

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: P197543

Luminaire Tested: **TT-C3-LED-E1-5CQ-PM-MS/DIM-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)  
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-E1-5CQ-PM-MS/DIM-7050  
Description: TOPTIER LED AREA/SITE LUMINAIRE  
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR  
Light Source: (168) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5686.7 lumens  
Efficiency: N/A  
Efficacy: 126.4 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

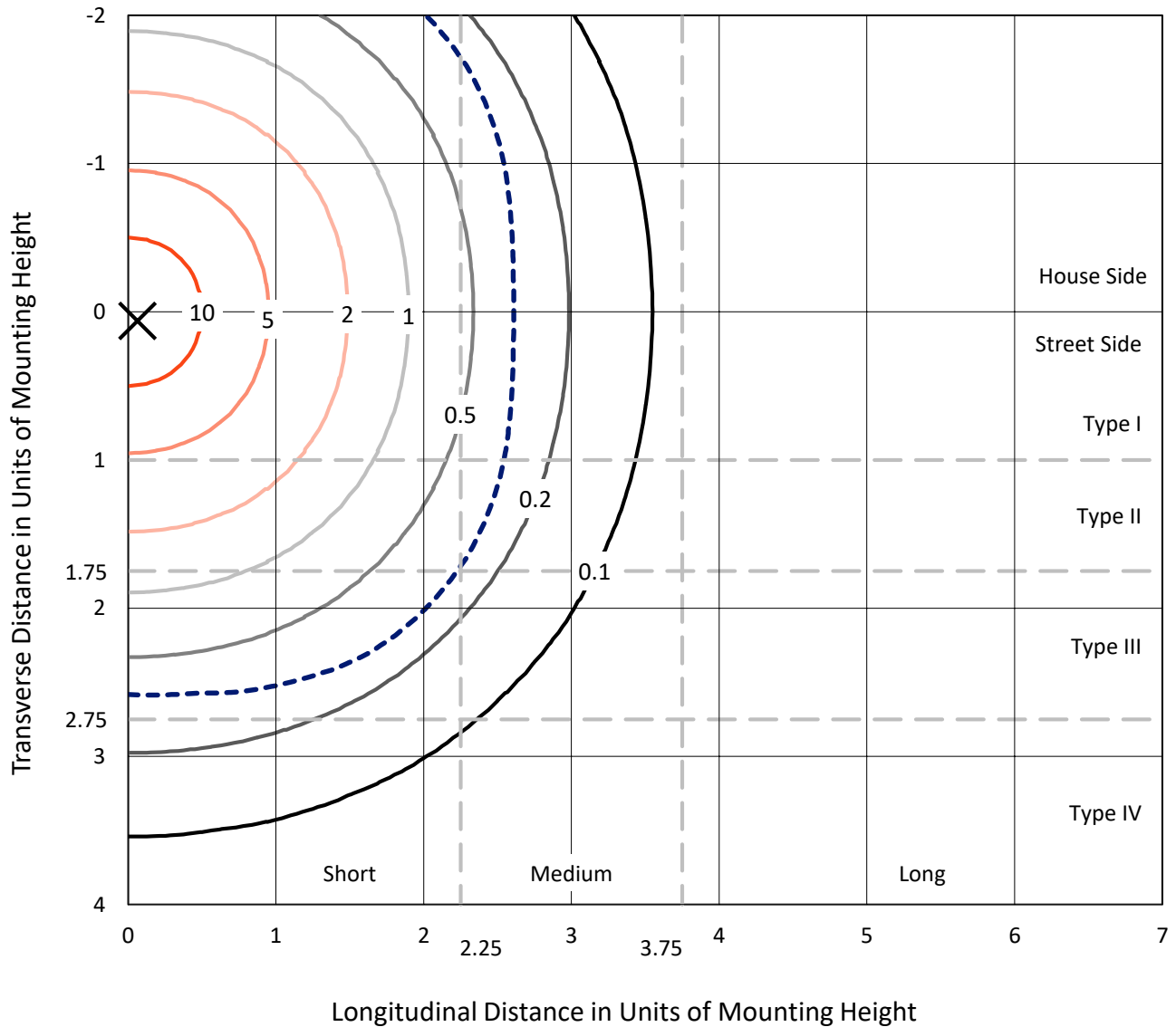


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### Iso-Footcandle Lines of Horizontal Illumination

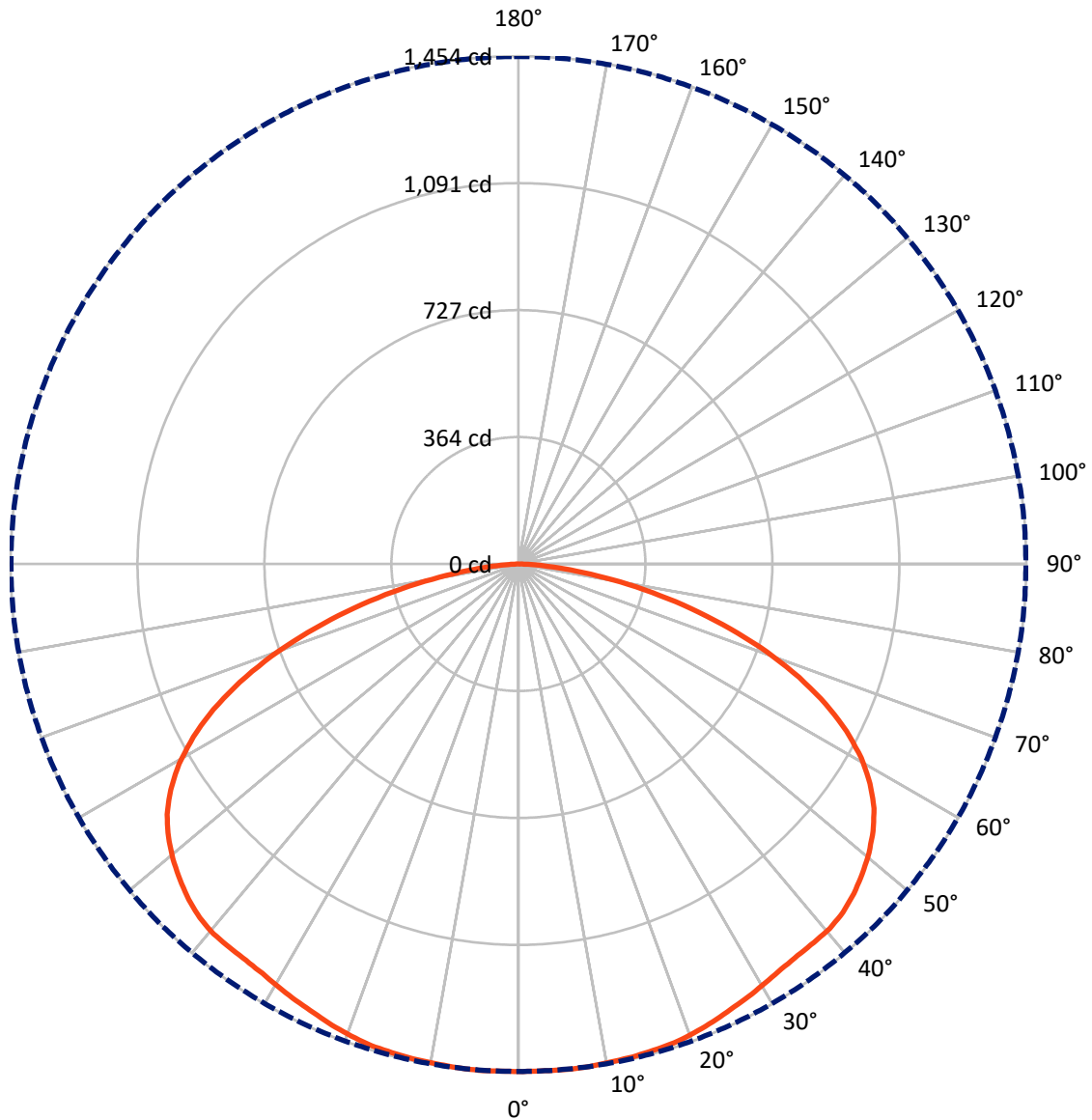
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 5-Deg Vertical

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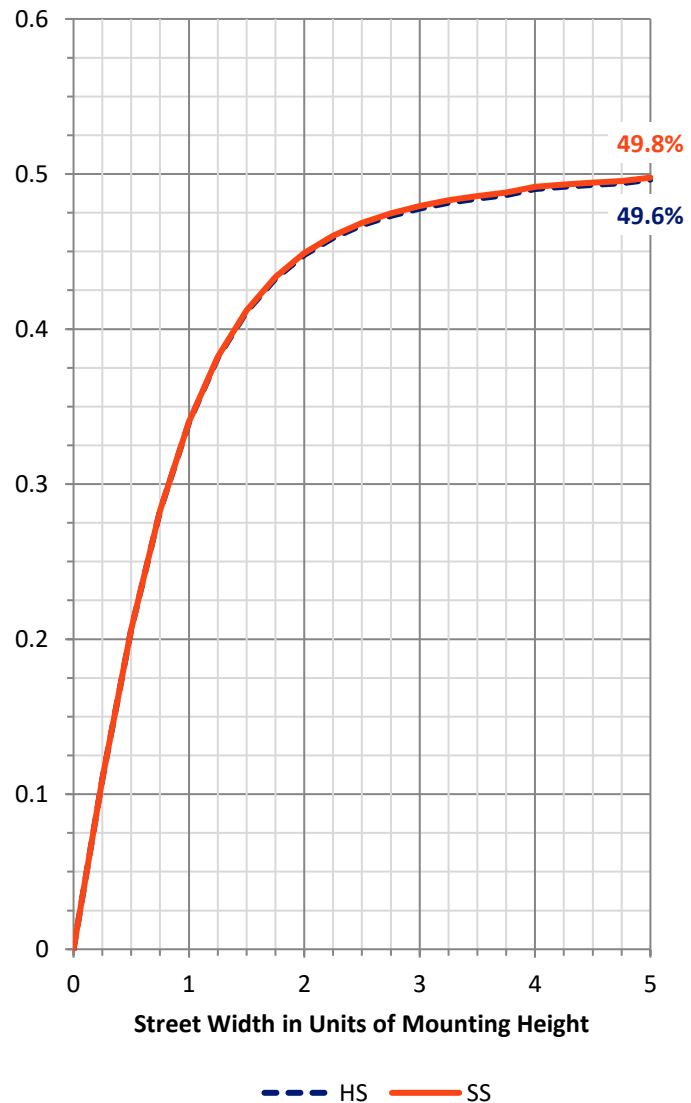
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2843.3   | 0.0    | 2843.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2843.3   | 0.0    | 2843.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5686.7   | 0.0    | 5686.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 138.6  | 2.4       |
| 10°-20°   | 408.7  | 7.2       |
| 20°-30°   | 652.3  | 11.5      |
| 30°-40°   | 859.1  | 15.1      |
| 40°-50°   | 1022.0 | 18.0      |
| 50°-60°   | 1069.6 | 18.8      |
| 60°-70°   | 909.6  | 16.0      |
| 70°-80°   | 516.9  | 9.1       |
| 80°-90°   | 109.9  | 1.9       |
| 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°    | 5686.7 | 100.0     |
| 0°-180°   | 5686.7 | 100.0     |



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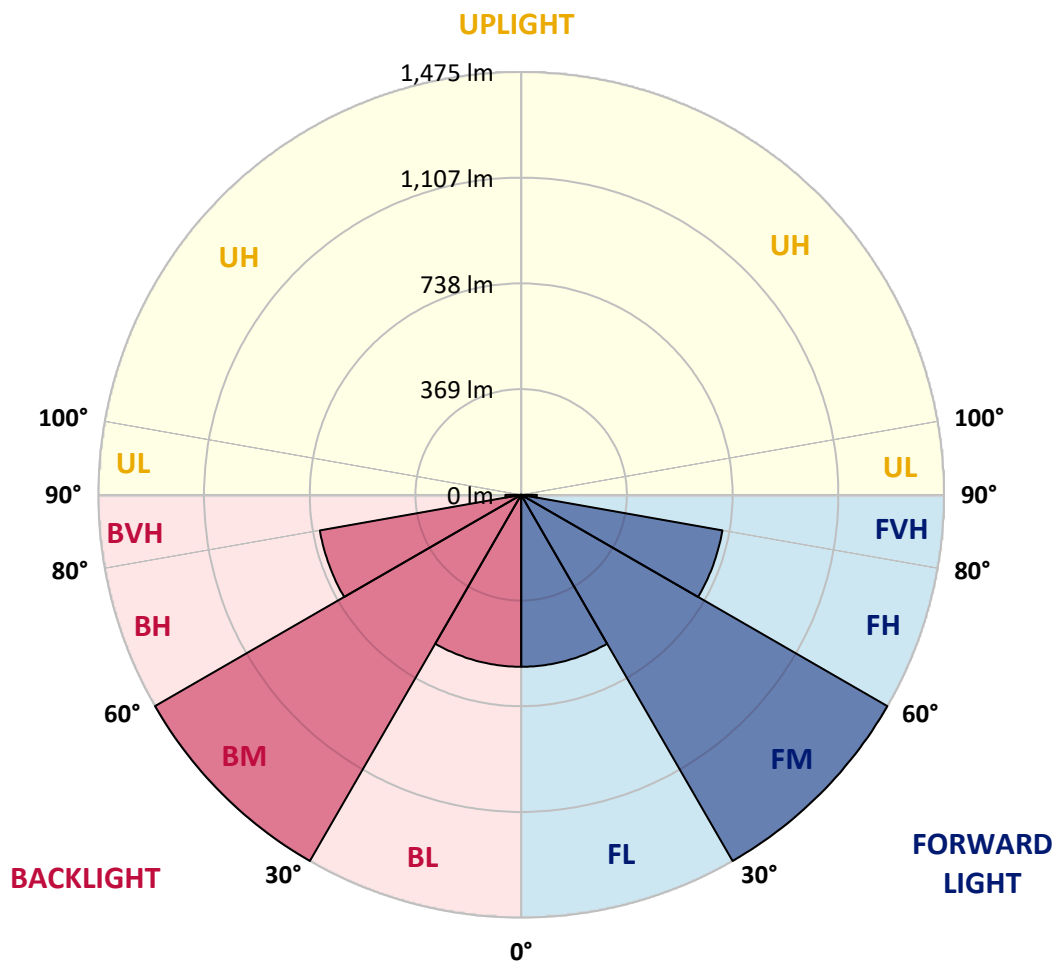
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 599.8  | 10.5      |                         |      |         |
| FM (30°-60°)   | 1475.4 | 25.9      |                         |      |         |
| FH (60°-80°)   | 713.2  | 12.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 55.0   | 1.0       |                         |      | G1/100  |
| BL (0°-30°)    | 599.8  | 10.5      | B2/1000                 |      |         |
| BM (30°-60°)   | 1475.4 | 25.9      | B2/2500                 |      |         |
| BH (60°-80°)   | 713.2  | 12.5      | B2/1000                 |      | G1/1800 |
| BVH (80°-90°)  | 55.0   | 1.0       |                         |      | 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°    | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 |
| 2.5°  | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 |
| 5°    | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1454.0 | 1452.9 |
| 7.5°  | 1451.8 | 1451.8 | 1451.8 | 1451.8 | 1452.9 | 1451.8 | 1451.8 | 1452.9 | 1452.9 | 1452.9 | 1452.9 |
| 10°   | 1449.6 | 1448.4 | 1448.4 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1450.6 | 1449.6 | 1449.6 |
| 12.5° | 1446.2 | 1445.0 | 1446.2 | 1446.2 | 1446.2 | 1447.3 | 1447.3 | 1447.3 | 1448.4 | 1448.4 | 1447.3 |
| 15°   | 1442.8 | 1442.8 | 1442.8 | 1442.8 | 1442.8 | 1444.0 | 1444.0 | 1445.0 | 1445.0 | 1445.0 | 1445.0 |
| 17.5° | 1438.3 | 1438.3 | 1438.3 | 1439.4 | 1439.4 | 1440.6 | 1440.6 | 1440.6 | 1441.7 | 1441.7 | 1441.7 |
| 20°   | 1430.5 | 1429.4 | 1430.5 | 1430.5 | 1431.6 | 1432.7 | 1432.7 | 1433.8 | 1433.8 | 1433.8 | 1433.8 |
| 22.5° | 1419.3 | 1419.3 | 1420.4 | 1420.4 | 1421.5 | 1422.6 | 1422.6 | 1423.7 | 1423.7 | 1423.7 | 1423.7 |
| 25°   | 1408.1 | 1409.2 | 1409.2 | 1410.3 | 1410.3 | 1411.4 | 1412.5 | 1412.5 | 1412.5 | 1412.5 | 1412.5 |
| 27.5° | 1396.9 | 1397.9 | 1397.9 | 1397.9 | 1399.1 | 1400.3 | 1401.3 | 1402.5 | 1403.5 | 1402.5 | 1402.5 |
| 30°   | 1384.5 | 1384.5 | 1385.7 | 1386.7 | 1387.9 | 1389.0 | 1391.3 | 1392.3 | 1393.5 | 1392.3 | 1392.3 |
| 32.5° | 1371.1 | 1372.2 | 1373.3 | 1374.5 | 1376.7 | 1378.9 | 1381.1 | 1382.3 | 1383.4 | 1382.3 | 1382.3 |
| 35°   | 1361.0 | 1361.0 | 1363.2 | 1365.5 | 1367.7 | 1371.1 | 1373.3 | 1375.5 | 1377.8 | 1376.7 | 1375.5 |
| 37.5° | 1350.9 | 1350.9 | 1353.1 | 1356.5 | 1361.0 | 1365.5 | 1369.9 | 1373.3 | 1374.5 | 1374.5 | 1373.3 |
| 40°   | 1338.6 | 1339.7 | 1341.9 | 1347.5 | 1354.2 | 1359.9 | 1365.5 | 1369.9 | 1372.2 | 1372.2 | 1369.9 |
| 42.5° | 1325.1 | 1326.2 | 1329.6 | 1335.2 | 1343.0 | 1349.8 | 1356.5 | 1359.9 | 1363.2 | 1363.2 | 1361.0 |
| 45°   | 1306.0 | 1307.2 | 1311.6 | 1317.2 | 1325.1 | 1331.8 | 1339.7 | 1343.0 | 1347.5 | 1346.4 | 1345.3 |
| 47.5° | 1281.4 | 1282.5 | 1287.0 | 1292.6 | 1300.4 | 1308.3 | 1316.2 | 1321.8 | 1325.1 | 1325.1 | 1324.0 |
| 50°   | 1251.1 | 1252.3 | 1256.7 | 1262.3 | 1272.4 | 1281.4 | 1289.2 | 1294.8 | 1300.4 | 1300.4 | 1299.3 |
| 52.5° | 1213.0 | 1215.2 | 1218.6 | 1226.5 | 1237.7 | 1247.7 | 1257.9 | 1266.8 | 1270.2 | 1271.3 | 1270.2 |
| 55°   | 1165.9 | 1168.2 | 1172.6 | 1181.6 | 1194.0 | 1206.3 | 1217.5 | 1227.5 | 1232.1 | 1235.4 | 1233.1 |
| 57.5° | 1110.9 | 1113.3 | 1118.8 | 1128.9 | 1142.4 | 1154.7 | 1169.2 | 1180.4 | 1183.8 | 1187.2 | 1186.1 |
| 60°   | 1046.0 | 1049.3 | 1054.9 | 1066.1 | 1079.6 | 1093.1 | 1106.5 | 1119.9 | 1123.3 | 1127.8 | 1125.5 |
| 62.5° | 969.7  | 973.1  | 978.7  | 991.0  | 1005.6 | 1018.0 | 1033.6 | 1046.0 | 1049.3 | 1053.8 | 1052.7 |
| 65°   | 882.2  | 885.6  | 891.2  | 904.7  | 918.2  | 931.6  | 946.1  | 959.7  | 963.0  | 967.5  | 966.3  |
| 67.5° | 782.5  | 785.9  | 791.5  | 807.1  | 820.7  | 834.1  | 846.4  | 859.8  | 862.1  | 866.6  | 865.4  |
| 70°   | 677.1  | 681.6  | 686.1  | 700.7  | 713.0  | 724.2  | 737.6  | 748.8  | 753.4  | 755.6  | 753.4  |
| 72.5° | 571.8  | 575.1  | 579.6  | 589.6  | 598.6  | 608.8  | 622.2  | 630.0  | 633.4  | 634.5  | 634.5  |
| 75°   | 463.0  | 466.4  | 466.4  | 477.6  | 484.3  | 489.9  | 501.1  | 506.7  | 508.9  | 511.3  | 511.3  |
| 77.5° | 359.9  | 357.7  | 359.9  | 364.3  | 368.9  | 373.3  | 380.1  | 383.4  | 385.7  | 390.1  | 387.9  |
| 80°   | 252.2  | 253.4  | 254.5  | 257.8  | 260.1  | 261.2  | 265.7  | 266.8  | 267.9  | 272.4  | 270.2  |
| 82.5° | 162.6  | 160.3  | 162.6  | 161.4  | 163.7  | 160.3  | 162.6  | 165.9  | 163.7  | 165.9  | 167.0  |
| 85°   | 85.2   | 81.9   | 81.9   | 82.9   | 84.1   | 81.9   | 82.9   | 81.9   | 81.9   | 84.1   | 82.9   |
| 87.5° | 26.9   | 25.8   | 26.9   | 25.8   | 26.9   | 25.8   | 26.9   | 28.0   | 26.9   | 26.9   | 28.0   |
| 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°    | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 |
| 2.5°  | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 |
| 5°    | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 |
| 7.5°  | 1451.8 | 1451.8 | 1451.8 | 1451.8 | 1451.8 | 1451.8 | 1450.6 | 1451.8 |
| 10°   | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1448.4 | 1448.4 | 1448.4 | 1448.4 |
| 12.5° | 1447.3 | 1447.3 | 1446.2 | 1446.2 | 1446.2 | 1446.2 | 1445.0 | 1445.0 |
| 15°   | 1445.0 | 1444.0 | 1444.0 | 1442.8 | 1442.8 | 1442.8 | 1441.7 | 1442.8 |
| 17.5° | 1441.7 | 1440.6 | 1440.6 | 1439.4 | 1439.4 | 1438.3 | 1438.3 | 1438.3 |
| 20°   | 1433.8 | 1432.7 | 1432.7 | 1431.6 | 1431.6 | 1430.5 | 1429.4 | 1429.4 |
| 22.5° | 1422.6 | 1422.6 | 1422.6 | 1421.5 | 1420.4 | 1420.4 | 1419.3 | 1419.3 |
| 25°   | 1412.5 | 1411.4 | 1411.4 | 1410.3 | 1409.2 | 1409.2 | 1408.1 | 1408.1 |
| 27.5° | 1402.5 | 1401.3 | 1400.3 | 1397.9 | 1397.9 | 1396.9 | 1395.7 | 1394.7 |
| 30°   | 1391.3 | 1389.0 | 1386.7 | 1385.7 | 1384.5 | 1382.3 | 1381.1 | 1380.1 |
| 32.5° | 1380.1 | 1377.8 | 1375.5 | 1373.3 | 1369.9 | 1368.8 | 1366.6 | 1366.6 |
| 35°   | 1373.3 | 1369.9 | 1366.6 | 1362.1 | 1358.7 | 1355.4 | 1353.1 | 1352.0 |
| 37.5° | 1369.9 | 1365.5 | 1359.9 | 1354.2 | 1348.6 | 1344.2 | 1340.8 | 1340.8 |
| 40°   | 1365.5 | 1359.9 | 1353.1 | 1345.3 | 1338.6 | 1333.0 | 1329.6 | 1328.4 |
| 42.5° | 1356.5 | 1350.9 | 1341.9 | 1335.2 | 1326.2 | 1320.6 | 1316.2 | 1315.0 |
| 45°   | 1340.8 | 1335.2 | 1327.4 | 1318.4 | 1309.4 | 1302.7 | 1298.2 | 1297.1 |
| 47.5° | 1320.6 | 1313.8 | 1305.0 | 1296.0 | 1287.0 | 1279.1 | 1274.7 | 1273.5 |
| 50°   | 1294.8 | 1288.1 | 1279.1 | 1270.2 | 1260.1 | 1252.3 | 1246.7 | 1246.7 |
| 52.5° | 1265.7 | 1257.9 | 1247.7 | 1237.7 | 1226.5 | 1218.6 | 1213.0 | 1211.9 |
| 55°   | 1227.5 | 1218.6 | 1208.5 | 1197.3 | 1185.0 | 1176.0 | 1169.2 | 1168.2 |
| 57.5° | 1180.4 | 1170.4 | 1159.2 | 1146.8 | 1134.5 | 1124.4 | 1116.6 | 1115.5 |
| 60°   | 1121.1 | 1109.9 | 1098.7 | 1086.3 | 1072.9 | 1061.6 | 1053.8 | 1051.6 |
| 62.5° | 1048.2 | 1035.8 | 1023.6 | 1012.4 | 997.8  | 986.5  | 978.7  | 976.5  |
| 65°   | 961.9  | 951.7  | 939.5  | 926.0  | 910.3  | 899.1  | 891.2  | 890.2  |
| 67.5° | 861.0  | 850.9  | 838.6  | 826.2  | 810.5  | 800.5  | 792.6  | 790.3  |
| 70°   | 750.0  | 741.0  | 731.0  | 718.6  | 705.2  | 695.1  | 687.2  | 686.1  |
| 72.5° | 632.3  | 624.4  | 615.5  | 606.5  | 593.0  | 585.2  | 578.4  | 577.4  |
| 75°   | 511.3  | 503.3  | 496.7  | 489.9  | 479.8  | 474.2  | 467.5  | 467.5  |
| 77.5° | 387.9  | 385.7  | 381.1  | 373.3  | 367.7  | 363.3  | 359.9  | 357.7  |
| 80°   | 271.3  | 269.0  | 266.8  | 262.3  | 259.0  | 257.8  | 255.6  | 253.4  |
| 82.5° | 165.9  | 164.8  | 165.9  | 163.7  | 162.6  | 162.6  | 161.4  | 159.2  |
| 85°   | 84.1   | 85.2   | 84.1   | 82.9   | 82.9   | 82.9   | 82.9   | 81.9   |
| 87.5° | 26.9   | 28.0   | 26.9   | 25.8   | 25.8   | 25.8   | 25.8   | 24.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)