

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: P332675-840

Luminaire Tested: **S124DIP-S1195D365U840-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332675-840  
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: S124DIP-S1195D365U840-4F0-1E-UDD-D4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6231.1 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

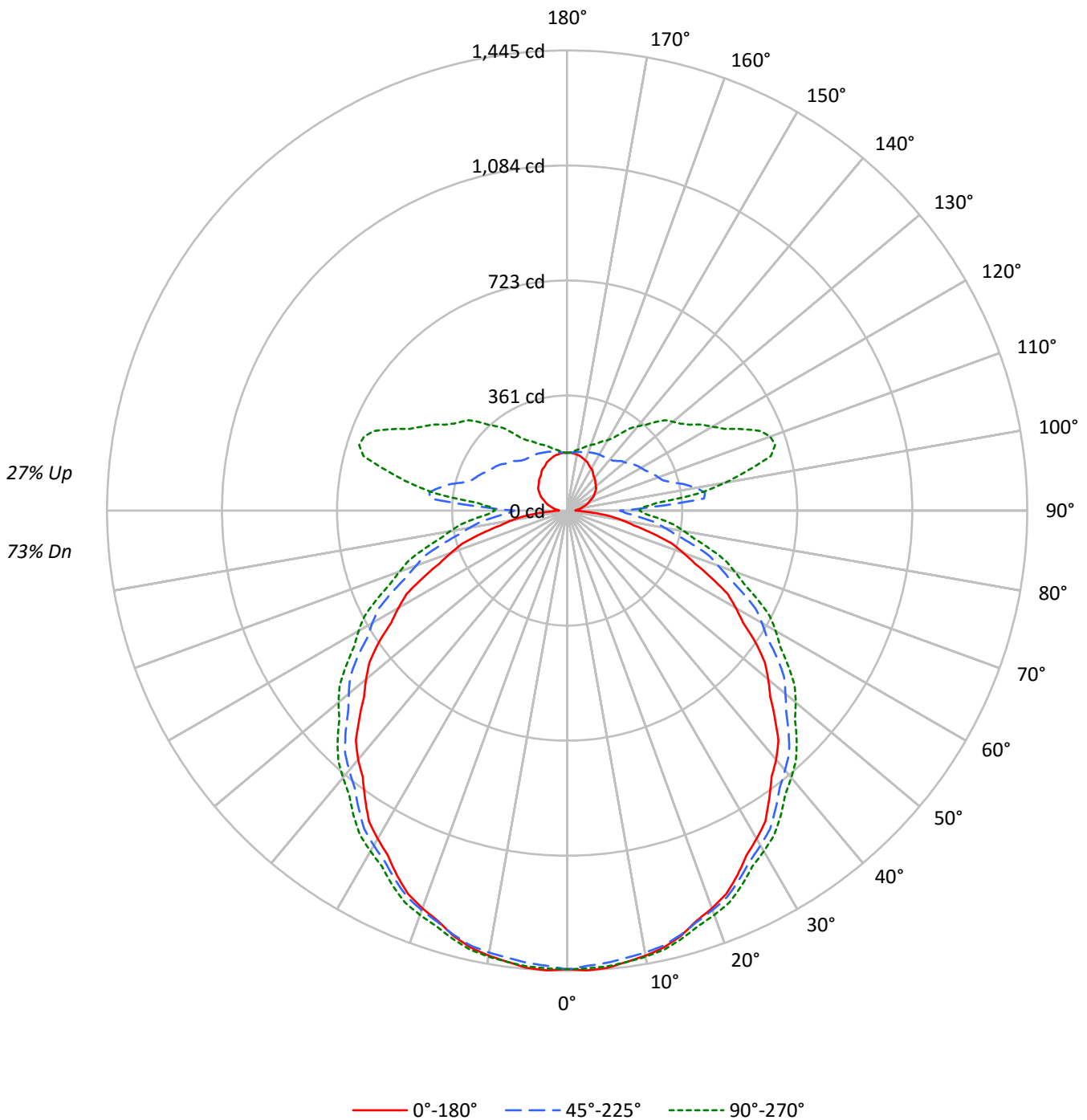
Input Watts (W): 49.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332675-840

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### Luminous Intensity Polar Plot





TEST NUMBER: P332675-840

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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   | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 86 | 86 | 86 | 77 | 77 | 77 | 73 |
| 1   | 101 | 96  | 92  | 88  | 96  | 91  | 87  | 84  | 82 | 79 | 76 | 74 | 71 | 69 | 66 | 64 | 62 | 58 |
| 2   | 92  | 83  | 76  | 70  | 87  | 79  | 73  | 67  | 71 | 66 | 62 | 64 | 60 | 56 | 57 | 54 | 51 | 48 |
| 3   | 83  | 73  | 65  | 58  | 79  | 69  | 62  | 56  | 62 | 56 | 51 | 56 | 51 | 47 | 50 | 46 | 43 | 40 |
| 4   | 76  | 64  | 55  | 49  | 72  | 61  | 53  | 47  | 55 | 49 | 43 | 50 | 44 | 40 | 44 | 40 | 37 | 34 |
| 5   | 70  | 57  | 48  | 42  | 66  | 54  | 46  | 40  | 49 | 42 | 37 | 44 | 39 | 34 | 40 | 35 | 32 | 29 |
| 6   | 64  | 51  | 42  | 36  | 61  | 49  | 41  | 35  | 44 | 37 | 32 | 40 | 34 | 30 | 36 | 31 | 28 | 25 |
| 7   | 59  | 46  | 38  | 32  | 56  | 44  | 36  | 31  | 40 | 33 | 28 | 36 | 31 | 26 | 33 | 28 | 24 | 22 |
| 8   | 55  | 42  | 34  | 28  | 52  | 40  | 32  | 27  | 37 | 30 | 25 | 33 | 28 | 24 | 30 | 25 | 22 | 20 |
| 9   | 51  | 38  | 30  | 25  | 49  | 37  | 29  | 24  | 34 | 27 | 23 | 31 | 25 | 21 | 28 | 23 | 20 | 18 |
| 10  | 48  | 35  | 28  | 22  | 46  | 34  | 27  | 22  | 31 | 25 | 20 | 28 | 23 | 19 | 26 | 21 | 18 | 16 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11626 | 11626 | 11626 |
| 5°  | 11661 | 11362 | 11394 |
| 10° | 11590 | 11176 | 11167 |
| 15° | 11486 | 10961 | 10900 |
| 20° | 11330 | 10723 | 10641 |
| 25° | 11153 | 10457 | 10356 |
| 30° | 10961 | 10193 | 10063 |
| 35° | 10745 | 9921  | 9805  |
| 40° | 10573 | 9663  | 9538  |
| 45° | 10316 | 9426  | 9309  |
| 50° | 10098 | 9151  | 9066  |
| 55° | 9875  | 8894  | 8781  |
| 60° | 9525  | 8563  | 8521  |
| 65° | 9141  | 8210  | 8201  |
| 70° | 8676  | 7806  | 7830  |
| 75° | 8028  | 7363  | 7494  |
| 80° | 7309  | 6935  | 7163  |
| 85° | 6389  | 6559  | 6968  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 136.4  | 2.2       |
| 10°-20°   | 390.7  | 6.3       |
| 20°-30°   | 590.8  | 9.5       |
| 30°-40°   | 714.8  | 11.5      |
| 40°-50°   | 755.7  | 12.1      |
| 50°-60°   | 711.2  | 11.4      |
| 60°-70°   | 590.1  | 9.5       |
| 70°-80°   | 414.5  | 6.7       |
| 80°-90°   | 235.3  | 3.8       |
| 90°-100°  | 270.3  | 4.3       |
| 100°-110° | 376.1  | 6.0       |
| 110°-120° | 313.7  | 5.0       |
| 120°-130° | 244.8  | 3.9       |
| 130°-140° | 188.4  | 3.0       |
| 140°-150° | 134.5  | 2.2       |
| 150°-160° | 92.1   | 1.5       |
| 160°-170° | 54.2   | 0.9       |
| 170°-180° | 17.6   | 0.3       |
| 0°-30°    | 1117.8 | 17.9      |
| 0°-40°    | 1832.6 | 29.4      |
| 0°-60°    | 3299.5 | 53.0      |
| 0°-90°    | 4539.3 | 72.8      |
| 90°-120°  | 960.2  | 15.4      |
| 90°-150°  | 1527.8 | 24.5      |
| 90°-180°  | 1692.0 | 27.2      |
| 0°-180°   | 6231.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1440 | 1440  | 1440 | 1440  | 1440 |      |
| 5°   | 1442 | 1436  | 1426 | 1438  | 1437 | 137  |
| 15°  | 1382 | 1383  | 1379 | 1392  | 1392 | 389  |
| 25°  | 1264 | 1274  | 1279 | 1296  | 1298 | 582  |
| 35°  | 1106 | 1125  | 1142 | 1163  | 1169 | 692  |
| 45°  | 922  | 953   | 984  | 1010  | 1019 | 713  |
| 55°  | 722  | 757   | 805  | 836   | 847  | 643  |
| 65°  | 500  | 552   | 606  | 645   | 660  | 495  |
| 75°  | 277  | 338   | 405  | 448   | 464  | 295  |
| 85°  | 85   | 153   | 226  | 272   | 290  | 91   |
| 90°  | 26   | 93    | 166  | 212   | 227  | 18   |
| 95°  | 33   | 112   | 431  | 326   | 285  | 30   |
| 105° | 56   | 109   | 340  | 649   | 662  | 61   |
| 115° | 83   | 118   | 285  | 511   | 605  | 83   |
| 125° | 109  | 129   | 253  | 416   | 470  | 97   |
| 135° | 125  | 149   | 220  | 342   | 394  | 97   |
| 145° | 142  | 161   | 205  | 265   | 297  | 89   |
| 155° | 160  | 172   | 199  | 226   | 235  | 74   |
| 165° | 174  | 179   | 191  | 202   | 205  | 49   |
| 175° | 181  | 182   | 183  | 186   | 185  | 17   |
| 180° | 182  | 182   | 182  | 182   | 182  |      |



TEST NUMBER: P332675-840

CATALOG NUMBER: S124DIP-S1195D365U840-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 |
| 2.5°   | 1445.2 | 1444.3 | 1443.5 | 1442.6 | 1441.8 | 1440.2 | 1437.8 | 1435.6 | 1433.3 | 1431.0 | 1433.0 |
| 5°     | 1441.6 | 1440.6 | 1439.5 | 1438.5 | 1437.3 | 1435.5 | 1433.0 | 1430.5 | 1428.1 | 1425.5 | 1428.4 |
| 7.5°   | 1429.4 | 1428.8 | 1428.1 | 1427.4 | 1426.8 | 1425.4 | 1423.4 | 1421.3 | 1419.2 | 1417.1 | 1420.4 |
| 10°    | 1419.1 | 1418.7 | 1418.4 | 1418.0 | 1417.6 | 1416.5 | 1414.7 | 1413.0 | 1411.2 | 1409.4 | 1412.6 |
| 12.5°  | 1404.8 | 1404.8 | 1404.7 | 1404.6 | 1404.6 | 1403.9 | 1402.7 | 1401.5 | 1400.3 | 1399.1 | 1402.0 |
| 15°    | 1382.0 | 1382.3 | 1382.7 | 1383.0 | 1383.4 | 1383.0 | 1382.0 | 1380.9 | 1379.8 | 1378.8 | 1382.0 |
| 17.5°  | 1350.7 | 1351.8 | 1352.8 | 1353.9 | 1354.9 | 1355.4 | 1355.2 | 1354.9 | 1354.7 | 1354.5 | 1357.9 |
| 20°    | 1328.8 | 1329.8 | 1330.9 | 1332.0 | 1333.0 | 1333.7 | 1334.1 | 1334.5 | 1334.8 | 1335.2 | 1338.8 |
| 22.5°  | 1304.2 | 1305.6 | 1307.0 | 1308.3 | 1309.7 | 1310.7 | 1311.3 | 1312.0 | 1312.6 | 1313.2 | 1316.9 |
| 25°    | 1264.3 | 1266.4 | 1268.6 | 1270.7 | 1272.8 | 1274.4 | 1275.6 | 1276.6 | 1277.7 | 1278.8 | 1282.7 |
| 27.5°  | 1219.7 | 1222.9 | 1226.1 | 1229.2 | 1232.3 | 1234.8 | 1236.4 | 1238.1 | 1239.7 | 1241.3 | 1245.0 |
| 30°    | 1190.0 | 1193.0 | 1195.8 | 1198.7 | 1201.5 | 1204.3 | 1206.7 | 1209.2 | 1211.7 | 1214.3 | 1218.2 |
| 32.5°  | 1157.8 | 1161.2 | 1164.7 | 1168.1 | 1171.5 | 1174.7 | 1177.5 | 1180.3 | 1183.1 | 1185.9 | 1190.4 |
| 35°    | 1106.2 | 1110.5 | 1114.8 | 1119.1 | 1123.4 | 1127.3 | 1130.9 | 1134.5 | 1138.1 | 1141.7 | 1146.7 |
| 37.5°  | 1054.3 | 1059.2 | 1064.2 | 1069.1 | 1074.1 | 1078.7 | 1083.2 | 1087.6 | 1092.1 | 1096.5 | 1101.7 |
| 40°    | 1020.8 | 1025.4 | 1030.1 | 1034.7 | 1039.4 | 1044.2 | 1049.2 | 1054.3 | 1059.2 | 1064.3 | 1069.6 |
| 42.5°  | 982.1  | 987.2  | 992.5  | 997.7  | 1003.0 | 1008.6 | 1014.4 | 1020.3 | 1026.1 | 1032.1 | 1038.0 |
| 45°    | 922.4  | 929.2  | 936.0  | 942.8  | 949.6  | 956.4  | 963.2  | 970.1  | 976.8  | 983.7  | 989.8  |
| 47.5°  | 865.3  | 872.3  | 879.4  | 886.4  | 893.4  | 900.9  | 908.8  | 916.7  | 924.5  | 932.4  | 938.7  |
| 50°    | 824.0  | 831.9  | 839.8  | 847.7  | 855.6  | 863.4  | 871.3  | 879.2  | 887.1  | 894.9  | 902.1  |
| 52.5°  | 782.7  | 790.6  | 798.5  | 806.4  | 814.3  | 822.7  | 831.7  | 840.8  | 849.8  | 858.9  | 866.1  |
| 55°    | 722.5  | 729.9  | 737.5  | 745.0  | 752.6  | 761.6  | 772.4  | 783.2  | 794.0  | 804.7  | 811.8  |
| 57.5°  | 655.0  | 664.4  | 673.7  | 683.0  | 692.3  | 702.3  | 713.0  | 723.7  | 734.4  | 745.0  | 753.6  |
| 60°    | 611.2  | 620.5  | 629.8  | 639.1  | 648.4  | 659.0  | 670.9  | 682.7  | 694.5  | 706.3  | 714.6  |
| 62.5°  | 568.6  | 578.8  | 589.0  | 599.2  | 609.3  | 620.3  | 632.2  | 644.0  | 655.8  | 667.6  | 675.8  |
| 65°    | 499.9  | 511.4  | 522.8  | 534.3  | 545.7  | 557.5  | 569.8  | 582.0  | 594.1  | 606.3  | 615.3  |
| 67.5°  | 433.7  | 446.0  | 458.2  | 470.3  | 482.5  | 495.1  | 508.2  | 521.2  | 534.2  | 547.3  | 556.4  |
| 70°    | 388.6  | 400.8  | 413.0  | 425.2  | 437.4  | 450.3  | 463.8  | 477.5  | 491.1  | 504.7  | 514.4  |
| 72.5°  | 344.8  | 357.2  | 369.7  | 382.1  | 394.7  | 408.1  | 422.6  | 437.1  | 451.5  | 466.1  | 475.4  |
| 75°    | 277.4  | 290.6  | 303.9  | 317.1  | 330.4  | 344.6  | 359.6  | 374.7  | 389.7  | 404.8  | 414.8  |
| 77.5°  | 214.5  | 228.5  | 242.6  | 256.6  | 270.6  | 285.6  | 301.3  | 317.1  | 332.9  | 348.6  | 358.8  |
| 80°    | 175.8  | 190.1  | 204.4  | 218.7  | 233.1  | 248.1  | 263.9  | 279.7  | 295.5  | 311.2  | 321.9  |
| 82.5°  | 137.0  | 152.0  | 166.9  | 181.8  | 196.7  | 212.1  | 227.8  | 243.6  | 259.3  | 275.1  | 286.1  |
| 85°    | 85.4   | 100.5  | 115.5  | 130.6  | 145.6  | 161.3  | 177.3  | 193.5  | 209.6  | 225.8  | 236.5  |
| 87.5°  | 47.8   | 62.6   | 77.4   | 92.1   | 106.7  | 122.0  | 138.0  | 153.8  | 169.6  | 185.4  | 195.7  |
| 90°    | 26.2   | 41.2   | 56.7   | 71.3   | 86.0   | 100.9  | 118.5  | 133.8  | 150.0  | 166.0  | 176.1  |
| 92.5°  | 28.6   | 43.3   | 59.6   | 76.9   | 94.9   | 116.5  | 150.1  | 193.2  | 235.6  | 265.1  | 256.3  |
| 95°    | 32.7   | 45.6   | 61.0   | 77.5   | 97.9   | 126.1  | 171.9  | 245.1  | 345.1  | 431.2  | 449.1  |
| 97.5°  | 40.2   | 50.3   | 63.6   | 78.1   | 95.5   | 120.5  | 159.0  | 221.9  | 321.1  | 436.7  | 515.4  |
| 100°   | 44.8   | 54.2   | 66.0   | 79.6   | 95.7   | 118.8  | 153.8  | 208.1  | 294.9  | 409.5  | 510.6  |
| 102.5° | 50.6   | 59.3   | 69.7   | 81.9   | 96.5   | 118.4  | 151.1  | 200.3  | 275.9  | 378.8  | 482.4  |
| 105°   | 56.2   | 64.5   | 73.4   | 84.9   | 98.5   | 119.1  | 149.5  | 192.4  | 255.6  | 340.5  | 433.4  |
| 107.5° | 65.8   | 72.4   | 80.1   | 90.5   | 102.5  | 121.9  | 150.2  | 189.7  | 244.9  | 315.2  | 392.5  |
| 110°   | 71.1   | 76.9   | 83.6   | 92.9   | 104.3  | 122.8  | 151.0  | 188.5  | 240.3  | 304.7  | 371.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 76.0  | 81.2  | 87.8  | 96.1  | 107.0 | 124.9 | 152.0 | 187.5 | 236.2 | 295.6 | 355.5 |
| 115°   | 83.2  | 87.5  | 93.2  | 100.0 | 110.0 | 127.0 | 152.8 | 185.6 | 230.2 | 284.6 | 337.4 |
| 117.5° | 92.3  | 95.2  | 99.4  | 105.2 | 113.5 | 129.9 | 154.1 | 184.5 | 224.9 | 274.6 | 323.7 |
| 120°   | 97.3  | 99.1  | 102.7 | 107.7 | 114.8 | 130.5 | 154.5 | 183.4 | 221.3 | 268.1 | 314.9 |
| 122.5° | 103.0 | 103.9 | 106.6 | 110.5 | 117.3 | 132.1 | 155.4 | 182.7 | 218.0 | 261.4 | 306.2 |
| 125°   | 108.9 | 110.0 | 111.7 | 115.3 | 121.7 | 136.0 | 157.8 | 183.2 | 214.7 | 252.9 | 294.0 |
| 127.5° | 115.2 | 116.0 | 118.2 | 122.3 | 129.1 | 142.4 | 161.7 | 183.6 | 210.2 | 242.4 | 278.8 |
| 130°   | 117.6 | 118.7 | 121.2 | 126.2 | 132.6 | 145.6 | 163.5 | 183.2 | 207.1 | 235.7 | 269.2 |
| 132.5° | 121.3 | 122.1 | 125.4 | 130.2 | 137.1 | 149.1 | 165.8 | 184.0 | 205.1 | 230.2 | 260.9 |
| 135°   | 124.9 | 126.3 | 130.0 | 136.0 | 143.5 | 154.0 | 168.3 | 183.7 | 200.9 | 220.5 | 246.9 |
| 137.5° | 130.2 | 131.2 | 134.7 | 140.2 | 147.5 | 156.8 | 169.1 | 182.3 | 196.4 | 213.0 | 235.3 |
| 140°   | 133.8 | 134.6 | 138.1 | 143.8 | 151.0 | 159.6 | 170.6 | 182.4 | 194.9 | 208.8 | 228.8 |
| 142.5° | 136.5 | 137.5 | 141.2 | 146.8 | 154.0 | 162.1 | 172.3 | 182.7 | 194.0 | 206.2 | 224.0 |
| 145°   | 141.9 | 142.6 | 145.8 | 150.5 | 156.8 | 164.5 | 173.8 | 183.5 | 193.8 | 204.9 | 218.4 |
| 147.5° | 148.2 | 148.2 | 151.0 | 155.8 | 161.1 | 167.9 | 176.6 | 185.1 | 194.2 | 203.6 | 213.9 |
| 150°   | 152.2 | 152.2 | 154.7 | 158.6 | 163.6 | 170.3 | 178.1 | 185.9 | 194.2 | 202.7 | 211.7 |
| 152.5° | 154.6 | 154.6 | 157.4 | 161.4 | 166.0 | 172.3 | 179.3 | 186.5 | 193.6 | 201.3 | 209.3 |
| 155°   | 159.6 | 159.9 | 162.1 | 165.6 | 169.6 | 174.9 | 181.0 | 187.0 | 192.8 | 199.1 | 205.9 |
| 157.5° | 164.6 | 164.6 | 166.6 | 169.4 | 172.8 | 177.0 | 182.2 | 187.0 | 191.8 | 196.9 | 202.5 |
| 160°   | 167.7 | 167.7 | 169.2 | 171.7 | 174.5 | 178.4 | 182.8 | 187.0 | 191.0 | 195.2 | 199.9 |
| 162.5° | 170.6 | 170.4 | 171.5 | 173.7 | 176.2 | 179.4 | 183.3 | 187.0 | 190.1 | 193.5 | 197.6 |
| 165°   | 173.8 | 173.8 | 174.5 | 176.3 | 178.1 | 180.3 | 183.5 | 186.3 | 188.4 | 191.0 | 193.8 |
| 167.5° | 177.0 | 176.6 | 177.0 | 178.3 | 179.4 | 181.1 | 183.4 | 185.4 | 186.7 | 188.3 | 190.4 |
| 170°   | 178.4 | 178.1 | 178.4 | 179.6 | 180.3 | 181.3 | 183.1 | 184.9 | 185.6 | 186.6 | 188.1 |
| 172.5° | 179.9 | 179.6 | 179.6 | 180.4 | 180.8 | 181.6 | 182.8 | 184.3 | 184.5 | 184.9 | 186.1 |
| 175°   | 181.3 | 181.0 | 181.0 | 181.3 | 181.7 | 181.7 | 182.4 | 183.5 | 183.1 | 183.1 | 183.8 |
| 177.5° | 182.0 | 181.7 | 181.4 | 181.7 | 181.7 | 181.7 | 182.0 | 182.5 | 182.0 | 182.0 | 182.3 |
| 180°   | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 |



TEST NUMBER: P332675-840

CATALOG NUMBER: S124DIP-S1195D365U840-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 | 1440.1 |
| 2.5°   | 1435.0 | 1437.0 | 1439.1 | 1439.9 | 1439.6 | 1439.3 | 1439.1 | 1438.8 |
| 5°     | 1431.3 | 1434.1 | 1436.9 | 1438.2 | 1437.8 | 1437.5 | 1437.1 | 1436.8 |
| 7.5°   | 1423.6 | 1426.8 | 1430.1 | 1431.5 | 1431.1 | 1430.8 | 1430.4 | 1430.1 |
| 10°    | 1415.8 | 1419.1 | 1422.3 | 1423.7 | 1423.4 | 1423.0 | 1422.6 | 1422.3 |
| 12.5°  | 1404.9 | 1407.9 | 1410.8 | 1412.3 | 1412.2 | 1412.1 | 1412.0 | 1412.0 |
| 15°    | 1385.2 | 1388.5 | 1391.6 | 1393.1 | 1392.7 | 1392.4 | 1392.0 | 1391.6 |
| 17.5°  | 1361.2 | 1364.4 | 1367.8 | 1369.3 | 1369.0 | 1368.7 | 1368.4 | 1368.1 |
| 20°    | 1342.4 | 1345.9 | 1349.6 | 1351.3 | 1351.3 | 1351.3 | 1351.3 | 1351.3 |
| 22.5°  | 1320.4 | 1324.0 | 1327.6 | 1329.7 | 1330.3 | 1330.8 | 1331.4 | 1332.0 |
| 25°    | 1286.7 | 1290.6 | 1294.5 | 1296.7 | 1297.1 | 1297.4 | 1297.8 | 1298.1 |
| 27.5°  | 1248.7 | 1252.3 | 1256.0 | 1258.0 | 1258.5 | 1258.9 | 1259.3 | 1259.7 |
| 30°    | 1222.1 | 1226.1 | 1230.0 | 1232.3 | 1233.0 | 1233.8 | 1234.5 | 1235.3 |
| 32.5°  | 1194.9 | 1199.4 | 1204.0 | 1206.6 | 1207.3 | 1208.0 | 1208.7 | 1209.4 |
| 35°    | 1151.8 | 1156.7 | 1161.7 | 1164.8 | 1165.9 | 1167.0 | 1168.0 | 1169.1 |
| 37.5°  | 1106.7 | 1111.8 | 1116.9 | 1120.0 | 1121.2 | 1122.3 | 1123.5 | 1124.6 |
| 40°    | 1075.0 | 1080.5 | 1085.8 | 1089.2 | 1090.7 | 1092.1 | 1093.5 | 1094.9 |
| 42.5°  | 1043.9 | 1049.9 | 1055.8 | 1059.3 | 1060.6 | 1061.7 | 1062.8 | 1064.0 |
| 45°    | 995.8  | 1002.0 | 1008.0 | 1012.0 | 1013.8 | 1015.5 | 1017.3 | 1019.2 |
| 47.5°  | 945.0  | 951.3  | 957.7  | 961.8  | 964.0  | 966.1  | 968.3  | 970.5  |
| 50°    | 909.3  | 916.5  | 923.6  | 928.3  | 930.5  | 932.6  | 934.7  | 936.9  |
| 52.5°  | 873.2  | 880.4  | 887.5  | 892.2  | 894.3  | 896.5  | 898.6  | 900.8  |
| 55°    | 819.0  | 826.2  | 833.3  | 838.0  | 840.1  | 842.3  | 844.4  | 846.6  |
| 57.5°  | 762.0  | 770.6  | 779.1  | 784.4  | 786.4  | 788.4  | 790.4  | 792.4  |
| 60°    | 722.8  | 731.0  | 739.2  | 744.8  | 747.7  | 750.5  | 753.5  | 756.3  |
| 62.5°  | 684.1  | 692.4  | 700.5  | 706.1  | 709.0  | 711.9  | 714.7  | 717.6  |
| 65°    | 624.2  | 633.2  | 642.2  | 648.0  | 651.0  | 653.8  | 656.7  | 659.5  |
| 67.5°  | 565.5  | 574.6  | 583.7  | 589.7  | 592.5  | 595.2  | 598.0  | 600.9  |
| 70°    | 524.1  | 533.7  | 543.4  | 549.6  | 552.0  | 554.5  | 557.0  | 559.6  |
| 72.5°  | 484.8  | 494.2  | 503.6  | 509.7  | 512.5  | 515.2  | 518.1  | 520.9  |
| 75°    | 424.9  | 434.8  | 444.8  | 451.5  | 454.7  | 458.0  | 461.2  | 464.4  |
| 77.5°  | 369.0  | 379.2  | 389.3  | 396.2  | 399.6  | 403.0  | 406.5  | 409.9  |
| 80°    | 332.8  | 343.5  | 354.3  | 361.0  | 363.9  | 366.8  | 369.6  | 372.5  |
| 82.5°  | 297.2  | 308.2  | 319.2  | 326.4  | 329.5  | 332.6  | 335.8  | 338.9  |
| 85°    | 247.2  | 258.0  | 268.7  | 275.9  | 279.5  | 283.1  | 286.7  | 290.2  |
| 87.5°  | 206.2  | 216.7  | 227.1  | 233.9  | 237.1  | 240.3  | 243.5  | 246.6  |
| 90°    | 186.8  | 197.6  | 208.3  | 215.0  | 218.2  | 221.5  | 223.9  | 226.8  |
| 92.5°  | 242.2  | 235.0  | 234.3  | 233.7  | 232.3  | 233.3  | 234.9  | 237.7  |
| 95°    | 424.1  | 378.5  | 340.3  | 312.1  | 297.9  | 290.0  | 286.8  | 285.4  |
| 97.5°  | 539.8  | 528.7  | 503.1  | 472.1  | 449.6  | 431.1  | 423.5  | 419.2  |
| 100°   | 572.4  | 589.2  | 581.4  | 561.0  | 532.5  | 513.2  | 505.0  | 504.6  |
| 102.5° | 563.3  | 608.1  | 622.6  | 617.6  | 601.4  | 588.4  | 580.0  | 580.5  |
| 105°   | 524.1  | 594.8  | 639.0  | 659.6  | 663.2  | 663.2  | 661.1  | 661.9  |
| 107.5° | 473.7  | 548.3  | 606.8  | 644.4  | 664.6  | 675.3  | 681.5  | 684.9  |
| 110°   | 442.8  | 512.8  | 572.8  | 617.6  | 645.8  | 663.7  | 673.0  | 679.0  |





TEST NUMBER: P332675-840

CATALOG NUMBER: S124DIP-S1195D365U840-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 417.8 | 480.4 | 537.2 | 581.9 | 613.5 | 634.5 | 646.4 | 654.5 |
| 115°   | 389.9 | 441.7 | 491.4 | 530.8 | 561.5 | 585.4 | 599.4 | 604.7 |
| 117.5° | 370.5 | 414.3 | 454.6 | 488.9 | 515.7 | 536.6 | 551.1 | 556.1 |
| 120°   | 359.5 | 399.9 | 435.7 | 466.0 | 489.2 | 507.8 | 519.9 | 526.6 |
| 122.5° | 349.6 | 388.9 | 422.0 | 449.1 | 468.9 | 484.8 | 495.3 | 501.8 |
| 125°   | 335.0 | 372.5 | 403.9 | 428.1 | 444.5 | 457.0 | 466.0 | 470.2 |
| 127.5° | 317.5 | 353.3 | 384.3 | 407.4 | 424.1 | 435.8 | 443.9 | 448.5 |
| 130°   | 305.3 | 340.0 | 370.7 | 393.9 | 410.7 | 421.7 | 429.6 | 433.9 |
| 132.5° | 293.6 | 326.3 | 356.1 | 379.2 | 395.7 | 407.9 | 415.5 | 419.8 |
| 135°   | 275.1 | 304.1 | 331.5 | 353.4 | 369.7 | 381.9 | 389.8 | 394.0 |
| 137.5° | 259.2 | 284.1 | 307.6 | 327.3 | 342.4 | 354.1 | 360.5 | 365.0 |
| 140°   | 249.8 | 271.4 | 292.1 | 310.2 | 324.6 | 334.2 | 340.9 | 345.6 |
| 142.5° | 242.2 | 261.1 | 278.9 | 294.7 | 307.2 | 316.0 | 321.9 | 325.5 |
| 145°   | 232.0 | 246.3 | 259.1 | 270.9 | 281.2 | 288.8 | 293.8 | 297.0 |
| 147.5° | 223.7 | 233.6 | 242.5 | 251.0 | 258.7 | 265.1 | 268.9 | 270.7 |
| 150°   | 220.3 | 228.4 | 235.6 | 242.0 | 247.7 | 252.4 | 254.5 | 254.8 |
| 152.5° | 217.1 | 224.2 | 230.8 | 236.0 | 240.9 | 244.6 | 245.9 | 246.3 |
| 155°   | 212.4 | 218.0 | 223.4 | 227.7 | 231.3 | 234.1 | 235.2 | 235.2 |
| 157.5° | 207.3 | 212.1 | 216.6 | 220.0 | 222.7 | 224.9 | 225.5 | 225.5 |
| 160°   | 204.2 | 208.0 | 212.0 | 214.9 | 217.0 | 219.1 | 219.5 | 219.5 |
| 162.5° | 201.1 | 204.4 | 207.4 | 210.1 | 211.6 | 213.7 | 214.1 | 213.8 |
| 165°   | 196.6 | 198.8 | 201.3 | 203.1 | 204.5 | 205.9 | 205.6 | 205.2 |
| 167.5° | 192.5 | 194.1 | 196.1 | 197.1 | 197.8 | 198.8 | 198.7 | 198.4 |
| 170°   | 189.9 | 191.0 | 192.4 | 193.5 | 194.2 | 194.5 | 194.2 | 194.2 |
| 172.5° | 187.6 | 188.3 | 189.2 | 190.1 | 190.5 | 190.8 | 190.5 | 189.9 |
| 175°   | 184.5 | 184.9 | 185.6 | 185.6 | 185.6 | 186.3 | 185.6 | 184.9 |
| 177.5° | 182.5 | 182.8 | 182.8 | 183.1 | 182.8 | 183.1 | 182.5 | 182.0 |
| 180°   | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 |

(END OF REPORT)