

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: P584691

Luminaire Tested: **HC845D010-HM82555835-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584691
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: HC845D010-HM82555835-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4247.5 lumens
Efficiency: N/A
Efficacy: 96.5 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

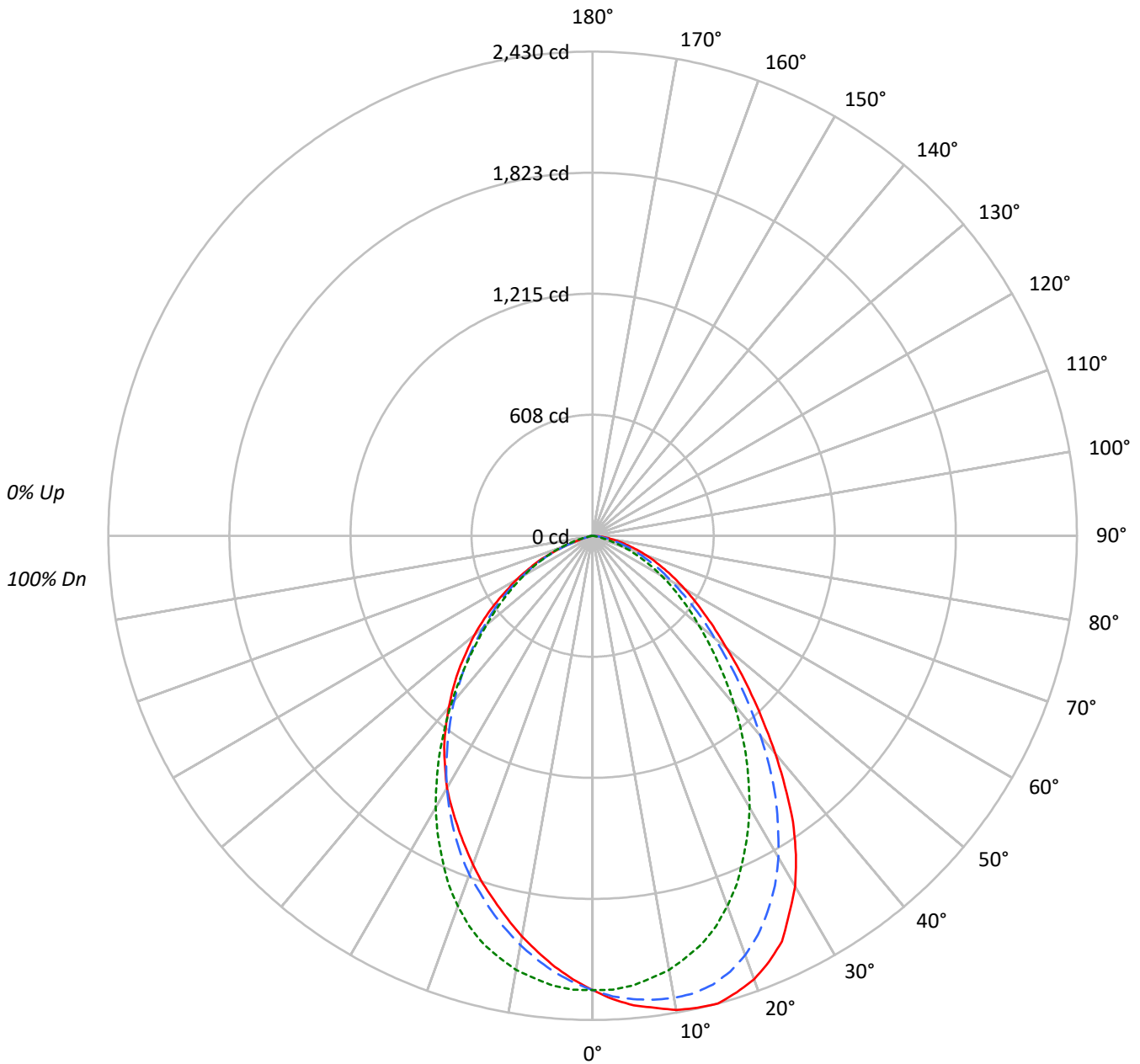
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584691

CATALOG NUMBER: HC845D010-HM82555835-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P584691

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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 | 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° | 70316 | 70316 | 70316 |
| 5° | 73222 | 70164 | 67208 |
| 10° | 75669 | 69268 | 63930 |
| 15° | 77582 | 67682 | 60608 |
| 20° | 77736 | 64876 | 57604 |
| 25° | 76425 | 60767 | 54622 |
| 30° | 72335 | 56073 | 52068 |
| 35° | 65953 | 50428 | 48885 |
| 40° | 57350 | 44456 | 45141 |
| 45° | 49200 | 38498 | 41320 |
| 50° | 42024 | 33197 | 37117 |
| 55° | 36832 | 28585 | 32252 |
| 60° | 32791 | 24385 | 27111 |
| 65° | 29098 | 19898 | 21634 |
| 70° | 25813 | 14750 | 12289 |
| 75° | 21517 | 7709 | 3658 |
| 80° | 16959 | 2415 | 604 |
| 85° | 12065 | 1203 | 0 |



TEST NUMBER: P584691

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 214.9 | 5.1 |
| 10°-20° | 602.2 | 14.2 |
| 20°-30° | 852.4 | 20.1 |
| 30°-40° | 891.8 | 21.0 |
| 40°-50° | 743.8 | 17.5 |
| 50°-60° | 527.4 | 12.4 |
| 60°-70° | 303.8 | 7.2 |
| 70°-80° | 97.8 | 2.3 |
| 80°-90° | 13.4 | 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° | 1669.5 | 39.3 |
| 0°-40° | 2561.2 | 60.3 |
| 0°-60° | 3832.5 | 90.2 |
| 0°-90° | 4247.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4247.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2280 | 2280 | 2280 | 2280 | 2280 | |
| 5° | 2366 | 2335 | 2267 | 2198 | 2171 | 227 |
| 15° | 2430 | 2332 | 2120 | 1953 | 1898 | 683 |
| 25° | 2246 | 2079 | 1786 | 1643 | 1605 | 1025 |
| 35° | 1752 | 1599 | 1340 | 1268 | 1299 | 1086 |
| 45° | 1128 | 1036 | 883 | 893 | 948 | 874 |
| 55° | 685 | 614 | 532 | 559 | 600 | 619 |
| 65° | 399 | 334 | 273 | 273 | 296 | 399 |
| 75° | 181 | 133 | 65 | 31 | 31 | 196 |
| 85° | 34 | 17 | 3 | 0 | 0 | 43 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 |
| 2.5° | 2328.1 | 2324.7 | 2321.2 | 2324.7 | 2321.2 | 2324.7 | 2321.2 | 2321.2 | 2317.7 | 2314.3 | 2314.3 |
| 5° | 2365.5 | 2362.1 | 2362.1 | 2362.1 | 2358.7 | 2355.3 | 2355.3 | 2351.9 | 2345.1 | 2341.7 | 2334.9 |
| 7.5° | 2389.4 | 2392.8 | 2392.8 | 2392.8 | 2386.0 | 2386.0 | 2379.2 | 2372.3 | 2365.5 | 2358.7 | 2348.5 |
| 10° | 2416.6 | 2416.6 | 2413.2 | 2409.8 | 2403.0 | 2399.6 | 2396.2 | 2389.4 | 2379.2 | 2365.5 | 2355.3 |
| 12.5° | 2426.8 | 2426.8 | 2423.4 | 2416.6 | 2413.2 | 2409.8 | 2406.4 | 2396.2 | 2382.6 | 2365.5 | 2351.9 |
| 15° | 2430.2 | 2423.4 | 2420.0 | 2416.6 | 2409.8 | 2399.6 | 2399.6 | 2386.0 | 2368.9 | 2348.5 | 2331.5 |
| 17.5° | 2403.0 | 2406.4 | 2399.6 | 2392.8 | 2382.6 | 2375.7 | 2365.5 | 2355.3 | 2334.9 | 2310.9 | 2293.9 |
| 20° | 2368.9 | 2365.5 | 2362.1 | 2351.9 | 2338.3 | 2334.9 | 2324.7 | 2307.5 | 2290.5 | 2263.3 | 2239.4 |
| 22.5° | 2314.3 | 2310.9 | 2304.1 | 2297.3 | 2283.7 | 2276.9 | 2266.7 | 2246.2 | 2222.4 | 2195.0 | 2167.8 |
| 25° | 2246.2 | 2239.4 | 2229.2 | 2215.6 | 2205.4 | 2198.4 | 2184.8 | 2164.4 | 2137.1 | 2106.5 | 2079.1 |
| 27.5° | 2137.1 | 2147.4 | 2140.5 | 2120.1 | 2109.9 | 2096.3 | 2092.9 | 2065.5 | 2041.7 | 2011.0 | 1980.4 |
| 30° | 2031.5 | 2031.5 | 2021.2 | 2011.0 | 1994.0 | 1983.8 | 1970.2 | 1949.6 | 1925.8 | 1888.3 | 1864.5 |
| 32.5° | 1898.5 | 1895.1 | 1881.5 | 1878.1 | 1864.5 | 1844.0 | 1840.6 | 1813.3 | 1789.4 | 1762.2 | 1731.5 |
| 35° | 1752.0 | 1745.2 | 1731.5 | 1721.3 | 1714.5 | 1704.3 | 1694.0 | 1670.1 | 1646.3 | 1619.1 | 1598.6 |
| 37.5° | 1585.0 | 1585.0 | 1581.6 | 1564.5 | 1557.7 | 1550.8 | 1540.6 | 1516.8 | 1503.2 | 1475.9 | 1455.5 |
| 40° | 1424.7 | 1421.3 | 1411.1 | 1407.7 | 1400.9 | 1390.7 | 1383.9 | 1370.2 | 1349.8 | 1329.4 | 1308.8 |
| 42.5° | 1268.0 | 1271.4 | 1257.7 | 1261.1 | 1247.5 | 1240.7 | 1237.3 | 1216.9 | 1206.7 | 1186.1 | 1169.1 |
| 45° | 1128.2 | 1124.8 | 1118.0 | 1114.6 | 1107.8 | 1101.0 | 1094.2 | 1083.9 | 1066.8 | 1046.4 | 1036.2 |
| 47.5° | 998.7 | 988.5 | 988.5 | 985.1 | 981.7 | 968.0 | 964.6 | 954.4 | 944.1 | 923.7 | 910.0 |
| 50° | 876.0 | 876.0 | 876.0 | 872.6 | 862.4 | 859.0 | 852.2 | 841.9 | 831.7 | 818.1 | 797.6 |
| 52.5° | 777.1 | 777.1 | 777.1 | 773.7 | 760.1 | 756.7 | 753.3 | 739.7 | 726.0 | 715.8 | 702.2 |
| 55° | 685.1 | 688.6 | 685.1 | 678.3 | 668.0 | 668.0 | 657.8 | 651.0 | 637.4 | 627.2 | 613.5 |
| 57.5° | 606.7 | 606.7 | 599.9 | 596.5 | 589.7 | 586.3 | 579.5 | 572.7 | 555.5 | 545.3 | 528.3 |
| 60° | 531.7 | 528.3 | 528.3 | 521.5 | 514.7 | 507.9 | 504.5 | 494.2 | 487.4 | 470.4 | 456.8 |
| 62.5° | 463.6 | 463.6 | 456.8 | 456.8 | 443.2 | 443.2 | 439.6 | 429.4 | 419.2 | 402.2 | 395.4 |
| 65° | 398.8 | 398.8 | 395.4 | 392.0 | 381.8 | 378.3 | 374.9 | 364.7 | 354.5 | 344.3 | 334.1 |
| 67.5° | 340.9 | 340.9 | 334.1 | 330.7 | 323.9 | 320.3 | 313.5 | 306.7 | 296.5 | 286.3 | 276.1 |
| 70° | 286.3 | 282.9 | 279.5 | 276.1 | 269.3 | 265.9 | 259.0 | 252.2 | 242.0 | 235.2 | 225.0 |
| 72.5° | 231.8 | 231.8 | 228.4 | 221.6 | 218.2 | 214.8 | 211.4 | 204.5 | 194.2 | 184.0 | 177.2 |
| 75° | 180.6 | 180.6 | 180.6 | 173.8 | 167.0 | 163.6 | 163.6 | 156.8 | 150.0 | 139.7 | 132.9 |
| 77.5° | 139.7 | 136.3 | 132.9 | 132.9 | 126.1 | 122.7 | 119.3 | 115.9 | 105.7 | 102.3 | 95.5 |
| 80° | 95.5 | 98.9 | 95.5 | 92.1 | 88.7 | 85.2 | 85.2 | 78.4 | 75.0 | 68.2 | 61.3 |
| 82.5° | 64.7 | 61.3 | 61.3 | 57.9 | 57.9 | 54.5 | 54.5 | 47.7 | 44.3 | 40.9 | 37.5 |
| 85° | 34.1 | 34.1 | 30.7 | 30.7 | 30.7 | 27.2 | 27.2 | 23.8 | 23.8 | 20.4 | 17.0 |
| 87.5° | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 6.8 | 6.8 | 6.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 |
| 2.5° | 2310.9 | 2304.1 | 2300.7 | 2300.7 | 2297.3 | 2293.9 | 2290.5 | 2287.1 | 2280.3 | 2280.3 | 2273.5 |
| 5° | 2328.1 | 2321.2 | 2317.7 | 2307.5 | 2300.7 | 2300.7 | 2287.1 | 2283.7 | 2273.5 | 2266.7 | 2259.8 |
| 7.5° | 2341.7 | 2328.1 | 2317.7 | 2307.5 | 2300.7 | 2293.9 | 2280.3 | 2266.7 | 2253.0 | 2239.4 | 2232.6 |
| 10° | 2341.7 | 2328.1 | 2310.9 | 2293.9 | 2287.1 | 2280.3 | 2263.3 | 2242.8 | 2225.8 | 2212.2 | 2195.0 |
| 12.5° | 2334.9 | 2314.3 | 2293.9 | 2280.3 | 2266.7 | 2256.4 | 2236.0 | 2215.6 | 2195.0 | 2167.8 | 2154.2 |
| 15° | 2314.3 | 2287.1 | 2266.7 | 2242.8 | 2232.6 | 2215.6 | 2198.4 | 2167.8 | 2144.0 | 2120.1 | 2103.1 |
| 17.5° | 2273.5 | 2239.4 | 2215.6 | 2191.6 | 2174.6 | 2164.4 | 2137.1 | 2109.9 | 2082.5 | 2055.3 | 2034.9 |
| 20° | 2212.2 | 2181.4 | 2154.2 | 2123.5 | 2109.9 | 2096.3 | 2062.1 | 2034.9 | 2007.6 | 1977.0 | 1956.4 |
| 22.5° | 2137.1 | 2106.5 | 2068.9 | 2045.1 | 2024.6 | 2007.6 | 1977.0 | 1946.2 | 1919.0 | 1891.7 | 1864.5 |
| 25° | 2045.1 | 2014.4 | 1980.4 | 1942.8 | 1929.2 | 1912.2 | 1878.1 | 1847.4 | 1816.7 | 1786.0 | 1762.2 |
| 27.5° | 1946.2 | 1905.3 | 1878.1 | 1837.2 | 1823.5 | 1806.5 | 1769.0 | 1735.0 | 1707.7 | 1683.8 | 1656.5 |
| 30° | 1826.9 | 1796.3 | 1758.8 | 1721.3 | 1707.7 | 1690.6 | 1659.9 | 1629.3 | 1602.0 | 1574.8 | 1547.4 |
| 32.5° | 1697.4 | 1666.7 | 1629.3 | 1602.0 | 1581.6 | 1567.9 | 1537.2 | 1510.0 | 1482.7 | 1455.5 | 1431.5 |
| 35° | 1561.1 | 1527.0 | 1499.8 | 1472.5 | 1455.5 | 1438.3 | 1407.7 | 1383.9 | 1363.4 | 1339.6 | 1315.6 |
| 37.5° | 1421.3 | 1397.5 | 1370.2 | 1339.6 | 1322.6 | 1308.8 | 1285.0 | 1257.7 | 1240.7 | 1220.3 | 1203.1 |
| 40° | 1285.0 | 1257.7 | 1233.9 | 1206.7 | 1192.9 | 1182.7 | 1158.9 | 1138.4 | 1121.4 | 1104.4 | 1094.2 |
| 42.5° | 1145.3 | 1121.4 | 1097.6 | 1080.5 | 1070.2 | 1060.0 | 1043.0 | 1019.1 | 1008.9 | 991.9 | 981.7 |
| 45° | 1015.7 | 995.3 | 978.3 | 954.4 | 947.5 | 940.7 | 920.3 | 903.2 | 893.0 | 882.8 | 876.0 |
| 47.5° | 893.0 | 879.4 | 859.0 | 845.3 | 835.1 | 828.3 | 814.6 | 801.0 | 790.7 | 783.9 | 777.1 |
| 50° | 787.3 | 770.3 | 756.7 | 743.1 | 736.3 | 726.0 | 712.4 | 705.6 | 698.8 | 692.0 | 692.0 |
| 52.5° | 688.6 | 671.4 | 657.8 | 647.6 | 640.8 | 634.0 | 623.8 | 620.4 | 613.5 | 613.5 | 610.1 |
| 55° | 596.5 | 586.3 | 572.7 | 559.1 | 555.5 | 552.1 | 545.3 | 538.5 | 535.1 | 531.7 | 535.1 |
| 57.5° | 518.1 | 507.9 | 494.2 | 484.0 | 480.6 | 477.2 | 473.8 | 467.0 | 463.6 | 463.6 | 463.6 |
| 60° | 446.6 | 436.2 | 426.0 | 415.8 | 415.8 | 409.0 | 405.6 | 402.2 | 398.8 | 395.4 | 395.4 |
| 62.5° | 381.8 | 371.5 | 361.3 | 354.5 | 351.1 | 347.7 | 340.9 | 337.5 | 334.1 | 334.1 | 330.7 |
| 65° | 323.9 | 310.1 | 306.7 | 296.5 | 293.1 | 289.7 | 286.3 | 279.5 | 276.1 | 272.7 | 269.3 |
| 67.5° | 265.9 | 259.0 | 248.8 | 242.0 | 238.6 | 235.2 | 231.8 | 225.0 | 221.6 | 218.2 | 211.4 |
| 70° | 214.8 | 208.0 | 201.1 | 194.2 | 190.8 | 187.4 | 180.6 | 173.8 | 170.4 | 163.6 | 153.4 |
| 72.5° | 167.0 | 160.2 | 153.4 | 146.5 | 143.1 | 139.7 | 132.9 | 126.1 | 119.3 | 112.5 | 105.7 |
| 75° | 126.1 | 119.3 | 109.1 | 102.3 | 98.9 | 98.9 | 88.7 | 81.8 | 75.0 | 64.7 | 57.9 |
| 77.5° | 88.7 | 78.4 | 75.0 | 68.2 | 64.7 | 57.9 | 51.1 | 44.3 | 37.5 | 34.1 | 27.2 |
| 80° | 57.9 | 51.1 | 44.3 | 40.9 | 37.5 | 34.1 | 30.7 | 23.8 | 17.0 | 13.6 | 10.2 |
| 82.5° | 34.1 | 30.7 | 27.2 | 23.8 | 20.4 | 17.0 | 13.6 | 13.6 | 10.2 | 6.8 | 3.4 |
| 85° | 17.0 | 13.6 | 10.2 | 10.2 | 6.8 | 6.8 | 6.8 | 3.4 | 3.4 | 3.4 | 3.4 |
| 87.5° | 6.8 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 |
| 2.5° | 2270.1 | 2266.7 | 2263.3 | 2259.8 | 2259.8 | 2253.0 | 2253.0 | 2249.6 | 2242.8 | 2239.4 | 2239.4 |
| 5° | 2249.6 | 2239.4 | 2232.6 | 2229.2 | 2225.8 | 2215.6 | 2212.2 | 2205.4 | 2198.4 | 2191.6 | 2188.2 |
| 7.5° | 2219.0 | 2201.8 | 2195.0 | 2191.6 | 2181.4 | 2171.2 | 2164.4 | 2154.2 | 2144.0 | 2133.7 | 2130.3 |
| 10° | 2181.4 | 2164.4 | 2147.4 | 2140.5 | 2130.3 | 2123.5 | 2109.9 | 2096.3 | 2086.1 | 2075.7 | 2065.5 |
| 12.5° | 2133.7 | 2113.3 | 2096.3 | 2089.5 | 2079.1 | 2065.5 | 2045.1 | 2038.3 | 2021.2 | 2014.4 | 2000.8 |
| 15° | 2079.1 | 2055.3 | 2038.3 | 2028.1 | 2017.8 | 1997.4 | 1983.8 | 1970.2 | 1953.0 | 1946.2 | 1932.6 |
| 17.5° | 2011.0 | 1983.8 | 1966.7 | 1956.4 | 1949.6 | 1932.6 | 1912.2 | 1895.1 | 1878.1 | 1871.3 | 1861.1 |
| 20° | 1929.2 | 1912.2 | 1888.3 | 1878.1 | 1871.3 | 1850.9 | 1830.3 | 1823.5 | 1809.9 | 1796.3 | 1786.0 |
| 22.5° | 1837.2 | 1820.1 | 1796.3 | 1786.0 | 1782.6 | 1765.6 | 1748.6 | 1738.4 | 1728.1 | 1717.9 | 1707.7 |
| 25° | 1741.8 | 1721.3 | 1700.8 | 1694.0 | 1687.2 | 1673.6 | 1659.9 | 1653.1 | 1642.9 | 1636.1 | 1629.3 |
| 27.5° | 1639.5 | 1619.1 | 1602.0 | 1591.8 | 1585.0 | 1574.8 | 1567.9 | 1561.1 | 1554.2 | 1547.4 | 1544.0 |
| 30° | 1530.4 | 1510.0 | 1496.3 | 1489.5 | 1482.7 | 1479.3 | 1469.1 | 1465.7 | 1462.3 | 1455.5 | 1458.9 |
| 32.5° | 1421.3 | 1404.3 | 1390.7 | 1380.5 | 1380.5 | 1373.6 | 1370.2 | 1370.2 | 1366.8 | 1366.8 | 1366.8 |
| 35° | 1302.0 | 1291.8 | 1281.6 | 1278.2 | 1274.8 | 1271.4 | 1268.0 | 1271.4 | 1268.0 | 1271.4 | 1274.8 |
| 37.5° | 1192.9 | 1182.7 | 1175.9 | 1172.5 | 1169.1 | 1172.5 | 1169.1 | 1169.1 | 1172.5 | 1179.3 | 1182.7 |
| 40° | 1080.5 | 1073.6 | 1066.8 | 1070.2 | 1066.8 | 1066.8 | 1066.8 | 1077.0 | 1080.5 | 1083.9 | 1087.4 |
| 42.5° | 974.9 | 968.0 | 964.6 | 964.6 | 968.0 | 964.6 | 971.5 | 974.9 | 981.7 | 991.9 | 998.7 |
| 45° | 872.6 | 869.2 | 869.2 | 872.6 | 869.2 | 876.0 | 876.0 | 882.8 | 893.0 | 899.8 | 906.6 |
| 47.5° | 777.1 | 777.1 | 777.1 | 780.5 | 780.5 | 783.9 | 790.7 | 794.2 | 801.0 | 807.8 | 814.6 |
| 50° | 688.6 | 692.0 | 695.4 | 695.4 | 695.4 | 702.2 | 709.0 | 712.4 | 715.8 | 719.2 | 729.4 |
| 52.5° | 610.1 | 613.5 | 613.5 | 617.0 | 620.4 | 623.8 | 627.2 | 634.0 | 637.4 | 644.2 | 647.6 |
| 55° | 535.1 | 535.1 | 541.9 | 545.3 | 545.3 | 545.3 | 552.1 | 552.1 | 559.1 | 562.5 | 569.3 |
| 57.5° | 463.6 | 467.0 | 467.0 | 470.4 | 470.4 | 473.8 | 477.2 | 480.6 | 484.0 | 487.4 | 490.8 |
| 60° | 395.4 | 395.4 | 395.4 | 398.8 | 402.2 | 405.6 | 402.2 | 409.0 | 409.0 | 415.8 | 419.2 |
| 62.5° | 330.7 | 334.1 | 334.1 | 334.1 | 334.1 | 334.1 | 334.1 | 337.5 | 340.9 | 344.3 | 347.7 |
| 65° | 269.3 | 269.3 | 269.3 | 265.9 | 269.3 | 265.9 | 269.3 | 272.7 | 272.7 | 276.1 | 279.5 |
| 67.5° | 208.0 | 208.0 | 201.1 | 201.1 | 204.5 | 204.5 | 204.5 | 204.5 | 201.1 | 208.0 | 208.0 |
| 70° | 150.0 | 146.5 | 143.1 | 139.7 | 139.7 | 136.3 | 136.3 | 132.9 | 132.9 | 132.9 | 132.9 |
| 72.5° | 98.9 | 92.1 | 85.2 | 81.8 | 78.4 | 78.4 | 71.6 | 68.2 | 71.6 | 71.6 | 71.6 |
| 75° | 51.1 | 44.3 | 40.9 | 37.5 | 34.1 | 34.1 | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 |
| 77.5° | 20.4 | 17.0 | 13.6 | 13.6 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| 80° | 6.8 | 6.8 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 82.5° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 85° | 3.4 | 0.0 | 0.0 | 3.4 | 0.0 | 3.4 | 3.4 | 3.4 | 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: P584691

CATALOG NUMBER: HC845D010-HM82555835-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 | 2280.3 |
| 2.5° | 2236.0 | 2236.0 | 2232.6 | 2236.0 | 2229.2 | 2232.6 | 2229.2 | 2229.2 |
| 5° | 2184.8 | 2178.0 | 2178.0 | 2178.0 | 2174.6 | 2174.6 | 2171.2 | 2171.2 |
| 7.5° | 2123.5 | 2120.1 | 2116.7 | 2113.3 | 2109.9 | 2106.5 | 2106.5 | 2106.5 |
| 10° | 2062.1 | 2055.3 | 2055.3 | 2051.9 | 2045.1 | 2041.7 | 2041.7 | 2041.7 |
| 12.5° | 1990.6 | 1987.2 | 1983.8 | 1983.8 | 1970.2 | 1973.6 | 1970.2 | 1970.2 |
| 15° | 1922.4 | 1919.0 | 1919.0 | 1908.8 | 1901.9 | 1901.9 | 1901.9 | 1898.5 |
| 17.5° | 1850.9 | 1847.4 | 1844.0 | 1837.2 | 1830.3 | 1830.3 | 1826.9 | 1830.3 |
| 20° | 1775.8 | 1772.4 | 1765.6 | 1765.6 | 1762.2 | 1758.8 | 1752.0 | 1755.4 |
| 22.5° | 1700.8 | 1694.0 | 1690.6 | 1690.6 | 1687.2 | 1687.2 | 1680.4 | 1680.4 |
| 25° | 1622.5 | 1619.1 | 1615.7 | 1619.1 | 1612.2 | 1612.2 | 1605.4 | 1605.4 |
| 27.5° | 1540.6 | 1537.2 | 1537.2 | 1537.2 | 1533.8 | 1537.2 | 1533.8 | 1533.8 |
| 30° | 1458.9 | 1458.9 | 1455.5 | 1455.5 | 1458.9 | 1455.5 | 1458.9 | 1462.3 |
| 32.5° | 1370.2 | 1370.2 | 1373.6 | 1373.6 | 1377.0 | 1377.0 | 1377.0 | 1377.0 |
| 35° | 1278.2 | 1285.0 | 1285.0 | 1288.4 | 1291.8 | 1295.2 | 1295.2 | 1298.6 |
| 37.5° | 1192.9 | 1196.3 | 1199.7 | 1203.1 | 1210.1 | 1210.1 | 1210.1 | 1210.1 |
| 40° | 1101.0 | 1104.4 | 1111.2 | 1107.8 | 1121.4 | 1124.8 | 1121.4 | 1121.4 |
| 42.5° | 1005.5 | 1012.3 | 1015.7 | 1022.5 | 1025.9 | 1032.8 | 1036.2 | 1036.2 |
| 45° | 916.9 | 920.3 | 927.1 | 933.9 | 937.3 | 947.5 | 947.5 | 947.5 |
| 47.5° | 824.9 | 831.7 | 835.1 | 841.9 | 845.3 | 855.6 | 859.0 | 855.6 |
| 50° | 736.3 | 743.1 | 749.9 | 749.9 | 760.1 | 763.5 | 770.3 | 773.7 |
| 52.5° | 651.0 | 654.4 | 661.2 | 664.6 | 671.4 | 678.3 | 681.7 | 685.1 |
| 55° | 569.3 | 572.7 | 579.5 | 579.5 | 589.7 | 593.1 | 599.9 | 599.9 |
| 57.5° | 494.2 | 497.6 | 504.5 | 501.1 | 507.9 | 514.7 | 514.7 | 511.3 |
| 60° | 422.6 | 422.6 | 422.6 | 429.4 | 432.8 | 436.2 | 439.6 | 439.6 |
| 62.5° | 347.7 | 354.5 | 357.9 | 357.9 | 361.3 | 364.7 | 364.7 | 361.3 |
| 65° | 279.5 | 286.3 | 289.7 | 289.7 | 293.1 | 293.1 | 293.1 | 296.5 |
| 67.5° | 211.4 | 211.4 | 211.4 | 214.8 | 211.4 | 211.4 | 211.4 | 211.4 |
| 70° | 132.9 | 132.9 | 132.9 | 132.9 | 129.5 | 132.9 | 132.9 | 136.3 |
| 72.5° | 71.6 | 71.6 | 71.6 | 71.6 | 71.6 | 71.6 | 71.6 | 71.6 |
| 75° | 30.7 | 30.7 | 30.7 | 34.1 | 30.7 | 30.7 | 30.7 | 30.7 |
| 77.5° | 13.6 | 10.2 | 13.6 | 13.6 | 10.2 | 10.2 | 10.2 | 10.2 |
| 80° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 82.5° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 85° | 0.0 | 3.4 | 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 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





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













(END OF REPORT)