

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: P333922

Luminaire Tested: **S123DP-S775D835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DP-S775D835-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 775 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

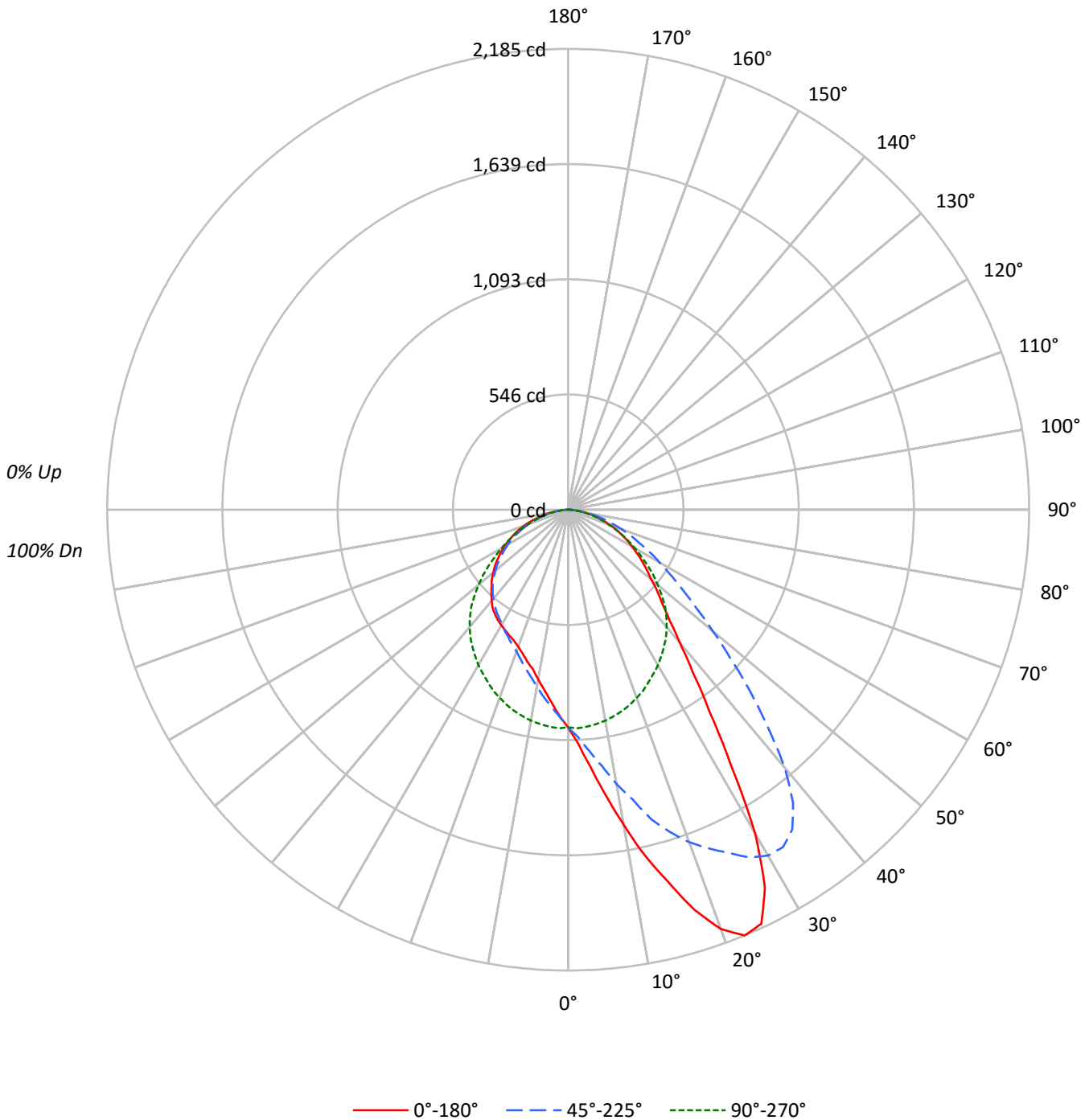
Lumens per Lamp: N/A
Luminaire Lumens: 3114.8 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5
Luminous Opening: Rectangular (W 4' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): 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: P333922
CATALOG NUMBER: S123DP-S775D835-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333922

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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 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | | 95 | 92 | 90 | | 91 | 89 | 87 | 85 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | | 84 | 80 | 76 | | 81 | 78 | 74 | 72 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | | 75 | 69 | 65 | | 72 | 68 | 64 | 62 |
| 4 | 84 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | | 67 | 61 | 56 | | 65 | 60 | 56 | 53 |
| 5 | 78 | 66 | 57 | 51 | 76 | 64 | 56 | 50 | 62 | 55 | 50 | | 60 | 54 | 49 | | 59 | 53 | 49 | 47 |
| 6 | 72 | 59 | 51 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | | 55 | 48 | 43 | | 53 | 48 | 43 | 41 |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | | 50 | 44 | 39 | | 49 | 43 | 38 | 36 |
| 8 | 62 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | | 46 | 39 | 35 | | 45 | 39 | 35 | 33 |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 43 | 36 | 32 | | 42 | 36 | 31 | | 41 | 36 | 31 | 29 |
| 10 | 55 | 42 | 34 | 29 | 53 | 41 | 34 | 29 | 40 | 33 | 29 | | 39 | 33 | 29 | | 38 | 33 | 28 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|------|------|
| 0° | 5554 | 5554 | 5554 |
| 5° | 6623 | 5578 | 4943 |
| 10° | 8290 | 5550 | 4465 |
| 15° | 10168 | 5505 | 4157 |
| 20° | 12113 | 5435 | 3958 |
| 25° | 12862 | 5350 | 3913 |
| 30° | 11024 | 5289 | 3934 |
| 35° | 7667 | 5200 | 3975 |
| 40° | 5775 | 5097 | 3962 |
| 45° | 4795 | 4943 | 3912 |
| 50° | 4295 | 4630 | 3877 |
| 55° | 4016 | 4293 | 3828 |
| 60° | 3767 | 3940 | 3789 |
| 65° | 3540 | 3591 | 3668 |
| 70° | 3320 | 3194 | 3493 |
| 75° | 2974 | 2797 | 3202 |
| 80° | 2603 | 2294 | 2758 |
| 85° | 2038 | 1667 | 1853 |



TEST NUMBER: P333922

CATALOG NUMBER: S123DP-S775D835-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.5 | 3.3 |
| 10°-20° | 326.0 | 10.5 |
| 20°-30° | 548.5 | 17.6 |
| 30°-40° | 619.9 | 19.9 |
| 40°-50° | 555.3 | 17.8 |
| 50°-60° | 448.2 | 14.4 |
| 60°-70° | 312.3 | 10.0 |
| 70°-80° | 163.9 | 5.3 |
| 80°-90° | 39.3 | 1.3 |
| 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° | 976.0 | 31.3 |
| 0°-40° | 1595.9 | 51.2 |
| 0°-60° | 2599.3 | 83.5 |
| 0°-90° | 3114.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3114.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1032 | 1032 | 1032 | 1032 | 1032 | |
| 5° | 1226 | 1149 | 1032 | 935 | 915 | 126 |
| 15° | 1825 | 1519 | 988 | 779 | 746 | 527 |
| 25° | 2166 | 1795 | 901 | 670 | 659 | 958 |
| 35° | 1167 | 1851 | 792 | 592 | 605 | 753 |
| 45° | 630 | 1220 | 650 | 506 | 514 | 497 |
| 55° | 428 | 662 | 458 | 391 | 408 | 384 |
| 65° | 278 | 372 | 282 | 266 | 288 | 277 |
| 75° | 143 | 176 | 134 | 134 | 154 | 153 |
| 85° | 33 | 38 | 27 | 26 | 30 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P333922

CATALOG NUMBER: S123DP-S775D835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 |
| 2.5° | 1111.0 | 1110.0 | 1107.5 | 1109.5 | 1105.5 | 1100.0 | 1099.5 | 1094.5 | 1080.0 | 1079.0 | 1075.0 |
| 5° | 1226.0 | 1222.0 | 1221.5 | 1221.0 | 1214.0 | 1204.5 | 1186.5 | 1185.0 | 1161.0 | 1149.0 | 1134.5 |
| 7.5° | 1364.9 | 1363.4 | 1359.4 | 1354.9 | 1331.4 | 1319.9 | 1302.9 | 1280.9 | 1252.9 | 1226.0 | 1209.0 |
| 10° | 1516.9 | 1533.4 | 1512.9 | 1498.9 | 1485.9 | 1461.4 | 1432.9 | 1397.4 | 1361.9 | 1320.4 | 1288.9 |
| 12.5° | 1679.9 | 1685.9 | 1685.9 | 1672.9 | 1650.9 | 1610.4 | 1554.4 | 1514.4 | 1482.4 | 1406.4 | 1379.4 |
| 15° | 1824.9 | 1855.4 | 1835.9 | 1790.9 | 1791.9 | 1756.4 | 1690.4 | 1617.9 | 1579.4 | 1518.9 | 1436.4 |
| 17.5° | 1988.9 | 1994.4 | 1988.4 | 1946.4 | 1925.9 | 1874.4 | 1814.9 | 1747.4 | 1674.9 | 1601.4 | 1515.9 |
| 20° | 2114.9 | 2111.9 | 2094.4 | 2074.9 | 2031.9 | 1993.9 | 1927.4 | 1849.9 | 1749.9 | 1677.9 | 1582.4 |
| 22.5° | 2184.9 | 2179.4 | 2173.4 | 2157.9 | 2123.9 | 2082.4 | 2024.4 | 1937.9 | 1843.9 | 1737.9 | 1623.9 |
| 25° | 2165.9 | 2172.4 | 2173.4 | 2168.9 | 2156.4 | 2131.9 | 2084.9 | 2017.4 | 1922.4 | 1794.9 | 1679.9 |
| 27.5° | 2018.9 | 2035.4 | 2056.4 | 2070.4 | 2092.9 | 2107.9 | 2092.9 | 2050.4 | 1972.4 | 1858.4 | 1716.9 |
| 30° | 1773.9 | 1753.9 | 1803.4 | 1865.9 | 1908.4 | 1983.4 | 2025.4 | 2027.9 | 1988.4 | 1893.9 | 1756.9 |
| 32.5° | 1433.9 | 1466.4 | 1481.4 | 1561.9 | 1667.4 | 1753.9 | 1847.9 | 1931.4 | 1950.9 | 1895.9 | 1780.4 |
| 35° | 1167.0 | 1194.5 | 1234.4 | 1274.4 | 1374.4 | 1460.4 | 1607.4 | 1735.4 | 1837.4 | 1850.9 | 1777.4 |
| 37.5° | 970.0 | 986.0 | 1010.5 | 1053.0 | 1121.5 | 1227.9 | 1344.4 | 1510.9 | 1651.4 | 1750.4 | 1740.4 |
| 40° | 822.0 | 826.0 | 854.5 | 885.0 | 938.0 | 1022.0 | 1124.5 | 1267.4 | 1444.4 | 1597.9 | 1661.9 |
| 42.5° | 711.0 | 721.0 | 729.0 | 758.0 | 797.5 | 855.5 | 949.0 | 1061.0 | 1219.5 | 1401.9 | 1542.4 |
| 45° | 630.0 | 640.0 | 647.5 | 667.0 | 697.0 | 739.5 | 806.0 | 914.0 | 1037.5 | 1220.0 | 1388.4 |
| 47.5° | 574.0 | 573.0 | 579.5 | 595.0 | 616.5 | 650.5 | 699.5 | 771.5 | 890.0 | 1042.5 | 1219.0 |
| 50° | 513.0 | 521.0 | 523.0 | 534.5 | 550.5 | 574.0 | 613.0 | 672.0 | 765.0 | 895.0 | 1054.0 |
| 52.5° | 470.0 | 471.0 | 477.5 | 485.0 | 498.5 | 515.5 | 548.0 | 591.0 | 659.0 | 765.0 | 908.0 |
| 55° | 428.0 | 428.0 | 433.5 | 440.0 | 448.0 | 464.5 | 487.0 | 521.0 | 576.5 | 662.5 | 783.5 |
| 57.5° | 389.0 | 391.0 | 396.0 | 397.5 | 404.5 | 416.0 | 435.5 | 462.5 | 505.0 | 574.5 | 674.5 |
| 60° | 350.0 | 354.5 | 354.0 | 358.0 | 364.0 | 372.5 | 388.5 | 409.5 | 446.5 | 499.5 | 580.5 |
| 62.5° | 316.0 | 314.5 | 314.5 | 319.5 | 325.5 | 333.5 | 342.5 | 360.0 | 390.0 | 435.5 | 501.5 |
| 65° | 278.0 | 277.0 | 280.5 | 283.5 | 285.5 | 291.5 | 299.5 | 315.5 | 336.5 | 371.5 | 425.0 |
| 67.5° | 245.0 | 242.0 | 244.5 | 245.5 | 249.0 | 254.0 | 262.0 | 272.0 | 289.0 | 318.5 | 361.5 |
| 70° | 211.0 | 208.5 | 208.0 | 209.0 | 212.0 | 215.5 | 221.0 | 230.5 | 246.0 | 268.5 | 298.0 |
| 72.5° | 176.0 | 174.5 | 174.5 | 177.0 | 178.0 | 180.0 | 183.5 | 192.0 | 203.5 | 219.0 | 246.0 |
| 75° | 143.0 | 143.0 | 143.0 | 143.5 | 145.0 | 147.0 | 150.0 | 154.5 | 164.0 | 176.0 | 194.5 |
| 77.5° | 113.0 | 113.5 | 112.5 | 112.0 | 114.5 | 115.5 | 116.0 | 121.0 | 126.5 | 135.5 | 150.0 |
| 80° | 84.0 | 81.5 | 82.5 | 84.0 | 85.0 | 85.5 | 87.0 | 88.0 | 92.5 | 97.0 | 106.5 |
| 82.5° | 57.0 | 55.0 | 55.0 | 57.5 | 57.5 | 58.0 | 59.5 | 61.0 | 62.0 | 66.0 | 70.0 |
| 85° | 33.0 | 33.0 | 33.5 | 33.5 | 34.0 | 33.5 | 35.0 | 35.5 | 35.5 | 38.0 | 41.0 |
| 87.5° | 15.0 | 14.0 | 14.5 | 15.0 | 14.5 | 15.0 | 15.5 | 16.0 | 16.5 | 17.0 | 17.5 |
| 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: P333922

CATALOG NUMBER: S123DP-S775D835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 |
| 2.5° | 1072.0 | 1068.0 | 1064.0 | 1057.0 | 1051.0 | 1042.5 | 1040.0 | 1037.0 | 1028.0 | 1020.0 | 1014.0 |
| 5° | 1129.0 | 1117.0 | 1099.5 | 1083.5 | 1070.5 | 1053.0 | 1043.0 | 1032.5 | 1017.5 | 1004.0 | 993.0 |
| 7.5° | 1183.5 | 1162.5 | 1138.0 | 1111.5 | 1086.0 | 1061.5 | 1042.0 | 1024.5 | 1005.0 | 986.0 | 971.5 |
| 10° | 1250.9 | 1217.0 | 1179.0 | 1138.0 | 1103.0 | 1069.0 | 1040.5 | 1015.5 | 988.5 | 965.0 | 945.5 |
| 12.5° | 1327.9 | 1273.4 | 1217.5 | 1165.5 | 1122.5 | 1072.0 | 1036.0 | 1002.5 | 971.0 | 941.5 | 919.0 |
| 15° | 1385.4 | 1321.4 | 1259.4 | 1191.0 | 1128.0 | 1069.0 | 1028.0 | 988.0 | 952.5 | 923.5 | 895.5 |
| 17.5° | 1442.4 | 1372.4 | 1293.4 | 1211.0 | 1137.0 | 1069.0 | 1013.0 | 970.0 | 926.5 | 891.5 | 864.5 |
| 20° | 1489.4 | 1406.9 | 1314.4 | 1227.9 | 1144.0 | 1066.0 | 1003.0 | 949.0 | 901.0 | 863.5 | 832.0 |
| 22.5° | 1529.9 | 1429.9 | 1333.4 | 1239.4 | 1143.5 | 1058.0 | 984.5 | 928.5 | 875.5 | 839.0 | 805.0 |
| 25° | 1555.4 | 1439.9 | 1343.9 | 1235.4 | 1131.0 | 1044.0 | 964.0 | 901.0 | 849.0 | 806.0 | 771.5 |
| 27.5° | 1579.4 | 1438.4 | 1329.9 | 1213.0 | 1116.0 | 1029.5 | 943.5 | 876.0 | 821.5 | 775.0 | 739.5 |
| 30° | 1603.4 | 1440.9 | 1305.4 | 1190.0 | 1092.0 | 1002.0 | 919.0 | 851.0 | 793.0 | 745.5 | 712.5 |
| 32.5° | 1618.4 | 1439.4 | 1282.9 | 1158.0 | 1054.0 | 977.0 | 892.5 | 821.5 | 761.5 | 715.0 | 683.5 |
| 35° | 1622.4 | 1430.9 | 1256.4 | 1111.5 | 1012.5 | 935.0 | 864.5 | 791.5 | 729.0 | 685.5 | 649.5 |
| 37.5° | 1613.9 | 1415.4 | 1227.4 | 1069.5 | 962.5 | 885.5 | 824.0 | 761.5 | 701.5 | 653.0 | 621.5 |
| 40° | 1586.4 | 1400.4 | 1192.5 | 1024.5 | 910.5 | 837.0 | 786.5 | 725.5 | 666.5 | 621.0 | 592.0 |
| 42.5° | 1533.9 | 1369.9 | 1154.0 | 974.5 | 856.5 | 783.0 | 737.5 | 689.0 | 634.0 | 592.0 | 563.0 |
| 45° | 1441.9 | 1322.9 | 1115.5 | 924.5 | 803.5 | 727.5 | 686.5 | 649.5 | 599.0 | 557.5 | 532.5 |
| 47.5° | 1324.4 | 1259.4 | 1060.0 | 872.0 | 748.0 | 674.5 | 631.5 | 601.0 | 561.5 | 528.0 | 503.5 |
| 50° | 1201.0 | 1177.5 | 1003.5 | 818.0 | 692.5 | 621.0 | 580.0 | 553.0 | 526.5 | 493.0 | 471.0 |
| 52.5° | 1058.5 | 1082.5 | 937.5 | 762.0 | 636.0 | 566.0 | 528.0 | 508.0 | 484.5 | 458.5 | 440.0 |
| 55° | 926.5 | 979.0 | 859.5 | 698.0 | 580.0 | 513.0 | 476.5 | 457.5 | 443.5 | 423.0 | 406.5 |
| 57.5° | 798.5 | 865.5 | 778.5 | 633.5 | 525.0 | 466.5 | 430.5 | 409.0 | 400.0 | 388.5 | 375.0 |
| 60° | 687.0 | 753.0 | 690.5 | 568.5 | 469.5 | 414.5 | 383.5 | 366.0 | 357.0 | 349.5 | 338.5 |
| 62.5° | 587.5 | 654.5 | 604.5 | 502.5 | 415.0 | 365.0 | 339.0 | 322.0 | 315.5 | 312.5 | 303.5 |
| 65° | 498.0 | 555.5 | 520.5 | 433.5 | 363.5 | 318.5 | 294.0 | 282.0 | 275.5 | 274.0 | 268.0 |
| 67.5° | 420.5 | 465.0 | 438.0 | 372.5 | 315.5 | 274.5 | 253.0 | 242.5 | 237.0 | 236.5 | 231.5 |
| 70° | 344.5 | 385.5 | 366.0 | 308.0 | 260.5 | 230.0 | 212.0 | 203.0 | 200.0 | 199.5 | 197.0 |
| 72.5° | 285.5 | 311.0 | 296.5 | 250.5 | 216.5 | 189.5 | 177.5 | 168.0 | 164.5 | 165.5 | 164.0 |
| 75° | 220.0 | 241.5 | 232.5 | 199.0 | 169.5 | 151.5 | 140.5 | 134.5 | 131.5 | 133.0 | 131.0 |
| 77.5° | 168.0 | 183.0 | 174.0 | 148.5 | 129.5 | 116.0 | 107.5 | 103.5 | 100.5 | 100.5 | 99.5 |
| 80° | 119.5 | 127.5 | 123.0 | 109.0 | 94.0 | 83.0 | 76.5 | 74.0 | 72.5 | 72.0 | 71.5 |
| 82.5° | 76.5 | 83.0 | 77.5 | 69.0 | 60.0 | 54.5 | 51.5 | 48.0 | 47.0 | 47.5 | 47.0 |
| 85° | 43.0 | 45.5 | 43.5 | 37.5 | 33.5 | 30.5 | 28.5 | 27.0 | 26.0 | 26.5 | 25.5 |
| 87.5° | 18.5 | 19.0 | 17.5 | 15.5 | 14.5 | 13.0 | 13.0 | 12.0 | 11.0 | 11.0 | 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: P333922

CATALOG NUMBER: S123DP-S775D835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 |
| 2.5° | 1010.5 | 1007.0 | 1002.0 | 994.5 | 988.5 | 979.0 | 979.0 | 980.5 | 980.5 | 980.0 | 979.0 |
| 5° | 984.0 | 976.5 | 967.5 | 957.0 | 946.0 | 935.0 | 933.0 | 929.0 | 926.0 | 924.0 | 921.5 |
| 7.5° | 957.0 | 944.5 | 932.0 | 917.5 | 905.0 | 894.5 | 887.0 | 880.5 | 876.5 | 872.0 | 868.5 |
| 10° | 929.5 | 913.0 | 897.5 | 882.0 | 865.0 | 851.5 | 843.0 | 837.0 | 832.5 | 828.5 | 826.5 |
| 12.5° | 897.0 | 877.5 | 860.0 | 845.5 | 826.5 | 812.5 | 804.5 | 802.5 | 797.0 | 787.5 | 782.5 |
| 15° | 865.5 | 848.0 | 827.5 | 805.0 | 796.0 | 779.0 | 769.5 | 765.0 | 762.0 | 755.5 | 753.5 |
| 17.5° | 839.5 | 816.0 | 792.5 | 776.0 | 759.5 | 746.0 | 740.5 | 734.5 | 730.5 | 724.5 | 723.0 |
| 20° | 807.0 | 786.5 | 765.5 | 747.5 | 730.0 | 715.0 | 710.5 | 706.5 | 702.5 | 700.0 | 698.0 |
| 22.5° | 774.0 | 753.5 | 737.0 | 720.5 | 701.5 | 693.0 | 688.0 | 683.5 | 681.0 | 679.5 | 677.5 |
| 25° | 743.5 | 725.5 | 706.0 | 691.0 | 676.0 | 669.5 | 666.5 | 664.0 | 662.0 | 659.5 | 659.0 |
| 27.5° | 716.5 | 696.5 | 680.0 | 665.5 | 654.5 | 649.0 | 645.5 | 644.0 | 644.0 | 645.0 | 645.5 |
| 30° | 685.5 | 667.5 | 654.5 | 642.5 | 632.5 | 627.5 | 627.0 | 627.0 | 629.0 | 629.5 | 630.5 |
| 32.5° | 657.0 | 643.0 | 630.0 | 618.5 | 611.5 | 608.5 | 611.0 | 611.0 | 612.5 | 614.0 | 616.0 |
| 35° | 629.5 | 616.5 | 606.5 | 596.5 | 590.0 | 591.5 | 592.5 | 593.5 | 596.0 | 599.0 | 601.0 |
| 37.5° | 603.5 | 591.5 | 581.0 | 573.0 | 569.0 | 572.0 | 574.5 | 576.5 | 579.5 | 582.0 | 584.0 |
| 40° | 575.0 | 566.5 | 556.5 | 549.5 | 550.5 | 552.0 | 554.0 | 556.5 | 559.0 | 560.5 | 562.5 |
| 42.5° | 548.5 | 539.5 | 532.5 | 527.0 | 528.5 | 530.5 | 531.5 | 532.5 | 535.5 | 538.5 | 539.5 |
| 45° | 521.5 | 514.5 | 507.5 | 504.0 | 505.0 | 506.0 | 507.0 | 508.5 | 511.0 | 513.0 | 513.5 |
| 47.5° | 491.0 | 486.0 | 481.5 | 477.5 | 479.5 | 479.0 | 480.5 | 483.5 | 484.5 | 485.5 | 488.5 |
| 50° | 462.0 | 457.5 | 452.0 | 451.0 | 451.0 | 451.0 | 451.5 | 455.5 | 455.5 | 457.5 | 459.5 |
| 52.5° | 430.0 | 427.5 | 424.5 | 422.5 | 421.5 | 421.5 | 424.0 | 425.5 | 426.5 | 429.5 | 431.5 |
| 55° | 398.5 | 395.5 | 392.5 | 391.0 | 390.0 | 391.0 | 395.0 | 396.0 | 398.5 | 400.0 | 401.5 |
| 57.5° | 365.5 | 363.5 | 361.0 | 360.0 | 360.0 | 360.5 | 363.5 | 366.0 | 366.5 | 371.5 | 373.5 |
| 60° | 333.0 | 329.5 | 327.5 | 327.5 | 326.5 | 331.0 | 330.0 | 335.0 | 336.0 | 339.0 | 342.5 |
| 62.5° | 299.5 | 294.5 | 294.0 | 294.0 | 296.0 | 296.5 | 298.5 | 300.0 | 303.0 | 307.0 | 309.5 |
| 65° | 263.0 | 260.5 | 264.0 | 263.5 | 262.5 | 265.5 | 265.5 | 268.0 | 271.0 | 274.5 | 280.0 |
| 67.5° | 229.0 | 227.0 | 228.0 | 227.5 | 229.0 | 231.0 | 232.5 | 234.5 | 238.0 | 242.0 | 245.5 |
| 70° | 194.5 | 196.0 | 193.5 | 195.5 | 197.0 | 197.5 | 198.5 | 201.5 | 205.5 | 208.0 | 212.0 |
| 72.5° | 161.0 | 160.5 | 161.5 | 162.0 | 163.5 | 164.5 | 165.5 | 169.0 | 173.5 | 175.5 | 178.5 |
| 75° | 129.0 | 128.5 | 130.0 | 130.0 | 132.5 | 133.5 | 134.5 | 136.0 | 140.0 | 143.0 | 145.5 |
| 77.5° | 100.0 | 100.5 | 100.0 | 102.0 | 101.0 | 101.5 | 104.5 | 106.0 | 106.5 | 113.0 | 114.0 |
| 80° | 71.0 | 72.0 | 72.5 | 73.0 | 73.5 | 72.5 | 76.0 | 77.5 | 77.5 | 81.0 | 83.5 |
| 82.5° | 46.0 | 46.5 | 48.0 | 48.5 | 48.5 | 50.0 | 49.5 | 50.5 | 52.0 | 53.0 | 56.5 |
| 85° | 25.5 | 27.0 | 27.5 | 27.0 | 27.5 | 26.5 | 28.0 | 28.5 | 29.0 | 29.0 | 29.0 |
| 87.5° | 10.0 | 10.5 | 10.0 | 10.5 | 10.0 | 10.5 | 10.5 | 9.5 | 9.5 | 11.0 | 9.0 |
| 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: P333922

CATALOG NUMBER: S123DP-S775D835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1032.0 | 1032.0 | 1032.0 | 1032.0 |
| 2.5° | 975.5 | 975.0 | 978.5 | 976.0 |
| 5° | 918.5 | 920.0 | 915.0 | 915.0 |
| 7.5° | 867.0 | 865.0 | 865.5 | 862.0 |
| 10° | 820.5 | 817.5 | 816.5 | 817.0 |
| 12.5° | 782.0 | 782.0 | 774.0 | 774.0 |
| 15° | 753.5 | 744.0 | 743.0 | 746.0 |
| 17.5° | 722.0 | 716.5 | 717.0 | 716.0 |
| 20° | 698.0 | 695.0 | 694.5 | 691.0 |
| 22.5° | 676.0 | 675.5 | 676.0 | 672.0 |
| 25° | 658.5 | 661.0 | 659.0 | 659.0 |
| 27.5° | 646.5 | 646.5 | 645.0 | 645.0 |
| 30° | 632.5 | 632.0 | 633.0 | 633.0 |
| 32.5° | 618.5 | 619.5 | 619.5 | 620.0 |
| 35° | 604.0 | 604.5 | 606.0 | 605.0 |
| 37.5° | 585.0 | 587.5 | 587.0 | 588.0 |
| 40° | 563.0 | 564.5 | 564.0 | 564.0 |
| 42.5° | 540.5 | 541.5 | 540.0 | 539.0 |
| 45° | 515.5 | 514.5 | 516.0 | 514.0 |
| 47.5° | 488.0 | 488.5 | 489.0 | 491.0 |
| 50° | 460.5 | 463.5 | 463.5 | 463.0 |
| 52.5° | 433.5 | 434.5 | 437.0 | 437.0 |
| 55° | 405.5 | 406.5 | 407.5 | 408.0 |
| 57.5° | 377.0 | 376.5 | 378.5 | 379.0 |
| 60° | 346.5 | 346.5 | 350.5 | 352.0 |
| 62.5° | 314.0 | 316.0 | 320.0 | 317.0 |
| 65° | 282.5 | 286.5 | 286.0 | 288.0 |
| 67.5° | 249.5 | 252.0 | 256.0 | 256.0 |
| 70° | 216.0 | 218.5 | 220.5 | 222.0 |
| 72.5° | 183.5 | 184.5 | 190.0 | 187.0 |
| 75° | 149.0 | 152.5 | 155.5 | 154.0 |
| 77.5° | 116.0 | 120.5 | 121.5 | 120.0 |
| 80° | 87.0 | 86.5 | 89.5 | 89.0 |
| 82.5° | 58.0 | 57.5 | 58.5 | 59.0 |
| 85° | 31.0 | 32.5 | 30.5 | 30.0 |
| 87.5° | 9.0 | 9.0 | 8.5 | 8.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)