

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: P242390

Luminaire Tested: **S122RDR-S865D927-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P242390  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S865D927-X4F0-XX-UDD-A-W  
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2512.2 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')  
CIE Type: Direct

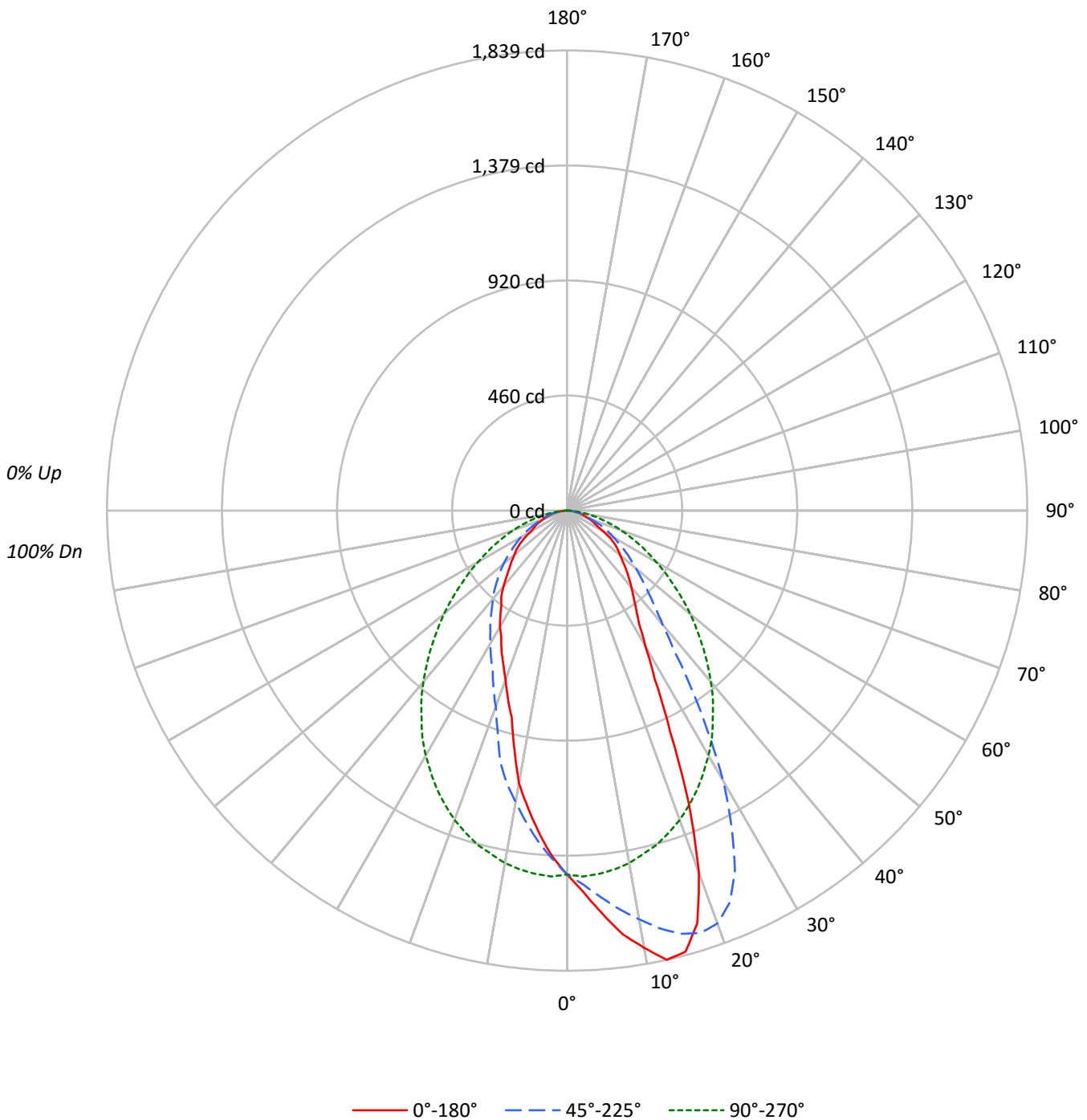
Input Watts (W): 34.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P242390

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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   | 111 | 106 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |
| 4   | 87  | 77  | 69  | 63  | 85  | 76  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 59  |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 54  | 49  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 39  |
| 9   | 62  | 50  | 43  | 38  | 61  | 50  | 42  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 47  | 41  | 37  | 35  |
| 10  | 59  | 47  | 39  | 35  | 58  | 46  | 39  | 35  | 45  | 39  | 34  | 44  | 38  | 34  | 44  | 38  | 34  | 33  |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 27692 | 27692 | 27692 |
| 5°  | 30927 | 27864 | 24707 |
| 10° | 34314 | 27670 | 21417 |
| 15° | 36000 | 27264 | 16874 |
| 20° | 31210 | 26663 | 14601 |
| 25° | 20468 | 25840 | 13037 |
| 30° | 13777 | 24843 | 11800 |
| 35° | 11159 | 23585 | 10643 |
| 40° | 9924  | 22219 | 9847  |
| 45° | 8981  | 20615 | 8790  |
| 50° | 8173  | 19024 | 8143  |
| 55° | 7684  | 17262 | 7582  |
| 60° | 6427  | 15646 | 6351  |
| 65° | 5418  | 14206 | 6148  |
| 70° | 5007  | 12687 | 5798  |
| 75° | 4681  | 11039 | 5350  |
| 80° | 4322  | 9082  | 4761  |
| 85° | 3978  | 7168  | 4196  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 137.9  | 5.5       |
| 10°-20°   | 384.9  | 15.3      |
| 20°-30°   | 495.3  | 19.7      |
| 30°-40°   | 469.9  | 18.7      |
| 40°-50°   | 402.7  | 16.0      |
| 50°-60°   | 306.7  | 12.2      |
| 60°-70°   | 193.5  | 7.7       |
| 70°-80°   | 96.5   | 3.8       |
| 80°-90°   | 24.8   | 1.0       |
| 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°    | 1018.1 | 40.5      |
| 0°-40°    | 1488.0 | 59.2      |
| 0°-60°    | 2197.4 | 87.5      |
| 0°-90°    | 2512.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2512.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1454 | 1454 | 1454 | 1454 | 1454 |      |
| 5°  | 1618 | 1551 | 1457 | 1328 | 1292 | 159  |
| 15° | 1826 | 1751 | 1383 | 1035 | 856  | 496  |
| 25° | 974  | 1587 | 1230 | 704  | 620  | 460  |
| 35° | 480  | 862  | 1014 | 534  | 458  | 305  |
| 45° | 333  | 455  | 765  | 394  | 326  | 258  |
| 55° | 231  | 283  | 520  | 267  | 228  | 204  |
| 65° | 120  | 162  | 315  | 161  | 136  | 122  |
| 75° | 64   | 71   | 150  | 82   | 73   | 67   |
| 85° | 18   | 19   | 33   | 19   | 19   | 20   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 |
| 2.5°  | 1527.5 | 1529.1 | 1530.6 | 1527.0 | 1527.0 | 1524.0 | 1517.4 | 1512.4 | 1498.2 | 1496.2 | 1496.2 |
| 5°    | 1617.5 | 1616.5 | 1618.5 | 1611.9 | 1602.8 | 1600.8 | 1591.2 | 1578.6 | 1565.4 | 1550.8 | 1547.8 |
| 7.5°  | 1708.4 | 1702.3 | 1699.8 | 1702.8 | 1693.2 | 1680.1 | 1663.9 | 1648.8 | 1626.0 | 1607.4 | 1595.7 |
| 10°   | 1774.1 | 1790.7 | 1780.6 | 1762.9 | 1766.5 | 1742.7 | 1730.1 | 1708.4 | 1690.2 | 1658.4 | 1651.3 |
| 12.5° | 1838.7 | 1842.8 | 1841.2 | 1833.2 | 1826.6 | 1811.9 | 1793.8 | 1775.6 | 1738.2 | 1710.4 | 1681.1 |
| 15°   | 1825.6 | 1835.2 | 1837.7 | 1834.7 | 1837.2 | 1836.2 | 1827.1 | 1811.4 | 1782.1 | 1750.8 | 1723.5 |
| 17.5° | 1728.6 | 1739.7 | 1748.8 | 1756.9 | 1769.5 | 1794.3 | 1801.8 | 1804.9 | 1792.7 | 1770.5 | 1747.8 |
| 20°   | 1539.7 | 1528.6 | 1575.0 | 1598.8 | 1619.0 | 1669.5 | 1712.9 | 1729.6 | 1756.4 | 1755.9 | 1750.8 |
| 22.5° | 1271.9 | 1278.0 | 1321.4 | 1350.7 | 1419.4 | 1470.0 | 1521.0 | 1595.2 | 1653.3 | 1696.3 | 1722.5 |
| 25°   | 973.9  | 993.1  | 1037.1 | 1075.4 | 1141.1 | 1235.1 | 1320.4 | 1419.4 | 1512.9 | 1586.6 | 1656.9 |
| 27.5° | 757.7  | 760.2  | 800.1  | 839.0  | 879.5  | 960.8  | 1074.9 | 1193.6 | 1327.0 | 1423.0 | 1544.2 |
| 30°   | 626.4  | 623.3  | 638.0  | 659.7  | 693.1  | 752.7  | 833.5  | 949.7  | 1082.5 | 1248.2 | 1395.7 |
| 32.5° | 533.4  | 534.4  | 544.5  | 559.2  | 585.5  | 620.8  | 669.8  | 758.7  | 882.5  | 1044.6 | 1224.0 |
| 35°   | 479.9  | 479.4  | 487.5  | 499.1  | 510.7  | 536.5  | 574.3  | 623.8  | 710.2  | 862.3  | 1039.1 |
| 37.5° | 435.4  | 438.0  | 441.5  | 449.1  | 463.2  | 478.4  | 502.1  | 537.0  | 602.6  | 697.1  | 855.7  |
| 40°   | 399.1  | 400.1  | 405.6  | 411.7  | 419.3  | 430.4  | 449.1  | 475.8  | 520.8  | 592.5  | 701.1  |
| 42.5° | 365.7  | 366.7  | 370.3  | 375.8  | 381.4  | 392.5  | 407.1  | 429.4  | 463.7  | 515.7  | 600.6  |
| 45°   | 333.4  | 333.4  | 336.9  | 339.5  | 346.0  | 356.1  | 368.8  | 387.9  | 413.2  | 454.6  | 514.2  |
| 47.5° | 302.1  | 302.1  | 304.6  | 309.1  | 313.7  | 321.8  | 334.9  | 351.1  | 369.3  | 403.1  | 456.1  |
| 50°   | 275.8  | 276.3  | 277.8  | 281.4  | 283.9  | 291.0  | 300.6  | 314.2  | 333.4  | 358.1  | 400.6  |
| 52.5° | 254.6  | 254.1  | 256.1  | 257.1  | 258.6  | 263.2  | 269.7  | 281.4  | 298.0  | 318.7  | 352.1  |
| 55°   | 231.4  | 229.3  | 232.4  | 234.9  | 236.4  | 238.4  | 242.5  | 250.0  | 264.7  | 282.9  | 309.1  |
| 57.5° | 204.1  | 203.1  | 204.6  | 207.1  | 211.7  | 216.7  | 219.2  | 224.3  | 231.9  | 246.0  | 273.8  |
| 60°   | 168.7  | 168.7  | 173.3  | 174.8  | 180.3  | 187.4  | 194.5  | 198.5  | 206.1  | 214.7  | 233.9  |
| 62.5° | 137.4  | 137.9  | 139.4  | 140.9  | 143.5  | 152.6  | 163.2  | 173.3  | 180.3  | 188.4  | 199.5  |
| 65°   | 120.2  | 121.2  | 121.2  | 122.2  | 124.3  | 126.3  | 130.3  | 137.4  | 150.0  | 161.6  | 171.2  |
| 67.5° | 105.1  | 105.1  | 105.6  | 106.6  | 107.1  | 109.6  | 111.1  | 114.7  | 117.2  | 130.3  | 143.5  |
| 70°   | 89.9   | 91.4   | 90.9   | 91.9   | 92.4   | 93.5   | 95.5   | 97.0   | 101.5  | 104.1  | 111.1  |
| 72.5° | 75.8   | 76.8   | 76.8   | 77.3   | 78.8   | 78.8   | 80.3   | 81.8   | 84.4   | 86.4   | 89.4   |
| 75°   | 63.6   | 63.1   | 63.6   | 64.7   | 65.2   | 65.7   | 65.7   | 67.7   | 69.2   | 71.2   | 73.8   |
| 77.5° | 51.5   | 52.0   | 52.0   | 52.0   | 52.0   | 53.0   | 53.0   | 54.1   | 55.6   | 56.6   | 58.1   |
| 80°   | 39.4   | 39.9   | 39.4   | 39.9   | 40.4   | 40.9   | 40.4   | 40.9   | 42.4   | 43.4   | 43.4   |
| 82.5° | 28.3   | 28.3   | 28.8   | 28.8   | 28.8   | 28.8   | 29.8   | 29.8   | 30.8   | 30.3   | 30.8   |
| 85°   | 18.2   | 17.7   | 17.7   | 17.7   | 18.2   | 18.7   | 18.2   | 18.2   | 18.7   | 18.7   | 18.7   |
| 87.5° | 8.1    | 8.6    | 8.6    | 8.6    | 8.6    | 8.6    | 8.6    | 9.1    | 8.6    | 9.1    | 8.6    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 |
| 2.5°  | 1497.2 | 1493.2 | 1489.7 | 1480.6 | 1476.0 | 1465.9 | 1464.4 | 1463.9 | 1450.8 | 1438.1 | 1434.6 |
| 5°    | 1539.7 | 1531.6 | 1519.5 | 1505.3 | 1490.7 | 1475.5 | 1465.4 | 1457.3 | 1437.1 | 1417.9 | 1406.8 |
| 7.5°  | 1581.6 | 1566.9 | 1547.8 | 1523.5 | 1502.8 | 1478.5 | 1461.9 | 1446.7 | 1418.9 | 1393.7 | 1377.0 |
| 10°   | 1629.6 | 1601.3 | 1573.5 | 1536.6 | 1507.8 | 1479.6 | 1453.3 | 1430.6 | 1398.2 | 1361.9 | 1336.1 |
| 12.5° | 1659.4 | 1627.6 | 1586.6 | 1550.8 | 1511.4 | 1473.5 | 1436.1 | 1405.3 | 1365.9 | 1328.0 | 1296.2 |
| 15°   | 1685.7 | 1652.3 | 1605.8 | 1554.3 | 1506.3 | 1459.4 | 1418.9 | 1382.6 | 1333.1 | 1288.1 | 1250.7 |
| 17.5° | 1709.9 | 1663.9 | 1615.9 | 1556.3 | 1503.3 | 1446.2 | 1395.2 | 1349.7 | 1295.7 | 1242.6 | 1200.2 |
| 20°   | 1720.5 | 1675.0 | 1617.5 | 1557.9 | 1492.2 | 1422.0 | 1365.9 | 1315.4 | 1256.3 | 1197.2 | 1146.7 |
| 22.5° | 1713.9 | 1681.1 | 1615.4 | 1541.2 | 1473.5 | 1399.2 | 1334.1 | 1273.5 | 1206.3 | 1145.7 | 1085.0 |
| 25°   | 1679.6 | 1667.5 | 1606.9 | 1529.1 | 1452.3 | 1366.9 | 1293.7 | 1229.5 | 1154.8 | 1090.1 | 1026.4 |
| 27.5° | 1616.5 | 1634.1 | 1591.2 | 1506.8 | 1424.0 | 1332.1 | 1252.2 | 1180.0 | 1103.7 | 1031.5 | 967.9  |
| 30°   | 1516.4 | 1576.5 | 1560.4 | 1483.6 | 1388.1 | 1298.2 | 1205.8 | 1129.5 | 1046.7 | 971.9  | 909.3  |
| 32.5° | 1379.5 | 1488.7 | 1512.4 | 1451.3 | 1351.8 | 1250.7 | 1152.7 | 1077.0 | 989.6  | 909.8  | 849.1  |
| 35°   | 1232.5 | 1381.1 | 1449.2 | 1408.3 | 1309.3 | 1202.7 | 1102.7 | 1014.3 | 927.4  | 849.6  | 789.0  |
| 37.5° | 1058.3 | 1256.3 | 1361.4 | 1356.8 | 1262.3 | 1153.7 | 1045.1 | 957.7  | 868.3  | 791.6  | 728.4  |
| 40°   | 889.6  | 1108.8 | 1256.8 | 1289.6 | 1212.8 | 1093.1 | 983.0  | 893.6  | 806.7  | 731.9  | 656.7  |
| 42.5° | 738.0  | 956.2  | 1146.7 | 1209.8 | 1152.7 | 1034.0 | 923.4  | 828.9  | 745.1  | 675.4  | 598.1  |
| 45°   | 621.3  | 812.3  | 1012.8 | 1114.8 | 1081.0 | 970.9  | 854.2  | 765.3  | 686.0  | 624.9  | 551.1  |
| 47.5° | 538.0  | 676.9  | 878.4  | 1011.8 | 1007.8 | 903.2  | 787.0  | 701.6  | 626.9  | 570.3  | 507.7  |
| 50°   | 468.8  | 586.0  | 750.1  | 906.7  | 919.9  | 835.5  | 726.4  | 642.0  | 573.3  | 513.2  | 465.2  |
| 52.5° | 406.6  | 498.1  | 641.5  | 790.0  | 833.5  | 763.3  | 658.2  | 581.9  | 515.7  | 461.7  | 422.3  |
| 55°   | 354.1  | 428.9  | 541.0  | 681.4  | 738.0  | 686.5  | 592.5  | 519.8  | 465.7  | 419.3  | 383.9  |
| 57.5° | 308.1  | 366.7  | 460.2  | 577.9  | 642.0  | 607.2  | 526.9  | 466.8  | 418.8  | 375.3  | 347.0  |
| 60°   | 265.2  | 311.2  | 387.4  | 481.9  | 554.6  | 531.9  | 465.7  | 410.7  | 371.3  | 334.9  | 308.6  |
| 62.5° | 224.8  | 262.7  | 325.3  | 397.5  | 462.7  | 456.6  | 405.6  | 361.7  | 328.3  | 296.0  | 274.8  |
| 65°   | 187.4  | 216.2  | 267.2  | 327.3  | 380.9  | 385.4  | 346.5  | 315.2  | 284.4  | 258.1  | 238.4  |
| 67.5° | 155.1  | 174.8  | 213.2  | 266.2  | 307.1  | 321.3  | 295.0  | 269.7  | 244.5  | 223.3  | 205.6  |
| 70°   | 125.8  | 140.9  | 167.2  | 208.1  | 245.0  | 260.1  | 246.5  | 227.8  | 206.6  | 189.9  | 175.3  |
| 72.5° | 96.0   | 110.6  | 128.3  | 155.6  | 185.9  | 202.6  | 200.0  | 187.9  | 171.7  | 158.6  | 145.0  |
| 75°   | 76.8   | 81.3   | 94.5   | 114.7  | 139.4  | 153.6  | 157.1  | 150.0  | 136.4  | 125.8  | 117.7  |
| 77.5° | 59.6   | 62.6   | 69.7   | 81.8   | 99.0   | 111.6  | 117.2  | 116.2  | 106.1  | 99.0   | 91.4   |
| 80°   | 45.5   | 47.0   | 50.0   | 54.6   | 66.7   | 79.3   | 82.8   | 82.8   | 76.3   | 73.8   | 66.2   |
| 82.5° | 31.8   | 32.8   | 34.3   | 36.4   | 40.4   | 51.0   | 55.1   | 56.1   | 52.5   | 49.0   | 43.4   |
| 85°   | 19.7   | 19.2   | 20.2   | 21.7   | 22.7   | 25.8   | 31.8   | 32.8   | 31.8   | 27.8   | 26.3   |
| 87.5° | 8.6    | 9.1    | 9.1    | 8.6    | 9.1    | 9.6    | 12.1   | 14.6   | 12.6   | 11.1   | 10.1   |
| 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: P242390

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**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 |
| 2.5°  | 1428.0 | 1424.5 | 1417.9 | 1407.8 | 1401.8 | 1391.2 | 1384.1 | 1388.1 | 1389.1 | 1388.1 | 1387.1 |
| 5°    | 1394.7 | 1384.1 | 1369.4 | 1355.3 | 1342.2 | 1328.0 | 1319.9 | 1316.4 | 1309.3 | 1305.3 | 1303.3 |
| 7.5°  | 1356.8 | 1341.1 | 1320.4 | 1297.7 | 1276.5 | 1256.3 | 1247.2 | 1240.1 | 1227.0 | 1219.9 | 1213.3 |
| 10°   | 1313.4 | 1284.6 | 1263.9 | 1231.5 | 1211.8 | 1183.0 | 1163.3 | 1163.8 | 1144.1 | 1133.0 | 1124.9 |
| 12.5° | 1265.4 | 1233.0 | 1195.2 | 1166.9 | 1137.6 | 1115.9 | 1091.1 | 1079.0 | 1057.8 | 1047.2 | 1021.9 |
| 15°   | 1211.3 | 1174.5 | 1138.1 | 1098.7 | 1070.9 | 1035.0 | 1000.7 | 958.8  | 924.9  | 895.6  | 887.5  |
| 17.5° | 1153.7 | 1108.3 | 1072.4 | 1032.0 | 988.6  | 923.4  | 881.0  | 855.2  | 835.0  | 819.8  | 807.7  |
| 20°   | 1094.1 | 1047.7 | 1008.8 | 939.1  | 874.9  | 834.0  | 804.7  | 786.0  | 764.8  | 748.1  | 739.0  |
| 22.5° | 1031.5 | 982.5  | 925.9  | 846.1  | 799.6  | 768.8  | 743.6  | 721.3  | 708.7  | 696.6  | 688.5  |
| 25°   | 972.9  | 919.9  | 832.5  | 778.9  | 738.5  | 704.2  | 686.0  | 672.8  | 657.7  | 640.0  | 631.9  |
| 27.5° | 911.8  | 827.4  | 761.2  | 722.4  | 680.9  | 659.2  | 643.5  | 621.8  | 608.2  | 601.6  | 592.5  |
| 30°   | 841.6  | 757.2  | 708.2  | 664.8  | 637.5  | 612.7  | 593.5  | 582.4  | 569.3  | 555.7  | 550.1  |
| 32.5° | 763.3  | 700.1  | 653.7  | 619.3  | 591.5  | 571.3  | 557.2  | 537.5  | 528.9  | 521.8  | 508.7  |
| 35°   | 701.1  | 650.1  | 607.2  | 577.9  | 551.6  | 534.4  | 516.8  | 506.2  | 489.0  | 481.9  | 477.4  |
| 37.5° | 644.6  | 600.1  | 567.8  | 535.4  | 515.2  | 495.0  | 484.9  | 467.3  | 460.7  | 449.6  | 440.5  |
| 40°   | 598.1  | 554.6  | 523.8  | 498.6  | 475.3  | 461.2  | 447.6  | 433.9  | 422.8  | 418.3  | 406.6  |
| 42.5° | 550.6  | 517.3  | 486.5  | 458.2  | 444.5  | 429.4  | 411.2  | 402.1  | 390.5  | 382.4  | 376.3  |
| 45°   | 507.7  | 476.3  | 450.1  | 427.3  | 410.2  | 394.5  | 383.4  | 366.7  | 360.2  | 345.5  | 339.5  |
| 47.5° | 469.8  | 439.5  | 414.2  | 392.0  | 374.8  | 365.7  | 349.6  | 334.9  | 325.8  | 315.7  | 307.1  |
| 50°   | 428.9  | 404.6  | 380.4  | 361.2  | 346.0  | 331.4  | 314.7  | 308.1  | 292.0  | 287.4  | 282.9  |
| 52.5° | 391.5  | 368.8  | 347.0  | 328.3  | 313.2  | 299.0  | 284.9  | 275.8  | 266.2  | 261.7  | 258.6  |
| 55°   | 357.1  | 334.9  | 313.7  | 297.0  | 281.9  | 267.2  | 258.1  | 247.5  | 242.5  | 238.9  | 234.9  |
| 57.5° | 321.8  | 301.6  | 284.9  | 267.7  | 252.6  | 240.4  | 229.3  | 223.3  | 218.2  | 214.2  | 208.6  |
| 60°   | 288.4  | 269.2  | 254.6  | 238.9  | 223.3  | 213.7  | 205.6  | 198.0  | 192.0  | 184.9  | 182.9  |
| 62.5° | 253.1  | 236.9  | 223.8  | 208.6  | 195.5  | 186.9  | 179.3  | 172.3  | 164.7  | 153.6  | 150.5  |
| 65°   | 221.3  | 208.1  | 194.0  | 181.3  | 169.2  | 160.6  | 149.5  | 141.4  | 138.4  | 137.4  | 136.9  |
| 67.5° | 192.0  | 179.3  | 167.2  | 154.1  | 143.0  | 133.4  | 126.8  | 125.8  | 123.8  | 123.3  | 121.7  |
| 70°   | 162.7  | 151.0  | 138.9  | 126.8  | 116.2  | 114.7  | 112.6  | 110.6  | 108.1  | 107.1  | 106.1  |
| 72.5° | 136.4  | 124.3  | 112.1  | 103.0  | 100.0  | 98.0   | 96.0   | 94.0   | 92.4   | 91.4   | 90.9   |
| 75°   | 108.6  | 97.5   | 89.4   | 85.9   | 83.3   | 81.8   | 78.8   | 77.3   | 76.3   | 74.8   | 74.3   |
| 77.5° | 82.8   | 75.8   | 71.7   | 69.7   | 66.7   | 65.2   | 63.1   | 61.6   | 60.1   | 60.1   | 59.1   |
| 80°   | 59.6   | 56.6   | 54.1   | 51.0   | 50.0   | 48.0   | 47.5   | 46.0   | 46.5   | 45.0   | 45.0   |
| 82.5° | 42.9   | 38.9   | 36.9   | 35.9   | 34.9   | 33.3   | 32.8   | 32.3   | 32.3   | 31.3   | 31.3   |
| 85°   | 23.7   | 22.7   | 21.7   | 20.7   | 20.7   | 19.2   | 19.7   | 19.2   | 19.2   | 18.2   | 17.7   |
| 87.5° | 9.6    | 9.1    | 8.1    | 8.1    | 8.1    | 7.6    | 7.6    | 7.1    | 7.1    | 7.1    | 6.6    |
| 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: P242390

CATALOG NUMBER: S122RDR-S865D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1453.8 | 1453.8 | 1453.8 | 1453.8 |
| 2.5°  | 1381.6 | 1382.6 | 1381.1 | 1382.1 |
| 5°    | 1300.7 | 1294.7 | 1293.7 | 1292.2 |
| 7.5°  | 1205.3 | 1204.8 | 1201.7 | 1198.2 |
| 10°   | 1113.8 | 1111.3 | 1110.8 | 1107.3 |
| 12.5° | 1006.7 | 987.0  | 985.0  | 974.9  |
| 15°   | 875.4  | 872.4  | 862.3  | 855.7  |
| 17.5° | 802.2  | 792.1  | 788.5  | 787.0  |
| 20°   | 731.9  | 722.9  | 721.3  | 720.3  |
| 22.5° | 683.5  | 673.9  | 669.3  | 665.8  |
| 25°   | 626.9  | 623.3  | 621.3  | 620.3  |
| 27.5° | 582.4  | 573.3  | 572.3  | 569.8  |
| 30°   | 545.6  | 543.0  | 539.5  | 536.5  |
| 32.5° | 502.1  | 500.1  | 497.1  | 496.0  |
| 35°   | 472.3  | 465.2  | 462.2  | 457.7  |
| 37.5° | 439.5  | 435.4  | 430.4  | 432.4  |
| 40°   | 400.1  | 397.5  | 396.5  | 396.0  |
| 42.5° | 368.8  | 360.7  | 357.6  | 357.6  |
| 45°   | 336.9  | 330.4  | 325.8  | 326.3  |
| 47.5° | 302.6  | 303.1  | 300.1  | 301.1  |
| 50°   | 279.3  | 276.3  | 274.3  | 274.8  |
| 52.5° | 257.1  | 254.6  | 253.1  | 255.6  |
| 55°   | 232.4  | 229.3  | 228.8  | 228.3  |
| 57.5° | 205.6  | 204.1  | 201.6  | 200.0  |
| 60°   | 176.3  | 172.3  | 167.2  | 166.7  |
| 62.5° | 149.5  | 149.5  | 149.5  | 149.5  |
| 65°   | 135.9  | 135.4  | 135.9  | 136.4  |
| 67.5° | 121.7  | 120.7  | 119.7  | 120.2  |
| 70°   | 105.1  | 104.6  | 104.1  | 104.1  |
| 72.5° | 88.9   | 88.9   | 88.4   | 87.9   |
| 75°   | 73.8   | 72.7   | 72.7   | 72.7   |
| 77.5° | 59.1   | 58.6   | 58.1   | 57.6   |
| 80°   | 44.5   | 43.9   | 43.4   | 43.4   |
| 82.5° | 31.3   | 30.8   | 30.8   | 30.3   |
| 85°   | 18.2   | 18.7   | 18.2   | 19.2   |
| 87.5° | 6.6    | 6.1    | 6.6    | 6.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)