

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: P197736

Luminaire Tested: **TT-C3-LED-E1-WQ-LWR-LW-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)  
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-WQ-LWR-LW-7060  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR  
Light Source: (168) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4889.7 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G2

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

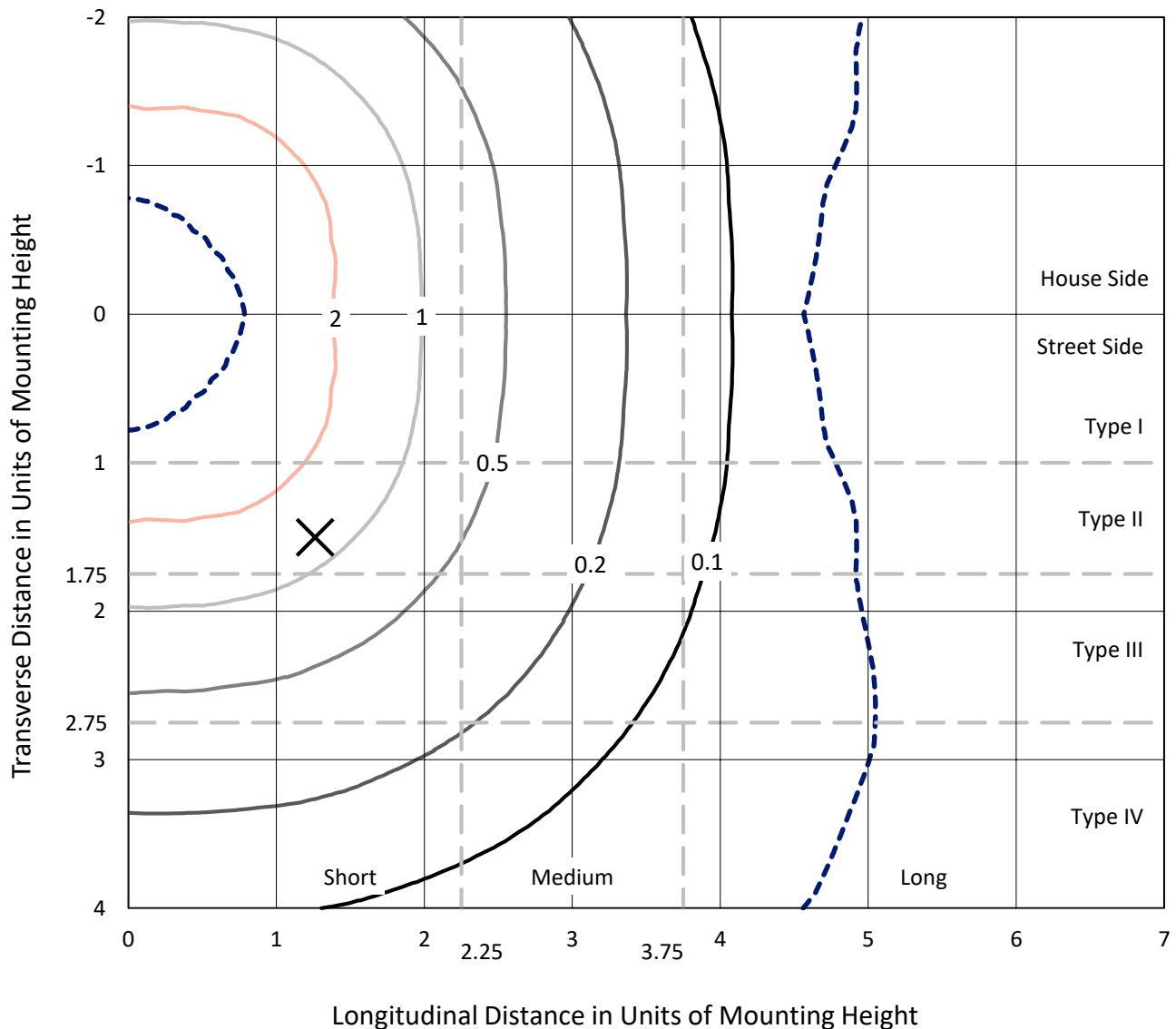


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

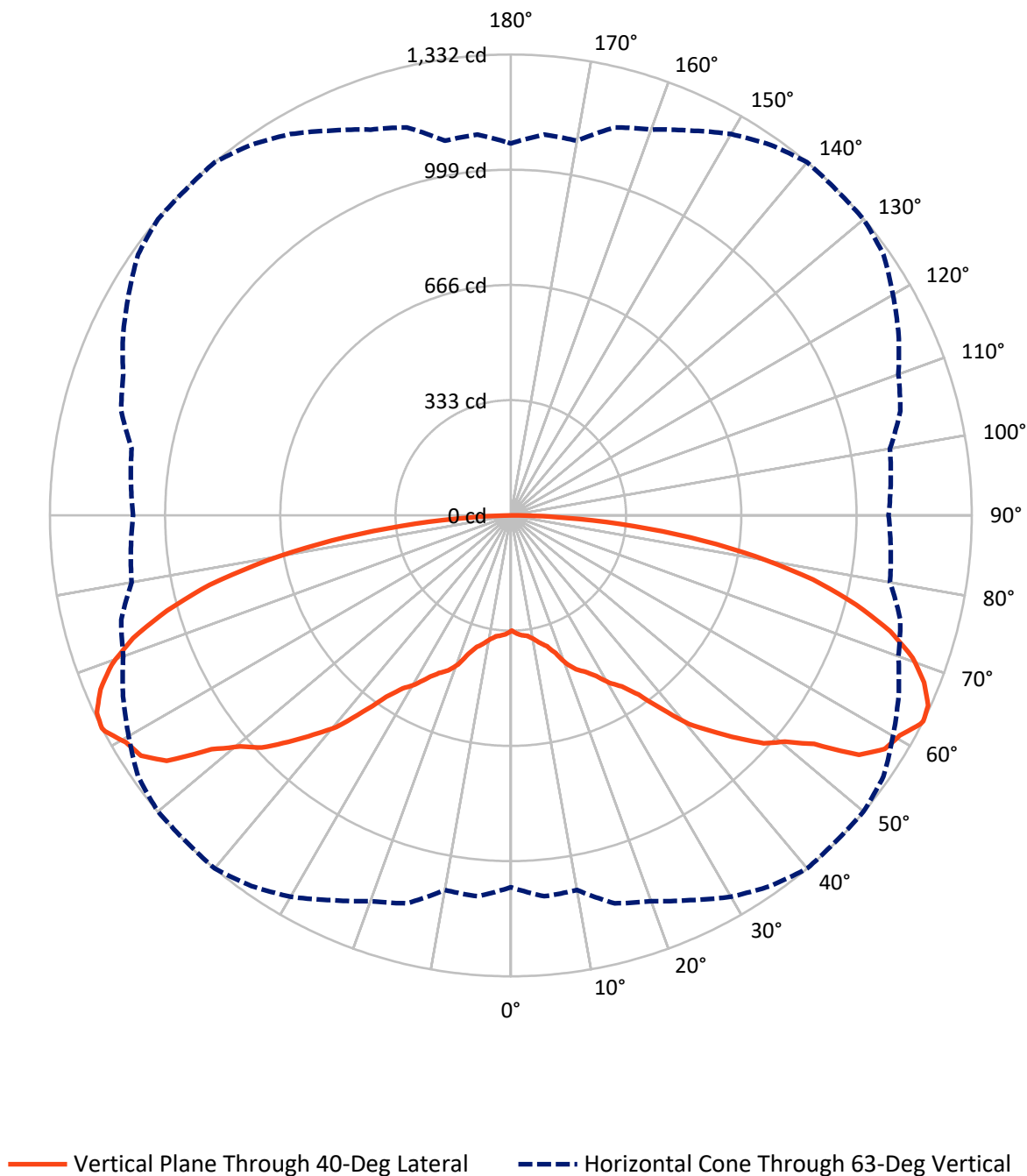


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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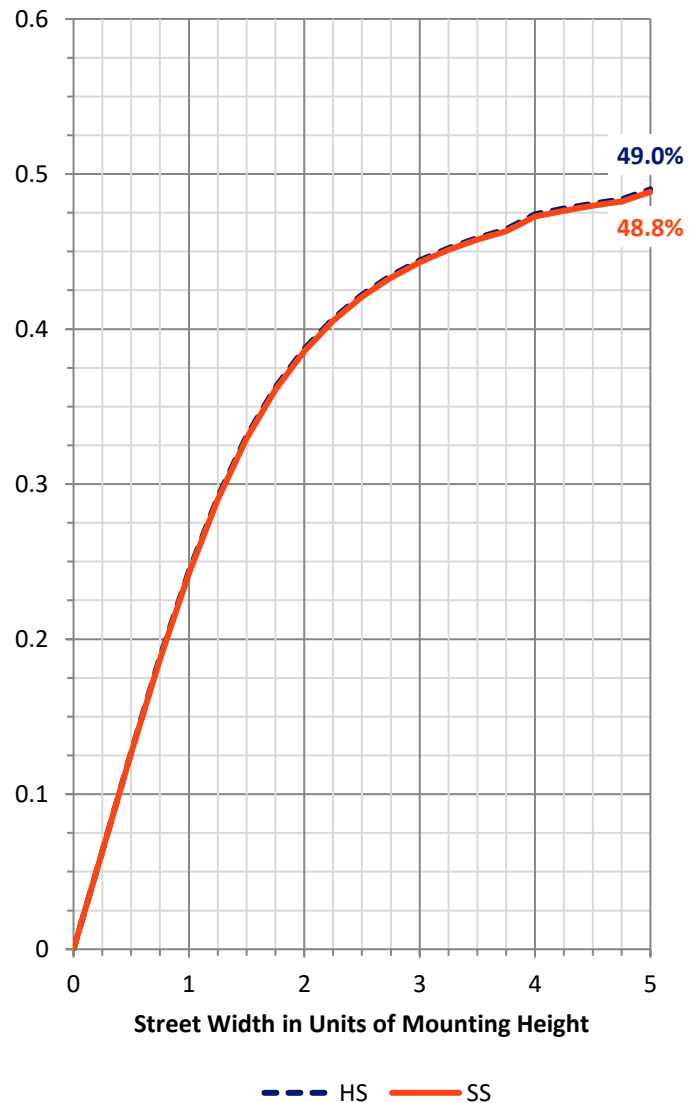
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2444.9   | 0.0    | 2444.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2444.9   | 0.0    | 2444.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4889.7   | 0.0    | 4889.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.6   | 0.7       |
| 10°-20°   | 114.2  | 2.3       |
| 20°-30°   | 232.2  | 4.7       |
| 30°-40°   | 400.3  | 8.2       |
| 40°-50°   | 674.2  | 13.8      |
| 50°-60°   | 992.9  | 20.3      |
| 60°-70°   | 1180.7 | 24.1      |
| 70°-80°   | 955.8  | 19.5      |
| 80°-90°   | 305.8  | 6.3       |
| 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°    | 4889.7 | 100.0     |
| 0°-180°   | 4889.7 | 100.0     |

**Coefficient of Utilization**



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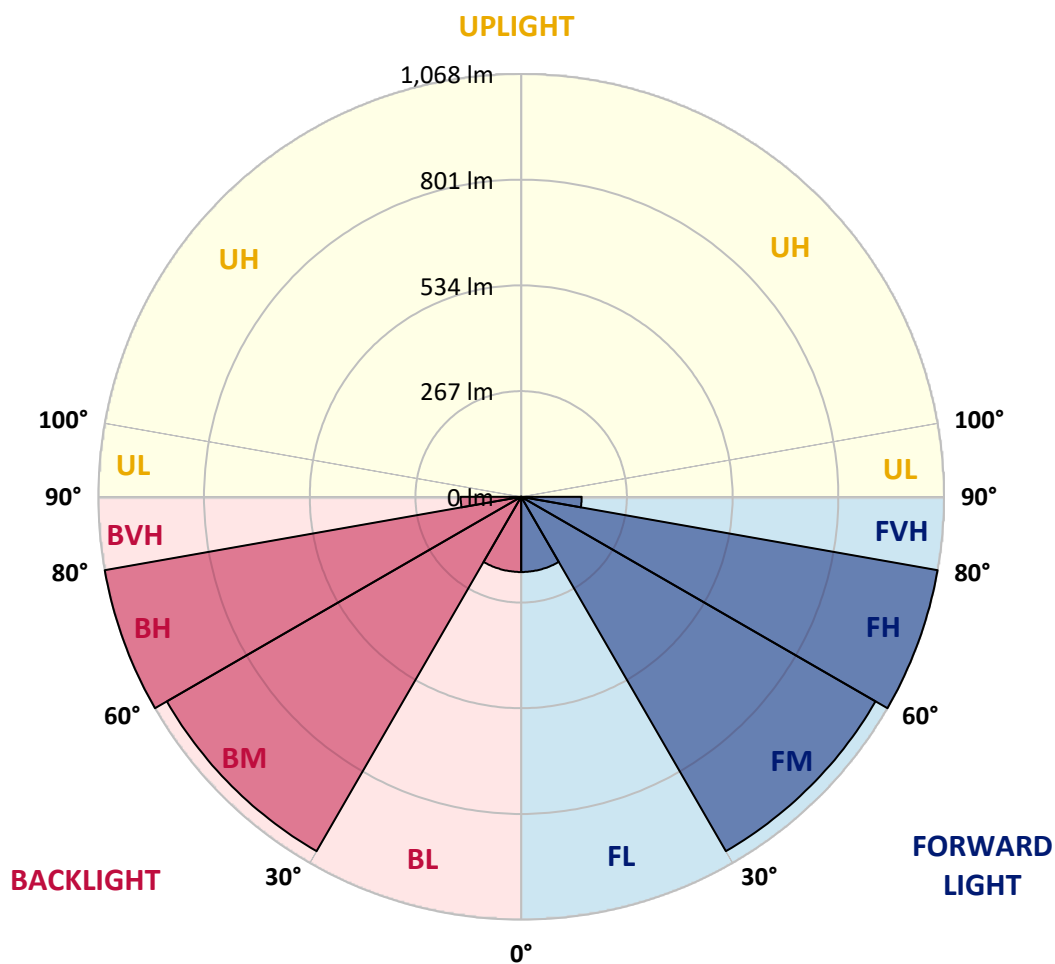
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 190.0  | 3.9       |                         |      |         |
| FM   | (30°-60°)   | 1033.7 | 21.1      |                         |      |         |
| FH   | (60°-80°)   | 1068.2 | 21.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 152.9  | 3.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 190.0  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1033.7 | 21.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1068.2 | 21.8      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 152.9  | 3.1       |                         |      | 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°    | 332.9  | 332.9  | 332.9  | 332.9  | 332.9  | 332.9  | 332.9  | 332.9  | 332.9  | 332.9  | 332.9  |
| 2.5°  | 343.4  | 343.4  | 343.4  | 343.4  | 343.4  | 343.4  | 342.3  | 343.4  | 342.3  | 342.3  | 342.3  |
| 5°    | 350.0  | 350.0  | 350.0  | 350.0  | 349.0  | 349.0  | 348.0  | 348.0  | 348.0  | 347.1  | 348.0  |
| 7.5°  | 352.8  | 352.8  | 352.8  | 352.8  | 351.9  | 351.9  | 351.9  | 351.9  | 351.9  | 351.9  | 351.9  |
| 10°   | 359.4  | 359.4  | 360.3  | 361.3  | 363.1  | 363.1  | 363.1  | 364.2  | 363.1  | 363.1  | 363.1  |
| 12.5° | 373.6  | 372.7  | 374.5  | 376.4  | 378.4  | 379.3  | 379.3  | 379.3  | 378.4  | 378.4  | 379.3  |
| 15°   | 393.5  | 391.5  | 392.5  | 393.5  | 394.4  | 395.3  | 395.3  | 394.4  | 392.5  | 392.5  | 392.5  |
| 17.5° | 418.9  | 416.2  | 415.2  | 414.3  | 414.3  | 416.2  | 418.0  | 417.1  | 418.0  | 417.1  | 418.0  |
| 20°   | 449.3  | 447.3  | 447.3  | 447.3  | 448.3  | 452.1  | 455.9  | 457.8  | 456.8  | 454.9  | 457.8  |
| 22.5° | 469.1  | 470.1  | 474.8  | 473.8  | 472.9  | 476.7  | 481.4  | 485.2  | 483.3  | 480.5  | 482.3  |
| 25°   | 490.9  | 490.9  | 497.4  | 500.3  | 497.4  | 497.4  | 499.4  | 502.2  | 500.3  | 498.5  | 500.3  |
| 27.5° | 515.5  | 515.5  | 518.3  | 521.2  | 519.3  | 519.3  | 522.1  | 526.8  | 525.8  | 524.9  | 525.8  |
| 30°   | 544.8  | 541.0  | 538.1  | 542.9  | 547.7  | 548.6  | 551.4  | 558.9  | 560.8  | 559.9  | 561.8  |
| 32.5° | 572.2  | 566.5  | 568.5  | 571.3  | 581.6  | 585.5  | 584.5  | 590.2  | 589.2  | 586.4  | 590.2  |
| 35°   | 598.7  | 605.3  | 609.1  | 614.8  | 618.6  | 623.2  | 623.2  | 633.7  | 635.6  | 632.8  | 635.6  |
| 37.5° | 649.8  | 652.6  | 663.0  | 663.9  | 668.7  | 686.6  | 688.6  | 702.8  | 710.3  | 706.5  | 707.4  |
| 40°   | 719.8  | 718.8  | 726.4  | 737.7  | 747.2  | 769.9  | 776.5  | 785.9  | 792.5  | 789.8  | 793.5  |
| 42.5° | 776.5  | 768.9  | 774.6  | 799.2  | 809.6  | 826.6  | 835.1  | 839.9  | 852.2  | 848.4  | 853.1  |
| 45°   | 817.2  | 820.0  | 827.5  | 852.2  | 858.8  | 873.0  | 892.8  | 901.4  | 917.4  | 912.7  | 915.6  |
| 47.5° | 856.8  | 870.1  | 876.7  | 888.1  | 908.9  | 927.8  | 952.4  | 960.9  | 983.6  | 981.7  | 978.9  |
| 50°   | 908.9  | 919.3  | 926.8  | 935.3  | 963.8  | 995.0  | 1015.8 | 1019.5 | 1027.1 | 1021.5 | 1030.9 |
| 52.5° | 964.7  | 963.8  | 970.3  | 994.0  | 1033.7 | 1046.0 | 1064.0 | 1081.0 | 1097.1 | 1102.8 | 1097.1 |
| 55°   | 1038.5 | 1014.9 | 1042.3 | 1076.3 | 1093.3 | 1122.7 | 1166.1 | 1189.9 | 1221.0 | 1225.8 | 1216.3 |
| 57.5° | 1068.7 | 1068.7 | 1097.1 | 1117.0 | 1148.2 | 1200.2 | 1246.6 | 1257.9 | 1273.9 | 1265.4 | 1275.0 |
| 60°   | 1065.0 | 1100.9 | 1100.9 | 1135.9 | 1187.0 | 1233.3 | 1250.3 | 1269.3 | 1291.0 | 1290.1 | 1290.1 |
| 62.5° | 1069.7 | 1104.6 | 1095.2 | 1155.8 | 1187.0 | 1224.8 | 1262.6 | 1297.6 | 1327.9 | 1327.0 | 1326.0 |
| 63°   | 1074.4 | 1104.6 | 1099.0 | 1160.4 | 1186.0 | 1226.7 | 1272.1 | 1307.1 | 1331.7 | 1329.7 | 1330.7 |
| 65°   | 1088.6 | 1080.1 | 1114.2 | 1152.9 | 1182.2 | 1242.8 | 1280.6 | 1308.0 | 1325.1 | 1324.2 | 1324.2 |
| 67.5° | 1062.1 | 1042.3 | 1090.5 | 1105.7 | 1161.5 | 1215.3 | 1244.6 | 1275.9 | 1288.1 | 1288.1 | 1286.3 |
| 70°   | 980.8  | 989.3  | 1022.4 | 1047.0 | 1103.7 | 1152.0 | 1176.6 | 1216.3 | 1231.4 | 1231.4 | 1230.4 |
| 72.5° | 898.5  | 912.7  | 935.3  | 970.3  | 1024.3 | 1062.1 | 1091.5 | 1127.4 | 1147.2 | 1146.3 | 1146.3 |
| 75°   | 793.5  | 806.7  | 833.2  | 866.4  | 913.6  | 950.6  | 974.2  | 1008.2 | 1030.9 | 1039.4 | 1030.0 |
| 77.5° | 675.3  | 679.1  | 703.7  | 737.7  | 779.3  | 804.9  | 840.8  | 873.9  | 892.8  | 891.8  | 889.1  |
| 80°   | 531.5  | 536.3  | 557.1  | 595.8  | 618.6  | 648.8  | 682.0  | 699.9  | 715.9  | 715.9  | 714.1  |
| 82.5° | 367.0  | 377.3  | 398.1  | 423.7  | 447.3  | 473.8  | 491.8  | 509.8  | 523.0  | 522.1  | 519.3  |
| 85°   | 207.1  | 211.9  | 231.7  | 247.8  | 265.8  | 282.8  | 295.1  | 306.4  | 317.8  | 317.8  | 315.9  |
| 87.5° | 62.4   | 55.8   | 67.2   | 73.7   | 83.3   | 91.7   | 97.4   | 108.7  | 116.3  | 107.8  | 107.8  |
| 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°    | 332.9  | 332.9  | 332.9  | 332.9  | 332.9  | 332.9  | 332.9  | 332.9  |
| 2.5°  | 343.4  | 343.4  | 343.4  | 343.4  | 343.4  | 343.4  | 343.4  | 343.4  |
| 5°    | 348.0  | 349.0  | 349.0  | 350.0  | 350.0  | 350.0  | 350.0  | 350.0  |
| 7.5°  | 351.9  | 351.9  | 351.9  | 351.9  | 352.8  | 352.8  | 352.8  | 352.8  |
| 10°   | 363.1  | 364.2  | 363.1  | 363.1  | 361.3  | 360.3  | 360.3  | 360.3  |
| 12.5° | 379.3  | 380.2  | 380.2  | 378.4  | 376.4  | 374.5  | 373.6  | 372.7  |
| 15°   | 394.4  | 397.2  | 395.3  | 394.4  | 392.5  | 393.5  | 393.5  | 394.4  |
| 17.5° | 418.0  | 418.9  | 416.2  | 414.3  | 413.4  | 415.2  | 417.1  | 418.0  |
| 20°   | 458.7  | 456.8  | 451.2  | 449.3  | 447.3  | 447.3  | 449.3  | 449.3  |
| 22.5° | 484.3  | 479.5  | 475.7  | 473.8  | 473.8  | 473.8  | 471.0  | 467.2  |
| 25°   | 502.2  | 499.4  | 496.5  | 498.5  | 500.3  | 497.4  | 490.9  | 489.9  |
| 27.5° | 526.8  | 521.2  | 520.2  | 519.3  | 520.2  | 518.3  | 517.3  | 513.6  |
| 30°   | 558.9  | 551.4  | 549.5  | 547.7  | 542.0  | 540.0  | 542.0  | 544.8  |
| 32.5° | 589.2  | 584.5  | 586.4  | 582.7  | 572.2  | 568.5  | 570.3  | 569.4  |
| 35°   | 632.8  | 624.2  | 624.2  | 616.6  | 613.8  | 612.9  | 605.3  | 598.7  |
| 37.5° | 701.7  | 690.4  | 687.6  | 670.6  | 663.0  | 664.9  | 654.5  | 647.0  |
| 40°   | 785.9  | 777.4  | 769.9  | 750.9  | 740.6  | 727.3  | 720.7  | 720.7  |
| 42.5° | 841.7  | 836.0  | 825.7  | 812.4  | 801.0  | 778.4  | 769.9  | 774.6  |
| 45°   | 903.2  | 895.7  | 873.9  | 860.7  | 850.2  | 834.2  | 824.7  | 815.2  |
| 47.5° | 965.7  | 955.2  | 929.7  | 912.7  | 888.1  | 883.4  | 873.0  | 859.7  |
| 50°   | 1020.6 | 1016.7 | 998.7  | 970.3  | 939.2  | 931.6  | 922.2  | 909.9  |
| 52.5° | 1087.7 | 1065.0 | 1049.9 | 1037.5 | 1002.5 | 978.0  | 964.7  | 970.3  |
| 55°   | 1197.4 | 1169.0 | 1130.2 | 1091.5 | 1083.9 | 1054.5 | 1021.5 | 1039.4 |
| 57.5° | 1260.8 | 1244.6 | 1215.3 | 1153.8 | 1123.6 | 1103.7 | 1082.0 | 1065.9 |
| 60°   | 1275.9 | 1246.6 | 1240.0 | 1193.6 | 1145.3 | 1103.7 | 1112.3 | 1074.4 |
| 62.5° | 1305.2 | 1265.4 | 1228.6 | 1191.7 | 1162.4 | 1105.7 | 1103.7 | 1083.9 |
| 63°   | 1314.6 | 1275.0 | 1236.1 | 1191.7 | 1165.2 | 1112.3 | 1101.8 | 1091.5 |
| 65°   | 1312.8 | 1278.7 | 1249.4 | 1191.7 | 1152.0 | 1131.1 | 1080.1 | 1103.7 |
| 67.5° | 1276.8 | 1248.5 | 1214.4 | 1174.6 | 1108.5 | 1092.4 | 1056.5 | 1061.1 |
| 70°   | 1219.2 | 1182.2 | 1150.1 | 1113.2 | 1060.2 | 1023.4 | 1001.6 | 983.6  |
| 72.5° | 1129.3 | 1096.1 | 1062.1 | 1028.1 | 980.8  | 936.4  | 921.2  | 901.4  |
| 75°   | 1010.1 | 978.0  | 946.7  | 914.6  | 870.1  | 830.4  | 814.3  | 800.1  |
| 77.5° | 873.9  | 846.5  | 802.1  | 771.7  | 746.3  | 703.7  | 688.6  | 673.4  |
| 80°   | 697.1  | 683.8  | 651.6  | 612.0  | 598.7  | 557.1  | 545.7  | 525.8  |
| 82.5° | 507.0  | 493.7  | 468.1  | 440.7  | 424.6  | 402.9  | 384.0  | 370.8  |
| 85°   | 309.3  | 295.1  | 281.9  | 257.2  | 247.8  | 231.7  | 216.6  | 209.1  |
| 87.5° | 111.6  | 100.2  | 89.9   | 78.5   | 72.8   | 61.5   | 59.5   | 53.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)