

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: P197882

Luminaire Tested: **TT-C4-LED-E1-5WQ-PM-SG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-5WQ-PM-SG-LWR-LW
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5999.9 lumens
Efficiency: N/A
Efficacy: 103.4 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): 58
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

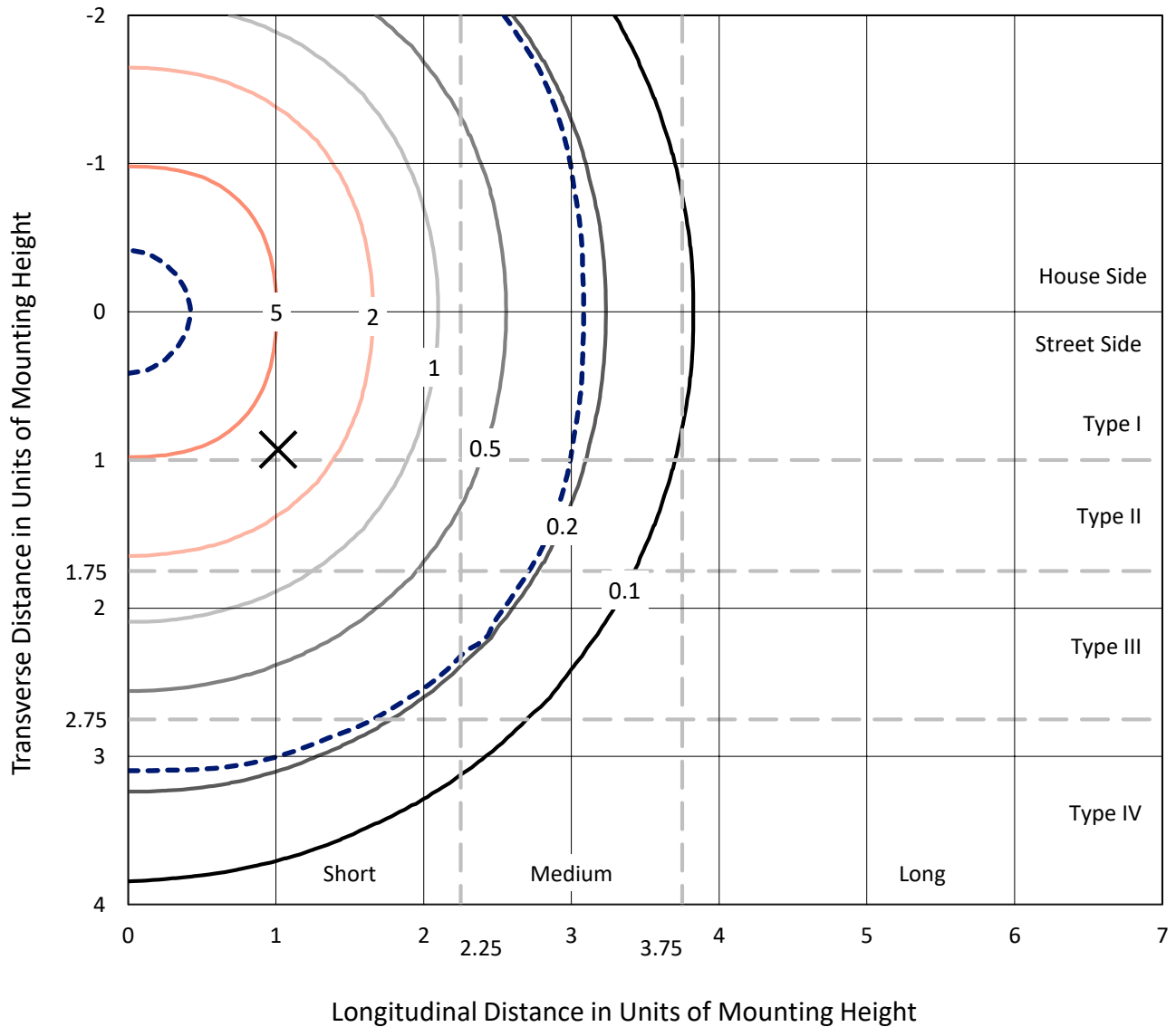


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

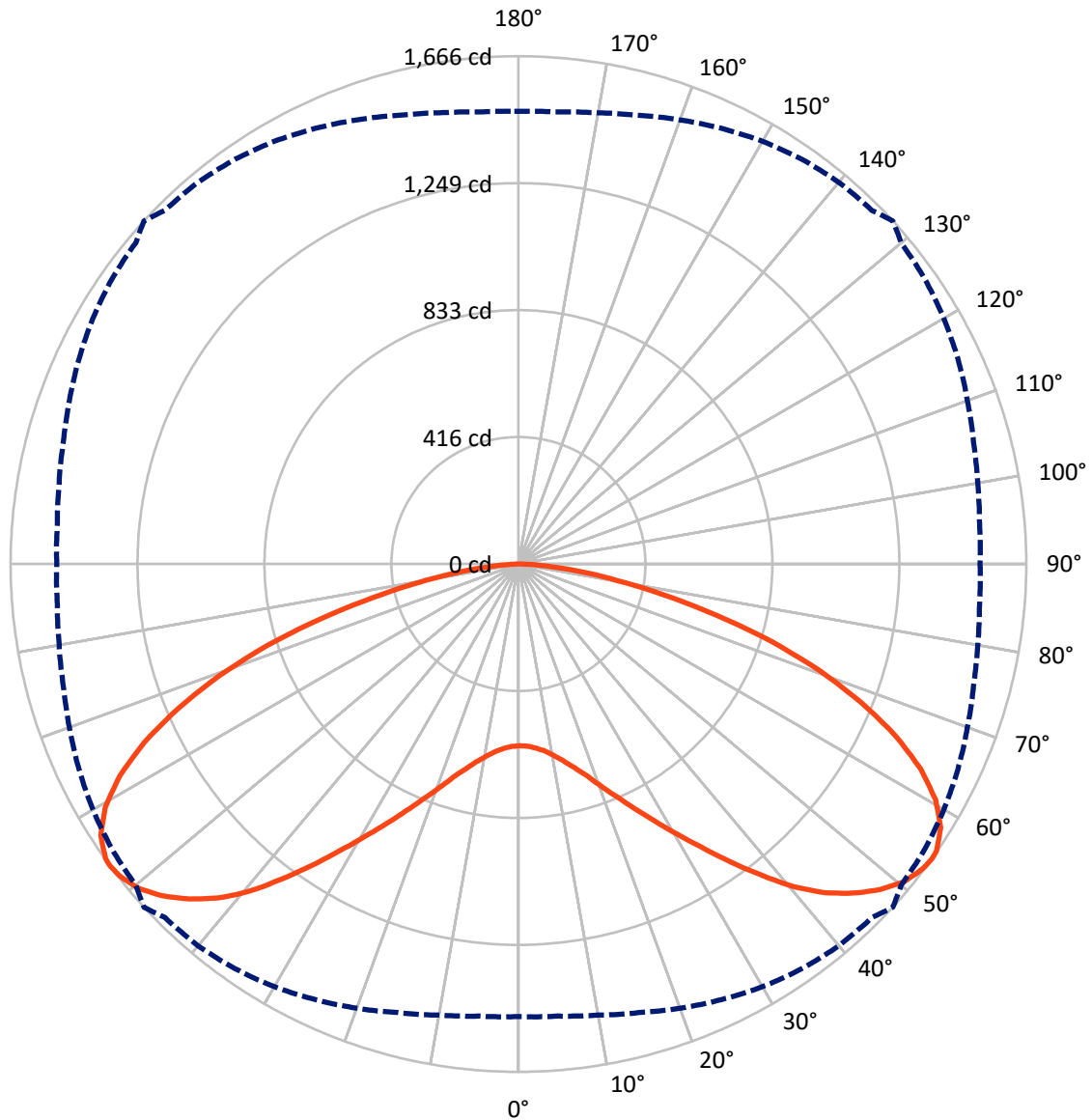


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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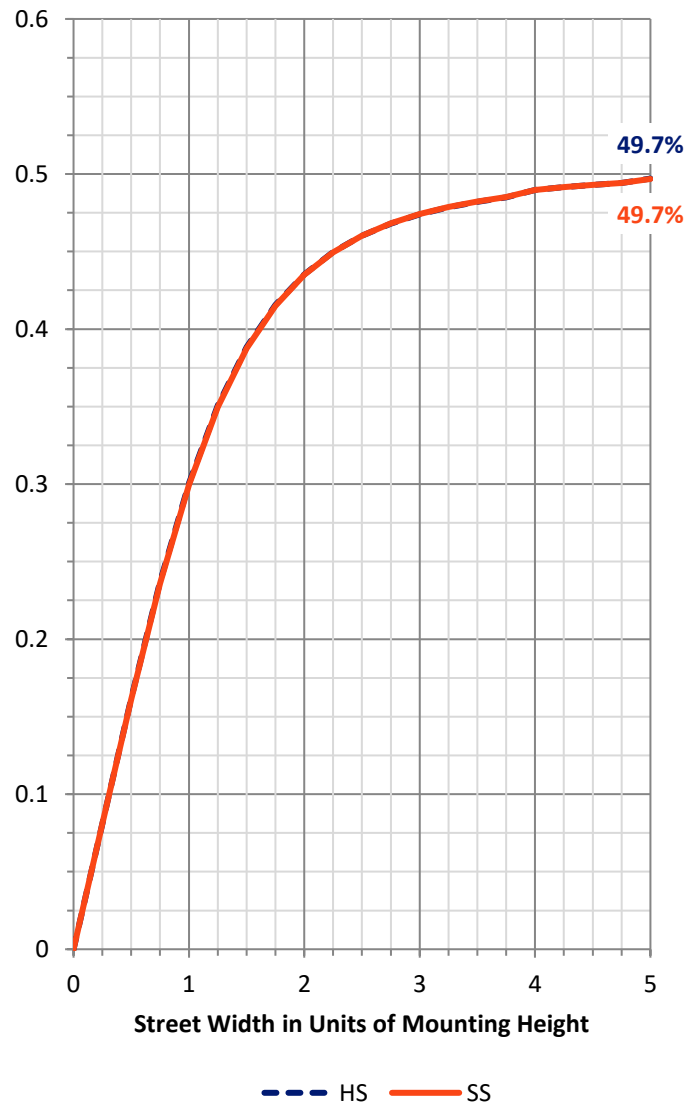
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3000.0 | 0.0 | 3000.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3000.0 | 0.0 | 3000.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5999.9 | 0.0 | 5999.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.8 | 1.0 |
| 10°-20° | 199.4 | 3.3 |
| 20°-30° | 410.5 | 6.8 |
| 30°-40° | 734.1 | 12.2 |
| 40°-50° | 1126.4 | 18.8 |
| 50°-60° | 1388.7 | 23.1 |
| 60°-70° | 1256.4 | 20.9 |
| 70°-80° | 691.8 | 11.5 |
| 80°-90° | 133.8 | 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° | 5999.9 | 100.0 |
| 0°-180° | 5999.9 | 100.0 |



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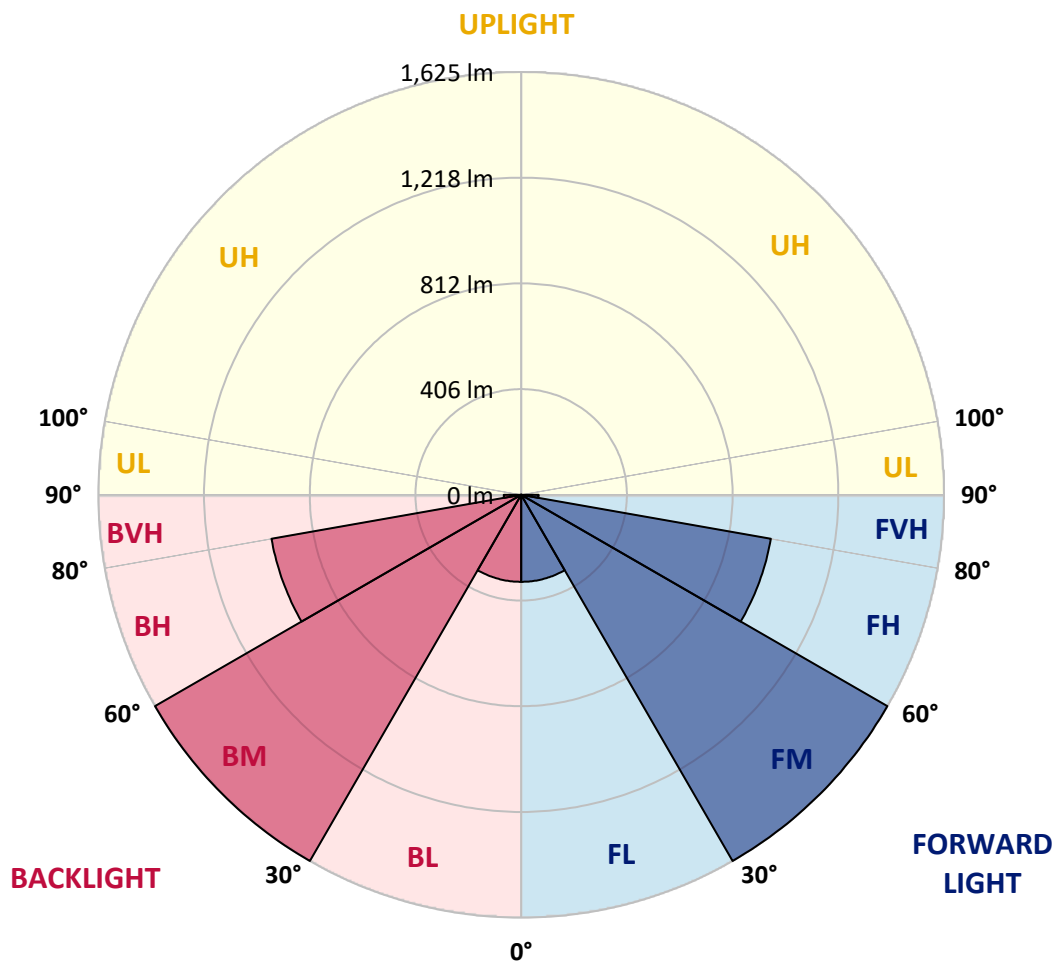
CATALOG NUMBER: TT-C4-LED-E1-5WQ-PM-SG-LWR-LW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 334.4 | 5.6 | | | |
| FM | (30°-60°) | 1624.6 | 27.1 | | | |
| FH | (60°-80°) | 974.1 | 16.2 | | | G1/1800 |
| FVH | (80°-90°) | 66.9 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 334.4 | 5.6 | B1/500 | | |
| BM | (30°-60°) | 1624.6 | 27.1 | B2/2500 | | |
| BH | (60°-80°) | 974.1 | 16.2 | B2/1000 | | G1/1800 |
| BVH | (80°-90°) | 66.9 | 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° | 47.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 595.8 | 595.8 | 595.8 | 595.8 | 595.8 | 595.8 | 595.8 | 595.8 | 595.8 | 595.8 | 595.8 |
| 2.5° | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 |
| 5° | 606.1 | 606.1 | 606.1 | 607.4 | 606.1 | 606.1 | 606.1 | 606.1 | 606.1 | 606.1 | 606.1 |
| 7.5° | 619.1 | 619.1 | 619.1 | 619.1 | 619.1 | 619.1 | 617.8 | 617.8 | 619.1 | 617.8 | 619.1 |
| 10° | 637.2 | 635.9 | 635.9 | 637.2 | 637.2 | 635.9 | 637.2 | 637.2 | 637.2 | 637.2 | 638.5 |
| 12.5° | 660.5 | 660.5 | 661.8 | 661.8 | 661.8 | 663.1 | 663.1 | 661.8 | 663.1 | 663.1 | 663.1 |
| 15° | 691.6 | 691.6 | 691.6 | 691.6 | 692.9 | 694.2 | 692.9 | 692.9 | 691.6 | 691.6 | 694.2 |
| 17.5° | 727.9 | 727.9 | 727.9 | 727.9 | 730.4 | 730.4 | 729.1 | 730.4 | 731.7 | 731.7 | 730.4 |
| 20° | 771.9 | 770.6 | 769.3 | 770.6 | 773.2 | 773.2 | 774.5 | 775.8 | 775.8 | 775.8 | 778.4 |
| 22.5° | 818.5 | 817.2 | 819.8 | 821.1 | 822.4 | 823.7 | 823.7 | 825.0 | 827.6 | 826.3 | 830.2 |
| 25° | 870.3 | 869.0 | 870.3 | 872.9 | 878.1 | 878.1 | 879.4 | 882.0 | 882.0 | 880.7 | 889.7 |
| 27.5° | 928.6 | 928.6 | 929.9 | 935.1 | 936.4 | 937.7 | 941.5 | 944.1 | 948.0 | 948.0 | 955.8 |
| 30° | 992.1 | 990.8 | 993.4 | 998.5 | 1002.4 | 1006.3 | 1011.5 | 1018.0 | 1019.3 | 1020.6 | 1028.3 |
| 32.5° | 1056.8 | 1056.8 | 1059.4 | 1068.5 | 1074.9 | 1081.4 | 1089.2 | 1095.7 | 1098.3 | 1098.3 | 1109.9 |
| 35° | 1125.5 | 1126.7 | 1133.2 | 1139.7 | 1152.7 | 1160.4 | 1168.2 | 1177.3 | 1182.4 | 1185.0 | 1200.6 |
| 37.5° | 1198.0 | 1201.9 | 1207.0 | 1216.1 | 1229.1 | 1242.0 | 1253.7 | 1267.9 | 1275.7 | 1278.3 | 1295.1 |
| 40° | 1266.6 | 1271.8 | 1279.6 | 1292.5 | 1305.5 | 1323.6 | 1337.9 | 1352.1 | 1361.2 | 1366.3 | 1392.2 |
| 42.5° | 1334.0 | 1336.6 | 1345.6 | 1359.9 | 1376.7 | 1393.5 | 1413.0 | 1428.5 | 1437.6 | 1445.3 | 1473.8 |
| 45° | 1387.1 | 1389.7 | 1401.3 | 1418.2 | 1437.6 | 1458.3 | 1477.7 | 1495.9 | 1504.9 | 1511.4 | 1539.9 |
| 47.5° | 1431.1 | 1436.3 | 1449.2 | 1466.1 | 1485.5 | 1510.1 | 1532.1 | 1550.3 | 1561.9 | 1565.8 | 1595.6 |
| 50° | 1463.5 | 1471.3 | 1482.9 | 1502.3 | 1525.6 | 1550.3 | 1573.6 | 1593.0 | 1605.9 | 1611.1 | 1638.3 |
| 52.5° | 1481.6 | 1488.1 | 1501.0 | 1520.5 | 1547.7 | 1572.3 | 1596.9 | 1616.3 | 1630.5 | 1635.7 | 1660.3 |
| 54° | 1484.2 | 1488.1 | 1502.3 | 1523.1 | 1550.3 | 1576.2 | 1600.8 | 1620.2 | 1634.4 | 1639.6 | 1665.5 |
| 55° | 1481.6 | 1484.2 | 1499.7 | 1519.2 | 1547.7 | 1573.6 | 1598.2 | 1617.6 | 1633.1 | 1638.3 | 1662.9 |
| 57.5° | 1455.7 | 1459.6 | 1472.5 | 1493.3 | 1519.2 | 1549.0 | 1572.3 | 1591.7 | 1607.2 | 1609.8 | 1633.1 |
| 60° | 1402.6 | 1407.8 | 1419.4 | 1441.5 | 1467.4 | 1493.3 | 1516.6 | 1533.4 | 1547.7 | 1555.4 | 1572.3 |
| 62.5° | 1326.2 | 1328.8 | 1340.4 | 1359.9 | 1383.2 | 1410.4 | 1428.5 | 1445.3 | 1458.3 | 1466.1 | 1480.3 |
| 65° | 1217.4 | 1229.1 | 1238.1 | 1253.7 | 1271.8 | 1293.8 | 1317.1 | 1330.1 | 1336.6 | 1349.5 | 1359.9 |
| 67.5° | 1095.7 | 1103.4 | 1112.5 | 1126.7 | 1138.4 | 1152.7 | 1174.7 | 1186.3 | 1194.1 | 1203.2 | 1212.2 |
| 70° | 959.7 | 957.1 | 967.5 | 975.2 | 988.2 | 997.2 | 1011.5 | 1018.0 | 1027.0 | 1032.2 | 1047.7 |
| 72.5° | 797.8 | 801.7 | 810.7 | 819.8 | 823.7 | 826.3 | 837.9 | 841.8 | 849.6 | 847.0 | 866.4 |
| 75° | 651.4 | 645.0 | 647.6 | 648.9 | 651.4 | 648.9 | 656.6 | 660.5 | 664.4 | 660.5 | 670.9 |
| 77.5° | 492.1 | 484.4 | 487.0 | 485.7 | 485.7 | 483.1 | 481.8 | 481.8 | 483.1 | 480.5 | 487.0 |
| 80° | 339.3 | 335.4 | 336.7 | 339.3 | 332.8 | 334.1 | 326.4 | 326.4 | 326.4 | 326.4 | 329.0 |
| 82.5° | 209.8 | 204.6 | 203.3 | 204.6 | 204.6 | 200.7 | 202.0 | 196.9 | 195.6 | 194.3 | 205.9 |
| 85° | 102.3 | 99.7 | 102.3 | 99.7 | 98.4 | 98.4 | 95.8 | 97.1 | 94.5 | 93.2 | 101.0 |
| 87.5° | 27.2 | 25.9 | 25.9 | 25.9 | 24.6 | 25.9 | 25.9 | 25.9 | 25.9 | 27.2 | 31.1 |
| 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):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 595.8 | 595.8 | 595.8 | 595.8 | 595.8 | 595.8 | 595.8 | 595.8 | 595.8 |
| 2.5° | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 597.0 |
| 5° | 606.1 | 606.1 | 606.1 | 606.1 | 606.1 | 606.1 | 606.1 | 606.1 | 606.1 |
| 7.5° | 619.1 | 619.1 | 617.8 | 617.8 | 617.8 | 617.8 | 617.8 | 617.8 | 617.8 |
| 10° | 637.2 | 638.5 | 635.9 | 635.9 | 637.2 | 635.9 | 635.9 | 634.6 | 634.6 |
| 12.5° | 663.1 | 661.8 | 663.1 | 663.1 | 661.8 | 660.5 | 659.2 | 657.9 | 659.2 |
| 15° | 692.9 | 691.6 | 691.6 | 691.6 | 690.3 | 690.3 | 689.0 | 690.3 | 689.0 |
| 17.5° | 729.1 | 729.1 | 730.4 | 726.6 | 727.9 | 725.3 | 725.3 | 725.3 | 724.0 |
| 20° | 775.8 | 774.5 | 773.2 | 769.3 | 770.6 | 768.0 | 766.7 | 765.4 | 764.1 |
| 22.5° | 826.3 | 823.7 | 822.4 | 818.5 | 819.8 | 817.2 | 813.3 | 810.7 | 810.7 |
| 25° | 882.0 | 879.4 | 876.8 | 875.5 | 874.2 | 869.0 | 866.4 | 862.5 | 865.1 |
| 27.5° | 948.0 | 942.8 | 939.0 | 933.8 | 935.1 | 928.6 | 926.0 | 923.4 | 923.4 |
| 30° | 1019.3 | 1015.4 | 1008.9 | 1005.0 | 1003.7 | 997.2 | 992.1 | 989.5 | 988.2 |
| 32.5° | 1097.0 | 1094.4 | 1090.5 | 1084.0 | 1081.4 | 1071.1 | 1067.2 | 1063.3 | 1062.0 |
| 35° | 1188.9 | 1182.4 | 1178.6 | 1169.5 | 1160.4 | 1153.9 | 1144.9 | 1142.3 | 1139.7 |
| 37.5° | 1274.4 | 1274.4 | 1267.9 | 1257.6 | 1244.6 | 1235.5 | 1227.8 | 1222.6 | 1218.7 |
| 40° | 1365.1 | 1362.5 | 1352.1 | 1343.0 | 1330.1 | 1317.1 | 1302.9 | 1297.7 | 1295.1 |
| 42.5° | 1445.3 | 1440.2 | 1429.8 | 1418.2 | 1405.2 | 1389.7 | 1374.1 | 1366.3 | 1365.1 |
| 45° | 1512.7 | 1506.2 | 1495.9 | 1480.3 | 1463.5 | 1447.9 | 1433.7 | 1425.9 | 1422.0 |
| 47.5° | 1567.1 | 1559.3 | 1546.4 | 1532.1 | 1512.7 | 1494.6 | 1480.3 | 1472.5 | 1467.4 |
| 50° | 1607.2 | 1600.8 | 1586.5 | 1568.4 | 1549.0 | 1528.2 | 1514.0 | 1504.9 | 1501.0 |
| 52.5° | 1633.1 | 1624.1 | 1608.5 | 1589.1 | 1567.1 | 1546.4 | 1529.5 | 1519.2 | 1515.3 |
| 54° | 1638.3 | 1628.0 | 1611.1 | 1590.4 | 1567.1 | 1545.1 | 1529.5 | 1517.9 | 1514.0 |
| 55° | 1635.7 | 1625.4 | 1607.2 | 1587.8 | 1563.2 | 1541.2 | 1524.3 | 1512.7 | 1508.8 |
| 57.5° | 1608.5 | 1596.9 | 1580.0 | 1559.3 | 1533.4 | 1511.4 | 1495.9 | 1482.9 | 1479.0 |
| 60° | 1550.3 | 1539.9 | 1520.5 | 1502.3 | 1476.4 | 1454.4 | 1437.6 | 1424.6 | 1420.7 |
| 62.5° | 1460.9 | 1451.8 | 1435.0 | 1416.9 | 1389.7 | 1370.2 | 1353.4 | 1345.6 | 1335.3 |
| 65° | 1341.7 | 1335.3 | 1318.4 | 1296.4 | 1277.0 | 1257.6 | 1240.7 | 1235.5 | 1229.1 |
| 67.5° | 1199.3 | 1190.2 | 1183.7 | 1161.7 | 1146.2 | 1128.0 | 1111.2 | 1100.8 | 1098.3 |
| 70° | 1030.9 | 1027.0 | 1020.6 | 999.8 | 990.8 | 975.2 | 963.6 | 954.5 | 951.9 |
| 72.5° | 849.6 | 845.7 | 844.4 | 834.1 | 822.4 | 808.2 | 803.0 | 795.2 | 793.9 |
| 75° | 660.5 | 657.9 | 660.5 | 652.7 | 648.9 | 645.0 | 642.4 | 642.4 | 638.5 |
| 77.5° | 477.9 | 481.8 | 483.1 | 483.1 | 485.7 | 485.7 | 488.3 | 484.4 | 480.5 |
| 80° | 325.1 | 329.0 | 327.7 | 330.3 | 329.0 | 338.0 | 331.5 | 336.7 | 331.5 |
| 82.5° | 195.6 | 200.7 | 200.7 | 200.7 | 205.9 | 204.6 | 204.6 | 207.2 | 205.9 |
| 85° | 95.8 | 97.1 | 95.8 | 94.5 | 101.0 | 99.7 | 99.7 | 98.4 | 99.7 |
| 87.5° | 28.5 | 25.9 | 27.2 | 24.6 | 27.2 | 23.3 | 25.9 | 25.9 | 27.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)