

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: P584351

Luminaire Tested: **HC830D010-HM82555935-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC830D010-HM82555935-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2672.3 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

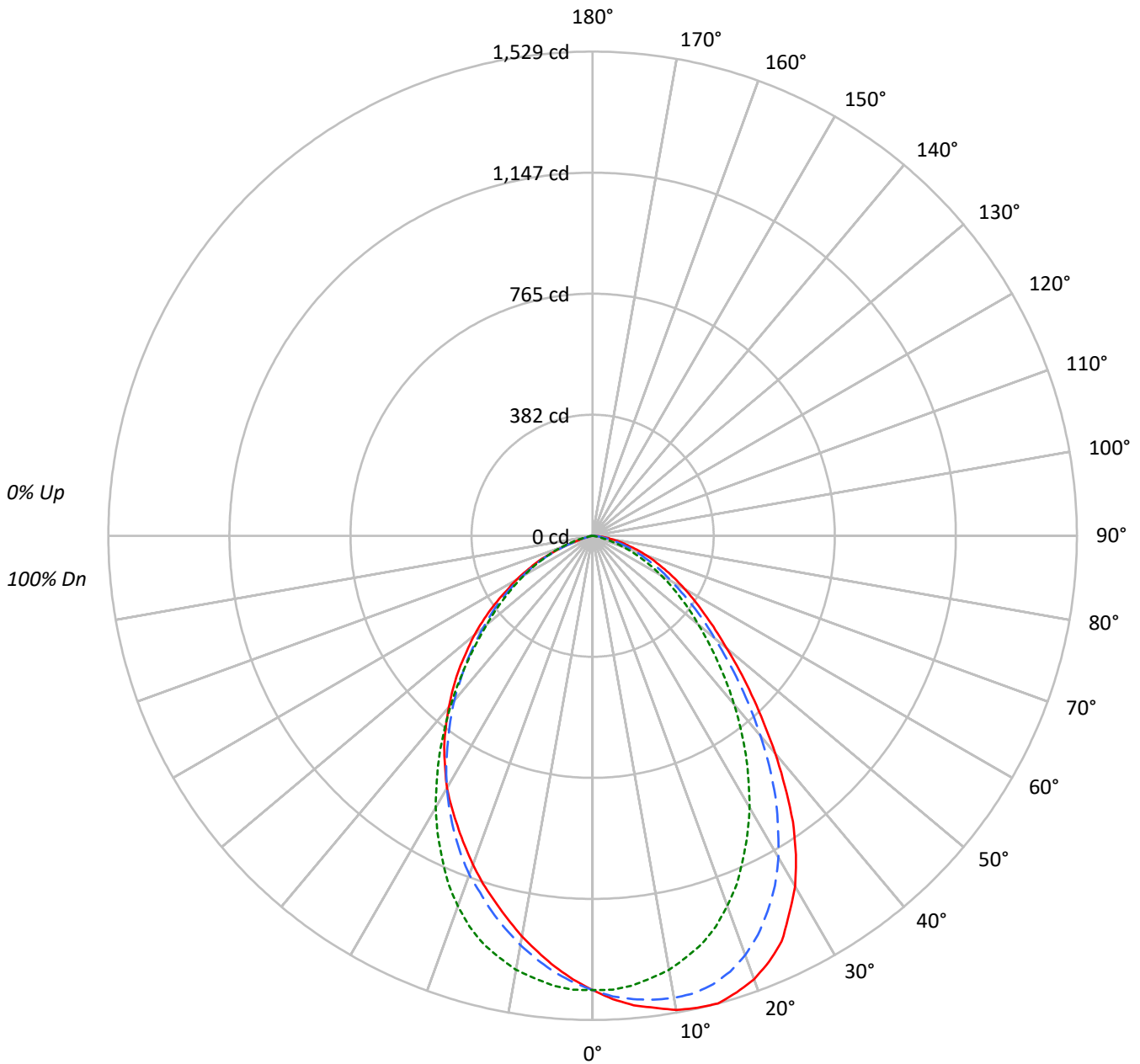
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584351

CATALOG NUMBER: HC830D010-HM82555935-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P584351

CATALOG NUMBER: HC830D010-HM82555935-81WWBB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | | | | | | | | | | | | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 5 | 82 | 70 | 63 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | | | | | | | | | | | | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 | | | | | | | | | | | | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | | | | | | | | | | | | | | | | | | |
| 9 | 62 | 50 | 43 | 37 | 61 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 10 | 59 | 47 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 44238 | 44238 | 44238 |
| 5° | 46069 | 44144 | 42283 |
| 10° | 47610 | 43577 | 40223 |
| 15° | 48815 | 42584 | 38133 |
| 20° | 48908 | 40816 | 36245 |
| 25° | 48083 | 38233 | 34368 |
| 30° | 45512 | 35279 | 32758 |
| 35° | 41495 | 31727 | 30759 |
| 40° | 36084 | 27972 | 28403 |
| 45° | 30954 | 24221 | 26000 |
| 50° | 26438 | 20883 | 23353 |
| 55° | 23171 | 17989 | 20290 |
| 60° | 20636 | 15338 | 17065 |
| 65° | 18307 | 12521 | 13615 |
| 70° | 16238 | 9286 | 7727 |
| 75° | 13546 | 4861 | 2299 |
| 80° | 10655 | 1527 | 373 |
| 85° | 7571 | 743 | 0 |



TEST NUMBER: P584351

CATALOG NUMBER: HC830D010-HM82555935-81WWBB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 135.2 | 5.1 |
| 10°-20° | 378.9 | 14.2 |
| 20°-30° | 536.3 | 20.1 |
| 30°-40° | 561.1 | 21.0 |
| 40°-50° | 468.0 | 17.5 |
| 50°-60° | 331.8 | 12.4 |
| 60°-70° | 191.1 | 7.2 |
| 70°-80° | 61.5 | 2.3 |
| 80°-90° | 8.4 | 0.3 |
| 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° | 1050.4 | 39.3 |
| 0°-40° | 1611.4 | 60.3 |
| 0°-60° | 2411.2 | 90.2 |
| 0°-90° | 2672.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2672.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1435 | 1435 | 1435 | 1435 | 1435 | |
| 5° | 1488 | 1469 | 1426 | 1383 | 1366 | 143 |
| 15° | 1529 | 1467 | 1334 | 1229 | 1194 | 430 |
| 25° | 1413 | 1308 | 1124 | 1034 | 1010 | 645 |
| 35° | 1102 | 1006 | 843 | 798 | 817 | 683 |
| 45° | 710 | 652 | 555 | 562 | 596 | 550 |
| 55° | 431 | 386 | 335 | 352 | 377 | 389 |
| 65° | 251 | 210 | 172 | 172 | 187 | 251 |
| 75° | 114 | 84 | 41 | 19 | 19 | 123 |
| 85° | 21 | 11 | 2 | 0 | 0 | 27 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P584351

CATALOG NUMBER: HC830D010-HM82555935-81WWBB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 |
| 2.5° | 1464.7 | 1462.6 | 1460.4 | 1462.6 | 1460.4 | 1462.6 | 1460.4 | 1460.4 | 1458.3 | 1456.2 | 1456.2 |
| 5° | 1488.3 | 1486.1 | 1486.1 | 1486.1 | 1484.0 | 1481.9 | 1481.9 | 1479.7 | 1475.4 | 1473.3 | 1469.0 |
| 7.5° | 1503.3 | 1505.4 | 1505.4 | 1505.4 | 1501.1 | 1501.1 | 1496.8 | 1492.6 | 1488.3 | 1484.0 | 1477.6 |
| 10° | 1520.5 | 1520.5 | 1518.4 | 1516.2 | 1511.9 | 1509.7 | 1507.5 | 1503.3 | 1496.8 | 1488.3 | 1481.9 |
| 12.5° | 1526.9 | 1526.9 | 1524.8 | 1520.5 | 1518.4 | 1516.2 | 1514.1 | 1507.5 | 1499.0 | 1488.3 | 1479.7 |
| 15° | 1529.1 | 1524.8 | 1522.6 | 1520.5 | 1516.2 | 1509.7 | 1509.7 | 1501.1 | 1490.4 | 1477.6 | 1466.9 |
| 17.5° | 1511.9 | 1514.1 | 1509.7 | 1505.4 | 1499.0 | 1494.7 | 1488.3 | 1481.9 | 1469.0 | 1454.0 | 1443.2 |
| 20° | 1490.4 | 1488.3 | 1486.1 | 1479.7 | 1471.1 | 1469.0 | 1462.6 | 1451.9 | 1441.1 | 1423.9 | 1409.0 |
| 22.5° | 1456.2 | 1454.0 | 1449.6 | 1445.3 | 1436.8 | 1432.5 | 1426.1 | 1413.2 | 1398.3 | 1381.0 | 1363.9 |
| 25° | 1413.2 | 1409.0 | 1402.5 | 1394.0 | 1387.4 | 1383.2 | 1374.6 | 1361.8 | 1344.6 | 1325.3 | 1308.1 |
| 27.5° | 1344.6 | 1351.1 | 1346.8 | 1333.9 | 1327.4 | 1318.8 | 1316.7 | 1299.6 | 1284.6 | 1265.2 | 1246.0 |
| 30° | 1278.2 | 1278.2 | 1271.6 | 1265.2 | 1254.5 | 1248.1 | 1239.5 | 1226.7 | 1211.6 | 1188.0 | 1173.1 |
| 32.5° | 1194.5 | 1192.3 | 1183.8 | 1181.6 | 1173.1 | 1160.2 | 1158.1 | 1140.8 | 1125.9 | 1108.7 | 1089.4 |
| 35° | 1102.3 | 1098.0 | 1089.4 | 1082.9 | 1078.7 | 1072.2 | 1065.8 | 1050.8 | 1035.7 | 1018.6 | 1005.8 |
| 37.5° | 997.2 | 997.2 | 995.1 | 984.4 | 980.1 | 975.7 | 969.3 | 954.3 | 945.7 | 928.6 | 915.6 |
| 40° | 896.4 | 894.2 | 887.8 | 885.7 | 881.4 | 875.0 | 870.7 | 862.1 | 849.2 | 836.3 | 823.5 |
| 42.5° | 797.7 | 800.0 | 791.3 | 793.4 | 784.9 | 780.6 | 778.4 | 765.6 | 759.2 | 746.3 | 735.5 |
| 45° | 709.8 | 707.7 | 703.4 | 701.3 | 697.0 | 692.7 | 688.4 | 682.0 | 671.2 | 658.3 | 651.9 |
| 47.5° | 628.4 | 622.0 | 622.0 | 619.7 | 617.6 | 609.0 | 606.9 | 600.4 | 594.0 | 581.2 | 572.6 |
| 50° | 551.1 | 551.1 | 551.1 | 549.0 | 542.5 | 540.4 | 536.1 | 529.7 | 523.3 | 514.7 | 501.8 |
| 52.5° | 488.9 | 488.9 | 488.9 | 486.8 | 478.2 | 476.1 | 473.9 | 465.4 | 456.8 | 450.4 | 441.7 |
| 55° | 431.0 | 433.2 | 431.0 | 426.7 | 420.3 | 420.3 | 413.9 | 409.6 | 401.0 | 394.6 | 386.1 |
| 57.5° | 381.7 | 381.7 | 377.4 | 375.2 | 371.0 | 368.8 | 364.5 | 360.3 | 349.6 | 343.1 | 332.4 |
| 60° | 334.6 | 332.4 | 332.4 | 328.2 | 323.8 | 319.5 | 317.3 | 310.9 | 306.6 | 295.9 | 287.4 |
| 62.5° | 291.7 | 291.7 | 287.4 | 287.4 | 278.8 | 278.8 | 276.7 | 270.3 | 263.7 | 253.0 | 248.7 |
| 65° | 250.9 | 250.9 | 248.7 | 246.6 | 240.2 | 238.0 | 235.9 | 229.5 | 223.1 | 216.6 | 210.2 |
| 67.5° | 214.5 | 214.5 | 210.2 | 208.1 | 203.7 | 201.5 | 197.3 | 193.0 | 186.6 | 180.1 | 173.7 |
| 70° | 180.1 | 178.0 | 175.9 | 173.7 | 169.4 | 167.3 | 163.0 | 158.7 | 152.3 | 147.9 | 141.5 |
| 72.5° | 145.8 | 145.8 | 143.6 | 139.4 | 137.2 | 135.1 | 132.9 | 128.6 | 122.2 | 115.8 | 111.5 |
| 75° | 113.7 | 113.7 | 113.7 | 109.4 | 105.1 | 103.0 | 103.0 | 98.7 | 94.4 | 87.9 | 83.6 |
| 77.5° | 87.9 | 85.7 | 83.6 | 83.6 | 79.3 | 77.2 | 75.0 | 72.9 | 66.5 | 64.3 | 60.0 |
| 80° | 60.0 | 62.2 | 60.0 | 57.9 | 55.8 | 53.6 | 53.6 | 49.3 | 47.2 | 42.9 | 38.6 |
| 82.5° | 40.8 | 38.6 | 38.6 | 36.5 | 36.5 | 34.4 | 34.4 | 30.1 | 27.8 | 25.7 | 23.5 |
| 85° | 21.4 | 21.4 | 19.3 | 19.3 | 19.3 | 17.1 | 17.1 | 15.0 | 15.0 | 12.8 | 10.7 |
| 87.5° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 4.3 | 4.3 | 4.3 |
| 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: P584351

CATALOG NUMBER: HC830D010-HM82555935-81WWBB

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 |
| 2.5° | 1454.0 | 1449.6 | 1447.5 | 1447.5 | 1445.3 | 1443.2 | 1441.1 | 1438.9 | 1434.6 | 1434.6 | 1430.4 |
| 5° | 1464.7 | 1460.4 | 1458.3 | 1451.9 | 1447.5 | 1447.5 | 1438.9 | 1436.8 | 1430.4 | 1426.1 | 1421.8 |
| 7.5° | 1473.3 | 1464.7 | 1458.3 | 1451.9 | 1447.5 | 1443.2 | 1434.6 | 1426.1 | 1417.5 | 1409.0 | 1404.7 |
| 10° | 1473.3 | 1464.7 | 1454.0 | 1443.2 | 1438.9 | 1434.6 | 1423.9 | 1411.1 | 1400.4 | 1391.7 | 1381.0 |
| 12.5° | 1469.0 | 1456.2 | 1443.2 | 1434.6 | 1426.1 | 1419.7 | 1406.8 | 1394.0 | 1381.0 | 1363.9 | 1355.3 |
| 15° | 1456.2 | 1438.9 | 1426.1 | 1411.1 | 1404.7 | 1394.0 | 1383.2 | 1363.9 | 1348.9 | 1333.9 | 1323.1 |
| 17.5° | 1430.4 | 1409.0 | 1394.0 | 1378.9 | 1368.2 | 1361.8 | 1344.6 | 1327.4 | 1310.3 | 1293.2 | 1280.3 |
| 20° | 1391.7 | 1372.5 | 1355.3 | 1336.1 | 1327.4 | 1318.8 | 1297.4 | 1280.3 | 1263.1 | 1243.8 | 1231.0 |
| 22.5° | 1344.6 | 1325.3 | 1301.7 | 1286.7 | 1273.9 | 1263.1 | 1243.8 | 1224.6 | 1207.3 | 1190.2 | 1173.1 |
| 25° | 1286.7 | 1267.4 | 1246.0 | 1222.4 | 1213.7 | 1203.0 | 1181.6 | 1162.4 | 1143.0 | 1123.7 | 1108.7 |
| 27.5° | 1224.6 | 1198.7 | 1181.6 | 1155.9 | 1147.3 | 1136.6 | 1113.0 | 1091.5 | 1074.4 | 1059.4 | 1042.3 |
| 30° | 1149.4 | 1130.1 | 1106.6 | 1082.9 | 1074.4 | 1063.7 | 1044.4 | 1025.0 | 1007.9 | 990.8 | 973.6 |
| 32.5° | 1068.0 | 1048.7 | 1025.0 | 1007.9 | 995.1 | 986.5 | 967.1 | 950.0 | 932.9 | 915.6 | 900.7 |
| 35° | 982.2 | 960.7 | 943.6 | 926.5 | 915.6 | 904.9 | 885.7 | 870.7 | 857.7 | 842.8 | 827.8 |
| 37.5° | 894.2 | 879.3 | 862.1 | 842.8 | 832.1 | 823.5 | 808.5 | 791.3 | 780.6 | 767.7 | 757.0 |
| 40° | 808.5 | 791.3 | 776.3 | 759.2 | 750.6 | 744.2 | 729.1 | 716.3 | 705.6 | 694.9 | 688.4 |
| 42.5° | 720.5 | 705.6 | 690.6 | 679.8 | 673.3 | 666.9 | 656.2 | 641.2 | 634.8 | 624.1 | 617.6 |
| 45° | 639.1 | 626.2 | 615.4 | 600.4 | 596.2 | 591.9 | 579.0 | 568.3 | 561.8 | 555.4 | 551.1 |
| 47.5° | 561.8 | 553.2 | 540.4 | 531.8 | 525.4 | 521.1 | 512.6 | 504.0 | 497.5 | 493.2 | 488.9 |
| 50° | 495.3 | 484.6 | 476.1 | 467.5 | 463.2 | 456.8 | 448.3 | 443.9 | 439.6 | 435.3 | 435.3 |
| 52.5° | 433.2 | 422.5 | 413.9 | 407.5 | 403.2 | 398.9 | 392.5 | 390.3 | 386.1 | 386.1 | 383.8 |
| 55° | 375.2 | 368.8 | 360.3 | 351.7 | 349.6 | 347.4 | 343.1 | 338.9 | 336.7 | 334.6 | 336.7 |
| 57.5° | 326.0 | 319.5 | 310.9 | 304.5 | 302.4 | 300.2 | 298.1 | 293.8 | 291.7 | 291.7 | 291.7 |
| 60° | 281.0 | 274.5 | 268.1 | 261.6 | 261.6 | 257.3 | 255.2 | 253.0 | 250.9 | 248.7 | 248.7 |
| 62.5° | 240.2 | 233.8 | 227.3 | 223.1 | 220.9 | 218.8 | 214.5 | 212.4 | 210.2 | 210.2 | 208.1 |
| 65° | 203.7 | 195.1 | 193.0 | 186.6 | 184.4 | 182.3 | 180.1 | 175.9 | 173.7 | 171.6 | 169.4 |
| 67.5° | 167.3 | 163.0 | 156.6 | 152.3 | 150.2 | 147.9 | 145.8 | 141.5 | 139.4 | 137.2 | 132.9 |
| 70° | 135.1 | 130.8 | 126.5 | 122.2 | 120.1 | 117.9 | 113.7 | 109.4 | 107.2 | 103.0 | 96.5 |
| 72.5° | 105.1 | 100.8 | 96.5 | 92.3 | 90.1 | 87.9 | 83.6 | 79.3 | 75.0 | 70.7 | 66.5 |
| 75° | 79.3 | 75.0 | 68.6 | 64.3 | 62.2 | 62.2 | 55.8 | 51.5 | 47.2 | 40.8 | 36.5 |
| 77.5° | 55.8 | 49.3 | 47.2 | 42.9 | 40.8 | 36.5 | 32.2 | 27.8 | 23.5 | 21.4 | 17.1 |
| 80° | 36.5 | 32.2 | 27.8 | 25.7 | 23.5 | 21.4 | 19.3 | 15.0 | 10.7 | 8.6 | 6.4 |
| 82.5° | 21.4 | 19.3 | 17.1 | 15.0 | 12.8 | 10.7 | 8.6 | 8.6 | 6.4 | 4.3 | 2.1 |
| 85° | 10.7 | 8.6 | 6.4 | 6.4 | 4.3 | 4.3 | 4.3 | 2.1 | 2.1 | 2.1 | 2.1 |
| 87.5° | 4.3 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P584351

CATALOG NUMBER: HC830D010-HM82555935-81WWBB

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 |
| 2.5° | 1428.2 | 1426.1 | 1423.9 | 1421.8 | 1421.8 | 1417.5 | 1417.5 | 1415.4 | 1411.1 | 1409.0 | 1409.0 |
| 5° | 1415.4 | 1409.0 | 1404.7 | 1402.5 | 1400.4 | 1394.0 | 1391.7 | 1387.4 | 1383.2 | 1378.9 | 1376.7 |
| 7.5° | 1396.1 | 1385.3 | 1381.0 | 1378.9 | 1372.5 | 1366.0 | 1361.8 | 1355.3 | 1348.9 | 1342.5 | 1340.4 |
| 10° | 1372.5 | 1361.8 | 1351.1 | 1346.8 | 1340.4 | 1336.1 | 1327.4 | 1318.8 | 1312.4 | 1306.0 | 1299.6 |
| 12.5° | 1342.5 | 1329.5 | 1318.8 | 1314.6 | 1308.1 | 1299.6 | 1286.7 | 1282.5 | 1271.6 | 1267.4 | 1258.8 |
| 15° | 1308.1 | 1293.2 | 1282.5 | 1276.0 | 1269.5 | 1256.7 | 1248.1 | 1239.5 | 1228.8 | 1224.6 | 1216.0 |
| 17.5° | 1265.2 | 1248.1 | 1237.4 | 1231.0 | 1226.7 | 1216.0 | 1203.0 | 1192.3 | 1181.6 | 1177.3 | 1170.9 |
| 20° | 1213.7 | 1203.0 | 1188.0 | 1181.6 | 1177.3 | 1164.5 | 1151.5 | 1147.3 | 1138.7 | 1130.1 | 1123.7 |
| 22.5° | 1155.9 | 1145.1 | 1130.1 | 1123.7 | 1121.6 | 1110.9 | 1100.2 | 1093.6 | 1087.2 | 1080.8 | 1074.4 |
| 25° | 1095.9 | 1082.9 | 1070.1 | 1065.8 | 1061.5 | 1053.0 | 1044.4 | 1040.1 | 1033.6 | 1029.3 | 1025.0 |
| 27.5° | 1031.5 | 1018.6 | 1007.9 | 1001.5 | 997.2 | 990.8 | 986.5 | 982.2 | 978.0 | 973.6 | 971.4 |
| 30° | 962.9 | 950.0 | 941.5 | 937.2 | 932.9 | 930.7 | 924.3 | 922.2 | 920.0 | 915.6 | 917.8 |
| 32.5° | 894.2 | 883.5 | 875.0 | 868.6 | 868.6 | 864.3 | 862.1 | 862.1 | 860.0 | 860.0 | 860.0 |
| 35° | 819.2 | 812.8 | 806.4 | 804.2 | 802.1 | 800.0 | 797.7 | 800.0 | 797.7 | 800.0 | 802.1 |
| 37.5° | 750.6 | 744.2 | 739.8 | 737.7 | 735.5 | 737.7 | 735.5 | 735.5 | 737.7 | 742.1 | 744.2 |
| 40° | 679.8 | 675.5 | 671.2 | 673.3 | 671.2 | 671.2 | 671.2 | 677.6 | 679.8 | 682.0 | 684.2 |
| 42.5° | 613.3 | 609.0 | 606.9 | 606.9 | 609.0 | 606.9 | 611.1 | 613.3 | 617.6 | 624.1 | 628.4 |
| 45° | 549.0 | 546.8 | 546.8 | 549.0 | 546.8 | 551.1 | 551.1 | 555.4 | 561.8 | 566.2 | 570.5 |
| 47.5° | 488.9 | 488.9 | 488.9 | 491.1 | 491.1 | 493.2 | 497.5 | 499.6 | 504.0 | 508.3 | 512.6 |
| 50° | 433.2 | 435.3 | 437.4 | 437.4 | 437.4 | 441.7 | 446.1 | 448.3 | 450.4 | 452.5 | 459.0 |
| 52.5° | 383.8 | 386.1 | 386.1 | 388.2 | 390.3 | 392.5 | 394.6 | 398.9 | 401.0 | 405.3 | 407.5 |
| 55° | 336.7 | 336.7 | 341.0 | 343.1 | 343.1 | 343.1 | 347.4 | 347.4 | 351.7 | 353.8 | 358.1 |
| 57.5° | 291.7 | 293.8 | 293.8 | 295.9 | 295.9 | 298.1 | 300.2 | 302.4 | 304.5 | 306.6 | 308.8 |
| 60° | 248.7 | 248.7 | 248.7 | 250.9 | 253.0 | 255.2 | 253.0 | 257.3 | 257.3 | 261.6 | 263.7 |
| 62.5° | 208.1 | 210.2 | 210.2 | 210.2 | 210.2 | 210.2 | 210.2 | 212.4 | 214.5 | 216.6 | 218.8 |
| 65° | 169.4 | 169.4 | 169.4 | 167.3 | 169.4 | 167.3 | 169.4 | 171.6 | 171.6 | 173.7 | 175.9 |
| 67.5° | 130.8 | 130.8 | 126.5 | 126.5 | 128.6 | 128.6 | 128.6 | 128.6 | 126.5 | 130.8 | 130.8 |
| 70° | 94.4 | 92.3 | 90.1 | 87.9 | 87.9 | 85.7 | 85.7 | 83.6 | 83.6 | 83.6 | 83.6 |
| 72.5° | 62.2 | 57.9 | 53.6 | 51.5 | 49.3 | 49.3 | 45.1 | 42.9 | 45.1 | 45.1 | 45.1 |
| 75° | 32.2 | 27.8 | 25.7 | 23.5 | 21.4 | 21.4 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 |
| 77.5° | 12.8 | 10.7 | 8.6 | 8.6 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| 80° | 4.3 | 4.3 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 82.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 85° | 2.1 | 0.0 | 0.0 | 2.1 | 0.0 | 2.1 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P584351

CATALOG NUMBER: HC830D010-HM82555935-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 | 1434.6 |
| 2.5° | 1406.8 | 1406.8 | 1404.7 | 1406.8 | 1402.5 | 1404.7 | 1402.5 | 1402.5 |
| 5° | 1374.6 | 1370.3 | 1370.3 | 1370.3 | 1368.2 | 1368.2 | 1366.0 | 1366.0 |
| 7.5° | 1336.1 | 1333.9 | 1331.7 | 1329.5 | 1327.4 | 1325.3 | 1325.3 | 1325.3 |
| 10° | 1297.4 | 1293.2 | 1293.2 | 1291.0 | 1286.7 | 1284.6 | 1284.6 | 1284.6 |
| 12.5° | 1252.4 | 1250.2 | 1248.1 | 1248.1 | 1239.5 | 1241.7 | 1239.5 | 1239.5 |
| 15° | 1209.5 | 1207.3 | 1207.3 | 1200.9 | 1196.6 | 1196.6 | 1196.6 | 1194.5 |
| 17.5° | 1164.5 | 1162.4 | 1160.2 | 1155.9 | 1151.5 | 1151.5 | 1149.4 | 1151.5 |
| 20° | 1117.3 | 1115.2 | 1110.9 | 1110.9 | 1108.7 | 1106.6 | 1102.3 | 1104.5 |
| 22.5° | 1070.1 | 1065.8 | 1063.7 | 1063.7 | 1061.5 | 1061.5 | 1057.3 | 1057.3 |
| 25° | 1020.8 | 1018.6 | 1016.5 | 1018.6 | 1014.3 | 1014.3 | 1010.1 | 1010.1 |
| 27.5° | 969.3 | 967.1 | 967.1 | 967.1 | 965.0 | 967.1 | 965.0 | 965.0 |
| 30° | 917.8 | 917.8 | 915.6 | 915.6 | 917.8 | 915.6 | 917.8 | 920.0 |
| 32.5° | 862.1 | 862.1 | 864.3 | 864.3 | 866.4 | 866.4 | 866.4 | 866.4 |
| 35° | 804.2 | 808.5 | 808.5 | 810.7 | 812.8 | 814.9 | 814.9 | 817.1 |
| 37.5° | 750.6 | 752.8 | 754.9 | 757.0 | 761.3 | 761.3 | 761.3 | 761.3 |
| 40° | 692.7 | 694.9 | 699.1 | 697.0 | 705.6 | 707.7 | 705.6 | 705.6 |
| 42.5° | 632.7 | 636.9 | 639.1 | 643.4 | 645.5 | 649.8 | 651.9 | 651.9 |
| 45° | 576.9 | 579.0 | 583.3 | 587.6 | 589.7 | 596.2 | 596.2 | 596.2 |
| 47.5° | 519.0 | 523.3 | 525.4 | 529.7 | 531.8 | 538.3 | 540.4 | 538.3 |
| 50° | 463.2 | 467.5 | 471.8 | 471.8 | 478.2 | 480.4 | 484.6 | 486.8 |
| 52.5° | 409.6 | 411.8 | 416.0 | 418.2 | 422.5 | 426.7 | 428.9 | 431.0 |
| 55° | 358.1 | 360.3 | 364.5 | 364.5 | 371.0 | 373.1 | 377.4 | 377.4 |
| 57.5° | 310.9 | 313.1 | 317.3 | 315.2 | 319.5 | 323.8 | 323.8 | 321.6 |
| 60° | 265.9 | 265.9 | 265.9 | 270.3 | 272.4 | 274.5 | 276.7 | 276.7 |
| 62.5° | 218.8 | 223.1 | 225.2 | 225.2 | 227.3 | 229.5 | 229.5 | 227.3 |
| 65° | 175.9 | 180.1 | 182.3 | 182.3 | 184.4 | 184.4 | 184.4 | 186.6 |
| 67.5° | 132.9 | 132.9 | 132.9 | 135.1 | 132.9 | 132.9 | 132.9 | 132.9 |
| 70° | 83.6 | 83.6 | 83.6 | 83.6 | 81.4 | 83.6 | 83.6 | 85.7 |
| 72.5° | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 |
| 75° | 19.3 | 19.3 | 19.3 | 21.4 | 19.3 | 19.3 | 19.3 | 19.3 |
| 77.5° | 8.6 | 6.4 | 8.6 | 8.6 | 6.4 | 6.4 | 6.4 | 6.4 |
| 80° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 82.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 85° | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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













(END OF REPORT)