

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: P334196

Luminaire Tested: **SA4XXRDP-C575D830-4F0-1E-UDD-A**

Issue Date: 10/11/2019

Test Information

Test Method: LM-79-08
Report Number: P334196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-31)
Test Lab: INNOVATIONS CENTER
Issue Date: 10/11/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XRDP-C575D830-4F0-1E-UDD-A
Description: DEFINE 4 REGRESSED DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 575 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

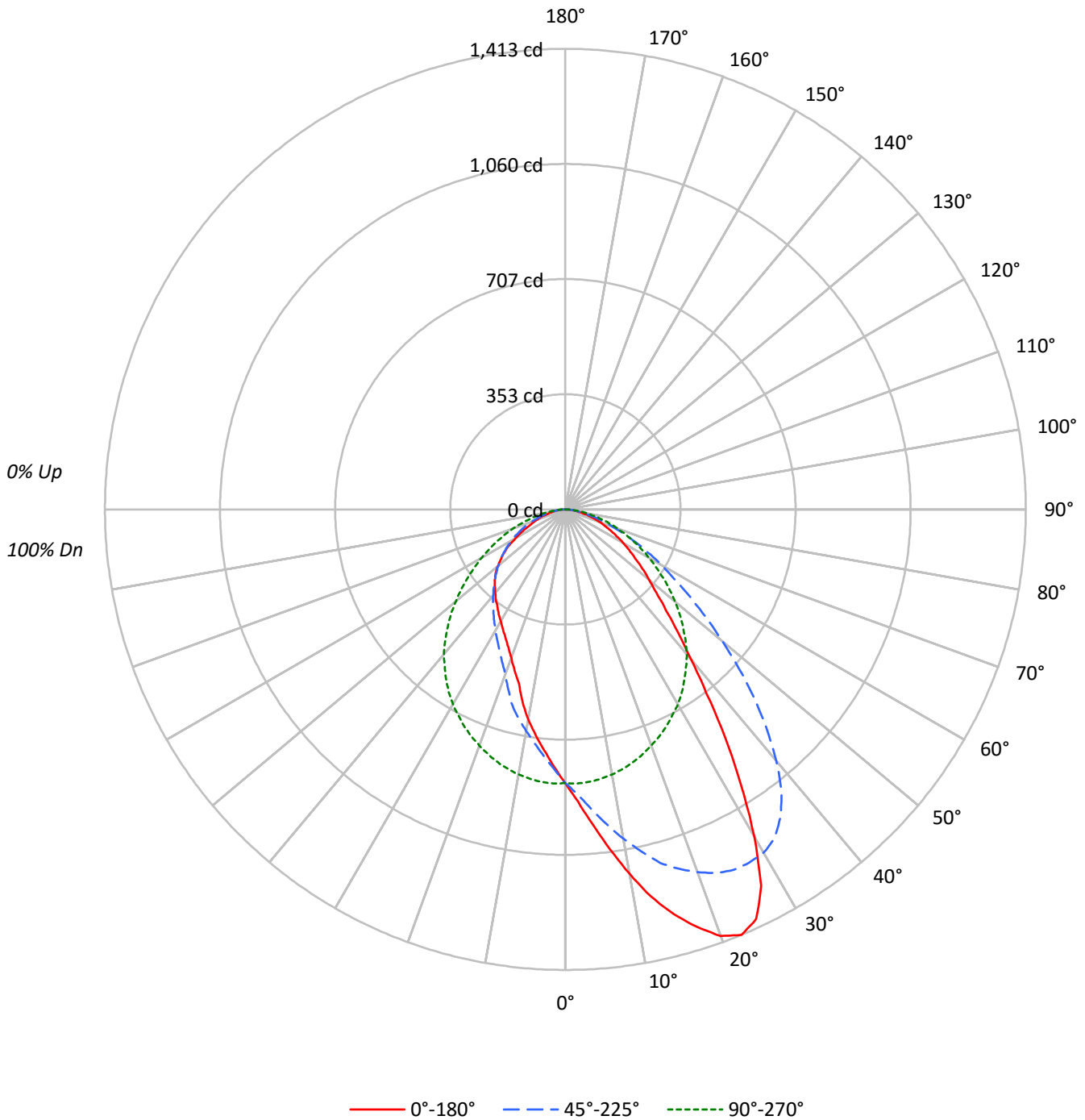
Lumens per Lamp: N/A
Luminaire Lumens: 2123.1 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 18.8
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: P334196
CATALOG NUMBER: SA4XXRDP-C575D830-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P334196

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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 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 93 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | 74 |
| 3 | 93 | 83 | 76 | 70 | 90 | 81 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 73 | 69 | 65 | 63 |
| 4 | 85 | 74 | 66 | 60 | 83 | 73 | 65 | 59 | 71 | 64 | 59 | 68 | 63 | 58 | 66 | 61 | 57 | 55 |
| 5 | 79 | 67 | 58 | 52 | 77 | 66 | 58 | 52 | 64 | 57 | 51 | 62 | 56 | 51 | 60 | 55 | 50 | 48 |
| 6 | 73 | 61 | 52 | 46 | 71 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 43 |
| 7 | 68 | 55 | 47 | 41 | 66 | 54 | 47 | 41 | 53 | 46 | 41 | 52 | 45 | 40 | 50 | 44 | 40 | 38 |
| 8 | 64 | 51 | 42 | 37 | 62 | 50 | 42 | 37 | 49 | 42 | 37 | 47 | 41 | 36 | 46 | 40 | 36 | 34 |
| 9 | 59 | 47 | 39 | 33 | 58 | 46 | 38 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 10 | 56 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|------|------|
| 0° | 6780 | 6780 | 6780 |
| 5° | 7865 | 6801 | 6011 |
| 10° | 9303 | 6771 | 5364 |
| 15° | 10747 | 6709 | 4610 |
| 20° | 11966 | 6622 | 4168 |
| 25° | 12352 | 6538 | 3870 |
| 30° | 10813 | 6435 | 3691 |
| 35° | 8417 | 6283 | 3581 |
| 40° | 6311 | 6109 | 3523 |
| 45° | 4983 | 5829 | 3492 |
| 50° | 4207 | 5507 | 3391 |
| 55° | 3668 | 5153 | 3210 |
| 60° | 3300 | 4786 | 2842 |
| 65° | 2909 | 4390 | 2443 |
| 70° | 2620 | 3977 | 2205 |
| 75° | 2196 | 3525 | 1878 |
| 80° | 1855 | 3003 | 1762 |
| 85° | 1565 | 2353 | 1565 |



TEST NUMBER: P334196

CATALOG NUMBER: SA4XXRDP-C575D830-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 81.3 | 3.8 |
| 10°-20° | 245.6 | 11.6 |
| 20°-30° | 384.7 | 18.1 |
| 30°-40° | 427.2 | 20.1 |
| 40°-50° | 378.6 | 17.8 |
| 50°-60° | 295.0 | 13.9 |
| 60°-70° | 193.0 | 9.1 |
| 70°-80° | 94.7 | 4.5 |
| 80°-90° | 23.1 | 1.1 |
| 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° | 711.6 | 33.5 |
| 0°-40° | 1138.8 | 53.6 |
| 0°-60° | 1812.4 | 85.4 |
| 0°-90° | 2123.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2123.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 840 | 840 | 840 | 840 | 840 | |
| 5° | 970 | 924 | 839 | 759 | 742 | 98 |
| 15° | 1286 | 1123 | 803 | 625 | 552 | 366 |
| 25° | 1387 | 1221 | 734 | 478 | 434 | 619 |
| 35° | 854 | 1152 | 638 | 384 | 363 | 535 |
| 45° | 436 | 821 | 511 | 306 | 306 | 344 |
| 55° | 261 | 464 | 366 | 230 | 228 | 237 |
| 65° | 152 | 239 | 230 | 149 | 128 | 153 |
| 75° | 70 | 91 | 113 | 72 | 60 | 77 |
| 85° | 17 | 18 | 25 | 18 | 17 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P334196

CATALOG NUMBER: SA4XXRDP-C575D830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 |
| 2.5° | 897.4 | 900.4 | 897.4 | 897.1 | 893.7 | 892.7 | 891.3 | 886.9 | 878.8 | 874.1 | 875.1 |
| 5° | 970.5 | 979.0 | 974.2 | 973.5 | 966.1 | 958.6 | 953.9 | 943.1 | 931.6 | 923.8 | 917.4 |
| 7.5° | 1051.7 | 1056.8 | 1053.4 | 1049.7 | 1036.8 | 1032.8 | 1021.6 | 1008.7 | 989.4 | 974.9 | 961.7 |
| 10° | 1134.9 | 1139.0 | 1137.7 | 1128.9 | 1120.1 | 1102.1 | 1092.0 | 1072.0 | 1046.0 | 1025.3 | 1006.0 |
| 12.5° | 1216.8 | 1221.2 | 1206.7 | 1209.4 | 1190.8 | 1177.6 | 1160.0 | 1133.6 | 1102.5 | 1074.4 | 1049.0 |
| 15° | 1285.9 | 1280.5 | 1280.5 | 1273.7 | 1255.1 | 1235.4 | 1218.9 | 1192.5 | 1154.6 | 1122.8 | 1089.3 |
| 17.5° | 1342.7 | 1345.1 | 1342.4 | 1325.1 | 1311.6 | 1291.6 | 1261.8 | 1231.7 | 1198.9 | 1156.3 | 1123.1 |
| 20° | 1392.8 | 1392.8 | 1389.8 | 1378.9 | 1360.0 | 1338.3 | 1305.5 | 1272.0 | 1227.3 | 1184.4 | 1145.8 |
| 22.5° | 1413.1 | 1414.5 | 1410.7 | 1402.3 | 1385.7 | 1364.7 | 1338.0 | 1303.8 | 1257.4 | 1207.7 | 1157.6 |
| 25° | 1386.7 | 1393.1 | 1393.8 | 1391.4 | 1386.4 | 1373.5 | 1349.5 | 1314.6 | 1273.3 | 1220.9 | 1169.5 |
| 27.5° | 1301.4 | 1309.9 | 1313.3 | 1320.7 | 1334.6 | 1339.7 | 1336.6 | 1313.3 | 1273.3 | 1221.6 | 1170.5 |
| 30° | 1160.0 | 1166.8 | 1188.8 | 1217.5 | 1239.8 | 1260.2 | 1277.7 | 1282.5 | 1262.2 | 1216.8 | 1162.4 |
| 32.5° | 1003.0 | 1012.8 | 1034.8 | 1066.3 | 1107.2 | 1145.1 | 1190.1 | 1214.1 | 1218.5 | 1195.9 | 1146.5 |
| 35° | 854.1 | 860.9 | 881.2 | 913.6 | 958.3 | 1009.4 | 1072.0 | 1120.7 | 1153.9 | 1151.5 | 1120.7 |
| 37.5° | 711.3 | 720.8 | 741.4 | 768.1 | 812.1 | 877.4 | 936.7 | 1002.0 | 1061.5 | 1090.6 | 1075.1 |
| 40° | 598.9 | 599.3 | 619.2 | 647.0 | 687.6 | 742.8 | 808.7 | 883.2 | 951.5 | 1007.4 | 1018.2 |
| 42.5° | 510.3 | 510.3 | 521.8 | 552.2 | 578.6 | 629.7 | 692.0 | 765.8 | 848.7 | 915.3 | 948.5 |
| 45° | 436.5 | 439.6 | 450.4 | 468.3 | 491.3 | 535.3 | 585.7 | 654.4 | 744.1 | 820.6 | 868.3 |
| 47.5° | 378.3 | 383.7 | 390.2 | 406.4 | 425.4 | 456.1 | 499.1 | 563.4 | 637.9 | 722.8 | 788.8 |
| 50° | 335.0 | 335.7 | 344.5 | 352.6 | 368.5 | 391.9 | 428.4 | 479.8 | 546.8 | 627.7 | 703.2 |
| 52.5° | 297.8 | 297.4 | 301.8 | 312.7 | 324.9 | 341.8 | 369.5 | 415.2 | 472.7 | 543.1 | 621.6 |
| 55° | 260.6 | 262.2 | 266.3 | 274.4 | 284.2 | 297.1 | 320.5 | 355.6 | 402.3 | 464.3 | 535.0 |
| 57.5° | 232.1 | 233.1 | 236.9 | 239.9 | 249.4 | 258.9 | 277.8 | 303.2 | 344.1 | 395.9 | 465.3 |
| 60° | 204.4 | 204.7 | 205.7 | 210.8 | 217.9 | 226.7 | 238.6 | 259.2 | 292.4 | 338.7 | 390.8 |
| 62.5° | 177.3 | 178.0 | 179.7 | 183.1 | 188.1 | 193.6 | 206.1 | 221.6 | 247.7 | 285.6 | 331.3 |
| 65° | 152.3 | 152.6 | 155.0 | 156.3 | 160.7 | 166.1 | 175.3 | 186.5 | 205.4 | 238.6 | 274.1 |
| 67.5° | 131.3 | 131.3 | 131.3 | 133.3 | 136.7 | 140.4 | 146.5 | 156.0 | 171.2 | 192.5 | 225.7 |
| 70° | 111.0 | 111.0 | 111.7 | 112.7 | 114.4 | 117.4 | 120.5 | 127.2 | 137.7 | 154.3 | 178.3 |
| 72.5° | 92.0 | 92.4 | 93.1 | 93.1 | 93.7 | 96.1 | 98.1 | 101.9 | 109.0 | 120.5 | 138.7 |
| 75° | 70.4 | 71.4 | 73.1 | 74.4 | 76.1 | 75.8 | 78.2 | 80.9 | 83.2 | 90.7 | 101.9 |
| 77.5° | 55.5 | 54.8 | 54.8 | 56.2 | 56.5 | 56.8 | 58.5 | 60.9 | 62.9 | 67.0 | 71.1 |
| 80° | 39.9 | 39.9 | 40.9 | 41.3 | 40.9 | 41.3 | 43.0 | 44.0 | 44.7 | 46.0 | 49.7 |
| 82.5° | 27.7 | 28.4 | 27.7 | 28.1 | 28.4 | 28.8 | 30.1 | 30.1 | 30.8 | 31.1 | 32.1 |
| 85° | 16.9 | 17.3 | 17.6 | 16.9 | 16.9 | 16.9 | 17.6 | 17.9 | 18.6 | 18.3 | 18.9 |
| 87.5° | 7.4 | 7.1 | 7.4 | 7.4 | 7.8 | 7.4 | 7.8 | 8.5 | 7.8 | 8.1 | 8.1 |
| 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: P334196

CATALOG NUMBER: SA4XXRDP-C575D830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 |
| 2.5° | 871.7 | 866.9 | 864.6 | 859.2 | 852.7 | 849.3 | 846.3 | 841.9 | 836.2 | 830.1 | 825.7 |
| 5° | 909.2 | 901.1 | 891.0 | 878.8 | 868.0 | 857.5 | 848.3 | 839.2 | 828.7 | 817.9 | 807.1 |
| 7.5° | 946.5 | 931.9 | 916.3 | 897.7 | 879.8 | 863.2 | 848.3 | 833.8 | 817.2 | 802.3 | 788.4 |
| 10° | 985.7 | 964.1 | 940.0 | 914.7 | 889.3 | 867.3 | 845.6 | 826.0 | 804.3 | 785.1 | 768.8 |
| 12.5° | 1017.5 | 991.1 | 961.0 | 927.9 | 896.0 | 868.3 | 842.6 | 815.5 | 790.1 | 768.8 | 745.8 |
| 15° | 1053.4 | 1018.5 | 979.6 | 941.7 | 902.1 | 865.9 | 832.4 | 802.7 | 774.6 | 745.1 | 724.5 |
| 17.5° | 1078.1 | 1037.8 | 991.8 | 947.8 | 902.5 | 860.5 | 822.6 | 788.1 | 756.0 | 726.5 | 702.2 |
| 20° | 1099.8 | 1054.1 | 1001.6 | 949.9 | 897.4 | 851.7 | 810.1 | 770.8 | 737.3 | 704.9 | 679.5 |
| 22.5° | 1111.9 | 1060.2 | 1001.6 | 946.8 | 892.0 | 841.6 | 794.9 | 753.6 | 716.4 | 683.9 | 655.1 |
| 25° | 1112.6 | 1058.5 | 999.9 | 937.7 | 878.1 | 825.7 | 778.3 | 734.0 | 693.4 | 660.9 | 631.1 |
| 27.5° | 1109.9 | 1047.3 | 988.4 | 925.1 | 863.9 | 808.1 | 759.0 | 712.0 | 671.7 | 637.2 | 606.7 |
| 30° | 1101.8 | 1033.4 | 969.1 | 902.8 | 840.6 | 787.4 | 735.0 | 690.3 | 648.0 | 611.8 | 581.0 |
| 32.5° | 1084.2 | 1016.5 | 946.1 | 877.8 | 814.5 | 759.3 | 710.3 | 665.3 | 624.0 | 586.8 | 553.6 |
| 35° | 1059.8 | 991.1 | 916.0 | 846.3 | 784.4 | 727.5 | 680.8 | 637.5 | 597.9 | 558.3 | 523.8 |
| 37.5° | 1031.7 | 960.0 | 885.9 | 809.4 | 747.8 | 693.7 | 650.0 | 608.4 | 569.8 | 533.6 | 495.4 |
| 40° | 988.4 | 924.5 | 847.3 | 771.5 | 707.9 | 656.1 | 616.5 | 579.7 | 540.7 | 504.9 | 466.6 |
| 42.5° | 936.0 | 883.9 | 805.7 | 729.6 | 667.0 | 617.6 | 581.3 | 545.5 | 511.0 | 476.4 | 436.2 |
| 45° | 876.4 | 835.1 | 762.0 | 689.0 | 625.7 | 576.3 | 542.4 | 510.6 | 479.5 | 446.3 | 408.8 |
| 47.5° | 810.1 | 779.6 | 716.0 | 639.5 | 580.3 | 535.0 | 502.5 | 476.1 | 448.7 | 415.2 | 381.4 |
| 50° | 740.4 | 722.5 | 661.5 | 593.2 | 537.4 | 496.4 | 462.9 | 438.5 | 416.6 | 384.7 | 355.3 |
| 52.5° | 665.9 | 658.5 | 609.4 | 544.8 | 491.3 | 451.4 | 424.0 | 402.7 | 380.3 | 355.3 | 328.2 |
| 55° | 590.1 | 595.2 | 551.6 | 495.1 | 444.3 | 410.5 | 384.4 | 366.1 | 347.2 | 324.9 | 303.5 |
| 57.5° | 511.3 | 530.6 | 498.1 | 447.0 | 397.9 | 366.1 | 346.2 | 329.9 | 314.0 | 295.1 | 275.8 |
| 60° | 441.9 | 457.5 | 440.9 | 397.3 | 355.6 | 326.5 | 308.3 | 296.4 | 280.5 | 263.6 | 249.7 |
| 62.5° | 374.3 | 391.2 | 383.1 | 349.9 | 312.0 | 288.0 | 272.4 | 261.6 | 250.7 | 236.5 | 222.0 |
| 65° | 319.8 | 330.6 | 325.9 | 301.5 | 274.1 | 252.8 | 237.9 | 229.8 | 218.9 | 208.1 | 195.2 |
| 67.5° | 255.8 | 277.1 | 273.8 | 260.2 | 233.8 | 216.9 | 206.4 | 199.0 | 188.8 | 180.7 | 171.6 |
| 70° | 201.3 | 220.6 | 220.3 | 209.8 | 196.9 | 181.4 | 174.6 | 168.5 | 159.7 | 151.9 | 144.8 |
| 72.5° | 155.7 | 172.9 | 176.3 | 168.9 | 161.1 | 150.2 | 143.8 | 140.1 | 131.6 | 126.9 | 121.5 |
| 75° | 115.4 | 128.2 | 131.6 | 131.6 | 127.6 | 121.5 | 115.7 | 113.0 | 106.9 | 102.2 | 98.8 |
| 77.5° | 81.2 | 90.0 | 95.1 | 96.1 | 96.4 | 94.1 | 88.7 | 86.6 | 81.9 | 80.2 | 76.5 |
| 80° | 53.5 | 58.9 | 65.0 | 67.0 | 68.7 | 68.0 | 66.0 | 64.6 | 60.2 | 58.5 | 57.2 |
| 82.5° | 32.8 | 35.2 | 39.9 | 45.0 | 44.0 | 46.4 | 44.7 | 43.7 | 40.6 | 40.3 | 38.9 |
| 85° | 19.3 | 19.6 | 20.3 | 23.3 | 25.0 | 25.7 | 26.1 | 25.4 | 24.4 | 24.4 | 22.0 |
| 87.5° | 8.1 | 7.8 | 8.5 | 8.5 | 8.8 | 10.2 | 11.2 | 11.5 | 10.5 | 9.5 | 8.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 | 839.9 |
| 2.5° | 820.9 | 817.5 | 813.1 | 808.1 | 802.0 | 796.6 | 794.2 | 796.2 | 797.2 | 794.5 | 794.2 |
| 5° | 799.6 | 791.1 | 784.4 | 774.2 | 766.1 | 759.3 | 754.6 | 752.6 | 753.2 | 747.8 | 746.5 |
| 7.5° | 775.9 | 766.8 | 755.6 | 744.1 | 733.3 | 723.8 | 718.7 | 716.4 | 710.6 | 708.2 | 704.5 |
| 10° | 753.2 | 739.7 | 728.9 | 714.7 | 701.8 | 690.0 | 684.2 | 679.5 | 673.7 | 671.0 | 665.3 |
| 12.5° | 729.9 | 713.7 | 701.5 | 686.6 | 673.4 | 658.5 | 653.1 | 643.3 | 633.5 | 627.0 | 619.2 |
| 15° | 708.2 | 689.3 | 674.7 | 657.1 | 641.6 | 625.3 | 610.8 | 594.5 | 588.5 | 575.6 | 568.2 |
| 17.5° | 682.5 | 662.9 | 646.7 | 624.0 | 600.6 | 581.0 | 564.8 | 547.8 | 538.7 | 529.9 | 526.2 |
| 20° | 657.1 | 639.5 | 614.5 | 587.1 | 560.4 | 538.0 | 525.5 | 515.4 | 505.2 | 499.5 | 495.4 |
| 22.5° | 633.1 | 609.4 | 579.3 | 549.2 | 522.5 | 506.2 | 496.1 | 485.6 | 477.8 | 472.4 | 466.6 |
| 25° | 605.7 | 576.3 | 545.5 | 511.6 | 493.4 | 478.1 | 466.6 | 458.2 | 453.1 | 446.0 | 443.3 |
| 27.5° | 579.0 | 543.4 | 508.6 | 485.6 | 466.6 | 452.1 | 441.6 | 435.5 | 428.7 | 424.0 | 420.3 |
| 30° | 547.2 | 511.0 | 480.5 | 458.9 | 439.6 | 428.1 | 419.9 | 412.5 | 407.4 | 403.7 | 401.0 |
| 32.5° | 515.7 | 479.5 | 455.1 | 431.4 | 417.2 | 406.1 | 397.3 | 392.2 | 388.5 | 383.4 | 382.0 |
| 35° | 485.6 | 453.4 | 431.1 | 410.1 | 394.6 | 384.4 | 377.6 | 371.9 | 368.5 | 367.1 | 366.1 |
| 37.5° | 456.1 | 429.4 | 404.7 | 387.8 | 373.2 | 365.5 | 356.7 | 354.0 | 351.6 | 348.5 | 349.9 |
| 40° | 428.4 | 403.7 | 382.4 | 364.1 | 352.9 | 344.1 | 339.4 | 336.0 | 334.0 | 334.0 | 334.0 |
| 42.5° | 404.4 | 380.3 | 359.7 | 343.8 | 332.6 | 325.5 | 320.1 | 317.4 | 317.1 | 316.7 | 318.8 |
| 45° | 379.3 | 357.0 | 336.0 | 322.5 | 313.0 | 305.6 | 302.5 | 300.1 | 300.1 | 301.5 | 301.8 |
| 47.5° | 354.3 | 333.3 | 316.4 | 300.8 | 292.0 | 287.3 | 284.6 | 283.2 | 283.2 | 284.9 | 286.3 |
| 50° | 331.6 | 311.0 | 294.4 | 280.9 | 272.7 | 268.3 | 266.0 | 265.3 | 266.0 | 266.0 | 268.3 |
| 52.5° | 306.9 | 289.0 | 272.7 | 261.9 | 252.4 | 248.4 | 247.4 | 246.3 | 246.7 | 248.0 | 248.7 |
| 55° | 282.9 | 266.3 | 250.7 | 239.9 | 233.1 | 230.4 | 227.4 | 227.7 | 227.1 | 227.7 | 227.7 |
| 57.5° | 258.5 | 244.0 | 228.7 | 220.0 | 214.2 | 210.1 | 206.8 | 207.8 | 206.8 | 206.8 | 206.4 |
| 60° | 235.2 | 218.9 | 207.4 | 199.6 | 192.9 | 189.5 | 186.5 | 187.1 | 186.1 | 185.4 | 184.1 |
| 62.5° | 209.8 | 196.9 | 186.1 | 178.7 | 173.6 | 169.5 | 166.5 | 165.5 | 162.8 | 160.1 | 156.7 |
| 65° | 185.4 | 174.3 | 164.5 | 157.3 | 152.3 | 149.2 | 146.9 | 144.8 | 139.8 | 134.3 | 131.6 |
| 67.5° | 161.4 | 153.3 | 143.8 | 137.7 | 133.7 | 129.6 | 125.2 | 121.5 | 116.4 | 113.0 | 111.3 |
| 70° | 138.4 | 130.6 | 122.8 | 117.1 | 112.7 | 109.0 | 103.9 | 101.5 | 98.1 | 96.8 | 95.1 |
| 72.5° | 116.4 | 109.3 | 102.2 | 97.1 | 92.4 | 89.7 | 86.0 | 83.6 | 82.6 | 82.2 | 80.5 |
| 75° | 94.1 | 88.3 | 82.9 | 78.2 | 74.4 | 72.4 | 70.7 | 69.0 | 68.4 | 65.3 | 63.6 |
| 77.5° | 72.4 | 68.4 | 65.0 | 61.2 | 58.9 | 57.5 | 53.8 | 51.4 | 50.1 | 48.4 | 48.1 |
| 80° | 53.5 | 50.8 | 47.4 | 45.3 | 41.6 | 40.3 | 38.9 | 38.6 | 38.2 | 37.9 | 37.6 |
| 82.5° | 36.9 | 34.2 | 30.8 | 29.8 | 29.4 | 28.8 | 28.1 | 27.7 | 27.4 | 27.7 | 27.7 |
| 85° | 20.3 | 18.9 | 18.9 | 18.6 | 18.3 | 17.9 | 17.6 | 17.6 | 17.3 | 17.6 | 17.3 |
| 87.5° | 8.5 | 8.1 | 8.1 | 7.4 | 7.8 | 7.8 | 7.4 | 7.4 | 7.8 | 7.1 | 7.1 |
| 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: P334196

CATALOG NUMBER: SA4XXRDP-C575D830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 839.9 | 839.9 | 839.9 | 839.9 |
| 2.5° | 792.2 | 792.8 | 790.5 | 789.8 |
| 5° | 743.8 | 743.1 | 741.4 | 741.7 |
| 7.5° | 701.8 | 699.4 | 701.1 | 698.4 |
| 10° | 663.9 | 660.2 | 657.1 | 654.4 |
| 12.5° | 612.1 | 609.1 | 604.7 | 606.4 |
| 15° | 563.8 | 558.7 | 550.6 | 551.6 |
| 17.5° | 520.4 | 521.1 | 516.4 | 517.7 |
| 20° | 488.3 | 485.9 | 486.3 | 485.2 |
| 22.5° | 466.0 | 462.9 | 459.9 | 457.5 |
| 25° | 440.2 | 438.2 | 435.2 | 434.5 |
| 27.5° | 417.6 | 417.2 | 415.9 | 414.2 |
| 30° | 398.3 | 397.6 | 396.9 | 395.9 |
| 32.5° | 381.0 | 380.7 | 380.0 | 380.3 |
| 35° | 364.8 | 364.4 | 363.8 | 363.4 |
| 37.5° | 349.6 | 350.6 | 349.9 | 349.9 |
| 40° | 333.6 | 334.0 | 334.7 | 334.3 |
| 42.5° | 320.5 | 320.5 | 321.5 | 320.1 |
| 45° | 304.2 | 306.2 | 305.9 | 305.9 |
| 47.5° | 287.0 | 289.3 | 289.7 | 289.7 |
| 50° | 270.0 | 269.4 | 270.4 | 270.0 |
| 52.5° | 249.4 | 249.7 | 249.4 | 249.1 |
| 55° | 228.1 | 228.4 | 227.7 | 228.1 |
| 57.5° | 205.4 | 204.0 | 205.1 | 204.4 |
| 60° | 180.7 | 178.0 | 177.3 | 176.0 |
| 62.5° | 153.0 | 151.3 | 148.6 | 150.2 |
| 65° | 128.9 | 127.6 | 126.6 | 127.9 |
| 67.5° | 109.6 | 109.0 | 109.0 | 108.3 |
| 70° | 95.1 | 94.1 | 94.1 | 93.4 |
| 72.5° | 80.2 | 79.2 | 79.5 | 79.2 |
| 75° | 61.6 | 59.9 | 59.9 | 60.2 |
| 77.5° | 48.1 | 47.7 | 48.4 | 47.4 |
| 80° | 37.6 | 37.2 | 36.9 | 37.9 |
| 82.5° | 27.1 | 27.1 | 27.1 | 28.4 |
| 85° | 17.6 | 16.9 | 17.6 | 16.9 |
| 87.5° | 7.8 | 7.4 | 7.1 | 7.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)