

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: P197904

Luminaire Tested: **TT-C3-LED-E1-WQ-SG-MS/DIM-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197904  
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-C3-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: 4949.1 lumens  
Efficiency: N/A  
Efficacy: 110.0 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): 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

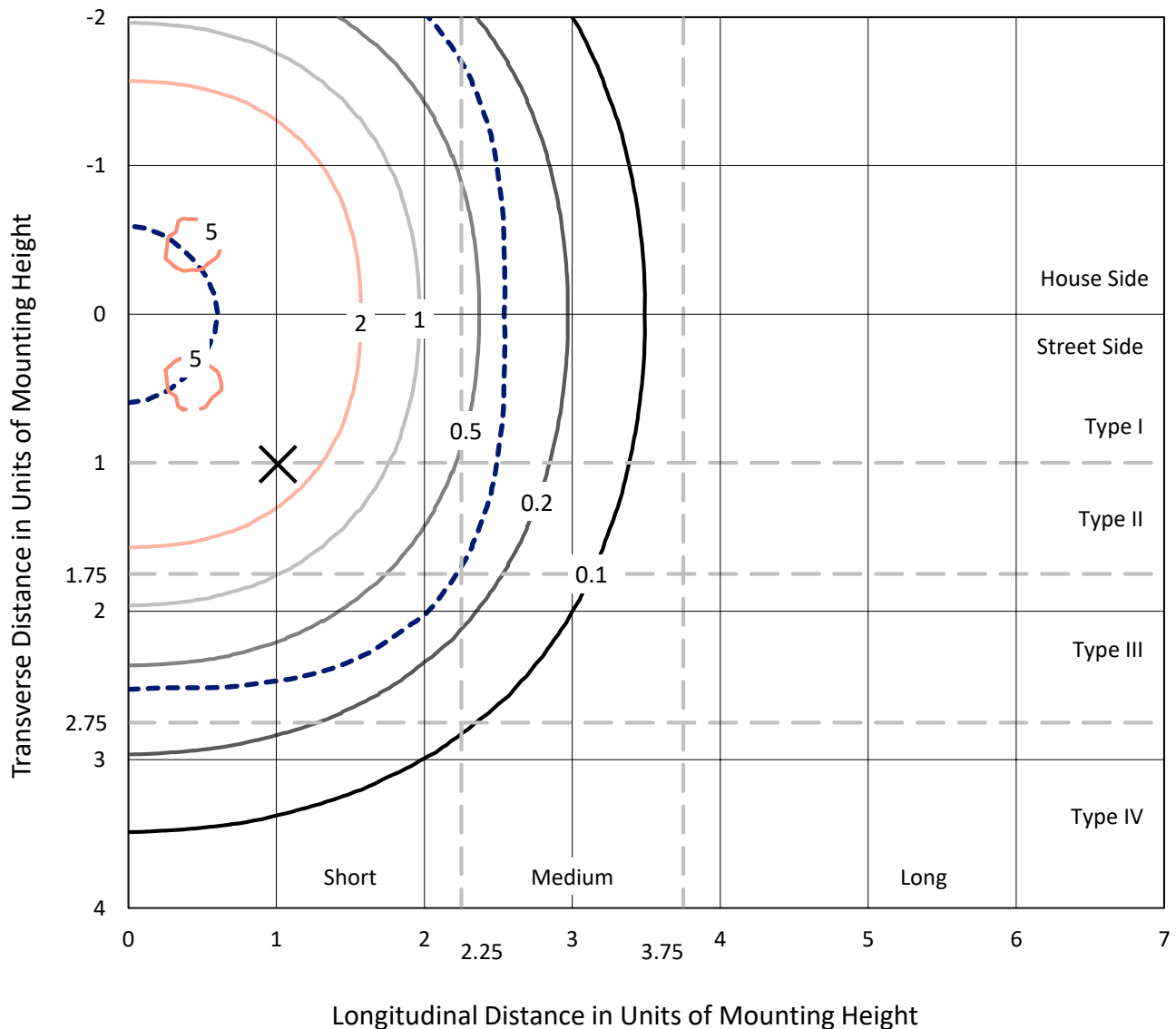


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

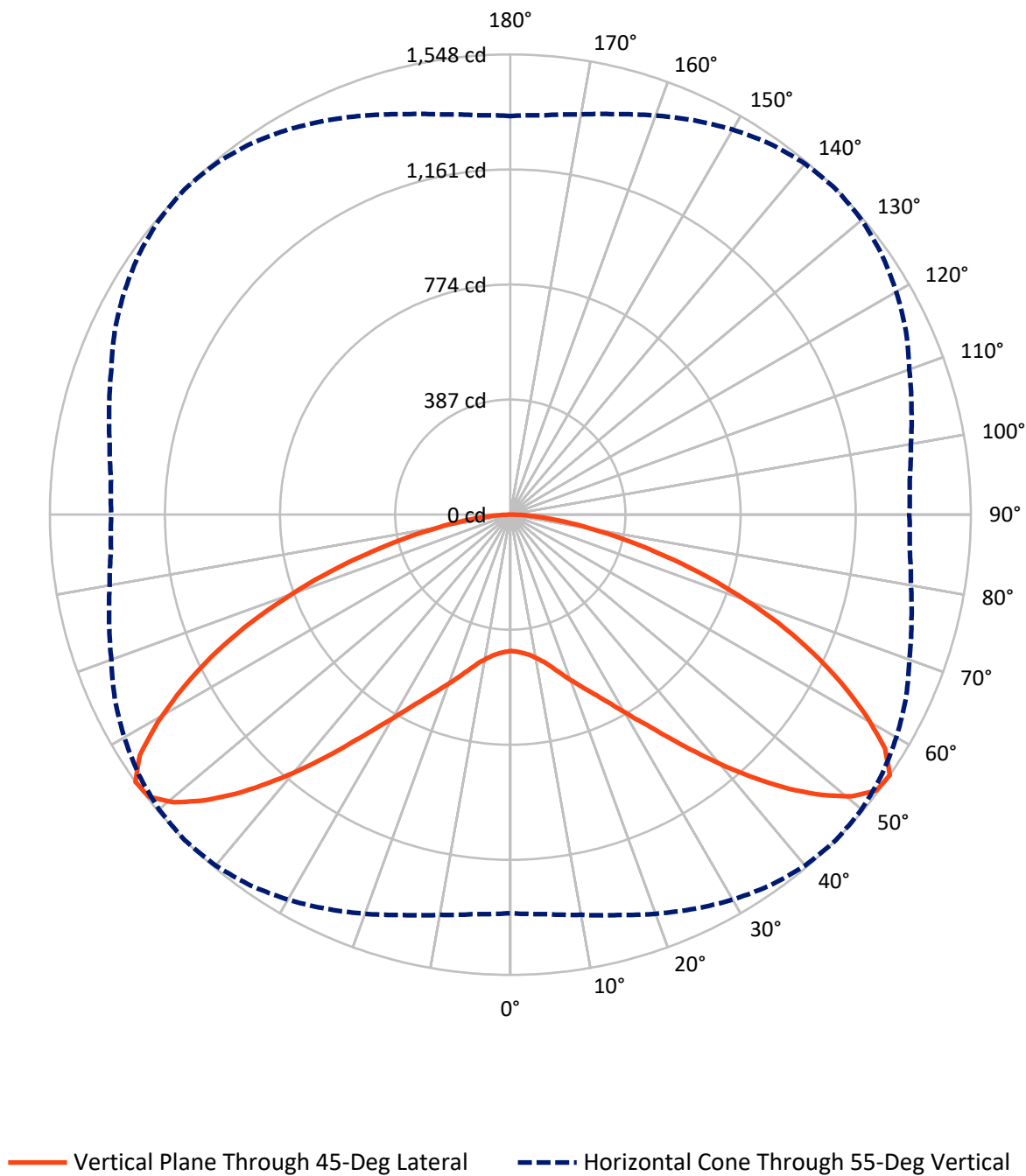


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc  
Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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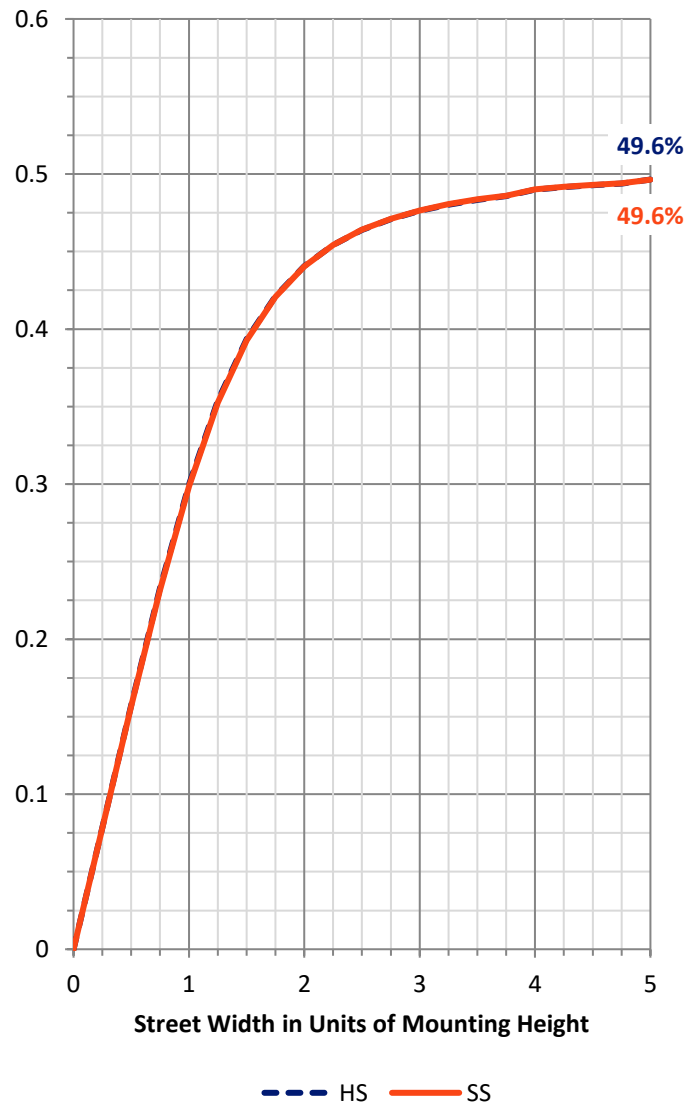
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2474.5   | 0.0    | 2474.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2474.5   | 0.0    | 2474.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4949.1   | 0.0    | 4949.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.3   | 0.9       |
| 10°-20°   | 153.6  | 3.1       |
| 20°-30°   | 312.9  | 6.3       |
| 30°-40°   | 571.3  | 11.5      |
| 40°-50°   | 970.1  | 19.6      |
| 50°-60°   | 1263.4 | 25.5      |
| 60°-70°   | 1021.8 | 20.6      |
| 70°-80°   | 502.1  | 10.1      |
| 80°-90°   | 108.7  | 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°    | 4949.1 | 100.0     |
| 0°-180°   | 4949.1 | 100.0     |

**Coefficient of Utilization**



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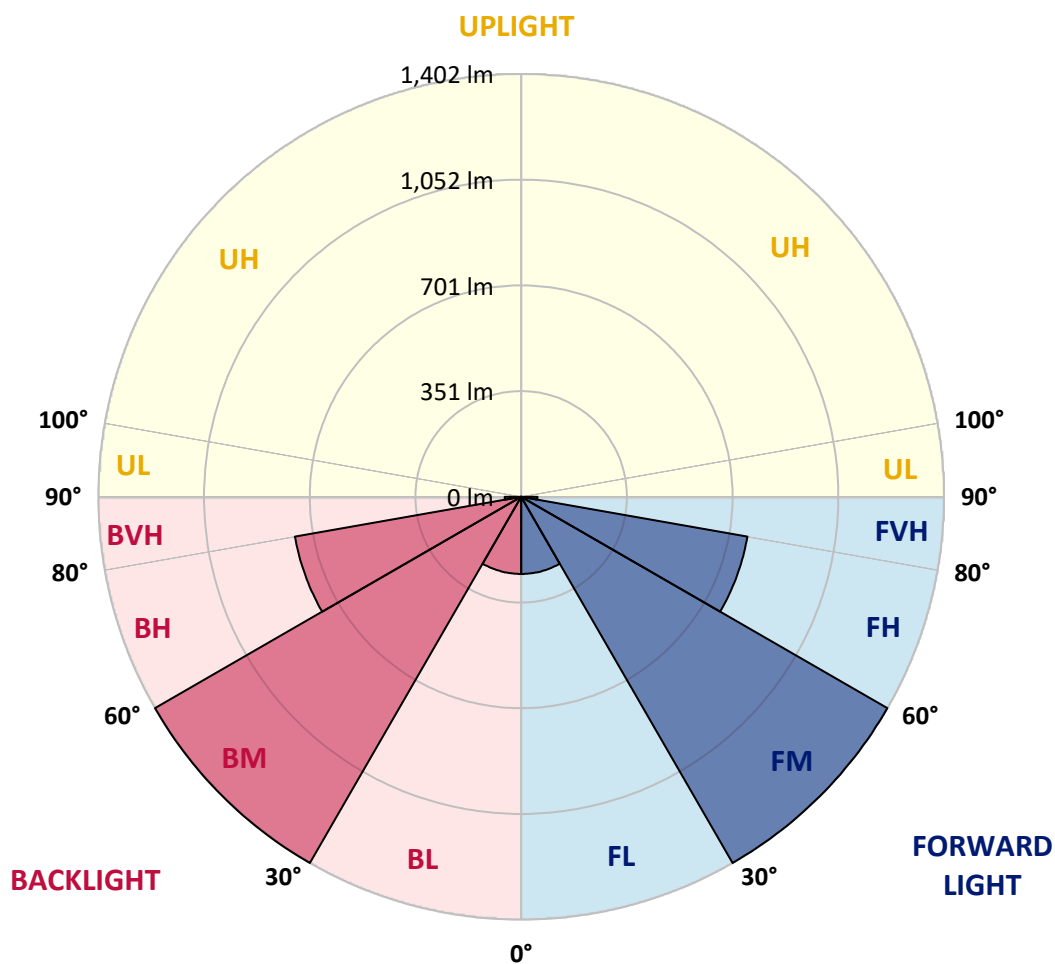
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 255.9  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 1402.4 | 28.3      |                         |      |         |
| FH   | (60°-80°)   | 761.9  | 15.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 54.3   | 1.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 255.9  | 5.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1402.4 | 28.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 761.9  | 15.4      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 54.3   | 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°    | 458.6  | 458.6  | 458.6  | 458.6  | 458.6  | 458.6  | 458.6  | 458.6  | 458.6  | 458.6  | 458.6  |
| 2.5°  | 460.6  | 460.6  | 460.6  | 460.6  | 460.6  | 460.6  | 461.6  | 461.6  | 461.6  | 461.6  | 461.6  |
| 5°    | 466.7  | 466.7  | 466.7  | 467.7  | 467.7  | 467.7  | 467.7  | 467.7  | 467.7  | 467.7  | 467.7  |
| 7.5°  | 475.8  | 474.7  | 475.8  | 475.8  | 475.8  | 476.8  | 476.8  | 475.8  | 476.8  | 476.8  | 476.8  |
| 10°   | 488.9  | 487.9  | 488.9  | 488.9  | 488.9  | 490.0  | 490.0  | 490.0  | 490.0  | 491.0  | 491.0  |
| 12.5° | 508.2  | 507.2  | 508.2  | 509.2  | 508.2  | 509.2  | 509.2  | 509.2  | 509.2  | 509.2  | 509.2  |
| 15°   | 532.5  | 531.5  | 532.5  | 533.5  | 532.5  | 534.5  | 534.5  | 533.5  | 533.5  | 534.5  | 534.5  |
| 17.5° | 561.8  | 559.9  | 560.8  | 561.8  | 561.8  | 563.9  | 563.9  | 562.9  | 563.9  | 564.8  | 563.9  |
| 20°   | 592.2  | 590.2  | 591.2  | 594.2  | 594.2  | 595.3  | 597.2  | 596.3  | 597.2  | 598.3  | 597.2  |
| 22.5° | 625.6  | 624.6  | 625.6  | 628.6  | 628.6  | 629.6  | 632.6  | 632.6  | 632.6  | 633.7  | 632.6  |
| 25°   | 662.1  | 661.0  | 662.1  | 665.1  | 665.1  | 667.1  | 671.2  | 671.2  | 672.2  | 673.2  | 672.2  |
| 27.5° | 704.6  | 703.6  | 705.5  | 708.6  | 709.7  | 712.7  | 717.8  | 718.8  | 719.7  | 720.8  | 718.8  |
| 30°   | 754.2  | 752.1  | 755.1  | 760.2  | 762.3  | 766.3  | 772.4  | 774.4  | 775.4  | 778.4  | 776.5  |
| 32.5° | 810.8  | 808.9  | 812.9  | 818.9  | 822.0  | 828.0  | 836.2  | 838.2  | 841.2  | 843.3  | 840.3  |
| 35°   | 877.6  | 876.7  | 880.7  | 889.9  | 894.9  | 902.0  | 913.1  | 916.2  | 918.2  | 922.3  | 918.2  |
| 37.5° | 951.6  | 950.5  | 957.7  | 967.8  | 976.9  | 988.0  | 1000.1 | 1005.2 | 1008.3 | 1013.4 | 1008.3 |
| 40°   | 1033.6 | 1032.5 | 1041.6 | 1053.9 | 1064.9 | 1079.1 | 1094.3 | 1101.4 | 1107.5 | 1112.6 | 1106.5 |
| 42.5° | 1117.6 | 1117.6 | 1128.7 | 1141.9 | 1158.1 | 1175.3 | 1192.5 | 1200.6 | 1210.7 | 1213.7 | 1206.7 |
| 45°   | 1198.6 | 1199.5 | 1210.7 | 1226.9 | 1250.2 | 1272.4 | 1291.7 | 1301.8 | 1312.9 | 1316.0 | 1306.9 |
| 47.5° | 1275.5 | 1276.6 | 1286.6 | 1308.0 | 1334.3 | 1359.5 | 1382.8 | 1397.0 | 1408.1 | 1409.1 | 1402.1 |
| 50°   | 1338.3 | 1342.3 | 1355.5 | 1374.7 | 1402.1 | 1428.4 | 1456.7 | 1475.0 | 1486.1 | 1489.2 | 1482.0 |
| 52.5° | 1362.6 | 1369.7 | 1384.9 | 1409.1 | 1440.5 | 1467.8 | 1499.2 | 1522.5 | 1535.6 | 1540.7 | 1534.7 |
| 55°   | 1340.3 | 1348.4 | 1366.7 | 1394.0 | 1428.4 | 1462.8 | 1495.2 | 1522.5 | 1540.7 | 1547.9 | 1541.8 |
| 57.5° | 1290.7 | 1291.7 | 1309.9 | 1337.3 | 1368.6 | 1404.0 | 1435.4 | 1460.8 | 1478.0 | 1485.1 | 1484.1 |
| 60°   | 1204.6 | 1204.6 | 1221.9 | 1248.2 | 1272.4 | 1308.9 | 1335.3 | 1354.4 | 1366.7 | 1374.7 | 1372.7 |
| 62.5° | 1089.3 | 1089.3 | 1104.4 | 1131.7 | 1156.1 | 1187.4 | 1212.8 | 1233.0 | 1241.1 | 1250.2 | 1252.3 |
| 65°   | 960.7  | 960.7  | 974.9  | 1002.2 | 1024.5 | 1052.8 | 1077.1 | 1096.3 | 1104.4 | 1115.6 | 1113.5 |
| 67.5° | 824.0  | 823.1  | 836.2  | 859.4  | 880.7  | 907.0  | 930.3  | 948.6  | 957.7  | 970.8  | 961.7  |
| 70°   | 683.3  | 683.3  | 694.5  | 712.7  | 727.8  | 754.2  | 776.5  | 794.7  | 801.7  | 812.9  | 807.8  |
| 72.5° | 549.7  | 548.7  | 557.8  | 572.0  | 584.1  | 607.4  | 620.5  | 640.8  | 646.8  | 662.1  | 654.0  |
| 75°   | 429.2  | 427.2  | 434.3  | 444.4  | 452.5  | 467.7  | 477.9  | 494.0  | 499.1  | 509.2  | 505.2  |
| 77.5° | 323.0  | 321.9  | 324.9  | 332.1  | 338.1  | 350.3  | 354.3  | 362.4  | 366.4  | 376.6  | 368.5  |
| 80°   | 231.8  | 228.8  | 231.8  | 235.9  | 237.9  | 247.1  | 248.0  | 251.1  | 253.1  | 260.2  | 252.0  |
| 82.5° | 155.9  | 151.9  | 153.9  | 156.9  | 156.9  | 161.9  | 163.0  | 161.9  | 166.0  | 168.1  | 164.0  |
| 85°   | 89.0   | 86.0   | 87.1   | 89.0   | 88.1   | 91.1   | 91.1   | 90.1   | 93.1   | 93.1   | 91.1   |
| 87.5° | 29.4   | 27.3   | 28.4   | 29.4   | 29.4   | 30.3   | 31.4   | 30.3   | 32.4   | 32.4   | 30.3   |
| 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°    | 458.6  | 458.6  | 458.6  | 458.6  | 458.6  | 458.6  | 458.6  | 458.6  |
| 2.5°  | 461.6  | 461.6  | 461.6  | 461.6  | 461.6  | 461.6  | 461.6  | 461.6  |
| 5°    | 467.7  | 467.7  | 467.7  | 467.7  | 467.7  | 466.7  | 466.7  | 466.7  |
| 7.5°  | 476.8  | 476.8  | 476.8  | 476.8  | 476.8  | 475.8  | 475.8  | 475.8  |
| 10°   | 491.0  | 490.0  | 490.0  | 490.0  | 490.0  | 488.9  | 490.0  | 488.9  |
| 12.5° | 509.2  | 510.2  | 510.2  | 509.2  | 510.2  | 508.2  | 508.2  | 508.2  |
| 15°   | 534.5  | 533.5  | 533.5  | 533.5  | 533.5  | 532.5  | 532.5  | 532.5  |
| 17.5° | 562.9  | 562.9  | 561.8  | 561.8  | 560.8  | 559.9  | 559.9  | 559.9  |
| 20°   | 596.3  | 595.3  | 594.2  | 593.2  | 592.2  | 590.2  | 589.2  | 589.2  |
| 22.5° | 630.7  | 629.6  | 628.6  | 627.7  | 626.6  | 624.6  | 622.6  | 622.6  |
| 25°   | 669.1  | 667.1  | 666.1  | 664.1  | 662.1  | 660.0  | 659.1  | 658.0  |
| 27.5° | 715.7  | 713.7  | 710.6  | 707.6  | 703.6  | 702.5  | 700.6  | 700.6  |
| 30°   | 771.4  | 768.4  | 764.3  | 759.3  | 755.1  | 751.1  | 749.1  | 748.1  |
| 32.5° | 836.2  | 832.2  | 825.0  | 818.9  | 811.9  | 807.8  | 804.8  | 802.8  |
| 35°   | 912.1  | 906.0  | 897.9  | 888.8  | 879.7  | 872.7  | 867.6  | 867.6  |
| 37.5° | 1001.2 | 992.0  | 979.9  | 968.8  | 955.6  | 947.5  | 941.4  | 937.4  |
| 40°   | 1098.4 | 1085.2 | 1070.0 | 1055.8 | 1040.7 | 1029.5 | 1020.4 | 1021.5 |
| 42.5° | 1194.6 | 1183.4 | 1165.2 | 1148.0 | 1128.7 | 1113.5 | 1102.4 | 1101.4 |
| 45°   | 1295.7 | 1281.6 | 1259.3 | 1237.0 | 1214.8 | 1196.5 | 1183.4 | 1181.3 |
| 47.5° | 1389.9 | 1374.7 | 1348.4 | 1321.1 | 1296.8 | 1276.6 | 1262.4 | 1260.3 |
| 50°   | 1466.9 | 1448.7 | 1421.3 | 1391.9 | 1365.6 | 1343.4 | 1328.1 | 1324.1 |
| 52.5° | 1516.5 | 1496.2 | 1466.9 | 1431.4 | 1403.1 | 1377.7 | 1359.5 | 1354.4 |
| 55°   | 1524.6 | 1498.3 | 1466.9 | 1427.3 | 1396.0 | 1367.6 | 1347.4 | 1341.3 |
| 57.5° | 1468.9 | 1440.5 | 1412.2 | 1377.7 | 1346.4 | 1316.0 | 1299.8 | 1291.7 |
| 60°   | 1360.6 | 1338.3 | 1315.0 | 1283.6 | 1258.4 | 1230.0 | 1216.8 | 1212.8 |
| 62.5° | 1236.0 | 1216.8 | 1195.5 | 1163.2 | 1141.9 | 1116.6 | 1104.4 | 1099.4 |
| 65°   | 1102.4 | 1080.2 | 1059.9 | 1033.6 | 1010.3 | 989.0  | 971.9  | 969.8  |
| 67.5° | 954.6  | 931.4  | 914.1  | 890.9  | 867.6  | 847.3  | 836.2  | 830.1  |
| 70°   | 798.7  | 779.5  | 762.3  | 736.9  | 721.8  | 702.5  | 694.5  | 688.4  |
| 72.5° | 643.8  | 632.6  | 611.4  | 595.3  | 578.1  | 562.9  | 557.8  | 551.7  |
| 75°   | 498.0  | 484.9  | 468.7  | 458.6  | 445.4  | 437.4  | 433.2  | 429.2  |
| 77.5° | 365.4  | 354.3  | 345.2  | 341.2  | 335.1  | 327.0  | 324.0  | 320.9  |
| 80°   | 253.1  | 248.0  | 242.0  | 240.9  | 236.9  | 230.8  | 229.8  | 228.8  |
| 82.5° | 164.0  | 161.0  | 158.9  | 158.9  | 156.9  | 152.8  | 151.9  | 151.9  |
| 85°   | 91.1   | 90.1   | 91.1   | 90.1   | 88.1   | 86.0   | 86.0   | 86.0   |
| 87.5° | 30.3   | 30.3   | 31.4   | 32.4   | 29.4   | 29.4   | 28.4   | 28.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)