

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: P332629-935

Luminaire Tested: **S124DIP-S1020D365U935-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332629-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S1020D365U935-4F0-1E-UDD-D1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4716.4 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

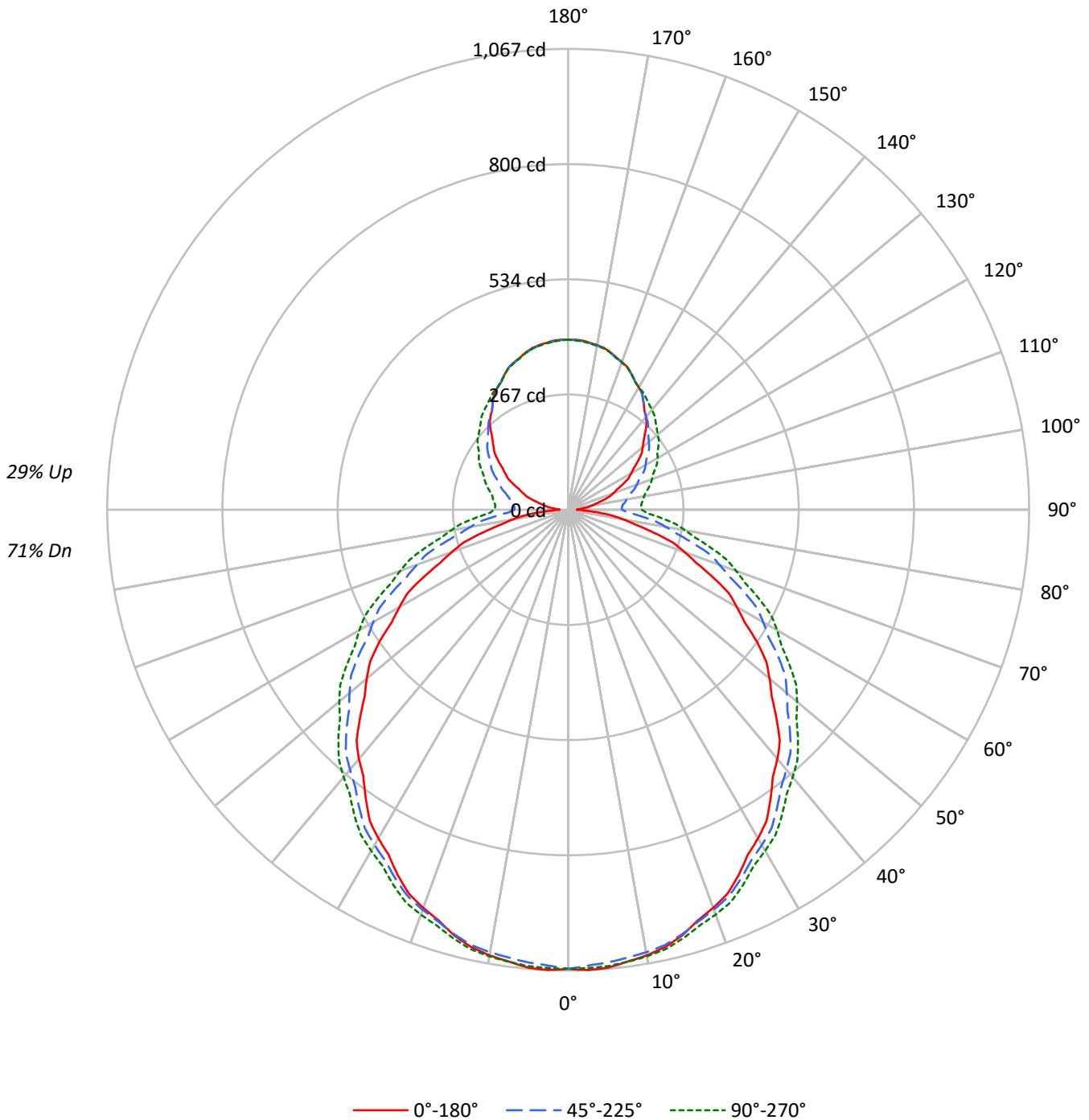
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332629-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P332629-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D1

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 | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 85 | 85 | 85 | 75 | 75 | 75 | 71 |
| 1 | 101 | 96 | 91 | 87 | 95 | 91 | 87 | 83 | 81 | 78 | 75 | 73 | 70 | 68 | 64 | 63 | 61 | 57 |
| 2 | 91 | 83 | 76 | 70 | 86 | 79 | 72 | 67 | 70 | 65 | 61 | 63 | 59 | 56 | 56 | 53 | 50 | 46 |
| 3 | 83 | 73 | 64 | 58 | 78 | 69 | 61 | 55 | 62 | 56 | 51 | 55 | 50 | 46 | 49 | 45 | 42 | 39 |
| 4 | 76 | 64 | 55 | 49 | 71 | 61 | 53 | 47 | 55 | 48 | 43 | 49 | 44 | 39 | 44 | 39 | 36 | 33 |
| 5 | 70 | 57 | 48 | 41 | 65 | 54 | 46 | 40 | 49 | 42 | 37 | 44 | 38 | 34 | 39 | 35 | 31 | 28 |
| 6 | 64 | 51 | 42 | 36 | 60 | 49 | 40 | 35 | 44 | 37 | 32 | 39 | 34 | 30 | 35 | 31 | 27 | 24 |
| 7 | 59 | 46 | 37 | 31 | 56 | 44 | 36 | 30 | 40 | 33 | 28 | 36 | 30 | 26 | 32 | 28 | 24 | 22 |
| 8 | 55 | 42 | 34 | 28 | 52 | 40 | 32 | 27 | 36 | 30 | 25 | 33 | 27 | 23 | 30 | 25 | 21 | 19 |
| 9 | 51 | 38 | 30 | 25 | 48 | 37 | 29 | 24 | 33 | 27 | 22 | 30 | 25 | 21 | 27 | 23 | 19 | 17 |
| 10 | 48 | 35 | 27 | 22 | 45 | 34 | 26 | 22 | 31 | 24 | 20 | 28 | 23 | 19 | 25 | 21 | 17 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8582 | 8582 | 8582 |
| 5° | 8608 | 8387 | 8412 |
| 10° | 8556 | 8250 | 8244 |
| 15° | 8479 | 8091 | 8047 |
| 20° | 8364 | 7916 | 7856 |
| 25° | 8233 | 7719 | 7645 |
| 30° | 8093 | 7524 | 7428 |
| 35° | 7933 | 7324 | 7239 |
| 40° | 7804 | 7134 | 7041 |
| 45° | 7615 | 6958 | 6871 |
| 50° | 7455 | 6755 | 6692 |
| 55° | 7289 | 6565 | 6482 |
| 60° | 7031 | 6322 | 6290 |
| 65° | 6747 | 6061 | 6055 |
| 70° | 6405 | 5763 | 5780 |
| 75° | 5924 | 5435 | 5533 |
| 80° | 5397 | 5119 | 5288 |
| 85° | 4721 | 4842 | 5146 |



TEST NUMBER: P332629-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.7 | 2.1 |
| 10°-20° | 288.4 | 6.1 |
| 20°-30° | 436.1 | 9.2 |
| 30°-40° | 527.7 | 11.2 |
| 40°-50° | 557.9 | 11.8 |
| 50°-60° | 525.0 | 11.1 |
| 60°-70° | 435.6 | 9.2 |
| 70°-80° | 306.0 | 6.5 |
| 80°-90° | 174.2 | 3.7 |
| 90°-100° | 128.7 | 2.7 |
| 100°-110° | 152.9 | 3.2 |
| 110°-120° | 181.5 | 3.8 |
| 120°-130° | 200.8 | 4.3 |
| 130°-140° | 205.6 | 4.4 |
| 140°-150° | 192.4 | 4.1 |
| 150°-160° | 159.7 | 3.4 |
| 160°-170° | 106.2 | 2.3 |
| 170°-180° | 37.2 | 0.8 |
| 0°-30° | 825.2 | 17.5 |
| 0°-40° | 1352.9 | 28.7 |
| 0°-60° | 2435.8 | 51.6 |
| 0°-90° | 3351.5 | 71.1 |
| 90°-120° | 463.0 | 9.8 |
| 90°-150° | 1061.8 | 22.5 |
| 90°-180° | 1365.0 | 28.9 |
| 0°-180° | 4716.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1063 | 1063 | 1063 | 1063 | 1063 | |
| 5° | 1064 | 1060 | 1052 | 1061 | 1061 | 101 |
| 15° | 1020 | 1021 | 1018 | 1028 | 1027 | 287 |
| 25° | 933 | 940 | 944 | 956 | 958 | 430 |
| 35° | 817 | 831 | 843 | 859 | 863 | 511 |
| 45° | 681 | 704 | 726 | 746 | 752 | 526 |
| 55° | 533 | 559 | 594 | 617 | 625 | 475 |
| 65° | 369 | 407 | 448 | 476 | 487 | 366 |
| 75° | 205 | 249 | 299 | 331 | 343 | 218 |
| 85° | 63 | 113 | 167 | 201 | 214 | 67 |
| 90° | 20 | 71 | 125 | 159 | 171 | 14 |
| 95° | 34 | 76 | 127 | 158 | 170 | 33 |
| 105° | 82 | 107 | 151 | 180 | 192 | 87 |
| 115° | 140 | 152 | 188 | 213 | 222 | 138 |
| 125° | 198 | 198 | 226 | 247 | 255 | 177 |
| 135° | 252 | 254 | 262 | 280 | 286 | 195 |
| 145° | 304 | 304 | 304 | 311 | 315 | 190 |
| 155° | 347 | 347 | 347 | 348 | 347 | 160 |
| 165° | 378 | 377 | 376 | 378 | 377 | 106 |
| 175° | 393 | 391 | 391 | 393 | 391 | 37 |
| 180° | 393 | 393 | 393 | 393 | 393 | |



TEST NUMBER: P332629-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 |
| 2.5° | 1066.9 | 1066.3 | 1065.6 | 1065.0 | 1064.3 | 1063.2 | 1061.4 | 1059.8 | 1058.1 | 1056.4 | 1057.8 |
| 5° | 1064.2 | 1063.4 | 1062.6 | 1061.9 | 1061.1 | 1059.7 | 1057.9 | 1056.0 | 1054.2 | 1052.3 | 1054.5 |
| 7.5° | 1055.2 | 1054.7 | 1054.2 | 1053.8 | 1053.3 | 1052.3 | 1050.8 | 1049.2 | 1047.7 | 1046.1 | 1048.5 |
| 10° | 1047.6 | 1047.3 | 1047.1 | 1046.8 | 1046.5 | 1045.7 | 1044.4 | 1043.1 | 1041.7 | 1040.4 | 1042.8 |
| 12.5° | 1037.1 | 1037.1 | 1037.0 | 1036.9 | 1036.9 | 1036.4 | 1035.5 | 1034.6 | 1033.7 | 1032.8 | 1035.0 |
| 15° | 1020.2 | 1020.5 | 1020.7 | 1021.0 | 1021.2 | 1021.0 | 1020.2 | 1019.4 | 1018.6 | 1017.8 | 1020.2 |
| 17.5° | 997.1 | 997.9 | 998.7 | 999.4 | 1000.3 | 1000.6 | 1000.4 | 1000.3 | 1000.1 | 1000.0 | 1002.4 |
| 20° | 980.9 | 981.7 | 982.5 | 983.3 | 984.1 | 984.6 | 984.9 | 985.2 | 985.4 | 985.7 | 988.3 |
| 22.5° | 962.8 | 963.8 | 964.8 | 965.9 | 966.8 | 967.6 | 968.0 | 968.5 | 969.0 | 969.5 | 972.2 |
| 25° | 933.3 | 934.9 | 936.4 | 938.1 | 939.6 | 940.8 | 941.6 | 942.5 | 943.2 | 944.0 | 946.9 |
| 27.5° | 900.4 | 902.8 | 905.1 | 907.4 | 909.7 | 911.5 | 912.7 | 914.0 | 915.2 | 916.4 | 919.1 |
| 30° | 878.6 | 880.6 | 882.8 | 884.8 | 887.0 | 889.0 | 890.8 | 892.7 | 894.5 | 896.4 | 899.3 |
| 32.5° | 854.7 | 857.3 | 859.8 | 862.4 | 864.9 | 867.2 | 869.3 | 871.3 | 873.4 | 875.5 | 878.7 |
| 35° | 816.7 | 819.8 | 822.9 | 826.1 | 829.3 | 832.2 | 834.9 | 837.5 | 840.2 | 842.8 | 846.5 |
| 37.5° | 778.3 | 782.0 | 785.6 | 789.3 | 792.9 | 796.3 | 799.6 | 802.9 | 806.2 | 809.5 | 813.2 |
| 40° | 753.5 | 757.0 | 760.4 | 763.9 | 767.3 | 770.9 | 774.6 | 778.3 | 782.0 | 785.7 | 789.6 |
| 42.5° | 725.0 | 728.8 | 732.7 | 736.6 | 740.4 | 744.5 | 748.8 | 753.2 | 757.5 | 761.9 | 766.3 |
| 45° | 680.9 | 686.0 | 691.0 | 696.0 | 701.0 | 706.0 | 711.1 | 716.1 | 721.1 | 726.2 | 730.6 |
| 47.5° | 638.8 | 643.9 | 649.1 | 654.4 | 659.5 | 665.0 | 670.8 | 676.7 | 682.5 | 688.3 | 692.9 |
| 50° | 608.3 | 614.2 | 619.9 | 625.8 | 631.5 | 637.4 | 643.3 | 649.0 | 654.9 | 660.6 | 666.0 |
| 52.5° | 577.8 | 583.7 | 589.4 | 595.3 | 601.2 | 607.3 | 614.0 | 620.7 | 627.3 | 634.0 | 639.3 |
| 55° | 533.3 | 538.9 | 544.4 | 550.0 | 555.5 | 562.2 | 570.2 | 578.2 | 586.1 | 594.0 | 599.3 |
| 57.5° | 483.5 | 490.4 | 497.3 | 504.2 | 511.1 | 518.4 | 526.3 | 534.3 | 542.1 | 550.0 | 556.3 |
| 60° | 451.2 | 458.1 | 464.9 | 471.8 | 478.7 | 486.5 | 495.2 | 503.9 | 512.6 | 521.4 | 527.4 |
| 62.5° | 419.7 | 427.2 | 434.8 | 442.3 | 449.8 | 457.9 | 466.7 | 475.4 | 484.1 | 492.8 | 498.9 |
| 65° | 369.0 | 377.5 | 386.0 | 394.4 | 402.9 | 411.6 | 420.6 | 429.6 | 438.6 | 447.6 | 454.2 |
| 67.5° | 320.2 | 329.2 | 338.2 | 347.2 | 356.2 | 365.5 | 375.1 | 384.8 | 394.4 | 404.1 | 410.8 |
| 70° | 286.9 | 295.9 | 304.9 | 313.8 | 322.9 | 332.4 | 342.4 | 352.5 | 362.6 | 372.6 | 379.8 |
| 72.5° | 254.5 | 263.7 | 272.9 | 282.1 | 291.4 | 301.3 | 311.9 | 322.6 | 333.4 | 344.1 | 350.9 |
| 75° | 204.7 | 214.6 | 224.3 | 234.1 | 243.9 | 254.3 | 265.4 | 276.6 | 287.7 | 298.8 | 306.2 |
| 77.5° | 158.3 | 168.7 | 179.1 | 189.4 | 199.8 | 210.8 | 222.5 | 234.1 | 245.7 | 257.4 | 264.8 |
| 80° | 129.8 | 140.3 | 150.9 | 161.5 | 172.1 | 183.2 | 194.8 | 206.5 | 218.1 | 229.7 | 237.7 |
| 82.5° | 101.2 | 112.2 | 123.2 | 134.2 | 145.2 | 156.5 | 168.2 | 179.8 | 191.5 | 203.1 | 211.2 |
| 85° | 63.1 | 74.2 | 85.3 | 96.4 | 107.5 | 119.1 | 131.0 | 142.8 | 154.7 | 166.7 | 174.6 |
| 87.5° | 35.4 | 46.3 | 57.3 | 68.3 | 79.2 | 90.5 | 102.2 | 113.9 | 125.6 | 137.2 | 145.1 |
| 90° | 20.0 | 31.3 | 42.6 | 53.9 | 65.3 | 76.9 | 88.8 | 100.7 | 112.6 | 124.6 | 132.6 |
| 92.5° | 24.6 | 35.0 | 45.4 | 55.7 | 66.1 | 77.1 | 88.9 | 100.7 | 112.4 | 124.2 | 131.9 |
| 95° | 33.8 | 43.0 | 52.4 | 61.7 | 71.1 | 81.5 | 92.7 | 104.0 | 115.4 | 126.7 | 134.1 |
| 97.5° | 45.9 | 53.9 | 61.9 | 69.9 | 77.9 | 87.6 | 98.8 | 110.2 | 121.5 | 132.8 | 139.9 |
| 100° | 55.7 | 62.9 | 70.0 | 77.1 | 84.3 | 93.3 | 104.3 | 115.2 | 126.1 | 137.0 | 144.3 |
| 102.5° | 66.9 | 73.0 | 79.1 | 85.3 | 91.4 | 99.9 | 110.5 | 121.1 | 131.8 | 142.5 | 149.6 |
| 105° | 81.6 | 87.0 | 92.3 | 97.6 | 103.1 | 110.7 | 120.8 | 130.9 | 140.9 | 151.0 | 157.8 |
| 107.5° | 99.3 | 103.8 | 108.1 | 112.5 | 117.0 | 123.8 | 133.1 | 142.5 | 151.8 | 161.1 | 167.7 |
| 110° | 110.6 | 114.3 | 118.2 | 122.1 | 125.9 | 132.4 | 141.6 | 150.8 | 160.0 | 169.2 | 175.1 |



TEST NUMBER: P332629-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 122.3 | 125.5 | 128.9 | 132.2 | 135.4 | 141.5 | 150.2 | 158.9 | 167.6 | 176.3 | 182.2 |
| 115° | 139.8 | 142.2 | 144.6 | 147.0 | 149.3 | 154.6 | 163.0 | 171.3 | 179.7 | 188.0 | 193.7 |
| 117.5° | 157.5 | 158.9 | 160.4 | 161.9 | 163.4 | 168.0 | 175.8 | 183.6 | 191.4 | 199.1 | 204.4 |
| 120° | 168.4 | 169.4 | 170.6 | 171.6 | 172.7 | 176.9 | 184.4 | 191.9 | 199.3 | 206.8 | 211.8 |
| 122.5° | 180.8 | 181.1 | 181.3 | 181.7 | 181.9 | 185.6 | 192.8 | 199.9 | 207.1 | 214.2 | 219.3 |
| 125° | 197.9 | 197.7 | 197.4 | 197.2 | 196.9 | 200.0 | 206.6 | 213.1 | 219.6 | 226.2 | 231.1 |
| 127.5° | 214.3 | 214.3 | 214.2 | 214.1 | 214.0 | 216.5 | 221.5 | 226.4 | 231.4 | 236.4 | 241.1 |
| 130° | 225.1 | 225.0 | 225.0 | 224.9 | 224.8 | 226.9 | 231.1 | 235.4 | 239.6 | 243.8 | 248.5 |
| 132.5° | 237.0 | 236.9 | 236.8 | 236.6 | 236.5 | 238.2 | 241.4 | 244.8 | 248.1 | 251.5 | 255.9 |
| 135° | 251.6 | 251.9 | 252.4 | 252.8 | 253.2 | 254.3 | 256.1 | 258.0 | 259.8 | 261.7 | 265.8 |
| 137.5° | 268.7 | 268.6 | 268.5 | 268.5 | 268.5 | 268.9 | 269.9 | 270.9 | 271.9 | 272.9 | 276.6 |
| 140° | 280.2 | 280.0 | 279.9 | 279.7 | 279.7 | 279.7 | 280.0 | 280.3 | 280.5 | 280.8 | 284.1 |
| 142.5° | 289.6 | 289.7 | 289.8 | 289.9 | 290.0 | 289.9 | 289.7 | 289.6 | 289.3 | 289.1 | 292.1 |
| 145° | 303.9 | 303.9 | 303.9 | 303.9 | 303.9 | 304.0 | 304.0 | 304.1 | 304.2 | 304.3 | 305.7 |
| 147.5° | 318.3 | 318.3 | 318.4 | 318.5 | 318.5 | 318.5 | 318.5 | 318.4 | 318.4 | 318.3 | 318.5 |
| 150° | 327.0 | 327.0 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 |
| 152.5° | 334.3 | 334.5 | 334.6 | 334.7 | 334.8 | 334.8 | 334.9 | 335.0 | 335.0 | 335.1 | 335.3 |
| 155° | 346.8 | 346.8 | 346.8 | 346.8 | 346.8 | 346.8 | 346.7 | 346.6 | 346.6 | 346.6 | 346.8 |
| 157.5° | 357.6 | 357.4 | 357.3 | 357.2 | 357.1 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 357.1 |
| 160° | 363.9 | 363.8 | 363.8 | 363.7 | 363.6 | 363.5 | 363.5 | 363.4 | 363.3 | 363.3 | 363.5 |
| 162.5° | 369.7 | 369.5 | 369.4 | 369.2 | 369.0 | 368.9 | 368.9 | 368.8 | 368.7 | 368.6 | 369.0 |
| 165° | 377.5 | 377.4 | 377.2 | 376.9 | 376.8 | 376.6 | 376.4 | 376.3 | 376.2 | 376.1 | 376.4 |
| 167.5° | 383.6 | 383.3 | 383.1 | 382.7 | 382.5 | 382.3 | 382.4 | 382.4 | 382.4 | 382.4 | 382.8 |
| 170° | 387.0 | 386.7 | 386.3 | 386.0 | 385.6 | 385.6 | 385.6 | 385.6 | 385.7 | 385.8 | 386.2 |
| 172.5° | 389.4 | 389.2 | 388.8 | 388.6 | 388.3 | 388.1 | 388.1 | 388.2 | 388.2 | 388.2 | 388.7 |
| 175° | 392.8 | 392.4 | 392.1 | 391.8 | 391.4 | 391.2 | 391.2 | 391.1 | 391.1 | 391.0 | 391.4 |
| 177.5° | 393.9 | 393.6 | 393.3 | 393.0 | 392.8 | 392.7 | 392.7 | 392.7 | 392.7 | 392.7 | 393.0 |
| 180° | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 |



TEST NUMBER: P332629-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 |
| 2.5° | 1059.4 | 1060.8 | 1062.3 | 1062.9 | 1062.7 | 1062.5 | 1062.3 | 1062.1 |
| 5° | 1056.5 | 1058.7 | 1060.8 | 1061.7 | 1061.4 | 1061.2 | 1060.9 | 1060.7 |
| 7.5° | 1050.9 | 1053.3 | 1055.7 | 1056.7 | 1056.4 | 1056.2 | 1055.9 | 1055.7 |
| 10° | 1045.2 | 1047.6 | 1050.0 | 1051.0 | 1050.8 | 1050.5 | 1050.2 | 1050.0 |
| 12.5° | 1037.2 | 1039.3 | 1041.5 | 1042.6 | 1042.5 | 1042.4 | 1042.4 | 1042.3 |
| 15° | 1022.6 | 1024.9 | 1027.3 | 1028.4 | 1028.1 | 1027.9 | 1027.6 | 1027.3 |
| 17.5° | 1004.8 | 1007.3 | 1009.7 | 1010.8 | 1010.6 | 1010.4 | 1010.1 | 1010.0 |
| 20° | 990.9 | 993.6 | 996.3 | 997.6 | 997.6 | 997.6 | 997.6 | 997.6 |
| 22.5° | 974.7 | 977.4 | 980.1 | 981.6 | 982.1 | 982.4 | 982.8 | 983.3 |
| 25° | 949.9 | 952.7 | 955.6 | 957.3 | 957.5 | 957.8 | 958.0 | 958.3 |
| 27.5° | 921.8 | 924.5 | 927.2 | 928.7 | 929.0 | 929.4 | 929.6 | 930.0 |
| 30° | 902.2 | 905.1 | 908.0 | 909.7 | 910.2 | 910.8 | 911.4 | 911.9 |
| 32.5° | 882.1 | 885.5 | 888.8 | 890.7 | 891.2 | 891.7 | 892.3 | 892.9 |
| 35° | 850.2 | 853.9 | 857.6 | 859.9 | 860.7 | 861.4 | 862.3 | 863.1 |
| 37.5° | 817.0 | 820.8 | 824.5 | 826.8 | 827.7 | 828.5 | 829.3 | 830.2 |
| 40° | 793.6 | 797.5 | 801.6 | 804.1 | 805.1 | 806.2 | 807.3 | 808.3 |
| 42.5° | 770.7 | 775.1 | 779.5 | 782.0 | 782.9 | 783.8 | 784.6 | 785.4 |
| 45° | 735.1 | 739.7 | 744.2 | 747.1 | 748.4 | 749.7 | 751.1 | 752.3 |
| 47.5° | 697.6 | 702.2 | 707.0 | 710.1 | 711.6 | 713.3 | 714.8 | 716.4 |
| 50° | 671.2 | 676.6 | 681.8 | 685.3 | 686.9 | 688.5 | 690.0 | 691.6 |
| 52.5° | 644.6 | 649.9 | 655.2 | 658.6 | 660.2 | 661.8 | 663.4 | 665.0 |
| 55° | 604.6 | 609.9 | 615.2 | 618.6 | 620.2 | 621.8 | 623.4 | 625.0 |
| 57.5° | 562.6 | 568.9 | 575.1 | 579.0 | 580.5 | 582.0 | 583.5 | 585.0 |
| 60° | 533.6 | 539.7 | 545.7 | 549.8 | 552.0 | 554.1 | 556.2 | 558.3 |
| 62.5° | 505.0 | 511.1 | 517.2 | 521.2 | 523.4 | 525.5 | 527.6 | 529.8 |
| 65° | 460.8 | 467.4 | 474.1 | 478.5 | 480.5 | 482.7 | 484.7 | 486.9 |
| 67.5° | 417.5 | 424.2 | 430.9 | 435.3 | 437.4 | 439.5 | 441.5 | 443.6 |
| 70° | 386.8 | 394.0 | 401.1 | 405.7 | 407.5 | 409.4 | 411.2 | 413.1 |
| 72.5° | 357.9 | 364.8 | 371.8 | 376.3 | 378.3 | 380.4 | 382.5 | 384.5 |
| 75° | 313.6 | 321.0 | 328.4 | 333.3 | 335.7 | 338.1 | 340.4 | 342.9 |
| 77.5° | 272.4 | 279.9 | 287.4 | 292.5 | 295.0 | 297.6 | 300.1 | 302.6 |
| 80° | 245.6 | 253.6 | 261.5 | 266.5 | 268.6 | 270.8 | 272.9 | 275.0 |
| 82.5° | 219.4 | 227.6 | 235.7 | 240.9 | 243.2 | 245.6 | 247.9 | 250.2 |
| 85° | 182.5 | 190.5 | 198.4 | 203.7 | 206.4 | 209.0 | 211.6 | 214.3 |
| 87.5° | 152.8 | 160.6 | 168.3 | 173.3 | 175.7 | 178.1 | 180.4 | 182.8 |
| 90° | 140.7 | 148.8 | 156.9 | 162.0 | 164.3 | 166.5 | 168.8 | 171.0 |
| 92.5° | 139.6 | 147.3 | 155.0 | 160.0 | 162.1 | 164.4 | 166.5 | 168.8 |
| 95° | 141.4 | 148.7 | 156.1 | 160.9 | 163.3 | 165.7 | 168.1 | 170.5 |
| 97.5° | 147.1 | 154.3 | 161.4 | 166.2 | 168.4 | 170.7 | 173.0 | 175.3 |
| 100° | 151.5 | 158.9 | 166.2 | 170.7 | 172.5 | 174.4 | 176.2 | 178.1 |
| 102.5° | 156.7 | 163.8 | 171.0 | 175.6 | 177.7 | 179.8 | 181.9 | 184.1 |
| 105° | 164.6 | 171.4 | 178.2 | 182.8 | 185.1 | 187.4 | 189.8 | 192.1 |
| 107.5° | 174.4 | 181.2 | 187.9 | 192.2 | 194.0 | 195.9 | 197.8 | 199.7 |
| 110° | 181.1 | 187.0 | 193.0 | 197.1 | 199.4 | 201.7 | 204.1 | 206.4 |



TEST NUMBER: P332629-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 188.0 | 193.9 | 199.8 | 203.7 | 205.9 | 208.0 | 210.2 | 212.3 |
| 115° | 199.5 | 205.3 | 211.0 | 214.7 | 216.5 | 218.3 | 220.2 | 221.9 |
| 117.5° | 209.7 | 215.0 | 220.2 | 223.9 | 225.8 | 227.8 | 229.8 | 231.8 |
| 120° | 216.7 | 221.7 | 226.6 | 230.2 | 232.5 | 234.7 | 236.9 | 239.3 |
| 122.5° | 224.4 | 229.4 | 234.5 | 237.8 | 239.5 | 241.2 | 242.8 | 244.4 |
| 125° | 236.0 | 240.9 | 245.8 | 249.0 | 250.4 | 251.8 | 253.3 | 254.8 |
| 127.5° | 245.6 | 250.3 | 254.9 | 258.1 | 259.8 | 261.5 | 263.1 | 264.8 |
| 130° | 253.0 | 257.7 | 262.3 | 265.3 | 266.7 | 267.9 | 269.2 | 270.6 |
| 132.5° | 260.3 | 264.7 | 269.1 | 272.1 | 273.5 | 275.0 | 276.5 | 278.0 |
| 135° | 269.9 | 274.0 | 278.1 | 280.9 | 282.2 | 283.6 | 285.0 | 286.4 |
| 137.5° | 280.3 | 284.0 | 287.7 | 290.2 | 291.5 | 292.9 | 294.3 | 295.7 |
| 140° | 287.5 | 290.8 | 294.3 | 296.5 | 297.8 | 299.1 | 300.3 | 301.6 |
| 142.5° | 295.1 | 298.1 | 301.1 | 303.2 | 304.3 | 305.3 | 306.4 | 307.5 |
| 145° | 307.3 | 308.8 | 310.3 | 311.5 | 312.4 | 313.2 | 314.1 | 315.0 |
| 147.5° | 318.7 | 318.7 | 318.9 | 319.4 | 320.2 | 321.0 | 321.8 | 322.5 |
| 150° | 327.1 | 327.1 | 327.1 | 327.0 | 327.0 | 326.9 | 326.8 | 326.7 |
| 152.5° | 335.4 | 335.6 | 335.8 | 335.7 | 335.5 | 335.4 | 335.2 | 335.0 |
| 155° | 347.1 | 347.3 | 347.6 | 347.6 | 347.3 | 347.1 | 346.8 | 346.6 |
| 157.5° | 357.3 | 357.6 | 357.7 | 357.7 | 357.5 | 357.3 | 357.1 | 356.8 |
| 160° | 363.7 | 363.9 | 364.1 | 364.0 | 363.7 | 363.3 | 363.0 | 362.7 |
| 162.5° | 369.4 | 369.7 | 370.1 | 370.1 | 369.8 | 369.5 | 369.1 | 368.8 |
| 165° | 376.9 | 377.3 | 377.6 | 377.7 | 377.5 | 377.2 | 376.9 | 376.7 |
| 167.5° | 383.2 | 383.6 | 384.0 | 384.0 | 383.6 | 383.1 | 382.7 | 382.3 |
| 170° | 386.6 | 387.0 | 387.4 | 387.4 | 386.9 | 386.4 | 386.0 | 385.5 |
| 172.5° | 389.2 | 389.6 | 390.0 | 390.0 | 389.6 | 389.1 | 388.7 | 388.1 |
| 175° | 391.9 | 392.4 | 392.9 | 392.9 | 392.4 | 391.9 | 391.4 | 391.0 |
| 177.5° | 393.4 | 393.8 | 394.2 | 394.2 | 393.7 | 393.3 | 392.9 | 392.4 |
| 180° | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 |

(END OF REPORT)