

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: P130049

Luminaire Tested: **HL618TAT - HLM6935 - HL6FL - 71PS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130049
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: HL618TAT - HLM6935 - HL6FL - 71PS
Description: HALO ALLSLOPE 6" 30W, 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: 1145.1 lumens
Efficiency: N/A
Efficacy: 41.5 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

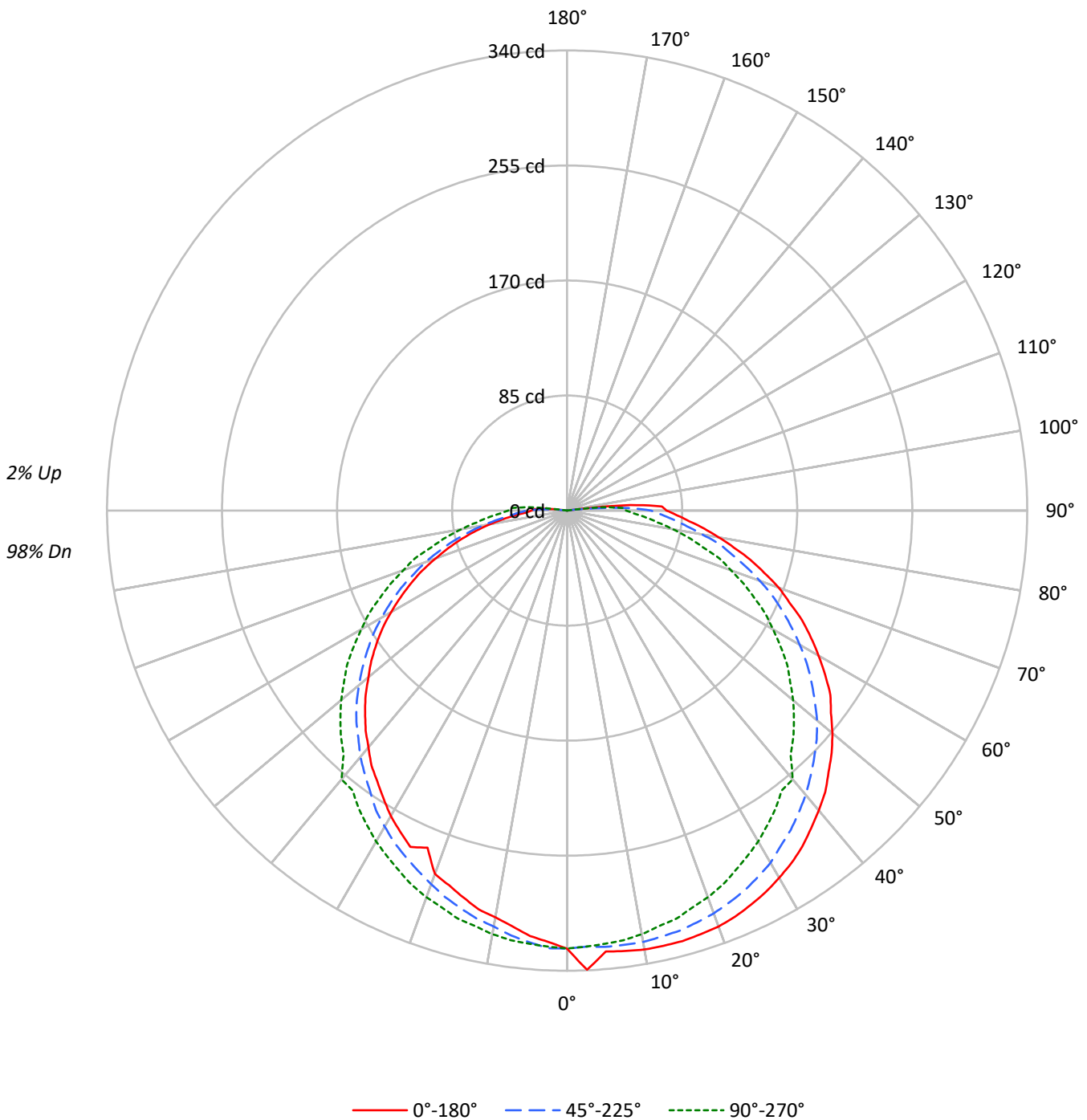
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P130049

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Luminous Intensity Polar Plot





TEST NUMBER: P130049

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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° | 19316 | 19316 | 19316 |
| 5° | 19148 | 18814 | 18475 |
| 10° | 19066 | 18400 | 17671 |
| 15° | 18997 | 18005 | 17076 |
| 20° | 18940 | 17613 | 16548 |
| 25° | 18828 | 17211 | 16068 |
| 30° | 18722 | 16869 | 15567 |
| 35° | 18610 | 16496 | 15015 |
| 40° | 18426 | 16521 | 14546 |
| 45° | 18214 | 15766 | 14079 |
| 50° | 18048 | 15375 | 13513 |
| 55° | 17917 | 14975 | 12983 |
| 60° | 17545 | 14356 | 12288 |
| 65° | 17238 | 13730 | 11462 |
| 70° | 16786 | 12963 | 10421 |
| 75° | 16211 | 11962 | 9298 |
| 80° | 15576 | 10860 | 7870 |
| 85° | 15370 | 9924 | 6429 |



TEST NUMBER: P130049

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 30.6 | 2.7 |
| 10°-20° | 88.4 | 7.7 |
| 20°-30° | 136.6 | 11.9 |
| 30°-40° | 169.7 | 14.8 |
| 40°-50° | 184.4 | 16.1 |
| 50°-60° | 179.1 | 15.6 |
| 60°-70° | 153.7 | 13.4 |
| 70°-80° | 112.4 | 9.8 |
| 80°-90° | 67.4 | 5.9 |
| 90°-100° | 22.8 | 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° | 255.6 | 22.3 |
| 0°-40° | 425.3 | 37.1 |
| 0°-60° | 788.8 | 68.9 |
| 0°-90° | 1122.3 | 98.0 |
| 90°-120° | 22.8 | 2.0 |
| 90°-150° | 22.8 | 2.0 |
| 90°-180° | 23.0 | 2.0 |
| 0°-180° | 1145.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0° | 324 | 324 | 324 | 324 | 324 | |
| 5° | 327 | 324 | 321 | 320 | 316 | 31 |
| 15° | 329 | 321 | 312 | 304 | 296 | 93 |
| 25° | 321 | 310 | 294 | 282 | 274 | 148 |
| 35° | 303 | 288 | 268 | 254 | 244 | 190 |
| 45° | 273 | 258 | 236 | 220 | 211 | 211 |
| 55° | 238 | 220 | 198 | 180 | 172 | 211 |
| 65° | 192 | 176 | 153 | 135 | 127 | 189 |
| 75° | 140 | 126 | 103 | 87 | 80 | 148 |
| 85° | 91 | 79 | 58 | 42 | 38 | 79 |
| 90° | 73 | 62 | 44 | 30 | 26 | 41 |
| 95° | 47 | 15 | 29 | 6 | 14 | 22 |
| 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 |



TEST NUMBER: P130049

CATALOG NUMBER: HL618TAT - HLM6935 - HL6FL - 71PS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 |
| 2.5° | 339.6 | 324.7 | 330.5 | 327.0 | 323.6 | 327.0 | 324.7 | 329.3 | 321.3 | 322.4 | 323.6 |
| 5° | 327.0 | 327.0 | 332.8 | 329.3 | 324.7 | 328.2 | 327.0 | 330.5 | 322.4 | 323.6 | 324.7 |
| 7.5° | 328.2 | 329.3 | 333.9 | 329.3 | 325.9 | 329.3 | 327.0 | 330.5 | 323.6 | 323.6 | 324.7 |
| 10° | 329.3 | 329.3 | 333.9 | 330.5 | 327.0 | 329.3 | 327.0 | 330.5 | 323.6 | 323.6 | 324.7 |
| 12.5° | 329.3 | 330.5 | 335.1 | 330.5 | 327.0 | 329.3 | 327.0 | 329.3 | 323.6 | 322.4 | 323.6 |
| 15° | 329.3 | 336.2 | 333.9 | 329.3 | 325.9 | 328.2 | 325.9 | 329.3 | 321.3 | 321.3 | 322.4 |
| 17.5° | 328.2 | 328.2 | 332.8 | 328.2 | 324.7 | 327.0 | 323.6 | 327.0 | 319.0 | 319.0 | 320.1 |
| 20° | 327.0 | 327.0 | 330.5 | 325.9 | 323.6 | 324.7 | 321.3 | 324.7 | 317.8 | 316.7 | 316.7 |
| 22.5° | 324.7 | 323.6 | 327.0 | 323.6 | 320.1 | 321.3 | 317.8 | 321.3 | 314.4 | 313.3 | 314.4 |
| 25° | 321.3 | 321.3 | 323.6 | 320.1 | 316.7 | 317.8 | 314.4 | 316.7 | 311.0 | 309.8 | 309.8 |
| 27.5° | 317.8 | 316.7 | 320.1 | 315.5 | 313.3 | 313.3 | 309.8 | 313.3 | 306.4 | 305.2 | 305.2 |
| 30° | 313.3 | 312.1 | 315.5 | 311.0 | 308.7 | 308.7 | 305.2 | 307.5 | 301.8 | 300.6 | 300.6 |
| 32.5° | 308.7 | 306.4 | 309.8 | 305.2 | 302.9 | 302.9 | 299.5 | 301.8 | 294.9 | 293.7 | 293.7 |
| 35° | 302.9 | 300.6 | 302.9 | 298.3 | 297.2 | 296.0 | 292.6 | 294.9 | 289.2 | 288.0 | 286.9 |
| 37.5° | 296.0 | 294.9 | 296.0 | 292.6 | 290.3 | 290.3 | 285.7 | 288.0 | 282.3 | 281.1 | 281.1 |
| 40° | 289.2 | 288.0 | 289.2 | 285.7 | 283.4 | 282.3 | 278.8 | 281.1 | 275.4 | 274.2 | 273.1 |
| 42.5° | 282.3 | 280.0 | 281.1 | 277.7 | 275.4 | 275.4 | 271.9 | 271.9 | 267.4 | 266.2 | 266.2 |
| 45° | 273.1 | 271.9 | 273.1 | 269.6 | 267.4 | 267.4 | 262.8 | 263.9 | 259.3 | 258.2 | 257.0 |
| 47.5° | 265.1 | 263.9 | 265.1 | 261.6 | 259.3 | 258.2 | 254.7 | 255.9 | 251.3 | 250.1 | 249.0 |
| 50° | 255.9 | 254.7 | 254.7 | 252.4 | 250.1 | 249.0 | 245.6 | 245.6 | 242.1 | 241.0 | 239.8 |
| 52.5° | 245.6 | 244.4 | 245.6 | 242.1 | 241.0 | 238.7 | 236.4 | 235.2 | 232.9 | 230.6 | 229.5 |
| 55° | 237.5 | 235.2 | 235.2 | 231.8 | 230.6 | 229.5 | 226.0 | 224.9 | 222.6 | 220.3 | 219.2 |
| 57.5° | 226.0 | 223.8 | 223.8 | 220.3 | 220.3 | 218.0 | 215.7 | 214.6 | 211.1 | 210.0 | 208.8 |
| 60° | 214.6 | 213.4 | 212.3 | 210.0 | 208.8 | 207.7 | 204.2 | 203.1 | 200.8 | 198.5 | 197.4 |
| 62.5° | 203.1 | 202.0 | 200.8 | 198.5 | 198.5 | 196.2 | 192.8 | 191.6 | 189.3 | 187.0 | 185.9 |
| 65° | 191.6 | 189.3 | 189.3 | 187.0 | 185.9 | 183.6 | 180.1 | 180.1 | 177.9 | 175.6 | 174.4 |
| 67.5° | 177.9 | 177.9 | 176.7 | 174.4 | 173.3 | 172.1 | 168.7 | 164.1 | 165.2 | 164.1 | 161.8 |
| 70° | 166.4 | 164.1 | 162.9 | 161.8 | 161.8 | 159.5 | 156.1 | 152.6 | 152.6 | 151.5 | 149.2 |
| 72.5° | 152.6 | 151.5 | 150.3 | 149.2 | 148.0 | 146.9 | 143.4 | 142.3 | 140.0 | 138.8 | 136.5 |
| 75° | 140.0 | 138.8 | 137.7 | 136.5 | 135.4 | 134.3 | 130.8 | 129.7 | 127.4 | 126.2 | 123.9 |
| 77.5° | 126.2 | 125.1 | 125.1 | 122.8 | 122.8 | 121.6 | 118.2 | 117.0 | 114.7 | 115.9 | 111.3 |
| 80° | 113.6 | 112.4 | 112.4 | 110.2 | 110.2 | 107.9 | 105.6 | 104.4 | 102.1 | 101.0 | 98.7 |
| 82.5° | 102.1 | 101.0 | 99.8 | 98.7 | 98.7 | 96.4 | 94.1 | 91.8 | 90.6 | 89.5 | 87.2 |
| 85° | 90.6 | 89.5 | 89.5 | 87.2 | 87.2 | 84.9 | 82.6 | 81.5 | 80.3 | 79.2 | 76.9 |
| 87.5° | 81.5 | 80.3 | 79.2 | 78.0 | 78.0 | 76.9 | 73.4 | 72.3 | 71.1 | 70.0 | 67.7 |
| 90° | 73.4 | 72.3 | 72.3 | 71.1 | 70.0 | 68.8 | 66.6 | 64.3 | 63.1 | 62.0 | 59.7 |
| 92.5° | 70.0 | 68.8 | 68.8 | 65.4 | 64.3 | 60.8 | 56.2 | 51.6 | 47.0 | 44.8 | 44.8 |
| 95° | 47.0 | 45.9 | 47.0 | 42.5 | 40.2 | 33.3 | 27.5 | 22.9 | 18.4 | 14.9 | 14.9 |
| 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: P130049

CATALOG NUMBER: HL618TAT - HLM6935 - HL6FL - 71PS

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° | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 |
| 2.5° | 322.4 | 325.9 | 320.1 | 323.6 | 327.0 | 324.7 | 327.0 | 322.4 | 321.3 | 320.1 | 321.3 |
| 5° | 322.4 | 325.9 | 321.3 | 323.6 | 327.0 | 323.6 | 327.0 | 321.3 | 320.1 | 319.0 | 320.1 |
| 7.5° | 322.4 | 325.9 | 320.1 | 322.4 | 327.0 | 322.4 | 324.7 | 320.1 | 317.8 | 316.7 | 316.7 |
| 10° | 322.4 | 324.7 | 319.0 | 321.3 | 324.7 | 320.1 | 322.4 | 317.8 | 315.5 | 313.3 | 314.4 |
| 12.5° | 320.1 | 322.4 | 317.8 | 319.0 | 322.4 | 317.8 | 320.1 | 314.4 | 312.1 | 311.0 | 311.0 |
| 15° | 319.0 | 321.3 | 315.5 | 316.7 | 323.6 | 314.4 | 316.7 | 312.1 | 308.7 | 306.4 | 306.4 |
| 17.5° | 315.5 | 309.8 | 312.1 | 313.3 | 316.7 | 311.0 | 313.3 | 307.5 | 305.2 | 302.9 | 301.8 |
| 20° | 313.3 | 314.4 | 309.8 | 309.8 | 313.3 | 307.5 | 308.7 | 304.1 | 306.4 | 299.5 | 297.2 |
| 22.5° | 309.8 | 309.8 | 305.2 | 305.2 | 309.8 | 302.9 | 304.1 | 299.5 | 296.0 | 293.7 | 292.6 |
| 25° | 305.2 | 306.4 | 301.8 | 301.8 | 305.2 | 298.3 | 299.5 | 293.7 | 290.3 | 289.2 | 286.9 |
| 27.5° | 300.6 | 300.6 | 296.0 | 296.0 | 299.5 | 292.6 | 292.6 | 288.0 | 284.6 | 283.4 | 281.1 |
| 30° | 294.9 | 294.9 | 290.3 | 290.3 | 293.7 | 285.7 | 286.9 | 282.3 | 278.8 | 276.5 | 274.2 |
| 32.5° | 288.0 | 288.0 | 284.6 | 283.4 | 286.9 | 280.0 | 280.0 | 275.4 | 276.5 | 269.6 | 267.4 |
| 35° | 282.3 | 282.3 | 277.7 | 276.5 | 280.0 | 271.9 | 271.9 | 268.5 | 263.9 | 262.8 | 260.5 |
| 37.5° | 275.4 | 274.2 | 270.8 | 269.6 | 271.9 | 263.9 | 265.1 | 260.5 | 257.0 | 254.7 | 252.4 |
| 40° | 268.5 | 267.4 | 263.9 | 262.8 | 265.1 | 257.0 | 257.0 | 259.3 | 249.0 | 252.4 | 244.4 |
| 42.5° | 259.3 | 259.3 | 255.9 | 253.6 | 255.9 | 247.8 | 249.0 | 244.4 | 239.8 | 238.7 | 235.2 |
| 45° | 251.3 | 250.1 | 247.8 | 245.6 | 246.7 | 239.8 | 239.8 | 236.4 | 231.8 | 229.5 | 227.2 |
| 47.5° | 243.3 | 242.1 | 237.5 | 236.4 | 237.5 | 230.6 | 230.6 | 227.2 | 222.6 | 221.5 | 218.0 |
| 50° | 234.1 | 232.9 | 229.5 | 227.2 | 228.3 | 221.5 | 221.5 | 218.0 | 213.4 | 211.1 | 208.8 |
| 52.5° | 223.8 | 222.6 | 219.2 | 216.9 | 218.0 | 211.1 | 211.1 | 207.7 | 206.5 | 200.8 | 198.5 |
| 55° | 214.6 | 212.3 | 208.8 | 206.5 | 207.7 | 200.8 | 200.8 | 198.5 | 192.8 | 191.6 | 188.2 |
| 57.5° | 204.2 | 202.0 | 198.5 | 196.2 | 197.4 | 190.5 | 190.5 | 187.0 | 182.4 | 180.1 | 177.9 |
| 60° | 192.8 | 190.5 | 188.2 | 185.9 | 185.9 | 180.1 | 179.0 | 175.6 | 171.0 | 169.8 | 166.4 |
| 62.5° | 181.3 | 179.0 | 176.7 | 174.4 | 174.4 | 168.7 | 167.5 | 165.2 | 160.6 | 158.3 | 154.9 |
| 65° | 169.8 | 167.5 | 164.1 | 161.8 | 161.8 | 156.1 | 156.1 | 152.6 | 148.0 | 146.9 | 143.4 |
| 67.5° | 157.2 | 156.1 | 152.6 | 150.3 | 150.3 | 144.6 | 143.4 | 141.1 | 136.5 | 134.3 | 132.0 |
| 70° | 145.7 | 143.4 | 140.0 | 137.7 | 137.7 | 133.1 | 132.0 | 128.5 | 125.1 | 122.8 | 119.3 |
| 72.5° | 133.1 | 130.8 | 127.4 | 126.2 | 125.1 | 120.5 | 119.3 | 118.2 | 112.4 | 111.3 | 107.9 |
| 75° | 120.5 | 118.2 | 115.9 | 113.6 | 112.4 | 107.9 | 106.7 | 103.3 | 99.8 | 98.7 | 95.2 |
| 77.5° | 107.9 | 105.6 | 103.3 | 101.0 | 99.8 | 95.2 | 94.1 | 91.8 | 88.4 | 86.1 | 83.8 |
| 80° | 95.2 | 92.9 | 90.6 | 88.4 | 87.2 | 83.8 | 81.5 | 79.2 | 75.7 | 76.9 | 71.1 |
| 82.5° | 84.9 | 81.5 | 79.2 | 76.9 | 75.7 | 72.3 | 70.0 | 67.7 | 64.3 | 63.1 | 60.8 |
| 85° | 74.6 | 71.1 | 68.8 | 66.6 | 65.4 | 62.0 | 59.7 | 58.5 | 55.1 | 53.9 | 50.5 |
| 87.5° | 65.4 | 62.0 | 60.8 | 58.5 | 56.2 | 52.8 | 51.6 | 49.3 | 45.9 | 44.8 | 42.5 |
| 90° | 57.4 | 55.1 | 53.9 | 51.6 | 49.3 | 45.9 | 44.8 | 43.6 | 40.2 | 39.0 | 36.7 |
| 92.5° | 44.8 | 45.9 | 45.9 | 44.8 | 45.9 | 43.6 | 42.5 | 41.3 | 39.0 | 36.7 | 34.4 |
| 95° | 17.2 | 20.7 | 22.9 | 25.2 | 28.7 | 28.7 | 28.7 | 28.7 | 26.4 | 24.1 | 21.8 |
| 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: P130049

CATALOG NUMBER: HL618TAT - 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: P130049

CATALOG NUMBER: HL618TAT - HLM6935 - HL6FL - 71PS

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 |
| 2.5° | 324.7 | 317.8 | 317.8 | 321.3 | 319.0 | 323.6 | 322.4 | 322.4 | 321.3 | 320.1 | 313.3 |
| 5° | 322.4 | 315.5 | 315.5 | 319.0 | 315.5 | 320.1 | 319.0 | 319.0 | 317.8 | 316.7 | 314.4 |
| 7.5° | 320.1 | 313.3 | 312.1 | 315.5 | 312.1 | 316.7 | 315.5 | 314.4 | 313.3 | 312.1 | 309.8 |
| 10° | 316.7 | 309.8 | 308.7 | 312.1 | 307.5 | 312.1 | 311.0 | 309.8 | 308.7 | 307.5 | 305.2 |
| 12.5° | 313.3 | 306.4 | 305.2 | 307.5 | 304.1 | 308.7 | 307.5 | 306.4 | 305.2 | 302.9 | 300.6 |
| 15° | 308.7 | 301.8 | 301.8 | 304.1 | 300.6 | 304.1 | 302.9 | 301.8 | 300.6 | 298.3 | 296.0 |
| 17.5° | 305.2 | 297.2 | 297.2 | 299.5 | 294.9 | 299.5 | 297.2 | 296.0 | 294.9 | 293.7 | 290.3 |
| 20° | 300.6 | 292.6 | 292.6 | 294.9 | 290.3 | 293.7 | 292.6 | 291.5 | 290.3 | 288.0 | 285.7 |
| 22.5° | 294.9 | 288.0 | 286.9 | 289.2 | 284.6 | 288.0 | 286.9 | 285.7 | 284.6 | 283.4 | 281.1 |
| 25° | 289.2 | 282.3 | 281.1 | 283.4 | 278.8 | 282.3 | 281.1 | 280.0 | 278.8 | 276.5 | 274.2 |
| 27.5° | 283.4 | 276.5 | 275.4 | 277.7 | 273.1 | 276.5 | 275.4 | 273.1 | 271.9 | 270.8 | 268.5 |
| 30° | 276.5 | 269.6 | 268.5 | 271.9 | 266.2 | 269.6 | 267.4 | 267.4 | 265.1 | 263.9 | 261.6 |
| 32.5° | 269.6 | 262.8 | 261.6 | 263.9 | 259.3 | 262.8 | 260.5 | 266.2 | 257.0 | 255.9 | 253.6 |
| 35° | 262.8 | 255.9 | 253.6 | 255.9 | 251.3 | 253.6 | 253.6 | 251.3 | 250.1 | 247.8 | 245.6 |
| 37.5° | 253.6 | 247.8 | 246.7 | 247.8 | 243.3 | 245.6 | 244.4 | 243.3 | 242.1 | 241.0 | 237.5 |
| 40° | 245.6 | 239.8 | 238.7 | 239.8 | 235.2 | 237.5 | 236.4 | 236.4 | 234.1 | 232.9 | 230.6 |
| 42.5° | 237.5 | 230.6 | 229.5 | 230.6 | 227.2 | 228.3 | 227.2 | 227.2 | 224.9 | 223.8 | 221.5 |
| 45° | 228.3 | 222.6 | 221.5 | 222.6 | 218.0 | 220.3 | 219.2 | 218.0 | 215.7 | 214.6 | 212.3 |
| 47.5° | 219.2 | 213.4 | 212.3 | 213.4 | 208.8 | 211.1 | 210.0 | 208.8 | 206.5 | 205.4 | 203.1 |
| 50° | 208.8 | 204.2 | 203.1 | 204.2 | 199.7 | 200.8 | 199.7 | 199.7 | 197.4 | 196.2 | 193.9 |
| 52.5° | 199.7 | 193.9 | 192.8 | 193.9 | 189.3 | 190.5 | 190.5 | 189.3 | 187.0 | 185.9 | 184.7 |
| 55° | 189.3 | 184.7 | 183.6 | 183.6 | 179.0 | 180.1 | 179.0 | 179.0 | 176.7 | 175.6 | 174.4 |
| 57.5° | 179.0 | 173.3 | 172.1 | 172.1 | 168.7 | 169.8 | 168.7 | 168.7 | 166.4 | 165.2 | 162.9 |
| 60° | 167.5 | 162.9 | 161.8 | 161.8 | 157.2 | 158.3 | 157.2 | 157.2 | 154.9 | 153.8 | 151.5 |
| 62.5° | 156.1 | 151.5 | 150.3 | 150.3 | 145.7 | 146.9 | 146.9 | 145.7 | 143.4 | 142.3 | 141.1 |
| 65° | 144.6 | 140.0 | 138.8 | 137.7 | 134.3 | 135.4 | 134.3 | 133.1 | 132.0 | 130.8 | 129.7 |
| 67.5° | 132.0 | 128.5 | 129.7 | 126.2 | 122.8 | 122.8 | 122.8 | 121.6 | 119.3 | 119.3 | 118.2 |
| 70° | 120.5 | 115.9 | 114.7 | 113.6 | 110.2 | 111.3 | 110.2 | 109.0 | 107.9 | 106.7 | 105.6 |
| 72.5° | 107.9 | 104.4 | 102.1 | 102.1 | 98.7 | 98.7 | 98.7 | 97.5 | 95.2 | 95.2 | 94.1 |
| 75° | 95.2 | 91.8 | 90.6 | 89.5 | 86.1 | 87.2 | 84.9 | 84.9 | 82.6 | 82.6 | 81.5 |
| 77.5° | 82.6 | 79.2 | 79.2 | 76.9 | 74.6 | 74.6 | 73.4 | 73.4 | 72.3 | 71.1 | 70.0 |
| 80° | 70.0 | 67.7 | 66.6 | 65.4 | 63.1 | 63.1 | 62.0 | 60.8 | 59.7 | 59.7 | 58.5 |
| 82.5° | 59.7 | 57.4 | 56.2 | 53.9 | 52.8 | 51.6 | 51.6 | 50.5 | 49.3 | 49.3 | 48.2 |
| 85° | 49.3 | 47.0 | 45.9 | 44.8 | 43.6 | 42.5 | 41.3 | 41.3 | 40.2 | 39.0 | 39.0 |
| 87.5° | 41.3 | 40.2 | 39.0 | 37.9 | 35.6 | 35.6 | 34.4 | 34.4 | 33.3 | 32.1 | 31.0 |
| 90° | 35.6 | 34.4 | 33.3 | 32.1 | 31.0 | 29.8 | 28.7 | 28.7 | 27.5 | 27.5 | 26.4 |
| 92.5° | 32.1 | 28.7 | 25.2 | 24.1 | 20.7 | 20.7 | 19.5 | 20.7 | 20.7 | 21.8 | 22.9 |
| 95° | 18.4 | 14.9 | 11.5 | 9.2 | 6.9 | 5.7 | 5.7 | 6.9 | 8.0 | 10.3 | 12.6 |
| 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: P130049

CATALOG NUMBER: HL618TAT - 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: P130049

CATALOG NUMBER: HL618TAT - HLM6935 - HL6FL - 71PS

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 0° | 323.6 | 323.6 | 323.6 | 323.6 |
| 2.5° | 323.6 | 325.9 | 322.4 | 319.0 |
| 5° | 320.1 | 322.4 | 319.0 | 315.5 |
| 7.5° | 315.5 | 316.7 | 314.4 | 309.8 |
| 10° | 311.0 | 312.1 | 308.7 | 305.2 |
| 12.5° | 306.4 | 307.5 | 305.2 | 301.8 |
| 15° | 301.8 | 302.9 | 299.5 | 296.0 |
| 17.5° | 296.0 | 297.2 | 294.9 | 290.3 |
| 20° | 290.3 | 292.6 | 289.2 | 285.7 |
| 22.5° | 284.6 | 286.9 | 283.4 | 269.6 |
| 25° | 278.8 | 280.0 | 277.7 | 274.2 |
| 27.5° | 271.9 | 273.1 | 270.8 | 267.4 |
| 30° | 265.1 | 266.2 | 263.9 | 260.5 |
| 32.5° | 257.0 | 258.2 | 257.0 | 252.4 |
| 35° | 249.0 | 250.1 | 247.8 | 244.4 |
| 37.5° | 241.0 | 242.1 | 239.8 | 237.5 |
| 40° | 232.9 | 234.1 | 231.8 | 228.3 |
| 42.5° | 223.8 | 224.9 | 222.6 | 220.3 |
| 45° | 214.6 | 215.7 | 213.4 | 211.1 |
| 47.5° | 208.8 | 205.4 | 204.2 | 202.0 |
| 50° | 196.2 | 196.2 | 195.1 | 191.6 |
| 52.5° | 185.9 | 185.9 | 184.7 | 182.4 |
| 55° | 177.9 | 175.6 | 174.4 | 172.1 |
| 57.5° | 164.1 | 164.1 | 162.9 | 161.8 |
| 60° | 153.8 | 152.6 | 152.6 | 150.3 |
| 62.5° | 142.3 | 142.3 | 142.3 | 138.8 |
| 65° | 129.7 | 130.8 | 129.7 | 127.4 |
| 67.5° | 119.3 | 118.2 | 118.2 | 115.9 |
| 70° | 106.7 | 105.6 | 105.6 | 103.3 |
| 72.5° | 94.1 | 94.1 | 94.1 | 91.8 |
| 75° | 81.5 | 81.5 | 81.5 | 80.3 |
| 77.5° | 70.0 | 70.0 | 70.0 | 68.8 |
| 80° | 58.5 | 58.5 | 57.4 | 57.4 |
| 82.5° | 48.2 | 47.0 | 48.2 | 47.0 |
| 85° | 39.0 | 37.9 | 39.0 | 37.9 |
| 87.5° | 31.0 | 31.0 | 31.0 | 29.8 |
| 90° | 26.4 | 26.4 | 26.4 | 26.4 |
| 92.5° | 24.1 | 24.1 | 25.2 | 24.1 |
| 95° | 13.8 | 13.8 | 13.8 | 13.8 |
| 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: P130049

CATALOG NUMBER: HL618TAT - 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)