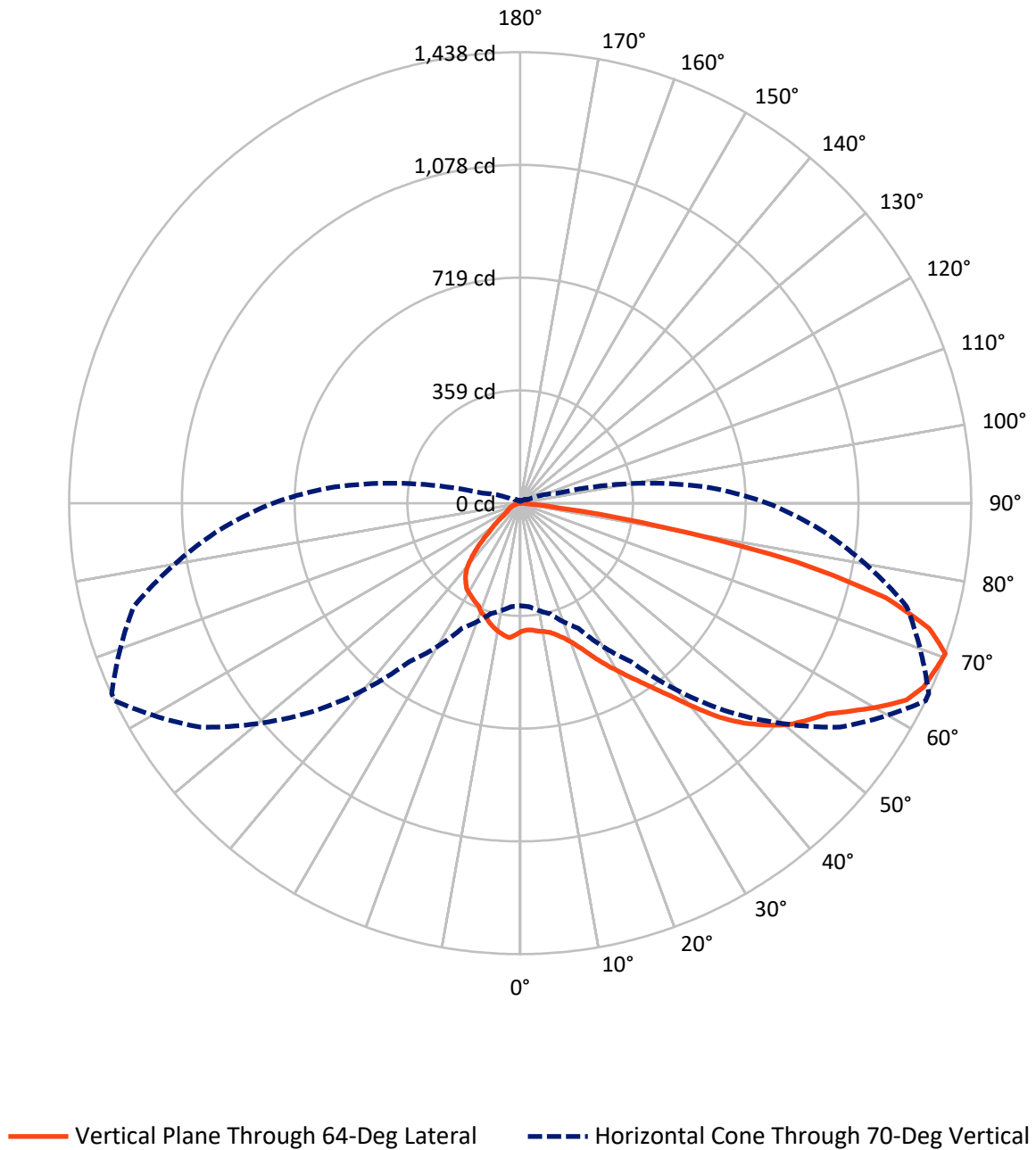


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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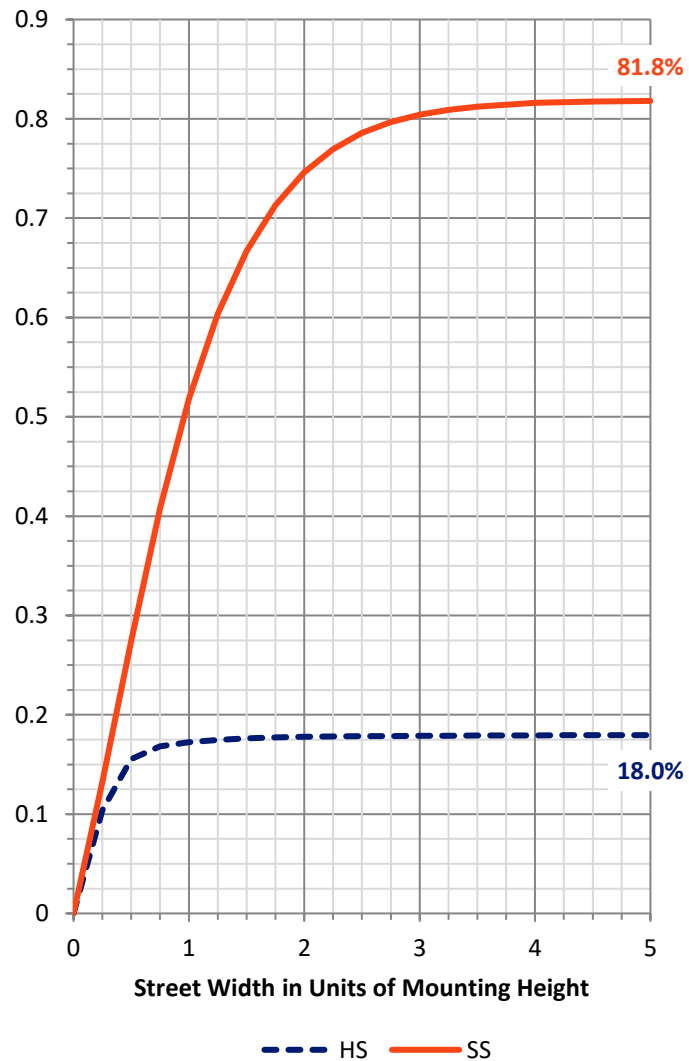
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 435.6    | 0.0    | 435.6  |
|                    | % Fixture | 18.2     | 0.0    | 18.2   |
| <b>Street Side</b> | Lumens    | 1961.4   | 0.0    | 1961.4 |
|                    | % Fixture | 81.8     | 0.0    | 81.8   |
| <b>Total</b>       | Lumens    | 2397.0   | 0.0    | 2397.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.9   | 1.7       |
| 10°-20°   | 118.0  | 4.9       |
| 20°-30°   | 198.8  | 8.3       |
| 30°-40°   | 292.6  | 12.2      |
| 40°-50°   | 401.2  | 16.7      |
| 50°-60°   | 488.2  | 20.4      |
| 60°-70°   | 518.3  | 21.6      |
| 70°-80°   | 317.7  | 13.3      |
| 80°-90°   | 22.2   | 0.9       |
| 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°    | 2397.0 | 100.0     |
| 0°-180°   | 2397.0 | 100.0     |

**Coefficient of Utilization**



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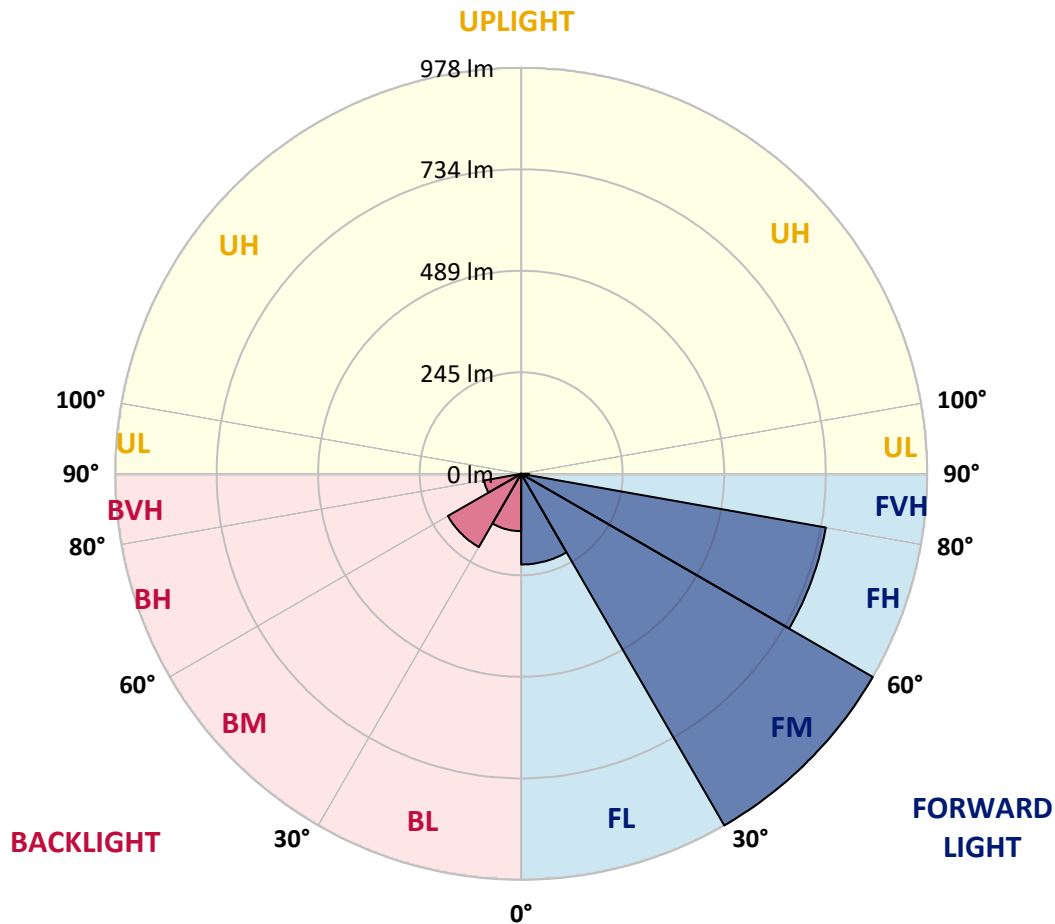
CATALOG NUMBER: CRTK2-C013-D-U-T3-8027-U0-HSS-CRTK2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 218.5  | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 978.1  | 40.8      |                         |      |         |
| FH   | (60°-80°)   | 745.4  | 31.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 19.3   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 138.2  | 5.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 203.9  | 8.5       | B0/220                  |      |         |
| BH   | (60°-80°)   | 90.7   | 3.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 2.8    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°    | 55°    | 64°    | 65°    | 75°    | 85°    |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3  | 409.3  | 409.3  | 409.3  | 409.3  | 409.3  |
| 2.5°  | 404.9 | 404.9 | 405.8 | 404.9 | 406.7 | 404.0  | 404.9  | 404.9  | 404.9  | 405.8  | 408.4  |
| 5°    | 417.2 | 417.2 | 415.4 | 412.8 | 410.2 | 406.7  | 406.7  | 406.7  | 406.7  | 408.4  | 414.6  |
| 7.5°  | 425.1 | 424.2 | 424.2 | 424.2 | 421.6 | 414.6  | 412.8  | 411.9  | 411.9  | 411.9  | 418.1  |
| 10°   | 444.4 | 441.8 | 438.3 | 433.0 | 430.4 | 424.2  | 417.2  | 416.3  | 416.3  | 417.2  | 425.1  |
| 12.5° | 462.9 | 460.2 | 460.2 | 456.7 | 446.2 | 439.2  | 426.9  | 422.5  | 422.5  | 424.2  | 428.6  |
| 15°   | 493.6 | 491.0 | 483.9 | 477.8 | 468.1 | 455.8  | 443.5  | 435.6  | 434.8  | 438.3  | 432.1  |
| 17.5° | 515.6 | 511.2 | 512.0 | 502.4 | 494.5 | 476.9  | 464.6  | 452.3  | 452.3  | 455.8  | 443.5  |
| 20°   | 536.6 | 536.6 | 537.5 | 536.6 | 523.5 | 509.4  | 489.2  | 474.3  | 475.2  | 476.0  | 456.7  |
| 22.5° | 568.3 | 567.4 | 567.4 | 568.3 | 559.5 | 543.7  | 521.7  | 505.0  | 504.1  | 497.1  | 473.4  |
| 25°   | 605.1 | 603.4 | 599.9 | 603.4 | 599.0 | 580.6  | 559.5  | 542.8  | 540.2  | 530.5  | 498.0  |
| 27.5° | 635.9 | 635.9 | 635.9 | 637.6 | 637.6 | 624.5  | 600.8  | 583.2  | 584.9  | 571.8  | 527.0  |
| 30°   | 657.8 | 657.8 | 665.8 | 669.3 | 671.9 | 667.5  | 642.0  | 623.6  | 627.1  | 611.3  | 563.0  |
| 32.5° | 681.6 | 680.7 | 691.2 | 699.1 | 702.6 | 704.4  | 683.3  | 668.4  | 669.3  | 655.2  | 604.3  |
| 35°   | 703.5 | 701.8 | 715.8 | 732.5 | 741.3 | 739.5  | 724.6  | 719.3  | 721.1  | 716.7  | 660.5  |
| 37.5° | 719.3 | 722.0 | 740.4 | 762.4 | 776.4 | 779.9  | 770.3  | 779.9  | 789.6  | 795.7  | 733.4  |
| 40°   | 736.9 | 736.9 | 754.5 | 778.2 | 800.1 | 813.3  | 820.3  | 855.5  | 863.4  | 867.8  | 776.4  |
| 42.5° | 719.3 | 725.5 | 762.4 | 796.6 | 825.6 | 845.8  | 874.8  | 933.6  | 942.4  | 915.2  | 833.5  |
| 45°   | 704.4 | 709.7 | 746.6 | 804.5 | 846.7 | 886.2  | 938.9  | 1000.4 | 1009.2 | 962.6  | 866.0  |
| 47.5° | 689.5 | 695.6 | 734.3 | 798.4 | 866.0 | 931.0  | 990.7  | 1057.5 | 1061.9 | 1003.9 | 909.0  |
| 50°   | 672.8 | 678.9 | 719.3 | 790.5 | 877.4 | 979.3  | 1041.7 | 1110.2 | 1111.1 | 1039.9 | 931.0  |
| 52.5° | 651.7 | 659.6 | 700.0 | 779.1 | 887.1 | 1011.8 | 1087.3 | 1148.8 | 1143.5 | 1083.8 | 957.3  |
| 55°   | 625.4 | 634.1 | 678.9 | 764.1 | 892.4 | 1032.9 | 1117.2 | 1186.6 | 1183.1 | 1134.8 | 991.6  |
| 57.5° | 595.5 | 605.1 | 651.7 | 741.3 | 890.6 | 1043.4 | 1147.9 | 1248.9 | 1250.7 | 1176.9 | 1017.1 |
| 60°   | 561.2 | 570.0 | 613.9 | 711.4 | 867.8 | 1062.7 | 1213.8 | 1317.5 | 1323.6 | 1223.5 | 1027.6 |
| 62.5° | 516.4 | 524.3 | 566.5 | 667.5 | 838.8 | 1076.8 | 1263.9 | 1382.4 | 1379.8 | 1255.1 | 1031.1 |
| 65°   | 460.2 | 469.0 | 508.5 | 609.5 | 793.1 | 1068.0 | 1279.7 | 1413.2 | 1413.2 | 1277.9 | 1028.5 |
| 67.5° | 403.1 | 411.0 | 444.4 | 535.8 | 719.3 | 1024.1 | 1270.0 | 1425.5 | 1433.4 | 1292.9 | 1004.8 |
| 70°   | 326.7 | 331.1 | 364.5 | 440.0 | 616.6 | 941.5  | 1245.4 | 1437.8 | 1436.9 | 1276.2 | 960.0  |
| 72.5° | 239.8 | 245.0 | 272.3 | 330.2 | 476.9 | 815.1  | 1168.1 | 1363.1 | 1349.1 | 1186.6 | 873.0  |
| 75°   | 123.8 | 129.1 | 150.2 | 207.3 | 303.9 | 575.3  | 996.0  | 1204.2 | 1201.5 | 1050.4 | 722.8  |
| 77.5° | 16.7  | 16.7  | 19.3  | 34.3  | 70.3  | 229.2  | 652.6  | 902.0  | 896.7  | 801.0  | 525.2  |
| 80°   | 11.4  | 11.4  | 13.2  | 15.8  | 20.2  | 50.1   | 230.1  | 457.6  | 465.5  | 412.8  | 235.4  |
| 82.5° | 8.8   | 7.9   | 9.7   | 11.4  | 12.3  | 22.8   | 70.3   | 126.5  | 128.2  | 115.1  | 72.0   |
| 85°   | 5.3   | 5.3   | 5.3   | 5.3   | 4.4   | 6.1    | 15.8   | 21.1   | 23.7   | 22.8   | 18.4   |
| 87.5° | 2.6   | 2.6   | 2.6   | 1.8   | 0.9   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 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):**

|       | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 |
| 2.5°  | 409.3 | 411.9 | 415.4 | 419.8 | 424.2 | 427.7 | 431.2 | 433.0 | 434.8 | 435.6 | 436.5 |
| 5°    | 416.3 | 419.8 | 424.2 | 430.4 | 430.4 | 427.7 | 426.0 | 426.0 | 427.7 | 430.4 | 431.2 |
| 7.5°  | 423.3 | 426.9 | 425.1 | 424.2 | 425.1 | 421.6 | 417.2 | 414.6 | 412.8 | 412.8 | 414.6 |
| 10°   | 426.0 | 422.5 | 420.7 | 416.3 | 407.5 | 405.8 | 402.3 | 395.2 | 393.5 | 395.2 | 389.1 |
| 12.5° | 424.2 | 421.6 | 412.8 | 405.8 | 397.0 | 382.1 | 373.3 | 373.3 | 368.9 | 368.0 | 368.9 |
| 15°   | 428.6 | 419.8 | 409.3 | 394.4 | 378.5 | 366.3 | 352.2 | 339.9 | 336.4 | 337.3 | 337.3 |
| 17.5° | 432.1 | 423.3 | 402.3 | 379.4 | 365.4 | 343.4 | 327.6 | 320.6 | 314.4 | 313.6 | 313.6 |
| 20°   | 440.0 | 427.7 | 397.9 | 373.3 | 338.1 | 321.5 | 303.9 | 295.1 | 285.4 | 272.3 | 267.9 |
| 22.5° | 452.3 | 435.6 | 395.2 | 356.6 | 325.8 | 299.5 | 274.0 | 247.7 | 231.9 | 221.3 | 224.0 |
| 25°   | 469.0 | 450.6 | 397.9 | 350.4 | 307.4 | 274.0 | 240.7 | 204.6 | 180.9 | 173.9 | 178.3 |
| 27.5° | 498.9 | 467.3 | 405.8 | 341.7 | 294.2 | 244.2 | 194.1 | 162.5 | 140.5 | 133.5 | 136.1 |
| 30°   | 526.1 | 492.7 | 406.7 | 336.4 | 273.2 | 209.0 | 152.8 | 117.7 | 100.1 | 89.6  | 87.0  |
| 32.5° | 575.3 | 520.0 | 428.6 | 329.4 | 251.2 | 170.4 | 112.4 | 78.2  | 62.4  | 56.2  | 54.5  |
| 35°   | 623.6 | 568.3 | 434.8 | 316.2 | 210.8 | 126.5 | 69.4  | 46.5  | 37.8  | 33.4  | 32.5  |
| 37.5° | 690.3 | 627.1 | 460.2 | 302.1 | 170.4 | 77.3  | 42.2  | 28.1  | 26.3  | 25.5  | 25.5  |
| 40°   | 723.7 | 657.8 | 481.3 | 281.9 | 119.4 | 43.9  | 27.2  | 24.6  | 23.7  | 22.8  | 22.8  |
| 42.5° | 771.1 | 693.0 | 498.9 | 245.9 | 70.3  | 29.0  | 24.6  | 22.8  | 22.0  | 21.1  | 21.1  |
| 45°   | 797.5 | 711.4 | 494.5 | 202.0 | 35.1  | 27.2  | 23.7  | 22.0  | 20.2  | 20.2  | 20.2  |
| 47.5° | 832.6 | 738.7 | 483.1 | 149.3 | 31.6  | 26.3  | 22.8  | 21.1  | 20.2  | 21.1  | 20.2  |
| 50°   | 866.0 | 765.0 | 451.4 | 118.6 | 30.7  | 25.5  | 22.8  | 20.2  | 20.2  | 20.2  | 20.2  |
| 52.5° | 884.4 | 789.6 | 411.9 | 87.0  | 31.6  | 25.5  | 22.0  | 20.2  | 20.2  | 19.3  | 20.2  |
| 55°   | 902.0 | 793.1 | 380.3 | 63.2  | 31.6  | 24.6  | 21.1  | 19.3  | 18.4  | 17.6  | 17.6  |
| 57.5° | 914.3 | 785.2 | 354.8 | 52.7  | 31.6  | 24.6  | 20.2  | 18.4  | 15.8  | 14.9  | 14.9  |
| 60°   | 910.8 | 765.9 | 333.8 | 48.3  | 29.9  | 22.8  | 18.4  | 15.8  | 14.1  | 12.3  | 12.3  |
| 62.5° | 901.1 | 754.5 | 295.1 | 42.2  | 27.2  | 21.1  | 16.7  | 13.2  | 11.4  | 10.5  | 10.5  |
| 65°   | 892.4 | 718.5 | 250.3 | 37.8  | 25.5  | 18.4  | 14.1  | 11.4  | 9.7   | 8.8   | 8.8   |
| 67.5° | 850.2 | 671.0 | 186.2 | 32.5  | 22.8  | 16.7  | 12.3  | 10.5  | 8.8   | 7.9   | 7.0   |
| 70°   | 787.8 | 594.6 | 122.1 | 28.1  | 20.2  | 14.1  | 10.5  | 8.8   | 7.0   | 6.1   | 6.1   |
| 72.5° | 681.6 | 491.0 | 63.2  | 22.8  | 16.7  | 12.3  | 9.7   | 7.9   | 6.1   | 5.3   | 5.3   |
| 75°   | 553.3 | 361.0 | 37.8  | 17.6  | 13.2  | 10.5  | 7.9   | 6.1   | 5.3   | 4.4   | 4.4   |
| 77.5° | 382.9 | 199.4 | 27.2  | 13.2  | 8.8   | 7.9   | 6.1   | 5.3   | 4.4   | 3.5   | 3.5   |
| 80°   | 129.1 | 54.5  | 19.3  | 9.7   | 6.1   | 6.1   | 4.4   | 3.5   | 3.5   | 2.6   | 2.6   |
| 82.5° | 50.9  | 33.4  | 13.2  | 7.0   | 5.3   | 4.4   | 3.5   | 2.6   | 2.6   | 2.6   | 2.6   |
| 85°   | 14.1  | 9.7   | 5.3   | 3.5   | 2.6   | 2.6   | 2.6   | 1.8   | 1.8   | 1.8   | 1.8   |
| 87.5° | 0.9   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 90°   | 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)