

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P584114

Luminaire Tested: **HC825D010-HM82555827-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555827-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2245.7 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

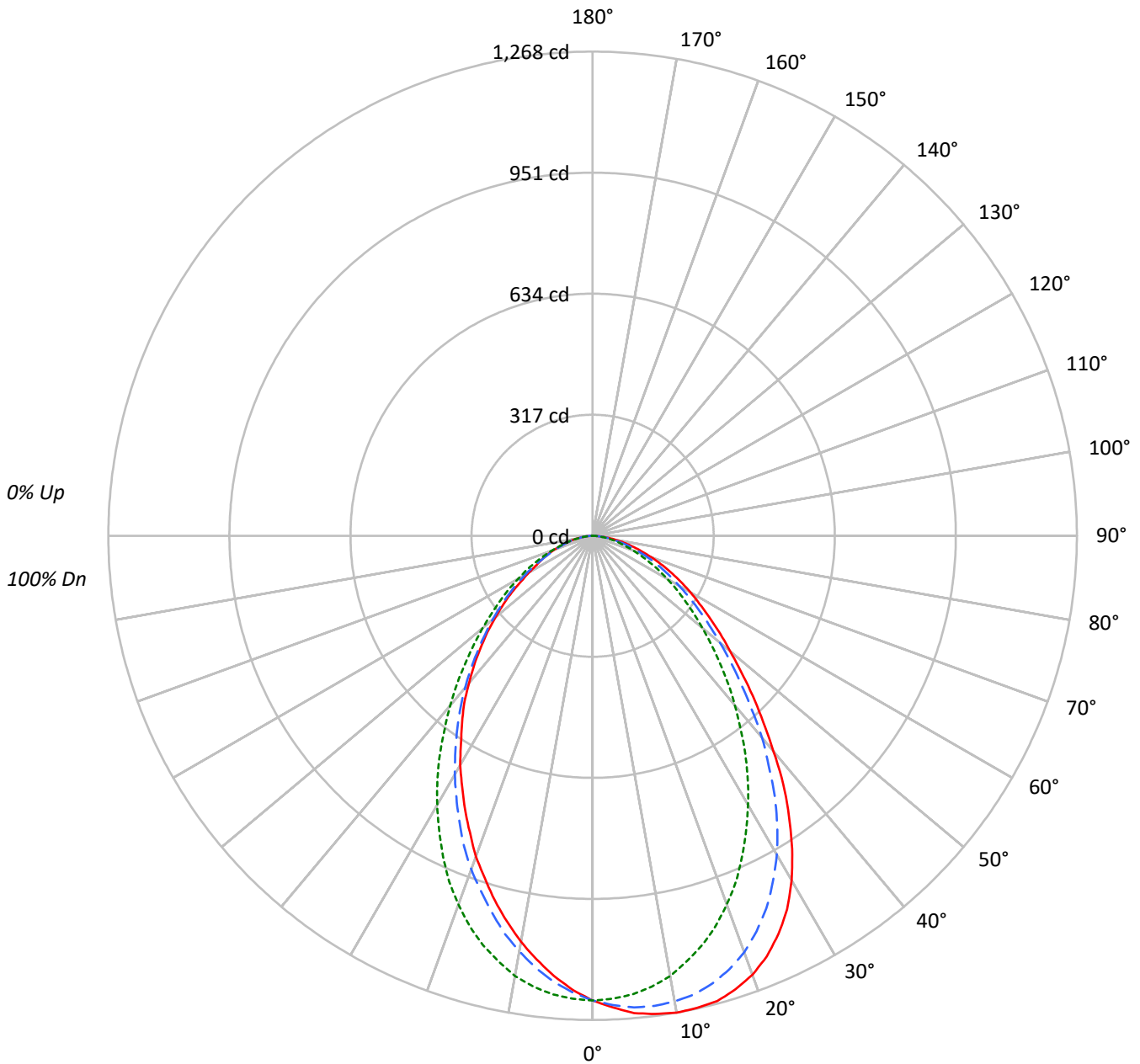
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584114

CATALOG NUMBER: HC825D010-HM82555827-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P584114

CATALOG NUMBER: HC825D010-HM82555827-81WWW

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 | 0 | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 81 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 68 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 54 | 64 | 59 | 54 | 63 | 57 | 53 | 51 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 41 | | | | | | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 37525 | 37525 | 37525 |
| 5° | 38841 | 37312 | 35826 |
| 10° | 39707 | 36654 | 33811 |
| 15° | 40269 | 35423 | 31573 |
| 20° | 40146 | 33701 | 29311 |
| 25° | 39155 | 31517 | 26906 |
| 30° | 37099 | 28980 | 24693 |
| 35° | 33752 | 26230 | 22440 |
| 40° | 29643 | 23327 | 20268 |
| 45° | 25851 | 20522 | 18072 |
| 50° | 22494 | 17980 | 15922 |
| 55° | 20058 | 15800 | 13844 |
| 60° | 18224 | 13852 | 11810 |
| 65° | 16388 | 12047 | 10719 |
| 70° | 14588 | 10278 | 9674 |
| 75° | 12784 | 8662 | 8257 |
| 80° | 10850 | 7032 | 7334 |
| 85° | 8173 | 5272 | 5838 |



TEST NUMBER: P584114

CATALOG NUMBER: HC825D010-HM82555827-81WWW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 114.0 | 5.1 |
| 10°-20° | 314.0 | 14.0 |
| 20°-30° | 435.9 | 19.4 |
| 30°-40° | 450.7 | 20.1 |
| 40°-50° | 377.4 | 16.8 |
| 50°-60° | 274.0 | 12.2 |
| 60°-70° | 172.9 | 7.7 |
| 70°-80° | 85.6 | 3.8 |
| 80°-90° | 21.3 | 0.9 |
| 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° | 863.9 | 38.5 |
| 0°-40° | 1314.6 | 58.5 |
| 0°-60° | 1966.0 | 87.5 |
| 0°-90° | 2245.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2245.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1217 | 1217 | 1217 | 1217 | 1217 | |
| 5° | 1255 | 1240 | 1205 | 1172 | 1157 | 120 |
| 15° | 1261 | 1214 | 1110 | 1020 | 989 | 355 |
| 25° | 1151 | 1076 | 926 | 826 | 791 | 527 |
| 35° | 897 | 830 | 697 | 618 | 596 | 558 |
| 45° | 593 | 550 | 471 | 424 | 414 | 458 |
| 55° | 373 | 340 | 294 | 269 | 258 | 337 |
| 65° | 225 | 196 | 165 | 145 | 147 | 224 |
| 75° | 107 | 89 | 73 | 69 | 69 | 115 |
| 85° | 23 | 18 | 15 | 16 | 16 | 28 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P584114

CATALOG NUMBER: HC825D010-HM82555827-81WWW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 |
| 2.5° | 1236.7 | 1236.7 | 1238.3 | 1236.7 | 1236.7 | 1236.7 | 1235.0 | 1235.0 | 1233.4 | 1233.4 | 1230.1 |
| 5° | 1254.8 | 1251.6 | 1254.8 | 1251.6 | 1251.6 | 1251.6 | 1249.9 | 1246.6 | 1244.9 | 1241.6 | 1240.0 |
| 7.5° | 1263.1 | 1261.4 | 1261.4 | 1259.8 | 1259.8 | 1258.1 | 1256.5 | 1254.8 | 1248.3 | 1246.6 | 1241.6 |
| 10° | 1268.1 | 1266.3 | 1266.3 | 1264.7 | 1261.4 | 1261.4 | 1258.1 | 1256.5 | 1248.3 | 1244.9 | 1238.3 |
| 12.5° | 1266.3 | 1266.3 | 1266.3 | 1264.7 | 1259.8 | 1258.1 | 1254.8 | 1249.9 | 1243.2 | 1236.7 | 1230.1 |
| 15° | 1261.4 | 1261.4 | 1258.1 | 1256.5 | 1251.6 | 1248.3 | 1246.6 | 1238.3 | 1231.7 | 1223.4 | 1213.6 |
| 17.5° | 1244.9 | 1244.9 | 1243.2 | 1240.0 | 1235.0 | 1231.7 | 1228.5 | 1220.1 | 1213.6 | 1200.3 | 1190.5 |
| 20° | 1223.4 | 1221.8 | 1220.1 | 1215.2 | 1210.3 | 1208.6 | 1203.6 | 1192.1 | 1183.8 | 1173.9 | 1160.7 |
| 22.5° | 1192.1 | 1190.5 | 1188.8 | 1185.5 | 1177.2 | 1173.9 | 1170.6 | 1162.3 | 1147.5 | 1137.6 | 1121.1 |
| 25° | 1150.8 | 1150.8 | 1147.5 | 1142.5 | 1134.3 | 1131.0 | 1126.1 | 1117.8 | 1104.6 | 1089.7 | 1076.5 |
| 27.5° | 1103.0 | 1101.2 | 1096.3 | 1093.0 | 1086.4 | 1081.4 | 1073.2 | 1063.3 | 1050.1 | 1038.5 | 1022.1 |
| 30° | 1041.9 | 1041.9 | 1038.5 | 1033.6 | 1025.4 | 1022.1 | 1015.4 | 1003.9 | 990.7 | 975.8 | 964.3 |
| 32.5° | 972.5 | 972.5 | 967.5 | 964.3 | 959.3 | 951.0 | 949.4 | 936.1 | 924.6 | 913.0 | 899.9 |
| 35° | 896.6 | 898.2 | 894.9 | 888.3 | 880.1 | 880.1 | 876.8 | 865.2 | 851.9 | 840.4 | 830.5 |
| 37.5° | 820.6 | 815.7 | 813.9 | 810.7 | 805.7 | 799.2 | 795.9 | 790.8 | 779.3 | 771.0 | 756.2 |
| 40° | 736.4 | 738.1 | 734.8 | 731.5 | 729.7 | 724.8 | 723.2 | 715.0 | 706.6 | 696.8 | 690.2 |
| 42.5° | 660.4 | 660.4 | 660.4 | 657.1 | 653.9 | 648.8 | 647.2 | 642.3 | 632.4 | 625.7 | 615.9 |
| 45° | 592.8 | 587.8 | 587.8 | 586.1 | 584.5 | 581.2 | 576.2 | 573.0 | 566.4 | 561.3 | 549.8 |
| 47.5° | 526.7 | 528.4 | 526.7 | 525.0 | 520.1 | 518.4 | 516.8 | 510.2 | 503.5 | 498.6 | 490.4 |
| 50° | 468.9 | 472.2 | 468.9 | 468.9 | 465.6 | 464.0 | 460.6 | 455.7 | 450.8 | 442.4 | 434.2 |
| 52.5° | 421.0 | 421.0 | 419.3 | 417.7 | 412.8 | 409.5 | 407.8 | 406.2 | 397.9 | 391.3 | 384.7 |
| 55° | 373.1 | 374.8 | 374.8 | 369.9 | 368.2 | 364.9 | 363.3 | 358.2 | 355.0 | 345.1 | 340.2 |
| 57.5° | 331.9 | 330.2 | 331.9 | 328.6 | 325.3 | 322.0 | 320.4 | 317.0 | 312.0 | 305.5 | 298.9 |
| 60° | 295.5 | 292.2 | 292.2 | 290.6 | 287.3 | 285.7 | 282.4 | 277.3 | 272.4 | 265.8 | 260.9 |
| 62.5° | 259.3 | 257.5 | 255.9 | 254.2 | 250.9 | 249.3 | 247.7 | 242.7 | 237.8 | 232.8 | 227.8 |
| 65° | 224.6 | 224.6 | 222.9 | 219.6 | 218.0 | 216.2 | 214.6 | 211.3 | 204.7 | 201.5 | 196.5 |
| 67.5° | 193.1 | 191.5 | 191.5 | 188.2 | 184.9 | 183.3 | 183.3 | 180.0 | 175.1 | 170.0 | 166.8 |
| 70° | 161.8 | 163.5 | 161.8 | 160.2 | 156.9 | 156.9 | 153.5 | 151.9 | 145.3 | 143.6 | 138.7 |
| 72.5° | 133.8 | 133.8 | 132.0 | 132.0 | 128.8 | 127.1 | 127.1 | 123.8 | 120.5 | 117.3 | 114.0 |
| 75° | 107.3 | 107.3 | 107.3 | 105.7 | 104.0 | 100.7 | 100.7 | 99.1 | 95.8 | 92.4 | 89.1 |
| 77.5° | 84.2 | 82.6 | 82.6 | 80.9 | 79.3 | 77.6 | 77.6 | 76.0 | 72.7 | 71.0 | 67.7 |
| 80° | 61.1 | 59.5 | 59.5 | 59.5 | 56.2 | 57.8 | 56.2 | 54.5 | 52.9 | 51.1 | 49.5 |
| 82.5° | 39.6 | 41.3 | 41.3 | 39.6 | 38.0 | 38.0 | 38.0 | 36.3 | 36.3 | 34.7 | 33.1 |
| 85° | 23.1 | 23.1 | 23.1 | 23.1 | 21.5 | 21.5 | 21.5 | 19.8 | 19.8 | 19.8 | 18.2 |
| 87.5° | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 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: P584114

CATALOG NUMBER: HC825D010-HM82555827-81WWW

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 |
| 2.5° | 1230.1 | 1226.8 | 1225.2 | 1223.4 | 1223.4 | 1221.8 | 1220.1 | 1216.9 | 1216.9 | 1213.6 | 1211.9 |
| 5° | 1236.7 | 1231.7 | 1228.5 | 1225.2 | 1223.4 | 1220.1 | 1216.9 | 1211.9 | 1210.3 | 1205.4 | 1200.3 |
| 7.5° | 1238.3 | 1230.1 | 1226.8 | 1220.1 | 1216.9 | 1213.6 | 1207.0 | 1202.0 | 1195.4 | 1190.5 | 1183.8 |
| 10° | 1231.7 | 1225.2 | 1216.9 | 1208.6 | 1207.0 | 1202.0 | 1192.1 | 1185.5 | 1177.2 | 1170.6 | 1160.7 |
| 12.5° | 1221.8 | 1211.9 | 1203.6 | 1193.8 | 1188.8 | 1183.8 | 1173.9 | 1164.1 | 1152.5 | 1140.9 | 1131.0 |
| 15° | 1205.4 | 1193.8 | 1182.1 | 1170.6 | 1164.1 | 1159.0 | 1147.5 | 1135.9 | 1124.4 | 1109.6 | 1099.6 |
| 17.5° | 1180.5 | 1167.4 | 1155.8 | 1140.9 | 1134.3 | 1129.4 | 1114.5 | 1101.2 | 1086.4 | 1071.6 | 1061.7 |
| 20° | 1149.2 | 1132.7 | 1119.4 | 1103.0 | 1098.0 | 1089.7 | 1074.8 | 1060.0 | 1043.5 | 1027.0 | 1015.4 |
| 22.5° | 1107.9 | 1091.4 | 1076.5 | 1060.0 | 1051.7 | 1043.5 | 1028.6 | 1010.5 | 993.9 | 980.8 | 969.2 |
| 25° | 1060.0 | 1045.2 | 1027.0 | 1012.1 | 1002.3 | 992.3 | 975.8 | 961.0 | 946.1 | 926.3 | 914.7 |
| 27.5° | 1007.2 | 989.0 | 975.8 | 955.9 | 946.1 | 939.5 | 921.3 | 901.5 | 888.3 | 870.1 | 857.0 |
| 30° | 947.7 | 931.2 | 916.3 | 896.6 | 886.6 | 880.1 | 863.5 | 845.4 | 832.1 | 813.9 | 800.8 |
| 32.5° | 885.0 | 866.8 | 848.6 | 835.5 | 823.9 | 817.3 | 799.2 | 787.6 | 771.0 | 756.2 | 741.3 |
| 35° | 817.3 | 799.2 | 785.9 | 767.7 | 761.2 | 754.6 | 739.7 | 724.8 | 709.9 | 696.8 | 685.2 |
| 37.5° | 744.6 | 731.5 | 716.6 | 703.4 | 698.4 | 691.9 | 673.7 | 660.4 | 648.8 | 635.7 | 625.7 |
| 40° | 673.7 | 662.1 | 652.2 | 639.0 | 630.8 | 625.7 | 612.6 | 601.0 | 587.8 | 579.5 | 569.7 |
| 42.5° | 609.3 | 596.1 | 586.1 | 576.2 | 568.0 | 563.0 | 551.5 | 543.2 | 533.3 | 525.0 | 513.5 |
| 45° | 541.5 | 535.0 | 523.4 | 515.1 | 510.2 | 503.5 | 495.3 | 485.5 | 477.2 | 470.6 | 462.3 |
| 47.5° | 482.1 | 475.5 | 467.3 | 457.3 | 454.0 | 449.1 | 440.8 | 434.2 | 427.7 | 421.0 | 412.8 |
| 50° | 427.7 | 419.3 | 412.8 | 406.2 | 402.9 | 397.9 | 389.7 | 386.4 | 381.5 | 374.8 | 369.9 |
| 52.5° | 378.1 | 371.5 | 364.9 | 356.6 | 355.0 | 351.7 | 346.7 | 340.2 | 335.1 | 331.9 | 328.6 |
| 55° | 333.5 | 326.9 | 322.0 | 315.3 | 313.7 | 310.4 | 303.8 | 300.5 | 297.2 | 293.9 | 290.6 |
| 57.5° | 293.9 | 287.3 | 280.7 | 277.3 | 274.1 | 270.8 | 269.1 | 264.2 | 260.9 | 259.3 | 255.9 |
| 60° | 257.5 | 250.9 | 246.0 | 241.1 | 239.4 | 237.8 | 234.4 | 231.1 | 227.8 | 224.6 | 222.9 |
| 62.5° | 222.9 | 216.2 | 213.0 | 209.7 | 206.4 | 206.4 | 203.1 | 199.8 | 196.5 | 194.8 | 191.5 |
| 65° | 191.5 | 188.2 | 183.3 | 178.4 | 176.7 | 176.7 | 171.7 | 170.0 | 168.4 | 165.1 | 161.8 |
| 67.5° | 161.8 | 158.5 | 153.5 | 151.9 | 150.2 | 148.6 | 146.9 | 143.6 | 140.4 | 138.7 | 135.4 |
| 70° | 135.4 | 132.0 | 128.8 | 127.1 | 125.5 | 123.8 | 120.5 | 118.9 | 115.6 | 114.0 | 112.2 |
| 72.5° | 108.9 | 107.3 | 104.0 | 102.4 | 100.7 | 99.1 | 97.4 | 95.8 | 92.4 | 90.8 | 89.1 |
| 75° | 87.5 | 85.8 | 82.6 | 80.9 | 79.3 | 79.3 | 77.6 | 74.3 | 72.7 | 72.7 | 71.0 |
| 77.5° | 66.0 | 64.4 | 62.7 | 61.1 | 59.5 | 59.5 | 57.8 | 56.2 | 54.5 | 54.5 | 52.9 |
| 80° | 47.8 | 46.2 | 44.6 | 44.6 | 44.6 | 42.9 | 41.3 | 41.3 | 39.6 | 39.6 | 38.0 |
| 82.5° | 31.4 | 31.4 | 29.7 | 29.7 | 29.7 | 28.0 | 28.0 | 26.4 | 26.4 | 26.4 | 26.4 |
| 85° | 18.2 | 18.2 | 18.2 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 14.9 | 16.5 |
| 87.5° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 6.6 | 6.6 | 6.6 |
| 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: P584114

CATALOG NUMBER: HC825D010-HM82555827-81WWW

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 |
| 2.5° | 1210.3 | 1208.6 | 1205.4 | 1205.4 | 1202.0 | 1202.0 | 1200.3 | 1198.7 | 1197.0 | 1195.4 | 1193.8 |
| 5° | 1198.7 | 1192.1 | 1188.8 | 1187.2 | 1183.8 | 1182.1 | 1177.2 | 1173.9 | 1172.3 | 1169.0 | 1165.7 |
| 7.5° | 1177.2 | 1170.6 | 1164.1 | 1162.3 | 1160.7 | 1154.1 | 1149.2 | 1144.3 | 1140.9 | 1137.6 | 1134.3 |
| 10° | 1152.5 | 1145.9 | 1137.6 | 1134.3 | 1131.0 | 1122.8 | 1116.1 | 1111.2 | 1104.6 | 1098.0 | 1096.3 |
| 12.5° | 1122.8 | 1112.8 | 1103.0 | 1099.6 | 1094.7 | 1086.4 | 1079.8 | 1071.6 | 1066.6 | 1058.3 | 1056.7 |
| 15° | 1088.1 | 1076.5 | 1068.3 | 1060.0 | 1056.7 | 1048.5 | 1036.9 | 1030.3 | 1020.4 | 1017.0 | 1008.8 |
| 17.5° | 1046.8 | 1035.2 | 1023.7 | 1020.4 | 1015.4 | 1003.9 | 992.3 | 984.1 | 974.1 | 969.2 | 964.3 |
| 20° | 1003.9 | 989.0 | 977.4 | 974.1 | 967.5 | 957.6 | 946.1 | 937.9 | 929.6 | 919.7 | 914.7 |
| 22.5° | 954.3 | 937.9 | 927.9 | 919.7 | 918.1 | 906.5 | 893.2 | 886.6 | 880.1 | 871.7 | 865.2 |
| 25° | 899.9 | 885.0 | 873.4 | 866.8 | 863.5 | 853.6 | 843.7 | 835.5 | 825.5 | 820.6 | 812.3 |
| 27.5° | 843.7 | 833.9 | 819.0 | 812.3 | 807.4 | 799.2 | 787.6 | 782.6 | 772.8 | 766.1 | 761.2 |
| 30° | 789.2 | 774.4 | 766.1 | 757.9 | 752.9 | 744.6 | 734.8 | 729.7 | 721.5 | 715.0 | 709.9 |
| 32.5° | 729.7 | 719.9 | 708.3 | 705.0 | 698.4 | 690.2 | 683.5 | 675.3 | 668.6 | 662.1 | 660.4 |
| 35° | 675.3 | 662.1 | 650.6 | 647.2 | 642.3 | 634.0 | 630.8 | 625.7 | 617.5 | 615.9 | 609.3 |
| 37.5° | 615.9 | 609.3 | 596.1 | 591.1 | 589.5 | 582.8 | 576.2 | 573.0 | 568.0 | 563.0 | 561.3 |
| 40° | 559.7 | 551.5 | 544.8 | 539.9 | 536.6 | 531.7 | 525.0 | 523.4 | 520.1 | 513.5 | 511.9 |
| 42.5° | 506.9 | 498.6 | 492.0 | 490.4 | 485.5 | 480.4 | 477.2 | 472.2 | 470.6 | 468.9 | 465.6 |
| 45° | 455.7 | 450.8 | 444.2 | 442.4 | 440.8 | 434.2 | 430.9 | 427.7 | 424.4 | 422.6 | 419.3 |
| 47.5° | 409.5 | 404.6 | 399.5 | 397.9 | 394.6 | 393.0 | 388.0 | 386.4 | 381.5 | 379.7 | 378.1 |
| 50° | 364.9 | 361.6 | 358.2 | 356.6 | 353.3 | 351.7 | 348.4 | 345.1 | 341.8 | 340.2 | 338.4 |
| 52.5° | 325.3 | 322.0 | 318.6 | 317.0 | 315.3 | 312.0 | 308.8 | 305.5 | 303.8 | 302.2 | 300.5 |
| 55° | 287.3 | 284.0 | 282.4 | 280.7 | 279.1 | 277.3 | 272.4 | 270.8 | 269.1 | 267.5 | 264.2 |
| 57.5° | 252.6 | 249.3 | 246.0 | 246.0 | 244.4 | 242.7 | 239.4 | 236.1 | 236.1 | 232.8 | 229.5 |
| 60° | 221.3 | 218.0 | 214.6 | 213.0 | 211.3 | 208.0 | 206.4 | 204.7 | 203.1 | 201.5 | 198.2 |
| 62.5° | 188.2 | 186.6 | 183.3 | 183.3 | 180.0 | 178.4 | 176.7 | 175.1 | 173.3 | 170.0 | 168.4 |
| 65° | 160.2 | 158.5 | 155.2 | 153.5 | 153.5 | 151.9 | 148.6 | 146.9 | 145.3 | 145.3 | 143.6 |
| 67.5° | 133.8 | 132.0 | 128.8 | 127.1 | 127.1 | 125.5 | 123.8 | 123.8 | 122.2 | 120.5 | 122.2 |
| 70° | 110.6 | 107.3 | 107.3 | 105.7 | 105.7 | 104.0 | 102.4 | 102.4 | 102.4 | 104.0 | 104.0 |
| 72.5° | 87.5 | 85.8 | 84.2 | 84.2 | 84.2 | 84.2 | 82.6 | 82.6 | 84.2 | 85.8 | 85.8 |
| 75° | 69.3 | 67.7 | 67.7 | 67.7 | 66.0 | 66.0 | 67.7 | 67.7 | 69.3 | 69.3 | 69.3 |
| 77.5° | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 52.9 | 52.9 | 54.5 | 54.5 | 54.5 |
| 80° | 38.0 | 38.0 | 38.0 | 38.0 | 38.0 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 | 41.3 |
| 82.5° | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 28.0 | 28.0 | 28.0 | 28.0 |
| 85° | 14.9 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| 87.5° | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| 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: P584114

CATALOG NUMBER: HC825D010-HM82555827-81WWW

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 |
| 2.5° | 1192.1 | 1192.1 | 1192.1 | 1193.8 | 1190.5 | 1190.5 | 1190.5 | 1190.5 |
| 5° | 1164.1 | 1162.3 | 1160.7 | 1162.3 | 1159.0 | 1159.0 | 1157.4 | 1157.4 |
| 7.5° | 1129.4 | 1127.7 | 1126.1 | 1126.1 | 1122.8 | 1122.8 | 1121.1 | 1119.4 |
| 10° | 1091.4 | 1088.1 | 1089.7 | 1086.4 | 1084.8 | 1083.2 | 1081.4 | 1079.8 |
| 12.5° | 1050.1 | 1046.8 | 1045.2 | 1041.9 | 1038.5 | 1036.9 | 1038.5 | 1035.2 |
| 15° | 1005.5 | 1000.6 | 999.0 | 995.6 | 992.3 | 990.7 | 990.7 | 989.0 |
| 17.5° | 955.9 | 952.7 | 951.0 | 947.7 | 946.1 | 942.8 | 941.2 | 939.5 |
| 20° | 909.7 | 901.5 | 903.2 | 899.9 | 898.2 | 891.6 | 891.6 | 893.2 |
| 22.5° | 858.6 | 853.6 | 850.3 | 847.0 | 845.4 | 842.1 | 842.1 | 840.4 |
| 25° | 807.4 | 802.4 | 800.8 | 797.5 | 795.9 | 792.5 | 790.8 | 790.8 |
| 27.5° | 757.9 | 751.2 | 751.2 | 747.9 | 744.6 | 743.0 | 741.3 | 739.7 |
| 30° | 705.0 | 700.1 | 698.4 | 698.4 | 696.8 | 696.8 | 691.9 | 693.5 |
| 32.5° | 655.5 | 652.2 | 650.6 | 647.2 | 647.2 | 645.5 | 645.5 | 640.6 |
| 35° | 605.9 | 601.0 | 602.6 | 599.3 | 597.7 | 596.1 | 597.7 | 596.1 |
| 37.5° | 558.1 | 554.8 | 554.8 | 551.5 | 551.5 | 549.8 | 548.2 | 551.5 |
| 40° | 510.2 | 508.6 | 506.9 | 505.3 | 506.9 | 505.3 | 501.9 | 503.5 |
| 42.5° | 462.3 | 462.3 | 460.6 | 460.6 | 459.0 | 459.0 | 459.0 | 459.0 |
| 45° | 419.3 | 417.7 | 417.7 | 416.1 | 416.1 | 416.1 | 416.1 | 414.4 |
| 47.5° | 376.4 | 374.8 | 374.8 | 374.8 | 373.1 | 373.1 | 371.5 | 373.1 |
| 50° | 335.1 | 335.1 | 333.5 | 333.5 | 335.1 | 333.5 | 331.9 | 331.9 |
| 52.5° | 297.2 | 297.2 | 295.5 | 295.5 | 293.9 | 292.2 | 293.9 | 293.9 |
| 55° | 262.6 | 260.9 | 259.3 | 259.3 | 257.5 | 255.9 | 255.9 | 257.5 |
| 57.5° | 229.5 | 227.8 | 226.2 | 226.2 | 222.9 | 221.3 | 221.3 | 221.3 |
| 60° | 198.2 | 194.8 | 194.8 | 193.1 | 193.1 | 191.5 | 191.5 | 191.5 |
| 62.5° | 168.4 | 166.8 | 166.8 | 166.8 | 166.8 | 165.1 | 165.1 | 165.1 |
| 65° | 143.6 | 143.6 | 143.6 | 145.3 | 145.3 | 146.9 | 146.9 | 146.9 |
| 67.5° | 123.8 | 125.5 | 125.5 | 125.5 | 127.1 | 127.1 | 127.1 | 125.5 |
| 70° | 105.7 | 105.7 | 105.7 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 |
| 72.5° | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 |
| 75° | 69.3 | 71.0 | 71.0 | 71.0 | 69.3 | 71.0 | 71.0 | 69.3 |
| 77.5° | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 |
| 80° | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 |
| 82.5° | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| 85° | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| 87.5° | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)