

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: P197853

Luminaire Tested: **TT-C3-LED-E1-5WQ-PM-CG-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115498)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C3-LED-E1-5WQ-PM-CG-8030  
Description: TOPTIER LED AREA/SITE LUMINAIRE  
WIDE DISTRIBUTION WITH CLEAR GLASS LENS  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4734.5 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G1

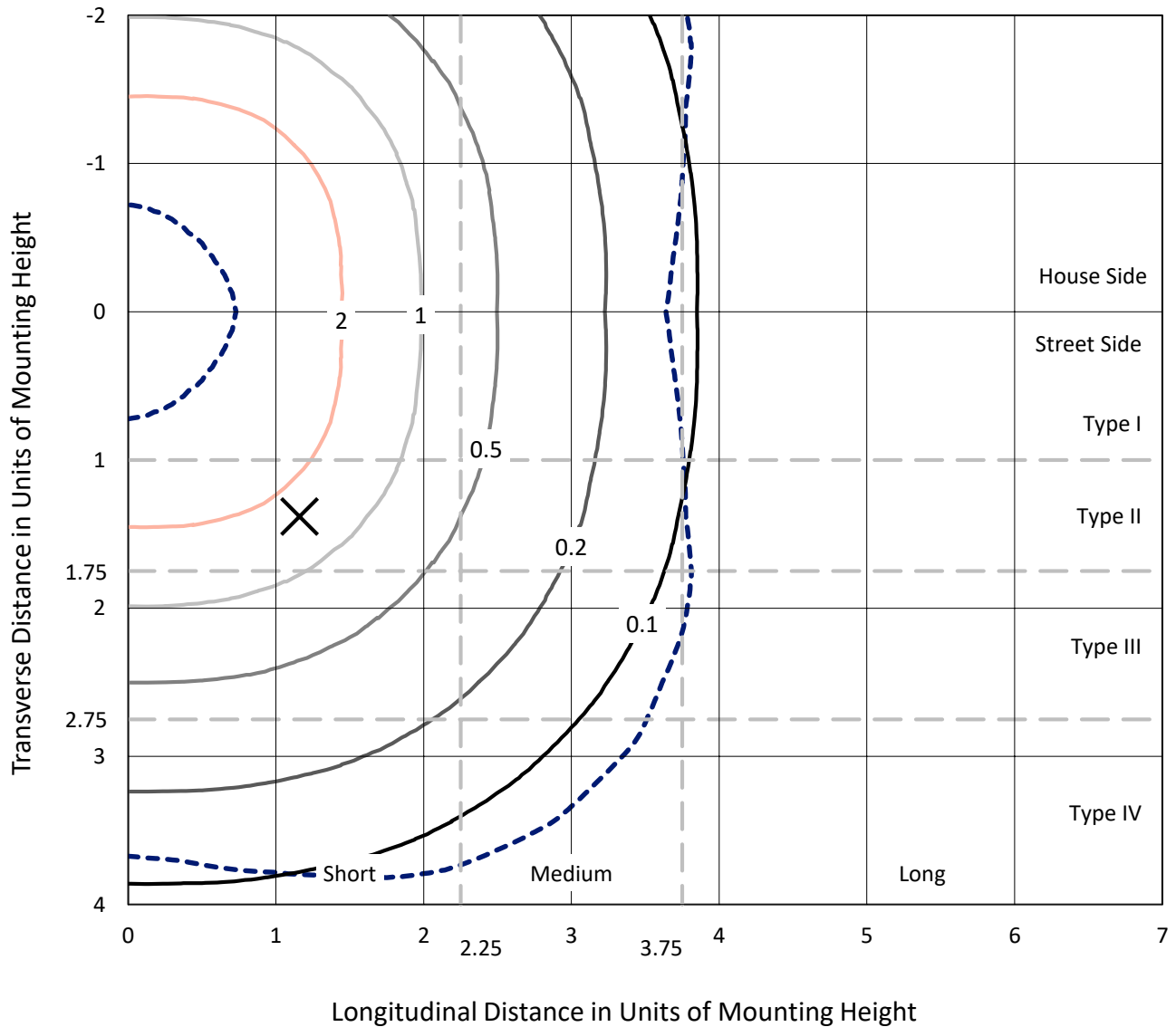
Input Watts (W): 45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

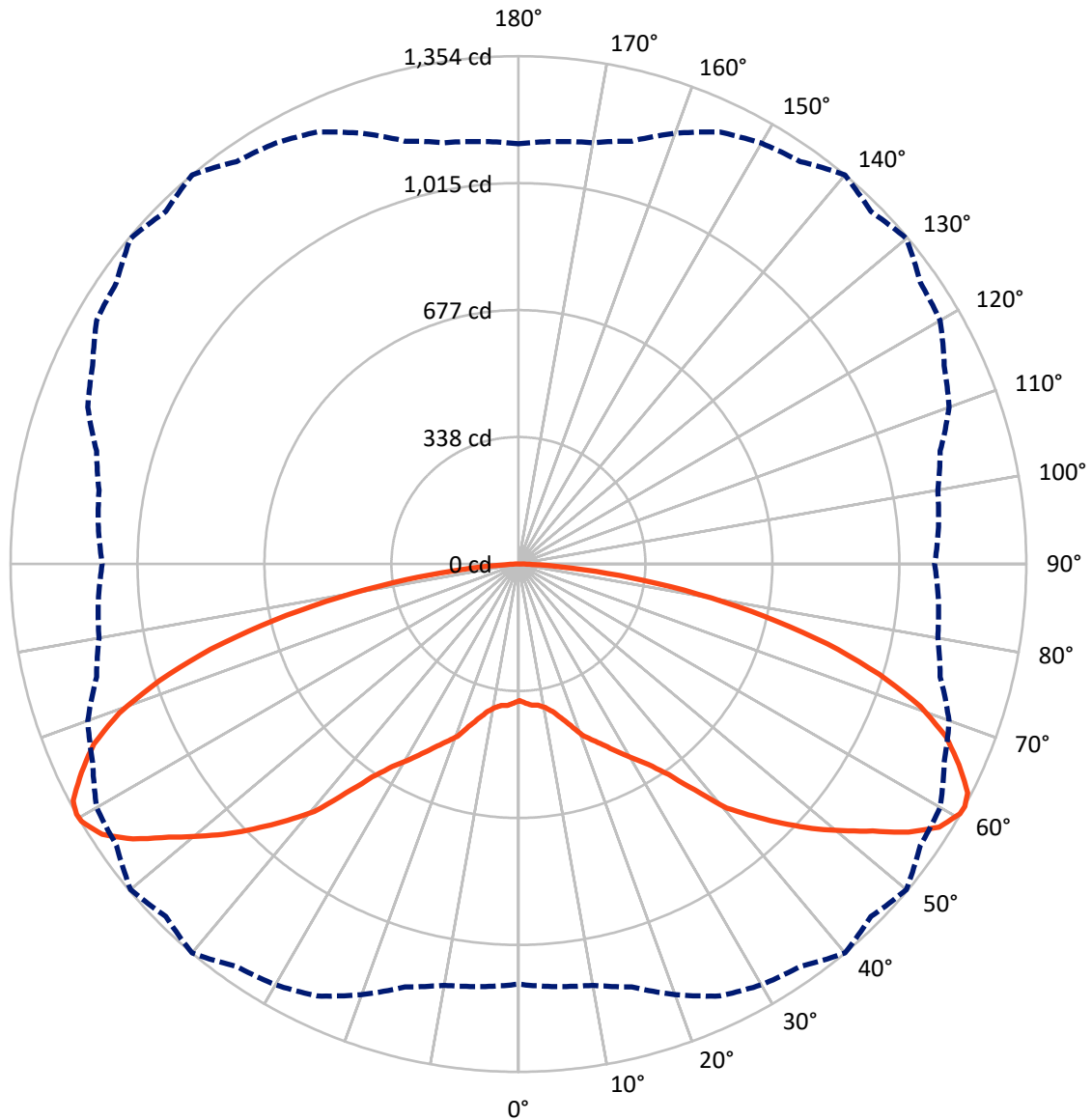
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 61-Deg Vertical

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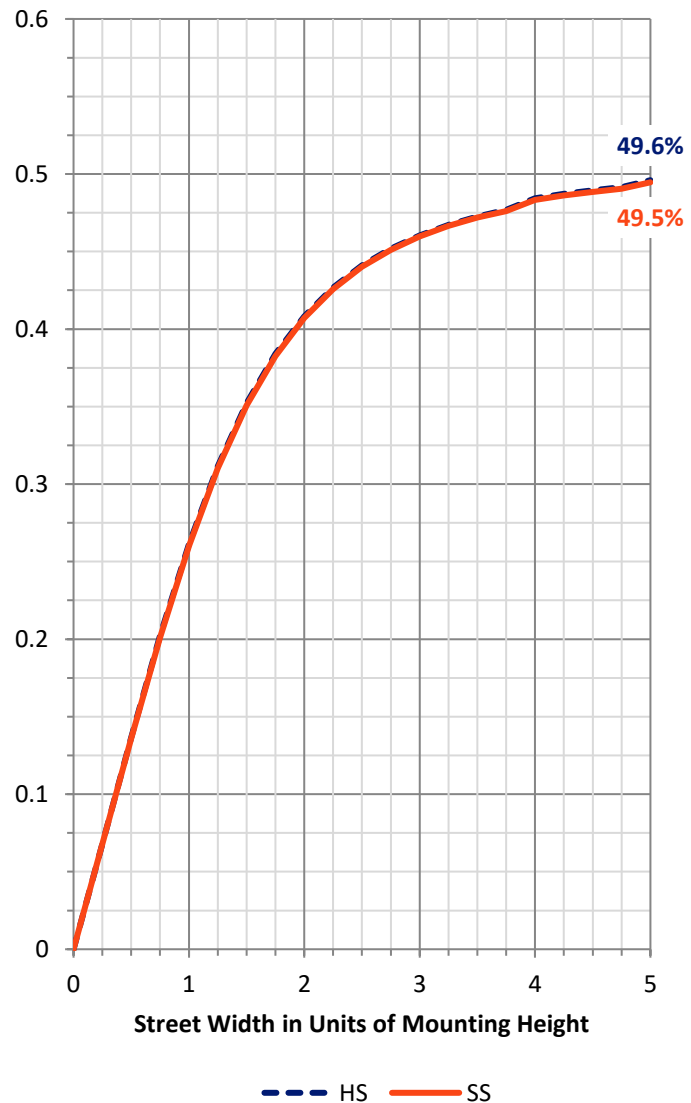
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2367.2   | 0.0    | 2367.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2367.2   | 0.0    | 2367.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4734.5   | 0.0    | 4734.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.3   | 0.8       |
| 10°-20°   | 122.4  | 2.6       |
| 20°-30°   | 248.3  | 5.2       |
| 30°-40°   | 431.8  | 9.1       |
| 40°-50°   | 726.8  | 15.4      |
| 50°-60°   | 1047.1 | 22.1      |
| 60°-70°   | 1161.9 | 24.5      |
| 70°-80°   | 789.1  | 16.7      |
| 80°-90°   | 170.9  | 3.6       |
| 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°    | 4734.5 | 100.0     |
| 0°-180°   | 4734.5 | 100.0     |



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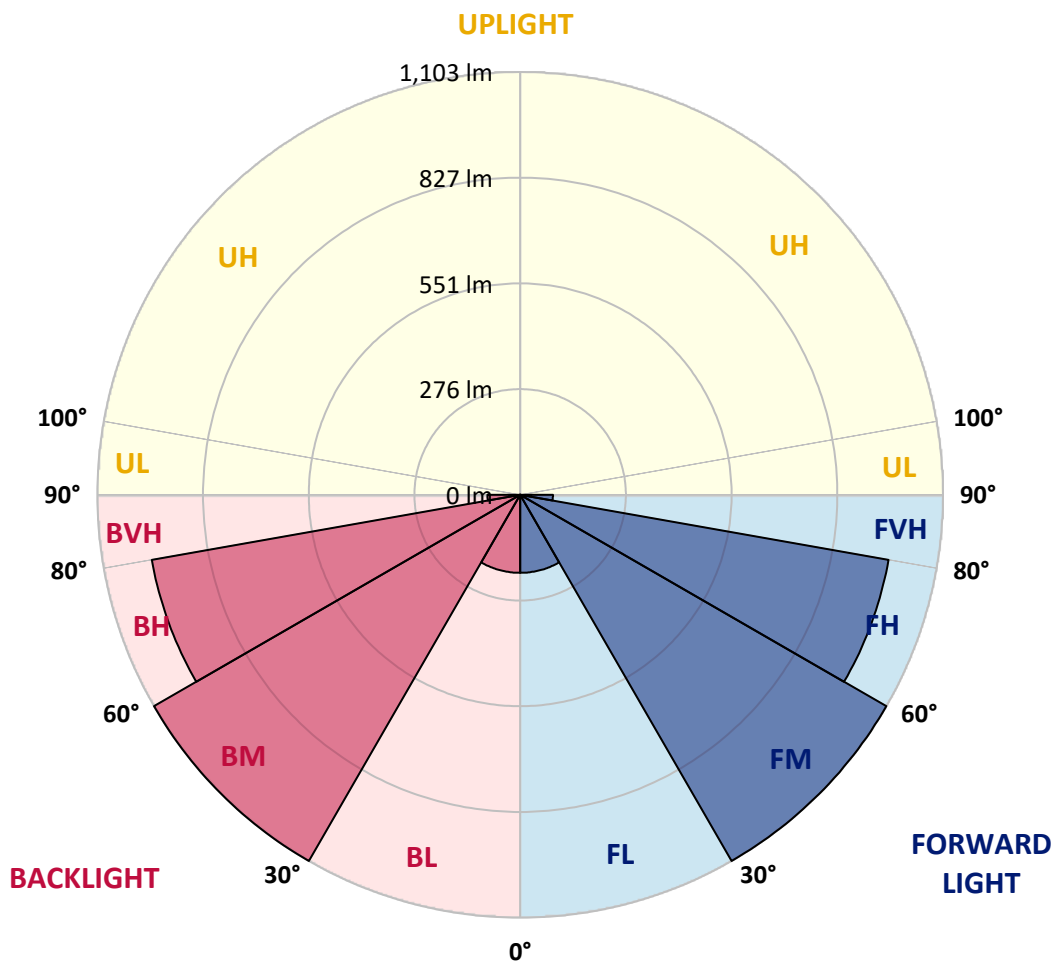
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 203.5  | 4.3       |                         |      |         |
| FM   | (30°-60°)   | 1102.8 | 23.3      |                         |      |         |
| FH   | (60°-80°)   | 975.5  | 20.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 85.5   | 1.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 203.5  | 4.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1102.8 | 23.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 975.5  | 20.6      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 85.5   | 1.8       |                         |      | 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°    | 363.7  | 363.7  | 363.7  | 363.7  | 363.7  | 363.7  | 363.7  | 363.7  | 363.7  | 363.7  | 363.7  |
| 2.5°  | 372.3  | 372.3  | 372.3  | 372.3  | 372.3  | 371.4  | 372.3  | 371.4  | 371.4  | 371.4  | 371.4  |
| 5°    | 375.2  | 376.2  | 376.2  | 376.2  | 376.2  | 377.1  | 377.1  | 378.1  | 378.1  | 378.1  | 378.1  |
| 7.5°  | 378.1  | 378.1  | 378.1  | 378.1  | 378.1  | 378.1  | 379.0  | 379.0  | 380.0  | 380.0  | 381.0  |
| 10°   | 389.6  | 389.6  | 390.5  | 390.5  | 389.6  | 389.6  | 389.6  | 388.6  | 388.6  | 387.7  | 387.7  |
| 12.5° | 405.8  | 405.8  | 406.8  | 407.8  | 407.8  | 406.8  | 405.8  | 403.9  | 403.0  | 403.0  | 403.0  |
| 15°   | 418.3  | 419.3  | 421.2  | 423.1  | 424.0  | 424.0  | 425.0  | 425.0  | 425.0  | 424.0  | 423.1  |
| 17.5° | 442.2  | 442.2  | 443.2  | 444.1  | 444.1  | 445.1  | 447.0  | 448.9  | 452.8  | 453.7  | 450.8  |
| 20°   | 476.7  | 477.6  | 480.5  | 479.6  | 479.6  | 481.5  | 483.4  | 484.3  | 487.2  | 489.1  | 489.1  |
| 22.5° | 502.5  | 504.4  | 508.3  | 508.3  | 507.3  | 508.3  | 510.2  | 510.2  | 510.2  | 509.2  | 511.1  |
| 25°   | 522.6  | 524.5  | 527.4  | 527.4  | 529.3  | 534.1  | 539.9  | 538.9  | 536.0  | 536.0  | 535.1  |
| 27.5° | 549.4  | 550.4  | 552.3  | 552.3  | 555.2  | 558.0  | 561.9  | 565.7  | 567.6  | 566.7  | 564.7  |
| 30°   | 582.9  | 584.8  | 586.8  | 583.9  | 588.7  | 591.5  | 593.5  | 593.5  | 601.1  | 604.9  | 598.2  |
| 32.5° | 607.8  | 611.6  | 615.5  | 618.3  | 627.9  | 632.7  | 629.8  | 632.7  | 636.5  | 640.4  | 640.4  |
| 35°   | 649.0  | 652.8  | 655.7  | 657.6  | 667.2  | 673.9  | 681.5  | 689.2  | 688.2  | 685.3  | 691.1  |
| 37.5° | 708.3  | 712.2  | 715.0  | 718.9  | 731.3  | 736.1  | 741.8  | 758.1  | 763.8  | 756.2  | 760.0  |
| 40°   | 771.5  | 778.2  | 787.8  | 799.3  | 817.4  | 823.2  | 832.8  | 844.2  | 854.8  | 858.6  | 849.0  |
| 42.5° | 826.1  | 833.7  | 835.6  | 853.8  | 875.8  | 893.1  | 906.5  | 909.3  | 918.9  | 927.5  | 920.8  |
| 45°   | 884.4  | 891.1  | 895.9  | 911.2  | 923.7  | 947.6  | 969.6  | 980.2  | 985.0  | 984.0  | 991.7  |
| 47.5° | 939.0  | 946.7  | 953.4  | 969.6  | 985.0  | 1005.1 | 1019.4 | 1044.3 | 1052.9 | 1041.4 | 1053.9 |
| 50°   | 972.5  | 982.1  | 990.7  | 1021.3 | 1048.1 | 1069.2 | 1080.7 | 1101.7 | 1117.0 | 1109.4 | 1112.3 |
| 52.5° | 1028.0 | 1031.9 | 1038.6 | 1055.8 | 1091.2 | 1140.0 | 1151.5 | 1163.0 | 1182.1 | 1191.7 | 1174.5 |
| 55°   | 1098.9 | 1109.4 | 1119.0 | 1141.0 | 1159.2 | 1195.5 | 1248.2 | 1262.5 | 1261.6 | 1291.3 | 1264.5 |
| 57.5° | 1114.2 | 1129.5 | 1148.6 | 1188.8 | 1224.2 | 1245.3 | 1278.8 | 1319.0 | 1322.8 | 1324.8 | 1328.6 |
| 60°   | 1116.1 | 1125.7 | 1138.1 | 1171.6 | 1233.8 | 1272.1 | 1291.3 | 1317.1 | 1351.6 | 1326.7 | 1352.5 |
| 61°   | 1119.9 | 1130.4 | 1140.0 | 1166.8 | 1221.4 | 1270.2 | 1295.1 | 1309.4 | 1353.5 | 1328.6 | 1349.6 |
| 62.5° | 1113.2 | 1125.7 | 1140.0 | 1165.9 | 1202.2 | 1252.0 | 1299.9 | 1299.9 | 1343.9 | 1327.6 | 1339.1 |
| 65°   | 1073.0 | 1084.5 | 1112.3 | 1145.8 | 1189.8 | 1215.6 | 1265.4 | 1297.0 | 1290.3 | 1319.0 | 1290.3 |
| 67.5° | 1005.1 | 1014.6 | 1038.6 | 1077.8 | 1125.7 | 1162.0 | 1185.0 | 1235.7 | 1229.0 | 1258.7 | 1226.2 |
| 70°   | 909.3  | 921.8  | 951.4  | 978.3  | 1023.2 | 1061.5 | 1092.2 | 1122.8 | 1136.2 | 1133.3 | 1135.2 |
| 72.5° | 794.5  | 803.1  | 829.9  | 859.6  | 895.0  | 938.0  | 965.8  | 985.0  | 1006.0 | 1005.1 | 1008.9 |
| 75°   | 661.4  | 669.1  | 692.0  | 714.1  | 748.5  | 782.0  | 813.6  | 833.7  | 850.9  | 850.0  | 846.2  |
| 77.5° | 510.2  | 518.8  | 544.6  | 563.8  | 580.1  | 617.4  | 641.3  | 654.7  | 669.1  | 669.1  | 671.0  |
| 80°   | 356.1  | 361.8  | 381.9  | 402.0  | 417.3  | 435.5  | 466.2  | 469.0  | 485.3  | 481.5  | 485.3  |
| 82.5° | 214.4  | 218.2  | 233.6  | 245.0  | 255.6  | 272.8  | 287.2  | 292.9  | 302.5  | 298.6  | 304.4  |
| 85°   | 96.7   | 98.6   | 108.2  | 114.9  | 119.6  | 129.2  | 136.9  | 139.8  | 144.5  | 143.6  | 147.4  |
| 87.5° | 20.1   | 22.0   | 24.9   | 26.8   | 27.8   | 31.6   | 34.5   | 34.5   | 36.4   | 36.4   | 37.3   |
| 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°    | 363.7  | 363.7  | 363.7  | 363.7  | 363.7  | 363.7  | 363.7  | 363.7  |
| 2.5°  | 371.4  | 372.3  | 371.4  | 371.4  | 371.4  | 372.3  | 371.4  | 372.3  |
| 5°    | 378.1  | 378.1  | 378.1  | 377.1  | 376.2  | 376.2  | 376.2  | 375.2  |
| 7.5°  | 381.9  | 381.9  | 381.0  | 380.0  | 379.0  | 380.0  | 380.0  | 380.0  |
| 10°   | 389.6  | 391.5  | 392.4  | 392.4  | 391.5  | 391.5  | 391.5  | 390.5  |
| 12.5° | 403.0  | 403.9  | 406.8  | 407.8  | 408.7  | 407.8  | 404.9  | 403.9  |
| 15°   | 421.2  | 421.2  | 422.1  | 424.0  | 424.0  | 420.2  | 417.3  | 416.4  |
| 17.5° | 447.0  | 446.1  | 444.1  | 444.1  | 445.1  | 443.2  | 440.3  | 440.3  |
| 20°   | 486.3  | 482.4  | 480.5  | 477.6  | 480.5  | 480.5  | 474.8  | 471.9  |
| 22.5° | 514.0  | 510.2  | 505.4  | 502.5  | 506.4  | 509.2  | 502.5  | 498.7  |
| 25°   | 537.9  | 538.9  | 531.2  | 527.4  | 528.4  | 530.3  | 521.7  | 520.7  |
| 27.5° | 562.8  | 564.7  | 560.9  | 554.2  | 552.3  | 556.1  | 549.4  | 547.5  |
| 30°   | 593.5  | 592.5  | 594.4  | 585.8  | 582.0  | 584.8  | 583.9  | 579.1  |
| 32.5° | 633.7  | 628.9  | 630.8  | 623.1  | 615.5  | 615.5  | 609.7  | 604.0  |
| 35°   | 689.2  | 678.6  | 673.9  | 669.1  | 654.7  | 655.7  | 650.9  | 646.1  |
| 37.5° | 761.9  | 745.7  | 732.3  | 735.1  | 714.1  | 712.2  | 709.3  | 702.6  |
| 40°   | 845.2  | 837.5  | 822.2  | 813.6  | 791.6  | 781.1  | 777.2  | 764.8  |
| 42.5° | 907.4  | 909.3  | 886.4  | 871.0  | 853.8  | 835.6  | 833.7  | 821.3  |
| 45°   | 974.4  | 967.7  | 946.7  | 921.8  | 914.1  | 892.1  | 889.2  | 876.8  |
| 47.5° | 1041.4 | 1018.5 | 1006.0 | 980.2  | 967.7  | 940.0  | 941.9  | 930.4  |
| 50°   | 1104.6 | 1077.8 | 1066.3 | 1035.7 | 1016.5 | 988.8  | 982.1  | 962.9  |
| 52.5° | 1171.6 | 1146.7 | 1128.5 | 1089.3 | 1061.5 | 1040.5 | 1029.0 | 1021.3 |
| 55°   | 1261.6 | 1236.7 | 1195.5 | 1159.2 | 1136.2 | 1101.7 | 1097.9 | 1084.5 |
| 57.5° | 1303.7 | 1285.5 | 1240.5 | 1214.7 | 1173.5 | 1138.1 | 1126.6 | 1099.8 |
| 60°   | 1308.5 | 1300.8 | 1253.0 | 1228.1 | 1167.8 | 1139.1 | 1124.7 | 1108.4 |
| 61°   | 1307.5 | 1298.0 | 1252.0 | 1221.4 | 1163.9 | 1135.2 | 1123.7 | 1109.4 |
| 62.5° | 1303.7 | 1292.2 | 1241.5 | 1209.9 | 1156.3 | 1128.5 | 1119.0 | 1097.9 |
| 65°   | 1291.3 | 1259.7 | 1215.6 | 1186.9 | 1128.5 | 1103.6 | 1080.7 | 1059.6 |
| 67.5° | 1236.7 | 1177.3 | 1159.2 | 1122.8 | 1063.4 | 1035.7 | 1014.6 | 996.4  |
| 70°   | 1119.9 | 1080.7 | 1061.5 | 1016.5 | 968.7  | 945.7  | 921.8  | 898.8  |
| 72.5° | 983.0  | 957.2  | 940.9  | 886.4  | 850.9  | 828.0  | 806.0  | 783.9  |
| 75°   | 829.9  | 810.7  | 781.1  | 739.9  | 708.3  | 685.3  | 665.2  | 654.7  |
| 77.5° | 651.8  | 639.4  | 616.4  | 575.3  | 558.0  | 537.9  | 517.8  | 501.6  |
| 80°   | 469.0  | 459.5  | 441.3  | 411.6  | 397.2  | 377.1  | 362.8  | 349.4  |
| 82.5° | 291.9  | 284.3  | 273.8  | 251.7  | 246.0  | 233.6  | 220.2  | 210.6  |
| 85°   | 139.8  | 135.0  | 131.1  | 116.8  | 115.8  | 105.3  | 100.5  | 94.8   |
| 87.5° | 36.4   | 35.4   | 33.5   | 28.7   | 27.8   | 24.9   | 23.0   | 20.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)