

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: P332936-830

Luminaire Tested: **S124RDIP-S795D590U830-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332936-830
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: S124RDIP-S795D590U830-4F0-1E-UDD-F4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5017.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

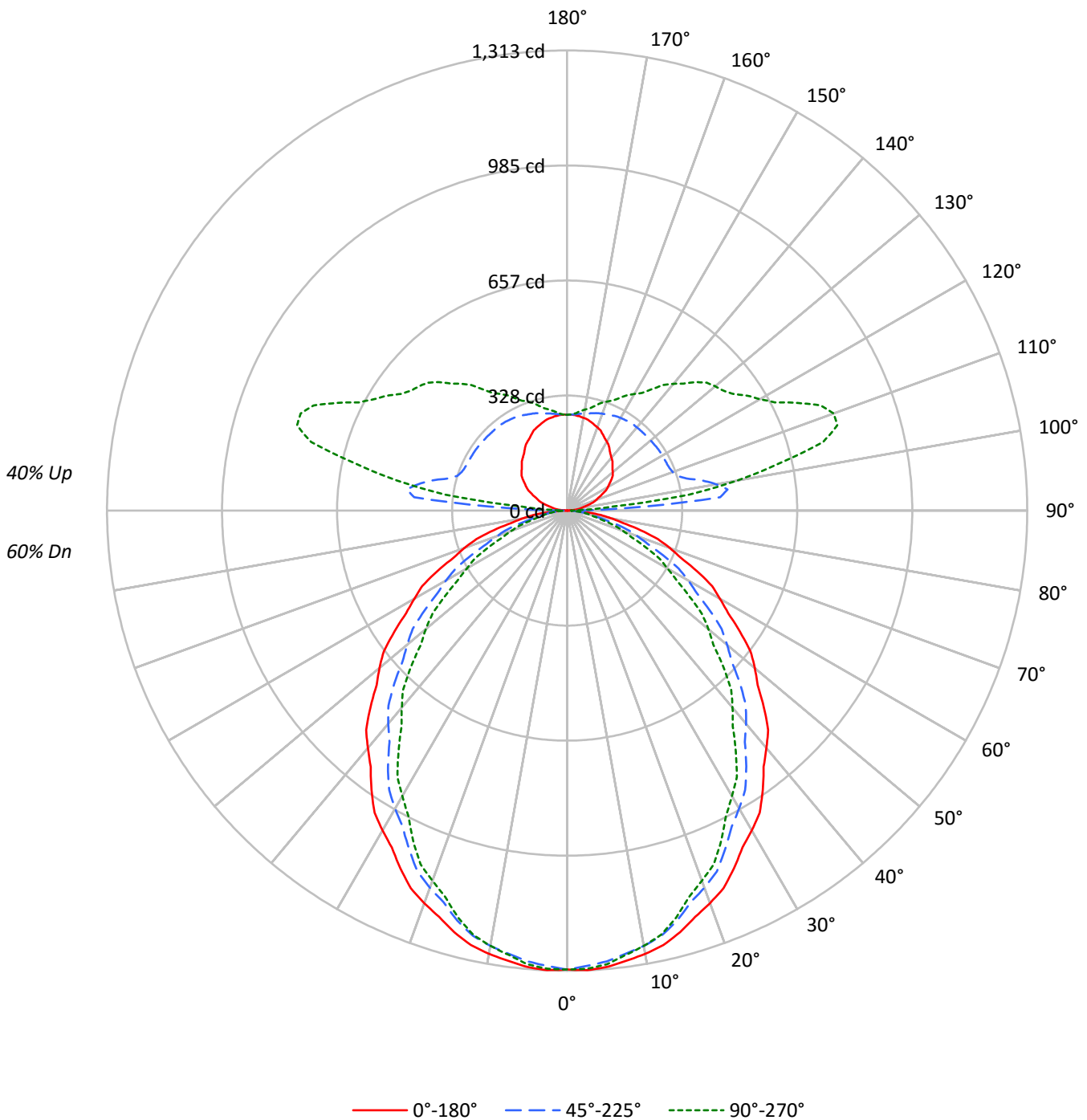
Input Watts (W): 40.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332936-830

CATALOG NUMBER: S124RDIP-S795D590U830-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332936-830

CATALOG NUMBER: S124RDIP-S795D590U830-4F0-1E-UDD-F4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|--|----|----|----|--|----|----|----|--|----|----|----|----|
| RF | 20 | | | | | 20 | | | | | | 20 | | | | | | | | 20 | | |
| RC | 80 | | | | | 70 | | | | | | 30 | | | | | | | | 10 | 0 | |
| RW | 70 | 50 | 30 | 10 | | 70 | 50 | 30 | 10 | | 50 | 30 | 10 | | 50 | 30 | 10 | | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 110 | 110 | 110 | 110 | | 102 | 102 | 102 | 102 | | 89 | 89 | 89 | | 77 | 77 | 77 | | 66 | 66 | 66 | 60 |
| 1 | 100 | 96 | 92 | 89 | | 94 | 90 | 87 | 84 | | 79 | 76 | 74 | | 68 | 66 | 65 | | 59 | 57 | 56 | 51 |
| 2 | 92 | 84 | 78 | 73 | | 86 | 79 | 74 | 69 | | 69 | 65 | 62 | | 60 | 57 | 55 | | 52 | 50 | 48 | 44 |
| 3 | 84 | 74 | 67 | 61 | | 78 | 70 | 63 | 58 | | 61 | 56 | 52 | | 54 | 50 | 47 | | 46 | 43 | 41 | 37 |
| 4 | 77 | 66 | 58 | 52 | | 72 | 62 | 55 | 50 | | 55 | 49 | 45 | | 48 | 44 | 40 | | 42 | 38 | 36 | 32 |
| 5 | 71 | 59 | 51 | 45 | | 66 | 56 | 48 | 43 | | 49 | 43 | 39 | | 43 | 39 | 35 | | 38 | 34 | 31 | 28 |
| 6 | 65 | 53 | 45 | 39 | | 61 | 50 | 43 | 38 | | 44 | 39 | 34 | | 39 | 34 | 31 | | 34 | 30 | 28 | 25 |
| 7 | 60 | 48 | 40 | 35 | | 56 | 46 | 38 | 33 | | 40 | 35 | 30 | | 36 | 31 | 27 | | 31 | 28 | 25 | 22 |
| 8 | 56 | 44 | 36 | 31 | | 53 | 41 | 34 | 29 | | 37 | 31 | 27 | | 33 | 28 | 25 | | 29 | 25 | 22 | 20 |
| 9 | 52 | 40 | 33 | 28 | | 49 | 38 | 31 | 26 | | 34 | 28 | 24 | | 30 | 26 | 22 | | 27 | 23 | 20 | 18 |
| 10 | 49 | 37 | 30 | 25 | | 46 | 35 | 28 | 24 | | 31 | 26 | 22 | | 28 | 23 | 20 | | 25 | 21 | 18 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10571 | 10571 | 10571 |
| 5° | 10594 | 10464 | 10529 |
| 10° | 10528 | 10339 | 10339 |
| 15° | 10407 | 10122 | 10046 |
| 20° | 10241 | 9836 | 9655 |
| 25° | 10029 | 9502 | 9260 |
| 30° | 9822 | 9149 | 8766 |
| 35° | 9594 | 8784 | 8270 |
| 40° | 9319 | 8368 | 7734 |
| 45° | 9065 | 7955 | 7188 |
| 50° | 8776 | 7479 | 6610 |
| 55° | 8466 | 6984 | 5983 |
| 60° | 8126 | 6442 | 5341 |
| 65° | 7815 | 5765 | 4713 |
| 70° | 7360 | 5016 | 4001 |
| 75° | 6784 | 4161 | 3250 |
| 80° | 5918 | 3166 | 2985 |
| 85° | 5011 | 2881 | 2686 |



TEST NUMBER: P332936-830

CATALOG NUMBER: S124RDIP-S795D590U830-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 123.0 | 2.5 |
| 10°-20° | 343.0 | 6.8 |
| 20°-30° | 495.3 | 9.9 |
| 30°-40° | 561.4 | 11.2 |
| 40°-50° | 542.1 | 10.8 |
| 50°-60° | 450.8 | 9.0 |
| 60°-70° | 311.3 | 6.2 |
| 70°-80° | 157.8 | 3.1 |
| 80°-90° | 42.0 | 0.8 |
| 90°-100° | 197.7 | 3.9 |
| 100°-110° | 411.4 | 8.2 |
| 110°-120° | 368.5 | 7.3 |
| 120°-130° | 310.0 | 6.2 |
| 130°-140° | 258.4 | 5.2 |
| 140°-150° | 197.4 | 3.9 |
| 150°-160° | 138.8 | 2.8 |
| 160°-170° | 81.6 | 1.6 |
| 170°-180° | 26.6 | 0.5 |
| 0°-30° | 961.2 | 19.2 |
| 0°-40° | 1522.6 | 30.3 |
| 0°-60° | 2515.6 | 50.1 |
| 0°-90° | 3026.6 | 60.3 |
| 90°-120° | 977.6 | 19.5 |
| 90°-150° | 1743.4 | 34.8 |
| 90°-180° | 1990.0 | 39.7 |
| 0°-180° | 5017.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1309 | 1309 | 1309 | 1309 | 1309 | |
| 5° | 1307 | 1303 | 1291 | 1301 | 1299 | 124 |
| 15° | 1245 | 1235 | 1211 | 1209 | 1202 | 351 |
| 25° | 1126 | 1106 | 1067 | 1050 | 1040 | 519 |
| 35° | 974 | 940 | 891 | 858 | 839 | 608 |
| 45° | 794 | 756 | 697 | 649 | 630 | 612 |
| 55° | 602 | 560 | 496 | 446 | 425 | 538 |
| 65° | 409 | 365 | 302 | 260 | 247 | 404 |
| 75° | 218 | 180 | 133 | 111 | 104 | 230 |
| 85° | 54 | 35 | 31 | 29 | 29 | 61 |
| 90° | 1 | 4 | 10 | 11 | 11 | 4 |
| 95° | 18 | 56 | 438 | 217 | 131 | 20 |
| 105° | 63 | 91 | 353 | 760 | 756 | 67 |
| 115° | 111 | 139 | 314 | 604 | 726 | 110 |
| 125° | 154 | 183 | 313 | 514 | 580 | 137 |
| 135° | 183 | 218 | 310 | 456 | 518 | 142 |
| 145° | 211 | 242 | 309 | 385 | 423 | 133 |
| 155° | 240 | 259 | 300 | 340 | 354 | 111 |
| 165° | 262 | 270 | 288 | 305 | 309 | 74 |
| 175° | 273 | 274 | 276 | 280 | 278 | 26 |
| 180° | 274 | 274 | 274 | 274 | 274 | |



TEST NUMBER: P332936-830

CATALOG NUMBER: S124RDIP-S795D590U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 |
| 2.5° | 1312.6 | 1311.8 | 1311.1 | 1310.4 | 1309.7 | 1308.3 | 1306.4 | 1304.5 | 1302.5 | 1300.5 | 1302.5 |
| 5° | 1307.3 | 1306.5 | 1305.5 | 1304.7 | 1303.7 | 1302.0 | 1299.3 | 1296.7 | 1293.9 | 1291.3 | 1293.5 |
| 7.5° | 1295.5 | 1294.6 | 1293.6 | 1292.7 | 1291.8 | 1289.6 | 1286.1 | 1282.6 | 1279.1 | 1275.6 | 1277.1 |
| 10° | 1284.3 | 1283.2 | 1282.0 | 1280.9 | 1279.8 | 1277.2 | 1273.3 | 1269.2 | 1265.3 | 1261.2 | 1262.1 |
| 12.5° | 1269.8 | 1268.6 | 1267.2 | 1265.9 | 1264.7 | 1261.7 | 1257.0 | 1252.2 | 1247.5 | 1242.7 | 1243.3 |
| 15° | 1245.2 | 1243.2 | 1241.1 | 1239.2 | 1237.2 | 1233.4 | 1227.8 | 1222.2 | 1216.6 | 1211.1 | 1210.6 |
| 17.5° | 1215.3 | 1212.4 | 1209.5 | 1206.6 | 1203.7 | 1198.9 | 1192.2 | 1185.5 | 1178.8 | 1172.1 | 1170.9 |
| 20° | 1192.0 | 1189.1 | 1186.3 | 1183.4 | 1180.4 | 1175.3 | 1167.6 | 1160.1 | 1152.4 | 1144.9 | 1143.1 |
| 22.5° | 1166.4 | 1163.1 | 1159.9 | 1156.6 | 1153.4 | 1147.6 | 1139.5 | 1131.4 | 1123.3 | 1115.2 | 1112.6 |
| 25° | 1125.9 | 1121.8 | 1117.9 | 1113.8 | 1109.8 | 1103.2 | 1094.1 | 1085.0 | 1075.8 | 1066.7 | 1062.9 |
| 27.5° | 1083.4 | 1078.4 | 1073.3 | 1068.3 | 1063.2 | 1055.8 | 1046.0 | 1036.3 | 1026.5 | 1016.8 | 1012.1 |
| 30° | 1053.7 | 1048.1 | 1042.5 | 1037.0 | 1031.4 | 1023.4 | 1013.0 | 1002.5 | 991.9 | 981.5 | 975.9 |
| 32.5° | 1022.4 | 1016.2 | 1009.8 | 1003.5 | 997.3 | 988.7 | 977.9 | 967.0 | 956.2 | 945.4 | 939.0 |
| 35° | 973.5 | 966.4 | 959.2 | 952.1 | 945.0 | 935.9 | 924.7 | 913.5 | 902.4 | 891.3 | 883.7 |
| 37.5° | 921.1 | 913.8 | 906.4 | 899.1 | 891.7 | 881.9 | 869.6 | 857.2 | 844.9 | 832.5 | 824.1 |
| 40° | 884.3 | 876.9 | 869.6 | 862.2 | 854.9 | 844.8 | 832.1 | 819.4 | 806.7 | 794.0 | 784.7 |
| 42.5° | 848.9 | 841.2 | 833.6 | 825.9 | 818.1 | 807.7 | 794.5 | 781.2 | 768.0 | 754.7 | 745.2 |
| 45° | 794.0 | 785.8 | 777.5 | 769.3 | 761.0 | 750.3 | 736.9 | 723.5 | 710.1 | 696.8 | 685.9 |
| 47.5° | 737.3 | 728.8 | 720.3 | 711.7 | 703.2 | 692.0 | 678.2 | 664.2 | 650.4 | 636.4 | 625.1 |
| 50° | 698.8 | 690.1 | 681.4 | 672.7 | 664.0 | 652.5 | 638.3 | 624.1 | 609.7 | 595.5 | 584.4 |
| 52.5° | 659.5 | 651.0 | 642.4 | 634.0 | 625.5 | 613.9 | 599.3 | 584.7 | 570.0 | 555.4 | 544.1 |
| 55° | 601.5 | 592.6 | 583.7 | 574.8 | 565.9 | 554.2 | 539.7 | 525.2 | 510.8 | 496.2 | 484.7 |
| 57.5° | 544.2 | 534.9 | 525.7 | 516.4 | 507.1 | 495.3 | 481.1 | 466.8 | 452.6 | 438.3 | 426.6 |
| 60° | 503.3 | 494.4 | 485.5 | 476.5 | 467.6 | 456.1 | 441.8 | 427.5 | 413.3 | 399.0 | 387.4 |
| 62.5° | 466.4 | 457.1 | 447.9 | 438.6 | 429.3 | 417.4 | 402.7 | 388.1 | 373.5 | 358.9 | 348.2 |
| 65° | 409.1 | 399.4 | 389.8 | 380.3 | 370.7 | 358.8 | 344.5 | 330.3 | 316.0 | 301.8 | 292.2 |
| 67.5° | 349.5 | 340.4 | 331.1 | 322.0 | 312.7 | 301.6 | 288.3 | 275.1 | 261.8 | 248.6 | 240.3 |
| 70° | 311.8 | 302.5 | 293.0 | 283.7 | 274.4 | 263.3 | 250.6 | 237.9 | 225.3 | 212.5 | 205.2 |
| 72.5° | 271.7 | 263.3 | 254.8 | 246.3 | 237.8 | 227.6 | 215.7 | 203.6 | 191.6 | 179.6 | 173.3 |
| 75° | 217.5 | 209.3 | 201.0 | 192.8 | 184.5 | 175.2 | 164.8 | 154.3 | 143.8 | 133.4 | 128.2 |
| 77.5° | 162.6 | 155.6 | 148.6 | 141.7 | 134.6 | 126.9 | 118.5 | 110.0 | 101.5 | 93.0 | 90.0 |
| 80° | 127.3 | 120.8 | 114.4 | 107.9 | 101.5 | 94.9 | 88.2 | 81.5 | 74.8 | 68.1 | 67.5 |
| 82.5° | 96.9 | 91.0 | 85.0 | 79.1 | 73.1 | 68.2 | 64.5 | 60.6 | 56.7 | 53.0 | 52.4 |
| 85° | 54.1 | 49.7 | 45.2 | 40.8 | 36.3 | 33.7 | 33.1 | 32.4 | 31.8 | 31.1 | 30.6 |
| 87.5° | 18.6 | 17.3 | 16.2 | 14.9 | 13.6 | 12.8 | 13.3 | 13.1 | 13.1 | 13.2 | 12.9 |
| 90° | 0.6 | 1.6 | 3.2 | 3.8 | 4.3 | 4.3 | 7.5 | 7.5 | 8.6 | 9.7 | 9.1 |
| 92.5° | 6.1 | 9.0 | 13.9 | 20.5 | 28.4 | 39.6 | 66.9 | 108.6 | 149.3 | 170.5 | 142.0 |
| 95° | 17.7 | 19.3 | 24.7 | 31.8 | 44.6 | 67.2 | 114.0 | 202.2 | 330.6 | 438.2 | 450.5 |
| 97.5° | 31.9 | 31.9 | 36.5 | 42.9 | 54.0 | 73.0 | 109.0 | 181.7 | 309.5 | 461.6 | 566.1 |
| 100° | 40.9 | 40.9 | 44.6 | 51.1 | 61.3 | 78.5 | 110.2 | 171.0 | 280.7 | 432.3 | 570.0 |
| 102.5° | 49.5 | 50.3 | 53.6 | 59.7 | 69.5 | 85.8 | 114.5 | 168.0 | 261.3 | 395.8 | 537.6 |
| 105° | 62.9 | 64.6 | 67.2 | 73.7 | 83.3 | 99.0 | 124.7 | 169.4 | 244.7 | 352.7 | 479.1 |
| 107.5° | 77.8 | 78.8 | 81.5 | 88.4 | 97.6 | 113.0 | 136.7 | 177.3 | 241.7 | 328.7 | 431.8 |
| 110° | 87.7 | 88.7 | 91.4 | 97.8 | 107.5 | 122.1 | 145.7 | 183.3 | 242.5 | 320.5 | 408.1 |



TEST NUMBER: P332936-830

CATALOG NUMBER: S124RDIP-S795D590U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 97.1 | 98.2 | 101.3 | 107.4 | 117.0 | 131.5 | 154.3 | 189.8 | 245.1 | 316.6 | 394.7 |
| 115° | 110.7 | 112.4 | 116.1 | 121.5 | 131.8 | 146.3 | 167.8 | 200.0 | 250.1 | 314.5 | 382.3 |
| 117.5° | 125.0 | 126.5 | 129.8 | 135.7 | 145.2 | 160.3 | 180.8 | 210.5 | 255.2 | 314.0 | 376.7 |
| 120° | 134.4 | 135.5 | 139.2 | 145.2 | 154.3 | 169.4 | 189.8 | 217.7 | 259.2 | 314.0 | 373.7 |
| 122.5° | 143.0 | 144.1 | 147.9 | 153.4 | 163.3 | 178.0 | 198.4 | 224.6 | 263.1 | 313.6 | 370.2 |
| 125° | 154.3 | 156.5 | 159.7 | 165.6 | 175.8 | 190.9 | 210.2 | 235.0 | 268.8 | 312.9 | 364.6 |
| 127.5° | 164.3 | 166.1 | 169.9 | 176.6 | 187.3 | 202.5 | 221.2 | 243.9 | 273.4 | 311.7 | 356.9 |
| 130° | 169.9 | 172.0 | 176.3 | 184.5 | 194.6 | 210.2 | 228.5 | 249.5 | 276.9 | 311.3 | 352.1 |
| 132.5° | 175.5 | 177.2 | 182.9 | 190.5 | 201.5 | 216.2 | 234.5 | 255.1 | 279.9 | 310.9 | 347.9 |
| 135° | 183.3 | 185.5 | 190.9 | 200.0 | 211.3 | 225.3 | 243.0 | 262.4 | 284.5 | 310.2 | 341.4 |
| 137.5° | 191.2 | 193.2 | 199.2 | 207.8 | 219.6 | 232.9 | 249.5 | 267.6 | 287.1 | 310.1 | 335.8 |
| 140° | 196.8 | 198.4 | 204.3 | 213.5 | 224.7 | 237.6 | 253.8 | 271.0 | 289.3 | 309.7 | 332.8 |
| 142.5° | 202.8 | 204.4 | 209.9 | 218.6 | 229.5 | 242.0 | 257.7 | 273.5 | 291.0 | 309.7 | 330.3 |
| 145° | 211.3 | 212.9 | 218.3 | 225.8 | 236.0 | 247.9 | 261.8 | 276.4 | 292.0 | 308.6 | 325.8 |
| 147.5° | 220.8 | 221.4 | 226.1 | 233.8 | 242.4 | 253.1 | 266.2 | 278.8 | 292.5 | 306.7 | 321.9 |
| 150° | 226.9 | 227.4 | 231.8 | 238.2 | 246.3 | 256.5 | 268.3 | 280.1 | 292.5 | 305.4 | 318.9 |
| 152.5° | 232.5 | 232.6 | 236.9 | 242.9 | 250.2 | 259.5 | 270.0 | 281.0 | 291.6 | 303.2 | 315.4 |
| 155° | 240.3 | 240.9 | 244.1 | 249.5 | 255.4 | 263.4 | 272.6 | 281.7 | 290.3 | 300.0 | 310.2 |
| 157.5° | 248.0 | 248.0 | 251.0 | 255.1 | 260.3 | 266.6 | 274.5 | 281.7 | 289.0 | 296.7 | 305.0 |
| 160° | 252.7 | 252.7 | 254.9 | 258.6 | 262.9 | 268.8 | 275.3 | 281.7 | 287.7 | 294.1 | 301.1 |
| 162.5° | 257.0 | 256.6 | 258.3 | 261.6 | 265.5 | 270.1 | 276.2 | 281.7 | 286.3 | 291.5 | 297.7 |
| 165° | 261.8 | 261.8 | 262.9 | 265.6 | 268.3 | 271.5 | 276.4 | 280.7 | 283.9 | 287.7 | 292.0 |
| 167.5° | 266.6 | 266.2 | 266.6 | 268.7 | 270.2 | 272.7 | 276.3 | 279.4 | 281.3 | 283.8 | 286.8 |
| 170° | 268.8 | 268.3 | 268.8 | 270.4 | 271.5 | 273.1 | 275.8 | 278.5 | 279.6 | 281.2 | 283.3 |
| 172.5° | 271.0 | 270.4 | 270.5 | 271.7 | 272.4 | 273.5 | 275.4 | 277.7 | 277.9 | 278.6 | 280.3 |
| 175° | 273.1 | 272.6 | 272.6 | 273.1 | 273.7 | 273.7 | 274.8 | 276.4 | 275.8 | 275.8 | 276.9 |
| 177.5° | 274.1 | 273.7 | 273.2 | 273.7 | 273.7 | 273.7 | 274.1 | 274.9 | 274.1 | 274.1 | 274.6 |
| 180° | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 |



TEST NUMBER: P332936-830

CATALOG NUMBER: S124RDIP-S795D590U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 |
| 2.5° | 1304.5 | 1306.4 | 1308.3 | 1309.3 | 1309.1 | 1308.9 | 1308.7 | 1308.5 |
| 5° | 1295.7 | 1298.0 | 1300.2 | 1301.1 | 1300.6 | 1300.2 | 1299.8 | 1299.3 |
| 7.5° | 1278.5 | 1280.0 | 1281.4 | 1281.7 | 1281.0 | 1280.3 | 1279.6 | 1278.8 |
| 10° | 1263.0 | 1263.9 | 1264.8 | 1264.8 | 1263.9 | 1263.0 | 1262.1 | 1261.2 |
| 12.5° | 1243.9 | 1244.3 | 1244.9 | 1244.5 | 1243.3 | 1242.1 | 1240.8 | 1239.5 |
| 15° | 1210.2 | 1209.8 | 1209.3 | 1208.3 | 1206.7 | 1205.1 | 1203.6 | 1202.0 |
| 17.5° | 1169.7 | 1168.5 | 1167.2 | 1165.4 | 1163.0 | 1160.6 | 1158.3 | 1155.9 |
| 20° | 1141.3 | 1139.5 | 1137.7 | 1135.5 | 1132.6 | 1129.6 | 1126.7 | 1123.9 |
| 22.5° | 1109.9 | 1107.2 | 1104.6 | 1102.0 | 1099.7 | 1097.3 | 1095.0 | 1092.6 |
| 25° | 1059.1 | 1055.4 | 1051.6 | 1048.6 | 1046.3 | 1044.1 | 1041.9 | 1039.6 |
| 27.5° | 1007.4 | 1002.8 | 998.1 | 994.1 | 990.9 | 987.7 | 984.5 | 981.3 |
| 30° | 970.3 | 964.8 | 959.2 | 954.6 | 951.1 | 947.5 | 944.0 | 940.4 |
| 32.5° | 932.5 | 926.0 | 919.5 | 914.6 | 911.3 | 907.9 | 904.5 | 901.1 |
| 35° | 876.1 | 868.6 | 861.0 | 855.2 | 851.2 | 847.2 | 843.1 | 839.1 |
| 37.5° | 815.6 | 807.1 | 798.6 | 792.4 | 788.4 | 784.4 | 780.4 | 776.4 |
| 40° | 775.3 | 765.9 | 756.6 | 749.9 | 745.9 | 741.9 | 737.9 | 733.9 |
| 42.5° | 735.7 | 726.1 | 716.6 | 709.7 | 705.5 | 701.3 | 697.2 | 693.0 |
| 45° | 675.0 | 664.0 | 653.1 | 645.6 | 641.6 | 637.6 | 633.6 | 629.6 |
| 47.5° | 613.8 | 602.5 | 591.2 | 583.2 | 578.9 | 574.5 | 570.0 | 565.6 |
| 50° | 573.3 | 562.1 | 550.9 | 543.3 | 539.0 | 534.8 | 530.6 | 526.3 |
| 52.5° | 532.8 | 521.5 | 510.1 | 502.3 | 497.9 | 493.4 | 489.1 | 484.7 |
| 55° | 473.1 | 461.5 | 450.0 | 442.1 | 437.8 | 433.6 | 429.3 | 425.1 |
| 57.5° | 414.8 | 403.0 | 391.2 | 383.8 | 380.6 | 377.4 | 374.2 | 371.0 |
| 60° | 375.9 | 364.3 | 352.7 | 345.1 | 341.6 | 338.0 | 334.4 | 330.8 |
| 62.5° | 337.5 | 326.9 | 316.1 | 309.3 | 306.5 | 303.7 | 300.8 | 297.9 |
| 65° | 282.6 | 273.1 | 263.4 | 257.3 | 254.7 | 251.9 | 249.3 | 246.7 |
| 67.5° | 232.1 | 223.9 | 215.7 | 210.1 | 207.2 | 204.2 | 201.2 | 198.3 |
| 70° | 197.8 | 190.5 | 183.1 | 178.3 | 176.2 | 173.9 | 171.6 | 169.5 |
| 72.5° | 167.1 | 160.8 | 154.5 | 150.3 | 148.4 | 146.3 | 144.2 | 142.1 |
| 75° | 123.1 | 118.0 | 112.8 | 109.6 | 108.3 | 107.0 | 105.6 | 104.2 |
| 77.5° | 87.1 | 84.1 | 81.1 | 79.4 | 79.0 | 78.6 | 78.2 | 77.8 |
| 80° | 66.8 | 66.2 | 65.5 | 65.0 | 64.8 | 64.6 | 64.4 | 64.2 |
| 82.5° | 51.9 | 51.5 | 51.0 | 50.6 | 50.4 | 50.1 | 50.0 | 49.8 |
| 85° | 30.2 | 29.8 | 29.3 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 |
| 87.5° | 12.8 | 12.7 | 12.6 | 12.6 | 12.9 | 13.2 | 13.3 | 13.5 |
| 90° | 9.7 | 10.2 | 10.7 | 10.7 | 11.3 | 11.8 | 11.3 | 11.3 |
| 92.5° | 105.6 | 79.5 | 63.2 | 52.5 | 46.1 | 43.3 | 41.4 | 41.4 |
| 95° | 398.4 | 315.1 | 243.0 | 190.9 | 164.6 | 147.9 | 138.2 | 131.2 |
| 97.5° | 588.6 | 557.7 | 505.1 | 448.9 | 410.4 | 378.0 | 361.8 | 350.6 |
| 100° | 648.5 | 659.2 | 632.8 | 593.0 | 546.3 | 513.5 | 497.4 | 493.0 |
| 102.5° | 645.5 | 698.8 | 706.4 | 689.8 | 661.1 | 637.3 | 620.4 | 616.9 |
| 105° | 602.2 | 695.2 | 748.5 | 770.5 | 771.6 | 767.2 | 759.7 | 756.5 |
| 107.5° | 540.8 | 639.8 | 714.8 | 762.7 | 789.3 | 801.5 | 806.9 | 808.3 |
| 110° | 503.8 | 596.8 | 674.8 | 734.0 | 772.1 | 794.7 | 804.4 | 809.2 |



TEST NUMBER: P332936-830

CATALOG NUMBER: S124RDIP-S795D590U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 476.7 | 558.9 | 632.6 | 691.7 | 735.1 | 762.4 | 776.0 | 783.8 |
| 115° | 449.5 | 515.7 | 578.5 | 630.2 | 672.6 | 704.9 | 722.1 | 726.4 |
| 117.5° | 436.1 | 490.9 | 540.4 | 584.1 | 620.4 | 647.4 | 664.9 | 668.3 |
| 120° | 430.2 | 480.1 | 523.1 | 561.3 | 592.0 | 615.7 | 629.6 | 635.6 |
| 122.5° | 425.0 | 473.3 | 512.4 | 545.8 | 571.7 | 592.0 | 603.8 | 609.7 |
| 125° | 416.1 | 462.4 | 499.5 | 529.0 | 550.5 | 566.2 | 576.4 | 579.6 |
| 127.5° | 405.4 | 449.6 | 486.6 | 514.6 | 536.3 | 550.2 | 558.7 | 561.9 |
| 130° | 396.8 | 439.3 | 475.8 | 504.4 | 526.4 | 539.8 | 548.5 | 551.7 |
| 132.5° | 387.8 | 427.6 | 463.4 | 491.8 | 513.5 | 528.7 | 536.8 | 540.1 |
| 135° | 375.3 | 410.3 | 443.0 | 470.0 | 491.4 | 506.5 | 515.1 | 518.3 |
| 137.5° | 364.0 | 393.6 | 421.2 | 445.5 | 465.6 | 480.5 | 487.6 | 491.4 |
| 140° | 357.5 | 382.9 | 407.0 | 429.6 | 448.5 | 460.2 | 467.8 | 472.1 |
| 142.5° | 351.6 | 373.8 | 394.5 | 414.2 | 430.7 | 441.8 | 448.5 | 451.4 |
| 145° | 343.0 | 361.3 | 377.5 | 392.5 | 406.0 | 415.1 | 420.5 | 423.1 |
| 147.5° | 336.0 | 350.5 | 363.4 | 375.3 | 385.2 | 393.0 | 397.1 | 398.1 |
| 150° | 331.8 | 344.1 | 354.9 | 364.6 | 373.2 | 380.1 | 383.3 | 383.9 |
| 152.5° | 327.0 | 337.6 | 347.5 | 355.5 | 362.8 | 368.5 | 370.4 | 371.0 |
| 155° | 319.9 | 328.5 | 336.6 | 343.0 | 348.5 | 352.7 | 354.3 | 354.3 |
| 157.5° | 312.3 | 319.5 | 326.2 | 331.4 | 335.5 | 338.7 | 339.7 | 339.7 |
| 160° | 307.6 | 313.5 | 319.3 | 323.7 | 326.9 | 330.2 | 330.6 | 330.6 |
| 162.5° | 302.8 | 307.8 | 312.5 | 316.4 | 318.8 | 322.0 | 322.5 | 322.1 |
| 165° | 296.2 | 299.4 | 303.2 | 305.9 | 308.1 | 310.2 | 309.7 | 309.2 |
| 167.5° | 289.9 | 292.4 | 295.4 | 297.0 | 298.1 | 299.4 | 299.4 | 299.0 |
| 170° | 286.1 | 287.7 | 289.8 | 291.4 | 292.5 | 293.0 | 292.5 | 292.5 |
| 172.5° | 282.6 | 283.8 | 285.1 | 286.3 | 286.9 | 287.5 | 286.9 | 286.1 |
| 175° | 278.0 | 278.5 | 279.6 | 279.6 | 279.6 | 280.7 | 279.6 | 278.5 |
| 177.5° | 274.9 | 275.4 | 275.4 | 275.8 | 275.4 | 275.8 | 274.9 | 274.1 |
| 180° | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 |

(END OF REPORT)