

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

Report Number: P130191

Luminaire Tested: **HL612ICAT - HLM6935 - HL6FL - 73PS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33459)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HL612ICAT - HLM6935 - HL6FL - 73PS
Description: HALO ALLSLOPE 6" 21W, Fresnel Glass Lens, White Polymer Trim Ring
"Dead Front", Wet Location - Showerlight using 40 Degree Optic at a 6-12
Pitch
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1225.8 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 0.8 / 1.07
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')
CIE Type: Direct

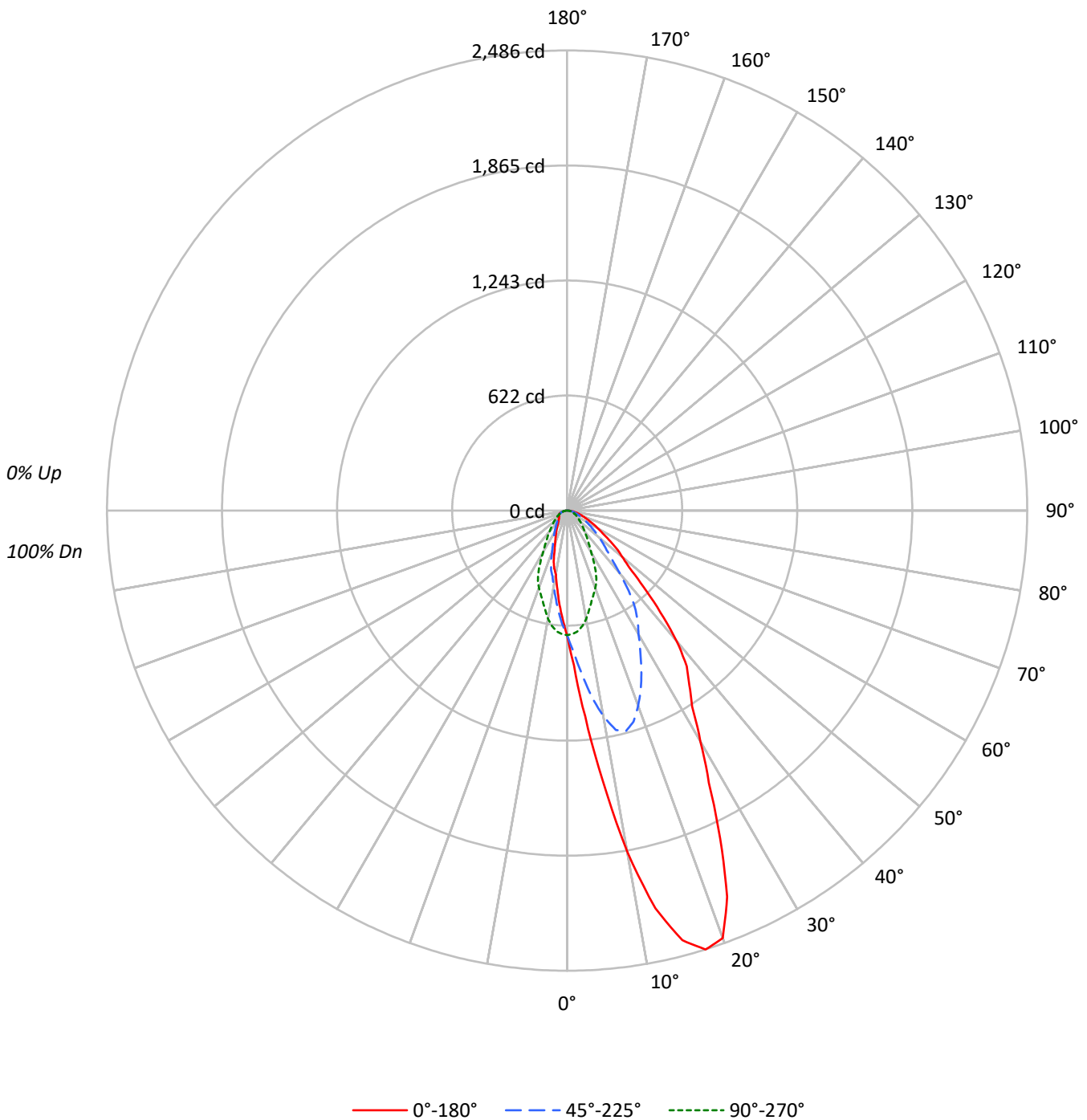
Input Watts (W): 19.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P130191

CATALOG NUMBER: HL612ICAT - HLM6935 - HL6FL - 73PS

Luminous Intensity Polar Plot





TEST NUMBER: P130191

CATALOG NUMBER: HL612ICAT - HLM6935 - HL6FL - 73PS

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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 | | | | | 89 | | | |
| 2 | 103 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 80 | 79 | | | | | 79 | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 90 | 80 | 73 | 68 | 88 | 79 | 72 | 67 | 77 | 71 | 66 | 74 | 70 | 65 | 72 | 68 | 65 | 63 | | | | | 63 | | | |
| 5 | 84 | 74 | 66 | 61 | 82 | 72 | 66 | 60 | 71 | 64 | 60 | 69 | 63 | 59 | 67 | 62 | 59 | 57 | | | | | 57 | | | |
| 6 | 79 | 68 | 60 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 53 | 52 | | | | | 52 | | | |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 60 | 54 | 50 | 59 | 53 | 49 | 58 | 53 | 49 | 47 | | | | | 47 | | | |
| 8 | 70 | 58 | 51 | 46 | 68 | 58 | 51 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 54 | 49 | 45 | 43 | | | | | 43 | | | |
| 9 | 66 | 54 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 45 | 42 | 40 | | | | | 40 | | | |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 48 | 42 | 39 | 37 | | | | | 37 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|-------|-------|
| 0° | 40184 | 40184 | 40184 |
| 5° | 65362 | 38291 | 29027 |
| 10° | 108491 | 34346 | 20305 |
| 15° | 138615 | 29306 | 16176 |
| 20° | 142326 | 25757 | 10947 |
| 25° | 114540 | 21530 | 8444 |
| 30° | 86080 | 15543 | 6669 |
| 35° | 70678 | 11882 | 5345 |
| 40° | 58738 | 9462 | 4536 |
| 45° | 38802 | 7736 | 4222 |
| 50° | 27273 | 6446 | 3964 |
| 55° | 20685 | 5500 | 4240 |
| 60° | 15664 | 4889 | 4096 |
| 65° | 11939 | 4274 | 4193 |
| 70° | 9220 | 3551 | 3985 |
| 75° | 7330 | 3057 | 3462 |
| 80° | 5060 | 2537 | 2646 |
| 85° | 3579 | 1646 | 1781 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.6 | 5.8 |
| 10°-20° | 237.9 | 19.4 |
| 20°-30° | 290.3 | 23.7 |
| 30°-40° | 241.6 | 19.7 |
| 40°-50° | 162.0 | 13.2 |
| 50°-60° | 104.4 | 8.5 |
| 60°-70° | 66.8 | 5.5 |
| 70°-80° | 37.8 | 3.1 |
| 80°-90° | 13.4 | 1.1 |
| 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° | 599.7 | 48.9 |
| 0°-40° | 841.4 | 68.6 |
| 0°-60° | 1107.8 | 90.4 |
| 0°-90° | 1225.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1225.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 673 | 673 | 673 | 673 | 673 | |
| 5° | 1116 | 880 | 654 | 543 | 496 | 130 |
| 15° | 2403 | 1232 | 508 | 333 | 280 | 664 |
| 25° | 1955 | 949 | 367 | 177 | 144 | 890 |
| 35° | 1150 | 638 | 193 | 107 | 87 | 724 |
| 45° | 582 | 302 | 116 | 73 | 63 | 466 |
| 55° | 274 | 164 | 73 | 56 | 56 | 251 |
| 65° | 133 | 85 | 48 | 47 | 47 | 134 |
| 75° | 63 | 41 | 26 | 29 | 30 | 66 |
| 85° | 21 | 15 | 10 | 10 | 10 | 23 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P130191

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 |
| 2.5° | 836.7 | 820.0 | 821.7 | 823.5 | 802.4 | 801.5 | 793.6 | 791.9 | 771.6 | 758.5 | 757.6 |
| 5° | 1116.2 | 1077.5 | 1079.3 | 1062.6 | 1035.3 | 1010.7 | 982.6 | 958.0 | 915.8 | 879.7 | 856.0 |
| 7.5° | 1466.8 | 1408.0 | 1422.0 | 1387.7 | 1321.8 | 1277.0 | 1213.7 | 1154.8 | 1078.4 | 1012.5 | 950.9 |
| 10° | 1873.8 | 1807.8 | 1808.7 | 1760.4 | 1655.8 | 1564.4 | 1466.0 | 1372.8 | 1234.8 | 1128.5 | 1031.8 |
| 12.5° | 2200.7 | 2154.1 | 2135.7 | 2075.9 | 1939.7 | 1849.1 | 1707.6 | 1547.7 | 1372.8 | 1213.7 | 1084.5 |
| 15° | 2402.8 | 2348.3 | 2336.0 | 2269.2 | 2130.4 | 2010.9 | 1836.0 | 1640.0 | 1429.0 | 1232.2 | 1081.9 |
| 17.5° | 2486.3 | 2431.8 | 2418.7 | 2337.8 | 2177.8 | 2037.2 | 1831.6 | 1614.5 | 1391.3 | 1194.4 | 1042.3 |
| 20° | 2457.3 | 2365.0 | 2365.0 | 2259.6 | 2068.0 | 1908.9 | 1712.9 | 1499.4 | 1299.0 | 1121.4 | 991.4 |
| 22.5° | 2258.7 | 2202.4 | 2167.3 | 2054.8 | 1870.2 | 1732.3 | 1536.3 | 1362.2 | 1193.5 | 1040.6 | 925.5 |
| 25° | 1954.6 | 1896.6 | 1869.4 | 1776.2 | 1610.1 | 1507.3 | 1355.2 | 1204.9 | 1076.6 | 949.2 | 849.0 |
| 27.5° | 1658.4 | 1610.1 | 1596.0 | 1524.8 | 1402.7 | 1310.4 | 1191.7 | 1074.0 | 963.2 | 855.1 | 772.5 |
| 30° | 1440.5 | 1396.5 | 1387.7 | 1326.2 | 1224.3 | 1124.1 | 1051.1 | 955.3 | 865.7 | 771.6 | 702.2 |
| 32.5° | 1255.9 | 1228.7 | 1214.6 | 1158.4 | 1078.4 | 1021.2 | 948.3 | 868.3 | 791.9 | 708.4 | 643.3 |
| 35° | 1150.4 | 1118.8 | 1106.5 | 1060.8 | 985.2 | 934.2 | 868.3 | 795.4 | 718.9 | 638.1 | 572.1 |
| 37.5° | 1060.8 | 1031.8 | 1016.9 | 974.7 | 902.6 | 844.6 | 778.7 | 703.1 | 624.9 | 545.8 | 484.3 |
| 40° | 921.9 | 892.9 | 886.8 | 842.8 | 776.9 | 722.4 | 660.9 | 586.2 | 510.6 | 441.2 | 392.0 |
| 42.5° | 745.3 | 726.8 | 720.7 | 692.5 | 627.5 | 582.7 | 523.8 | 464.0 | 413.9 | 358.6 | 319.0 |
| 45° | 581.8 | 564.2 | 552.8 | 529.1 | 485.1 | 462.3 | 415.7 | 374.4 | 338.4 | 302.3 | 276.8 |
| 47.5° | 454.4 | 448.2 | 447.3 | 428.0 | 397.2 | 379.7 | 347.2 | 318.2 | 290.0 | 261.9 | 239.9 |
| 50° | 386.7 | 375.3 | 374.4 | 365.6 | 342.8 | 328.7 | 300.6 | 275.1 | 254.0 | 229.4 | 208.3 |
| 52.5° | 337.5 | 328.7 | 324.3 | 311.1 | 287.4 | 277.7 | 254.0 | 234.7 | 216.2 | 195.1 | 179.3 |
| 55° | 274.2 | 269.8 | 266.3 | 257.5 | 239.1 | 228.5 | 213.6 | 196.0 | 181.0 | 164.3 | 152.0 |
| 57.5° | 226.7 | 221.5 | 220.6 | 214.4 | 200.4 | 193.4 | 181.0 | 165.2 | 153.8 | 139.7 | 129.2 |
| 60° | 191.6 | 187.2 | 184.6 | 179.3 | 167.9 | 162.6 | 152.9 | 139.7 | 131.0 | 117.8 | 110.7 |
| 62.5° | 160.0 | 156.4 | 153.8 | 149.4 | 141.5 | 136.2 | 129.2 | 119.5 | 110.7 | 101.1 | 94.0 |
| 65° | 132.7 | 130.1 | 128.3 | 124.8 | 117.8 | 114.3 | 108.1 | 101.1 | 93.2 | 85.3 | 80.0 |
| 67.5° | 109.9 | 109.0 | 108.1 | 103.7 | 98.4 | 96.7 | 90.5 | 84.4 | 79.1 | 72.1 | 66.8 |
| 70° | 91.4 | 90.5 | 89.6 | 87.0 | 82.6 | 80.0 | 75.6 | 70.3 | 65.9 | 59.8 | 56.2 |
| 72.5° | 73.8 | 73.8 | 72.9 | 71.2 | 66.8 | 65.0 | 60.6 | 57.1 | 53.6 | 49.2 | 46.6 |
| 75° | 63.3 | 62.4 | 61.5 | 58.9 | 56.2 | 54.5 | 51.9 | 48.3 | 44.8 | 41.3 | 38.7 |
| 77.5° | 49.2 | 48.3 | 48.3 | 47.5 | 44.8 | 43.9 | 41.3 | 38.7 | 36.9 | 35.2 | 33.4 |
| 80° | 36.9 | 36.0 | 36.0 | 35.2 | 33.4 | 32.5 | 31.6 | 29.0 | 28.1 | 25.5 | 24.6 |
| 82.5° | 31.6 | 30.8 | 29.9 | 29.0 | 27.2 | 27.2 | 24.6 | 22.9 | 21.1 | 19.3 | 18.5 |
| 85° | 21.1 | 20.2 | 20.2 | 20.2 | 19.3 | 19.3 | 17.6 | 16.7 | 16.7 | 14.9 | 14.1 |
| 87.5° | 13.2 | 12.3 | 12.3 | 12.3 | 11.4 | 11.4 | 11.4 | 9.7 | 9.7 | 8.8 | 8.8 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 |
| 2.5° | 747.0 | 736.5 | 726.8 | 716.3 | 700.5 | 699.6 | 680.2 | 667.1 | 653.9 | 660.0 | 641.6 |
| 5° | 829.7 | 801.5 | 776.0 | 751.4 | 723.3 | 708.4 | 677.6 | 653.9 | 632.8 | 631.0 | 607.3 |
| 7.5° | 892.9 | 843.7 | 803.3 | 766.4 | 725.1 | 702.2 | 662.7 | 629.3 | 601.1 | 590.6 | 560.7 |
| 10° | 942.1 | 869.2 | 810.3 | 761.1 | 710.1 | 677.6 | 627.5 | 593.2 | 558.1 | 543.1 | 510.6 |
| 12.5° | 964.1 | 870.1 | 800.7 | 747.0 | 682.0 | 643.3 | 593.2 | 548.4 | 512.4 | 496.6 | 467.6 |
| 15° | 955.3 | 853.4 | 781.3 | 718.0 | 652.1 | 603.8 | 549.3 | 508.0 | 482.5 | 457.9 | 427.1 |
| 17.5° | 923.7 | 822.6 | 748.8 | 681.1 | 614.3 | 567.8 | 515.9 | 474.6 | 441.2 | 422.7 | 392.9 |
| 20° | 876.2 | 785.7 | 710.1 | 644.2 | 577.4 | 534.4 | 480.7 | 444.7 | 411.3 | 390.2 | 355.1 |
| 22.5° | 821.7 | 733.0 | 662.7 | 601.1 | 537.9 | 497.4 | 451.7 | 413.1 | 374.4 | 354.2 | 315.5 |
| 25° | 749.7 | 675.9 | 610.8 | 554.6 | 497.4 | 458.8 | 406.9 | 367.4 | 324.3 | 300.6 | 264.5 |
| 27.5° | 689.0 | 619.6 | 562.5 | 510.6 | 450.9 | 407.8 | 354.2 | 312.0 | 273.3 | 250.5 | 222.4 |
| 30° | 631.9 | 567.8 | 503.6 | 452.6 | 391.1 | 344.5 | 298.8 | 260.1 | 228.5 | 213.6 | 194.2 |
| 32.5° | 578.3 | 504.5 | 445.6 | 388.5 | 330.5 | 285.6 | 249.6 | 222.4 | 199.5 | 188.1 | 171.4 |
| 35° | 500.1 | 428.0 | 376.2 | 319.9 | 271.6 | 243.4 | 214.4 | 193.4 | 174.9 | 164.3 | 150.3 |
| 37.5° | 412.2 | 353.3 | 300.6 | 263.7 | 231.1 | 211.8 | 187.2 | 168.7 | 152.9 | 145.0 | 133.6 |
| 40° | 331.3 | 287.4 | 253.1 | 228.5 | 203.0 | 184.6 | 162.6 | 148.5 | 136.2 | 128.3 | 118.6 |
| 42.5° | 281.2 | 250.5 | 220.6 | 199.5 | 176.7 | 161.7 | 144.1 | 130.1 | 119.5 | 113.4 | 104.6 |
| 45° | 246.1 | 221.5 | 196.0 | 176.7 | 156.4 | 143.3 | 127.4 | 116.0 | 107.2 | 101.1 | 94.0 |
| 47.5° | 214.4 | 192.5 | 174.0 | 155.6 | 138.0 | 127.4 | 113.4 | 102.8 | 94.0 | 90.5 | 83.5 |
| 50° | 188.1 | 167.9 | 150.3 | 135.3 | 121.3 | 111.6 | 100.2 | 91.4 | 85.3 | 82.6 | 77.3 |
| 52.5° | 161.7 | 145.0 | 130.1 | 118.6 | 106.3 | 98.4 | 88.8 | 81.7 | 77.3 | 74.7 | 71.2 |
| 55° | 136.2 | 123.9 | 111.6 | 101.9 | 92.3 | 87.0 | 79.1 | 72.9 | 69.4 | 68.6 | 64.2 |
| 57.5° | 116.9 | 105.5 | 97.6 | 88.8 | 81.7 | 76.5 | 70.3 | 66.8 | 63.3 | 62.4 | 59.8 |
| 60° | 100.2 | 90.5 | 83.5 | 77.3 | 71.2 | 67.7 | 63.3 | 59.8 | 56.2 | 56.2 | 54.5 |
| 62.5° | 85.3 | 77.3 | 72.1 | 66.8 | 61.5 | 58.9 | 55.4 | 52.7 | 51.0 | 51.0 | 50.1 |
| 65° | 73.8 | 65.9 | 61.5 | 58.0 | 54.5 | 52.7 | 49.2 | 47.5 | 45.7 | 45.7 | 44.8 |
| 67.5° | 62.4 | 56.2 | 52.7 | 50.1 | 46.6 | 44.8 | 42.2 | 41.3 | 40.4 | 39.5 | 38.7 |
| 70° | 52.7 | 48.3 | 44.8 | 42.2 | 39.5 | 38.7 | 36.0 | 35.2 | 34.3 | 35.2 | 34.3 |
| 72.5° | 43.9 | 40.4 | 37.8 | 36.0 | 34.3 | 33.4 | 31.6 | 30.8 | 29.9 | 29.9 | 29.9 |
| 75° | 36.0 | 33.4 | 31.6 | 29.9 | 29.0 | 28.1 | 27.2 | 26.4 | 25.5 | 26.4 | 25.5 |
| 77.5° | 30.8 | 28.1 | 26.4 | 25.5 | 24.6 | 23.7 | 22.9 | 22.9 | 22.0 | 22.0 | 22.0 |
| 80° | 23.7 | 22.0 | 21.1 | 19.3 | 19.3 | 18.5 | 18.5 | 18.5 | 17.6 | 18.5 | 18.5 |
| 82.5° | 17.6 | 15.8 | 14.9 | 14.9 | 14.1 | 14.1 | 14.1 | 14.1 | 13.2 | 14.1 | 14.1 |
| 85° | 13.2 | 12.3 | 11.4 | 10.5 | 10.5 | 10.5 | 10.5 | 9.7 | 9.7 | 9.7 | 9.7 |
| 87.5° | 7.9 | 7.0 | 6.2 | 6.2 | 5.3 | 6.2 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| 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):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 |
| 2.5° | 630.2 | 624.9 | 624.9 | 604.7 | 601.1 | 613.5 | 599.4 | 588.8 | 595.0 | 587.1 | 590.6 |
| 5° | 589.7 | 579.2 | 571.3 | 551.1 | 544.0 | 543.1 | 529.1 | 513.3 | 513.3 | 508.9 | 508.0 |
| 7.5° | 537.9 | 522.0 | 509.7 | 488.7 | 479.0 | 475.5 | 459.6 | 443.0 | 441.2 | 433.3 | 430.6 |
| 10° | 483.4 | 469.3 | 452.6 | 431.5 | 421.0 | 413.1 | 393.7 | 381.4 | 375.3 | 367.4 | 363.9 |
| 12.5° | 435.9 | 421.9 | 405.2 | 379.7 | 368.2 | 363.9 | 348.0 | 339.2 | 337.5 | 332.2 | 330.5 |
| 15° | 399.9 | 379.7 | 364.7 | 344.5 | 335.7 | 333.1 | 318.2 | 308.5 | 304.1 | 297.1 | 290.0 |
| 17.5° | 366.5 | 345.4 | 332.2 | 312.0 | 300.6 | 290.0 | 271.6 | 258.4 | 247.0 | 243.4 | 237.3 |
| 20° | 330.5 | 307.6 | 286.5 | 264.5 | 248.7 | 238.2 | 220.6 | 210.9 | 208.3 | 202.1 | 197.7 |
| 22.5° | 277.7 | 261.9 | 239.1 | 219.7 | 207.4 | 202.1 | 191.6 | 183.7 | 181.0 | 175.8 | 173.1 |
| 25° | 237.3 | 218.0 | 203.9 | 191.6 | 181.0 | 176.7 | 167.0 | 160.8 | 158.2 | 153.8 | 152.0 |
| 27.5° | 203.9 | 189.8 | 179.3 | 167.9 | 159.1 | 155.6 | 147.7 | 141.5 | 138.9 | 134.5 | 132.7 |
| 30° | 177.5 | 167.0 | 158.2 | 146.8 | 140.6 | 136.2 | 130.1 | 123.9 | 122.2 | 119.5 | 116.9 |
| 32.5° | 157.3 | 148.5 | 139.7 | 130.1 | 123.9 | 120.4 | 115.1 | 109.9 | 108.1 | 105.5 | 103.7 |
| 35° | 139.7 | 131.0 | 123.9 | 113.4 | 109.9 | 107.2 | 101.9 | 96.7 | 95.8 | 93.2 | 91.4 |
| 37.5° | 123.0 | 116.9 | 109.9 | 101.9 | 97.6 | 95.8 | 91.4 | 87.0 | 86.1 | 83.5 | 82.6 |
| 40° | 109.0 | 103.7 | 98.4 | 89.6 | 87.9 | 87.0 | 82.6 | 78.2 | 78.2 | 76.5 | 75.6 |
| 42.5° | 96.7 | 93.2 | 87.9 | 83.5 | 80.0 | 79.1 | 75.6 | 72.9 | 72.9 | 71.2 | 70.3 |
| 45° | 87.0 | 84.4 | 80.9 | 76.5 | 73.8 | 72.9 | 70.3 | 67.7 | 67.7 | 66.8 | 66.8 |
| 47.5° | 80.0 | 76.5 | 73.8 | 70.3 | 67.7 | 67.7 | 65.0 | 63.3 | 63.3 | 62.4 | 62.4 |
| 50° | 72.9 | 71.2 | 68.6 | 65.9 | 63.3 | 63.3 | 60.6 | 58.9 | 59.8 | 59.8 | 58.9 |
| 52.5° | 66.8 | 65.9 | 64.2 | 61.5 | 59.8 | 59.8 | 58.0 | 56.2 | 57.1 | 56.2 | 56.2 |
| 55° | 61.5 | 61.5 | 59.8 | 58.0 | 56.2 | 56.2 | 54.5 | 53.6 | 54.5 | 55.4 | 55.4 |
| 57.5° | 58.0 | 57.1 | 56.2 | 54.5 | 54.5 | 54.5 | 53.6 | 52.7 | 53.6 | 53.6 | 53.6 |
| 60° | 52.7 | 53.6 | 52.7 | 51.9 | 51.0 | 51.9 | 51.0 | 49.2 | 50.1 | 50.1 | 51.0 |
| 62.5° | 48.3 | 49.2 | 49.2 | 49.2 | 49.2 | 49.2 | 49.2 | 48.3 | 50.1 | 51.0 | 51.0 |
| 65° | 43.9 | 44.8 | 44.8 | 44.8 | 44.8 | 46.6 | 45.7 | 44.8 | 45.7 | 46.6 | 46.6 |
| 67.5° | 38.7 | 39.5 | 39.5 | 39.5 | 39.5 | 40.4 | 40.4 | 39.5 | 40.4 | 41.3 | 42.2 |
| 70° | 33.4 | 35.2 | 35.2 | 35.2 | 36.0 | 36.9 | 36.9 | 36.0 | 37.8 | 38.7 | 40.4 |
| 72.5° | 29.0 | 29.9 | 30.8 | 30.8 | 31.6 | 33.4 | 33.4 | 33.4 | 34.3 | 34.3 | 34.3 |
| 75° | 25.5 | 26.4 | 26.4 | 27.2 | 27.2 | 29.0 | 29.0 | 29.0 | 29.9 | 29.9 | 29.9 |
| 77.5° | 22.0 | 22.0 | 22.9 | 22.9 | 23.7 | 24.6 | 24.6 | 24.6 | 25.5 | 25.5 | 25.5 |
| 80° | 17.6 | 18.5 | 18.5 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 20.2 | 20.2 | 21.1 |
| 82.5° | 13.2 | 14.1 | 14.1 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 15.8 | 15.8 | 15.8 |
| 85° | 9.7 | 9.7 | 9.7 | 10.5 | 9.7 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 |
| 87.5° | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 4.4 | 5.3 | 4.4 |
| 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: P130191

CATALOG NUMBER: HL612ICAT - HLM6935 - HL6FL - 73PS

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 673.2 | 673.2 | 673.2 | 673.2 |
| 2.5° | 588.8 | 583.6 | 579.2 | 580.1 |
| 5° | 505.4 | 493.9 | 500.1 | 495.7 |
| 7.5° | 428.9 | 422.7 | 419.2 | 415.7 |
| 10° | 360.3 | 349.8 | 352.4 | 350.7 |
| 12.5° | 326.1 | 322.5 | 322.5 | 320.8 |
| 15° | 288.3 | 283.0 | 281.2 | 280.4 |
| 17.5° | 229.4 | 225.9 | 225.0 | 224.1 |
| 20° | 196.0 | 191.6 | 189.8 | 189.0 |
| 22.5° | 170.5 | 167.0 | 166.1 | 164.3 |
| 25° | 150.3 | 145.9 | 145.9 | 144.1 |
| 27.5° | 130.1 | 128.3 | 127.4 | 126.6 |
| 30° | 116.0 | 113.4 | 112.5 | 111.6 |
| 32.5° | 104.6 | 100.2 | 99.3 | 98.4 |
| 35° | 89.6 | 88.8 | 87.0 | 87.0 |
| 37.5° | 81.7 | 80.0 | 80.0 | 79.1 |
| 40° | 74.7 | 72.9 | 72.1 | 71.2 |
| 42.5° | 70.3 | 68.6 | 67.7 | 67.7 |
| 45° | 65.9 | 65.0 | 64.2 | 63.3 |
| 47.5° | 62.4 | 61.5 | 60.6 | 59.8 |
| 50° | 58.9 | 58.0 | 58.0 | 56.2 |
| 52.5° | 57.1 | 57.1 | 57.1 | 56.2 |
| 55° | 56.2 | 56.2 | 57.1 | 56.2 |
| 57.5° | 53.6 | 53.6 | 52.7 | 51.9 |
| 60° | 51.9 | 51.9 | 51.9 | 50.1 |
| 62.5° | 51.0 | 50.1 | 51.0 | 50.1 |
| 65° | 46.6 | 46.6 | 47.5 | 46.6 |
| 67.5° | 43.9 | 43.9 | 43.9 | 43.1 |
| 70° | 40.4 | 40.4 | 39.5 | 39.5 |
| 72.5° | 35.2 | 35.2 | 35.2 | 35.2 |
| 75° | 29.9 | 29.9 | 29.9 | 29.9 |
| 77.5° | 25.5 | 24.6 | 24.6 | 24.6 |
| 80° | 20.2 | 19.3 | 19.3 | 19.3 |
| 82.5° | 15.8 | 15.8 | 15.8 | 14.9 |
| 85° | 10.5 | 10.5 | 10.5 | 10.5 |
| 87.5° | 4.4 | 4.4 | 4.4 | 4.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)