

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: P130187

Luminaire Tested: **HL612ICAT - HLM6935 - HL6FL - 71PS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P130187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33457)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: HL612ICAT - HLM6935 - HL6FL - 71PS  
Description: HALO ALLSLOPE 6" 21W, Drop Opal 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: 877.0 lumens  
Efficiency: N/A  
Efficacy: 45.9 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.3 / 1.45  
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')  
CIE Type: Direct

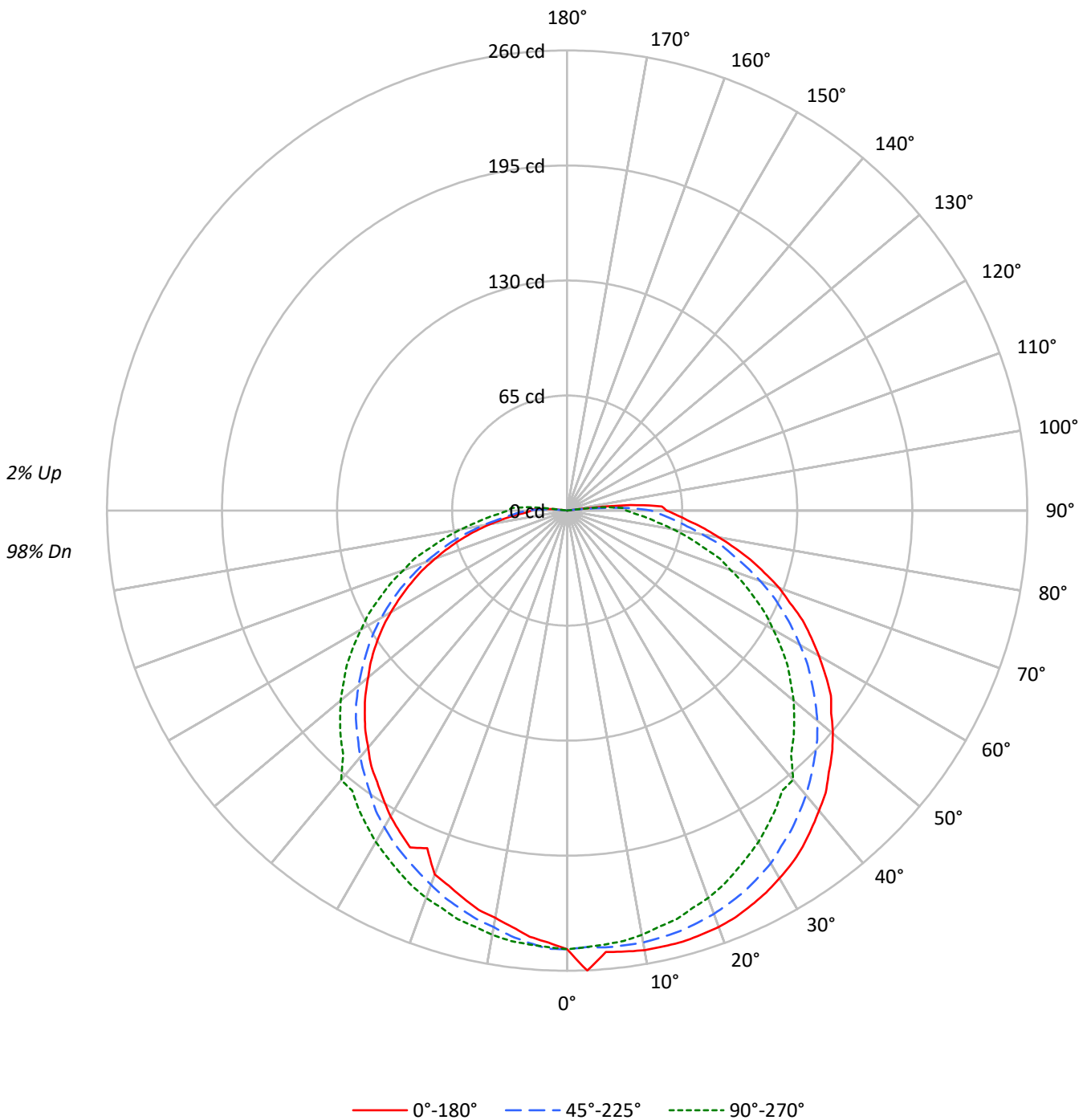
Input Watts (W): 19.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1   | 106 | 100 | 95  | 90  | 103 | 98  | 93  | 89  | 93  | 89  | 86  | 89  | 85  | 83  | 85  | 82  | 80  | 77 |
| 2   | 95  | 86  | 78  | 72  | 92  | 84  | 77  | 71  | 80  | 74  | 69  | 76  | 71  | 67  | 73  | 69  | 65  | 63 |
| 3   | 86  | 75  | 66  | 59  | 84  | 73  | 65  | 58  | 70  | 62  | 57  | 66  | 60  | 55  | 64  | 58  | 54  | 52 |
| 4   | 79  | 66  | 56  | 49  | 76  | 64  | 55  | 48  | 61  | 54  | 48  | 59  | 52  | 47  | 56  | 51  | 46  | 43 |
| 5   | 72  | 58  | 49  | 42  | 70  | 57  | 48  | 41  | 55  | 47  | 41  | 52  | 46  | 40  | 50  | 44  | 39  | 37 |
| 6   | 67  | 52  | 43  | 36  | 64  | 51  | 42  | 36  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 39  | 34  | 32 |
| 7   | 62  | 47  | 38  | 32  | 60  | 46  | 38  | 31  | 45  | 37  | 31  | 43  | 36  | 31  | 41  | 35  | 30  | 28 |
| 8   | 57  | 43  | 34  | 28  | 56  | 42  | 34  | 28  | 41  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 25 |
| 9   | 53  | 39  | 31  | 25  | 52  | 39  | 31  | 25  | 37  | 30  | 25  | 36  | 29  | 24  | 35  | 29  | 24  | 22 |
| 10  | 50  | 36  | 28  | 23  | 49  | 36  | 28  | 23  | 35  | 27  | 22  | 33  | 27  | 22  | 32  | 26  | 22  | 20 |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 14791 | 14791 | 14791 |
| 5°  | 14663 | 14411 | 14153 |
| 10° | 14602 | 14093 | 13531 |
| 15° | 14549 | 13788 | 13078 |
| 20° | 14503 | 13490 | 12673 |
| 25° | 14422 | 13185 | 12306 |
| 30° | 14336 | 12920 | 11922 |
| 35° | 14254 | 12632 | 11501 |
| 40° | 14106 | 12654 | 11144 |
| 45° | 13946 | 12072 | 10784 |
| 50° | 13823 | 11778 | 10354 |
| 55° | 13722 | 11467 | 9943  |
| 60° | 13432 | 10988 | 9410  |
| 65° | 13208 | 10518 | 8772  |
| 70° | 12852 | 9926  | 7979  |
| 75° | 12413 | 9159  | 7121  |
| 80° | 11929 | 8309  | 6019  |
| 85° | 11773 | 7600  | 4920  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 23.5   | 2.7       |
| 10°-20°   | 67.7   | 7.7       |
| 20°-30°   | 104.6  | 11.9      |
| 30°-40°   | 130.0  | 14.8      |
| 40°-50°   | 141.2  | 16.1      |
| 50°-60°   | 137.2  | 15.6      |
| 60°-70°   | 117.7  | 13.4      |
| 70°-80°   | 86.0   | 9.8       |
| 80°-90°   | 51.6   | 5.9       |
| 90°-100°  | 17.5   | 2.0       |
| 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°    | 195.7  | 22.3      |
| 0°-40°    | 325.7  | 37.1      |
| 0°-60°    | 604.1  | 68.9      |
| 0°-90°    | 859.5  | 98.0      |
| 90°-120°  | 17.5   | 2.0       |
| 90°-150°  | 17.5   | 2.0       |
| 90°-180°  | 17.0   | 1.9       |
| 0°-180°   | 877.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 248 | 248 | 248 | 248  | 248  |      |
| 5°   | 250 | 248 | 246 | 245  | 242  | 24   |
| 15°  | 252 | 246 | 239 | 233  | 227  | 71   |
| 25°  | 246 | 237 | 225 | 216  | 210  | 114  |
| 35°  | 232 | 221 | 206 | 194  | 187  | 145  |
| 45°  | 209 | 198 | 181 | 169  | 162  | 162  |
| 55°  | 182 | 169 | 152 | 138  | 132  | 162  |
| 65°  | 147 | 134 | 117 | 104  | 98   | 145  |
| 75°  | 107 | 97  | 79  | 67   | 62   | 113  |
| 85°  | 69  | 61  | 45  | 32   | 29   | 61   |
| 90°  | 56  | 48  | 33  | 23   | 20   | 31   |
| 95°  | 36  | 11  | 22  | 4    | 10   | 17   |
| 105° | 0   | 0   | 0   | 0    | 0    | 0    |
| 115° | 0   | 0   | 0   | 0    | 0    | 0    |
| 125° | 0   | 0   | 0   | 0    | 0    | 0    |
| 135° | 0   | 0   | 0   | 0    | 0    | 0    |
| 145° | 0   | 0   | 0   | 0    | 0    | 0    |
| 155° | 0   | 0   | 0   | 0    | 0    | 0    |
| 165° | 0   | 0   | 0   | 0    | 0    | 0    |
| 175° | 0   | 0   | 0   | 0    | 0    | 0    |
| 180° | 0   | 0   | 0   | 0    | 0    | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 |
| 2.5°   | 260.1 | 248.7 | 253.1 | 250.4 | 247.8 | 250.4 | 248.7 | 252.2 | 246.1 | 246.9 | 247.8 |
| 5°     | 250.4 | 250.4 | 254.8 | 252.2 | 248.7 | 251.3 | 250.4 | 253.1 | 246.9 | 247.8 | 248.7 |
| 7.5°   | 251.3 | 252.2 | 255.7 | 252.2 | 249.6 | 252.2 | 250.4 | 253.1 | 247.8 | 247.8 | 248.7 |
| 10°    | 252.2 | 252.2 | 255.7 | 253.1 | 250.4 | 252.2 | 250.4 | 253.1 | 247.8 | 247.8 | 248.7 |
| 12.5°  | 252.2 | 253.1 | 256.6 | 253.1 | 250.4 | 252.2 | 250.4 | 252.2 | 247.8 | 246.9 | 247.8 |
| 15°    | 252.2 | 257.5 | 255.7 | 252.2 | 249.6 | 251.3 | 249.6 | 252.2 | 246.1 | 246.1 | 246.9 |
| 17.5°  | 251.3 | 251.3 | 254.8 | 251.3 | 248.7 | 250.4 | 247.8 | 250.4 | 244.3 | 244.3 | 245.2 |
| 20°    | 250.4 | 250.4 | 253.1 | 249.6 | 247.8 | 248.7 | 246.1 | 248.7 | 243.4 | 242.5 | 242.5 |
| 22.5°  | 248.7 | 247.8 | 250.4 | 247.8 | 245.2 | 246.1 | 243.4 | 246.1 | 240.8 | 239.9 | 240.8 |
| 25°    | 246.1 | 246.1 | 247.8 | 245.2 | 242.5 | 243.4 | 240.8 | 242.5 | 238.1 | 237.3 | 237.3 |
| 27.5°  | 243.4 | 242.5 | 245.2 | 241.7 | 239.9 | 239.9 | 237.3 | 239.9 | 234.6 | 233.7 | 233.7 |
| 30°    | 239.9 | 239.0 | 241.7 | 238.1 | 236.4 | 236.4 | 233.7 | 235.5 | 231.1 | 230.2 | 230.2 |
| 32.5°  | 236.4 | 234.6 | 237.3 | 233.7 | 232.0 | 232.0 | 229.4 | 231.1 | 225.8 | 225.0 | 225.0 |
| 35°    | 232.0 | 230.2 | 232.0 | 228.5 | 227.6 | 226.7 | 224.1 | 225.8 | 221.4 | 220.6 | 219.7 |
| 37.5°  | 226.7 | 225.8 | 226.7 | 224.1 | 222.3 | 222.3 | 218.8 | 220.6 | 216.2 | 215.3 | 215.3 |
| 40°    | 221.4 | 220.6 | 221.4 | 218.8 | 217.1 | 216.2 | 213.5 | 215.3 | 210.9 | 210.0 | 209.1 |
| 42.5°  | 216.2 | 214.4 | 215.3 | 212.7 | 210.9 | 210.9 | 208.3 | 208.3 | 204.7 | 203.9 | 203.9 |
| 45°    | 209.1 | 208.3 | 209.1 | 206.5 | 204.7 | 204.7 | 201.2 | 202.1 | 198.6 | 197.7 | 196.8 |
| 47.5°  | 203.0 | 202.1 | 203.0 | 200.4 | 198.6 | 197.7 | 195.1 | 196.0 | 192.4 | 191.6 | 190.7 |
| 50°    | 196.0 | 195.1 | 195.1 | 193.3 | 191.6 | 190.7 | 188.1 | 188.1 | 185.4 | 184.5 | 183.7 |
| 52.5°  | 188.1 | 187.2 | 188.1 | 185.4 | 184.5 | 182.8 | 181.0 | 180.1 | 178.4 | 176.6 | 175.8 |
| 55°    | 181.9 | 180.1 | 180.1 | 177.5 | 176.6 | 175.8 | 173.1 | 172.2 | 170.5 | 168.7 | 167.8 |
| 57.5°  | 173.1 | 171.4 | 171.4 | 168.7 | 168.7 | 167.0 | 165.2 | 164.3 | 161.7 | 160.8 | 159.9 |
| 60°    | 164.3 | 163.4 | 162.6 | 160.8 | 159.9 | 159.1 | 156.4 | 155.5 | 153.8 | 152.0 | 151.1 |
| 62.5°  | 155.5 | 154.7 | 153.8 | 152.0 | 152.0 | 150.3 | 147.6 | 146.8 | 145.0 | 143.2 | 142.4 |
| 65°    | 146.8 | 145.0 | 145.0 | 143.2 | 142.4 | 140.6 | 138.0 | 138.0 | 136.2 | 134.4 | 133.6 |
| 67.5°  | 136.2 | 136.2 | 135.3 | 133.6 | 132.7 | 131.8 | 129.2 | 125.7 | 126.5 | 125.7 | 123.9 |
| 70°    | 127.4 | 125.7 | 124.8 | 123.9 | 123.9 | 122.1 | 119.5 | 116.9 | 116.9 | 116.0 | 114.2 |
| 72.5°  | 116.9 | 116.0 | 115.1 | 114.2 | 113.4 | 112.5 | 109.8 | 109.0 | 107.2 | 106.3 | 104.6 |
| 75°    | 107.2 | 106.3 | 105.5 | 104.6 | 103.7 | 102.8 | 100.2 | 99.3  | 97.5  | 96.7  | 94.9  |
| 77.5°  | 96.7  | 95.8  | 95.8  | 94.0  | 94.0  | 93.1  | 90.5  | 89.6  | 87.9  | 88.8  | 85.2  |
| 80°    | 87.0  | 86.1  | 86.1  | 84.4  | 84.4  | 82.6  | 80.8  | 80.0  | 78.2  | 77.3  | 75.6  |
| 82.5°  | 78.2  | 77.3  | 76.5  | 75.6  | 75.6  | 73.8  | 72.1  | 70.3  | 69.4  | 68.5  | 66.8  |
| 85°    | 69.4  | 68.5  | 68.5  | 66.8  | 66.8  | 65.0  | 63.3  | 62.4  | 61.5  | 60.6  | 58.9  |
| 87.5°  | 62.4  | 61.5  | 60.6  | 59.8  | 59.8  | 58.9  | 56.2  | 55.4  | 54.5  | 53.6  | 51.8  |
| 90°    | 56.2  | 55.4  | 55.4  | 54.5  | 53.6  | 52.7  | 51.0  | 49.2  | 48.3  | 47.5  | 45.7  |
| 92.5°  | 53.6  | 52.7  | 52.7  | 50.1  | 49.2  | 46.6  | 43.1  | 39.5  | 36.0  | 34.3  | 34.3  |
| 95°    | 36.0  | 35.2  | 36.0  | 32.5  | 30.8  | 25.5  | 21.1  | 17.6  | 14.1  | 11.4  | 11.4  |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 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):**

|        | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 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°     | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 |
| 2.5°   | 246.9 | 249.6 | 245.2 | 247.8 | 250.4 | 248.7 | 250.4 | 246.9 | 246.1 | 245.2 | 246.1 |
| 5°     | 246.9 | 249.6 | 246.1 | 247.8 | 250.4 | 247.8 | 250.4 | 246.1 | 245.2 | 244.3 | 245.2 |
| 7.5°   | 246.9 | 249.6 | 245.2 | 246.9 | 250.4 | 246.9 | 248.7 | 245.2 | 243.4 | 242.5 | 242.5 |
| 10°    | 246.9 | 248.7 | 244.3 | 246.1 | 248.7 | 245.2 | 246.9 | 243.4 | 241.7 | 239.9 | 240.8 |
| 12.5°  | 245.2 | 246.9 | 243.4 | 244.3 | 246.9 | 243.4 | 245.2 | 240.8 | 239.0 | 238.1 | 238.1 |
| 15°    | 244.3 | 246.1 | 241.7 | 242.5 | 247.8 | 240.8 | 242.5 | 239.0 | 236.4 | 234.6 | 234.6 |
| 17.5°  | 241.7 | 237.3 | 239.0 | 239.9 | 242.5 | 238.1 | 239.9 | 235.5 | 233.7 | 232.0 | 231.1 |
| 20°    | 239.9 | 240.8 | 237.3 | 237.3 | 239.9 | 235.5 | 236.4 | 232.9 | 234.6 | 229.4 | 227.6 |
| 22.5°  | 237.3 | 237.3 | 233.7 | 233.7 | 237.3 | 232.0 | 232.9 | 229.4 | 226.7 | 225.0 | 224.1 |
| 25°    | 233.7 | 234.6 | 231.1 | 231.1 | 233.7 | 228.5 | 229.4 | 225.0 | 222.3 | 221.4 | 219.7 |
| 27.5°  | 230.2 | 230.2 | 226.7 | 226.7 | 229.4 | 224.1 | 224.1 | 220.6 | 217.9 | 217.1 | 215.3 |
| 30°    | 225.8 | 225.8 | 222.3 | 222.3 | 225.0 | 218.8 | 219.7 | 216.2 | 213.5 | 211.8 | 210.0 |
| 32.5°  | 220.6 | 220.6 | 217.9 | 217.1 | 219.7 | 214.4 | 214.4 | 210.9 | 211.8 | 206.5 | 204.7 |
| 35°    | 216.2 | 216.2 | 212.7 | 211.8 | 214.4 | 208.3 | 208.3 | 205.6 | 202.1 | 201.2 | 199.5 |
| 37.5°  | 210.9 | 210.0 | 207.4 | 206.5 | 208.3 | 202.1 | 203.0 | 199.5 | 196.8 | 195.1 | 193.3 |
| 40°    | 205.6 | 204.7 | 202.1 | 201.2 | 203.0 | 196.8 | 196.8 | 198.6 | 190.7 | 193.3 | 187.2 |
| 42.5°  | 198.6 | 198.6 | 196.0 | 194.2 | 196.0 | 189.8 | 190.7 | 187.2 | 183.7 | 182.8 | 180.1 |
| 45°    | 192.4 | 191.6 | 189.8 | 188.1 | 188.9 | 183.7 | 183.7 | 181.0 | 177.5 | 175.8 | 174.0 |
| 47.5°  | 186.3 | 185.4 | 181.9 | 181.0 | 181.9 | 176.6 | 176.6 | 174.0 | 170.5 | 169.6 | 167.0 |
| 50°    | 179.3 | 178.4 | 175.8 | 174.0 | 174.9 | 169.6 | 169.6 | 167.0 | 163.4 | 161.7 | 159.9 |
| 52.5°  | 171.4 | 170.5 | 167.8 | 166.1 | 167.0 | 161.7 | 161.7 | 159.1 | 158.2 | 153.8 | 152.0 |
| 55°    | 164.3 | 162.6 | 159.9 | 158.2 | 159.1 | 153.8 | 153.8 | 152.0 | 147.6 | 146.8 | 144.1 |
| 57.5°  | 156.4 | 154.7 | 152.0 | 150.3 | 151.1 | 145.9 | 145.9 | 143.2 | 139.7 | 138.0 | 136.2 |
| 60°    | 147.6 | 145.9 | 144.1 | 142.4 | 142.4 | 138.0 | 137.1 | 134.4 | 130.9 | 130.1 | 127.4 |
| 62.5°  | 138.8 | 137.1 | 135.3 | 133.6 | 133.6 | 129.2 | 128.3 | 126.5 | 123.0 | 121.3 | 118.6 |
| 65°    | 130.1 | 128.3 | 125.7 | 123.9 | 123.9 | 119.5 | 119.5 | 116.9 | 113.4 | 112.5 | 109.8 |
| 67.5°  | 120.4 | 119.5 | 116.9 | 115.1 | 115.1 | 110.7 | 109.8 | 108.1 | 104.6 | 102.8 | 101.1 |
| 70°    | 111.6 | 109.8 | 107.2 | 105.5 | 105.5 | 101.9 | 101.1 | 98.4  | 95.8  | 94.0  | 91.4  |
| 72.5°  | 101.9 | 100.2 | 97.5  | 96.7  | 95.8  | 92.3  | 91.4  | 90.5  | 86.1  | 85.2  | 82.6  |
| 75°    | 92.3  | 90.5  | 88.8  | 87.0  | 86.1  | 82.6  | 81.7  | 79.1  | 76.5  | 75.6  | 72.9  |
| 77.5°  | 82.6  | 80.8  | 79.1  | 77.3  | 76.5  | 72.9  | 72.1  | 70.3  | 67.7  | 65.9  | 64.1  |
| 80°    | 72.9  | 71.2  | 69.4  | 67.7  | 66.8  | 64.1  | 62.4  | 60.6  | 58.0  | 58.9  | 54.5  |
| 82.5°  | 65.0  | 62.4  | 60.6  | 58.9  | 58.0  | 55.4  | 53.6  | 51.8  | 49.2  | 48.3  | 46.6  |
| 85°    | 57.1  | 54.5  | 52.7  | 51.0  | 50.1  | 47.5  | 45.7  | 44.8  | 42.2  | 41.3  | 38.7  |
| 87.5°  | 50.1  | 47.5  | 46.6  | 44.8  | 43.1  | 40.4  | 39.5  | 37.8  | 35.2  | 34.3  | 32.5  |
| 90°    | 43.9  | 42.2  | 41.3  | 39.5  | 37.8  | 35.2  | 34.3  | 33.4  | 30.8  | 29.9  | 28.1  |
| 92.5°  | 34.3  | 35.2  | 35.2  | 34.3  | 35.2  | 33.4  | 32.5  | 31.6  | 29.9  | 28.1  | 26.4  |
| 95°    | 13.2  | 15.8  | 17.6  | 19.3  | 22.0  | 22.0  | 22.0  | 22.0  | 20.2  | 18.5  | 16.7  |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |





TEST NUMBER: P130187

CATALOG NUMBER: HL612ICAT - HLM6935 - HL6FL - 71PS

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |



TEST NUMBER: P130187

CATALOG NUMBER: HL612ICAT - HLM6935 - HL6FL - 71PS

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 | 247.8 |
| 2.5°   | 248.7 | 243.4 | 243.4 | 246.1 | 244.3 | 247.8 | 246.9 | 246.9 | 246.1 | 245.2 | 239.9 |
| 5°     | 246.9 | 241.7 | 241.7 | 244.3 | 241.7 | 245.2 | 244.3 | 244.3 | 243.4 | 242.5 | 240.8 |
| 7.5°   | 245.2 | 239.9 | 239.0 | 241.7 | 239.0 | 242.5 | 241.7 | 240.8 | 239.9 | 239.0 | 237.3 |
| 10°    | 242.5 | 237.3 | 236.4 | 239.0 | 235.5 | 239.0 | 238.1 | 237.3 | 236.4 | 235.5 | 233.7 |
| 12.5°  | 239.9 | 234.6 | 233.7 | 235.5 | 232.9 | 236.4 | 235.5 | 234.6 | 233.7 | 232.0 | 230.2 |
| 15°    | 236.4 | 231.1 | 231.1 | 232.9 | 230.2 | 232.9 | 232.0 | 231.1 | 230.2 | 228.5 | 226.7 |
| 17.5°  | 233.7 | 227.6 | 227.6 | 229.4 | 225.8 | 229.4 | 227.6 | 226.7 | 225.8 | 225.0 | 222.3 |
| 20°    | 230.2 | 224.1 | 224.1 | 225.8 | 222.3 | 225.0 | 224.1 | 223.2 | 222.3 | 220.6 | 218.8 |
| 22.5°  | 225.8 | 220.6 | 219.7 | 221.4 | 217.9 | 220.6 | 219.7 | 218.8 | 217.9 | 217.1 | 215.3 |
| 25°    | 221.4 | 216.2 | 215.3 | 217.1 | 213.5 | 216.2 | 215.3 | 214.4 | 213.5 | 211.8 | 210.0 |
| 27.5°  | 217.1 | 211.8 | 210.9 | 212.7 | 209.1 | 211.8 | 210.9 | 209.1 | 208.3 | 207.4 | 205.6 |
| 30°    | 211.8 | 206.5 | 205.6 | 208.3 | 203.9 | 206.5 | 204.7 | 204.7 | 203.0 | 202.1 | 200.4 |
| 32.5°  | 206.5 | 201.2 | 200.4 | 202.1 | 198.6 | 201.2 | 199.5 | 203.9 | 196.8 | 196.0 | 194.2 |
| 35°    | 201.2 | 196.0 | 194.2 | 196.0 | 192.4 | 194.2 | 194.2 | 192.4 | 191.6 | 189.8 | 188.1 |
| 37.5°  | 194.2 | 189.8 | 188.9 | 189.8 | 186.3 | 188.1 | 187.2 | 186.3 | 185.4 | 184.5 | 181.9 |
| 40°    | 188.1 | 183.7 | 182.8 | 183.7 | 180.1 | 181.9 | 181.0 | 181.0 | 179.3 | 178.4 | 176.6 |
| 42.5°  | 181.9 | 176.6 | 175.8 | 176.6 | 174.0 | 174.9 | 174.0 | 174.0 | 172.2 | 171.4 | 169.6 |
| 45°    | 174.9 | 170.5 | 169.6 | 170.5 | 167.0 | 168.7 | 167.8 | 167.0 | 165.2 | 164.3 | 162.6 |
| 47.5°  | 167.8 | 163.4 | 162.6 | 163.4 | 159.9 | 161.7 | 160.8 | 159.9 | 158.2 | 157.3 | 155.5 |
| 50°    | 159.9 | 156.4 | 155.5 | 156.4 | 152.9 | 153.8 | 152.9 | 152.9 | 151.1 | 150.3 | 148.5 |
| 52.5°  | 152.9 | 148.5 | 147.6 | 148.5 | 145.0 | 145.9 | 145.9 | 145.0 | 143.2 | 142.4 | 141.5 |
| 55°    | 145.0 | 141.5 | 140.6 | 140.6 | 137.1 | 138.0 | 137.1 | 137.1 | 135.3 | 134.4 | 133.6 |
| 57.5°  | 137.1 | 132.7 | 131.8 | 131.8 | 129.2 | 130.1 | 129.2 | 129.2 | 127.4 | 126.5 | 124.8 |
| 60°    | 128.3 | 124.8 | 123.9 | 123.9 | 120.4 | 121.3 | 120.4 | 120.4 | 118.6 | 117.8 | 116.0 |
| 62.5°  | 119.5 | 116.0 | 115.1 | 115.1 | 111.6 | 112.5 | 112.5 | 111.6 | 109.8 | 109.0 | 108.1 |
| 65°    | 110.7 | 107.2 | 106.3 | 105.5 | 102.8 | 103.7 | 102.8 | 101.9 | 101.1 | 100.2 | 99.3  |
| 67.5°  | 101.1 | 98.4  | 99.3  | 96.7  | 94.0  | 94.0  | 94.0  | 93.1  | 91.4  | 91.4  | 90.5  |
| 70°    | 92.3  | 88.8  | 87.9  | 87.0  | 84.4  | 85.2  | 84.4  | 83.5  | 82.6  | 81.7  | 80.8  |
| 72.5°  | 82.6  | 80.0  | 78.2  | 78.2  | 75.6  | 75.6  | 75.6  | 74.7  | 72.9  | 72.9  | 72.1  |
| 75°    | 72.9  | 70.3  | 69.4  | 68.5  | 65.9  | 66.8  | 65.0  | 65.0  | 63.3  | 63.3  | 62.4  |
| 77.5°  | 63.3  | 60.6  | 60.6  | 58.9  | 57.1  | 57.1  | 56.2  | 56.2  | 55.4  | 54.5  | 53.6  |
| 80°    | 53.6  | 51.8  | 51.0  | 50.1  | 48.3  | 48.3  | 47.5  | 46.6  | 45.7  | 45.7  | 44.8  |
| 82.5°  | 45.7  | 43.9  | 43.1  | 41.3  | 40.4  | 39.5  | 39.5  | 38.7  | 37.8  | 37.8  | 36.9  |
| 85°    | 37.8  | 36.0  | 35.2  | 34.3  | 33.4  | 32.5  | 31.6  | 31.6  | 30.8  | 29.9  | 29.9  |
| 87.5°  | 31.6  | 30.8  | 29.9  | 29.0  | 27.2  | 27.2  | 26.4  | 26.4  | 25.5  | 24.6  | 23.7  |
| 90°    | 27.2  | 26.4  | 25.5  | 24.6  | 23.7  | 22.8  | 22.0  | 22.0  | 21.1  | 21.1  | 20.2  |
| 92.5°  | 24.6  | 22.0  | 19.3  | 18.5  | 15.8  | 15.8  | 14.9  | 15.8  | 15.8  | 16.7  | 17.6  |
| 95°    | 14.1  | 11.4  | 8.8   | 7.0   | 5.3   | 4.4   | 4.4   | 5.3   | 6.2   | 7.9   | 9.7   |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



TEST NUMBER: P130187

CATALOG NUMBER: HL612ICAT - HLM6935 - HL6FL - 71PS

**CANDELA DISTRIBUTION (continued):**

|        | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



TEST NUMBER: P130187

CATALOG NUMBER: HL612ICAT - HLM6935 - HL6FL - 71PS

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|
| 0°     | 247.8 | 247.8 | 247.8 | 247.8 |
| 2.5°   | 247.8 | 249.6 | 246.9 | 244.3 |
| 5°     | 245.2 | 246.9 | 244.3 | 241.7 |
| 7.5°   | 241.7 | 242.5 | 240.8 | 237.3 |
| 10°    | 238.1 | 239.0 | 236.4 | 233.7 |
| 12.5°  | 234.6 | 235.5 | 233.7 | 231.1 |
| 15°    | 231.1 | 232.0 | 229.4 | 226.7 |
| 17.5°  | 226.7 | 227.6 | 225.8 | 222.3 |
| 20°    | 222.3 | 224.1 | 221.4 | 218.8 |
| 22.5°  | 217.9 | 219.7 | 217.1 | 206.5 |
| 25°    | 213.5 | 214.4 | 212.7 | 210.0 |
| 27.5°  | 208.3 | 209.1 | 207.4 | 204.7 |
| 30°    | 203.0 | 203.9 | 202.1 | 199.5 |
| 32.5°  | 196.8 | 197.7 | 196.8 | 193.3 |
| 35°    | 190.7 | 191.6 | 189.8 | 187.2 |
| 37.5°  | 184.5 | 185.4 | 183.7 | 181.9 |
| 40°    | 178.4 | 179.3 | 177.5 | 174.9 |
| 42.5°  | 171.4 | 172.2 | 170.5 | 168.7 |
| 45°    | 164.3 | 165.2 | 163.4 | 161.7 |
| 47.5°  | 159.9 | 157.3 | 156.4 | 154.7 |
| 50°    | 150.3 | 150.3 | 149.4 | 146.8 |
| 52.5°  | 142.4 | 142.4 | 141.5 | 139.7 |
| 55°    | 136.2 | 134.4 | 133.6 | 131.8 |
| 57.5°  | 125.7 | 125.7 | 124.8 | 123.9 |
| 60°    | 117.8 | 116.9 | 116.9 | 115.1 |
| 62.5°  | 109.0 | 109.0 | 109.0 | 106.3 |
| 65°    | 99.3  | 100.2 | 99.3  | 97.5  |
| 67.5°  | 91.4  | 90.5  | 90.5  | 88.8  |
| 70°    | 81.7  | 80.8  | 80.8  | 79.1  |
| 72.5°  | 72.1  | 72.1  | 72.1  | 70.3  |
| 75°    | 62.4  | 62.4  | 62.4  | 61.5  |
| 77.5°  | 53.6  | 53.6  | 53.6  | 52.7  |
| 80°    | 44.8  | 44.8  | 43.9  | 43.9  |
| 82.5°  | 36.9  | 36.0  | 36.9  | 36.0  |
| 85°    | 29.9  | 29.0  | 29.9  | 29.0  |
| 87.5°  | 23.7  | 23.7  | 23.7  | 22.8  |
| 90°    | 20.2  | 20.2  | 20.2  | 20.2  |
| 92.5°  | 18.5  | 18.5  | 19.3  | 18.5  |
| 95°    | 10.5  | 10.5  | 10.5  | 10.5  |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 0.0   | 0.0   | 0.0   | 0.0   |



TEST NUMBER: P130187

CATALOG NUMBER: HL612ICAT - HLM6935 - HL6FL - 71PS

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° |
|--------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  |

(END OF REPORT)