

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: P332930-830

Luminaire Tested: **S124RDIP-S795D365U830-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332930-830
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-S795D365U830-4F0-1E-UDD-F4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4259.2 lumens
Efficiency: N/A
Efficacy: 121.7 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

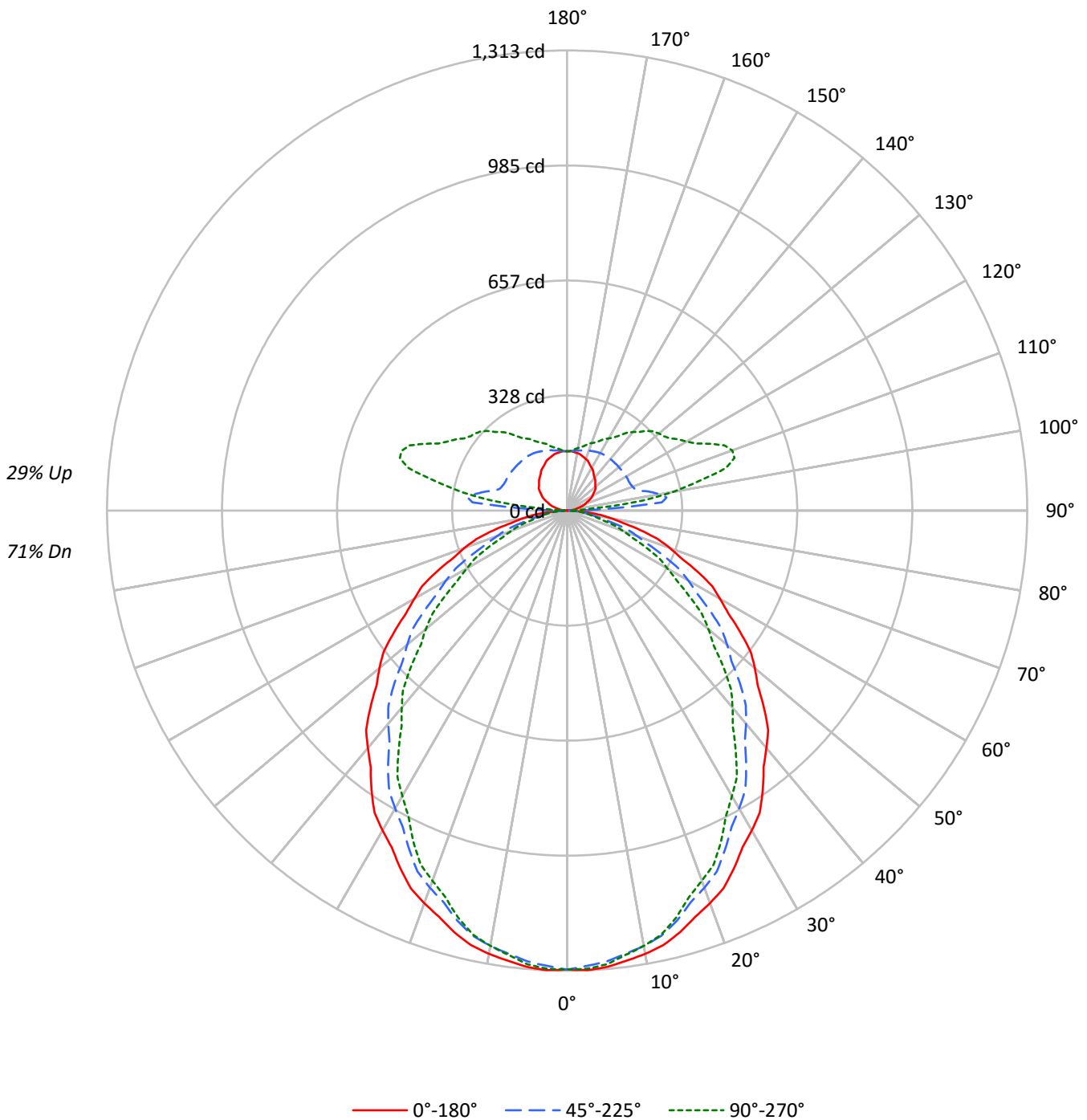
Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332930-830

CATALOG NUMBER: S124RDIP-S795D365U830-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332930-830

CATALOG NUMBER: S124RDIP-S795D365U830-4F0-1E-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 | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 85 | 85 | 85 | 75 | 75 | 75 | 71 |
| 1 | 103 | 99 | 95 | 91 | 97 | 94 | 90 | 87 | 84 | 81 | 79 | 75 | 73 | 72 | 67 | 66 | 65 | 61 |
| 2 | 94 | 87 | 80 | 75 | 89 | 82 | 77 | 72 | 74 | 70 | 66 | 67 | 63 | 60 | 60 | 57 | 55 | 51 |
| 3 | 86 | 76 | 69 | 63 | 81 | 73 | 66 | 61 | 66 | 60 | 56 | 59 | 55 | 52 | 53 | 50 | 47 | 44 |
| 4 | 79 | 68 | 60 | 54 | 75 | 65 | 58 | 52 | 59 | 53 | 48 | 53 | 48 | 45 | 48 | 44 | 41 | 38 |
| 5 | 73 | 61 | 53 | 47 | 69 | 58 | 51 | 45 | 53 | 47 | 42 | 48 | 43 | 39 | 43 | 39 | 36 | 33 |
| 6 | 67 | 55 | 47 | 41 | 63 | 52 | 45 | 39 | 48 | 41 | 37 | 43 | 38 | 34 | 39 | 35 | 32 | 29 |
| 7 | 62 | 50 | 42 | 36 | 59 | 48 | 40 | 35 | 44 | 37 | 33 | 40 | 34 | 31 | 36 | 32 | 28 | 26 |
| 8 | 58 | 45 | 37 | 32 | 55 | 43 | 36 | 31 | 40 | 34 | 29 | 36 | 31 | 27 | 33 | 29 | 26 | 23 |
| 9 | 54 | 42 | 34 | 29 | 51 | 40 | 33 | 28 | 37 | 31 | 26 | 34 | 28 | 25 | 31 | 26 | 23 | 21 |
| 10 | 51 | 38 | 31 | 26 | 48 | 37 | 30 | 25 | 34 | 28 | 24 | 31 | 26 | 23 | 29 | 24 | 21 | 19 |

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: P332930-830

CATALOG NUMBER: S124RDIP-S795D365U830-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 123.0 | 2.9 |
| 10°-20° | 343.0 | 8.1 |
| 20°-30° | 495.3 | 11.6 |
| 30°-40° | 561.4 | 13.2 |
| 40°-50° | 542.1 | 12.7 |
| 50°-60° | 450.8 | 10.6 |
| 60°-70° | 311.3 | 7.3 |
| 70°-80° | 157.8 | 3.7 |
| 80°-90° | 41.4 | 1.0 |
| 90°-100° | 122.5 | 2.9 |
| 100°-110° | 254.9 | 6.0 |
| 110°-120° | 228.3 | 5.4 |
| 120°-130° | 192.0 | 4.5 |
| 130°-140° | 160.1 | 3.8 |
| 140°-150° | 122.3 | 2.9 |
| 150°-160° | 86.0 | 2.0 |
| 160°-170° | 50.6 | 1.2 |
| 170°-180° | 16.5 | 0.4 |
| 0°-30° | 961.2 | 22.6 |
| 0°-40° | 1522.6 | 35.7 |
| 0°-60° | 2515.6 | 59.1 |
| 0°-90° | 3026.0 | 71.0 |
| 90°-120° | 605.7 | 14.2 |
| 90°-150° | 1080.2 | 25.4 |
| 90°-180° | 1233.0 | 28.9 |
| 0°-180° | 4259.2 | 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° | 0 | 3 | 6 | 7 | 7 | 3 |
| 95° | 11 | 35 | 272 | 134 | 81 | 12 |
| 105° | 39 | 56 | 218 | 471 | 469 | 42 |
| 115° | 69 | 86 | 195 | 374 | 450 | 68 |
| 125° | 96 | 114 | 194 | 319 | 359 | 85 |
| 135° | 114 | 135 | 192 | 283 | 321 | 88 |
| 145° | 131 | 150 | 191 | 238 | 262 | 82 |
| 155° | 149 | 161 | 186 | 210 | 220 | 69 |
| 165° | 162 | 167 | 178 | 189 | 192 | 46 |
| 175° | 169 | 170 | 171 | 173 | 173 | 16 |
| 180° | 170 | 170 | 170 | 170 | 170 | |



TEST NUMBER: P332930-830

CATALOG NUMBER: S124RDIP-S795D365U830-4F0-1E-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° | 18.5 | 17.2 | 16.0 | 14.6 | 13.3 | 12.4 | 12.7 | 12.5 | 12.4 | 12.4 | 12.2 |
| 90° | 0.4 | 1.0 | 2.0 | 2.4 | 2.6 | 2.6 | 4.6 | 4.6 | 5.4 | 6.0 | 5.7 |
| 92.5° | 3.8 | 5.6 | 8.7 | 12.7 | 17.6 | 24.5 | 41.5 | 67.3 | 92.5 | 105.7 | 88.0 |
| 95° | 11.0 | 12.0 | 15.4 | 19.7 | 27.6 | 41.7 | 70.6 | 125.3 | 204.9 | 271.5 | 279.2 |
| 97.5° | 19.7 | 19.7 | 22.6 | 26.6 | 33.5 | 45.1 | 67.5 | 112.6 | 191.7 | 286.0 | 350.7 |
| 100° | 25.4 | 25.4 | 27.6 | 31.7 | 38.0 | 48.6 | 68.3 | 105.9 | 173.9 | 267.9 | 353.1 |
| 102.5° | 30.6 | 31.2 | 33.3 | 36.9 | 43.1 | 53.2 | 71.0 | 104.1 | 161.9 | 245.2 | 333.1 |
| 105° | 39.0 | 40.0 | 41.7 | 45.6 | 51.7 | 61.3 | 77.3 | 104.9 | 151.6 | 218.5 | 296.8 |
| 107.5° | 48.2 | 48.8 | 50.5 | 54.8 | 60.5 | 70.0 | 84.6 | 109.9 | 149.7 | 203.6 | 267.5 |
| 110° | 54.3 | 55.0 | 56.6 | 60.6 | 66.6 | 75.6 | 90.3 | 113.6 | 150.2 | 198.5 | 252.9 |



TEST NUMBER: P332930-830

CATALOG NUMBER: S124RDIP-S795D365U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 60.1 | 60.8 | 62.8 | 66.4 | 72.5 | 81.4 | 95.6 | 117.6 | 151.8 | 196.1 | 244.6 |
| 115° | 68.6 | 69.7 | 71.9 | 75.3 | 81.6 | 90.6 | 104.0 | 123.9 | 154.9 | 194.9 | 236.9 |
| 117.5° | 77.4 | 78.3 | 80.4 | 84.1 | 90.0 | 99.3 | 112.0 | 130.4 | 158.2 | 194.5 | 233.4 |
| 120° | 83.3 | 84.0 | 86.2 | 89.9 | 95.6 | 104.9 | 117.6 | 134.9 | 160.6 | 194.5 | 231.5 |
| 122.5° | 88.6 | 89.3 | 91.6 | 95.0 | 101.2 | 110.3 | 122.9 | 139.2 | 163.0 | 194.3 | 229.4 |
| 125° | 95.6 | 96.9 | 99.0 | 102.6 | 109.0 | 118.3 | 130.3 | 145.5 | 166.5 | 193.9 | 225.8 |
| 127.5° | 101.8 | 102.8 | 105.3 | 109.4 | 116.0 | 125.5 | 137.0 | 151.1 | 169.5 | 193.1 | 221.1 |
| 130° | 105.3 | 106.6 | 109.2 | 114.2 | 120.6 | 130.3 | 141.6 | 154.6 | 171.5 | 192.8 | 218.2 |
| 132.5° | 108.8 | 109.8 | 113.3 | 118.0 | 124.9 | 133.9 | 145.3 | 158.1 | 173.4 | 192.7 | 215.6 |
| 135° | 113.6 | 114.9 | 118.3 | 123.9 | 130.9 | 139.6 | 150.5 | 162.6 | 176.3 | 192.2 | 211.5 |
| 137.5° | 118.5 | 119.7 | 123.4 | 128.8 | 136.0 | 144.3 | 154.6 | 165.8 | 177.9 | 192.2 | 208.1 |
| 140° | 122.0 | 122.9 | 126.6 | 132.2 | 139.2 | 147.2 | 157.2 | 167.9 | 179.2 | 191.9 | 206.2 |
| 142.5° | 125.6 | 126.7 | 130.1 | 135.4 | 142.1 | 149.9 | 159.7 | 169.5 | 180.3 | 191.9 | 204.6 |
| 145° | 130.9 | 132.0 | 135.3 | 139.9 | 146.3 | 153.5 | 162.2 | 171.3 | 180.9 | 191.2 | 201.9 |
| 147.5° | 136.9 | 137.1 | 140.2 | 144.9 | 150.1 | 156.7 | 164.9 | 172.8 | 181.3 | 190.0 | 199.4 |
| 150° | 140.5 | 140.9 | 143.5 | 147.6 | 152.6 | 158.9 | 166.3 | 173.5 | 181.3 | 189.2 | 197.6 |
| 152.5° | 144.0 | 144.1 | 146.8 | 150.5 | 155.0 | 160.8 | 167.3 | 174.1 | 180.7 | 187.8 | 195.4 |
| 155° | 148.9 | 149.2 | 151.3 | 154.6 | 158.3 | 163.2 | 168.9 | 174.6 | 179.9 | 185.9 | 192.2 |
| 157.5° | 153.6 | 153.6 | 155.5 | 158.1 | 161.3 | 165.2 | 170.0 | 174.6 | 179.0 | 183.8 | 189.0 |
| 160° | 156.6 | 156.6 | 157.9 | 160.2 | 162.9 | 166.5 | 170.6 | 174.6 | 178.2 | 182.2 | 186.5 |
| 162.5° | 159.2 | 159.0 | 160.0 | 162.1 | 164.5 | 167.4 | 171.1 | 174.6 | 177.4 | 180.6 | 184.5 |
| 165° | 162.2 | 162.2 | 162.9 | 164.6 | 166.3 | 168.2 | 171.3 | 173.9 | 175.9 | 178.2 | 180.9 |
| 167.5° | 165.2 | 164.9 | 165.2 | 166.5 | 167.4 | 169.0 | 171.2 | 173.1 | 174.3 | 175.8 | 177.7 |
| 170° | 166.5 | 166.3 | 166.5 | 167.6 | 168.2 | 169.2 | 170.9 | 172.6 | 173.2 | 174.2 | 175.6 |
| 172.5° | 167.9 | 167.6 | 167.6 | 168.3 | 168.7 | 169.5 | 170.6 | 172.0 | 172.2 | 172.6 | 173.7 |
| 175° | 169.2 | 168.9 | 168.9 | 169.2 | 169.6 | 169.6 | 170.2 | 171.3 | 170.9 | 170.9 | 171.5 |
| 177.5° | 169.8 | 169.6 | 169.3 | 169.6 | 169.6 | 169.6 | 169.8 | 170.3 | 169.8 | 169.8 | 170.1 |
| 180° | 169.6 | 169.6 | 169.6 | 169.6 | 169.6 | 169.6 | 169.6 | 169.6 | 169.6 | 169.6 | 169.6 |



TEST NUMBER: P332930-830

CATALOG NUMBER: S124RDIP-S795D365U830-4F0-1E-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° | 12.1 | 12.0 | 11.9 | 11.9 | 12.1 | 12.3 | 12.4 | 12.6 |
| 90° | 6.0 | 6.3 | 6.7 | 6.7 | 7.0 | 7.4 | 7.0 | 7.0 |
| 92.5° | 65.4 | 49.2 | 39.2 | 32.5 | 28.6 | 26.8 | 25.6 | 25.6 |
| 95° | 246.9 | 195.2 | 150.5 | 118.3 | 101.9 | 91.6 | 85.6 | 81.2 |
| 97.5° | 364.7 | 345.5 | 312.9 | 278.1 | 254.2 | 234.2 | 224.2 | 217.3 |
| 100° | 401.7 | 408.4 | 392.1 | 367.4 | 338.5 | 318.1 | 308.1 | 305.5 |
| 102.5° | 399.9 | 432.9 | 437.6 | 427.3 | 409.6 | 394.9 | 384.4 | 382.2 |
| 105° | 373.1 | 430.7 | 463.7 | 477.4 | 478.1 | 475.3 | 470.7 | 468.7 |
| 107.5° | 335.1 | 396.4 | 442.8 | 472.6 | 489.0 | 496.6 | 499.9 | 500.8 |
| 110° | 312.2 | 369.8 | 418.1 | 454.7 | 478.3 | 492.4 | 498.3 | 501.3 |



TEST NUMBER: P332930-830

CATALOG NUMBER: S124RDIP-S795D365U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 295.3 | 346.3 | 391.9 | 428.6 | 455.4 | 472.4 | 480.8 | 485.6 |
| 115° | 278.5 | 319.4 | 358.4 | 390.4 | 416.7 | 436.7 | 447.4 | 450.1 |
| 117.5° | 270.2 | 304.2 | 334.8 | 361.9 | 384.4 | 401.1 | 411.9 | 414.0 |
| 120° | 266.5 | 297.5 | 324.1 | 347.8 | 366.7 | 381.4 | 390.1 | 393.8 |
| 122.5° | 263.3 | 293.2 | 317.4 | 338.2 | 354.2 | 366.7 | 374.1 | 377.8 |
| 125° | 257.9 | 286.4 | 309.4 | 327.8 | 341.1 | 350.8 | 357.1 | 359.1 |
| 127.5° | 251.2 | 278.5 | 301.5 | 318.9 | 332.2 | 340.8 | 346.2 | 348.2 |
| 130° | 245.8 | 272.2 | 294.8 | 312.5 | 326.1 | 334.4 | 339.8 | 341.8 |
| 132.5° | 240.3 | 264.9 | 287.1 | 304.7 | 318.1 | 327.5 | 332.6 | 334.6 |
| 135° | 232.5 | 254.2 | 274.5 | 291.2 | 304.4 | 313.8 | 319.1 | 321.1 |
| 137.5° | 225.6 | 243.8 | 261.0 | 276.0 | 288.5 | 297.7 | 302.1 | 304.4 |
| 140° | 221.5 | 237.1 | 252.1 | 266.2 | 277.9 | 285.1 | 289.8 | 292.5 |
| 142.5° | 217.8 | 231.6 | 244.4 | 256.6 | 266.9 | 273.7 | 277.9 | 279.7 |
| 145° | 212.5 | 223.9 | 233.8 | 243.2 | 251.5 | 257.1 | 260.5 | 262.1 |
| 147.5° | 208.2 | 217.2 | 225.2 | 232.5 | 238.7 | 243.6 | 246.0 | 246.7 |
| 150° | 205.6 | 213.2 | 219.9 | 225.8 | 231.2 | 235.5 | 237.5 | 237.8 |
| 152.5° | 202.6 | 209.2 | 215.4 | 220.3 | 224.8 | 228.3 | 229.5 | 229.9 |
| 155° | 198.2 | 203.5 | 208.5 | 212.5 | 215.8 | 218.5 | 219.5 | 219.5 |
| 157.5° | 193.5 | 197.9 | 202.2 | 205.4 | 207.8 | 209.9 | 210.5 | 210.5 |
| 160° | 190.6 | 194.2 | 197.8 | 200.6 | 202.6 | 204.5 | 204.9 | 204.9 |
| 162.5° | 187.7 | 190.8 | 193.6 | 196.0 | 197.5 | 199.4 | 199.8 | 199.5 |
| 165° | 183.5 | 185.6 | 187.8 | 189.5 | 190.9 | 192.2 | 191.9 | 191.5 |
| 167.5° | 179.6 | 181.2 | 183.0 | 184.0 | 184.6 | 185.6 | 185.5 | 185.2 |
| 170° | 177.2 | 178.2 | 179.6 | 180.6 | 181.3 | 181.5 | 181.3 | 181.3 |
| 172.5° | 175.1 | 175.8 | 176.6 | 177.4 | 177.8 | 178.0 | 177.8 | 177.2 |
| 175° | 172.2 | 172.6 | 173.2 | 173.2 | 173.2 | 173.9 | 173.2 | 172.6 |
| 177.5° | 170.3 | 170.6 | 170.6 | 170.9 | 170.6 | 170.9 | 170.3 | 169.8 |
| 180° | 169.6 | 169.6 | 169.6 | 169.6 | 169.6 | 169.6 | 169.6 | 169.6 |

(END OF REPORT)