

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: P130092

Luminaire Tested: **HL618TAT - HLM6930 - HL6NFL - 73PS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P130092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33478)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: HL618TAT - HLM6930 - HL6NFL - 73PS  
Description: HALO ALLSLOPE 6" 30W, Fresnel Glass Lens, White Polymer Trim Ring  
"Dead Front", Wet Location - Showerlight using 25 Degree Optic at a 6-12  
Pitch  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1536.3 lumens  
Efficiency: N/A  
Efficacy: 55.7 lumens/watt  
Spacing Criteria (0/90/45): 1.67 / 0.76 / 1.09  
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')  
CIE Type: Direct

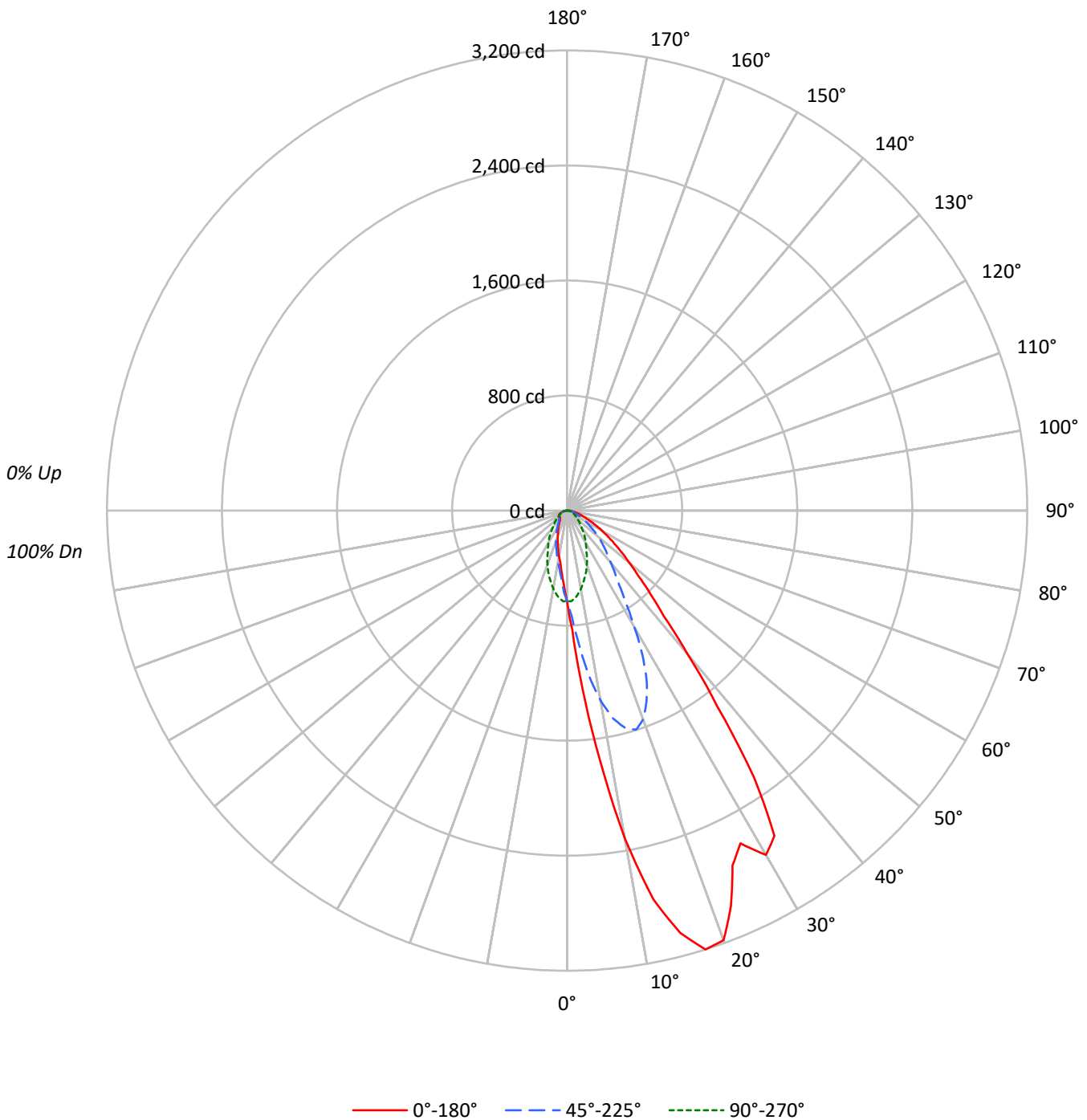
Input Watts (W): 27.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99  | 101 | 99  | 96  | 97  | 95  | 93  | 94  | 92  | 91  |
| 2   | 103 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 82  | 86  | 83  | 80  |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 84  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  |
| 4   | 90  | 80  | 73  | 67  | 88  | 79  | 72  | 67  | 76  | 71  | 66  | 74  | 69  | 65  | 72  | 68  | 64  |
| 5   | 84  | 73  | 66  | 60  | 82  | 72  | 65  | 60  | 70  | 64  | 59  | 68  | 63  | 59  | 67  | 62  | 58  |
| 6   | 79  | 67  | 60  | 54  | 77  | 66  | 59  | 54  | 65  | 58  | 54  | 63  | 58  | 53  | 62  | 57  | 53  |
| 7   | 74  | 62  | 55  | 49  | 72  | 61  | 54  | 49  | 60  | 54  | 49  | 59  | 53  | 49  | 57  | 52  | 48  |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 49  | 45  | 55  | 49  | 45  | 53  | 48  | 44  |
| 9   | 65  | 54  | 46  | 42  | 64  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 37641  | 37641 | 37641 |
| 5°  | 73226  | 35925 | 25244 |
| 10° | 134059 | 32001 | 18782 |
| 15° | 175426 | 27575 | 14220 |
| 20° | 184162 | 23174 | 10999 |
| 25° | 159504 | 18506 | 8626  |
| 30° | 165265 | 15495 | 6824  |
| 35° | 139169 | 12718 | 5572  |
| 40° | 83211  | 10061 | 4893  |
| 45° | 54582  | 8397  | 4629  |
| 50° | 39658  | 6926  | 4895  |
| 55° | 30266  | 5794  | 5311  |
| 60° | 22859  | 5151  | 5232  |
| 65° | 16510  | 4508  | 5569  |
| 70° | 12055  | 3874  | 4731  |
| 75° | 9518   | 3335  | 4076  |
| 80° | 6582   | 2783  | 3661  |
| 85° | 5429   | 1985  | 1985  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.9   | 4.8       |
| 10°-20°   | 278.4  | 18.1      |
| 20°-30°   | 383.7  | 25.0      |
| 30°-40°   | 329.7  | 21.5      |
| 40°-50°   | 197.4  | 12.9      |
| 50°-60°   | 131.4  | 8.6       |
| 60°-70°   | 81.3   | 5.3       |
| 70°-80°   | 43.9   | 2.9       |
| 80°-90°   | 16.4   | 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°    | 736.0  | 47.9      |
| 0°-40°    | 1065.7 | 69.4      |
| 0°-60°    | 1394.6 | 90.8      |
| 0°-90°    | 1536.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1536.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 631  | 631  | 631 | 631  | 631  |      |
| 5°  | 1250 | 930  | 614 | 468  | 431  | 153  |
| 15° | 3041 | 1567 | 478 | 283  | 246  | 846  |
| 25° | 2722 | 1310 | 316 | 179  | 147  | 1298 |
| 35° | 2265 | 632  | 207 | 106  | 91   | 1346 |
| 45° | 818  | 367  | 126 | 77   | 69   | 655  |
| 55° | 401  | 203  | 77  | 64   | 70   | 365  |
| 65° | 184  | 99   | 50  | 53   | 62   | 188  |
| 75° | 82   | 45   | 29  | 32   | 35   | 85   |
| 85° | 32   | 18   | 12  | 12   | 12   | 32   |
| 90° | 0    | 0    | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 630.6  | 630.6  | 630.6  | 630.6  | 630.6  | 630.6  | 630.6  | 630.6  | 630.6  | 630.6  | 630.6  |
| 2.5°  | 833.3  | 803.4  | 809.8  | 801.3  | 799.2  | 773.6  | 775.7  | 762.9  | 746.9  | 734.1  | 734.1  |
| 5°    | 1250.5 | 1238.8 | 1239.8 | 1205.7 | 1170.5 | 1117.1 | 1070.2 | 1052.0 | 985.9  | 930.4  | 893.1  |
| 7.5°  | 1749.9 | 1728.5 | 1716.8 | 1646.4 | 1604.7 | 1515.1 | 1440.4 | 1365.7 | 1255.8 | 1154.5 | 1071.3 |
| 10°   | 2315.4 | 2310.0 | 2283.3 | 2186.3 | 2098.8 | 1931.2 | 1795.7 | 1672.0 | 1484.2 | 1342.3 | 1207.8 |
| 12.5° | 2768.8 | 2752.8 | 2742.2 | 2657.9 | 2525.6 | 2328.2 | 2125.4 | 1921.6 | 1678.4 | 1482.0 | 1308.1 |
| 15°   | 3040.9 | 3042.0 | 3036.6 | 2945.9 | 2805.1 | 2581.0 | 2332.4 | 2084.9 | 1802.1 | 1567.4 | 1365.7 |
| 17.5° | 3199.9 | 3182.8 | 3178.6 | 3066.5 | 2897.9 | 2649.3 | 2393.2 | 2141.4 | 1818.1 | 1597.3 | 1363.6 |
| 20°   | 3179.6 | 3165.7 | 3142.3 | 3018.5 | 2823.2 | 2574.6 | 2331.4 | 2093.4 | 1804.3 | 1546.1 | 1296.4 |
| 22.5° | 2976.9 | 2974.8 | 2950.2 | 2844.6 | 2652.5 | 2424.2 | 2209.7 | 1991.0 | 1708.2 | 1441.5 | 1202.5 |
| 25°   | 2721.9 | 2733.6 | 2739.0 | 2653.6 | 2509.6 | 2323.9 | 2121.2 | 1883.2 | 1585.5 | 1310.3 | 1074.5 |
| 27.5° | 2608.8 | 2625.9 | 2655.7 | 2599.2 | 2472.2 | 2262.0 | 2040.1 | 1755.2 | 1412.7 | 1135.3 | 918.7  |
| 30°   | 2765.6 | 2756.0 | 2725.1 | 2603.4 | 2419.9 | 2131.8 | 1829.9 | 1508.7 | 1165.1 | 932.5  | 768.2  |
| 32.5° | 2682.4 | 2642.9 | 2575.7 | 2380.4 | 2138.2 | 1811.7 | 1494.8 | 1197.2 | 931.5  | 759.7  | 645.5  |
| 35°   | 2265.2 | 2244.9 | 2168.1 | 1931.2 | 1695.4 | 1386.0 | 1144.9 | 929.3  | 753.3  | 631.7  | 557.0  |
| 37.5° | 1713.6 | 1669.8 | 1596.2 | 1438.3 | 1267.6 | 1053.1 | 883.5  | 746.9  | 626.3  | 543.1  | 475.9  |
| 40°   | 1306.0 | 1269.7 | 1218.5 | 1096.9 | 967.8  | 831.2  | 717.0  | 621.0  | 536.7  | 470.5  | 417.2  |
| 42.5° | 993.4  | 982.7  | 949.6  | 873.9  | 788.5  | 686.1  | 610.3  | 537.8  | 469.5  | 415.1  | 373.4  |
| 45°   | 818.4  | 805.6  | 788.5  | 736.2  | 669.0  | 586.8  | 525.0  | 465.2  | 410.8  | 367.0  | 331.8  |
| 47.5° | 673.3  | 663.7  | 646.6  | 606.0  | 560.2  | 499.3  | 452.4  | 405.5  | 360.6  | 324.4  | 291.3  |
| 50°   | 562.3  | 563.4  | 545.2  | 518.6  | 478.0  | 428.9  | 391.6  | 354.2  | 315.8  | 278.5  | 253.9  |
| 52.5° | 478.0  | 473.7  | 459.9  | 438.5  | 405.5  | 369.2  | 338.2  | 306.2  | 271.0  | 242.2  | 216.6  |
| 55°   | 401.2  | 395.9  | 387.3  | 369.2  | 344.6  | 315.8  | 289.2  | 260.3  | 229.4  | 202.7  | 183.5  |
| 57.5° | 336.1  | 331.8  | 324.4  | 310.5  | 289.2  | 264.6  | 242.2  | 218.7  | 193.1  | 171.8  | 155.8  |
| 60°   | 279.6  | 276.3  | 269.9  | 259.3  | 241.1  | 220.9  | 202.7  | 182.5  | 161.1  | 145.1  | 132.3  |
| 62.5° | 229.4  | 225.1  | 221.9  | 214.5  | 197.4  | 183.5  | 167.5  | 150.4  | 135.5  | 120.6  | 109.9  |
| 65°   | 183.5  | 182.5  | 180.3  | 173.9  | 165.4  | 149.4  | 137.6  | 123.8  | 111.0  | 99.2   | 91.8   |
| 67.5° | 148.3  | 147.2  | 147.2  | 140.8  | 131.2  | 119.5  | 111.0  | 101.4  | 90.7   | 82.2   | 75.8   |
| 70°   | 119.5  | 118.4  | 117.4  | 112.0  | 106.7  | 97.1   | 90.7   | 82.2   | 74.7   | 67.2   | 63.0   |
| 72.5° | 95.0   | 95.0   | 95.0   | 91.8   | 86.4   | 80.0   | 73.6   | 67.2   | 60.8   | 55.5   | 51.2   |
| 75°   | 82.2   | 82.2   | 77.9   | 76.8   | 72.6   | 67.2   | 60.8   | 55.5   | 50.1   | 44.8   | 42.7   |
| 77.5° | 63.0   | 65.1   | 63.0   | 61.9   | 58.7   | 53.3   | 49.1   | 44.8   | 39.5   | 36.3   | 34.1   |
| 80°   | 48.0   | 48.0   | 48.0   | 45.9   | 43.7   | 40.5   | 37.3   | 34.1   | 30.9   | 27.7   | 26.7   |
| 82.5° | 39.5   | 39.5   | 37.3   | 35.2   | 33.1   | 30.9   | 29.9   | 27.7   | 24.5   | 21.3   | 20.3   |
| 85°   | 32.0   | 32.0   | 33.1   | 32.0   | 28.8   | 25.6   | 22.4   | 21.3   | 19.2   | 18.1   | 17.1   |
| 87.5° | 23.5   | 22.4   | 21.3   | 21.3   | 19.2   | 17.1   | 16.0   | 14.9   | 12.8   | 11.7   | 11.7   |
| 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°    | 630.6  | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 |
| 2.5°  | 711.7  | 696.7 | 678.6 | 674.3 | 666.9 | 641.3 | 637.0 | 630.6 | 617.8 | 601.8 | 601.8 |
| 5°    | 844.0  | 793.8 | 746.9 | 718.1 | 692.5 | 650.9 | 631.7 | 613.5 | 591.1 | 563.4 | 557.0 |
| 7.5°  | 966.7  | 879.2 | 802.4 | 748.0 | 702.1 | 644.5 | 613.5 | 584.7 | 554.8 | 521.8 | 507.9 |
| 10°   | 1060.6 | 935.7 | 835.4 | 757.6 | 693.5 | 624.2 | 584.7 | 552.7 | 515.4 | 481.2 | 464.1 |
| 12.5° | 1119.3 | 962.4 | 838.7 | 745.8 | 672.2 | 595.4 | 551.6 | 514.3 | 476.9 | 439.6 | 420.4 |
| 15°   | 1138.5 | 957.1 | 820.5 | 720.2 | 640.2 | 562.3 | 517.5 | 478.0 | 438.5 | 403.3 | 387.3 |
| 17.5° | 1110.7 | 918.7 | 780.0 | 675.4 | 598.6 | 523.9 | 481.2 | 440.7 | 405.5 | 369.2 | 352.1 |
| 20°   | 1048.8 | 854.7 | 722.3 | 626.3 | 550.6 | 479.1 | 436.4 | 400.1 | 367.0 | 334.0 | 314.8 |
| 22.5° | 958.2  | 777.8 | 656.2 | 569.8 | 500.4 | 433.2 | 393.7 | 361.7 | 327.6 | 298.8 | 282.8 |
| 25°   | 850.4  | 694.6 | 590.0 | 509.0 | 447.1 | 389.4 | 353.2 | 315.8 | 293.4 | 266.7 | 251.8 |
| 27.5° | 734.1  | 610.3 | 516.4 | 455.6 | 399.1 | 346.8 | 315.8 | 287.0 | 264.6 | 240.1 | 225.1 |
| 30°   | 625.3  | 531.4 | 457.7 | 400.1 | 354.2 | 308.4 | 284.9 | 259.3 | 236.9 | 213.4 | 200.6 |
| 32.5° | 544.2  | 463.1 | 402.3 | 358.5 | 319.0 | 280.6 | 257.1 | 233.7 | 211.3 | 189.9 | 178.2 |
| 35°   | 465.2  | 403.3 | 358.5 | 319.0 | 284.9 | 250.7 | 229.4 | 207.0 | 185.7 | 167.5 | 155.8 |
| 37.5° | 410.8  | 359.6 | 316.9 | 283.8 | 251.8 | 221.9 | 200.6 | 180.3 | 163.2 | 146.2 | 136.6 |
| 40°   | 362.8  | 319.0 | 281.7 | 250.7 | 221.9 | 192.1 | 175.0 | 157.9 | 143.0 | 129.1 | 120.6 |
| 42.5° | 325.4  | 284.9 | 251.8 | 220.9 | 195.3 | 169.7 | 153.6 | 139.8 | 128.0 | 116.3 | 108.8 |
| 45°   | 288.1  | 250.7 | 219.8 | 194.2 | 171.8 | 150.4 | 137.6 | 125.9 | 114.2 | 104.6 | 98.2  |
| 47.5° | 253.9  | 219.8 | 192.1 | 171.8 | 152.6 | 133.4 | 120.6 | 112.0 | 102.4 | 92.8  | 88.6  |
| 50°   | 220.9  | 189.9 | 167.5 | 149.4 | 132.3 | 117.4 | 107.8 | 98.2  | 90.7  | 83.2  | 80.0  |
| 52.5° | 188.9  | 162.2 | 143.0 | 128.0 | 113.1 | 100.3 | 93.9  | 86.4  | 81.1  | 75.8  | 73.6  |
| 55°   | 160.0  | 139.8 | 122.7 | 108.8 | 98.2  | 87.5  | 82.2  | 76.8  | 73.6  | 70.4  | 68.3  |
| 57.5° | 135.5  | 119.5 | 104.6 | 95.0  | 87.5  | 77.9  | 73.6  | 69.4  | 67.2  | 64.0  | 63.0  |
| 60°   | 114.2  | 100.3 | 88.6  | 81.1  | 73.6  | 68.3  | 66.2  | 63.0  | 60.8  | 58.7  | 58.7  |
| 62.5° | 95.0   | 84.3  | 75.8  | 71.5  | 64.0  | 60.8  | 58.7  | 56.6  | 55.5  | 53.3  | 54.4  |
| 65°   | 79.0   | 70.4  | 64.0  | 59.8  | 56.6  | 53.3  | 52.3  | 50.1  | 49.1  | 48.0  | 49.1  |
| 67.5° | 67.2   | 59.8  | 54.4  | 51.2  | 49.1  | 46.9  | 45.9  | 43.7  | 43.7  | 43.7  | 44.8  |
| 70°   | 55.5   | 50.1  | 46.9  | 43.7  | 41.6  | 39.5  | 39.5  | 38.4  | 38.4  | 38.4  | 38.4  |
| 72.5° | 45.9   | 41.6  | 38.4  | 37.3  | 35.2  | 34.1  | 34.1  | 34.1  | 34.1  | 33.1  | 34.1  |
| 75°   | 38.4   | 34.1  | 32.0  | 30.9  | 29.9  | 28.8  | 28.8  | 28.8  | 28.8  | 27.7  | 28.8  |
| 77.5° | 30.9   | 28.8  | 27.7  | 26.7  | 25.6  | 25.6  | 25.6  | 24.5  | 24.5  | 24.5  | 24.5  |
| 80°   | 24.5   | 23.5  | 21.3  | 21.3  | 20.3  | 20.3  | 20.3  | 20.3  | 20.3  | 20.3  | 20.3  |
| 82.5° | 19.2   | 17.1  | 17.1  | 17.1  | 16.0  | 16.0  | 16.0  | 16.0  | 14.9  | 16.0  | 16.0  |
| 85°   | 14.9   | 13.9  | 12.8  | 12.8  | 11.7  | 11.7  | 11.7  | 11.7  | 11.7  | 11.7  | 11.7  |
| 87.5° | 9.6    | 9.6   | 8.5   | 8.5   | 7.5   | 7.5   | 7.5   | 7.5   | 6.4   | 6.4   | 6.4   |
| 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°    | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 |
| 2.5°  | 584.7 | 585.8 | 569.8 | 562.3 | 559.1 | 559.1 | 538.8 | 539.9 | 532.4 | 539.9 | 528.2 |
| 5°    | 533.5 | 521.8 | 506.8 | 494.0 | 485.5 | 468.4 | 458.8 | 456.7 | 450.3 | 451.3 | 441.7 |
| 7.5°  | 481.2 | 470.5 | 448.1 | 436.4 | 423.6 | 408.7 | 395.9 | 393.7 | 386.2 | 384.1 | 376.6 |
| 10°   | 435.3 | 419.3 | 395.9 | 385.2 | 374.5 | 362.8 | 351.0 | 347.8 | 340.4 | 340.4 | 334.0 |
| 12.5° | 393.7 | 378.8 | 360.6 | 346.8 | 336.1 | 323.3 | 311.6 | 309.4 | 300.9 | 299.8 | 291.3 |
| 15°   | 357.4 | 344.6 | 325.4 | 312.6 | 300.9 | 282.8 | 276.3 | 273.1 | 264.6 | 262.5 | 256.1 |
| 17.5° | 324.4 | 310.5 | 291.3 | 278.5 | 269.9 | 256.1 | 245.4 | 241.1 | 234.7 | 231.5 | 225.1 |
| 20°   | 291.3 | 278.5 | 260.3 | 246.5 | 237.9 | 225.1 | 215.5 | 212.3 | 204.9 | 203.8 | 198.5 |
| 22.5° | 261.4 | 247.5 | 230.5 | 220.9 | 211.3 | 199.5 | 191.0 | 187.8 | 181.4 | 179.3 | 173.9 |
| 25°   | 232.6 | 220.9 | 205.9 | 198.5 | 188.9 | 179.3 | 170.7 | 167.5 | 161.1 | 159.0 | 154.7 |
| 27.5° | 207.0 | 196.3 | 184.6 | 176.1 | 169.7 | 157.9 | 150.4 | 148.3 | 141.9 | 138.7 | 134.4 |
| 30°   | 184.6 | 175.0 | 163.2 | 154.7 | 148.3 | 136.6 | 131.2 | 129.1 | 123.8 | 121.6 | 118.4 |
| 32.5° | 163.2 | 153.6 | 143.0 | 135.5 | 128.0 | 120.6 | 114.2 | 112.0 | 108.8 | 107.8 | 104.6 |
| 35°   | 143.0 | 134.4 | 124.8 | 118.4 | 112.0 | 105.6 | 101.4 | 100.3 | 97.1  | 96.0  | 92.8  |
| 37.5° | 124.8 | 117.4 | 109.9 | 104.6 | 100.3 | 95.0  | 91.8  | 89.6  | 87.5  | 86.4  | 84.3  |
| 40°   | 111.0 | 104.6 | 99.2  | 95.0  | 91.8  | 86.4  | 83.2  | 83.2  | 81.1  | 80.0  | 77.9  |
| 42.5° | 99.2  | 95.0  | 90.7  | 87.5  | 84.3  | 81.1  | 77.9  | 77.9  | 75.8  | 75.8  | 72.6  |
| 45°   | 91.8  | 88.6  | 84.3  | 81.1  | 79.0  | 76.8  | 74.7  | 74.7  | 73.6  | 72.6  | 71.5  |
| 47.5° | 83.2  | 81.1  | 77.9  | 75.8  | 73.6  | 72.6  | 70.4  | 72.6  | 71.5  | 71.5  | 71.5  |
| 50°   | 75.8  | 74.7  | 72.6  | 71.5  | 70.4  | 69.4  | 69.4  | 70.4  | 70.4  | 70.4  | 70.4  |
| 52.5° | 70.4  | 69.4  | 68.3  | 67.2  | 68.3  | 67.2  | 66.2  | 67.2  | 67.2  | 68.3  | 69.4  |
| 55°   | 66.2  | 65.1  | 65.1  | 65.1  | 66.2  | 64.0  | 64.0  | 66.2  | 66.2  | 67.2  | 67.2  |
| 57.5° | 61.9  | 61.9  | 61.9  | 61.9  | 61.9  | 61.9  | 61.9  | 63.0  | 64.0  | 66.2  | 66.2  |
| 60°   | 57.6  | 57.6  | 57.6  | 58.7  | 58.7  | 58.7  | 58.7  | 60.8  | 60.8  | 61.9  | 63.0  |
| 62.5° | 52.3  | 53.3  | 53.3  | 54.4  | 55.5  | 56.6  | 57.6  | 59.8  | 59.8  | 60.8  | 61.9  |
| 65°   | 48.0  | 49.1  | 50.1  | 51.2  | 52.3  | 53.3  | 53.3  | 55.5  | 55.5  | 56.6  | 57.6  |
| 67.5° | 43.7  | 44.8  | 44.8  | 45.9  | 46.9  | 46.9  | 46.9  | 50.1  | 50.1  | 51.2  | 52.3  |
| 70°   | 38.4  | 39.5  | 39.5  | 40.5  | 41.6  | 41.6  | 42.7  | 43.7  | 42.7  | 43.7  | 44.8  |
| 72.5° | 33.1  | 35.2  | 36.3  | 36.3  | 37.3  | 37.3  | 37.3  | 38.4  | 38.4  | 38.4  | 39.5  |
| 75°   | 28.8  | 29.9  | 29.9  | 30.9  | 32.0  | 32.0  | 32.0  | 33.1  | 34.1  | 34.1  | 34.1  |
| 77.5° | 25.6  | 25.6  | 26.7  | 26.7  | 26.7  | 27.7  | 27.7  | 28.8  | 28.8  | 28.8  | 28.8  |
| 80°   | 20.3  | 21.3  | 21.3  | 22.4  | 22.4  | 23.5  | 23.5  | 25.6  | 24.5  | 24.5  | 24.5  |
| 82.5° | 16.0  | 16.0  | 17.1  | 17.1  | 17.1  | 18.1  | 18.1  | 19.2  | 18.1  | 18.1  | 18.1  |
| 85°   | 11.7  | 11.7  | 11.7  | 11.7  | 11.7  | 11.7  | 11.7  | 12.8  | 11.7  | 12.8  | 11.7  |
| 87.5° | 6.4   | 6.4   | 6.4   | 5.3   | 5.3   | 5.3   | 5.3   | 6.4   | 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   |





TEST NUMBER: P130092

CATALOG NUMBER: HL618TAT - HLM6930 - HL6NFL - 73PS

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 630.6 | 630.6 | 630.6 | 630.6 |
| 2.5°  | 525.0 | 520.7 | 523.9 | 518.6 |
| 5°    | 437.5 | 432.1 | 434.3 | 431.1 |
| 7.5°  | 372.4 | 369.2 | 368.1 | 366.0 |
| 10°   | 328.6 | 326.5 | 326.5 | 324.4 |
| 12.5° | 289.2 | 283.8 | 284.9 | 284.9 |
| 15°   | 251.8 | 248.6 | 248.6 | 246.5 |
| 17.5° | 220.9 | 216.6 | 217.7 | 214.5 |
| 20°   | 194.2 | 189.9 | 191.0 | 189.9 |
| 22.5° | 171.8 | 167.5 | 167.5 | 165.4 |
| 25°   | 151.5 | 149.4 | 148.3 | 147.2 |
| 27.5° | 132.3 | 130.2 | 130.2 | 129.1 |
| 30°   | 117.4 | 114.2 | 115.2 | 114.2 |
| 32.5° | 104.6 | 102.4 | 102.4 | 101.4 |
| 35°   | 92.8  | 90.7  | 90.7  | 90.7  |
| 37.5° | 84.3  | 82.2  | 82.2  | 82.2  |
| 40°   | 76.8  | 75.8  | 76.8  | 76.8  |
| 42.5° | 73.6  | 71.5  | 72.6  | 72.6  |
| 45°   | 70.4  | 69.4  | 69.4  | 69.4  |
| 47.5° | 70.4  | 68.3  | 68.3  | 67.2  |
| 50°   | 71.5  | 70.4  | 70.4  | 69.4  |
| 52.5° | 70.4  | 71.5  | 73.6  | 72.6  |
| 55°   | 69.4  | 69.4  | 70.4  | 70.4  |
| 57.5° | 66.2  | 66.2  | 66.2  | 66.2  |
| 60°   | 64.0  | 64.0  | 64.0  | 64.0  |
| 62.5° | 63.0  | 63.0  | 64.0  | 63.0  |
| 65°   | 59.8  | 60.8  | 61.9  | 61.9  |
| 67.5° | 53.3  | 53.3  | 54.4  | 53.3  |
| 70°   | 46.9  | 46.9  | 46.9  | 46.9  |
| 72.5° | 39.5  | 39.5  | 40.5  | 41.6  |
| 75°   | 35.2  | 34.1  | 35.2  | 35.2  |
| 77.5° | 29.9  | 28.8  | 28.8  | 28.8  |
| 80°   | 25.6  | 24.5  | 25.6  | 26.7  |
| 82.5° | 18.1  | 17.1  | 18.1  | 17.1  |
| 85°   | 12.8  | 11.7  | 11.7  | 11.7  |
| 87.5° | 5.3   | 5.3   | 5.3   | 5.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)