

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: P332305-930

Luminaire Tested: **S123RDIP-S775D365U930-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332305-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S775D365U930-4F0-1E-UDD-F4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 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: 3449.8 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.06 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Semi-Direct

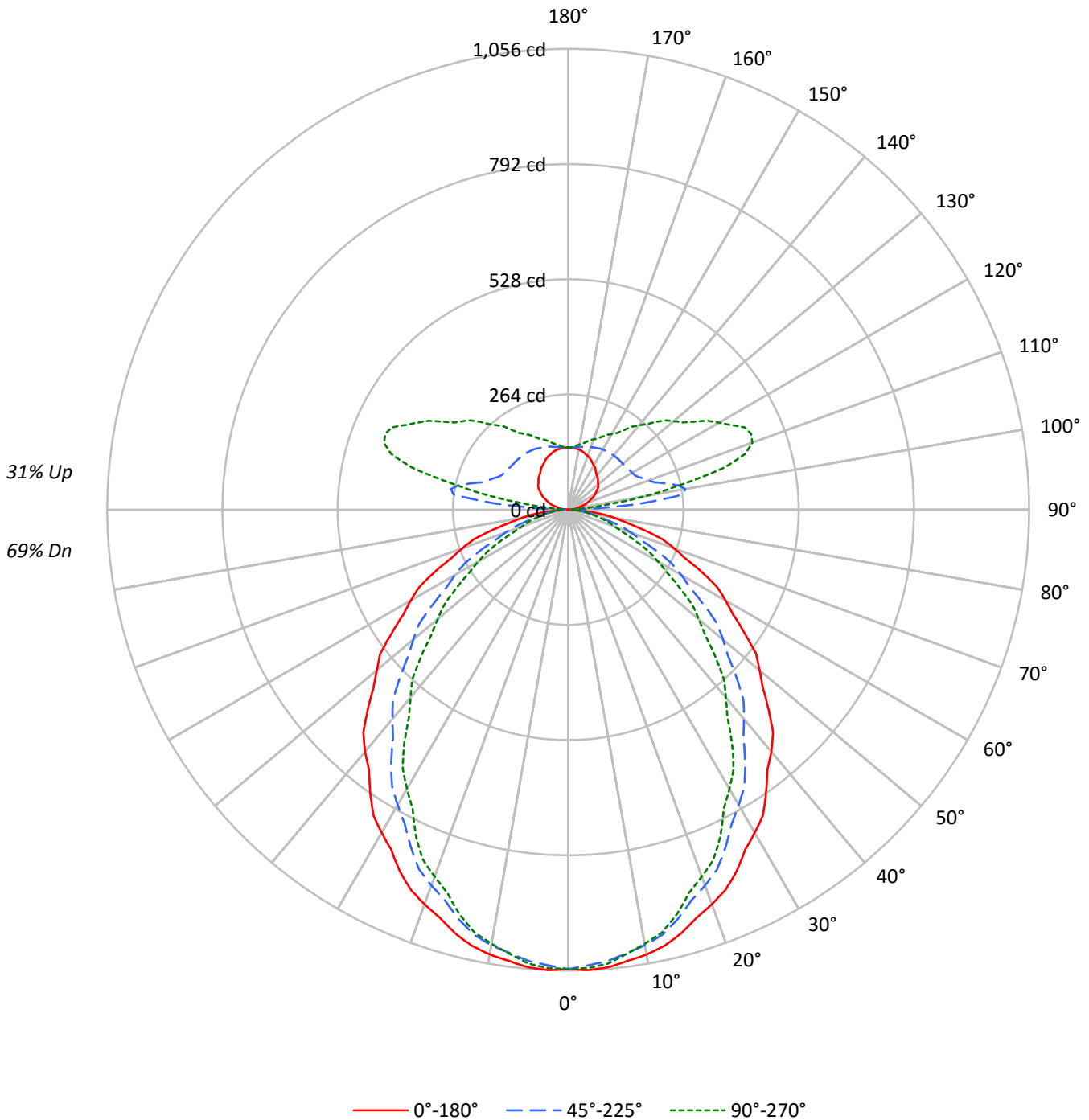
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |   |
| 0   | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 105 | 94 | 94 | 94 | 83 | 83 | 83 | 74 | 74 | 74 | 69 |    |    |    |    |    |   |  |   |
| 1   | 102 | 98  | 94  | 91  | 97  | 93  | 90  | 87  | 83 | 81 | 78 | 74 | 72 | 70 | 66 | 64 | 63 | 59 |    |    |    |    |    |   |  |   |
| 2   | 94  | 86  | 80  | 75  | 88  | 82  | 76  | 72  | 73 | 69 | 66 | 66 | 62 | 60 | 58 | 56 | 54 | 50 |    |    |    |    |    |   |  |   |
| 3   | 86  | 76  | 69  | 63  | 81  | 72  | 66  | 61  | 65 | 60 | 56 | 58 | 54 | 51 | 52 | 49 | 46 | 43 |    |    |    |    |    |   |  |   |
| 4   | 79  | 68  | 60  | 54  | 74  | 65  | 57  | 52  | 58 | 52 | 48 | 52 | 48 | 44 | 47 | 43 | 40 | 37 |    |    |    |    |    |   |  |   |
| 5   | 73  | 61  | 53  | 47  | 68  | 58  | 50  | 45  | 52 | 46 | 42 | 47 | 42 | 38 | 42 | 38 | 35 | 33 |    |    |    |    |    |   |  |   |
| 6   | 67  | 55  | 47  | 41  | 63  | 52  | 45  | 39  | 47 | 41 | 37 | 43 | 38 | 34 | 39 | 35 | 31 | 29 |    |    |    |    |    |   |  |   |
| 7   | 62  | 50  | 42  | 36  | 59  | 47  | 40  | 35  | 43 | 37 | 33 | 39 | 34 | 30 | 35 | 31 | 28 | 26 |    |    |    |    |    |   |  |   |
| 8   | 58  | 45  | 37  | 32  | 55  | 43  | 36  | 31  | 40 | 33 | 29 | 36 | 31 | 27 | 33 | 28 | 25 | 23 |    |    |    |    |    |   |  |   |
| 9   | 54  | 42  | 34  | 29  | 51  | 40  | 33  | 28  | 36 | 30 | 26 | 33 | 28 | 25 | 30 | 26 | 23 | 21 |    |    |    |    |    |   |  |   |
| 10  | 51  | 38  | 31  | 26  | 48  | 37  | 30  | 25  | 34 | 28 | 24 | 31 | 26 | 22 | 28 | 24 | 21 | 19 |    |    |    |    |    |   |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11330 | 11330 | 11330 |
| 5°  | 11373 | 11217 | 11282 |
| 10° | 11309 | 11075 | 11038 |
| 15° | 11188 | 10816 | 10702 |
| 20° | 11021 | 10493 | 10247 |
| 25° | 10849 | 10128 | 9804  |
| 30° | 10621 | 9708  | 9178  |
| 35° | 10387 | 9289  | 8604  |
| 40° | 10172 | 8792  | 7893  |
| 45° | 9889  | 8304  | 7252  |
| 50° | 9577  | 7748  | 6532  |
| 55° | 9259  | 7112  | 5863  |
| 60° | 8968  | 6433  | 5126  |
| 65° | 8588  | 5695  | 4391  |
| 70° | 8113  | 4784  | 3547  |
| 75° | 7419  | 3764  | 3335  |
| 80° | 6614  | 3335  | 3068  |
| 85° | 5582  | 2952  | 2742  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 98.8   | 2.9       |
| 10°-20°   | 275.0  | 8.0       |
| 20°-30°   | 396.0  | 11.5      |
| 30°-40°   | 446.1  | 12.9      |
| 40°-50°   | 426.7  | 12.4      |
| 50°-60°   | 349.5  | 10.1      |
| 60°-70°   | 235.8  | 6.8       |
| 70°-80°   | 118.6  | 3.4       |
| 80°-90°   | 32.5   | 0.9       |
| 90°-100°  | 79.2   | 2.3       |
| 100°-110° | 224.3  | 6.5       |
| 110°-120° | 220.6  | 6.4       |
| 120°-130° | 176.0  | 5.1       |
| 130°-140° | 138.8  | 4.0       |
| 140°-150° | 103.6  | 3.0       |
| 150°-160° | 72.2   | 2.1       |
| 160°-170° | 42.4   | 1.2       |
| 170°-180° | 13.8   | 0.4       |
| 0°-30°    | 769.9  | 22.3      |
| 0°-40°    | 1215.9 | 35.2      |
| 0°-60°    | 1992.1 | 57.7      |
| 0°-90°    | 2379.0 | 69.0      |
| 90°-120°  | 524.1  | 15.2      |
| 90°-150°  | 942.4  | 27.3      |
| 90°-180°  | 1071.0 | 31.0      |
| 0°-180°   | 3449.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1053 | 1053  | 1053 | 1053  | 1053 |      |
| 5°   | 1053 | 1048  | 1038 | 1045  | 1044 | 100  |
| 15°  | 1004 | 994   | 971  | 966   | 960  | 283  |
| 25°  | 914  | 891   | 853  | 835   | 826  | 420  |
| 35°  | 790  | 759   | 707  | 671   | 655  | 495  |
| 45°  | 650  | 610   | 546  | 498   | 476  | 501  |
| 55°  | 493  | 450   | 379  | 331   | 312  | 442  |
| 65°  | 337  | 289   | 224  | 184   | 172  | 334  |
| 75°  | 178  | 137   | 90   | 82    | 80   | 190  |
| 85°  | 45   | 27    | 24   | 22    | 22   | 51   |
| 90°  | 1    | 4     | 7    | 8     | 8    | 3    |
| 95°  | 10   | 32    | 171  | 50    | 33   | 11   |
| 105° | 33   | 49    | 232  | 405   | 366  | 36   |
| 115° | 59   | 74    | 177  | 388   | 446  | 58   |
| 125° | 82   | 97    | 165  | 300   | 352  | 73   |
| 135° | 96   | 115   | 163  | 247   | 285  | 74   |
| 145° | 110  | 126   | 161  | 202   | 223  | 69   |
| 155° | 125  | 135   | 156  | 177   | 185  | 57   |
| 165° | 136  | 140   | 149  | 158   | 161  | 38   |
| 175° | 142  | 142   | 143  | 145   | 145  | 13   |
| 180° | 142  | 142   | 142  | 142   | 142  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 |
| 2.5°   | 1056.0 | 1055.4 | 1054.8 | 1054.2 | 1053.6 | 1052.4 | 1050.5 | 1048.7 | 1046.9 | 1045.1 | 1046.8 |
| 5°     | 1052.6 | 1051.7 | 1050.7 | 1049.8 | 1048.8 | 1047.2 | 1044.9 | 1042.6 | 1040.3 | 1038.1 | 1039.8 |
| 7.5°   | 1042.8 | 1041.9 | 1040.8 | 1039.8 | 1038.8 | 1036.7 | 1033.8 | 1030.9 | 1027.9 | 1024.9 | 1025.9 |
| 10°    | 1034.7 | 1033.3 | 1032.0 | 1030.7 | 1029.3 | 1027.0 | 1023.5 | 1020.2 | 1016.8 | 1013.3 | 1013.5 |
| 12.5°  | 1023.0 | 1021.6 | 1020.1 | 1018.6 | 1017.2 | 1014.3 | 1010.2 | 1006.0 | 1001.8 | 997.6  | 997.5  |
| 15°    | 1004.0 | 1001.8 | 999.7  | 997.7  | 995.6  | 991.9  | 986.6  | 981.3  | 975.9  | 970.6  | 969.7  |
| 17.5°  | 979.8  | 977.5  | 975.0  | 972.6  | 970.1  | 965.6  | 958.8  | 952.0  | 945.3  | 938.6  | 936.5  |
| 20°    | 962.1  | 959.0  | 956.0  | 953.0  | 950.0  | 944.9  | 937.6  | 930.4  | 923.2  | 916.0  | 913.5  |
| 22.5°  | 942.3  | 938.8  | 935.3  | 931.8  | 928.3  | 922.8  | 915.1  | 907.4  | 899.8  | 892.1  | 889.0  |
| 25°    | 913.5  | 908.7  | 903.9  | 899.2  | 894.5  | 887.7  | 879.0  | 870.3  | 861.5  | 852.8  | 848.8  |
| 27.5°  | 878.4  | 873.2  | 868.0  | 862.7  | 857.5  | 850.0  | 840.3  | 830.6  | 820.8  | 811.1  | 805.6  |
| 30°    | 854.5  | 848.8  | 843.2  | 837.5  | 831.8  | 823.6  | 813.0  | 802.3  | 791.7  | 781.1  | 774.7  |
| 32.5°  | 830.6  | 824.2  | 817.7  | 811.3  | 804.9  | 796.0  | 784.7  | 773.6  | 762.3  | 751.1  | 744.0  |
| 35°    | 790.5  | 783.7  | 776.8  | 770.1  | 763.2  | 753.9  | 742.2  | 730.3  | 718.6  | 706.9  | 698.7  |
| 37.5°  | 749.9  | 742.2  | 734.7  | 727.1  | 719.5  | 709.5  | 696.9  | 684.4  | 671.8  | 659.3  | 650.0  |
| 40°    | 723.9  | 715.6  | 707.2  | 698.9  | 690.6  | 679.6  | 666.2  | 652.7  | 639.2  | 625.7  | 615.9  |
| 42.5°  | 694.6  | 686.2  | 677.8  | 669.5  | 661.2  | 650.0  | 636.1  | 622.2  | 608.3  | 594.4  | 583.6  |
| 45°    | 649.6  | 641.2  | 632.6  | 624.0  | 615.5  | 604.0  | 589.3  | 574.7  | 560.1  | 545.5  | 534.7  |
| 47.5°  | 604.8  | 595.4  | 586.0  | 576.7  | 567.3  | 555.3  | 540.7  | 526.0  | 511.4  | 496.8  | 485.1  |
| 50°    | 571.9  | 563.0  | 554.2  | 545.2  | 536.3  | 524.2  | 508.8  | 493.4  | 478.1  | 462.7  | 450.9  |
| 52.5°  | 542.6  | 533.0  | 523.3  | 513.6  | 503.9  | 491.5  | 476.2  | 461.1  | 445.8  | 430.6  | 418.4  |
| 55°    | 493.4  | 484.1  | 474.8  | 465.5  | 456.2  | 443.5  | 427.4  | 411.3  | 395.2  | 379.0  | 368.0  |
| 57.5°  | 448.0  | 437.9  | 427.8  | 417.6  | 407.5  | 394.4  | 378.1  | 361.9  | 345.7  | 329.5  | 319.1  |
| 60°    | 416.6  | 406.2  | 395.7  | 385.3  | 374.9  | 361.7  | 346.0  | 330.3  | 314.5  | 298.8  | 288.5  |
| 62.5°  | 385.1  | 374.7  | 364.3  | 353.8  | 343.5  | 330.4  | 314.6  | 298.9  | 283.2  | 267.3  | 257.7  |
| 65°    | 337.2  | 326.8  | 316.3  | 305.9  | 295.5  | 282.8  | 268.1  | 253.2  | 238.5  | 223.6  | 214.3  |
| 67.5°  | 289.3  | 278.7  | 268.2  | 257.6  | 247.0  | 234.6  | 220.5  | 206.3  | 192.1  | 177.9  | 171.0  |
| 70°    | 257.8  | 247.6  | 237.3  | 227.1  | 216.9  | 205.0  | 191.8  | 178.6  | 165.3  | 152.0  | 145.3  |
| 72.5°  | 226.4  | 216.3  | 206.2  | 196.1  | 186.1  | 175.0  | 162.9  | 150.8  | 138.8  | 126.7  | 121.2  |
| 75°    | 178.4  | 169.3  | 160.2  | 151.1  | 142.0  | 132.2  | 121.8  | 111.4  | 100.9  | 90.5   | 88.6   |
| 77.5°  | 134.7  | 126.5  | 118.2  | 110.0  | 101.7  | 94.3   | 87.6   | 80.9   | 74.2   | 67.4   | 66.4   |
| 80°    | 106.7  | 98.9   | 91.2   | 83.4   | 75.6   | 69.7   | 65.7   | 61.7   | 57.8   | 53.8   | 53.2   |
| 82.5°  | 80.1   | 73.4   | 66.6   | 59.9   | 53.2   | 48.9   | 47.0   | 45.2   | 43.4   | 41.5   | 40.9   |
| 85°    | 45.2   | 41.1   | 36.9   | 32.7   | 28.5   | 26.2   | 25.6   | 25.0   | 24.5   | 23.9   | 23.6   |
| 87.5°  | 16.5   | 14.9   | 13.4   | 11.9   | 10.4   | 9.6    | 9.8    | 9.9    | 10.1   | 10.4   | 10.1   |
| 90°    | 0.6    | 1.1    | 1.7    | 2.6    | 3.2    | 3.8    | 4.6    | 5.5    | 6.4    | 7.2    | 6.9    |
| 92.5°  | 3.6    | 5.3    | 7.7    | 9.9    | 12.4   | 16.6   | 24.2   | 36.6   | 48.8   | 44.3   | 33.4   |
| 95°    | 9.8    | 10.7   | 13.9   | 18.8   | 26.3   | 37.4   | 62.0   | 104.8  | 152.1  | 170.9  | 138.6  |
| 97.5°  | 16.7   | 17.0   | 19.5   | 23.7   | 31.1   | 43.3   | 66.7   | 115.0  | 193.9  | 264.8  | 283.2  |
| 100°   | 21.4   | 21.6   | 23.6   | 27.6   | 34.6   | 45.8   | 66.0   | 108.6  | 184.4  | 272.9  | 329.6  |
| 102.5° | 26.2   | 26.7   | 28.5   | 32.3   | 38.5   | 48.8   | 66.9   | 103.1  | 170.6  | 257.9  | 331.9  |
| 105°   | 33.4   | 34.3   | 36.0   | 39.5   | 44.9   | 53.9   | 69.5   | 99.1   | 153.6  | 231.6  | 314.3  |
| 107.5° | 41.2   | 42.0   | 43.7   | 47.0   | 52.2   | 60.5   | 74.2   | 98.8   | 142.8  | 208.5  | 283.6  |
| 110°   | 46.6   | 47.5   | 49.0   | 52.2   | 57.1   | 65.1   | 78.1   | 100.0  | 138.6  | 195.3  | 264.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 51.8  | 52.6  | 54.1  | 57.2  | 62.1  | 70.0  | 82.0  | 102.3 | 136.2 | 186.5 | 247.4 |
| 115°   | 59.0  | 60.3  | 62.0  | 64.8  | 69.7  | 77.5  | 88.5  | 106.0 | 135.4 | 177.2 | 227.1 |
| 117.5° | 66.4  | 67.7  | 69.1  | 71.8  | 77.3  | 84.5  | 95.3  | 111.0 | 135.9 | 171.6 | 214.7 |
| 120°   | 71.4  | 72.3  | 73.8  | 76.6  | 82.1  | 89.3  | 99.7  | 114.6 | 136.9 | 169.1 | 208.3 |
| 122.5° | 75.8  | 76.7  | 78.1  | 81.3  | 86.5  | 94.2  | 104.3 | 118.1 | 138.4 | 167.5 | 203.0 |
| 125°   | 82.1  | 82.7  | 84.4  | 87.6  | 93.0  | 100.9 | 111.0 | 123.6 | 140.9 | 165.3 | 196.2 |
| 127.5° | 86.9  | 87.7  | 89.9  | 93.1  | 99.1  | 107.0 | 116.7 | 128.1 | 143.7 | 164.4 | 190.2 |
| 130°   | 89.9  | 90.7  | 93.4  | 96.8  | 102.9 | 110.6 | 120.2 | 131.1 | 145.5 | 163.6 | 186.9 |
| 132.5° | 92.2  | 93.3  | 96.1  | 100.3 | 106.3 | 113.9 | 123.1 | 133.9 | 146.9 | 163.4 | 184.0 |
| 135°   | 96.2  | 97.3  | 100.5 | 104.8 | 111.0 | 118.7 | 127.6 | 137.5 | 149.0 | 163.1 | 180.1 |
| 137.5° | 100.0 | 101.3 | 104.4 | 108.9 | 115.0 | 122.1 | 130.8 | 140.1 | 150.3 | 162.4 | 176.7 |
| 140°   | 102.6 | 104.0 | 106.9 | 111.5 | 117.2 | 124.5 | 132.8 | 141.5 | 151.2 | 162.2 | 174.6 |
| 142.5° | 105.3 | 106.6 | 109.7 | 113.8 | 119.6 | 126.3 | 134.4 | 142.8 | 152.0 | 161.8 | 172.8 |
| 145°   | 109.7 | 110.6 | 113.2 | 117.6 | 122.5 | 129.1 | 136.6 | 144.3 | 152.4 | 161.0 | 170.2 |
| 147.5° | 114.3 | 114.8 | 117.3 | 121.1 | 125.8 | 131.4 | 138.3 | 145.3 | 152.4 | 160.0 | 167.9 |
| 150°   | 117.2 | 117.6 | 119.8 | 123.6 | 127.6 | 132.8 | 139.4 | 145.5 | 152.4 | 159.1 | 166.2 |
| 152.5° | 120.3 | 120.3 | 122.6 | 125.9 | 129.5 | 134.4 | 140.1 | 145.9 | 151.7 | 157.9 | 164.4 |
| 155°   | 124.7 | 124.7 | 126.5 | 129.4 | 132.6 | 136.6 | 141.5 | 146.1 | 151.0 | 155.9 | 161.6 |
| 157.5° | 128.3 | 128.6 | 130.0 | 132.5 | 135.2 | 138.3 | 142.2 | 146.3 | 150.0 | 154.1 | 158.5 |
| 160°   | 131.1 | 131.1 | 132.2 | 134.5 | 136.6 | 139.4 | 142.9 | 146.3 | 149.5 | 152.7 | 156.5 |
| 162.5° | 133.1 | 133.1 | 134.1 | 135.9 | 137.7 | 140.1 | 143.2 | 146.1 | 148.6 | 151.3 | 154.3 |
| 165°   | 136.2 | 136.0 | 136.6 | 138.0 | 139.2 | 141.2 | 143.5 | 145.5 | 147.2 | 149.3 | 151.6 |
| 167.5° | 138.6 | 138.3 | 138.6 | 139.7 | 140.5 | 141.8 | 143.4 | 145.0 | 145.9 | 147.2 | 148.9 |
| 170°   | 140.0 | 139.4 | 139.7 | 140.6 | 141.2 | 141.8 | 143.2 | 144.3 | 145.0 | 145.8 | 147.2 |
| 172.5° | 141.0 | 140.6 | 140.6 | 141.3 | 141.6 | 141.9 | 143.2 | 144.1 | 144.2 | 144.6 | 145.6 |
| 175°   | 142.0 | 141.8 | 141.5 | 142.0 | 142.0 | 142.4 | 142.9 | 143.5 | 143.2 | 143.2 | 143.7 |
| 177.5° | 142.6 | 142.4 | 142.1 | 142.4 | 142.4 | 142.4 | 142.6 | 143.0 | 142.6 | 142.4 | 142.6 |
| 180°   | 142.4 | 142.4 | 142.4 | 142.4 | 142.4 | 142.4 | 142.4 | 142.4 | 142.4 | 142.4 | 142.4 |



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CATALOG NUMBER: S123RDIP-S775D365U930-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 |
| 2.5°   | 1048.4 | 1050.1 | 1051.7 | 1052.5 | 1052.1 | 1051.8 | 1051.5 | 1051.2 |
| 5°     | 1041.5 | 1043.2 | 1044.9 | 1045.5 | 1045.2 | 1044.8 | 1044.4 | 1044.1 |
| 7.5°   | 1026.9 | 1027.8 | 1028.7 | 1028.9 | 1028.3 | 1027.6 | 1027.0 | 1026.3 |
| 10°    | 1013.7 | 1013.9 | 1014.1 | 1013.7 | 1012.8 | 1011.8 | 1010.9 | 1009.9 |
| 12.5°  | 997.4  | 997.3  | 997.2  | 996.5  | 995.5  | 994.3  | 993.3  | 992.1  |
| 15°    | 968.7  | 967.8  | 966.9  | 965.7  | 964.4  | 963.0  | 961.7  | 960.4  |
| 17.5°  | 934.5  | 932.5  | 930.5  | 928.5  | 926.5  | 924.5  | 922.6  | 920.6  |
| 20°    | 911.1  | 908.6  | 906.1  | 903.8  | 901.5  | 899.2  | 896.9  | 894.6  |
| 22.5°  | 886.0  | 882.9  | 879.8  | 877.2  | 875.1  | 872.9  | 870.8  | 868.7  |
| 25°    | 844.9  | 840.9  | 836.9  | 833.9  | 831.8  | 829.6  | 827.6  | 825.5  |
| 27.5°  | 800.1  | 794.6  | 789.0  | 784.6  | 781.5  | 778.3  | 775.1  | 771.9  |
| 30°    | 768.3  | 761.7  | 755.3  | 750.6  | 747.5  | 744.5  | 741.4  | 738.4  |
| 32.5°  | 736.9  | 729.9  | 722.8  | 717.7  | 714.5  | 711.3  | 708.2  | 705.0  |
| 35°    | 690.6  | 682.4  | 674.3  | 668.5  | 665.0  | 661.6  | 658.2  | 654.8  |
| 37.5°  | 640.7  | 631.4  | 622.2  | 615.5  | 611.2  | 607.0  | 602.8  | 598.6  |
| 40°    | 606.0  | 596.1  | 586.3  | 579.2  | 574.8  | 570.5  | 566.1  | 561.7  |
| 42.5°  | 572.7  | 562.0  | 551.2  | 543.9  | 540.0  | 536.1  | 532.1  | 528.2  |
| 45°    | 523.9  | 513.1  | 502.2  | 494.6  | 490.0  | 485.4  | 480.9  | 476.4  |
| 47.5°  | 473.3  | 461.5  | 449.8  | 441.9  | 437.8  | 433.7  | 429.7  | 425.7  |
| 50°    | 439.2  | 427.4  | 415.6  | 407.6  | 403.2  | 398.8  | 394.5  | 390.1  |
| 52.5°  | 406.2  | 394.0  | 381.7  | 373.7  | 369.7  | 365.8  | 361.9  | 358.0  |
| 55°    | 357.0  | 346.0  | 335.0  | 327.6  | 323.8  | 320.0  | 316.3  | 312.4  |
| 57.5°  | 308.8  | 298.3  | 288.0  | 281.1  | 277.9  | 274.7  | 271.4  | 268.2  |
| 60°    | 278.3  | 268.1  | 257.8  | 251.1  | 247.9  | 244.6  | 241.4  | 238.1  |
| 62.5°  | 248.1  | 238.5  | 228.9  | 222.3  | 218.9  | 215.6  | 212.2  | 208.8  |
| 65°    | 205.0  | 195.8  | 186.5  | 180.8  | 178.7  | 176.6  | 174.6  | 172.4  |
| 67.5°  | 164.0  | 157.1  | 150.1  | 145.5  | 143.3  | 141.0  | 138.8  | 136.6  |
| 70°    | 138.7  | 132.0  | 125.4  | 121.1  | 119.0  | 116.8  | 114.8  | 112.7  |
| 72.5°  | 115.9  | 110.4  | 105.0  | 101.8  | 100.9  | 100.1  | 99.2   | 98.3   |
| 75°    | 86.7   | 84.8   | 82.9   | 81.8   | 81.4   | 81.0   | 80.6   | 80.2   |
| 77.5°  | 65.4   | 64.3   | 63.3   | 62.6   | 62.3   | 61.9   | 61.5   | 61.1   |
| 80°    | 52.7   | 52.1   | 51.5   | 51.0   | 50.6   | 50.3   | 49.9   | 49.5   |
| 82.5°  | 40.4   | 39.8   | 39.2   | 38.9   | 38.8   | 38.7   | 38.6   | 38.6   |
| 85°    | 23.2   | 22.7   | 22.4   | 22.2   | 22.2   | 22.2   | 22.2   | 22.2   |
| 87.5°  | 10.0   | 9.9    | 9.9    | 9.8    | 9.6    | 9.5    | 9.4    | 9.2    |
| 90°    | 7.2    | 7.5    | 7.7    | 8.3    | 8.1    | 8.3    | 8.6    | 8.3    |
| 92.5°  | 24.3   | 19.2   | 17.0   | 15.5   | 15.0   | 14.1   | 14.4   | 13.9   |
| 95°    | 103.7  | 70.3   | 55.0   | 44.7   | 39.2   | 36.6   | 34.6   | 33.4   |
| 97.5°  | 258.5  | 207.1  | 169.9  | 135.5  | 114.2  | 101.3  | 93.4   | 91.0   |
| 100°   | 339.7  | 316.3  | 282.7  | 241.7  | 212.6  | 191.6  | 180.3  | 180.7  |
| 102.5° | 366.6  | 365.9  | 346.3  | 320.3  | 297.7  | 281.0  | 271.7  | 265.0  |
| 105°   | 374.5  | 403.3  | 408.8  | 401.4  | 388.1  | 377.2  | 367.9  | 366.5  |
| 107.5° | 351.8  | 398.6  | 423.9  | 434.1  | 434.4  | 430.6  | 427.5  | 424.9  |
| 110°   | 330.2  | 383.2  | 419.5  | 439.7  | 447.8  | 450.0  | 449.5  | 448.9  |





TEST NUMBER: P332305-930

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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 308.8 | 362.9 | 403.6 | 429.5 | 444.3 | 451.4 | 453.6 | 453.7 |
| 115°   | 280.3 | 330.4 | 372.8 | 404.2 | 425.8 | 438.5 | 444.3 | 445.7 |
| 117.5° | 259.8 | 303.0 | 341.0 | 372.9 | 395.5 | 410.0 | 418.2 | 420.2 |
| 120°   | 248.9 | 287.8 | 322.4 | 351.5 | 374.2 | 390.4 | 397.3 | 399.0 |
| 122.5° | 240.4 | 275.6 | 307.6 | 334.7 | 354.9 | 369.4 | 377.0 | 379.2 |
| 125°   | 229.0 | 260.5 | 288.1 | 311.2 | 329.6 | 342.3 | 349.5 | 351.5 |
| 127.5° | 219.2 | 247.1 | 272.1 | 293.1 | 309.5 | 320.3 | 326.9 | 328.6 |
| 130°   | 212.9 | 238.9 | 262.2 | 281.8 | 297.0 | 307.4 | 313.5 | 315.8 |
| 132.5° | 207.2 | 231.0 | 252.7 | 271.4 | 285.8 | 296.1 | 301.5 | 303.1 |
| 135°   | 199.3 | 219.8 | 238.6 | 254.9 | 269.1 | 277.8 | 282.9 | 284.9 |
| 137.5° | 192.2 | 209.0 | 225.2 | 239.5 | 251.3 | 260.1 | 264.4 | 265.8 |
| 140°   | 188.2 | 202.8 | 216.6 | 229.0 | 240.0 | 248.1 | 252.7 | 252.4 |
| 142.5° | 184.3 | 196.8 | 208.8 | 219.6 | 228.9 | 236.1 | 240.2 | 239.9 |
| 145°   | 179.5 | 189.0 | 198.2 | 206.6 | 213.8 | 219.8 | 222.2 | 222.7 |
| 147.5° | 175.6 | 183.2 | 190.6 | 196.6 | 202.0 | 206.1 | 208.3 | 208.6 |
| 150°   | 172.8 | 179.5 | 185.6 | 191.0 | 195.3 | 198.5 | 200.2 | 200.2 |
| 152.5° | 170.3 | 176.0 | 181.4 | 186.0 | 189.3 | 192.2 | 193.3 | 193.3 |
| 155°   | 166.6 | 171.1 | 175.5 | 178.9 | 181.5 | 183.8 | 184.4 | 184.7 |
| 157.5° | 162.5 | 166.3 | 169.7 | 172.4 | 174.6 | 176.3 | 176.8 | 176.8 |
| 160°   | 160.2 | 163.4 | 166.2 | 168.3 | 170.2 | 172.0 | 172.0 | 171.7 |
| 162.5° | 157.4 | 160.1 | 162.8 | 164.6 | 165.9 | 167.4 | 167.4 | 167.1 |
| 165°   | 153.8 | 155.6 | 157.6 | 159.1 | 160.2 | 161.3 | 161.0 | 161.0 |
| 167.5° | 150.7 | 152.1 | 153.2 | 154.3 | 154.7 | 155.6 | 155.3 | 155.3 |
| 170°   | 148.6 | 149.5 | 150.7 | 151.2 | 151.6 | 152.1 | 151.8 | 151.8 |
| 172.5° | 146.8 | 147.5 | 148.4 | 148.7 | 148.8 | 149.4 | 148.9 | 148.6 |
| 175°   | 144.3 | 144.6 | 145.2 | 145.2 | 145.2 | 145.5 | 145.2 | 145.0 |
| 177.5° | 142.8 | 143.0 | 143.2 | 143.2 | 143.0 | 143.2 | 142.8 | 142.8 |
| 180°   | 142.4 | 142.4 | 142.4 | 142.4 | 142.4 | 142.4 | 142.4 | 142.4 |

(END OF REPORT)