

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: P331962-840

Luminaire Tested: **S123DIP-S775D365U840-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331962-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S775D365U840-4F0-1E-UDD-F1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, FLUSH 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: 4460.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Semi-Direct

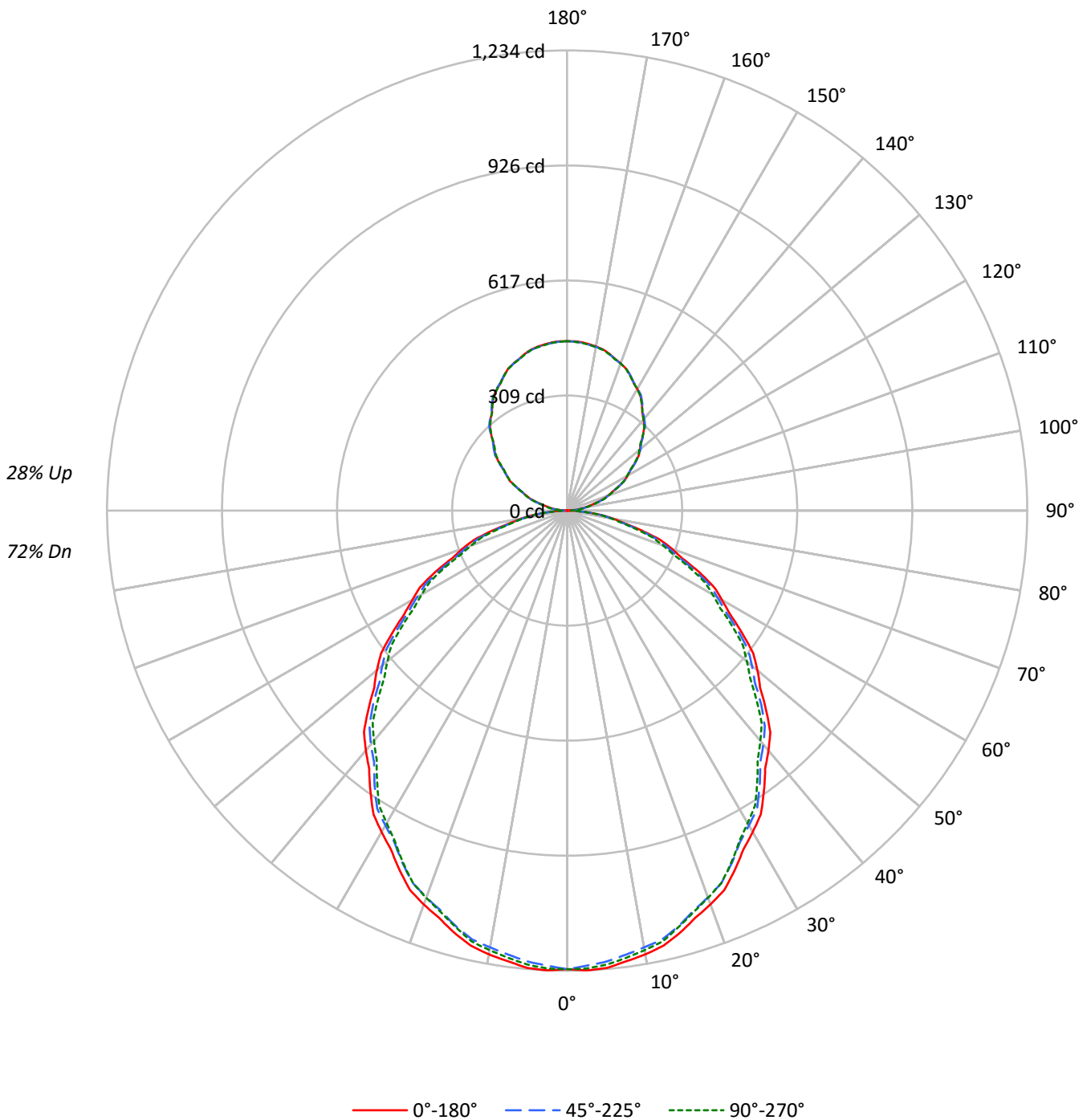
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331962-840

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### Luminous Intensity Polar Plot





TEST NUMBER: P331962-840

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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   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 85 | 85 | 85 | 76 | 76 | 76 | 72 |
| 1   | 103 | 98  | 94  | 90  | 97  | 93  | 89  | 86  | 84 | 81 | 78 | 75 | 73 | 71 | 67 | 66 | 64 | 60 |
| 2   | 93  | 86  | 79  | 74  | 88  | 81  | 76  | 71  | 73 | 69 | 65 | 66 | 62 | 59 | 59 | 56 | 54 | 50 |
| 3   | 85  | 75  | 68  | 61  | 80  | 72  | 65  | 59  | 65 | 59 | 55 | 58 | 54 | 50 | 52 | 49 | 46 | 43 |
| 4   | 78  | 67  | 58  | 52  | 74  | 64  | 56  | 50  | 58 | 51 | 47 | 52 | 47 | 43 | 47 | 43 | 40 | 37 |
| 5   | 72  | 60  | 51  | 45  | 68  | 57  | 49  | 43  | 52 | 45 | 40 | 47 | 41 | 37 | 42 | 38 | 34 | 32 |
| 6   | 66  | 54  | 45  | 39  | 62  | 51  | 43  | 38  | 47 | 40 | 35 | 42 | 37 | 33 | 38 | 34 | 30 | 28 |
| 7   | 61  | 48  | 40  | 34  | 58  | 46  | 39  | 33  | 42 | 36 | 31 | 39 | 33 | 29 | 35 | 30 | 27 | 25 |
| 8   | 57  | 44  | 36  | 31  | 54  | 42  | 35  | 30  | 39 | 32 | 28 | 35 | 30 | 26 | 32 | 28 | 24 | 22 |
| 9   | 53  | 40  | 33  | 27  | 50  | 39  | 32  | 27  | 36 | 29 | 25 | 33 | 27 | 23 | 30 | 25 | 22 | 20 |
| 10  | 50  | 37  | 30  | 25  | 47  | 36  | 29  | 24  | 33 | 27 | 23 | 30 | 25 | 21 | 28 | 23 | 20 | 18 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13237 | 13237 | 13237 |
| 5°  | 13299 | 13116 | 13207 |
| 10° | 13210 | 13002 | 13083 |
| 15° | 13056 | 12856 | 12880 |
| 20° | 12875 | 12645 | 12657 |
| 25° | 12634 | 12396 | 12371 |
| 30° | 12367 | 12117 | 12026 |
| 35° | 12089 | 11825 | 11671 |
| 40° | 11797 | 11500 | 11323 |
| 45° | 11478 | 11204 | 10930 |
| 50° | 11156 | 10836 | 10535 |
| 55° | 10736 | 10457 | 10141 |
| 60° | 10312 | 10015 | 9698  |
| 65° | 9938  | 9536  | 9235  |
| 70° | 9385  | 8985  | 8585  |
| 75° | 8576  | 8268  | 7918  |
| 80° | 7736  | 7407  | 7345  |
| 85° | 6780  | 6533  | 6274  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 115.8  | 2.6       |
| 10°-20°   | 327.1  | 7.3       |
| 20°-30°   | 483.2  | 10.8      |
| 30°-40°   | 564.4  | 12.7      |
| 40°-50°   | 567.4  | 12.7      |
| 50°-60°   | 498.4  | 11.2      |
| 60°-70°   | 371.3  | 8.3       |
| 70°-80°   | 211.6  | 4.7       |
| 80°-90°   | 62.1   | 1.4       |
| 90°-100°  | 29.6   | 0.7       |
| 100°-110° | 88.6   | 2.0       |
| 110°-120° | 150.7  | 3.4       |
| 120°-130° | 198.2  | 4.4       |
| 130°-140° | 222.7  | 5.0       |
| 140°-150° | 219.0  | 4.9       |
| 150°-160° | 184.3  | 4.1       |
| 160°-170° | 122.7  | 2.8       |
| 170°-180° | 43.0   | 1.0       |
| 0°-30°    | 926.1  | 20.8      |
| 0°-40°    | 1490.5 | 33.4      |
| 0°-60°    | 2556.3 | 57.3      |
| 0°-90°    | 3201.3 | 71.8      |
| 90°-120°  | 268.8  | 6.0       |
| 90°-150°  | 908.7  | 20.4      |
| 90°-180°  | 1259.0 | 28.2      |
| 0°-180°   | 4460.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1230 | 1230  | 1230 | 1230  | 1230 |      |
| 5°   | 1231 | 1225  | 1214 | 1224  | 1222 | 117  |
| 15°  | 1172 | 1167  | 1154 | 1161  | 1156 | 330  |
| 25°  | 1064 | 1057  | 1044 | 1044  | 1042 | 490  |
| 35°  | 920  | 913   | 900  | 894   | 888  | 575  |
| 45°  | 754  | 749   | 736  | 724   | 718  | 582  |
| 55°  | 572  | 570   | 557  | 546   | 540  | 512  |
| 65°  | 390  | 385   | 374  | 366   | 363  | 385  |
| 75°  | 206  | 202   | 199  | 194   | 190  | 221  |
| 85°  | 55   | 53    | 53   | 51    | 51   | 60   |
| 90°  | 0    | 4     | 9    | 10    | 11   | 4    |
| 95°  | 21   | 24    | 26   | 28    | 28   | 24   |
| 105° | 80   | 81    | 84   | 84    | 85   | 86   |
| 115° | 152  | 153   | 152  | 152   | 152  | 150  |
| 125° | 222  | 223   | 222  | 221   | 219  | 198  |
| 135° | 288  | 290   | 290  | 288   | 288  | 222  |
| 145° | 349  | 350   | 351  | 351   | 349  | 218  |
| 155° | 400  | 400   | 400  | 402   | 399  | 184  |
| 165° | 436  | 435   | 435  | 437   | 434  | 123  |
| 175° | 453  | 452   | 452  | 454   | 451  | 43   |
| 180° | 454  | 454   | 454  | 454   | 454  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 |
| 2.5°   | 1234.0 | 1233.2 | 1232.5 | 1231.7 | 1231.0 | 1229.6 | 1227.5 | 1225.5 | 1223.4 | 1221.3 | 1223.1 |
| 5°     | 1230.8 | 1229.6 | 1228.5 | 1227.3 | 1226.1 | 1224.3 | 1221.6 | 1219.1 | 1216.5 | 1213.9 | 1216.3 |
| 7.5°   | 1218.8 | 1217.6 | 1216.4 | 1215.3 | 1214.1 | 1212.1 | 1209.4 | 1206.8 | 1204.1 | 1201.4 | 1203.6 |
| 10°    | 1208.6 | 1207.4 | 1206.3 | 1205.1 | 1204.0 | 1201.8 | 1198.7 | 1195.7 | 1192.7 | 1189.6 | 1191.7 |
| 12.5°  | 1195.1 | 1194.1 | 1193.2 | 1192.1 | 1191.1 | 1189.2 | 1186.4 | 1183.5 | 1180.6 | 1177.7 | 1179.3 |
| 15°    | 1171.6 | 1170.6 | 1169.7 | 1168.8 | 1167.8 | 1165.9 | 1162.8 | 1159.7 | 1156.7 | 1153.7 | 1155.5 |
| 17.5°  | 1144.3 | 1143.1 | 1141.9 | 1140.6 | 1139.4 | 1137.3 | 1134.3 | 1131.1 | 1128.1 | 1125.1 | 1126.4 |
| 20°    | 1124.0 | 1122.6 | 1121.3 | 1119.8 | 1118.4 | 1116.1 | 1113.1 | 1110.0 | 1107.0 | 1103.9 | 1104.9 |
| 22.5°  | 1101.2 | 1099.7 | 1098.3 | 1096.9 | 1095.5 | 1093.3 | 1090.3 | 1087.2 | 1084.2 | 1081.1 | 1081.9 |
| 25°    | 1063.8 | 1062.4 | 1061.0 | 1059.6 | 1058.1 | 1055.9 | 1052.8 | 1049.8 | 1046.7 | 1043.7 | 1043.9 |
| 27.5°  | 1023.8 | 1022.4 | 1021.1 | 1019.7 | 1018.3 | 1016.0 | 1012.7 | 1009.5 | 1006.1 | 1002.8 | 1003.0 |
| 30°    | 995.0  | 993.8  | 992.7  | 991.5  | 990.3  | 988.1  | 984.8  | 981.5  | 978.3  | 974.9  | 974.9  |
| 32.5°  | 966.2  | 964.7  | 963.1  | 961.6  | 960.1  | 958.1  | 955.4  | 952.9  | 950.4  | 947.9  | 946.5  |
| 35°    | 920.0  | 918.6  | 917.2  | 915.7  | 914.3  | 912.1  | 909.0  | 905.9  | 902.9  | 899.9  | 898.5  |
| 37.5°  | 872.5  | 870.8  | 869.0  | 867.2  | 865.5  | 863.0  | 859.9  | 856.8  | 853.6  | 850.6  | 848.9  |
| 40°    | 839.6  | 838.2  | 836.8  | 835.4  | 833.9  | 831.6  | 828.3  | 825.1  | 821.7  | 818.4  | 816.6  |
| 42.5°  | 806.6  | 805.0  | 803.3  | 801.8  | 800.2  | 797.8  | 794.5  | 791.1  | 787.9  | 784.6  | 782.7  |
| 45°    | 754.0  | 753.0  | 752.0  | 751.1  | 750.1  | 748.2  | 745.1  | 742.0  | 739.0  | 736.0  | 733.2  |
| 47.5°  | 701.7  | 700.3  | 698.9  | 697.6  | 696.2  | 694.1  | 691.3  | 688.4  | 685.5  | 682.7  | 679.8  |
| 50°    | 666.2  | 665.0  | 663.8  | 662.7  | 661.5  | 659.3  | 656.3  | 653.3  | 650.2  | 647.1  | 644.6  |
| 52.5°  | 628.9  | 628.1  | 627.3  | 626.5  | 625.7  | 623.7  | 620.5  | 617.2  | 614.0  | 610.8  | 608.5  |
| 55°    | 572.1  | 571.8  | 571.6  | 571.4  | 571.1  | 569.5  | 566.4  | 563.4  | 560.3  | 557.2  | 554.7  |
| 57.5°  | 518.0  | 517.2  | 516.3  | 515.5  | 514.7  | 513.1  | 510.7  | 508.2  | 505.7  | 503.3  | 501.0  |
| 60°    | 479.0  | 478.8  | 478.6  | 478.3  | 478.1  | 476.6  | 473.7  | 470.9  | 468.1  | 465.2  | 463.1  |
| 62.5°  | 444.3  | 443.7  | 443.1  | 442.5  | 441.9  | 440.2  | 437.4  | 434.5  | 431.7  | 428.9  | 426.8  |
| 65°    | 390.2  | 389.0  | 387.8  | 386.7  | 385.5  | 383.7  | 381.3  | 379.0  | 376.7  | 374.4  | 372.4  |
| 67.5°  | 332.9  | 331.8  | 330.8  | 329.7  | 328.7  | 327.3  | 325.6  | 323.8  | 321.9  | 320.2  | 318.5  |
| 70°    | 298.2  | 296.8  | 295.4  | 294.0  | 292.6  | 291.1  | 289.7  | 288.3  | 286.9  | 285.5  | 283.9  |
| 72.5°  | 261.9  | 260.7  | 259.7  | 258.7  | 257.7  | 256.4  | 254.8  | 253.2  | 251.6  | 249.9  | 248.5  |
| 75°    | 206.2  | 205.2  | 204.3  | 203.4  | 202.5  | 201.6  | 200.9  | 200.2  | 199.4  | 198.8  | 197.6  |
| 77.5°  | 156.9  | 156.4  | 155.9  | 155.4  | 154.8  | 154.2  | 153.3  | 152.5  | 151.7  | 150.8  | 150.0  |
| 80°    | 124.8  | 124.1  | 123.4  | 122.7  | 122.0  | 121.4  | 120.9  | 120.5  | 120.0  | 119.5  | 119.3  |
| 82.5°  | 93.5   | 93.3   | 93.2   | 93.0   | 92.9   | 92.8   | 92.7   | 92.6   | 92.5   | 92.4   | 92.0   |
| 85°    | 54.9   | 54.5   | 54.0   | 53.6   | 53.1   | 52.9   | 52.9   | 52.9   | 52.9   | 52.9   | 52.4   |
| 87.5°  | 22.0   | 21.6   | 21.2   | 20.8   | 20.4   | 20.3   | 20.3   | 20.3   | 20.3   | 20.3   | 20.2   |
| 90°    | 0.4    | 1.1    | 1.9    | 2.7    | 3.5    | 4.4    | 5.5    | 6.5    | 7.6    | 8.6    | 8.9    |
| 92.5°  | 8.7    | 9.2    | 9.7    | 10.3   | 10.8   | 11.3   | 11.9   | 12.5   | 13.1   | 13.7   | 13.9   |
| 95°    | 21.1   | 21.6   | 22.1   | 22.7   | 23.2   | 23.8   | 24.5   | 25.1   | 25.8   | 26.5   | 26.8   |
| 97.5°  | 37.4   | 37.8   | 38.3   | 38.7   | 39.1   | 39.5   | 40.0   | 40.4   | 40.9   | 41.3   | 41.7   |
| 100°   | 48.6   | 49.0   | 49.5   | 50.0   | 50.4   | 50.9   | 51.3   | 51.7   | 52.1   | 52.4   | 52.7   |
| 102.5° | 61.4   | 61.7   | 61.9   | 62.2   | 62.5   | 62.9   | 63.4   | 64.0   | 64.5   | 65.0   | 65.2   |
| 105°   | 80.3   | 80.5   | 80.6   | 80.8   | 80.9   | 81.4   | 82.1   | 82.8   | 83.5   | 84.2   | 84.2   |
| 107.5° | 102.3  | 102.4  | 102.5  | 102.6  | 102.7  | 102.8  | 103.1  | 103.4  | 103.7  | 104.0  | 104.2  |
| 110°   | 116.0  | 116.1  | 116.3  | 116.4  | 116.6  | 116.7  | 116.9  | 117.1  | 117.2  | 117.4  | 117.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 130.3 | 130.4 | 130.5 | 130.6 | 130.7 | 130.7 | 130.8 | 130.8 | 130.8 | 130.9 | 131.2 |
| 115°   | 151.7 | 151.9 | 152.2 | 152.4 | 152.6 | 152.7 | 152.5 | 152.4 | 152.2 | 152.0 | 152.1 |
| 117.5° | 173.2 | 173.4 | 173.6 | 173.7 | 173.9 | 173.8 | 173.6 | 173.4 | 173.2 | 173.0 | 173.0 |
| 120°   | 186.6 | 187.1 | 187.6 | 188.0 | 188.5 | 188.5 | 188.2 | 187.8 | 187.4 | 187.0 | 186.9 |
| 122.5° | 200.7 | 201.0 | 201.4 | 201.7 | 202.1 | 202.1 | 201.9 | 201.7 | 201.5 | 201.3 | 201.1 |
| 125°   | 222.0 | 222.2 | 222.5 | 222.7 | 223.0 | 223.0 | 222.8 | 222.7 | 222.5 | 222.4 | 222.0 |
| 127.5° | 241.7 | 242.2 | 242.7 | 243.2 | 243.7 | 243.9 | 243.7 | 243.5 | 243.4 | 243.2 | 242.8 |
| 130°   | 254.8 | 255.4 | 256.1 | 256.7 | 257.3 | 257.5 | 257.3 | 257.1 | 256.8 | 256.6 | 256.3 |
| 132.5° | 267.9 | 268.6 | 269.2 | 269.8 | 270.4 | 270.7 | 270.5 | 270.3 | 270.1 | 270.0 | 269.6 |
| 135°   | 288.0 | 288.5 | 288.9 | 289.4 | 289.9 | 290.1 | 290.0 | 289.9 | 289.8 | 289.8 | 289.4 |
| 137.5° | 306.6 | 307.0 | 307.3 | 307.7 | 308.1 | 308.4 | 308.6 | 308.8 | 309.0 | 309.2 | 308.9 |
| 140°   | 319.4 | 319.8 | 320.2 | 320.6 | 321.0 | 321.2 | 321.3 | 321.3 | 321.4 | 321.5 | 321.4 |
| 142.5° | 331.1 | 331.5 | 331.9 | 332.3 | 332.6 | 333.0 | 333.2 | 333.3 | 333.4 | 333.6 | 333.5 |
| 145°   | 349.4 | 349.5 | 349.7 | 349.8 | 350.0 | 350.2 | 350.4 | 350.7 | 350.9 | 351.1 | 351.1 |
| 147.5° | 365.4 | 365.7 | 366.0 | 366.3 | 366.5 | 366.8 | 367.0 | 367.2 | 367.4 | 367.7 | 367.7 |
| 150°   | 376.5 | 376.7 | 376.8 | 377.0 | 377.2 | 377.3 | 377.5 | 377.6 | 377.8 | 377.9 | 377.9 |
| 152.5° | 385.7 | 385.9 | 386.1 | 386.3 | 386.6 | 386.7 | 386.8 | 386.9 | 387.0 | 387.1 | 387.2 |
| 155°   | 400.1 | 400.1 | 400.1 | 400.1 | 400.1 | 400.1 | 400.2 | 400.2 | 400.3 | 400.4 | 400.7 |
| 157.5° | 412.3 | 412.2 | 412.1 | 412.0 | 411.9 | 411.9 | 412.0 | 412.0 | 412.1 | 412.2 | 412.5 |
| 160°   | 420.0 | 419.9 | 419.7 | 419.6 | 419.4 | 419.3 | 419.3 | 419.3 | 419.3 | 419.3 | 419.7 |
| 162.5° | 426.9 | 426.7 | 426.5 | 426.3 | 426.0 | 426.0 | 426.0 | 426.1 | 426.2 | 426.2 | 426.6 |
| 165°   | 435.8 | 435.6 | 435.3 | 435.0 | 434.7 | 434.6 | 434.6 | 434.6 | 434.6 | 434.6 | 435.2 |
| 167.5° | 442.8 | 442.5 | 442.2 | 441.8 | 441.5 | 441.4 | 441.5 | 441.5 | 441.6 | 441.7 | 442.1 |
| 170°   | 446.8 | 446.5 | 446.2 | 445.9 | 445.6 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 446.0 |
| 172.5° | 450.0 | 449.6 | 449.3 | 449.0 | 448.7 | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 | 449.0 |
| 175°   | 453.2 | 452.9 | 452.6 | 452.3 | 452.0 | 451.8 | 451.8 | 451.8 | 451.8 | 451.8 | 452.3 |
| 177.5° | 454.5 | 454.3 | 454.0 | 453.8 | 453.5 | 453.4 | 453.4 | 453.4 | 453.4 | 453.4 | 453.8 |
| 180°   | 454.3 | 454.3 | 454.3 | 454.3 | 454.3 | 454.3 | 454.3 | 454.3 | 454.3 | 454.3 | 454.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 |
| 2.5°   | 1225.1 | 1227.0 | 1228.8 | 1229.7 | 1229.5 | 1229.3 | 1229.1 | 1228.9 |
| 5°     | 1218.6 | 1220.9 | 1223.4 | 1224.3 | 1223.8 | 1223.4 | 1222.8 | 1222.3 |
| 7.5°   | 1205.7 | 1207.8 | 1209.9 | 1210.8 | 1210.5 | 1210.2 | 1209.9 | 1209.7 |
| 10°    | 1193.9 | 1195.9 | 1198.0 | 1198.9 | 1198.4 | 1197.9 | 1197.5 | 1197.0 |
| 12.5°  | 1180.8 | 1182.3 | 1184.0 | 1184.6 | 1184.3 | 1184.0 | 1183.8 | 1183.5 |
| 15°    | 1157.4 | 1159.2 | 1161.1 | 1161.3 | 1159.9 | 1158.5 | 1157.2 | 1155.8 |
| 17.5°  | 1127.7 | 1129.0 | 1130.3 | 1130.7 | 1130.2 | 1129.7 | 1129.2 | 1128.7 |
| 20°    | 1105.8 | 1106.7 | 1107.7 | 1107.8 | 1107.1 | 1106.4 | 1105.7 | 1105.0 |
| 22.5°  | 1082.6 | 1083.4 | 1084.1 | 1084.0 | 1083.2 | 1082.3 | 1081.4 | 1080.5 |
| 25°    | 1044.1 | 1044.4 | 1044.6 | 1044.4 | 1043.7 | 1043.0 | 1042.3 | 1041.6 |
| 27.5°  | 1003.2 | 1003.4 | 1003.6 | 1003.2 | 1002.4 | 1001.5 | 1000.6 | 999.7  |
| 30°    | 974.9  | 974.9  | 974.9  | 974.1  | 972.5  | 970.8  | 969.2  | 967.6  |
| 32.5°  | 945.2  | 943.9  | 942.6  | 941.5  | 940.6  | 939.7  | 938.8  | 938.0  |
| 35°    | 897.1  | 895.6  | 894.2  | 892.9  | 891.7  | 890.6  | 889.4  | 888.2  |
| 37.5°  | 847.2  | 845.5  | 843.8  | 842.6  | 841.8  | 841.1  | 840.3  | 839.6  |
| 40°    | 814.7  | 812.8  | 810.9  | 809.5  | 808.6  | 807.6  | 806.7  | 805.8  |
| 42.5°  | 780.8  | 778.9  | 777.1  | 775.7  | 774.8  | 773.8  | 772.8  | 771.9  |
| 45°    | 730.3  | 727.5  | 724.7  | 722.7  | 721.5  | 720.3  | 719.1  | 718.0  |
| 47.5°  | 677.1  | 674.4  | 671.6  | 669.6  | 668.6  | 667.6  | 666.6  | 665.5  |
| 50°    | 642.0  | 639.3  | 636.8  | 634.8  | 633.4  | 632.0  | 630.6  | 629.1  |
| 52.5°  | 606.3  | 604.1  | 601.9  | 600.2  | 598.7  | 597.3  | 595.9  | 594.5  |
| 55°    | 552.1  | 549.5  | 546.9  | 545.0  | 543.8  | 542.7  | 541.5  | 540.4  |
| 57.5°  | 498.7  | 496.4  | 494.1  | 492.3  | 490.9  | 489.6  | 488.2  | 486.9  |
| 60°    | 461.0  | 458.9  | 456.8  | 455.1  | 453.9  | 452.8  | 451.6  | 450.5  |
| 62.5°  | 424.6  | 422.5  | 420.4  | 419.0  | 418.2  | 417.4  | 416.6  | 415.8  |
| 65°    | 370.5  | 368.7  | 366.8  | 365.5  | 364.8  | 364.1  | 363.3  | 362.6  |
| 67.5°  | 316.9  | 315.3  | 313.6  | 312.3  | 311.3  | 310.3  | 309.3  | 308.3  |
| 70°    | 282.3  | 280.5  | 278.9  | 277.5  | 276.3  | 275.2  | 274.0  | 272.8  |
| 72.5°  | 247.0  | 245.6  | 244.2  | 243.1  | 242.5  | 241.9  | 241.3  | 240.7  |
| 75°    | 196.4  | 195.3  | 194.1  | 193.2  | 192.5  | 191.8  | 191.1  | 190.4  |
| 77.5°  | 149.2  | 148.3  | 147.5  | 147.2  | 147.2  | 147.2  | 147.2  | 147.2  |
| 80°    | 119.1  | 118.8  | 118.6  | 118.5  | 118.5  | 118.5  | 118.5  | 118.5  |
| 82.5°  | 91.6   | 91.2   | 90.7   | 90.4   | 90.3   | 90.1   | 89.9   | 89.7   |
| 85°    | 51.9   | 51.5   | 51.0   | 50.8   | 50.8   | 50.8   | 50.8   | 50.8   |
| 87.5°  | 20.1   | 20.0   | 19.8   | 19.8   | 19.8   | 19.8   | 19.9   | 19.9   |
| 90°    | 9.2    | 9.5    | 9.8    | 10.1   | 10.2   | 10.4   | 10.5   | 10.7   |
| 92.5°  | 14.2   | 14.4   | 14.7   | 14.8   | 14.7   | 14.6   | 14.5   | 14.4   |
| 95°    | 27.1   | 27.4   | 27.7   | 27.9   | 27.9   | 27.9   | 27.9   | 27.9   |
| 97.5°  | 42.0   | 42.4   | 42.8   | 42.9   | 42.9   | 42.9   | 42.8   | 42.8   |
| 100°   | 52.9   | 53.2   | 53.4   | 53.6   | 53.7   | 53.9   | 54.1   | 54.2   |
| 102.5° | 65.5   | 65.7   | 65.9   | 66.0   | 66.0   | 66.0   | 65.9   | 65.9   |
| 105°   | 84.2   | 84.2   | 84.2   | 84.3   | 84.4   | 84.6   | 84.8   | 84.9   |
| 107.5° | 104.5  | 104.7  | 105.0  | 105.1  | 105.0  | 104.9  | 104.8  | 104.7  |
| 110°   | 118.1  | 118.4  | 118.7  | 118.8  | 118.6  | 118.5  | 118.3  | 118.2  |





TEST NUMBER: P331962-840

CATALOG NUMBER: S123DIP-S775D365U840-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 131.6 | 132.0 | 132.4 | 132.5 | 132.5 | 132.5 | 132.4 | 132.4 |
| 115°   | 152.2 | 152.3 | 152.4 | 152.4 | 152.3 | 152.2 | 152.1 | 152.0 |
| 117.5° | 173.0 | 173.0 | 173.0 | 172.8 | 172.6 | 172.4 | 172.2 | 172.0 |
| 120°   | 186.8 | 186.7 | 186.7 | 186.5 | 186.4 | 186.2 | 186.1 | 185.9 |
| 122.5° | 200.9 | 200.7 | 200.5 | 200.3 | 200.1 | 199.8 | 199.5 | 199.3 |
| 125°   | 221.7 | 221.4 | 221.1 | 220.8 | 220.5 | 220.2 | 219.7 | 219.4 |
| 127.5° | 242.3 | 241.9 | 241.4 | 241.0 | 240.7 | 240.2 | 239.9 | 239.5 |
| 130°   | 256.0 | 255.6 | 255.3 | 254.9 | 254.4 | 253.8 | 253.3 | 252.7 |
| 132.5° | 269.2 | 268.8 | 268.5 | 268.1 | 267.6 | 267.2 | 266.8 | 266.4 |
| 135°   | 289.1 | 288.8 | 288.5 | 288.3 | 288.1 | 287.9 | 287.8 | 287.6 |
| 137.5° | 308.6 | 308.3 | 307.9 | 307.6 | 307.3 | 307.0 | 306.7 | 306.4 |
| 140°   | 321.3 | 321.3 | 321.2 | 320.9 | 320.3 | 319.8 | 319.2 | 318.7 |
| 142.5° | 333.4 | 333.3 | 333.3 | 333.0 | 332.5 | 332.1 | 331.6 | 331.2 |
| 145°   | 351.0 | 350.9 | 350.8 | 350.6 | 350.3 | 350.0 | 349.7 | 349.4 |
| 147.5° | 367.7 | 367.7 | 367.7 | 367.4 | 367.0 | 366.5 | 366.0 | 365.5 |
| 150°   | 377.9 | 377.9 | 377.9 | 377.7 | 377.2 | 376.8 | 376.3 | 375.8 |
| 152.5° | 387.3 | 387.5 | 387.6 | 387.4 | 387.0 | 386.6 | 386.2 | 385.8 |
| 155°   | 401.0 | 401.3 | 401.7 | 401.5 | 401.0 | 400.4 | 399.9 | 399.3 |
| 157.5° | 412.8 | 413.2 | 413.5 | 413.4 | 413.0 | 412.6 | 412.1 | 411.7 |
| 160°   | 420.1 | 420.5 | 420.9 | 420.9 | 420.6 | 420.3 | 420.0 | 419.7 |
| 162.5° | 427.0 | 427.4 | 427.8 | 427.7 | 427.2 | 426.7 | 426.2 | 425.7 |
| 165°   | 435.7 | 436.1 | 436.6 | 436.6 | 436.0 | 435.5 | 434.8 | 434.3 |
| 167.5° | 442.6 | 443.1 | 443.6 | 443.6 | 443.1 | 442.6 | 442.1 | 441.7 |
| 170°   | 446.5 | 447.1 | 447.6 | 447.6 | 447.1 | 446.5 | 446.0 | 445.4 |
| 172.5° | 449.5 | 450.0 | 450.5 | 450.5 | 449.9 | 449.4 | 448.8 | 448.3 |
| 175°   | 452.7 | 453.2 | 453.7 | 453.6 | 453.1 | 452.5 | 452.0 | 451.4 |
| 177.5° | 454.2 | 454.5 | 454.9 | 454.9 | 454.5 | 454.0 | 453.6 | 453.1 |
| 180°   | 454.3 | 454.3 | 454.3 | 454.3 | 454.3 | 454.3 | 454.3 | 454.3 |

(END OF REPORT)