

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: McGRAW-EDISON

Report Number: P197900

Luminaire Tested: **TT-C2-LED-E1-WQ-SG-MS/DIM-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115558)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C2-LED-E1-WQ-SG-MS/DIM-7060  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR  
Light Source: (168) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3764 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 34  
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: 25 FT

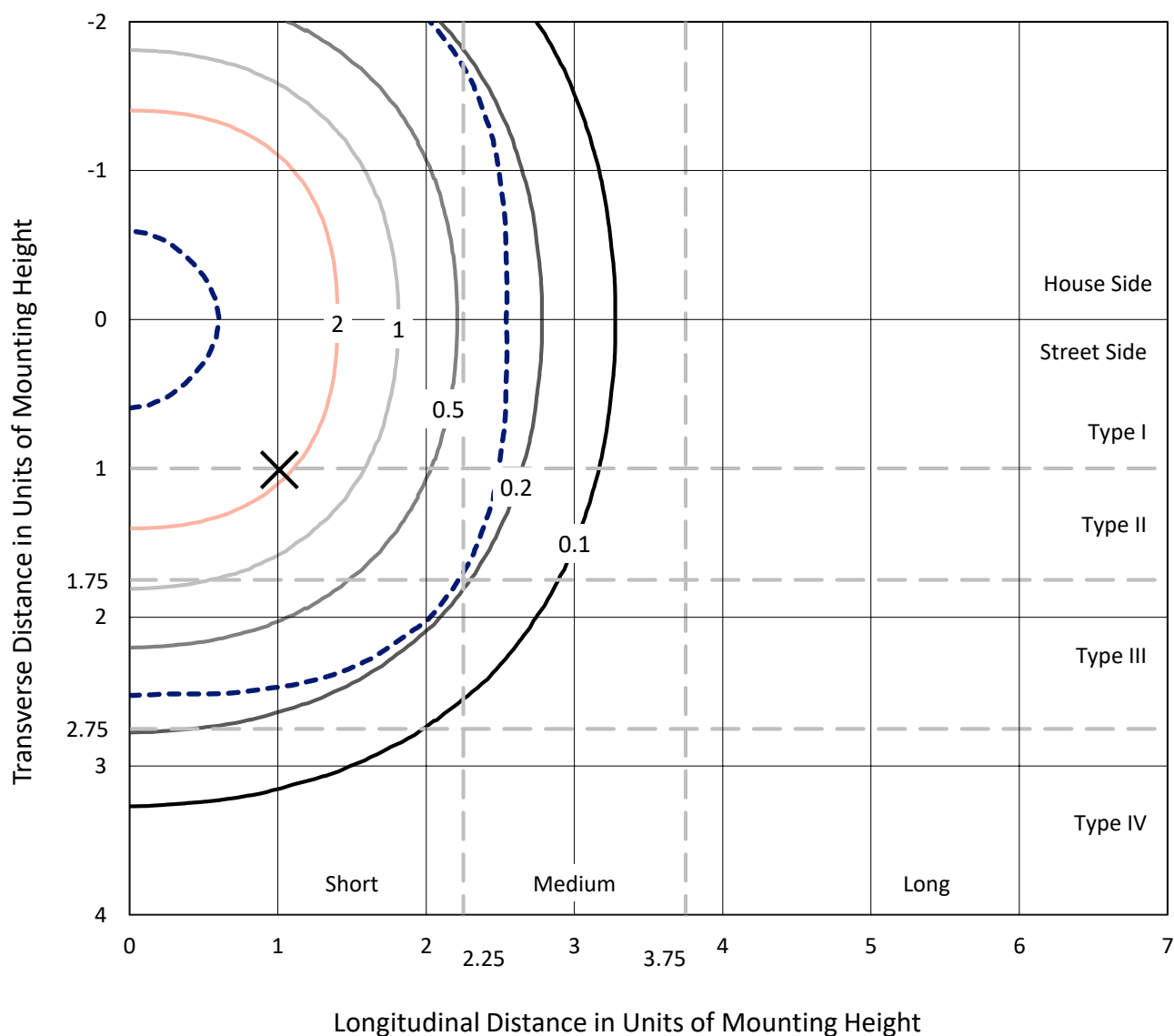


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

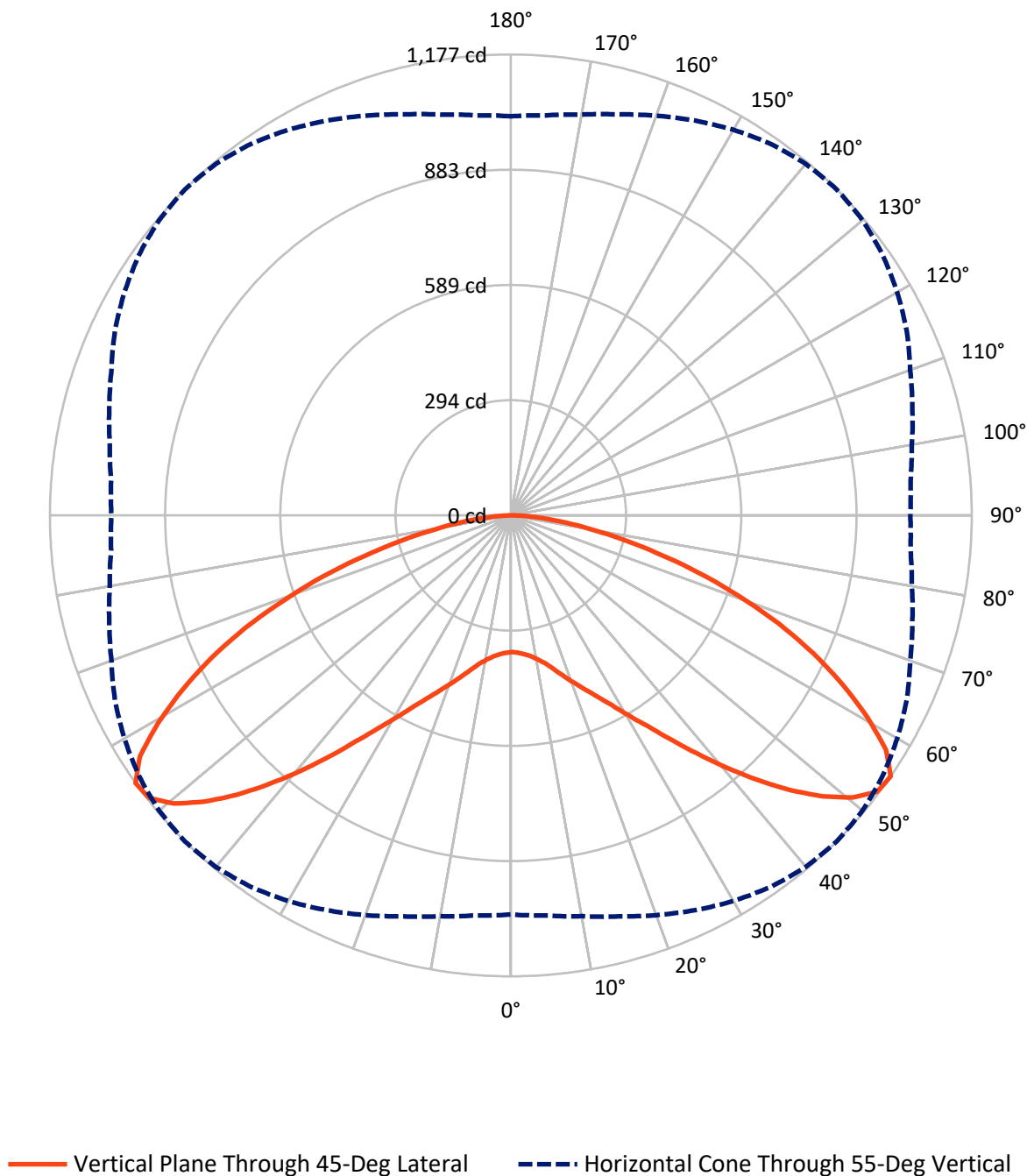


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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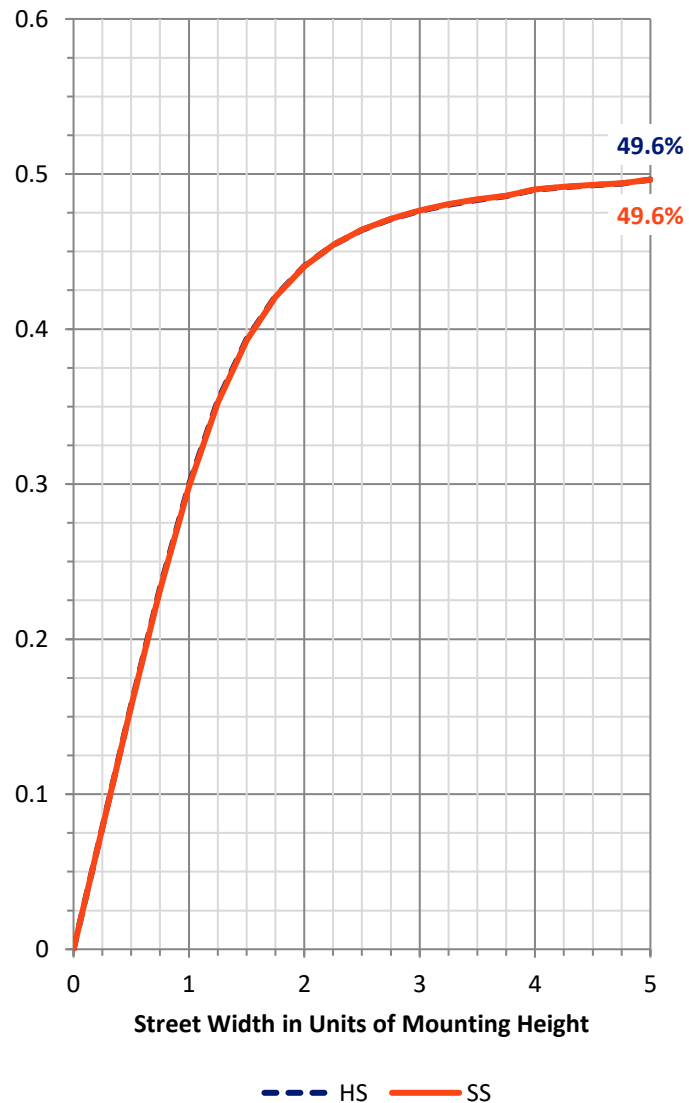
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1882.0   | 0.0    | 1882.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1882.0   | 0.0    | 1882.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3764.0   | 0.0    | 3764.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.5   | 0.9       |
| 10°-20°   | 116.8  | 3.1       |
| 20°-30°   | 237.9  | 6.3       |
| 30°-40°   | 434.5  | 11.5      |
| 40°-50°   | 737.8  | 19.6      |
| 50°-60°   | 960.8  | 25.5      |
| 60°-70°   | 777.1  | 20.6      |
| 70°-80°   | 381.9  | 10.1      |
| 80°-90°   | 82.7   | 2.2       |
| 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°    | 3764.0 | 100.0     |
| 0°-180°   | 3764.0 | 100.0     |

**Coefficient of Utilization**



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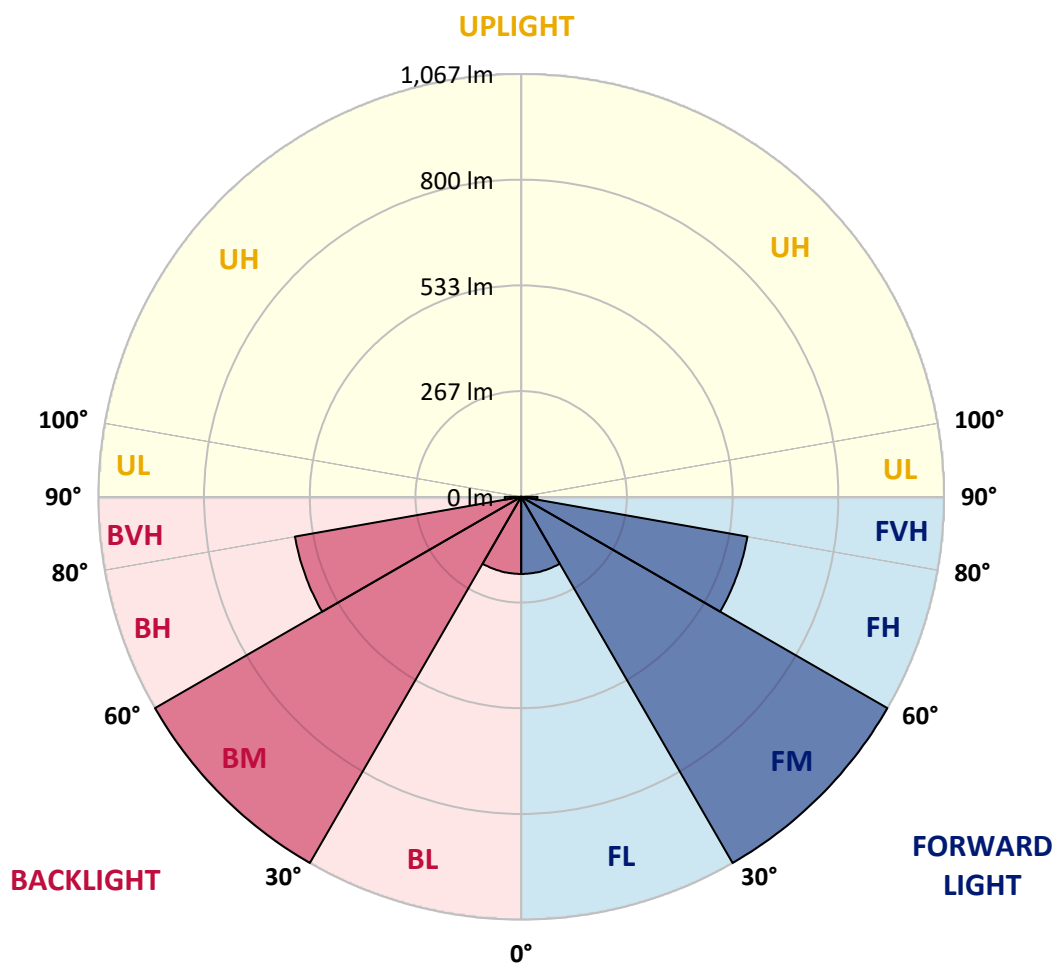
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 194.6  | 5.2       |                         |      |        |
| FM   | (30°-60°)   | 1066.6 | 28.3      |                         |      |        |
| FH   | (60°-80°)   | 579.5  | 15.4      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 41.3   | 1.1       |                         |      | G1/100 |
| BL   | (0°-30°)    | 194.6  | 5.2       | B1/500                  |      |        |
| BM   | (30°-60°)   | 1066.6 | 28.3      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 579.5  | 15.4      | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 41.3   | 1.1       |                         |      | 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°    | 348.8  | 348.8  | 348.8  | 348.8  | 348.8  | 348.8  | 348.8  | 348.8  | 348.8  | 348.8  | 348.8  |
| 2.5°  | 350.3  | 350.3  | 350.3  | 350.3  | 350.3  | 350.3  | 351.1  | 351.1  | 351.1  | 351.1  | 351.1  |
| 5°    | 354.9  | 354.9  | 354.9  | 355.7  | 355.7  | 355.7  | 355.7  | 355.7  | 355.7  | 355.7  | 355.7  |
| 7.5°  | 361.8  | 361.1  | 361.8  | 361.8  | 361.8  | 362.6  | 362.6  | 361.8  | 362.6  | 362.6  | 362.6  |
| 10°   | 371.8  | 371.1  | 371.8  | 371.8  | 371.8  | 372.6  | 372.6  | 372.6  | 372.6  | 373.4  | 373.4  |
| 12.5° | 386.5  | 385.7  | 386.5  | 387.3  | 386.5  | 387.3  | 387.3  | 387.3  | 387.3  | 387.3  | 387.3  |
| 15°   | 405.0  | 404.2  | 405.0  | 405.7  | 405.0  | 406.5  | 406.5  | 405.7  | 405.7  | 406.5  | 406.5  |
| 17.5° | 427.3  | 425.8  | 426.5  | 427.3  | 427.3  | 428.9  | 428.9  | 428.1  | 428.9  | 429.6  | 428.9  |
| 20°   | 450.4  | 448.9  | 449.7  | 451.9  | 451.9  | 452.7  | 454.2  | 453.5  | 454.2  | 455.0  | 454.2  |
| 22.5° | 475.8  | 475.0  | 475.8  | 478.1  | 478.1  | 478.9  | 481.2  | 481.2  | 481.2  | 481.9  | 481.2  |
| 25°   | 503.5  | 502.7  | 503.5  | 505.8  | 505.8  | 507.4  | 510.4  | 510.4  | 511.2  | 512.0  | 511.2  |
| 27.5° | 535.9  | 535.1  | 536.6  | 539.0  | 539.7  | 542.0  | 545.9  | 546.7  | 547.4  | 548.2  | 546.7  |
| 30°   | 573.6  | 572.0  | 574.3  | 578.2  | 579.7  | 582.8  | 587.5  | 589.0  | 589.7  | 592.0  | 590.5  |
| 32.5° | 616.7  | 615.2  | 618.3  | 622.8  | 625.2  | 629.8  | 636.0  | 637.5  | 639.8  | 641.3  | 639.0  |
| 35°   | 667.5  | 666.8  | 669.8  | 676.8  | 680.6  | 686.0  | 694.5  | 696.8  | 698.3  | 701.4  | 698.3  |
| 37.5° | 723.7  | 722.9  | 728.3  | 736.1  | 743.0  | 751.4  | 760.6  | 764.5  | 766.9  | 770.7  | 766.9  |
| 40°   | 786.1  | 785.3  | 792.2  | 801.5  | 809.9  | 820.7  | 832.3  | 837.6  | 842.3  | 846.2  | 841.5  |
| 42.5° | 850.0  | 850.0  | 858.4  | 868.4  | 880.8  | 893.9  | 906.9  | 913.1  | 920.8  | 923.1  | 917.7  |
| 45°   | 911.6  | 912.3  | 920.8  | 933.1  | 950.8  | 967.7  | 982.4  | 990.1  | 998.5  | 1000.9 | 994.0  |
| 47.5° | 970.1  | 970.9  | 978.5  | 994.7  | 1014.8 | 1034.0 | 1051.7 | 1062.5 | 1070.9 | 1071.7 | 1066.3 |
| 50°   | 1017.8 | 1020.9 | 1030.9 | 1045.5 | 1066.3 | 1086.3 | 1107.9 | 1121.8 | 1130.2 | 1132.6 | 1127.1 |
| 52.5° | 1036.3 | 1041.7 | 1053.3 | 1071.7 | 1095.5 | 1116.3 | 1140.2 | 1157.9 | 1167.9 | 1171.8 | 1167.2 |
| 55°   | 1019.3 | 1025.5 | 1039.4 | 1060.2 | 1086.3 | 1112.5 | 1137.1 | 1157.9 | 1171.8 | 1177.2 | 1172.6 |
| 57.5° | 981.6  | 982.4  | 996.2  | 1017.0 | 1040.9 | 1067.8 | 1091.7 | 1111.0 | 1124.1 | 1129.5 | 1128.7 |
| 60°   | 916.2  | 916.2  | 929.3  | 949.3  | 967.7  | 995.5  | 1015.5 | 1030.1 | 1039.4 | 1045.5 | 1044.0 |
| 62.5° | 828.4  | 828.4  | 839.9  | 860.7  | 879.2  | 903.1  | 922.4  | 937.7  | 943.9  | 950.8  | 952.4  |
| 65°   | 730.6  | 730.6  | 741.4  | 762.2  | 779.1  | 800.7  | 819.1  | 833.8  | 839.9  | 848.4  | 846.9  |
| 67.5° | 626.7  | 626.0  | 636.0  | 653.6  | 669.8  | 689.8  | 707.6  | 721.4  | 728.3  | 738.3  | 731.4  |
| 70°   | 519.7  | 519.7  | 528.2  | 542.0  | 553.5  | 573.6  | 590.5  | 604.4  | 609.7  | 618.3  | 614.4  |
| 72.5° | 418.1  | 417.3  | 424.2  | 435.0  | 444.2  | 461.9  | 471.9  | 487.4  | 491.9  | 503.5  | 497.4  |
| 75°   | 326.4  | 324.9  | 330.3  | 338.0  | 344.1  | 355.7  | 363.4  | 375.7  | 379.6  | 387.3  | 384.2  |
| 77.5° | 245.6  | 244.8  | 247.1  | 252.5  | 257.1  | 266.4  | 269.5  | 275.6  | 278.7  | 286.4  | 280.3  |
| 80°   | 176.3  | 174.0  | 176.3  | 179.4  | 181.0  | 187.9  | 188.6  | 191.0  | 192.5  | 197.9  | 191.7  |
| 82.5° | 118.6  | 115.5  | 117.0  | 119.3  | 119.3  | 123.2  | 123.9  | 123.2  | 126.2  | 127.8  | 124.7  |
| 85°   | 67.7   | 65.4   | 66.2   | 67.7   | 67.0   | 69.3   | 69.3   | 68.5   | 70.8   | 70.8   | 69.3   |
| 87.5° | 22.4   | 20.8   | 21.6   | 22.4   | 22.4   | 23.1   | 23.9   | 23.1   | 24.6   | 24.6   | 23.1   |
| 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°    | 348.8  | 348.8  | 348.8  | 348.8  | 348.8  | 348.8  | 348.8  | 348.8  |
| 2.5°  | 351.1  | 351.1  | 351.1  | 351.1  | 351.1  | 351.1  | 351.1  | 351.1  |
| 5°    | 355.7  | 355.7  | 355.7  | 355.7  | 355.7  | 354.9  | 354.9  | 354.9  |
| 7.5°  | 362.6  | 362.6  | 362.6  | 362.6  | 362.6  | 361.8  | 361.8  | 361.8  |
| 10°   | 373.4  | 372.6  | 372.6  | 372.6  | 372.6  | 371.8  | 372.6  | 371.8  |
| 12.5° | 387.3  | 388.0  | 388.0  | 387.3  | 388.0  | 386.5  | 386.5  | 386.5  |
| 15°   | 406.5  | 405.7  | 405.7  | 405.7  | 405.7  | 405.0  | 405.0  | 405.0  |
| 17.5° | 428.1  | 428.1  | 427.3  | 427.3  | 426.5  | 425.8  | 425.8  | 425.8  |
| 20°   | 453.5  | 452.7  | 451.9  | 451.1  | 450.4  | 448.9  | 448.1  | 448.1  |
| 22.5° | 479.7  | 478.9  | 478.1  | 477.4  | 476.6  | 475.0  | 473.5  | 473.5  |
| 25°   | 508.9  | 507.4  | 506.6  | 505.1  | 503.5  | 501.9  | 501.2  | 500.4  |
| 27.5° | 544.3  | 542.8  | 540.4  | 538.2  | 535.1  | 534.3  | 532.8  | 532.8  |
| 30°   | 586.7  | 584.4  | 581.2  | 577.5  | 574.3  | 571.2  | 569.7  | 569.0  |
| 32.5° | 636.0  | 632.9  | 627.5  | 622.8  | 617.5  | 614.4  | 612.1  | 610.5  |
| 35°   | 693.7  | 689.0  | 682.9  | 676.0  | 669.0  | 663.7  | 659.8  | 659.8  |
| 37.5° | 761.4  | 754.5  | 745.3  | 736.8  | 726.8  | 720.6  | 716.0  | 712.9  |
| 40°   | 835.4  | 825.4  | 813.8  | 803.0  | 791.5  | 783.0  | 776.1  | 776.9  |
| 42.5° | 908.5  | 900.0  | 886.2  | 873.1  | 858.4  | 846.9  | 838.4  | 837.6  |
| 45°   | 985.5  | 974.7  | 957.7  | 940.8  | 923.9  | 910.0  | 900.0  | 898.4  |
| 47.5° | 1057.0 | 1045.5 | 1025.5 | 1004.7 | 986.2  | 970.9  | 960.1  | 958.5  |
| 50°   | 1115.6 | 1101.8 | 1081.0 | 1058.6 | 1038.6 | 1021.7 | 1010.1 | 1007.0 |
| 52.5° | 1153.3 | 1137.9 | 1115.6 | 1088.6 | 1067.1 | 1047.8 | 1034.0 | 1030.1 |
| 55°   | 1159.5 | 1139.5 | 1115.6 | 1085.5 | 1061.7 | 1040.1 | 1024.8 | 1020.1 |
| 57.5° | 1117.1 | 1095.5 | 1074.0 | 1047.8 | 1024.0 | 1000.9 | 988.5  | 982.4  |
| 60°   | 1034.8 | 1017.8 | 1000.1 | 976.2  | 957.0  | 935.5  | 925.4  | 922.4  |
| 62.5° | 940.0  | 925.4  | 909.2  | 884.7  | 868.4  | 849.2  | 839.9  | 836.1  |
| 65°   | 838.4  | 821.5  | 806.1  | 786.1  | 768.3  | 752.2  | 739.1  | 737.6  |
| 67.5° | 726.0  | 708.3  | 695.2  | 677.6  | 659.8  | 644.4  | 636.0  | 631.3  |
| 70°   | 607.5  | 592.8  | 579.7  | 560.5  | 549.0  | 534.3  | 528.2  | 523.5  |
| 72.5° | 489.7  | 481.2  | 465.0  | 452.7  | 439.7  | 428.1  | 424.2  | 419.6  |
| 75°   | 378.8  | 368.8  | 356.5  | 348.8  | 338.8  | 332.6  | 329.5  | 326.4  |
| 77.5° | 277.9  | 269.5  | 262.5  | 259.5  | 254.8  | 248.7  | 246.4  | 244.0  |
| 80°   | 192.5  | 188.6  | 184.0  | 183.2  | 180.2  | 175.5  | 174.7  | 174.0  |
| 82.5° | 124.7  | 122.5  | 120.9  | 120.9  | 119.3  | 116.2  | 115.5  | 115.5  |
| 85°   | 69.3   | 68.5   | 69.3   | 68.5   | 67.0   | 65.4   | 65.4   | 65.4   |
| 87.5° | 23.1   | 23.1   | 23.9   | 24.6   | 22.4   | 22.4   | 21.6   | 21.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)