

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: P158543

Luminaire Tested: **VTS-F03-LED-E1-SL4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158543  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-F03-LED-E1-SL4-8030  
Description: VENTUS LED SITE LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

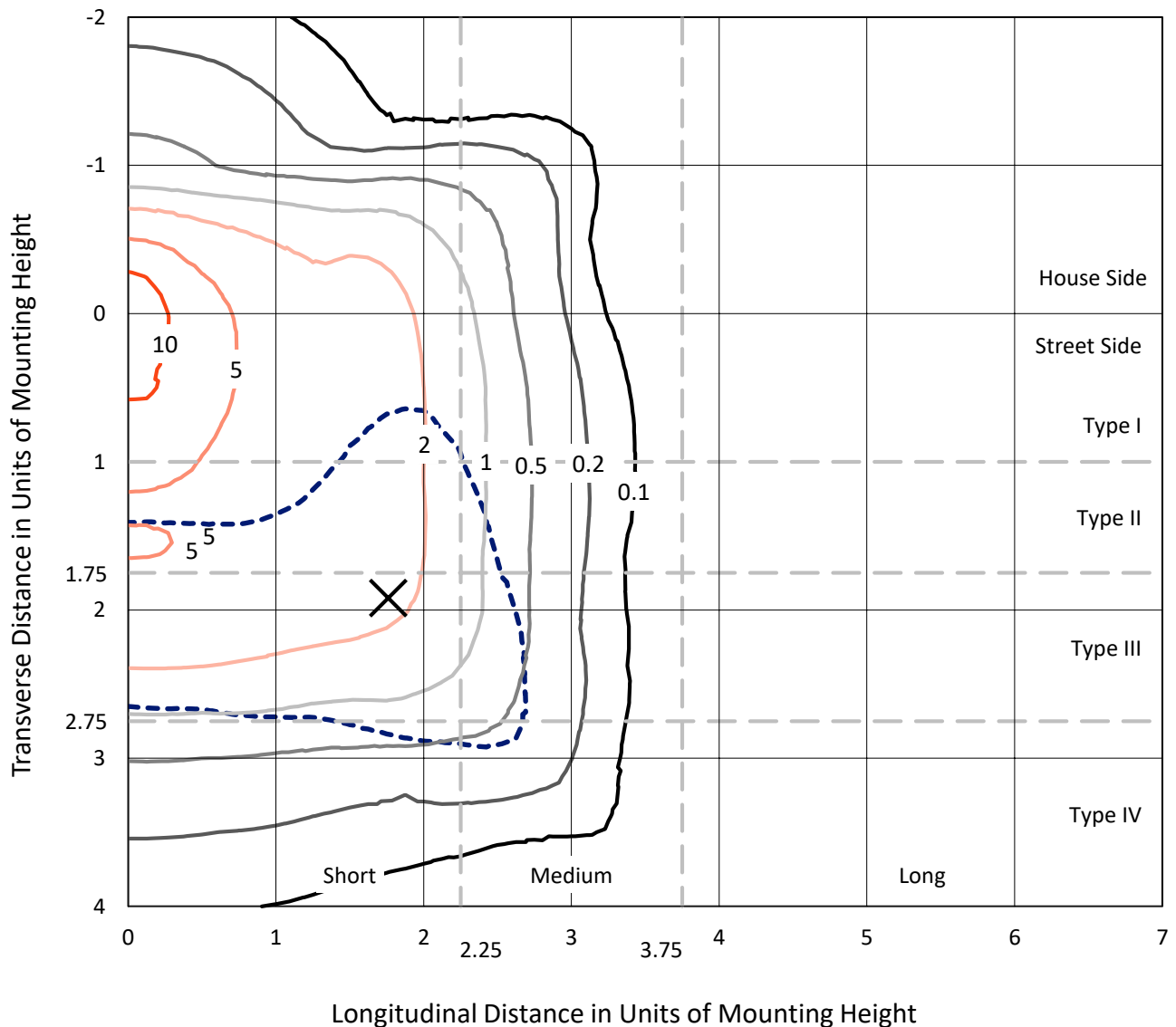
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6063.5 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 78.3  
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

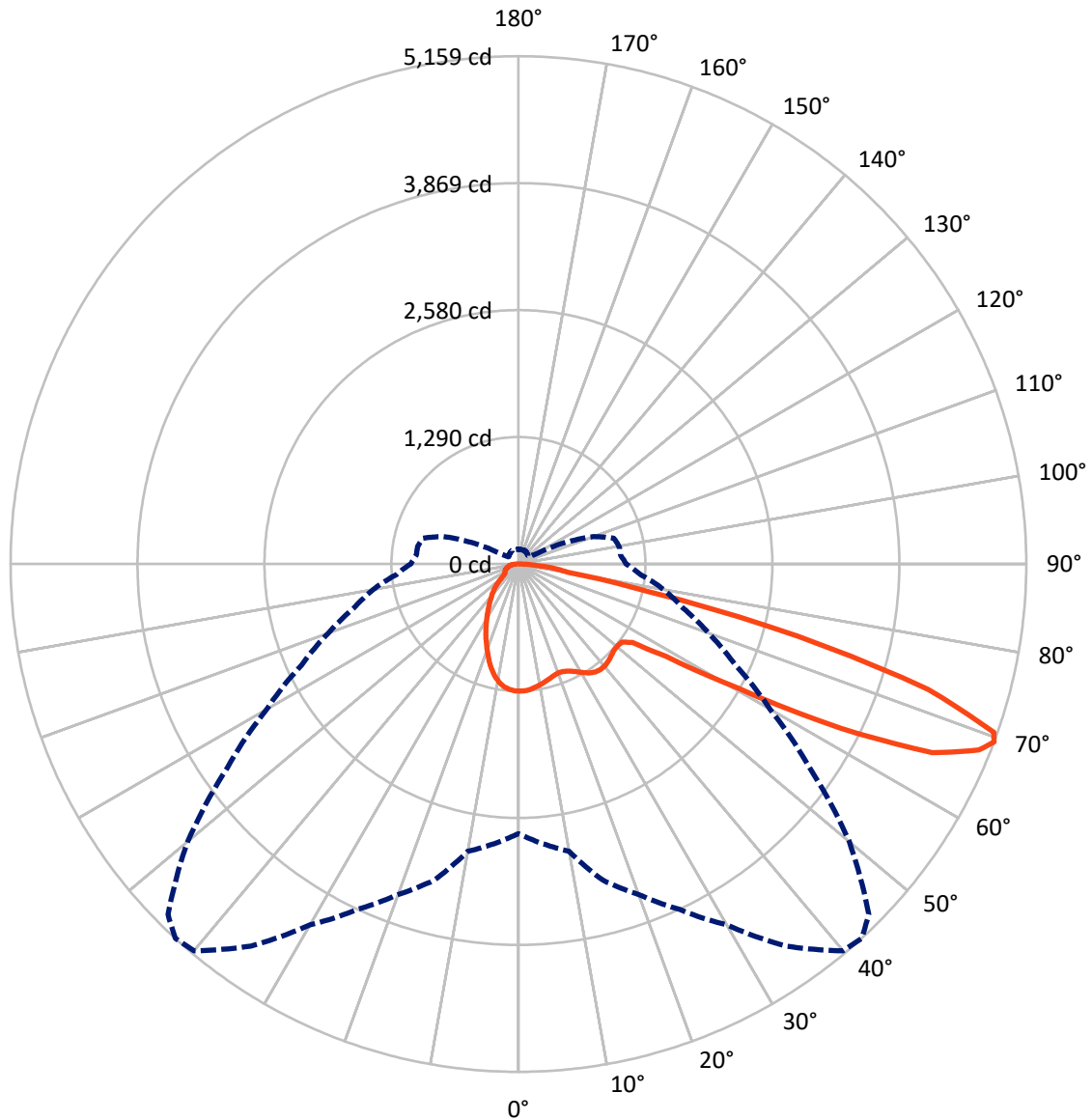
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1348.0   | 0.0    | 1348.0 |
|                    | % Fixture | 22.2     | 0.0    | 22.2   |
| <b>Street Side</b> | Lumens    | 4715.5   | 0.0    | 4715.5 |
|                    | % Fixture | 77.8     | 0.0    | 77.8   |
| <b>Total</b>       | Lumens    | 6063.5   | 0.0    | 6063.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 120.2  | 2.0       |
| 10°-20°   | 324.0  | 5.3       |
| 20°-30°   | 472.4  | 7.8       |
| 30°-40°   | 602.2  | 9.9       |
| 40°-50°   | 700.7  | 11.6      |
| 50°-60°   | 1066.2 | 17.6      |
| 60°-70°   | 1883.3 | 31.1      |
| 70°-80°   | 777.2  | 12.8      |
| 80°-90°   | 117.3  | 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°    | 6063.5 | 100.0     |
| 0°-180°   | 6063.5 | 100.0     |



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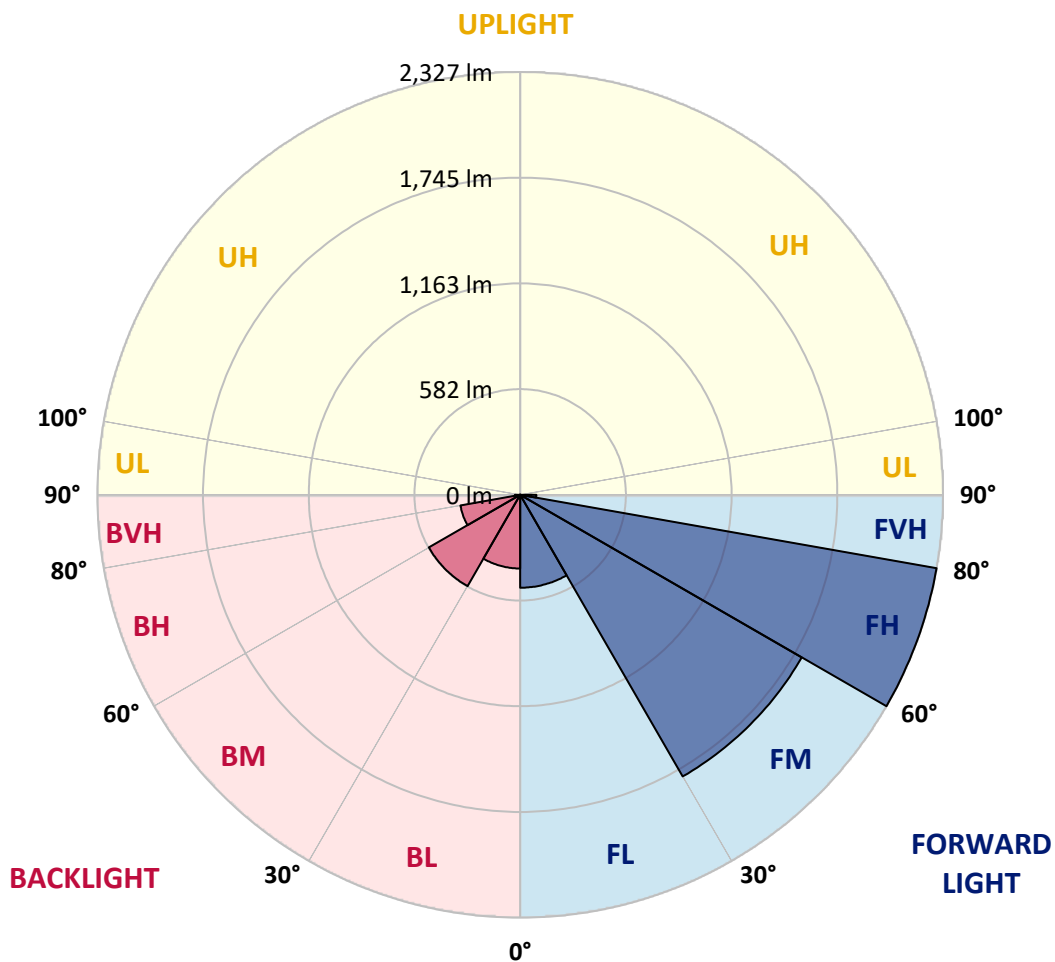
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 511.3  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 1788.9 | 29.5      |                         |      |         |
| FH   | (60°-80°)   | 2326.6 | 38.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 88.7   | 1.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 405.3  | 6.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 580.2  | 9.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 333.9  | 5.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 28.6   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 42.5°  | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 |
| 2.5°  | 1287.1 | 1291.7 | 1290.1 | 1290.1 | 1291.3 | 1289.2 | 1289.2 | 1290.1 | 1288.0 | 1289.2 | 1288.8 |
| 5°    | 1282.6 | 1285.1 | 1284.2 | 1284.2 | 1284.2 | 1282.6 | 1281.7 | 1281.3 | 1278.4 | 1278.4 | 1277.1 |
| 7.5°  | 1272.5 | 1273.4 | 1274.6 | 1272.9 | 1272.5 | 1272.1 | 1269.2 | 1267.5 | 1264.2 | 1261.2 | 1262.1 |
| 10°   | 1259.1 | 1258.7 | 1260.8 | 1259.6 | 1257.9 | 1256.6 | 1254.1 | 1251.2 | 1247.4 | 1243.7 | 1243.3 |
| 12.5° | 1244.1 | 1243.7 | 1245.3 | 1244.5 | 1243.3 | 1240.7 | 1238.7 | 1233.6 | 1227.8 | 1223.2 | 1222.8 |
| 15°   | 1234.5 | 1233.2 | 1234.9 | 1233.2 | 1231.1 | 1228.6 | 1224.9 | 1218.6 | 1208.1 | 1203.5 | 1199.8 |
| 17.5° | 1243.7 | 1241.6 | 1242.4 | 1240.3 | 1237.4 | 1230.7 | 1221.9 | 1208.6 | 1193.5 | 1185.6 | 1179.7 |
| 20°   | 1275.9 | 1272.1 | 1272.9 | 1270.8 | 1264.2 | 1255.4 | 1238.7 | 1215.2 | 1189.7 | 1176.8 | 1167.6 |
| 22.5° | 1321.8 | 1318.9 | 1320.2 | 1318.1 | 1311.4 | 1298.0 | 1272.9 | 1239.5 | 1203.1 | 1184.3 | 1169.7 |
| 25°   | 1391.7 | 1394.2 | 1395.0 | 1385.4 | 1381.6 | 1357.0 | 1322.3 | 1275.9 | 1227.4 | 1205.2 | 1185.1 |
| 27.5° | 1470.3 | 1470.3 | 1474.0 | 1470.3 | 1462.7 | 1433.9 | 1385.0 | 1329.0 | 1266.7 | 1236.6 | 1212.3 |
| 30°   | 1546.8 | 1545.9 | 1553.0 | 1552.2 | 1540.1 | 1507.5 | 1451.9 | 1383.7 | 1312.6 | 1278.8 | 1247.9 |
| 32.5° | 1627.9 | 1630.4 | 1635.0 | 1633.3 | 1617.4 | 1572.3 | 1505.4 | 1431.4 | 1356.5 | 1319.3 | 1284.6 |
| 35°   | 1715.6 | 1716.9 | 1718.6 | 1717.7 | 1685.5 | 1628.7 | 1544.7 | 1461.9 | 1384.1 | 1347.3 | 1311.4 |
| 37.5° | 1803.4 | 1802.2 | 1800.1 | 1782.1 | 1745.3 | 1666.3 | 1568.5 | 1479.4 | 1397.9 | 1358.2 | 1321.0 |
| 40°   | 1882.0 | 1874.9 | 1868.2 | 1840.2 | 1783.8 | 1687.6 | 1577.7 | 1483.6 | 1396.7 | 1355.7 | 1319.3 |
| 42.5° | 1925.1 | 1917.1 | 1903.3 | 1868.2 | 1799.7 | 1689.7 | 1571.4 | 1471.1 | 1383.7 | 1343.2 | 1307.2 |
| 45°   | 1933.0 | 1927.2 | 1913.8 | 1874.5 | 1795.9 | 1676.3 | 1552.2 | 1450.6 | 1364.5 | 1323.9 | 1290.1 |
| 47.5° | 1914.2 | 1909.6 | 1896.7 | 1857.8 | 1779.6 | 1656.3 | 1530.0 | 1428.9 | 1345.7 | 1307.6 | 1275.0 |
| 50°   | 1885.4 | 1881.2 | 1871.2 | 1835.6 | 1761.2 | 1642.5 | 1518.7 | 1417.6 | 1339.4 | 1304.7 | 1274.6 |
| 52.5° | 1932.2 | 1935.5 | 1906.3 | 1867.4 | 1780.9 | 1654.6 | 1531.3 | 1429.3 | 1350.7 | 1316.4 | 1285.1 |
| 55°   | 2660.0 | 2655.4 | 2479.4 | 2331.8 | 2068.1 | 1828.9 | 1650.4 | 1522.1 | 1438.1 | 1403.8 | 1374.5 |
| 57.5° | 3456.4 | 3440.5 | 3368.2 | 3230.2 | 2946.8 | 2568.4 | 2224.4 | 1931.8 | 1816.4 | 1767.1 | 1770.4 |
| 60°   | 3716.4 | 3722.2 | 3706.8 | 3657.9 | 3556.3 | 3359.4 | 3097.7 | 2877.8 | 2661.3 | 2555.5 | 2567.6 |
| 62.5° | 3860.6 | 3871.1 | 3884.4 | 3873.6 | 3840.5 | 3795.0 | 3762.0 | 3782.0 | 3751.9 | 3675.8 | 3615.2 |
| 65°   | 3880.7 | 3902.0 | 3946.3 | 3981.4 | 3998.6 | 4041.6 | 4142.8 | 4385.3 | 4606.8 | 4621.4 | 4514.8 |
| 67.5° | 3483.5 | 3542.5 | 3638.6 | 3801.2 | 3940.5 | 4093.5 | 4337.6 | 4706.3 | 5033.2 | 5044.1 | 4944.6 |
| 69°   | 2739.0 | 2852.3 | 2964.7 | 3328.0 | 3572.6 | 3872.3 | 4233.5 | 4737.2 | 5128.9 | 5159.0 | 5033.6 |
| 70°   | 2194.7 | 2262.0 | 2359.0 | 2724.0 | 3089.3 | 3471.4 | 3994.8 | 4635.2 | 5063.3 | 5123.9 | 4985.6 |
| 72.5° | 1317.7 | 1343.6 | 1377.0 | 1507.9 | 1696.0 | 2036.3 | 2730.2 | 3779.1 | 4271.1 | 4352.2 | 4176.2 |
| 75°   | 852.0  | 850.3  | 853.2  | 889.6  | 900.5  | 965.7  | 1184.3 | 1944.3 | 2786.2 | 2933.4 | 2722.7 |
| 77.5° | 641.7  | 647.5  | 638.3  | 641.7  | 638.8  | 656.3  | 663.0  | 696.0  | 1099.9 | 1354.9 | 1211.5 |
| 80°   | 566.4  | 569.4  | 569.8  | 568.1  | 547.6  | 546.0  | 556.8  | 538.0  | 500.0  | 507.5  | 486.2  |
| 82.5° | 323.1  | 322.7  | 326.5  | 354.9  | 366.6  | 405.1  | 421.0  | 429.7  | 396.7  | 372.1  | 336.5  |
| 85°   | 209.4  | 211.1  | 215.3  | 224.1  | 215.3  | 218.6  | 214.9  | 222.4  | 204.0  | 189.4  | 169.3  |
| 87.5° | 85.7   | 85.7   | 91.1   | 99.1   | 92.4   | 90.7   | 77.8   | 76.9   | 65.2   | 58.9   | 46.0   |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 |
| 2.5°  | 1286.3 | 1288.8 | 1287.6 | 1289.2 | 1288.0 | 1288.0 | 1286.3 | 1285.9 | 1287.1 | 1285.5 | 1285.9 |
| 5°    | 1275.0 | 1275.4 | 1273.4 | 1274.2 | 1271.7 | 1270.8 | 1269.6 | 1266.2 | 1268.3 | 1266.2 | 1267.1 |
| 7.5°  | 1258.7 | 1257.5 | 1254.5 | 1250.4 | 1247.4 | 1246.2 | 1243.7 | 1239.1 | 1239.9 | 1236.1 | 1238.2 |
| 10°   | 1237.8 | 1233.6 | 1228.6 | 1222.4 | 1218.2 | 1214.4 | 1209.0 | 1203.5 | 1200.6 | 1197.3 | 1196.9 |
| 12.5° | 1214.4 | 1209.4 | 1202.7 | 1193.1 | 1183.9 | 1177.6 | 1169.3 | 1159.6 | 1156.7 | 1151.3 | 1148.4 |
| 15°   | 1188.9 | 1181.0 | 1173.0 | 1162.2 | 1152.1 | 1142.5 | 1131.2 | 1119.1 | 1111.2 | 1102.8 | 1096.5 |
| 17.5° | 1165.9 | 1156.7 | 1146.3 | 1135.8 | 1124.9 | 1113.2 | 1099.0 | 1084.0 | 1072.3 | 1056.8 | 1044.3 |
| 20°   | 1147.9 | 1136.2 | 1125.8 | 1114.9 | 1102.8 | 1088.6 | 1071.4 | 1052.2 | 1032.6 | 1015.4 | 1000.8 |
| 22.5° | 1140.8 | 1122.4 | 1109.9 | 1099.0 | 1086.9 | 1070.2 | 1049.3 | 1026.7 | 1002.9 | 979.1  | 959.8  |
| 25°   | 1146.7 | 1119.5 | 1099.9 | 1086.9 | 1076.5 | 1059.3 | 1035.9 | 1008.3 | 980.7  | 952.3  | 926.4  |
| 27.5° | 1163.8 | 1129.1 | 1100.7 | 1080.2 | 1068.1 | 1051.0 | 1026.3 | 997.0  | 964.4  | 932.7  | 900.9  |
| 30°   | 1190.6 | 1145.4 | 1109.5 | 1080.6 | 1061.8 | 1042.2 | 1016.3 | 982.4  | 949.4  | 913.0  | 878.3  |
| 32.5° | 1216.5 | 1162.6 | 1119.5 | 1082.3 | 1053.5 | 1028.0 | 999.1  | 965.7  | 930.1  | 892.1  | 856.1  |
| 35°   | 1234.9 | 1173.9 | 1123.3 | 1078.5 | 1040.5 | 1008.7 | 977.8  | 944.4  | 909.7  | 870.8  | 834.0  |
| 37.5° | 1243.7 | 1180.1 | 1123.7 | 1068.5 | 1023.4 | 988.2  | 955.2  | 922.2  | 889.6  | 852.8  | 818.1  |
| 40°   | 1243.3 | 1179.7 | 1117.8 | 1055.6 | 1002.9 | 965.7  | 933.1  | 900.9  | 870.4  | 838.2  | 806.8  |
| 42.5° | 1234.1 | 1173.0 | 1109.5 | 1043.0 | 988.2  | 946.9  | 913.0  | 882.1  | 856.1  | 827.7  | 801.4  |
| 45°   | 1219.8 | 1161.7 | 1100.7 | 1037.2 | 984.1  | 942.7  | 906.7  | 876.6  | 853.6  | 827.7  | 805.1  |
| 47.5° | 1209.0 | 1155.5 | 1102.0 | 1047.6 | 997.0  | 954.0  | 915.9  | 882.9  | 863.3  | 842.4  | 826.5  |
| 50°   | 1210.6 | 1158.4 | 1106.1 | 1053.9 | 1006.2 | 962.7  | 926.0  | 895.9  | 881.6  | 876.2  | 872.5  |
| 52.5° | 1219.4 | 1163.0 | 1118.7 | 1087.3 | 1071.0 | 1038.4 | 1016.7 | 997.9  | 1008.3 | 987.8  | 963.6  |
| 55°   | 1331.5 | 1313.1 | 1356.1 | 1396.7 | 1448.1 | 1467.3 | 1448.9 | 1445.6 | 1462.3 | 1392.9 | 1233.6 |
| 57.5° | 1794.2 | 1841.9 | 1908.4 | 1943.5 | 1986.1 | 1974.8 | 1932.2 | 1896.7 | 1854.8 | 1773.7 | 1575.2 |
| 60°   | 2581.4 | 2545.5 | 2515.4 | 2430.5 | 2361.1 | 2280.0 | 2189.7 | 2112.4 | 2038.4 | 1921.7 | 1706.9 |
| 62.5° | 3392.4 | 3142.8 | 2934.2 | 2732.7 | 2570.5 | 2435.9 | 2305.1 | 2188.9 | 2076.8 | 1914.2 | 1683.0 |
| 65°   | 4093.9 | 3568.4 | 3176.7 | 2881.1 | 2644.1 | 2439.7 | 2271.6 | 2111.1 | 1968.6 | 1777.9 | 1549.3 |
| 67.5° | 4409.1 | 3750.7 | 3180.9 | 2757.4 | 2429.2 | 2151.7 | 1934.3 | 1691.8 | 1532.1 | 1410.1 | 1281.3 |
| 69°   | 4385.7 | 3611.5 | 2953.9 | 2432.6 | 2055.5 | 1731.9 | 1498.7 | 1245.8 | 1092.8 | 1040.9 | 1038.0 |
| 70°   | 4274.5 | 3375.7 | 2688.8 | 2168.8 | 1737.4 | 1415.9 | 1192.3 | 965.3  | 822.7  | 787.2  | 850.3  |
| 72.5° | 3489.8 | 2385.3 | 1685.1 | 1286.7 | 989.5  | 782.2  | 637.9  | 506.2  | 404.2  | 350.3  | 362.0  |
| 75°   | 1971.1 | 1104.5 | 714.0  | 539.7  | 456.1  | 377.1  | 323.6  | 275.9  | 249.6  | 202.8  | 160.5  |
| 77.5° | 716.5  | 474.1  | 377.1  | 326.1  | 231.2  | 159.3  | 133.4  | 116.6  | 105.8  | 105.8  | 100.7  |
| 80°   | 453.2  | 357.0  | 249.2  | 170.6  | 126.2  | 109.9  | 96.1   | 84.4   | 77.8   | 76.1   | 77.8   |
| 82.5° | 283.0  | 218.6  | 139.6  | 107.0  | 89.9   | 80.7   | 70.2   | 61.5   | 56.0   | 54.8   | 57.3   |
| 85°   | 139.6  | 108.3  | 84.9   | 75.7   | 71.1   | 66.1   | 58.1   | 49.7   | 48.1   | 51.4   | 60.2   |
| 87.5° | 41.8   | 37.2   | 30.5   | 31.8   | 33.4   | 32.6   | 25.9   | 22.6   | 21.3   | 28.0   | 43.9   |
| 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):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 |
| 2.5°  | 1286.7 | 1286.3 | 1287.1 | 1285.9 | 1286.7 | 1287.1 | 1286.3 | 1290.1 | 1287.6 | 1288.0 | 1289.7 |
| 5°    | 1267.9 | 1267.1 | 1270.4 | 1269.6 | 1271.3 | 1272.9 | 1272.1 | 1277.5 | 1275.4 | 1277.1 | 1280.5 |
| 7.5°  | 1236.6 | 1238.2 | 1238.7 | 1238.7 | 1242.0 | 1247.4 | 1248.7 | 1252.0 | 1252.0 | 1256.6 | 1260.0 |
| 10°   | 1194.8 | 1195.2 | 1197.7 | 1197.3 | 1201.5 | 1207.3 | 1208.1 | 1214.0 | 1216.1 | 1223.6 | 1228.2 |
| 12.5° | 1146.3 | 1144.2 | 1143.8 | 1143.3 | 1148.8 | 1155.0 | 1155.9 | 1165.9 | 1170.1 | 1176.8 | 1184.3 |
| 15°   | 1091.9 | 1086.5 | 1084.8 | 1088.2 | 1086.9 | 1090.7 | 1094.4 | 1099.9 | 1105.7 | 1119.1 | 1125.8 |
| 17.5° | 1038.8 | 1028.0 | 1025.0 | 1021.3 | 1017.5 | 1017.5 | 1019.2 | 1025.9 | 1038.0 | 1045.1 | 1060.2 |
| 20°   | 984.5  | 971.5  | 961.1  | 951.0  | 942.3  | 938.9  | 939.3  | 947.7  | 956.5  | 968.2  | 982.4  |
| 22.5° | 938.9  | 919.3  | 901.3  | 887.9  | 869.9  | 869.5  | 867.0  | 869.5  | 879.1  | 882.1  | 890.0  |
| 25°   | 899.6  | 873.3  | 849.0  | 827.3  | 809.7  | 800.5  | 798.0  | 797.2  | 792.6  | 791.4  | 785.5  |
| 27.5° | 869.1  | 837.3  | 806.0  | 779.6  | 757.9  | 745.4  | 729.5  | 718.2  | 701.9  | 697.7  | 687.3  |
| 30°   | 844.0  | 809.7  | 775.5  | 741.2  | 716.5  | 693.9  | 667.2  | 647.5  | 622.5  | 606.2  | 591.9  |
| 32.5° | 819.8  | 785.1  | 750.4  | 716.5  | 678.5  | 643.4  | 608.3  | 577.7  | 549.7  | 524.6  | 503.7  |
| 35°   | 799.7  | 766.7  | 731.6  | 690.6  | 642.1  | 591.5  | 549.3  | 514.6  | 476.1  | 449.8  | 423.5  |
| 37.5° | 786.8  | 756.7  | 721.5  | 665.1  | 602.8  | 548.5  | 500.4  | 458.2  | 418.9  | 379.2  | 349.5  |
| 40°   | 780.9  | 754.6  | 710.7  | 641.7  | 568.5  | 508.3  | 455.2  | 408.4  | 358.3  | 313.5  | 281.8  |
| 42.5° | 780.5  | 753.7  | 695.6  | 615.8  | 540.1  | 474.5  | 415.5  | 359.5  | 303.9  | 257.9  | 226.6  |
| 45°   | 788.0  | 752.5  | 679.7  | 594.0  | 515.0  | 446.5  | 376.2  | 308.1  | 245.8  | 211.5  | 194.8  |
| 47.5° | 808.1  | 754.6  | 666.8  | 574.0  | 491.2  | 412.6  | 331.1  | 251.7  | 200.2  | 184.4  | 184.4  |
| 50°   | 844.0  | 766.7  | 663.4  | 559.8  | 467.4  | 373.3  | 275.9  | 203.2  | 177.2  | 177.2  | 182.3  |
| 52.5° | 899.2  | 792.2  | 669.3  | 549.7  | 437.7  | 321.5  | 217.4  | 175.2  | 170.1  | 174.7  | 181.4  |
| 55°   | 1026.3 | 837.3  | 677.2  | 532.6  | 392.5  | 255.0  | 179.3  | 165.5  | 167.6  | 173.1  | 179.3  |
| 57.5° | 1259.6 | 933.9  | 685.6  | 495.0  | 319.8  | 196.5  | 162.6  | 161.8  | 165.5  | 170.6  | 176.0  |
| 60°   | 1413.0 | 1056.8 | 706.9  | 438.1  | 242.0  | 162.2  | 154.3  | 159.3  | 163.9  | 168.1  | 172.2  |
| 62.5° | 1413.0 | 1091.5 | 722.8  | 374.6  | 181.8  | 147.6  | 148.8  | 156.8  | 162.2  | 164.3  | 166.8  |
| 65°   | 1322.7 | 1028.0 | 668.9  | 305.2  | 148.0  | 139.2  | 143.8  | 151.7  | 156.8  | 158.4  | 160.5  |
| 67.5° | 1155.9 | 908.0  | 563.5  | 229.9  | 132.1  | 132.1  | 138.0  | 143.8  | 148.0  | 151.3  | 154.7  |
| 69°   | 1005.0 | 814.8  | 496.2  | 194.8  | 125.8  | 126.7  | 132.5  | 137.5  | 142.6  | 146.7  | 150.9  |
| 70°   | 896.3  | 744.9  | 449.4  | 176.8  | 122.1  | 122.5  | 128.3  | 133.8  | 138.4  | 143.0  | 148.0  |
| 72.5° | 479.9  | 514.6  | 341.5  | 145.1  | 112.5  | 113.7  | 119.1  | 124.2  | 128.3  | 132.9  | 137.5  |
| 75°   | 163.5  | 221.1  | 217.4  | 118.7  | 101.6  | 104.9  | 108.3  | 112.9  | 118.3  | 121.2  | 123.7  |
| 77.5° | 95.7   | 99.1   | 115.8  | 96.6   | 91.6   | 93.2   | 97.0   | 100.7  | 105.3  | 108.3  | 110.4  |
| 80°   | 80.3   | 79.8   | 80.3   | 78.6   | 79.8   | 83.6   | 86.1   | 91.1   | 95.3   | 96.1   | 95.7   |
| 82.5° | 65.2   | 68.6   | 69.0   | 68.1   | 71.9   | 74.8   | 76.9   | 79.8   | 79.4   | 80.3   | 81.9   |
| 85°   | 58.1   | 57.7   | 60.6   | 61.0   | 61.0   | 58.9   | 59.4   | 59.4   | 59.4   | 60.6   | 61.0   |
| 87.5° | 58.1   | 48.5   | 37.6   | 33.9   | 35.5   | 33.4   | 31.8   | 31.4   | 34.7   | 38.0   | 37.2   |
| 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):**

|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 |
| 2.5°  | 1290.5 | 1291.7 | 1290.9 | 1290.9 | 1291.7 |
| 5°    | 1281.7 | 1283.8 | 1283.0 | 1283.8 | 1283.8 |
| 7.5°  | 1261.6 | 1264.6 | 1266.7 | 1268.8 | 1267.5 |
| 10°   | 1232.8 | 1237.8 | 1241.2 | 1243.7 | 1242.4 |
| 12.5° | 1189.7 | 1194.3 | 1201.5 | 1205.6 | 1202.3 |
| 15°   | 1130.8 | 1143.8 | 1147.9 | 1153.8 | 1150.4 |
| 17.5° | 1069.3 | 1077.3 | 1082.3 | 1087.7 | 1091.1 |
| 20°   | 987.4  | 993.7  | 1000.4 | 1002.9 | 999.1  |
| 22.5° | 888.8  | 892.1  | 890.8  | 894.6  | 887.1  |
| 25°   | 780.5  | 782.6  | 781.3  | 784.7  | 778.4  |
| 27.5° | 678.1  | 677.6  | 678.1  | 673.9  | 669.7  |
| 30°   | 579.4  | 575.6  | 574.0  | 567.7  | 566.4  |
| 32.5° | 491.2  | 478.2  | 471.6  | 462.4  | 460.3  |
| 35°   | 403.0  | 384.6  | 372.5  | 362.0  | 357.4  |
| 37.5° | 324.0  | 301.8  | 287.6  | 278.4  | 277.2  |
| 40°   | 256.3  | 235.8  | 225.7  | 220.7  | 219.9  |
| 42.5° | 209.0  | 200.2  | 197.7  | 197.7  | 197.7  |
| 45°   | 190.6  | 190.2  | 192.3  | 194.0  | 194.4  |
| 47.5° | 186.9  | 189.4  | 192.3  | 194.8  | 195.6  |
| 50°   | 186.9  | 189.4  | 191.5  | 194.0  | 194.8  |
| 52.5° | 186.0  | 188.1  | 189.0  | 190.6  | 191.5  |
| 55°   | 183.5  | 184.8  | 184.8  | 185.6  | 186.4  |
| 57.5° | 179.3  | 180.2  | 178.9  | 179.8  | 181.8  |
| 60°   | 175.2  | 176.0  | 173.9  | 176.0  | 177.2  |
| 62.5° | 170.6  | 171.0  | 170.1  | 171.8  | 171.8  |
| 65°   | 163.0  | 162.2  | 163.5  | 164.7  | 165.1  |
| 67.5° | 155.5  | 153.4  | 154.7  | 155.1  | 155.9  |
| 69°   | 149.7  | 148.4  | 148.8  | 149.7  | 150.5  |
| 70°   | 145.5  | 144.6  | 145.5  | 146.7  | 148.0  |
| 72.5° | 135.0  | 135.4  | 138.4  | 140.9  | 143.4  |
| 75°   | 125.4  | 128.3  | 132.1  | 137.5  | 140.5  |
| 77.5° | 113.7  | 115.8  | 118.7  | 124.6  | 130.0  |
| 80°   | 98.2   | 99.5   | 99.9   | 102.0  | 101.6  |
| 82.5° | 79.8   | 78.6   | 77.8   | 76.9   | 76.5   |
| 85°   | 57.3   | 56.9   | 53.5   | 51.0   | 51.0   |
| 87.5° | 34.3   | 32.6   | 30.9   | 28.8   | 27.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)