

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: P332642-935

Luminaire Tested: **S124DIP-S1020D590U935-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332642-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S1020D590U935-4F0-1E-UDD-F4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5632.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

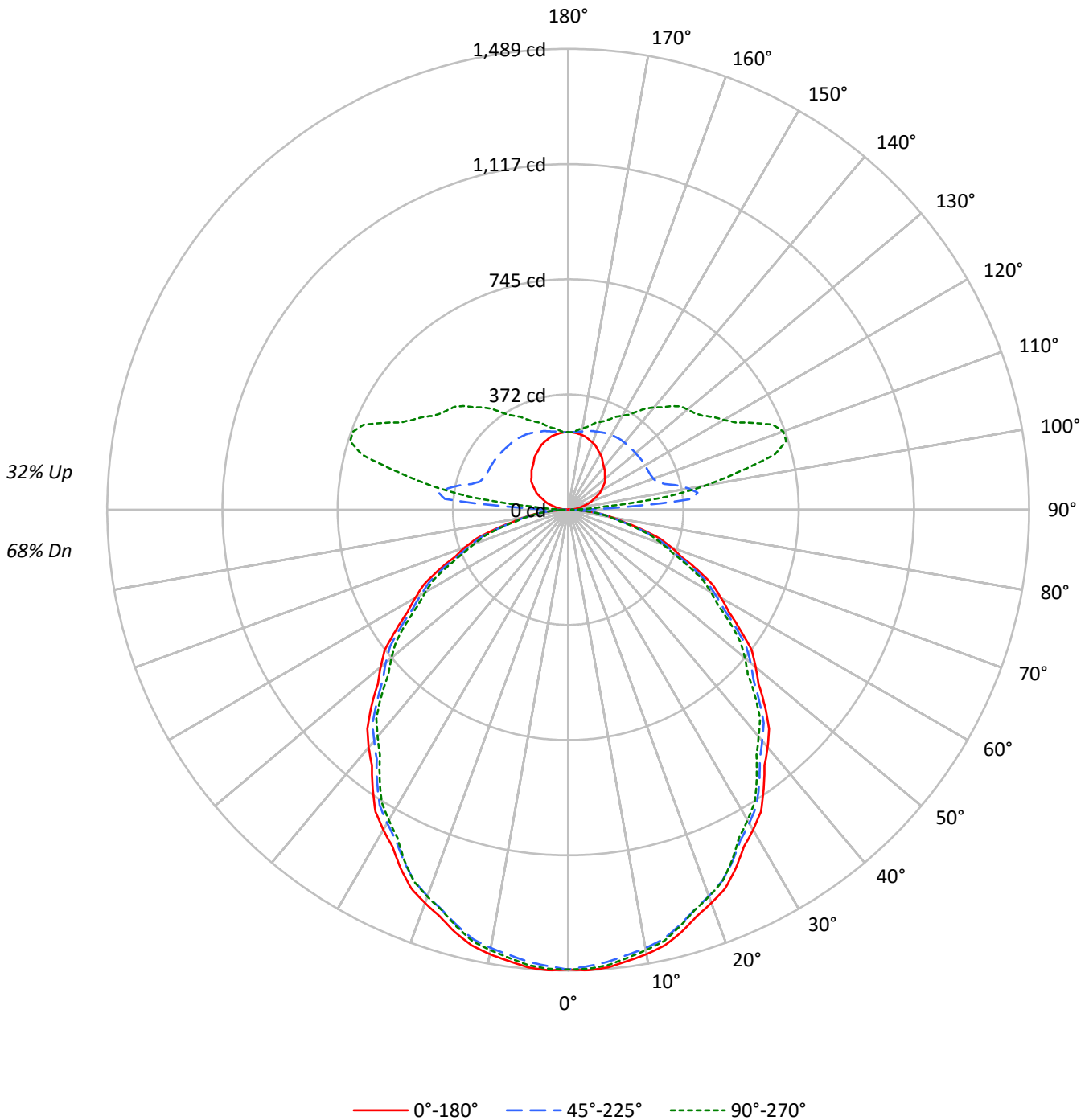
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332642-935

CATALOG NUMBER: S124DIP-S1020D590U935-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332642-935

CATALOG NUMBER: S124DIP-S1020D590U935-4F0-1E-UDD-F4

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 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 | 68 |
| 1 | 102 | 97 | 93 | 90 | 96 | 92 | 88 | 85 | 82 | 79 | 77 | 72 | 70 | 69 | 64 | 62 | 61 | 57 |
| 2 | 93 | 85 | 79 | 73 | 87 | 80 | 75 | 70 | 72 | 67 | 63 | 64 | 60 | 57 | 56 | 54 | 51 | 48 |
| 3 | 85 | 75 | 67 | 61 | 79 | 71 | 64 | 58 | 63 | 58 | 53 | 56 | 52 | 48 | 50 | 47 | 44 | 40 |
| 4 | 77 | 66 | 58 | 52 | 73 | 63 | 55 | 50 | 56 | 50 | 46 | 50 | 45 | 42 | 45 | 41 | 38 | 35 |
| 5 | 71 | 59 | 51 | 44 | 67 | 56 | 48 | 43 | 50 | 44 | 39 | 45 | 40 | 36 | 40 | 36 | 33 | 30 |
| 6 | 66 | 53 | 45 | 39 | 62 | 50 | 43 | 37 | 46 | 39 | 34 | 41 | 36 | 32 | 36 | 32 | 29 | 26 |
| 7 | 61 | 48 | 40 | 34 | 57 | 46 | 38 | 33 | 41 | 35 | 30 | 37 | 32 | 28 | 33 | 29 | 26 | 23 |
| 8 | 56 | 44 | 36 | 30 | 53 | 42 | 34 | 29 | 38 | 32 | 27 | 34 | 29 | 25 | 31 | 26 | 23 | 21 |
| 9 | 53 | 40 | 32 | 27 | 50 | 38 | 31 | 26 | 35 | 29 | 24 | 31 | 26 | 23 | 28 | 24 | 21 | 19 |
| 10 | 49 | 37 | 29 | 24 | 47 | 35 | 28 | 24 | 32 | 26 | 22 | 29 | 24 | 21 | 26 | 22 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11994 | 11994 | 11994 |
| 5° | 12030 | 11885 | 11972 |
| 10° | 11954 | 11788 | 11847 |
| 15° | 11810 | 11621 | 11651 |
| 20° | 11618 | 11413 | 11424 |
| 25° | 11399 | 11176 | 11144 |
| 30° | 11130 | 10897 | 10797 |
| 35° | 10852 | 10606 | 10465 |
| 40° | 10564 | 10275 | 10086 |
| 45° | 10261 | 9949 | 9758 |
| 50° | 9928 | 9658 | 9359 |
| 55° | 9568 | 9282 | 8981 |
| 60° | 9206 | 8861 | 8591 |
| 65° | 8800 | 8458 | 8118 |
| 70° | 8344 | 7924 | 7615 |
| 75° | 7648 | 7277 | 7093 |
| 80° | 6811 | 6527 | 6365 |
| 85° | 5956 | 5734 | 5622 |



TEST NUMBER: P332642-935

CATALOG NUMBER: S124DIP-S1020D590U935-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 139.9 | 2.5 |
| 10°-20° | 394.2 | 7.0 |
| 20°-30° | 580.2 | 10.3 |
| 30°-40° | 674.5 | 12.0 |
| 40°-50° | 674.5 | 12.0 |
| 50°-60° | 590.0 | 10.5 |
| 60°-70° | 438.2 | 7.8 |
| 70°-80° | 248.9 | 4.4 |
| 80°-90° | 73.2 | 1.3 |
| 90°-100° | 180.6 | 3.2 |
| 100°-110° | 375.8 | 6.7 |
| 110°-120° | 336.6 | 6.0 |
| 120°-130° | 283.1 | 5.0 |
| 130°-140° | 236.1 | 4.2 |
| 140°-150° | 180.4 | 3.2 |
| 150°-160° | 126.8 | 2.3 |
| 160°-170° | 74.6 | 1.3 |
| 170°-180° | 24.3 | 0.4 |
| 0°-30° | 1114.3 | 19.8 |
| 0°-40° | 1788.8 | 31.8 |
| 0°-60° | 3053.4 | 54.2 |
| 0°-90° | 3813.8 | 67.7 |
| 90°-120° | 893.0 | 15.9 |
| 90°-150° | 1592.6 | 28.3 |
| 90°-180° | 1818.0 | 32.3 |
| 0°-180° | 5632.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1486 | 1486 | 1486 | 1486 | 1486 | |
| 5° | 1484 | 1479 | 1467 | 1479 | 1477 | 141 |
| 15° | 1413 | 1408 | 1390 | 1397 | 1394 | 398 |
| 25° | 1280 | 1271 | 1255 | 1256 | 1251 | 588 |
| 35° | 1101 | 1092 | 1076 | 1068 | 1062 | 688 |
| 45° | 899 | 890 | 871 | 859 | 855 | 693 |
| 55° | 680 | 675 | 660 | 646 | 638 | 609 |
| 65° | 461 | 454 | 443 | 431 | 425 | 456 |
| 75° | 245 | 239 | 233 | 229 | 227 | 261 |
| 85° | 64 | 64 | 62 | 62 | 61 | 71 |
| 90° | 0 | 4 | 9 | 10 | 10 | 4 |
| 95° | 16 | 51 | 400 | 198 | 120 | 18 |
| 105° | 57 | 83 | 322 | 694 | 691 | 61 |
| 115° | 101 | 127 | 287 | 552 | 664 | 100 |
| 125° | 141 | 168 | 286 | 470 | 529 | 125 |
| 135° | 168 | 199 | 283 | 417 | 474 | 129 |
| 145° | 193 | 221 | 282 | 352 | 386 | 121 |
| 155° | 220 | 237 | 274 | 310 | 324 | 101 |
| 165° | 239 | 247 | 263 | 278 | 282 | 68 |
| 175° | 250 | 250 | 252 | 255 | 254 | 24 |
| 180° | 250 | 250 | 250 | 250 | 250 | |



TEST NUMBER: P332642-935

CATALOG NUMBER: S124DIP-S1020D590U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 |
| 2.5° | 1489.4 | 1488.8 | 1488.2 | 1487.5 | 1486.9 | 1485.4 | 1483.1 | 1480.7 | 1478.4 | 1476.1 | 1478.3 |
| 5° | 1484.5 | 1483.4 | 1482.4 | 1481.3 | 1480.2 | 1478.3 | 1475.3 | 1472.4 | 1469.6 | 1466.6 | 1469.6 |
| 7.5° | 1470.7 | 1469.6 | 1468.5 | 1467.5 | 1466.5 | 1464.3 | 1461.0 | 1457.8 | 1454.6 | 1451.4 | 1453.7 |
| 10° | 1458.3 | 1457.2 | 1456.1 | 1455.1 | 1454.1 | 1451.8 | 1448.4 | 1444.9 | 1441.5 | 1438.0 | 1440.1 |
| 12.5° | 1442.1 | 1441.1 | 1439.9 | 1438.9 | 1437.9 | 1435.5 | 1431.8 | 1428.2 | 1424.5 | 1420.9 | 1423.2 |
| 15° | 1413.1 | 1412.0 | 1410.9 | 1409.9 | 1408.8 | 1406.3 | 1402.3 | 1398.4 | 1394.4 | 1390.4 | 1392.0 |
| 17.5° | 1378.0 | 1376.7 | 1375.4 | 1374.1 | 1372.8 | 1370.2 | 1366.4 | 1362.7 | 1358.9 | 1355.2 | 1356.2 |
| 20° | 1352.3 | 1351.0 | 1349.7 | 1348.3 | 1347.0 | 1344.4 | 1340.4 | 1336.4 | 1332.5 | 1328.5 | 1329.3 |
| 22.5° | 1324.7 | 1322.9 | 1321.2 | 1319.5 | 1317.8 | 1314.8 | 1310.9 | 1306.9 | 1303.0 | 1299.0 | 1300.5 |
| 25° | 1279.7 | 1277.9 | 1276.0 | 1274.1 | 1272.3 | 1269.5 | 1265.8 | 1262.1 | 1258.4 | 1254.7 | 1255.0 |
| 27.5° | 1228.3 | 1226.4 | 1224.4 | 1222.5 | 1220.6 | 1218.0 | 1214.5 | 1211.1 | 1207.6 | 1204.2 | 1203.6 |
| 30° | 1194.0 | 1191.9 | 1189.7 | 1187.7 | 1185.5 | 1182.8 | 1179.3 | 1175.9 | 1172.4 | 1169.0 | 1167.9 |
| 32.5° | 1157.8 | 1155.9 | 1154.0 | 1152.1 | 1150.2 | 1147.4 | 1143.8 | 1140.1 | 1136.4 | 1132.8 | 1131.5 |
| 35° | 1101.1 | 1099.3 | 1097.4 | 1095.6 | 1093.7 | 1091.0 | 1087.3 | 1083.6 | 1079.9 | 1076.2 | 1074.3 |
| 37.5° | 1041.4 | 1039.7 | 1038.0 | 1036.3 | 1034.6 | 1031.8 | 1027.8 | 1023.8 | 1019.9 | 1015.9 | 1013.9 |
| 40° | 1002.4 | 1000.2 | 998.1 | 996.0 | 993.9 | 990.8 | 986.9 | 982.9 | 979.0 | 975.0 | 972.3 |
| 42.5° | 960.4 | 959.2 | 957.9 | 956.7 | 955.4 | 952.5 | 948.1 | 943.7 | 939.4 | 935.0 | 931.9 |
| 45° | 898.8 | 896.9 | 895.1 | 893.2 | 891.4 | 888.3 | 884.1 | 879.9 | 875.6 | 871.4 | 868.5 |
| 47.5° | 834.2 | 833.0 | 831.7 | 830.4 | 829.1 | 826.6 | 822.7 | 818.7 | 814.9 | 810.9 | 807.6 |
| 50° | 790.5 | 789.4 | 788.3 | 787.3 | 786.2 | 783.9 | 780.2 | 776.4 | 772.7 | 769.0 | 765.3 |
| 52.5° | 747.6 | 746.3 | 745.0 | 743.8 | 742.5 | 739.9 | 736.0 | 732.1 | 728.1 | 724.3 | 721.0 |
| 55° | 679.8 | 678.9 | 678.1 | 677.3 | 676.6 | 674.3 | 670.6 | 666.9 | 663.2 | 659.5 | 656.3 |
| 57.5° | 615.0 | 614.1 | 613.2 | 612.3 | 611.4 | 609.1 | 605.5 | 601.8 | 598.1 | 594.5 | 591.5 |
| 60° | 570.2 | 568.9 | 567.6 | 566.3 | 564.9 | 562.6 | 559.1 | 555.7 | 552.2 | 548.8 | 546.4 |
| 62.5° | 526.4 | 525.3 | 524.2 | 523.1 | 521.9 | 519.6 | 515.9 | 512.3 | 508.6 | 505.0 | 502.8 |
| 65° | 460.7 | 459.3 | 458.1 | 456.8 | 455.4 | 453.4 | 450.7 | 448.2 | 445.5 | 442.8 | 440.2 |
| 67.5° | 394.5 | 393.3 | 392.1 | 390.9 | 389.6 | 387.8 | 385.2 | 382.7 | 380.1 | 377.6 | 375.1 |
| 70° | 353.5 | 351.7 | 349.8 | 348.0 | 346.1 | 344.1 | 342.1 | 339.9 | 337.9 | 335.7 | 333.6 |
| 72.5° | 309.8 | 307.9 | 306.1 | 304.2 | 302.4 | 300.6 | 298.9 | 297.2 | 295.5 | 293.8 | 292.1 |
| 75° | 245.2 | 243.9 | 242.5 | 241.3 | 240.0 | 238.6 | 237.3 | 236.0 | 234.6 | 233.3 | 232.3 |
| 77.5° | 183.6 | 183.0 | 182.4 | 181.8 | 181.2 | 180.4 | 179.2 | 178.1 | 176.8 | 175.7 | 175.4 |
| 80° | 146.5 | 145.6 | 144.8 | 144.0 | 143.3 | 142.6 | 142.1 | 141.5 | 141.0 | 140.4 | 139.9 |
| 82.5° | 110.2 | 109.9 | 109.5 | 109.1 | 108.7 | 108.5 | 108.4 | 108.3 | 108.2 | 108.1 | 107.8 |
| 85° | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 | 64.1 | 63.5 | 62.9 | 62.4 | 61.9 | 61.9 |
| 87.5° | 24.9 | 24.9 | 25.0 | 24.8 | 24.7 | 24.5 | 24.9 | 24.6 | 24.6 | 24.6 | 24.5 |
| 90° | 0.5 | 1.5 | 2.9 | 3.4 | 4.0 | 4.0 | 6.9 | 6.9 | 7.8 | 8.9 | 8.4 |
| 92.5° | 5.6 | 8.2 | 12.7 | 18.8 | 25.9 | 36.2 | 61.1 | 99.2 | 136.4 | 155.8 | 129.8 |
| 95° | 16.2 | 17.7 | 22.6 | 29.0 | 40.7 | 61.4 | 104.1 | 184.7 | 302.0 | 400.3 | 411.6 |
| 97.5° | 29.1 | 29.1 | 33.3 | 39.2 | 49.3 | 66.6 | 99.5 | 166.0 | 282.8 | 421.6 | 517.1 |
| 100° | 37.4 | 37.4 | 40.7 | 46.7 | 56.0 | 71.7 | 100.7 | 156.2 | 256.4 | 394.9 | 520.6 |
| 102.5° | 45.2 | 46.0 | 49.0 | 54.5 | 63.5 | 78.4 | 104.6 | 153.4 | 238.7 | 361.5 | 491.1 |
| 105° | 57.4 | 59.0 | 61.4 | 67.3 | 76.1 | 90.4 | 113.9 | 154.7 | 223.5 | 322.2 | 437.6 |
| 107.5° | 71.0 | 72.0 | 74.5 | 80.8 | 89.2 | 103.2 | 124.8 | 162.0 | 220.8 | 300.2 | 394.4 |
| 110° | 80.1 | 81.0 | 83.5 | 89.4 | 98.2 | 111.5 | 133.1 | 167.5 | 221.5 | 292.7 | 372.8 |



TEST NUMBER: P332642-935

CATALOG NUMBER: S124DIP-S1020D590U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 88.7 | 89.7 | 92.6 | 98.1 | 106.9 | 120.1 | 140.9 | 173.4 | 223.9 | 289.2 | 360.6 |
| 115° | 101.2 | 102.6 | 106.1 | 111.0 | 120.4 | 133.6 | 153.3 | 182.7 | 228.4 | 287.3 | 349.2 |
| 117.5° | 114.2 | 115.5 | 118.6 | 124.0 | 132.7 | 146.5 | 165.1 | 192.3 | 233.2 | 286.8 | 344.1 |
| 120° | 122.8 | 123.8 | 127.2 | 132.6 | 140.9 | 154.7 | 173.4 | 198.9 | 236.8 | 286.8 | 341.4 |
| 122.5° | 130.6 | 131.6 | 135.1 | 140.1 | 149.2 | 162.6 | 181.2 | 205.2 | 240.3 | 286.5 | 338.2 |
| 125° | 140.9 | 142.9 | 145.9 | 151.3 | 160.6 | 174.4 | 192.0 | 214.6 | 245.6 | 285.9 | 333.0 |
| 127.5° | 150.1 | 151.7 | 155.2 | 161.4 | 171.1 | 184.9 | 202.1 | 222.8 | 249.8 | 284.7 | 326.1 |
| 130° | 155.2 | 157.1 | 161.1 | 168.5 | 177.8 | 192.0 | 208.7 | 227.9 | 253.0 | 284.4 | 321.7 |
| 132.5° | 160.3 | 161.9 | 167.0 | 174.0 | 184.1 | 197.5 | 214.2 | 233.0 | 255.7 | 284.0 | 317.8 |
| 135° | 167.5 | 169.4 | 174.4 | 182.7 | 193.0 | 205.8 | 222.0 | 239.7 | 259.8 | 283.4 | 311.9 |
| 137.5° | 174.7 | 176.5 | 181.9 | 189.9 | 200.6 | 212.8 | 227.9 | 244.4 | 262.3 | 283.3 | 306.8 |
| 140° | 179.8 | 181.2 | 186.7 | 195.0 | 205.3 | 217.1 | 231.9 | 247.5 | 264.2 | 282.9 | 304.0 |
| 142.5° | 185.3 | 186.8 | 191.7 | 199.7 | 209.7 | 221.0 | 235.4 | 249.9 | 265.8 | 282.9 | 301.7 |
| 145° | 193.0 | 194.5 | 199.4 | 206.3 | 215.6 | 226.4 | 239.2 | 252.4 | 266.7 | 281.9 | 297.6 |
| 147.5° | 201.7 | 202.2 | 206.6 | 213.6 | 221.4 | 231.2 | 243.1 | 254.7 | 267.2 | 280.2 | 294.0 |
| 150° | 207.2 | 207.8 | 211.7 | 217.6 | 225.0 | 234.3 | 245.1 | 255.9 | 267.2 | 279.0 | 291.3 |
| 152.5° | 212.4 | 212.5 | 216.4 | 221.9 | 228.5 | 237.0 | 246.7 | 256.7 | 266.4 | 277.0 | 288.1 |
| 155° | 219.6 | 220.1 | 223.0 | 227.9 | 233.3 | 240.6 | 249.0 | 257.4 | 265.2 | 274.1 | 283.4 |
| 157.5° | 226.5 | 226.5 | 229.3 | 233.1 | 237.8 | 243.6 | 250.7 | 257.4 | 264.0 | 271.0 | 278.6 |
| 160° | 230.8 | 230.8 | 232.8 | 236.3 | 240.1 | 245.6 | 251.5 | 257.4 | 262.8 | 268.6 | 275.1 |
| 162.5° | 234.8 | 234.4 | 235.9 | 239.0 | 242.5 | 246.8 | 252.3 | 257.4 | 261.6 | 266.3 | 271.9 |
| 165° | 239.2 | 239.2 | 240.1 | 242.6 | 245.1 | 248.1 | 252.4 | 256.4 | 259.3 | 262.8 | 266.7 |
| 167.5° | 243.6 | 243.1 | 243.6 | 245.5 | 246.8 | 249.1 | 252.4 | 255.2 | 257.0 | 259.2 | 262.0 |
| 170° | 245.6 | 245.1 | 245.6 | 247.0 | 248.1 | 249.5 | 251.9 | 254.4 | 255.4 | 256.8 | 258.8 |
| 172.5° | 247.5 | 247.0 | 247.1 | 248.2 | 248.8 | 249.9 | 251.6 | 253.7 | 253.8 | 254.5 | 256.1 |
| 175° | 249.5 | 249.0 | 249.0 | 249.5 | 250.0 | 250.0 | 251.0 | 252.4 | 251.9 | 251.9 | 253.0 |
| 177.5° | 250.4 | 250.0 | 249.6 | 250.0 | 250.0 | 250.0 | 250.4 | 251.2 | 250.4 | 250.4 | 250.8 |
| 180° | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 |



TEST NUMBER: P332642-935

CATALOG NUMBER: S124DIP-S1020D590U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 |
| 2.5° | 1480.3 | 1482.5 | 1484.6 | 1485.6 | 1485.3 | 1485.1 | 1484.9 | 1484.7 |
| 5° | 1472.4 | 1475.3 | 1478.3 | 1479.5 | 1478.9 | 1478.3 | 1477.8 | 1477.3 |
| 7.5° | 1456.0 | 1458.4 | 1460.7 | 1461.7 | 1461.4 | 1461.0 | 1460.7 | 1460.4 |
| 10° | 1442.3 | 1444.4 | 1446.5 | 1447.3 | 1446.7 | 1446.2 | 1445.7 | 1445.2 |
| 12.5° | 1425.6 | 1427.9 | 1430.2 | 1431.0 | 1430.3 | 1429.5 | 1428.7 | 1428.1 |
| 15° | 1393.6 | 1395.2 | 1396.8 | 1397.1 | 1396.4 | 1395.6 | 1394.8 | 1394.0 |
| 17.5° | 1357.2 | 1358.2 | 1359.2 | 1359.4 | 1358.9 | 1358.4 | 1357.9 | 1357.3 |
| 20° | 1330.1 | 1330.9 | 1331.7 | 1331.8 | 1331.3 | 1330.8 | 1330.2 | 1329.7 |
| 22.5° | 1301.8 | 1303.3 | 1304.7 | 1304.9 | 1304.0 | 1303.0 | 1302.1 | 1301.1 |
| 25° | 1255.3 | 1255.5 | 1255.8 | 1255.3 | 1254.3 | 1253.3 | 1252.2 | 1251.1 |
| 27.5° | 1203.0 | 1202.3 | 1201.7 | 1200.8 | 1199.4 | 1198.1 | 1196.7 | 1195.4 |
| 30° | 1166.9 | 1165.8 | 1164.8 | 1163.6 | 1162.3 | 1160.9 | 1159.6 | 1158.3 |
| 32.5° | 1130.2 | 1129.0 | 1127.7 | 1126.4 | 1125.1 | 1123.8 | 1122.5 | 1121.1 |
| 35° | 1072.5 | 1070.6 | 1068.8 | 1067.1 | 1065.8 | 1064.5 | 1063.2 | 1061.9 |
| 37.5° | 1011.8 | 1009.9 | 1007.9 | 1006.0 | 1004.3 | 1002.5 | 1000.7 | 999.0 |
| 40° | 969.7 | 967.0 | 964.4 | 962.4 | 961.0 | 959.8 | 958.5 | 957.1 |
| 42.5° | 928.8 | 925.7 | 922.6 | 920.7 | 919.8 | 918.9 | 918.0 | 917.1 |
| 45° | 865.6 | 862.6 | 859.7 | 857.9 | 857.1 | 856.4 | 855.5 | 854.7 |
| 47.5° | 804.3 | 801.1 | 797.8 | 795.1 | 793.2 | 791.1 | 789.1 | 787.1 |
| 50° | 761.6 | 757.9 | 754.2 | 751.6 | 749.9 | 748.4 | 746.8 | 745.2 |
| 52.5° | 717.7 | 714.4 | 711.1 | 708.5 | 706.5 | 704.5 | 702.5 | 700.4 |
| 55° | 653.2 | 650.0 | 646.8 | 644.5 | 642.8 | 641.3 | 639.6 | 638.1 |
| 57.5° | 588.5 | 585.5 | 582.5 | 580.1 | 578.6 | 577.1 | 575.6 | 574.0 |
| 60° | 544.1 | 541.7 | 539.2 | 537.4 | 536.1 | 534.8 | 533.5 | 532.1 |
| 62.5° | 500.7 | 498.4 | 496.3 | 494.6 | 493.3 | 491.9 | 490.6 | 489.3 |
| 65° | 437.6 | 434.9 | 432.2 | 430.2 | 429.0 | 427.7 | 426.3 | 425.0 |
| 67.5° | 372.6 | 370.0 | 367.5 | 366.0 | 365.6 | 365.2 | 364.9 | 364.5 |
| 70° | 331.5 | 329.3 | 327.3 | 325.8 | 325.0 | 324.2 | 323.4 | 322.6 |
| 72.5° | 290.4 | 288.7 | 287.1 | 285.8 | 285.0 | 284.2 | 283.4 | 282.6 |
| 75° | 231.2 | 230.1 | 229.1 | 228.4 | 228.2 | 227.9 | 227.6 | 227.4 |
| 77.5° | 175.0 | 174.8 | 174.4 | 173.9 | 173.2 | 172.5 | 171.9 | 171.2 |
| 80° | 139.4 | 138.9 | 138.4 | 137.9 | 137.7 | 137.4 | 137.2 | 136.9 |
| 82.5° | 107.5 | 107.1 | 106.9 | 106.5 | 106.2 | 106.0 | 105.7 | 105.5 |
| 85° | 61.9 | 61.9 | 61.9 | 61.7 | 61.5 | 61.2 | 61.0 | 60.7 |
| 87.5° | 24.6 | 24.7 | 24.8 | 24.8 | 24.9 | 25.1 | 24.9 | 24.9 |
| 90° | 8.9 | 9.3 | 9.8 | 9.8 | 10.3 | 10.8 | 10.3 | 10.3 |
| 92.5° | 96.4 | 72.6 | 57.8 | 48.0 | 42.1 | 39.5 | 37.8 | 37.8 |
| 95° | 363.9 | 287.8 | 222.0 | 174.4 | 150.3 | 135.1 | 126.2 | 119.9 |
| 97.5° | 537.7 | 509.5 | 461.4 | 410.1 | 374.9 | 345.3 | 330.5 | 320.3 |
| 100° | 592.4 | 602.2 | 578.1 | 541.7 | 499.0 | 469.1 | 454.3 | 450.4 |
| 102.5° | 589.6 | 638.3 | 645.3 | 630.2 | 603.9 | 582.2 | 566.7 | 563.5 |
| 105° | 550.1 | 635.1 | 683.7 | 703.9 | 704.8 | 700.9 | 694.0 | 691.0 |
| 107.5° | 494.0 | 584.4 | 653.0 | 696.7 | 721.0 | 732.2 | 737.1 | 738.4 |
| 110° | 460.2 | 545.2 | 616.4 | 670.5 | 705.3 | 725.9 | 734.8 | 739.2 |



TEST NUMBER: P332642-935

CATALOG NUMBER: S124DIP-S1020D590U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 435.5 | 510.6 | 577.9 | 631.9 | 671.5 | 696.5 | 708.9 | 716.0 |
| 115° | 410.6 | 471.1 | 528.5 | 575.7 | 614.4 | 643.9 | 659.6 | 663.6 |
| 117.5° | 398.4 | 448.4 | 493.6 | 533.6 | 566.7 | 591.4 | 607.3 | 610.4 |
| 120° | 393.0 | 438.6 | 477.9 | 512.7 | 540.8 | 562.4 | 575.1 | 580.6 |
| 122.5° | 388.2 | 432.3 | 468.0 | 498.6 | 522.3 | 540.8 | 551.6 | 557.0 |
| 125° | 380.1 | 422.4 | 456.2 | 483.3 | 502.9 | 517.2 | 526.5 | 529.4 |
| 127.5° | 370.3 | 410.7 | 444.5 | 470.1 | 489.9 | 502.6 | 510.4 | 513.3 |
| 130° | 362.5 | 401.3 | 434.6 | 460.7 | 480.9 | 493.1 | 501.0 | 503.9 |
| 132.5° | 354.2 | 390.6 | 423.3 | 449.3 | 469.1 | 482.9 | 490.3 | 493.4 |
| 135° | 342.9 | 374.8 | 404.7 | 429.3 | 448.9 | 462.7 | 470.5 | 473.5 |
| 137.5° | 332.5 | 359.6 | 384.8 | 407.0 | 425.3 | 438.9 | 445.4 | 448.9 |
| 140° | 326.6 | 349.7 | 371.8 | 392.4 | 409.7 | 420.4 | 427.3 | 431.3 |
| 142.5° | 321.2 | 341.5 | 360.4 | 378.3 | 393.5 | 403.6 | 409.7 | 412.3 |
| 145° | 313.3 | 330.0 | 344.8 | 358.5 | 370.8 | 379.2 | 384.1 | 386.5 |
| 147.5° | 306.9 | 320.2 | 332.0 | 342.9 | 351.9 | 359.0 | 362.7 | 363.7 |
| 150° | 303.1 | 314.4 | 324.2 | 333.0 | 340.9 | 347.2 | 350.2 | 350.7 |
| 152.5° | 298.7 | 308.4 | 317.5 | 324.8 | 331.4 | 336.7 | 338.4 | 338.9 |
| 155° | 292.2 | 300.1 | 307.5 | 313.3 | 318.3 | 322.2 | 323.6 | 323.6 |
| 157.5° | 285.2 | 291.9 | 298.0 | 302.7 | 306.5 | 309.4 | 310.3 | 310.3 |
| 160° | 280.9 | 286.4 | 291.7 | 295.7 | 298.6 | 301.6 | 302.0 | 302.0 |
| 162.5° | 276.6 | 281.2 | 285.4 | 289.0 | 291.2 | 294.1 | 294.6 | 294.2 |
| 165° | 270.6 | 273.5 | 277.0 | 279.5 | 281.5 | 283.4 | 282.9 | 282.4 |
| 167.5° | 264.8 | 267.1 | 269.8 | 271.3 | 272.3 | 273.5 | 273.5 | 273.1 |
| 170° | 261.3 | 262.8 | 264.8 | 266.2 | 267.2 | 267.7 | 267.2 | 267.2 |
| 172.5° | 258.1 | 259.2 | 260.5 | 261.5 | 262.1 | 262.6 | 262.1 | 261.3 |
| 175° | 253.9 | 254.4 | 255.4 | 255.4 | 255.4 | 256.4 | 255.4 | 254.4 |
| 177.5° | 251.2 | 251.6 | 251.6 | 251.9 | 251.6 | 251.9 | 251.2 | 250.4 |
| 180° | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 |

(END OF REPORT)