

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: P144182

Luminaire Tested: **RDG-E01-LED-E-U-5WQ-7060**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P144182  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: RDG-E01-LED-E-U-5WQ-7060  
Description: RIDGEVIEW LED AREA ROADWAY LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (21) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3145.6 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 24.7  
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



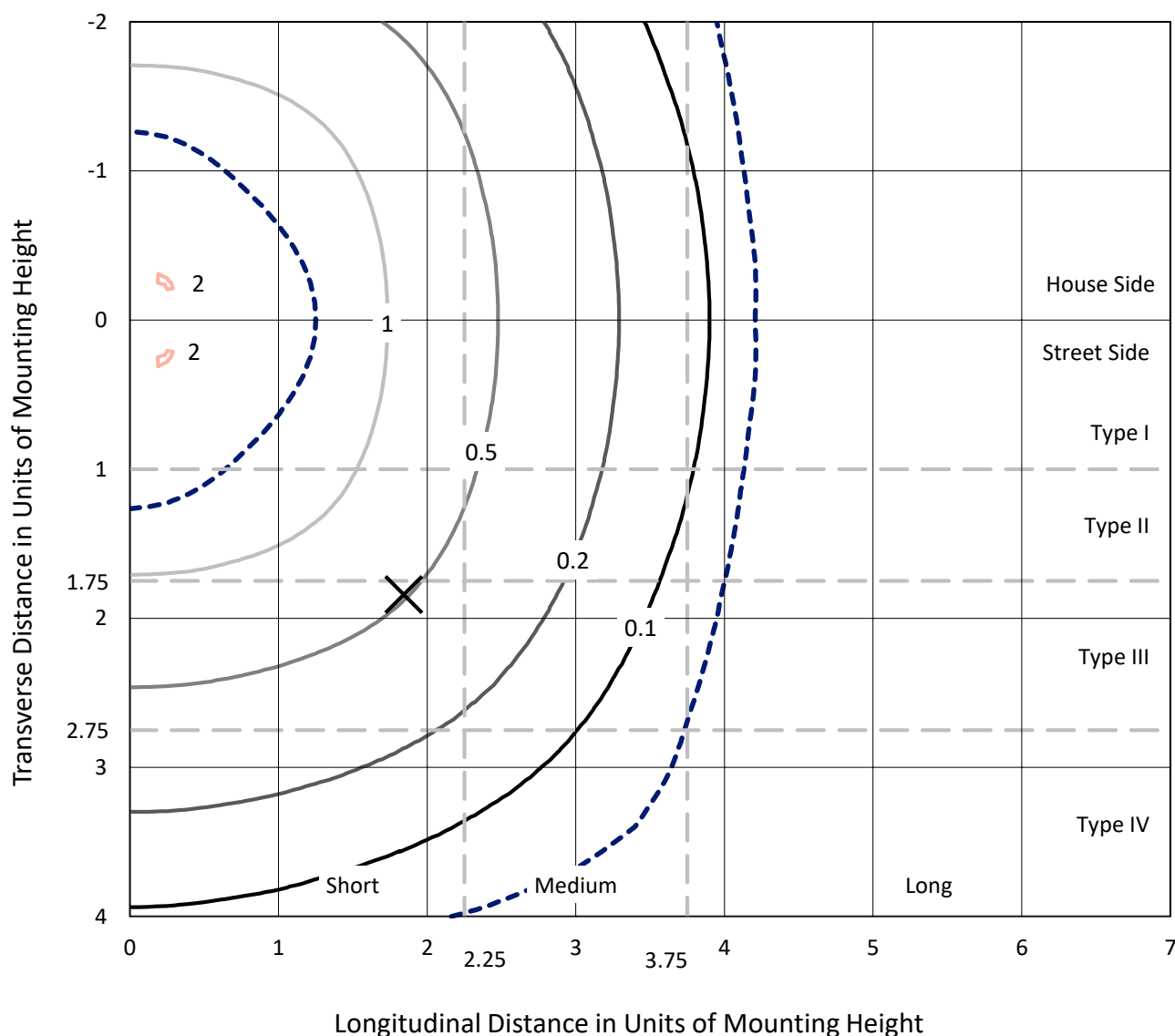
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

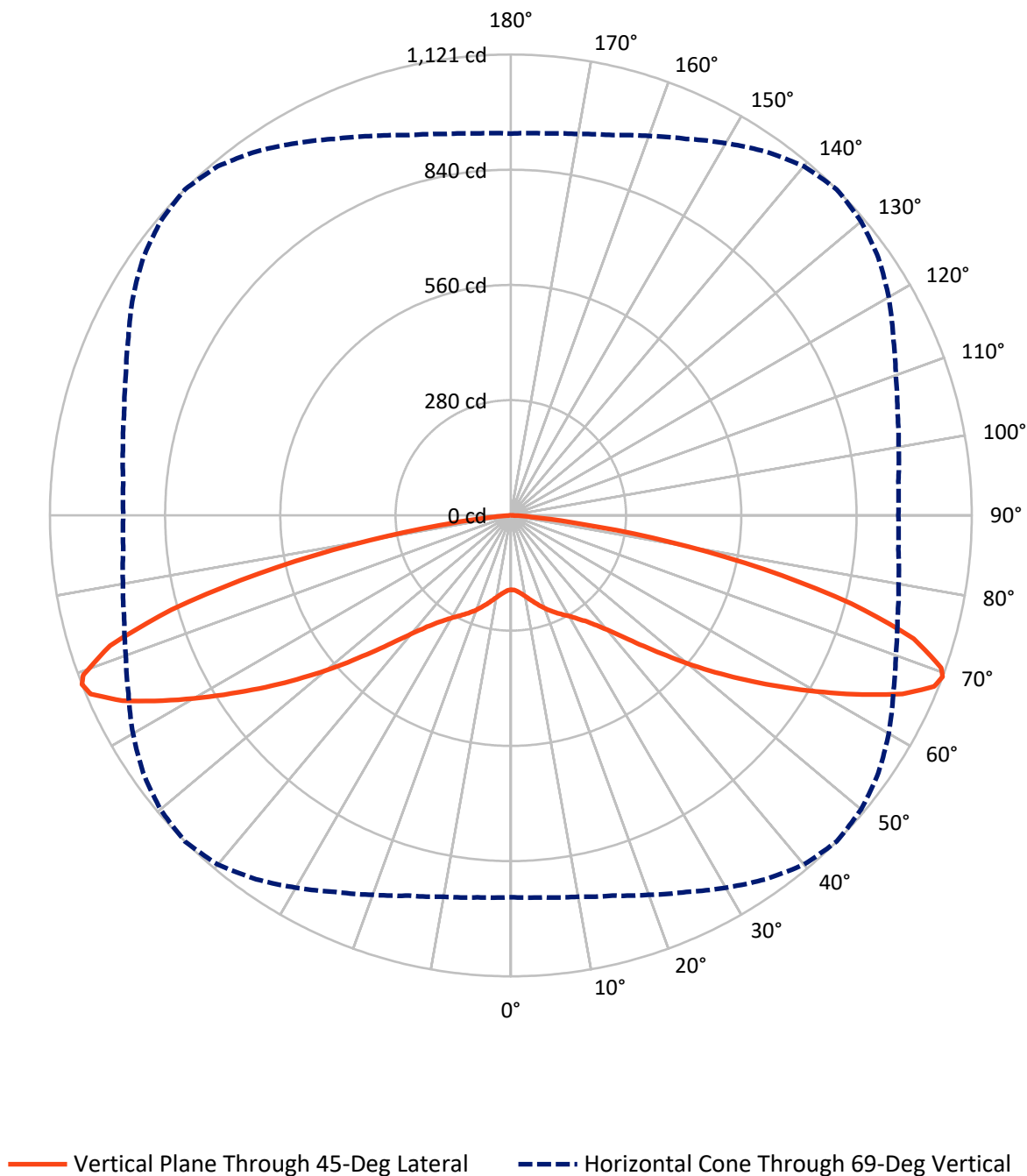


Based on 10 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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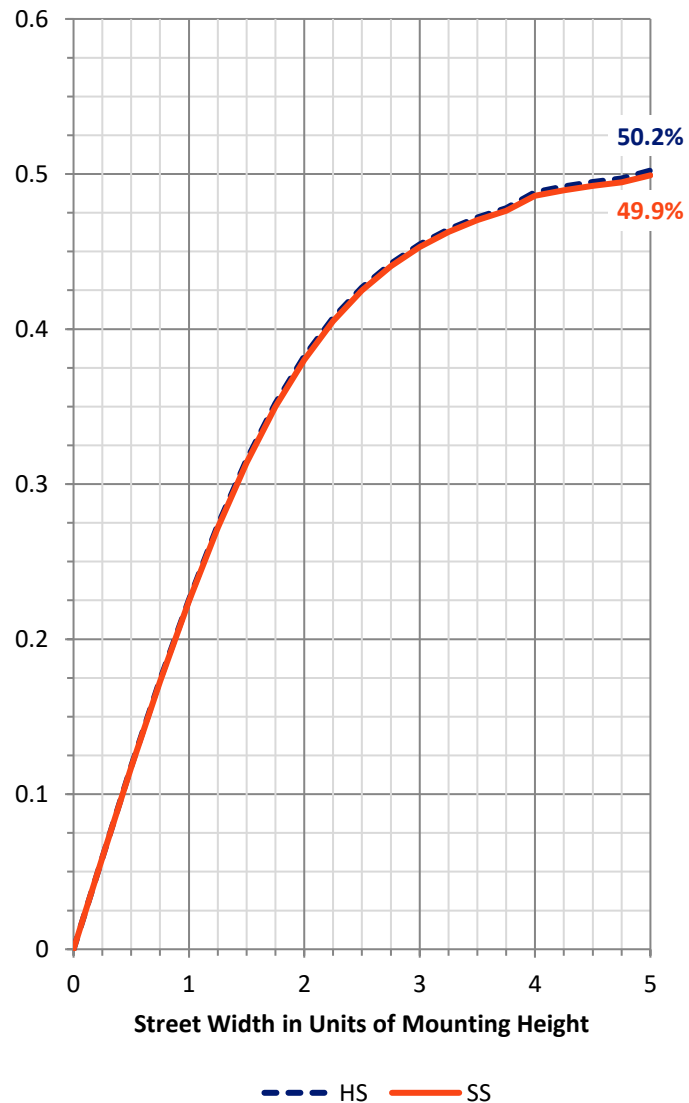
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1572.8   | 0.0    | 1572.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1572.8   | 0.0    | 1572.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3145.6   | 0.0    | 3145.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 18.2   | 0.6       |
| 10°-20°   | 62.9   | 2.0       |
| 20°-30°   | 121.2  | 3.9       |
| 30°-40°   | 198.6  | 6.3       |
| 40°-50°   | 345.2  | 11.0      |
| 50°-60°   | 613.3  | 19.5      |
| 60°-70°   | 952.2  | 30.3      |
| 70°-80°   | 758.6  | 24.1      |
| 80°-90°   | 75.4   | 2.4       |
| 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°    | 3145.6 | 100.0     |
| 0°-180°   | 3145.6 | 100.0     |

**Coefficient of Utilization**



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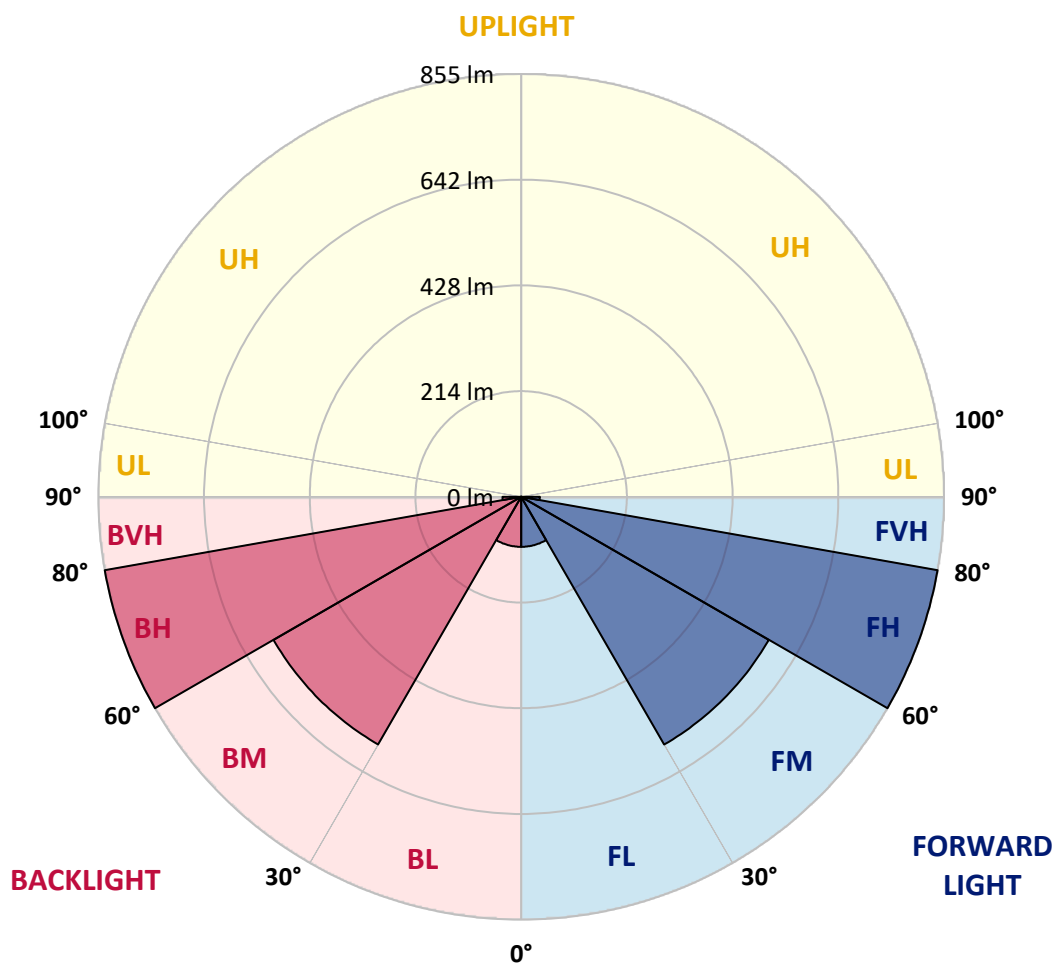
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 101.1  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 578.5  | 18.4      |                         |      |         |
| FH   | (60°-80°)   | 855.4  | 27.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 37.7   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 101.1  | 3.2       | B0/110                  |      |         |
| BM   | (30°-60°)   | 578.5  | 18.4      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 855.4  | 27.2      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 37.7   | 1.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8  | 180.8  | 180.8  | 180.8  | 180.8  | 180.8  |
| 2.5°  | 182.2 | 182.2 | 182.2 | 182.0 | 182.0 | 181.8  | 182.0  | 181.8  | 181.8  | 181.8  | 181.8  |
| 5°    | 187.0 | 186.5 | 186.5 | 186.3 | 186.8 | 186.8  | 186.3  | 186.5  | 186.3  | 186.5  | 186.5  |
| 7.5°  | 192.9 | 192.9 | 192.9 | 192.7 | 193.1 | 192.9  | 192.7  | 192.9  | 192.9  | 192.7  | 192.7  |
| 10°   | 200.3 | 200.5 | 200.3 | 200.3 | 200.9 | 200.7  | 200.9  | 200.9  | 201.1  | 200.9  | 200.9  |
| 12.5° | 208.9 | 208.9 | 209.1 | 209.3 | 209.5 | 209.7  | 210.4  | 210.1  | 210.6  | 210.1  | 210.1  |
| 15°   | 219.0 | 219.4 | 219.0 | 219.0 | 219.6 | 220.0  | 220.2  | 220.2  | 220.6  | 220.4  | 220.0  |
| 17.5° | 229.6 | 229.8 | 229.6 | 229.4 | 230.1 | 230.7  | 230.9  | 230.9  | 231.5  | 231.1  | 231.1  |
| 20°   | 240.5 | 240.7 | 240.3 | 240.1 | 240.9 | 240.9  | 241.3  | 241.5  | 242.2  | 242.4  | 241.8  |
| 22.5° | 250.6 | 250.8 | 250.6 | 250.4 | 251.2 | 251.2  | 251.8  | 252.0  | 252.8  | 252.6  | 252.6  |
| 25°   | 260.4 | 260.4 | 260.2 | 260.2 | 261.0 | 261.2  | 261.9  | 262.3  | 263.1  | 263.1  | 263.1  |
| 27.5° | 269.5 | 269.7 | 269.3 | 269.0 | 270.7 | 271.3  | 271.7  | 272.5  | 273.1  | 273.6  | 273.4  |
| 30°   | 279.7 | 279.7 | 279.5 | 280.1 | 281.2 | 282.0  | 282.8  | 284.0  | 285.3  | 284.8  | 284.8  |
| 32.5° | 291.8 | 292.2 | 292.0 | 292.9 | 294.1 | 295.3  | 296.3  | 297.8  | 298.4  | 299.4  | 298.6  |
| 35°   | 308.0 | 308.9 | 308.4 | 309.3 | 310.3 | 311.1  | 313.4  | 314.8  | 315.8  | 316.5  | 316.0  |
| 37.5° | 328.4 | 327.9 | 328.8 | 329.0 | 331.0 | 332.0  | 334.7  | 336.8  | 338.4  | 339.0  | 338.6  |
| 40°   | 353.6 | 353.0 | 354.0 | 355.0 | 357.7 | 358.7  | 361.8  | 364.9  | 367.1  | 368.0  | 367.6  |
| 42.5° | 383.8 | 384.6 | 386.2 | 387.7 | 391.4 | 394.2  | 397.7  | 402.2  | 404.7  | 405.7  | 404.3  |
| 45°   | 423.4 | 421.9 | 425.0 | 428.7 | 430.8 | 437.1  | 442.9  | 447.6  | 451.7  | 453.3  | 451.7  |
| 47.5° | 468.5 | 468.3 | 472.0 | 476.5 | 481.9 | 487.8  | 494.6  | 500.7  | 507.9  | 508.3  | 506.3  |
| 50°   | 518.4 | 522.5 | 524.5 | 529.1 | 538.9 | 546.3  | 554.9  | 564.2  | 570.7  | 572.8  | 569.1  |
| 52.5° | 578.5 | 581.6 | 582.8 | 590.4 | 599.5 | 608.5  | 620.6  | 631.7  | 639.3  | 640.1  | 638.2  |
| 55°   | 643.8 | 646.2 | 648.5 | 657.7 | 667.6 | 675.6  | 691.0  | 701.9  | 709.4  | 712.3  | 711.1  |
| 57.5° | 711.3 | 713.6 | 716.4 | 726.5 | 736.5 | 747.8  | 762.4  | 775.1  | 783.9  | 789.3  | 787.8  |
| 60°   | 786.2 | 786.2 | 792.8 | 802.8 | 811.0 | 824.4  | 839.6  | 854.3  | 864.0  | 872.4  | 870.1  |
| 62.5° | 865.0 | 867.3 | 873.6 | 881.8 | 890.5 | 902.8  | 920.0  | 937.7  | 952.4  | 958.8  | 958.6  |
| 65°   | 924.7 | 928.8 | 937.2 | 946.7 | 961.1 | 975.6  | 997.4  | 1019.3 | 1037.2 | 1046.4 | 1046.4 |
| 67.5° | 942.2 | 944.8 | 955.3 | 969.7 | 990.4 | 1013.6 | 1043.1 | 1073.7 | 1098.1 | 1110.2 | 1102.7 |
| 69°   | 928.2 | 932.1 | 941.3 | 956.9 | 981.6 | 1009.9 | 1045.0 | 1079.7 | 1108.0 | 1120.5 | 1111.7 |
| 70°   | 912.0 | 916.3 | 925.5 | 940.9 | 966.4 | 996.6  | 1031.6 | 1069.0 | 1099.4 | 1110.0 | 1100.0 |
| 72.5° | 845.9 | 851.3 | 857.8 | 871.2 | 894.1 | 922.5  | 954.1  | 986.9  | 1016.0 | 1024.5 | 1011.9 |
| 75°   | 733.3 | 734.3 | 737.6 | 747.4 | 755.6 | 775.7  | 802.6  | 828.7  | 850.6  | 855.6  | 842.2  |
| 77.5° | 519.0 | 513.5 | 507.9 | 516.3 | 522.9 | 548.8  | 577.9  | 599.2  | 622.2  | 629.2  | 615.7  |
| 80°   | 227.6 | 225.5 | 233.3 | 244.4 | 273.4 | 290.6  | 319.1  | 349.7  | 369.2  | 392.0  | 367.6  |
| 82.5° | 44.9  | 47.4  | 54.8  | 67.7  | 83.5  | 105.1  | 123.7  | 144.9  | 164.0  | 172.6  | 163.8  |
| 85°   | 18.3  | 19.9  | 22.6  | 25.2  | 27.1  | 30.4   | 35.7   | 44.3   | 48.8   | 49.5   | 47.0   |
| 87.5° | 7.6   | 8.8   | 11.9  | 14.2  | 14.4  | 13.7   | 14.2   | 14.6   | 11.9   | 9.6    | 12.1   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°   | 80°   | 85°   | 90°   |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 180.8  | 180.8  | 180.8  | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 |
| 2.5°  | 181.8  | 182.0  | 181.8  | 182.0  | 181.8 | 181.8 | 182.0 | 181.8 |
| 5°    | 186.3  | 186.5  | 186.3  | 186.1  | 185.9 | 186.1 | 186.1 | 186.1 |
| 7.5°  | 192.7  | 192.5  | 192.3  | 192.3  | 192.1 | 191.9 | 192.3 | 192.3 |
| 10°   | 200.5  | 200.3  | 199.9  | 199.9  | 199.7 | 199.7 | 199.7 | 199.7 |
| 12.5° | 209.9  | 209.3  | 209.1  | 208.5  | 208.3 | 208.1 | 208.1 | 208.3 |
| 15°   | 219.8  | 219.2  | 219.0  | 217.9  | 217.9 | 217.7 | 217.7 | 217.7 |
| 17.5° | 230.3  | 229.6  | 228.8  | 228.8  | 228.2 | 227.8 | 228.0 | 227.6 |
| 20°   | 240.9  | 240.1  | 239.7  | 239.5  | 238.7 | 238.7 | 238.7 | 238.5 |
| 22.5° | 251.4  | 250.8  | 250.2  | 249.3  | 248.5 | 248.3 | 248.3 | 248.1 |
| 25°   | 262.1  | 261.0  | 259.8  | 259.0  | 258.2 | 257.6 | 257.6 | 257.6 |
| 27.5° | 272.7  | 271.5  | 269.7  | 268.6  | 267.4 | 266.8 | 266.8 | 266.6 |
| 30°   | 284.0  | 282.6  | 280.9  | 279.5  | 277.9 | 277.3 | 277.0 | 276.6 |
| 32.5° | 297.6  | 296.1  | 294.5  | 292.4  | 290.8 | 289.8 | 289.8 | 289.2 |
| 35°   | 314.8  | 313.2  | 311.9  | 309.3  | 307.2 | 305.6 | 305.8 | 306.2 |
| 37.5° | 337.4  | 335.3  | 334.3  | 331.0  | 328.4 | 326.7 | 326.7 | 326.5 |
| 40°   | 366.1  | 364.1  | 361.8  | 358.7  | 355.4 | 353.2 | 352.6 | 352.6 |
| 42.5° | 402.6  | 400.8  | 397.7  | 393.4  | 389.5 | 387.0 | 385.0 | 385.2 |
| 45°   | 448.4  | 446.2  | 441.8  | 436.5  | 431.8 | 428.3 | 425.4 | 425.4 |
| 47.5° | 504.0  | 499.3  | 493.4  | 488.6  | 480.6 | 475.3 | 473.2 | 472.8 |
| 50°   | 567.4  | 558.6  | 551.2  | 544.5  | 536.0 | 530.5 | 527.4 | 526.6 |
| 52.5° | 633.9  | 624.7  | 615.5  | 606.6  | 596.4 | 590.6 | 585.7 | 585.3 |
| 55°   | 706.2  | 694.5  | 682.8  | 674.2  | 662.0 | 656.1 | 651.2 | 648.3 |
| 57.5° | 779.8  | 766.7  | 758.3  | 746.0  | 733.3 | 728.9 | 724.2 | 720.7 |
| 60°   | 862.7  | 848.4  | 837.3  | 824.4  | 816.2 | 806.9 | 802.4 | 799.7 |
| 62.5° | 947.5  | 934.2  | 920.0  | 907.7  | 896.2 | 889.8 | 883.7 | 880.6 |
| 65°   | 1033.7 | 1011.7 | 994.9  | 977.9  | 964.3 | 952.8 | 943.2 | 942.0 |
| 67.5° | 1086.6 | 1058.9 | 1030.8 | 1006.0 | 986.1 | 969.9 | 960.0 | 956.5 |
| 69°   | 1091.0 | 1060.8 | 1025.7 | 995.9  | 973.0 | 957.4 | 945.7 | 942.0 |
| 70°   | 1079.1 | 1048.7 | 1011.7 | 979.7  | 955.9 | 938.9 | 929.2 | 923.1 |
| 72.5° | 992.0  | 965.4  | 929.9  | 898.3  | 876.7 | 856.8 | 847.2 | 844.7 |
| 75°   | 818.4  | 790.1  | 757.5  | 742.3  | 727.3 | 714.8 | 708.2 | 707.6 |
| 77.5° | 581.2  | 552.2  | 527.4  | 507.5  | 491.3 | 483.3 | 485.1 | 478.4 |
| 80°   | 332.7  | 294.9  | 264.9  | 247.3  | 223.3 | 208.9 | 192.7 | 204.4 |
| 82.5° | 143.0  | 115.5  | 88.0   | 71.6   | 54.6  | 43.3  | 35.7  | 33.2  |
| 85°   | 40.0   | 32.6   | 27.3   | 25.0   | 22.6  | 20.1  | 17.0  | 15.8  |
| 87.5° | 13.5   | 12.9   | 11.5   | 11.5   | 10.5  | 8.8   | 6.2   | 5.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)