

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: P144373

Luminaire Tested: **CNC-F02-LED-E1-WQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144373  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: CNC-F02-LED-E1-WQ-8030  
Description: CONCISE LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE 5 SQUARE  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4308.8 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

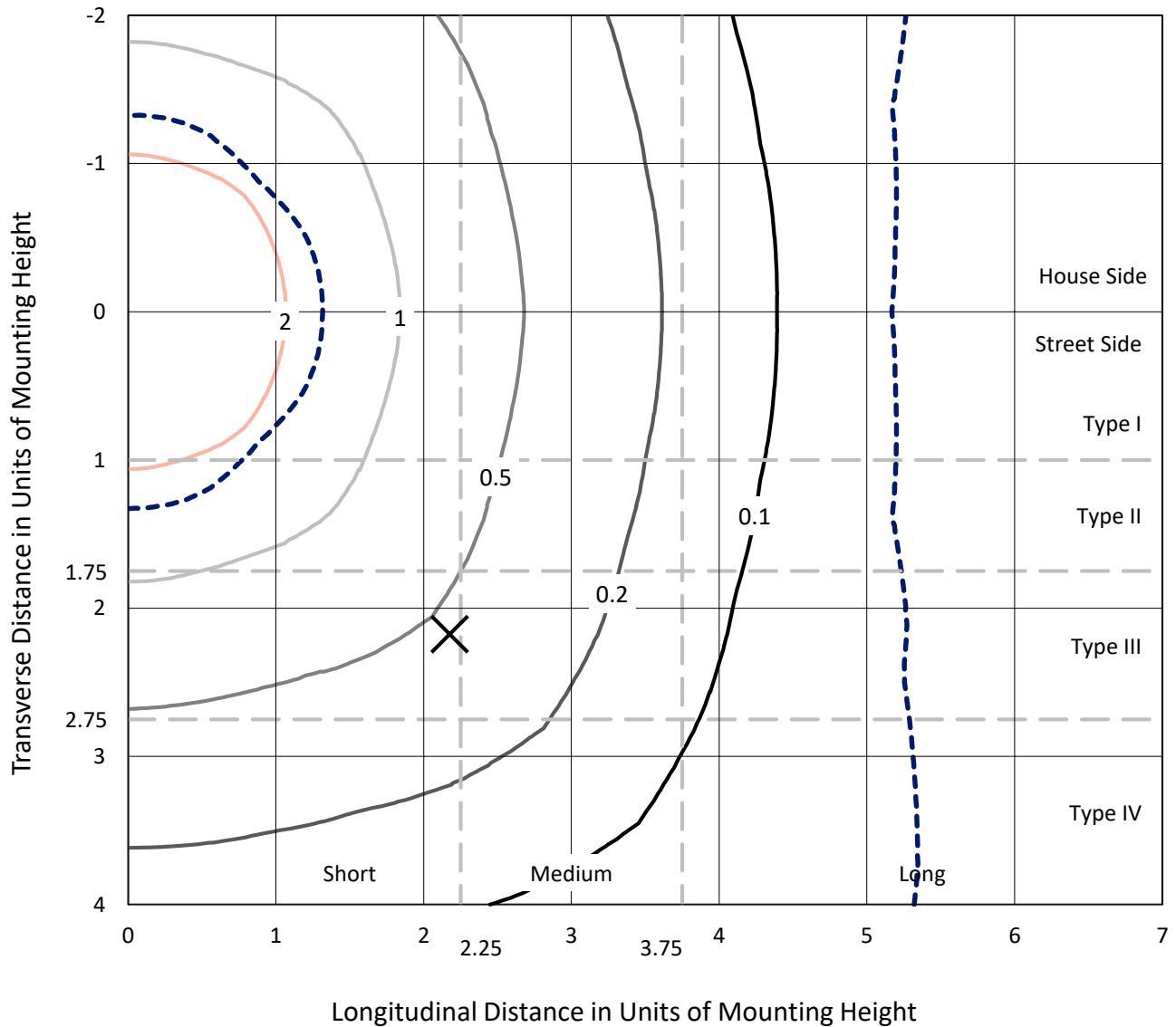
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

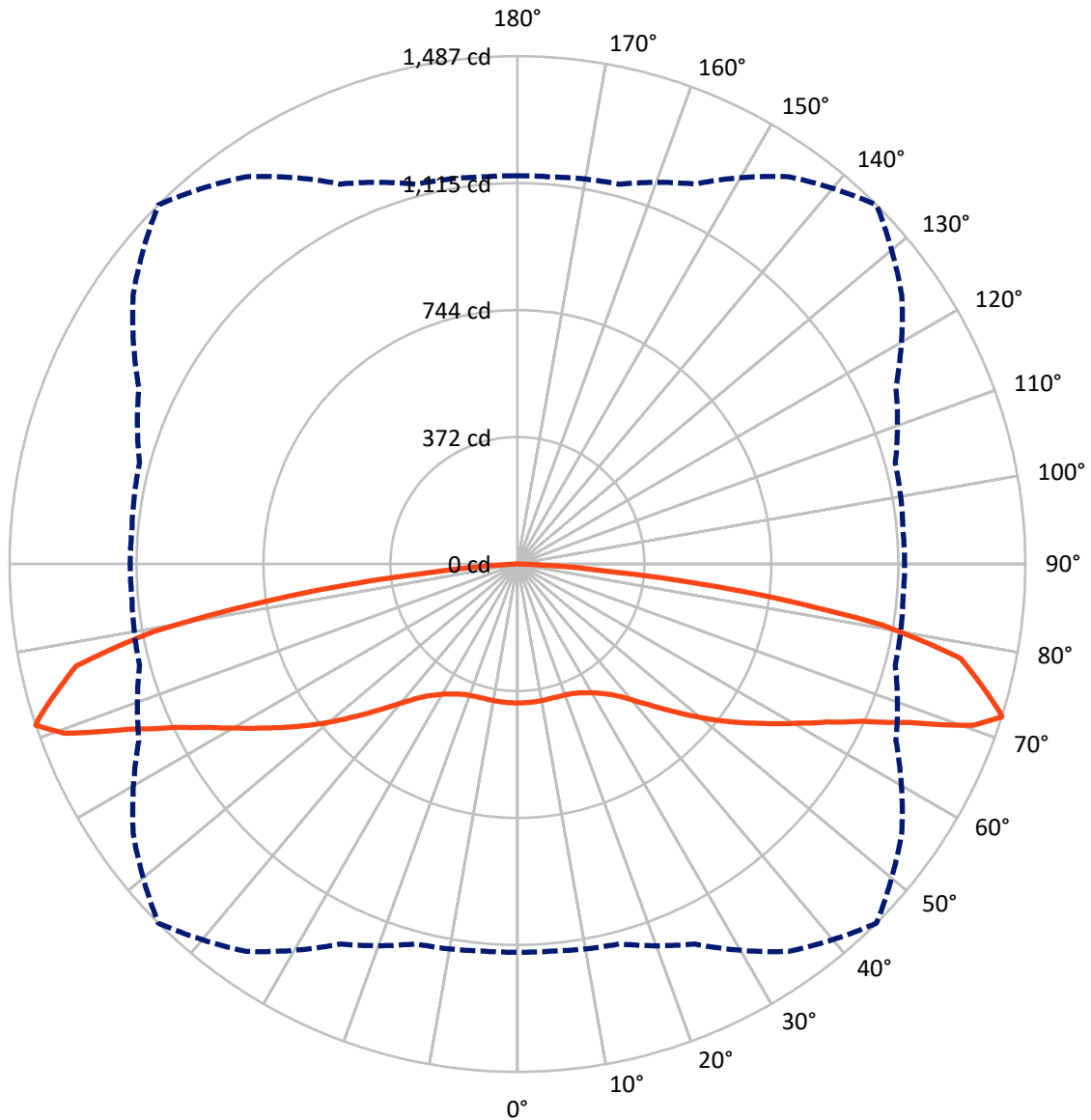
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2154.4   | 0.0    | 2154.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2154.4   | 0.0    | 2154.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4308.8   | 0.0    | 4308.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.8   | 0.9       |
| 10°-20°   | 115.4  | 2.7       |
| 20°-30°   | 193.8  | 4.5       |
| 30°-40°   | 294.9  | 6.8       |
| 40°-50°   | 466.3  | 10.8      |
| 50°-60°   | 712.1  | 16.5      |
| 60°-70°   | 1043.3 | 24.2      |
| 70°-80°   | 1185.3 | 27.5      |
| 80°-90°   | 258.9  | 6.0       |
| 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°    | 4308.8 | 100.0     |
| 0°-180°   | 4308.8 | 100.0     |



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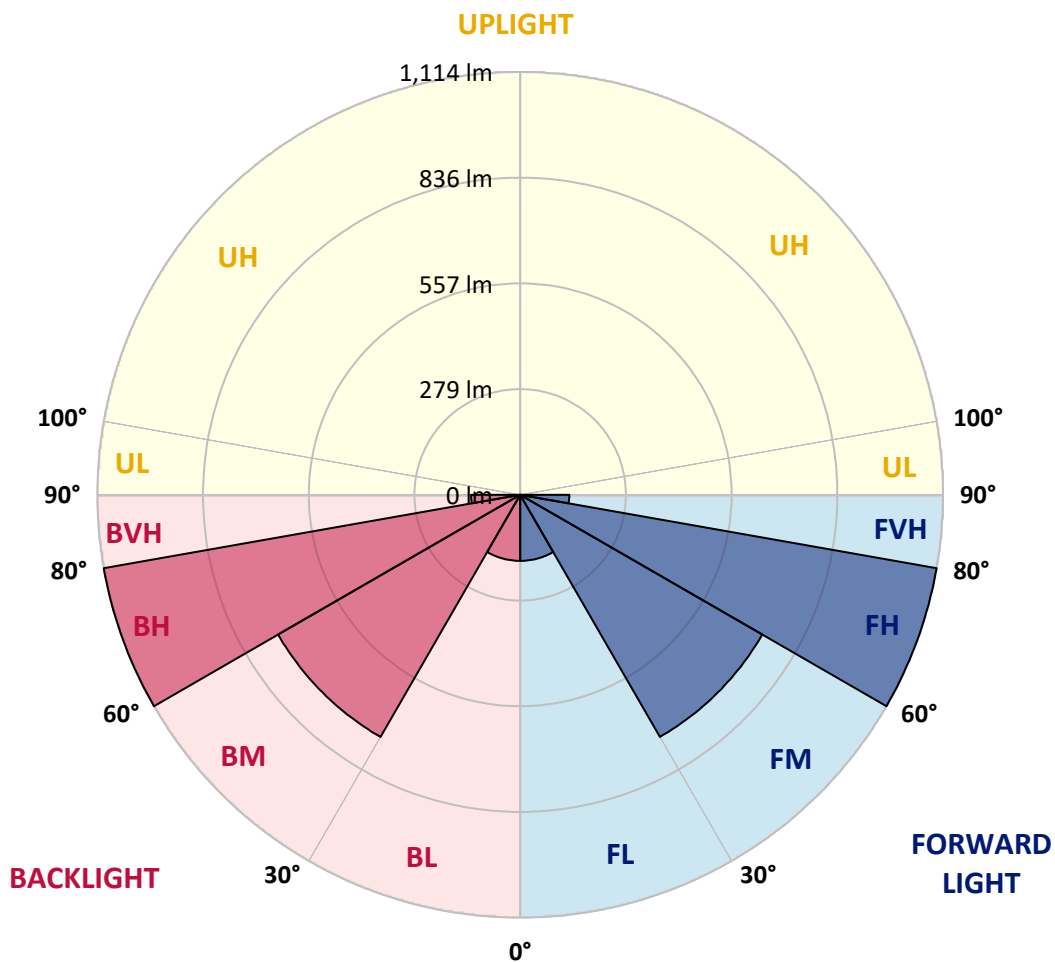
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 174.0  | 4.0       |                         |      |         |
| FM (30°-60°)   | 736.7  | 17.1      |                         |      |         |
| FH (60°-80°)   | 1114.3 | 25.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 129.4  | 3.0       |                         |      | G2/225  |
| BL (0°-30°)    | 174.0  | 4.0       | B1/500                  |      |         |
| BM (30°-60°)   | 736.7  | 17.1      | B1/1000                 |      |         |
| BH (60°-80°)   | 1114.3 | 25.9      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 129.4  | 3.0       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 406.9  | 406.9  | 406.9  | 406.9  | 406.9  | 406.9  | 406.9  | 406.9  | 406.9  | 406.9  | 406.9  |
| 2.5°  | 407.7  | 407.6  | 407.3  | 407.0  | 406.9  | 406.8  | 406.8  | 406.8  | 406.7  | 406.6  | 406.7  |
| 5°    | 407.8  | 407.6  | 407.4  | 407.2  | 407.0  | 406.8  | 406.8  | 406.8  | 406.7  | 406.6  | 406.8  |
| 7.5°  | 407.2  | 407.3  | 407.1  | 406.9  | 406.8  | 406.8  | 406.7  | 406.6  | 406.5  | 406.3  | 406.4  |
| 10°   | 407.3  | 407.8  | 407.4  | 407.0  | 406.9  | 406.8  | 406.5  | 406.2  | 406.1  | 406.0  | 405.9  |
| 12.5° | 407.6  | 408.2  | 407.7  | 407.2  | 407.0  | 406.8  | 406.5  | 406.2  | 406.0  | 405.8  | 405.6  |
| 15°   | 408.5  | 408.8  | 408.4  | 408.0  | 407.6  | 407.2  | 406.9  | 406.6  | 406.2  | 405.8  | 405.6  |
| 17.5° | 409.0  | 409.7  | 409.2  | 408.7  | 408.2  | 407.7  | 407.4  | 407.2  | 406.9  | 406.6  | 406.2  |
| 20°   | 410.0  | 410.6  | 410.2  | 409.8  | 409.6  | 409.2  | 409.0  | 408.8  | 408.6  | 408.5  | 408.0  |
| 22.5° | 411.8  | 412.4  | 412.2  | 412.0  | 412.1  | 412.2  | 412.3  | 412.4  | 412.2  | 412.0  | 411.6  |
| 25°   | 415.5  | 415.6  | 415.8  | 416.1  | 416.5  | 417.0  | 417.3  | 417.6  | 417.8  | 418.0  | 417.4  |
| 27.5° | 422.0  | 422.6  | 422.8  | 423.0  | 423.8  | 424.4  | 425.2  | 426.0  | 426.4  | 426.8  | 426.2  |
| 30°   | 430.6  | 430.6  | 431.1  | 431.6  | 432.7  | 433.9  | 434.9  | 435.8  | 436.6  | 437.4  | 437.0  |
| 32.5° | 441.4  | 442.2  | 442.8  | 443.6  | 445.0  | 446.5  | 448.2  | 449.8  | 450.8  | 451.8  | 451.0  |
| 35°   | 458.0  | 458.9  | 459.6  | 460.2  | 461.8  | 463.3  | 465.2  | 467.0  | 467.9  | 468.8  | 468.3  |
| 37.5° | 481.4  | 481.4  | 482.4  | 483.4  | 484.4  | 485.4  | 487.9  | 490.4  | 491.4  | 492.4  | 491.6  |
| 40°   | 513.1  | 513.2  | 513.4  | 513.7  | 514.6  | 515.4  | 518.5  | 521.6  | 523.4  | 525.2  | 523.5  |
| 42.5° | 549.4  | 551.0  | 550.9  | 550.8  | 551.5  | 552.1  | 555.0  | 558.0  | 560.5  | 563.1  | 562.0  |
| 45°   | 592.4  | 592.1  | 591.6  | 591.0  | 592.8  | 594.7  | 598.9  | 603.1  | 605.4  | 607.7  | 605.6  |
| 47.5° | 635.7  | 635.3  | 634.5  | 633.8  | 635.6  | 637.5  | 643.8  | 650.0  | 653.3  | 656.6  | 653.1  |
| 50°   | 678.9  | 680.6  | 679.6  | 678.6  | 681.4  | 684.2  | 692.1  | 700.0  | 704.9  | 709.7  | 705.6  |
| 52.5° | 726.7  | 728.0  | 726.8  | 725.7  | 729.5  | 733.3  | 742.8  | 752.2  | 758.6  | 765.0  | 759.6  |
| 55°   | 776.2  | 774.6  | 775.2  | 775.8  | 779.5  | 783.2  | 794.7  | 806.2  | 813.9  | 821.6  | 815.5  |
| 57.5° | 822.4  | 823.0  | 822.4  | 821.8  | 827.4  | 833.2  | 847.7  | 862.3  | 871.9  | 881.5  | 873.8  |
| 60°   | 869.8  | 870.0  | 868.6  | 867.2  | 873.4  | 879.6  | 900.4  | 921.4  | 933.8  | 946.3  | 935.8  |
| 62.5° | 922.8  | 922.6  | 920.2  | 917.7  | 925.0  | 932.4  | 958.3  | 984.2  | 1001.4 | 1018.5 | 1005.7 |
| 65°   | 987.7  | 986.0  | 984.6  | 983.2  | 991.7  | 1000.1 | 1032.3 | 1064.4 | 1087.6 | 1110.7 | 1094.2 |
| 67.5° | 1083.4 | 1082.2 | 1079.2 | 1076.3 | 1085.7 | 1095.1 | 1136.4 | 1177.6 | 1207.5 | 1237.4 | 1215.6 |
| 70°   | 1188.8 | 1186.4 | 1188.4 | 1190.4 | 1212.2 | 1234.0 | 1289.2 | 1344.6 | 1380.0 | 1415.4 | 1378.7 |
| 72°   | 1136.8 | 1137.8 | 1144.5 | 1151.3 | 1189.4 | 1227.5 | 1306.1 | 1384.6 | 1435.9 | 1487.1 | 1430.4 |
| 72.5° | 1118.7 | 1119.5 | 1127.2 | 1134.8 | 1171.2 | 1207.6 | 1288.6 | 1369.6 | 1422.7 | 1475.7 | 1417.4 |
| 75°   | 1041.8 | 1044.0 | 1052.8 | 1061.7 | 1098.6 | 1135.4 | 1217.1 | 1298.8 | 1349.6 | 1400.4 | 1342.1 |
| 77.5° | 916.2  | 923.2  | 932.1  | 941.2  | 985.0  | 1029.0 | 1121.4 | 1213.8 | 1269.8 | 1325.8 | 1259.7 |
| 80°   | 699.2  | 696.8  | 712.2  | 727.7  | 769.6  | 811.6  | 883.0  | 954.5  | 1019.1 | 1083.7 | 1009.3 |
| 82.5° | 271.8  | 277.7  | 309.8  | 341.8  | 385.8  | 429.8  | 493.8  | 557.8  | 616.0  | 674.2  | 612.2  |
| 85°   | 28.0   | 32.0   | 43.4   | 54.9   | 78.8   | 102.8  | 141.8  | 180.8  | 219.1  | 257.4  | 215.8  |
| 87.5° | 11.3   | 12.4   | 16.0   | 19.5   | 20.4   | 21.3   | 25.8   | 30.2   | 30.0   | 29.8   | 29.4   |
| 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°    | 406.9  | 406.9  | 406.9  | 406.9  | 406.9  | 406.9  | 406.9  | 406.9  |
| 2.5°  | 406.8  | 406.9  | 407.0  | 407.0  | 407.0  | 407.2  | 407.4  | 407.2  |
| 5°    | 406.9  | 407.0  | 407.0  | 407.0  | 407.0  | 407.2  | 407.4  | 407.2  |
| 7.5°  | 406.5  | 406.5  | 406.4  | 406.7  | 406.9  | 407.0  | 407.0  | 406.9  |
| 10°   | 405.8  | 405.8  | 405.9  | 406.1  | 406.4  | 406.6  | 406.8  | 406.9  |
| 12.5° | 405.4  | 405.5  | 405.5  | 405.7  | 406.0  | 406.1  | 406.3  | 406.6  |
| 15°   | 405.4  | 405.4  | 405.5  | 405.6  | 405.8  | 406.1  | 406.4  | 406.6  |
| 17.5° | 405.9  | 405.8  | 405.6  | 405.8  | 406.0  | 406.3  | 406.6  | 406.9  |
| 20°   | 407.4  | 407.2  | 407.0  | 407.0  | 407.0  | 407.4  | 407.8  | 407.7  |
| 22.5° | 411.1  | 410.4  | 409.6  | 409.6  | 409.5  | 409.5  | 409.6  | 409.7  |
| 25°   | 416.8  | 415.6  | 414.6  | 414.2  | 413.9  | 413.7  | 413.6  | 413.9  |
| 27.5° | 425.6  | 424.3  | 423.0  | 422.3  | 421.6  | 421.1  | 420.7  | 420.8  |
| 30°   | 436.4  | 435.0  | 433.5  | 432.2  | 431.0  | 430.4  | 429.9  | 430.0  |
| 32.5° | 450.2  | 448.5  | 446.8  | 445.1  | 443.4  | 442.6  | 441.8  | 442.0  |
| 35°   | 467.8  | 465.8  | 463.8  | 462.4  | 461.0  | 459.8  | 458.6  | 459.6  |
| 37.5° | 490.8  | 488.9  | 487.0  | 486.1  | 485.2  | 484.2  | 483.1  | 483.3  |
| 40°   | 521.8  | 519.8  | 517.8  | 517.0  | 516.3  | 515.0  | 513.6  | 513.9  |
| 42.5° | 561.0  | 558.1  | 555.2  | 553.8  | 552.4  | 551.8  | 551.2  | 551.5  |
| 45°   | 603.4  | 600.4  | 597.5  | 596.3  | 595.2  | 593.5  | 591.8  | 593.3  |
| 47.5° | 649.6  | 645.9  | 642.2  | 640.2  | 638.0  | 638.6  | 639.2  | 637.9  |
| 50°   | 701.6  | 695.4  | 689.2  | 686.8  | 684.3  | 684.3  | 684.3  | 684.2  |
| 52.5° | 754.2  | 745.6  | 737.0  | 734.9  | 732.8  | 732.3  | 731.8  | 731.3  |
| 55°   | 809.4  | 798.8  | 788.2  | 784.4  | 780.5  | 781.0  | 781.6  | 783.1  |
| 57.5° | 866.2  | 852.3  | 838.4  | 834.0  | 829.6  | 829.9  | 830.2  | 832.7  |
| 60°   | 925.2  | 907.4  | 889.4  | 884.5  | 879.6  | 880.9  | 882.2  | 883.7  |
| 62.5° | 992.8  | 971.2  | 949.6  | 942.9  | 936.2  | 937.9  | 939.6  | 943.7  |
| 65°   | 1077.7 | 1050.7 | 1023.6 | 1016.8 | 1009.8 | 1010.6 | 1011.4 | 1018.3 |
| 67.5° | 1193.8 | 1157.8 | 1121.8 | 1115.4 | 1109.0 | 1110.2 | 1111.3 | 1122.6 |
| 70°   | 1342.1 | 1288.7 | 1235.3 | 1209.0 | 1182.8 | 1178.6 | 1174.6 | 1180.5 |
| 72°   | 1373.8 | 1298.4 | 1223.1 | 1184.3 | 1145.6 | 1139.5 | 1133.4 | 1134.0 |
| 72.5° | 1359.2 | 1283.0 | 1206.8 | 1169.1 | 1131.5 | 1126.6 | 1121.6 | 1120.6 |
| 75°   | 1283.8 | 1209.3 | 1134.8 | 1095.9 | 1057.0 | 1047.6 | 1038.2 | 1038.1 |
| 77.5° | 1193.5 | 1099.5 | 1005.6 | 963.6  | 921.6  | 911.8  | 902.0  | 894.3  |
| 80°   | 934.8  | 850.6  | 766.4  | 723.8  | 681.3  | 665.6  | 649.8  | 640.4  |
| 82.5° | 550.2  | 472.8  | 395.3  | 341.2  | 287.2  | 271.0  | 254.8  | 232.2  |
| 85°   | 174.4  | 134.1  | 93.9   | 73.3   | 52.7   | 42.6   | 32.4   | 28.4   |
| 87.5° | 29.0   | 23.6   | 18.1   | 17.5   | 16.8   | 13.2   | 9.6    | 8.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)