

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: P242124

Luminaire Tested: **S121DR-S685D835-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S121DR-S685D835-X4F0-XX-UDD-A-W
Description: DEFINE 1 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2863.4 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.37
Luminous Opening: Rectangular (W 3.88' x L: 0.09' x H: 0')
CIE Type: Direct

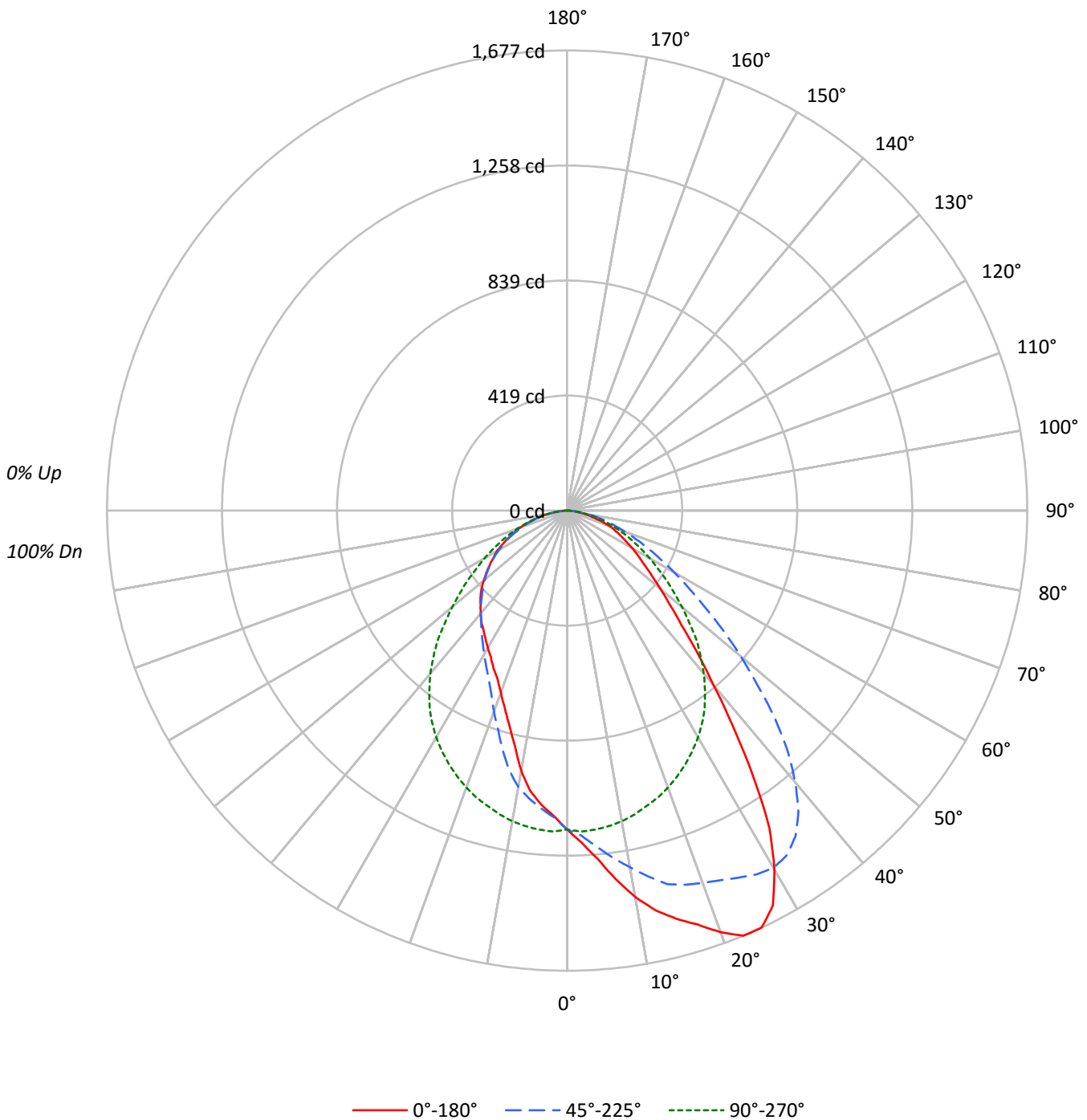
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242124

CATALOG NUMBER: S121DR-S685D835-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P242124

CATALOG NUMBER: S121DR-S685D835-X4F0-XX-UDD-A-W

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 | 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 | | | | | 100 | | | |
| 1 | 110 | 105 | 102 | 98 | 107 | 103 | 100 | 96 | 99 | 96 | 93 | 95 | 93 | 91 | 92 | 90 | 88 | | | | | 86 | | | | |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 85 | 81 | 88 | 83 | 79 | 85 | 80 | 77 | 82 | 78 | 75 | | | | | 73 | | | | |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | | | | | 63 | | | | |
| 4 | 85 | 74 | 66 | 59 | 83 | 73 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | | | | | 54 | | | | |
| 5 | 79 | 66 | 58 | 52 | 77 | 65 | 57 | 51 | 63 | 56 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | | | | | 48 | | | | |
| 6 | 73 | 60 | 52 | 46 | 71 | 59 | 51 | 45 | 57 | 50 | 45 | 56 | 49 | 45 | 54 | 49 | 44 | | | | | 42 | | | | |
| 7 | 68 | 55 | 46 | 41 | 66 | 54 | 46 | 40 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | | | | | 38 | | | | |
| 8 | 63 | 50 | 42 | 36 | 62 | 50 | 42 | 36 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | | | | | 34 | | | | |
| 9 | 59 | 46 | 38 | 33 | 58 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 42 | 37 | 32 | | | | | 31 | | | | |
| 10 | 56 | 43 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 39 | 34 | 30 | | | | | 28 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 34430 | 34430 | 34430 |
| 5° | 37892 | 34710 | 32003 |
| 10° | 43024 | 34585 | 28943 |
| 15° | 47239 | 34203 | 24877 |
| 20° | 51557 | 33865 | 22261 |
| 25° | 54829 | 33330 | 20727 |
| 30° | 51696 | 32640 | 19775 |
| 35° | 42718 | 31614 | 19207 |
| 40° | 32026 | 29976 | 18953 |
| 45° | 24681 | 27949 | 18731 |
| 50° | 20466 | 25145 | 18300 |
| 55° | 17667 | 22833 | 17770 |
| 60° | 16237 | 20593 | 17541 |
| 65° | 15004 | 18614 | 16546 |
| 70° | 14208 | 16720 | 15854 |
| 75° | 11677 | 14768 | 14081 |
| 80° | 9214 | 12029 | 11603 |
| 85° | 7139 | 8839 | 7819 |



TEST NUMBER: P242124

CATALOG NUMBER: S121DR-S685D835-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.7 | 3.9 |
| 10°-20° | 325.9 | 11.4 |
| 20°-30° | 499.1 | 17.4 |
| 30°-40° | 569.5 | 19.9 |
| 40°-50° | 511.0 | 17.8 |
| 50°-60° | 400.8 | 14.0 |
| 60°-70° | 272.7 | 9.5 |
| 70°-80° | 140.4 | 4.9 |
| 80°-90° | 32.3 | 1.1 |
| 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° | 936.7 | 32.7 |
| 0°-40° | 1506.2 | 52.6 |
| 0°-60° | 2418.0 | 84.4 |
| 0°-90° | 2863.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2863.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1162 | 1162 | 1162 | 1162 | 1162 | |
| 5° | 1274 | 1229 | 1167 | 1089 | 1076 | 127 |
| 15° | 1540 | 1410 | 1115 | 906 | 811 | 438 |
| 25° | 1677 | 1476 | 1020 | 676 | 634 | 756 |
| 35° | 1181 | 1450 | 874 | 542 | 531 | 732 |
| 45° | 589 | 1070 | 667 | 440 | 447 | 467 |
| 55° | 342 | 610 | 442 | 340 | 344 | 312 |
| 65° | 214 | 325 | 266 | 232 | 236 | 213 |
| 75° | 102 | 143 | 129 | 118 | 123 | 110 |
| 85° | 21 | 28 | 26 | 24 | 23 | 25 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242124

CATALOG NUMBER: S121DR-S685D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 |
| 2.5° | 1211.0 | 1211.0 | 1213.0 | 1212.5 | 1210.5 | 1207.0 | 1204.0 | 1200.5 | 1191.5 | 1185.5 | 1191.0 |
| 5° | 1274.0 | 1276.5 | 1279.0 | 1278.5 | 1271.0 | 1264.5 | 1255.0 | 1252.5 | 1236.5 | 1229.0 | 1226.5 |
| 7.5° | 1354.0 | 1353.5 | 1354.5 | 1346.0 | 1339.5 | 1333.0 | 1320.5 | 1305.0 | 1286.0 | 1275.5 | 1265.5 |
| 10° | 1430.0 | 1434.5 | 1432.5 | 1422.0 | 1412.0 | 1405.0 | 1385.0 | 1366.0 | 1342.5 | 1320.0 | 1307.5 |
| 12.5° | 1492.0 | 1489.5 | 1498.0 | 1488.0 | 1476.0 | 1463.0 | 1443.5 | 1426.5 | 1396.0 | 1365.5 | 1340.0 |
| 15° | 1540.0 | 1537.5 | 1538.5 | 1531.0 | 1518.5 | 1507.0 | 1487.0 | 1469.0 | 1440.0 | 1409.5 | 1382.5 |
| 17.5° | 1582.0 | 1584.5 | 1580.0 | 1571.0 | 1554.0 | 1540.5 | 1515.5 | 1491.0 | 1460.5 | 1430.0 | 1403.5 |
| 20° | 1635.1 | 1637.6 | 1629.1 | 1616.0 | 1599.5 | 1576.5 | 1550.5 | 1515.5 | 1481.5 | 1444.0 | 1411.0 |
| 22.5° | 1677.1 | 1675.6 | 1672.6 | 1660.1 | 1642.6 | 1621.0 | 1583.5 | 1545.0 | 1504.5 | 1458.0 | 1415.5 |
| 25° | 1677.1 | 1679.1 | 1680.6 | 1674.1 | 1662.6 | 1644.6 | 1619.0 | 1578.5 | 1533.0 | 1476.0 | 1416.5 |
| 27.5° | 1623.0 | 1632.1 | 1638.6 | 1638.6 | 1636.1 | 1635.6 | 1620.5 | 1595.0 | 1552.5 | 1495.0 | 1429.0 |
| 30° | 1511.0 | 1523.0 | 1533.0 | 1548.5 | 1567.0 | 1579.0 | 1583.5 | 1573.5 | 1551.5 | 1503.0 | 1434.5 |
| 32.5° | 1373.0 | 1372.0 | 1392.5 | 1417.5 | 1454.0 | 1479.5 | 1505.0 | 1520.0 | 1519.0 | 1490.0 | 1433.0 |
| 35° | 1181.0 | 1195.0 | 1219.5 | 1254.5 | 1301.5 | 1343.5 | 1399.0 | 1428.0 | 1451.0 | 1450.0 | 1413.5 |
| 37.5° | 994.0 | 996.0 | 1023.5 | 1071.5 | 1113.0 | 1178.0 | 1250.5 | 1311.0 | 1366.5 | 1384.5 | 1372.5 |
| 40° | 828.0 | 842.0 | 860.5 | 900.5 | 942.0 | 999.0 | 1091.0 | 1172.0 | 1240.5 | 1293.5 | 1308.0 |
| 42.5° | 700.0 | 707.5 | 725.5 | 760.5 | 797.5 | 865.5 | 933.0 | 1019.5 | 1106.0 | 1190.5 | 1234.0 |
| 45° | 589.0 | 596.0 | 612.5 | 637.0 | 671.5 | 725.0 | 794.5 | 878.5 | 971.0 | 1070.0 | 1132.0 |
| 47.5° | 508.0 | 510.5 | 523.0 | 541.5 | 574.0 | 613.0 | 669.0 | 750.5 | 844.0 | 940.5 | 1031.5 |
| 50° | 444.0 | 448.0 | 456.5 | 471.0 | 495.0 | 531.5 | 576.0 | 637.5 | 724.0 | 824.0 | 916.5 |
| 52.5° | 388.0 | 391.0 | 401.0 | 409.0 | 427.5 | 458.5 | 497.0 | 553.0 | 626.0 | 716.0 | 811.5 |
| 55° | 342.0 | 345.0 | 350.0 | 359.0 | 373.5 | 394.5 | 427.5 | 472.0 | 534.5 | 610.5 | 700.0 |
| 57.5° | 307.0 | 308.5 | 309.5 | 315.5 | 327.0 | 344.0 | 372.0 | 407.0 | 455.5 | 525.0 | 604.5 |
| 60° | 274.0 | 273.5 | 277.5 | 282.0 | 289.0 | 299.5 | 320.0 | 351.5 | 395.0 | 451.5 | 525.5 |
| 62.5° | 241.0 | 243.5 | 246.0 | 249.5 | 254.0 | 260.0 | 276.5 | 300.0 | 334.5 | 383.0 | 444.0 |
| 65° | 214.0 | 214.5 | 216.5 | 217.0 | 222.5 | 228.5 | 241.0 | 257.0 | 285.5 | 325.0 | 375.5 |
| 67.5° | 188.0 | 188.5 | 188.0 | 189.5 | 192.0 | 197.0 | 203.5 | 216.5 | 238.5 | 270.5 | 314.5 |
| 70° | 164.0 | 162.5 | 160.5 | 163.0 | 165.5 | 168.0 | 172.5 | 182.5 | 199.0 | 223.0 | 259.5 |
| 72.5° | 132.0 | 133.0 | 134.0 | 135.0 | 135.5 | 139.0 | 143.0 | 150.0 | 163.0 | 181.5 | 209.5 |
| 75° | 102.0 | 102.0 | 103.5 | 104.5 | 109.0 | 110.0 | 114.5 | 119.5 | 130.0 | 143.0 | 165.0 |
| 77.5° | 75.0 | 74.5 | 77.0 | 77.5 | 80.0 | 83.0 | 85.5 | 90.5 | 98.5 | 109.5 | 124.0 |
| 80° | 54.0 | 54.5 | 54.0 | 54.0 | 55.5 | 57.5 | 61.0 | 63.5 | 69.0 | 76.0 | 86.5 |
| 82.5° | 36.0 | 36.0 | 36.5 | 36.5 | 38.0 | 38.0 | 40.0 | 42.0 | 45.5 | 50.0 | 57.5 |
| 85° | 21.0 | 21.0 | 20.5 | 20.5 | 21.0 | 21.0 | 23.0 | 24.5 | 25.0 | 28.0 | 30.5 |
| 87.5° | 9.0 | 9.0 | 8.5 | 9.0 | 8.5 | 9.0 | 8.5 | 9.5 | 10.0 | 10.5 | 11.5 |
| 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: P242124

CATALOG NUMBER: S121DR-S685D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 |
| 2.5° | 1189.5 | 1188.0 | 1187.5 | 1182.0 | 1176.5 | 1170.0 | 1169.0 | 1171.0 | 1162.5 | 1152.0 | 1151.5 |
| 5° | 1220.5 | 1215.0 | 1207.0 | 1196.5 | 1187.5 | 1175.5 | 1169.5 | 1167.0 | 1154.0 | 1139.0 | 1136.0 |
| 7.5° | 1255.0 | 1241.5 | 1227.0 | 1211.0 | 1195.0 | 1177.5 | 1166.5 | 1160.0 | 1142.0 | 1123.5 | 1116.0 |
| 10° | 1288.0 | 1270.5 | 1248.5 | 1224.0 | 1201.5 | 1177.5 | 1161.0 | 1149.5 | 1127.5 | 1104.5 | 1093.0 |
| 12.5° | 1326.0 | 1297.0 | 1266.0 | 1235.5 | 1208.0 | 1177.0 | 1152.0 | 1134.5 | 1109.0 | 1084.5 | 1067.5 |
| 15° | 1353.5 | 1311.5 | 1287.5 | 1244.0 | 1209.5 | 1172.0 | 1141.5 | 1115.0 | 1087.0 | 1060.0 | 1043.0 |
| 17.5° | 1375.0 | 1342.0 | 1300.0 | 1252.0 | 1205.5 | 1165.0 | 1127.0 | 1097.5 | 1060.5 | 1031.0 | 1012.5 |
| 20° | 1382.0 | 1348.5 | 1305.5 | 1253.0 | 1206.5 | 1154.5 | 1109.5 | 1074.0 | 1034.5 | 998.5 | 973.0 |
| 22.5° | 1379.5 | 1341.5 | 1297.5 | 1246.0 | 1199.0 | 1137.5 | 1090.5 | 1048.0 | 1004.0 | 965.5 | 930.5 |
| 25° | 1374.0 | 1330.0 | 1281.5 | 1233.0 | 1180.5 | 1120.0 | 1066.0 | 1019.5 | 966.5 | 924.5 | 882.5 |
| 27.5° | 1371.0 | 1313.5 | 1259.0 | 1206.5 | 1156.5 | 1098.0 | 1040.0 | 988.0 | 929.5 | 878.5 | 824.5 |
| 30° | 1370.0 | 1301.5 | 1233.0 | 1172.0 | 1126.0 | 1066.5 | 1009.0 | 954.0 | 885.5 | 828.0 | 773.0 |
| 32.5° | 1368.0 | 1291.5 | 1211.0 | 1138.0 | 1085.5 | 1032.0 | 971.0 | 916.5 | 839.0 | 779.0 | 720.0 |
| 35° | 1354.5 | 1274.0 | 1185.5 | 1102.5 | 1041.0 | 985.5 | 931.0 | 874.0 | 793.5 | 729.0 | 672.5 |
| 37.5° | 1325.5 | 1255.0 | 1160.5 | 1067.0 | 993.5 | 937.0 | 886.5 | 824.5 | 746.5 | 676.0 | 623.5 |
| 40° | 1282.5 | 1225.0 | 1133.5 | 1032.0 | 945.5 | 883.5 | 830.0 | 775.0 | 694.5 | 627.0 | 579.5 |
| 42.5° | 1226.5 | 1182.0 | 1096.0 | 991.0 | 899.0 | 829.5 | 775.0 | 720.5 | 646.5 | 581.5 | 539.0 |
| 45° | 1153.0 | 1125.5 | 1050.0 | 946.5 | 854.0 | 773.5 | 714.5 | 667.0 | 598.5 | 539.0 | 500.0 |
| 47.5° | 1071.5 | 1059.5 | 996.5 | 897.0 | 799.5 | 721.5 | 652.5 | 602.5 | 549.0 | 498.5 | 464.0 |
| 50° | 973.0 | 982.5 | 933.0 | 841.5 | 747.0 | 667.0 | 599.5 | 545.5 | 499.0 | 460.0 | 429.5 |
| 52.5° | 881.0 | 903.5 | 863.5 | 776.5 | 692.0 | 609.0 | 541.0 | 491.5 | 455.0 | 423.0 | 396.5 |
| 55° | 778.5 | 811.0 | 787.0 | 712.0 | 628.0 | 554.5 | 486.5 | 442.0 | 410.5 | 386.0 | 363.5 |
| 57.5° | 680.0 | 726.0 | 708.5 | 641.0 | 569.5 | 498.0 | 434.0 | 390.0 | 367.5 | 349.5 | 330.5 |
| 60° | 592.5 | 634.5 | 632.0 | 574.5 | 503.0 | 439.5 | 387.0 | 347.5 | 327.5 | 315.5 | 299.0 |
| 62.5° | 514.0 | 556.5 | 552.5 | 500.5 | 444.0 | 385.0 | 340.5 | 304.5 | 290.0 | 277.0 | 266.5 |
| 65° | 434.0 | 470.5 | 472.5 | 434.0 | 379.5 | 332.0 | 294.0 | 265.5 | 252.5 | 244.5 | 237.0 |
| 67.5° | 361.5 | 397.0 | 400.5 | 370.0 | 322.0 | 281.0 | 252.5 | 228.5 | 217.0 | 210.0 | 204.5 |
| 70° | 298.0 | 327.0 | 333.5 | 308.0 | 267.5 | 235.5 | 211.5 | 193.0 | 185.5 | 178.5 | 176.5 |
| 72.5° | 241.5 | 265.0 | 269.5 | 246.0 | 216.0 | 192.0 | 173.5 | 159.5 | 154.0 | 147.0 | 145.5 |
| 75° | 192.0 | 208.5 | 209.0 | 193.5 | 171.0 | 152.5 | 137.5 | 129.0 | 123.0 | 118.0 | 117.0 |
| 77.5° | 139.5 | 154.0 | 158.5 | 147.0 | 128.5 | 113.0 | 104.5 | 98.0 | 94.0 | 91.5 | 91.0 |
| 80° | 101.0 | 110.5 | 112.5 | 102.5 | 91.5 | 82.0 | 76.0 | 70.5 | 68.0 | 65.5 | 64.5 |
| 82.5° | 63.0 | 71.5 | 72.0 | 65.0 | 59.5 | 53.0 | 48.0 | 46.0 | 44.5 | 43.0 | 43.0 |
| 85° | 34.0 | 38.5 | 38.0 | 35.0 | 32.5 | 29.0 | 27.0 | 26.0 | 25.0 | 24.0 | 24.0 |
| 87.5° | 13.0 | 14.5 | 14.5 | 15.0 | 13.0 | 11.5 | 10.5 | 11.0 | 10.5 | 10.5 | 10.5 |
| 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: P242124

CATALOG NUMBER: S121DR-S685D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 | 1162.0 |
| 2.5° | 1148.0 | 1146.0 | 1141.0 | 1133.0 | 1128.5 | 1118.5 | 1119.0 | 1121.0 | 1121.5 | 1120.0 | 1119.5 |
| 5° | 1127.5 | 1121.5 | 1113.5 | 1103.5 | 1096.5 | 1089.0 | 1084.0 | 1087.0 | 1085.5 | 1085.0 | 1082.5 |
| 7.5° | 1105.0 | 1097.0 | 1087.0 | 1077.0 | 1069.0 | 1059.0 | 1055.0 | 1051.5 | 1047.5 | 1047.0 | 1045.0 |
| 10° | 1082.5 | 1072.5 | 1061.0 | 1046.5 | 1035.5 | 1023.0 | 1011.0 | 1004.5 | 997.0 | 991.5 | 980.0 |
| 12.5° | 1056.0 | 1039.0 | 1026.0 | 1011.0 | 991.0 | 971.0 | 957.5 | 939.0 | 929.0 | 919.0 | 905.5 |
| 15° | 1025.5 | 1003.5 | 981.0 | 951.0 | 933.5 | 905.5 | 885.5 | 872.0 | 856.5 | 846.5 | 835.0 |
| 17.5° | 982.0 | 959.0 | 930.5 | 896.5 | 865.5 | 837.0 | 822.5 | 805.0 | 798.5 | 776.5 | 774.5 |
| 20° | 939.0 | 904.5 | 869.0 | 834.5 | 800.0 | 779.5 | 761.0 | 749.5 | 737.5 | 723.5 | 719.0 |
| 22.5° | 890.5 | 845.5 | 808.0 | 776.0 | 744.5 | 722.0 | 713.0 | 700.0 | 688.5 | 680.5 | 673.0 |
| 25° | 831.5 | 790.0 | 752.0 | 722.0 | 693.5 | 676.5 | 665.0 | 655.5 | 650.5 | 641.5 | 638.5 |
| 27.5° | 777.0 | 735.5 | 705.0 | 677.0 | 654.0 | 639.0 | 629.0 | 620.5 | 614.0 | 612.5 | 609.0 |
| 30° | 721.5 | 686.0 | 657.0 | 633.0 | 612.5 | 604.5 | 595.0 | 591.0 | 587.0 | 585.0 | 581.0 |
| 32.5° | 671.5 | 640.0 | 614.5 | 591.5 | 579.5 | 572.0 | 567.0 | 563.0 | 560.0 | 559.0 | 558.0 |
| 35° | 626.0 | 597.0 | 576.0 | 559.5 | 550.5 | 542.5 | 540.0 | 536.5 | 535.0 | 534.5 | 534.0 |
| 37.5° | 586.0 | 559.0 | 543.0 | 528.5 | 522.0 | 514.5 | 515.0 | 513.5 | 512.5 | 509.5 | 511.5 |
| 40° | 545.5 | 524.5 | 508.0 | 496.5 | 492.0 | 489.5 | 488.5 | 487.5 | 488.0 | 488.0 | 487.5 |
| 42.5° | 508.5 | 490.0 | 479.5 | 468.5 | 466.5 | 464.5 | 464.5 | 463.0 | 463.5 | 466.0 | 467.0 |
| 45° | 475.0 | 460.5 | 451.0 | 442.0 | 442.0 | 439.5 | 441.5 | 441.0 | 442.5 | 444.0 | 445.0 |
| 47.5° | 441.5 | 428.5 | 421.5 | 417.0 | 415.0 | 415.0 | 416.5 | 419.0 | 420.0 | 420.5 | 421.5 |
| 50° | 408.0 | 398.5 | 392.5 | 390.0 | 389.5 | 392.0 | 393.5 | 393.0 | 394.5 | 396.5 | 398.0 |
| 52.5° | 378.5 | 370.0 | 366.0 | 365.0 | 365.0 | 367.0 | 367.5 | 369.0 | 370.0 | 370.0 | 372.0 |
| 55° | 348.0 | 342.0 | 339.0 | 338.5 | 339.0 | 340.0 | 342.0 | 343.0 | 342.5 | 343.5 | 343.5 |
| 57.5° | 317.5 | 313.0 | 311.5 | 313.0 | 313.0 | 315.0 | 315.0 | 315.0 | 314.5 | 316.5 | 316.0 |
| 60° | 289.0 | 284.0 | 285.5 | 285.0 | 286.5 | 286.5 | 288.0 | 288.0 | 286.5 | 288.5 | 289.5 |
| 62.5° | 260.5 | 259.5 | 257.5 | 257.5 | 259.0 | 259.5 | 258.0 | 259.5 | 260.0 | 261.5 | 262.5 |
| 65° | 230.5 | 227.0 | 228.5 | 228.0 | 229.5 | 232.0 | 230.0 | 230.0 | 231.5 | 233.5 | 234.5 |
| 67.5° | 202.0 | 199.0 | 200.5 | 201.0 | 201.0 | 202.0 | 200.5 | 201.5 | 203.5 | 206.0 | 207.5 |
| 70° | 173.0 | 172.0 | 172.5 | 172.0 | 172.0 | 174.5 | 175.0 | 174.5 | 176.5 | 179.0 | 179.5 |
| 72.5° | 143.5 | 144.5 | 143.5 | 144.5 | 145.5 | 144.0 | 144.5 | 146.0 | 148.0 | 149.5 | 152.0 |
| 75° | 116.5 | 115.0 | 115.5 | 118.0 | 117.5 | 118.5 | 118.0 | 119.5 | 123.0 | 122.0 | 122.5 |
| 77.5° | 90.0 | 89.5 | 90.0 | 90.5 | 91.0 | 92.5 | 92.0 | 94.5 | 95.0 | 95.5 | 96.5 |
| 80° | 64.0 | 64.5 | 65.0 | 66.0 | 67.5 | 67.0 | 68.0 | 68.5 | 70.5 | 68.5 | 70.0 |
| 82.5° | 43.5 | 43.0 | 44.0 | 44.0 | 45.5 | 46.5 | 45.0 | 45.0 | 45.0 | 44.5 | 44.5 |
| 85° | 24.0 | 25.5 | 25.5 | 25.5 | 24.5 | 24.5 | 25.0 | 24.5 | 24.5 | 24.5 | 24.0 |
| 87.5° | 10.5 | 10.5 | 10.0 | 9.5 | 10.0 | 9.5 | 9.5 | 9.0 | 8.5 | 8.5 | 8.0 |
| 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: P242124

CATALOG NUMBER: S121DR-S685D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1162.0 | 1162.0 | 1162.0 | 1162.0 |
| 2.5° | 1116.5 | 1119.0 | 1116.0 | 1114.0 |
| 5° | 1080.0 | 1080.0 | 1077.0 | 1076.0 |
| 7.5° | 1039.0 | 1039.5 | 1034.0 | 1030.0 |
| 10° | 977.5 | 974.5 | 966.5 | 962.0 |
| 12.5° | 895.5 | 900.0 | 888.0 | 879.0 |
| 15° | 824.0 | 811.5 | 816.5 | 811.0 |
| 17.5° | 764.0 | 760.0 | 754.5 | 755.0 |
| 20° | 711.5 | 708.5 | 705.5 | 706.0 |
| 22.5° | 670.0 | 667.5 | 666.5 | 663.0 |
| 25° | 635.5 | 636.5 | 634.0 | 634.0 |
| 27.5° | 607.0 | 605.5 | 604.0 | 602.0 |
| 30° | 580.0 | 580.5 | 579.0 | 578.0 |
| 32.5° | 556.0 | 556.5 | 555.5 | 554.0 |
| 35° | 532.5 | 532.0 | 532.5 | 531.0 |
| 37.5° | 511.0 | 510.5 | 511.0 | 513.0 |
| 40° | 489.0 | 489.5 | 488.0 | 490.0 |
| 42.5° | 467.5 | 468.0 | 468.0 | 467.0 |
| 45° | 444.0 | 445.5 | 446.0 | 447.0 |
| 47.5° | 421.0 | 423.5 | 422.5 | 423.0 |
| 50° | 398.0 | 397.5 | 397.5 | 397.0 |
| 52.5° | 372.5 | 371.0 | 370.5 | 371.0 |
| 55° | 342.0 | 344.0 | 344.0 | 344.0 |
| 57.5° | 317.0 | 317.5 | 319.0 | 317.0 |
| 60° | 291.5 | 291.5 | 292.0 | 296.0 |
| 62.5° | 263.0 | 263.5 | 264.5 | 265.0 |
| 65° | 235.5 | 237.0 | 236.5 | 236.0 |
| 67.5° | 208.5 | 208.5 | 209.0 | 208.0 |
| 70° | 180.5 | 180.5 | 180.5 | 183.0 |
| 72.5° | 151.5 | 151.5 | 152.0 | 153.0 |
| 75° | 124.5 | 124.5 | 124.5 | 123.0 |
| 77.5° | 95.0 | 95.5 | 95.5 | 96.0 |
| 80° | 69.0 | 68.5 | 68.5 | 68.0 |
| 82.5° | 43.5 | 44.0 | 43.5 | 43.0 |
| 85° | 24.0 | 24.5 | 23.0 | 23.0 |
| 87.5° | 8.5 | 8.5 | 8.0 | 9.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)