

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: NEO-RAY

Report Number: P243505

Luminaire Tested: **S124DR-H795D840-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243505  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DR-H795D840-X4F0-XX-UDD-A-W  
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

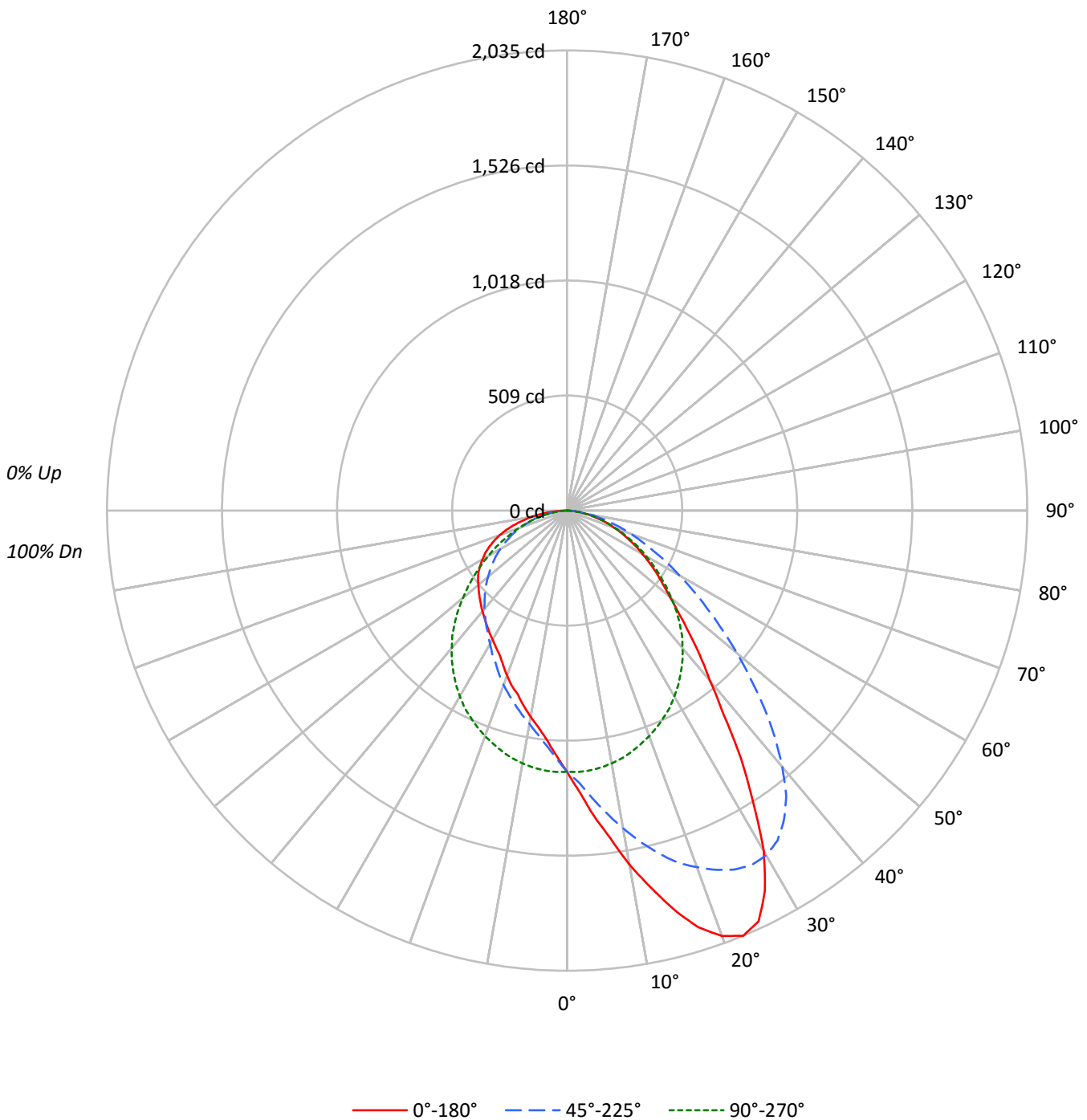
Lumens per Lamp: N/A  
Luminaire Lumens: 3311.9 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.22 / 1.45  
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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



TEST NUMBER: P243505

CATALOG NUMBER: S124DR-H795D840-X4F0-XX-UDD-A-W

### Luminous Intensity Polar Plot





TEST NUMBER: P243505

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 76  | 80  | 77  | 74  | 72  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 64  | 72  | 67  | 63  | 61  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |
| 5   | 78  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 53  | 48  | 46  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |
| 7   | 67  | 53  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 38  | 36  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  | 46  | 39  | 34  | 44  | 39  | 34  | 32  |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |
| 10  | 54  | 41  | 34  | 29  | 53  | 41  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 10267 | 10267 | 10267 |
| 5°  | 12082 | 10293 | 9086  |
| 10° | 14358 | 10246 | 8366  |
| 15° | 16816 | 10157 | 7748  |
| 20° | 18936 | 10038 | 7349  |
| 25° | 19651 | 9904  | 6917  |
| 30° | 17846 | 9735  | 6765  |
| 35° | 14559 | 9505  | 6722  |
| 40° | 11401 | 9206  | 6751  |
| 45° | 9541  | 8836  | 6875  |
| 50° | 8188  | 8319  | 7080  |
| 55° | 7482  | 7760  | 7423  |
| 60° | 6855  | 7182  | 7694  |
| 65° | 6287  | 6575  | 7993  |
| 70° | 5783  | 5931  | 8233  |
| 75° | 5148  | 5213  | 8225  |
| 80° | 4295  | 4269  | 8206  |
| 85° | 3274  | 3223  | 7690  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 112.4  | 3.4       |
| 10°-20°   | 348.2  | 10.5      |
| 20°-30°   | 559.4  | 16.9      |
| 30°-40°   | 639.5  | 19.3      |
| 40°-50°   | 588.6  | 17.8      |
| 50°-60°   | 481.5  | 14.5      |
| 60°-70°   | 343.1  | 10.4      |
| 70°-80°   | 188.6  | 5.7       |
| 80°-90°   | 50.7   | 1.5       |
| 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°-30°    | 1020.0 | 30.8      |
| 0°-40°    | 1659.5 | 50.1      |
| 0°-60°    | 2729.6 | 82.4      |
| 0°-90°    | 3311.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3311.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1155 | 1155 | 1155 | 1155 | 1155 |      |
| 5°  | 1354 | 1277 | 1154 | 1043 | 1018 | 136  |
| 15° | 1827 | 1570 | 1104 | 888  | 842  | 521  |
| 25° | 2004 | 1751 | 1010 | 747  | 705  | 899  |
| 35° | 1342 | 1672 | 876  | 623  | 620  | 834  |
| 45° | 759  | 1232 | 703  | 513  | 547  | 592  |
| 55° | 483  | 757  | 501  | 400  | 479  | 433  |
| 65° | 299  | 420  | 313  | 280  | 380  | 299  |
| 75° | 150  | 194  | 152  | 155  | 240  | 160  |
| 85° | 32   | 40   | 32   | 43   | 75   | 38   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P243505

CATALOG NUMBER: S124DR-H795D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 |
| 2.5°  | 1243.7 | 1239.9 | 1238.0 | 1235.7 | 1235.2 | 1232.8 | 1228.1 | 1221.5 | 1213.0 | 1204.1 | 1204.1 |
| 5°    | 1354.0 | 1353.0 | 1346.0 | 1346.4 | 1337.5 | 1327.6 | 1320.0 | 1310.6 | 1292.2 | 1276.7 | 1265.8 |
| 7.5°  | 1459.6 | 1469.5 | 1467.1 | 1459.6 | 1446.4 | 1432.3 | 1417.2 | 1404.0 | 1370.0 | 1351.2 | 1335.6 |
| 10°   | 1590.7 | 1594.4 | 1587.8 | 1577.0 | 1565.2 | 1537.9 | 1518.1 | 1495.9 | 1459.1 | 1427.1 | 1398.8 |
| 12.5° | 1705.7 | 1714.6 | 1702.9 | 1692.5 | 1664.7 | 1644.4 | 1624.6 | 1580.3 | 1541.6 | 1501.1 | 1460.1 |
| 15°   | 1827.3 | 1817.9 | 1824.0 | 1798.6 | 1778.8 | 1759.4 | 1709.0 | 1663.7 | 1619.9 | 1569.9 | 1527.0 |
| 17.5° | 1932.9 | 1932.9 | 1921.6 | 1905.1 | 1884.4 | 1848.1 | 1797.6 | 1747.6 | 1699.1 | 1633.6 | 1572.7 |
| 20°   | 2001.8 | 2006.9 | 1993.7 | 1976.3 | 1951.3 | 1913.6 | 1873.5 | 1819.3 | 1754.7 | 1678.3 | 1609.5 |
| 22.5° | 2034.8 | 2035.7 | 2031.0 | 2016.4 | 1996.1 | 1964.0 | 1923.0 | 1870.2 | 1801.9 | 1719.8 | 1647.7 |
| 25°   | 2003.6 | 2008.8 | 2007.4 | 2006.5 | 1996.1 | 1977.7 | 1944.7 | 1895.7 | 1833.5 | 1751.4 | 1673.6 |
| 27.5° | 1894.3 | 1907.0 | 1917.8 | 1922.6 | 1933.9 | 1934.8 | 1924.9 | 1895.2 | 1844.3 | 1767.0 | 1680.2 |
| 30°   | 1738.7 | 1732.1 | 1761.3 | 1775.9 | 1814.6 | 1837.7 | 1854.2 | 1852.3 | 1823.1 | 1760.4 | 1677.9 |
| 32.5° | 1531.3 | 1549.2 | 1569.9 | 1604.3 | 1650.1 | 1703.8 | 1744.3 | 1774.5 | 1771.7 | 1730.7 | 1661.8 |
| 35°   | 1341.7 | 1341.7 | 1368.1 | 1410.6 | 1459.1 | 1523.7 | 1591.6 | 1647.7 | 1682.1 | 1671.7 | 1623.2 |
| 37.5° | 1136.2 | 1148.9 | 1179.1 | 1212.1 | 1271.5 | 1333.7 | 1423.3 | 1497.8 | 1569.9 | 1591.6 | 1566.6 |
| 40°   | 982.5  | 988.2  | 1020.2 | 1048.0 | 1108.8 | 1173.4 | 1248.4 | 1343.6 | 1426.6 | 1479.9 | 1483.2 |
| 42.5° | 868.4  | 867.9  | 881.1  | 906.1  | 955.1  | 1012.7 | 1093.8 | 1187.1 | 1284.2 | 1359.6 | 1395.0 |
| 45°   | 759.0  | 758.1  | 771.8  | 797.2  | 832.1  | 883.0  | 953.3  | 1046.6 | 1146.1 | 1231.9 | 1287.5 |
| 47.5° | 666.6  | 675.1  | 681.2  | 701.0  | 729.8  | 773.2  | 833.5  | 908.0  | 1003.7 | 1099.9 | 1174.8 |
| 50°   | 592.1  | 595.9  | 609.1  | 618.5  | 650.6  | 680.8  | 729.3  | 796.3  | 878.3  | 979.2  | 1060.3 |
| 52.5° | 532.7  | 535.1  | 543.1  | 555.4  | 573.7  | 600.2  | 638.8  | 700.6  | 774.6  | 862.3  | 946.2  |
| 55°   | 482.8  | 481.3  | 486.5  | 494.5  | 510.6  | 532.7  | 561.0  | 608.2  | 672.8  | 757.1  | 834.5  |
| 57.5° | 433.7  | 433.7  | 438.4  | 444.1  | 453.1  | 471.4  | 499.3  | 536.5  | 588.4  | 663.3  | 731.7  |
| 60°   | 385.6  | 388.9  | 390.8  | 396.5  | 404.0  | 417.7  | 438.4  | 467.7  | 511.5  | 572.8  | 640.7  |
| 62.5° | 343.2  | 343.2  | 346.5  | 348.4  | 358.3  | 368.2  | 383.3  | 408.3  | 442.7  | 497.4  | 550.2  |
| 65°   | 298.9  | 301.7  | 301.7  | 305.5  | 314.0  | 321.5  | 333.3  | 352.2  | 380.5  | 419.6  | 469.1  |
| 67.5° | 261.2  | 261.2  | 263.5  | 265.4  | 270.1  | 275.3  | 285.7  | 300.3  | 324.4  | 355.5  | 400.3  |
| 70°   | 222.5  | 223.9  | 223.0  | 225.4  | 228.2  | 233.4  | 240.9  | 253.2  | 270.6  | 297.5  | 330.5  |
| 72.5° | 187.6  | 185.7  | 186.7  | 189.0  | 190.5  | 193.8  | 198.5  | 207.9  | 222.1  | 243.7  | 267.8  |
| 75°   | 149.9  | 149.0  | 152.3  | 151.3  | 153.7  | 156.5  | 160.8  | 167.8  | 178.7  | 193.8  | 212.2  |
| 77.5° | 116.9  | 115.5  | 116.9  | 117.9  | 118.8  | 121.2  | 124.5  | 128.7  | 136.2  | 146.1  | 162.6  |
| 80°   | 83.9   | 83.4   | 84.4   | 85.3   | 85.8   | 89.6   | 90.5   | 94.8   | 98.1   | 105.6  | 113.6  |
| 82.5° | 55.6   | 56.6   | 57.0   | 58.0   | 57.5   | 59.4   | 60.3   | 63.2   | 66.0   | 69.8   | 75.9   |
| 85°   | 32.1   | 30.6   | 32.1   | 32.1   | 32.1   | 34.4   | 33.9   | 35.8   | 37.7   | 39.6   | 43.8   |
| 87.5° | 11.3   | 11.3   | 11.8   | 12.3   | 12.3   | 13.7   | 13.2   | 14.1   | 16.0   | 16.0   | 17.4   |
| 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°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 |
| 2.5°  | 1201.2 | 1196.1 | 1192.3 | 1181.4 | 1174.8 | 1168.7 | 1163.1 | 1156.9 | 1150.3 | 1141.8 | 1136.7 |
| 5°    | 1254.5 | 1243.2 | 1226.7 | 1211.6 | 1194.6 | 1179.6 | 1167.3 | 1153.6 | 1138.5 | 1123.0 | 1109.3 |
| 7.5°  | 1313.4 | 1292.2 | 1266.8 | 1239.0 | 1212.6 | 1190.4 | 1167.3 | 1145.6 | 1124.4 | 1103.7 | 1084.3 |
| 10°   | 1372.4 | 1335.6 | 1302.1 | 1263.9 | 1229.1 | 1195.6 | 1165.4 | 1135.2 | 1108.8 | 1081.5 | 1057.0 |
| 12.5° | 1427.1 | 1382.8 | 1333.7 | 1286.1 | 1239.4 | 1196.1 | 1158.8 | 1122.0 | 1088.1 | 1055.6 | 1026.8 |
| 15°   | 1469.0 | 1413.4 | 1355.4 | 1298.8 | 1245.1 | 1199.8 | 1151.3 | 1103.7 | 1068.3 | 1028.7 | 997.1  |
| 17.5° | 1517.1 | 1451.1 | 1393.6 | 1325.7 | 1258.8 | 1185.7 | 1134.3 | 1082.4 | 1040.0 | 1001.8 | 970.2  |
| 20°   | 1549.2 | 1476.6 | 1393.6 | 1316.7 | 1247.9 | 1182.4 | 1120.6 | 1061.2 | 1016.4 | 972.1  | 933.9  |
| 22.5° | 1574.6 | 1499.7 | 1408.2 | 1328.1 | 1241.8 | 1162.6 | 1095.6 | 1037.2 | 984.4  | 942.4  | 906.1  |
| 25°   | 1587.8 | 1496.4 | 1409.2 | 1312.0 | 1225.8 | 1149.9 | 1074.4 | 1009.8 | 956.6  | 909.9  | 878.8  |
| 27.5° | 1588.3 | 1494.5 | 1391.2 | 1295.1 | 1202.7 | 1120.6 | 1046.1 | 982.5  | 922.6  | 877.8  | 840.6  |
| 30°   | 1585.9 | 1482.2 | 1373.3 | 1268.2 | 1176.3 | 1092.3 | 1014.6 | 948.5  | 893.9  | 846.2  | 810.9  |
| 32.5° | 1570.9 | 1465.3 | 1346.4 | 1236.1 | 1136.2 | 1051.8 | 980.1  | 914.6  | 856.1  | 812.8  | 775.5  |
| 35°   | 1536.9 | 1428.0 | 1308.7 | 1195.1 | 1100.4 | 1012.7 | 941.9  | 875.9  | 823.6  | 776.5  | 738.3  |
| 37.5° | 1493.5 | 1391.7 | 1270.5 | 1151.7 | 1049.4 | 966.5  | 900.0  | 837.8  | 783.1  | 739.7  | 701.5  |
| 40°   | 1438.9 | 1343.1 | 1223.9 | 1100.4 | 998.1  | 914.1  | 851.4  | 793.4  | 746.8  | 702.5  | 665.2  |
| 42.5° | 1363.9 | 1290.3 | 1167.8 | 1047.6 | 940.5  | 861.3  | 800.5  | 752.4  | 704.3  | 664.3  | 627.0  |
| 45°   | 1283.7 | 1216.8 | 1107.9 | 988.6  | 885.8  | 804.3  | 747.2  | 702.9  | 661.9  | 621.4  | 591.2  |
| 47.5° | 1195.1 | 1140.4 | 1039.5 | 923.1  | 821.7  | 749.6  | 693.5  | 653.9  | 616.2  | 585.1  | 554.9  |
| 50°   | 1089.5 | 1060.8 | 966.5  | 860.9  | 762.3  | 688.3  | 642.1  | 601.6  | 573.7  | 543.6  | 515.3  |
| 52.5° | 991.5  | 968.3  | 891.5  | 787.8  | 698.2  | 633.2  | 583.7  | 551.6  | 524.2  | 502.1  | 479.5  |
| 55°   | 884.9  | 873.1  | 808.1  | 718.5  | 637.4  | 572.3  | 529.9  | 500.7  | 479.0  | 458.2  | 441.7  |
| 57.5° | 786.8  | 785.9  | 728.4  | 651.5  | 572.3  | 517.2  | 476.6  | 452.6  | 433.7  | 419.1  | 405.0  |
| 60°   | 686.4  | 694.4  | 647.3  | 577.0  | 514.3  | 462.5  | 425.7  | 404.0  | 391.3  | 377.6  | 365.8  |
| 62.5° | 595.4  | 607.7  | 564.8  | 509.6  | 447.9  | 405.4  | 377.2  | 360.7  | 346.5  | 336.6  | 327.7  |
| 65°   | 508.2  | 523.8  | 488.9  | 439.4  | 392.2  | 352.2  | 328.1  | 312.6  | 301.7  | 296.1  | 289.9  |
| 67.5° | 431.4  | 439.9  | 416.3  | 377.6  | 338.5  | 303.6  | 283.8  | 270.1  | 260.7  | 258.4  | 251.3  |
| 70°   | 354.5  | 364.4  | 347.9  | 312.6  | 282.4  | 256.9  | 239.0  | 228.2  | 222.5  | 219.2  | 214.5  |
| 72.5° | 292.8  | 297.0  | 280.5  | 256.0  | 232.0  | 210.7  | 197.5  | 189.5  | 182.9  | 181.5  | 179.1  |
| 75°   | 229.1  | 235.3  | 222.1  | 203.2  | 183.4  | 168.3  | 158.4  | 151.8  | 148.5  | 146.1  | 146.1  |
| 77.5° | 173.0  | 178.2  | 170.7  | 154.2  | 142.4  | 129.2  | 122.6  | 116.4  | 115.0  | 112.7  | 113.6  |
| 80°   | 123.0  | 125.4  | 121.2  | 109.8  | 99.5   | 92.4   | 86.7   | 83.4   | 83.0   | 81.1   | 83.0   |
| 82.5° | 81.6   | 82.0   | 77.3   | 72.1   | 64.1   | 60.3   | 56.6   | 55.2   | 54.7   | 54.7   | 53.7   |
| 85°   | 45.3   | 46.2   | 42.9   | 39.6   | 36.8   | 33.5   | 32.5   | 31.6   | 30.6   | 32.1   | 33.0   |
| 87.5° | 17.4   | 17.9   | 17.4   | 16.0   | 15.1   | 14.1   | 13.7   | 14.6   | 13.2   | 14.1   | 14.6   |
| 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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CATALOG NUMBER: S124DR-H795D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 | 1155.0 |
| 2.5°  | 1128.6 | 1124.9 | 1119.2 | 1109.8 | 1103.2 | 1096.1 | 1093.3 | 1094.2 | 1091.4 | 1087.6 | 1088.6 |
| 5°    | 1098.9 | 1088.1 | 1078.7 | 1065.5 | 1053.2 | 1042.8 | 1039.5 | 1035.3 | 1031.5 | 1029.2 | 1026.8 |
| 7.5°  | 1067.4 | 1052.3 | 1038.1 | 1024.9 | 1010.8 | 997.6  | 992.4  | 988.6  | 986.7  | 980.1  | 977.3  |
| 10°   | 1037.2 | 1019.7 | 1002.8 | 987.2  | 972.6  | 958.0  | 952.8  | 948.1  | 941.5  | 938.6  | 935.3  |
| 12.5° | 1005.1 | 987.7  | 969.3  | 950.4  | 935.8  | 924.0  | 915.1  | 911.8  | 905.2  | 902.3  | 900.5  |
| 15°   | 974.0  | 952.8  | 938.2  | 923.6  | 901.4  | 888.2  | 884.4  | 872.6  | 868.9  | 863.2  | 859.4  |
| 17.5° | 942.9  | 923.1  | 901.4  | 884.4  | 870.8  | 854.3  | 845.3  | 840.1  | 833.0  | 827.9  | 820.8  |
| 20°   | 912.2  | 889.1  | 872.2  | 851.0  | 835.9  | 820.8  | 809.5  | 804.8  | 798.6  | 791.6  | 781.7  |
| 22.5° | 882.5  | 857.1  | 840.6  | 820.8  | 801.9  | 784.5  | 775.1  | 768.5  | 756.2  | 754.8  | 745.8  |
| 25°   | 847.7  | 825.0  | 803.3  | 782.6  | 764.2  | 746.8  | 740.6  | 730.3  | 726.0  | 717.5  | 716.1  |
| 27.5° | 814.7  | 790.6  | 767.0  | 744.4  | 728.4  | 716.1  | 705.3  | 698.7  | 694.4  | 687.8  | 688.3  |
| 30°   | 780.2  | 753.8  | 731.7  | 710.9  | 693.5  | 681.7  | 674.6  | 671.3  | 665.2  | 664.3  | 661.0  |
| 32.5° | 743.5  | 719.4  | 696.3  | 677.9  | 660.0  | 649.7  | 646.4  | 643.1  | 639.3  | 639.8  | 638.8  |
| 35°   | 706.7  | 685.5  | 661.0  | 644.0  | 629.4  | 623.3  | 618.1  | 617.1  | 615.7  | 616.7  | 616.7  |
| 37.5° | 670.9  | 647.8  | 627.5  | 611.9  | 603.5  | 595.0  | 592.6  | 592.1  | 592.6  | 593.6  | 595.9  |
| 40°   | 636.0  | 614.8  | 595.0  | 582.2  | 572.8  | 569.0  | 565.7  | 567.1  | 569.0  | 572.3  | 575.2  |
| 42.5° | 601.1  | 580.8  | 564.3  | 551.6  | 542.6  | 540.7  | 541.2  | 544.0  | 544.5  | 549.2  | 554.4  |
| 45°   | 564.3  | 546.9  | 531.3  | 521.4  | 515.8  | 513.4  | 514.3  | 517.2  | 520.5  | 527.1  | 533.7  |
| 47.5° | 530.4  | 514.8  | 501.1  | 491.2  | 487.0  | 486.1  | 487.9  | 491.7  | 499.3  | 505.9  | 513.4  |
| 50°   | 496.0  | 481.8  | 469.1  | 460.1  | 459.7  | 456.4  | 460.6  | 465.3  | 474.3  | 483.2  | 494.5  |
| 52.5° | 462.0  | 448.3  | 437.5  | 430.4  | 428.5  | 428.5  | 433.7  | 442.2  | 450.2  | 462.0  | 472.4  |
| 55°   | 426.7  | 414.4  | 404.0  | 401.7  | 398.8  | 400.3  | 405.9  | 414.4  | 425.7  | 438.9  | 450.2  |
| 57.5° | 390.4  | 380.0  | 372.4  | 369.1  | 367.7  | 372.4  | 379.0  | 388.0  | 402.6  | 415.8  | 428.1  |
| 60°   | 355.9  | 347.0  | 339.0  | 338.0  | 337.1  | 343.2  | 351.2  | 360.7  | 375.3  | 388.5  | 403.6  |
| 62.5° | 319.2  | 312.1  | 306.9  | 305.5  | 305.5  | 311.6  | 320.6  | 332.8  | 346.5  | 360.7  | 376.7  |
| 65°   | 281.9  | 275.8  | 274.4  | 272.5  | 276.7  | 280.5  | 289.5  | 301.3  | 315.9  | 331.4  | 348.4  |
| 67.5° | 247.5  | 243.7  | 240.9  | 240.9  | 244.2  | 251.3  | 259.3  | 271.1  | 286.2  | 302.7  | 317.8  |
| 70°   | 213.1  | 209.3  | 207.0  | 209.3  | 211.2  | 219.7  | 228.2  | 239.5  | 253.6  | 269.7  | 285.7  |
| 72.5° | 177.3  | 177.7  | 178.2  | 177.7  | 179.6  | 187.6  | 196.1  | 207.0  | 220.6  | 236.2  | 250.8  |
| 75°   | 145.7  | 143.3  | 143.8  | 144.7  | 150.9  | 155.1  | 163.6  | 174.0  | 188.6  | 202.7  | 215.0  |
| 77.5° | 113.1  | 112.2  | 114.6  | 114.6  | 120.2  | 125.4  | 132.5  | 142.8  | 155.6  | 168.3  | 178.2  |
| 80°   | 83.0   | 83.4   | 85.3   | 85.8   | 90.5   | 96.2   | 103.7  | 110.8  | 122.1  | 131.1  | 140.5  |
| 82.5° | 56.1   | 57.0   | 59.4   | 62.7   | 64.6   | 67.9   | 74.5   | 82.0   | 90.0   | 99.5   | 105.1  |
| 85°   | 32.5   | 33.9   | 35.8   | 38.2   | 40.1   | 43.4   | 48.1   | 54.2   | 59.9   | 65.1   | 69.8   |
| 87.5° | 16.0   | 16.0   | 17.4   | 18.4   | 19.8   | 21.7   | 25.0   | 27.3   | 31.1   | 34.9   | 36.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





TEST NUMBER: P243505

CATALOG NUMBER: S124DR-H795D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1155.0 | 1155.0 | 1155.0 | 1155.0 |
| 2.5°  | 1086.7 | 1086.2 | 1084.3 | 1085.3 |
| 5°    | 1025.4 | 1020.7 | 1020.2 | 1018.3 |
| 7.5°  | 972.6  | 971.2  | 971.2  | 967.4  |
| 10°   | 932.0  | 927.8  | 928.7  | 926.9  |
| 12.5° | 893.4  | 891.0  | 888.2  | 885.4  |
| 15°   | 850.0  | 850.0  | 850.0  | 842.0  |
| 17.5° | 816.1  | 815.6  | 813.2  | 812.8  |
| 20°   | 780.7  | 778.8  | 772.7  | 776.9  |
| 22.5° | 744.9  | 743.5  | 738.3  | 739.2  |
| 25°   | 711.4  | 710.0  | 709.1  | 705.3  |
| 27.5° | 682.7  | 683.1  | 684.1  | 681.7  |
| 30°   | 661.0  | 659.6  | 661.4  | 659.1  |
| 32.5° | 640.7  | 640.7  | 638.8  | 639.3  |
| 35°   | 617.6  | 619.5  | 620.0  | 619.5  |
| 37.5° | 597.3  | 599.7  | 601.6  | 599.7  |
| 40°   | 578.5  | 580.3  | 582.2  | 581.8  |
| 42.5° | 558.7  | 562.0  | 563.4  | 564.8  |
| 45°   | 539.8  | 544.0  | 546.4  | 546.9  |
| 47.5° | 520.5  | 525.7  | 530.4  | 529.9  |
| 50°   | 501.6  | 508.2  | 512.5  | 512.0  |
| 52.5° | 482.8  | 489.4  | 494.5  | 496.9  |
| 55°   | 461.5  | 470.0  | 474.7  | 479.0  |
| 57.5° | 440.3  | 449.8  | 454.5  | 456.4  |
| 60°   | 416.8  | 425.2  | 431.4  | 432.8  |
| 62.5° | 390.4  | 399.3  | 407.3  | 409.2  |
| 65°   | 363.0  | 372.9  | 379.0  | 380.0  |
| 67.5° | 331.4  | 340.9  | 347.0  | 349.8  |
| 70°   | 298.9  | 306.0  | 312.6  | 316.8  |
| 72.5° | 262.6  | 271.1  | 277.2  | 280.0  |
| 75°   | 224.9  | 234.3  | 237.6  | 239.5  |
| 77.5° | 185.7  | 191.4  | 196.6  | 197.1  |
| 80°   | 146.6  | 153.7  | 155.6  | 160.3  |
| 82.5° | 108.0  | 114.6  | 113.1  | 115.0  |
| 85°   | 71.2   | 73.5   | 75.0   | 75.4   |
| 87.5° | 37.7   | 39.1   | 40.1   | 40.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)