

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: P130193

Luminaire Tested: **HL612ICAT - HLM6927 - HL6FL - ERT702**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33460)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HL612ICAT - HLM6927 - HL6FL - ERT702
Description: HALO ALLSLOPE 6" 21W, Drop Opal Plastic 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 / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1010.9 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.84 / 1.09
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')
CIE Type: Direct

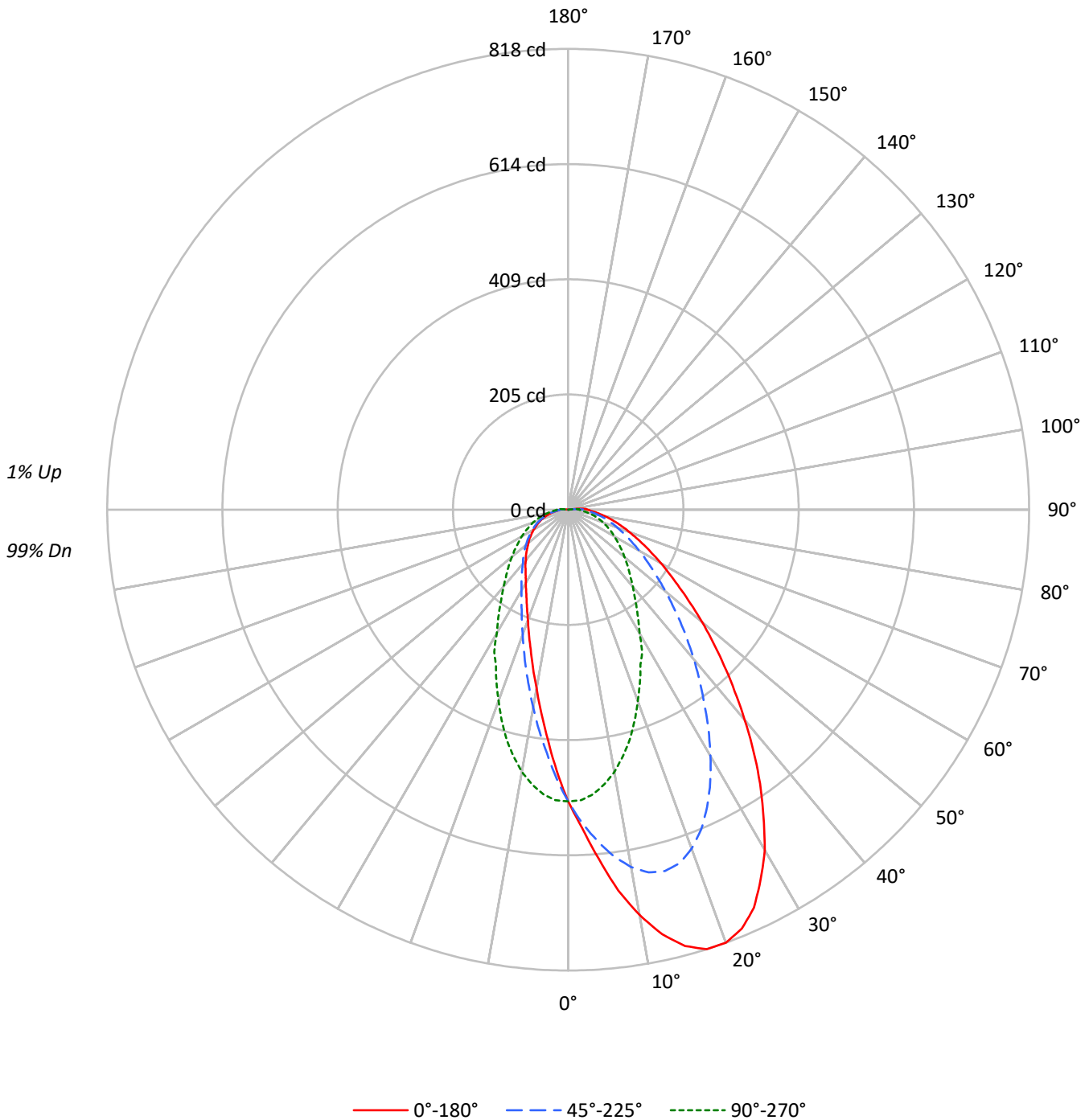
Input Watts (W): 19.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P130193

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Luminous Intensity Polar Plot





TEST NUMBER: P130193

CATALOG NUMBER: HL612ICAT - HLM6927 - HL6FL - ERT702

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 101 | 101 | 101 | 99 | | | | |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 89 | 87 | 85 | 83 | | | | |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 | | | | |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 61 | | | | |
| 4 | 85 | 73 | 65 | 59 | 82 | 72 | 64 | 58 | 70 | 63 | 58 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | |
| 5 | 79 | 66 | 58 | 52 | 76 | 65 | 57 | 51 | 63 | 56 | 51 | 61 | 55 | 50 | 59 | 54 | 50 | 48 | | | | |
| 6 | 73 | 61 | 52 | 46 | 71 | 60 | 52 | 46 | 58 | 51 | 45 | 56 | 50 | 45 | 54 | 49 | 44 | 42 | | | | |
| 7 | 68 | 55 | 47 | 41 | 66 | 55 | 47 | 41 | 53 | 46 | 41 | 52 | 45 | 41 | 50 | 44 | 40 | 38 | | | | |
| 8 | 64 | 51 | 43 | 38 | 62 | 50 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 46 | 41 | 37 | 35 | | | | |
| 9 | 60 | 47 | 39 | 34 | 59 | 47 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 33 | 32 | | | | |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 40 | 35 | 31 | 29 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 30902 | 30902 | 30902 |
| 5° | 36417 | 29689 | 24038 |
| 10° | 42301 | 27357 | 18667 |
| 15° | 46255 | 24345 | 14803 |
| 20° | 47373 | 20892 | 12065 |
| 25° | 45685 | 17773 | 10232 |
| 30° | 41693 | 15148 | 8970 |
| 35° | 36463 | 12988 | 8091 |
| 40° | 31035 | 11367 | 7416 |
| 45° | 26097 | 10164 | 6949 |
| 50° | 21878 | 9183 | 6482 |
| 55° | 18196 | 8374 | 6126 |
| 60° | 15525 | 7767 | 5764 |
| 65° | 13370 | 7162 | 5371 |
| 70° | 11591 | 6648 | 5024 |
| 75° | 10283 | 6033 | 4528 |
| 80° | 9036 | 5252 | 3880 |
| 85° | 8058 | 4546 | 3240 |



TEST NUMBER: P130193

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.7 | 4.8 |
| 10°-20° | 133.7 | 13.2 |
| 20°-30° | 179.2 | 17.7 |
| 30°-40° | 178.7 | 17.7 |
| 40°-50° | 153.6 | 15.2 |
| 50°-60° | 121.4 | 12.0 |
| 60°-70° | 90.4 | 8.9 |
| 70°-80° | 60.7 | 6.0 |
| 80°-90° | 33.4 | 3.3 |
| 90°-100° | 11.1 | 1.1 |
| 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° | 361.5 | 35.8 |
| 0°-40° | 540.2 | 53.4 |
| 0°-60° | 815.2 | 80.6 |
| 0°-90° | 999.8 | 98.9 |
| 90°-120° | 11.1 | 1.1 |
| 90°-150° | 11.1 | 1.1 |
| 90°-180° | 11.0 | 1.1 |
| 0°-180° | 1010.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0° | 518 | 518 | 518 | 518 | 518 | |
| 5° | 622 | 590 | 507 | 434 | 410 | 63 |
| 15° | 802 | 664 | 422 | 290 | 257 | 226 |
| 25° | 780 | 583 | 303 | 195 | 175 | 355 |
| 35° | 594 | 421 | 211 | 144 | 132 | 370 |
| 45° | 391 | 281 | 152 | 111 | 104 | 303 |
| 55° | 241 | 181 | 111 | 86 | 81 | 218 |
| 65° | 149 | 116 | 80 | 64 | 60 | 148 |
| 75° | 89 | 73 | 52 | 41 | 39 | 95 |
| 85° | 48 | 39 | 27 | 20 | 19 | 43 |
| 90° | 34 | 28 | 20 | 15 | 15 | 19 |
| 95° | 21 | 8 | 14 | 4 | 10 | 10 |
| 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: P130193

CATALOG NUMBER: HL612ICAT - HLM6927 - HL6FL - ERT702

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 |
| 2.5° | 565.2 | 571.3 | 569.8 | 560.6 | 570.6 | 569.8 | 560.6 | 559.8 | 555.2 | 556.0 | 552.9 |
| 5° | 621.9 | 628.8 | 624.9 | 616.5 | 625.7 | 611.9 | 606.6 | 605.8 | 595.1 | 589.7 | 582.8 |
| 7.5° | 681.6 | 686.2 | 681.6 | 669.4 | 677.8 | 658.6 | 648.7 | 647.1 | 630.3 | 620.3 | 608.8 |
| 10° | 730.6 | 736.7 | 732.2 | 714.5 | 723.7 | 700.8 | 697.7 | 680.8 | 657.9 | 644.1 | 626.5 |
| 12.5° | 772.0 | 778.9 | 775.0 | 755.9 | 759.7 | 732.2 | 715.3 | 705.3 | 678.5 | 659.4 | 636.4 |
| 15° | 801.8 | 808.7 | 801.1 | 781.2 | 784.2 | 753.6 | 733.7 | 719.9 | 687.0 | 664.0 | 636.4 |
| 17.5° | 817.9 | 824.1 | 815.6 | 794.2 | 794.2 | 762.0 | 739.0 | 722.2 | 684.7 | 657.9 | 626.5 |
| 20° | 817.9 | 824.1 | 815.6 | 792.7 | 791.1 | 755.9 | 732.2 | 711.5 | 671.6 | 640.2 | 606.6 |
| 22.5° | 804.9 | 811.8 | 801.1 | 777.3 | 774.3 | 738.3 | 712.2 | 690.8 | 648.7 | 615.7 | 579.7 |
| 25° | 779.6 | 783.5 | 775.0 | 750.5 | 745.2 | 709.9 | 683.1 | 660.2 | 617.3 | 582.8 | 547.6 |
| 27.5° | 739.8 | 746.7 | 736.7 | 713.0 | 709.2 | 672.4 | 644.8 | 621.9 | 578.2 | 546.0 | 509.3 |
| 30° | 697.7 | 700.8 | 690.8 | 667.8 | 662.5 | 628.0 | 601.2 | 575.9 | 536.9 | 504.7 | 470.2 |
| 32.5° | 644.8 | 647.9 | 638.7 | 617.3 | 612.7 | 579.7 | 553.7 | 531.5 | 493.2 | 463.3 | 429.6 |
| 35° | 593.5 | 595.1 | 586.6 | 566.0 | 559.1 | 530.0 | 505.5 | 484.8 | 448.0 | 421.2 | 392.1 |
| 37.5° | 539.9 | 543.8 | 533.0 | 515.4 | 507.0 | 483.2 | 458.7 | 438.8 | 405.9 | 382.9 | 356.1 |
| 40° | 487.1 | 490.1 | 481.7 | 464.1 | 458.0 | 436.5 | 414.3 | 397.5 | 369.1 | 346.9 | 323.2 |
| 42.5° | 437.3 | 440.4 | 433.5 | 417.4 | 412.8 | 391.3 | 374.5 | 357.7 | 333.1 | 312.5 | 291.0 |
| 45° | 391.3 | 393.6 | 387.5 | 375.3 | 368.4 | 350.8 | 335.4 | 320.9 | 296.4 | 281.1 | 261.2 |
| 47.5° | 348.5 | 349.2 | 343.1 | 330.1 | 329.3 | 311.7 | 297.9 | 285.7 | 265.0 | 251.2 | 235.1 |
| 50° | 310.2 | 309.4 | 303.3 | 296.4 | 291.8 | 274.9 | 264.2 | 254.3 | 237.4 | 225.2 | 206.8 |
| 52.5° | 273.4 | 274.2 | 268.8 | 261.2 | 261.9 | 245.8 | 235.1 | 226.7 | 212.1 | 201.4 | 189.9 |
| 55° | 241.2 | 243.5 | 238.9 | 231.3 | 226.7 | 216.7 | 208.3 | 201.4 | 188.4 | 180.7 | 170.0 |
| 57.5° | 213.7 | 215.2 | 212.1 | 205.2 | 201.4 | 192.2 | 185.3 | 180.0 | 168.5 | 162.4 | 153.2 |
| 60° | 189.9 | 190.7 | 186.1 | 181.5 | 179.2 | 170.8 | 169.3 | 160.1 | 150.9 | 145.5 | 137.9 |
| 62.5° | 167.7 | 168.5 | 166.2 | 160.1 | 158.5 | 151.6 | 147.0 | 142.4 | 134.8 | 130.2 | 122.5 |
| 65° | 148.6 | 148.6 | 147.0 | 141.7 | 140.2 | 134.8 | 130.2 | 127.1 | 120.2 | 116.4 | 111.8 |
| 67.5° | 130.2 | 131.0 | 128.7 | 125.6 | 123.3 | 119.5 | 115.6 | 113.3 | 107.2 | 104.2 | 99.6 |
| 70° | 114.9 | 115.6 | 113.3 | 111.0 | 110.3 | 104.9 | 102.6 | 101.1 | 95.7 | 92.7 | 89.6 |
| 72.5° | 101.9 | 101.1 | 99.6 | 98.0 | 96.5 | 93.4 | 90.4 | 88.8 | 85.0 | 82.7 | 79.6 |
| 75° | 88.8 | 88.1 | 87.3 | 85.0 | 84.2 | 81.2 | 79.6 | 78.1 | 74.3 | 72.8 | 69.7 |
| 77.5° | 77.4 | 76.6 | 75.8 | 74.3 | 73.5 | 70.5 | 68.9 | 68.2 | 65.1 | 63.6 | 61.3 |
| 80° | 65.9 | 65.9 | 65.1 | 63.6 | 63.6 | 61.3 | 59.7 | 59.0 | 55.9 | 54.4 | 52.8 |
| 82.5° | 55.9 | 55.9 | 55.1 | 54.4 | 53.6 | 52.1 | 50.5 | 49.8 | 47.5 | 46.0 | 44.4 |
| 85° | 47.5 | 47.5 | 46.7 | 46.0 | 45.2 | 43.7 | 42.1 | 41.4 | 39.8 | 39.1 | 37.5 |
| 87.5° | 39.8 | 39.8 | 39.1 | 38.3 | 37.5 | 36.8 | 36.0 | 35.2 | 33.7 | 32.9 | 31.4 |
| 90° | 34.5 | 34.5 | 33.7 | 32.9 | 32.9 | 32.2 | 30.6 | 30.6 | 29.1 | 28.3 | 27.6 |
| 92.5° | 31.4 | 31.4 | 31.4 | 29.9 | 29.1 | 27.6 | 26.0 | 23.7 | 21.4 | 20.7 | 20.7 |
| 95° | 21.4 | 22.2 | 21.4 | 20.7 | 18.4 | 16.1 | 13.0 | 11.5 | 7.7 | 7.7 | 6.9 |
| 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: P130193

CATALOG NUMBER: HL612ICAT - HLM6927 - HL6FL - ERT702

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° | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 |
| 2.5° | 542.2 | 546.8 | 539.2 | 528.4 | 535.3 | 527.7 | 522.3 | 516.2 | 507.0 | 510.1 | 497.0 |
| 5° | 568.3 | 568.3 | 554.5 | 539.2 | 540.7 | 528.4 | 517.7 | 507.0 | 492.4 | 490.1 | 474.8 |
| 7.5° | 588.2 | 583.6 | 564.4 | 543.8 | 541.5 | 522.3 | 507.8 | 491.7 | 474.1 | 467.2 | 448.8 |
| 10° | 613.4 | 590.5 | 566.0 | 540.7 | 532.3 | 510.8 | 502.4 | 472.5 | 451.1 | 441.9 | 420.5 |
| 12.5° | 605.0 | 589.7 | 560.6 | 530.7 | 519.2 | 492.4 | 470.2 | 448.0 | 425.0 | 412.0 | 390.6 |
| 15° | 599.7 | 580.5 | 546.8 | 514.6 | 499.3 | 471.0 | 445.7 | 422.0 | 395.9 | 382.2 | 360.7 |
| 17.5° | 587.4 | 563.7 | 527.7 | 492.4 | 474.1 | 443.4 | 417.4 | 392.1 | 366.1 | 352.3 | 330.1 |
| 20° | 565.2 | 538.4 | 501.6 | 464.9 | 444.2 | 413.6 | 387.5 | 360.7 | 337.0 | 320.9 | 300.2 |
| 22.5° | 539.2 | 509.3 | 471.0 | 431.9 | 413.6 | 382.2 | 357.7 | 332.4 | 307.9 | 292.6 | 273.4 |
| 25° | 505.5 | 476.4 | 438.8 | 401.3 | 381.4 | 350.8 | 327.0 | 303.3 | 281.1 | 267.3 | 248.1 |
| 27.5° | 469.5 | 440.4 | 404.4 | 369.9 | 350.0 | 320.9 | 297.9 | 284.1 | 257.3 | 243.5 | 226.7 |
| 30° | 431.9 | 402.1 | 369.9 | 337.0 | 319.4 | 292.6 | 271.1 | 253.5 | 233.6 | 222.1 | 207.5 |
| 32.5° | 394.4 | 369.1 | 338.5 | 307.1 | 291.0 | 267.3 | 247.4 | 231.3 | 214.4 | 203.7 | 190.7 |
| 35° | 359.9 | 334.7 | 307.9 | 279.5 | 265.7 | 242.8 | 225.9 | 211.4 | 195.3 | 186.9 | 176.1 |
| 37.5° | 326.3 | 304.8 | 279.5 | 255.0 | 241.2 | 221.3 | 206.8 | 193.0 | 180.0 | 172.3 | 162.4 |
| 40° | 295.6 | 276.5 | 255.0 | 232.1 | 221.3 | 202.9 | 190.7 | 178.4 | 166.2 | 159.3 | 150.9 |
| 42.5° | 273.4 | 250.4 | 231.3 | 210.6 | 202.2 | 186.1 | 175.4 | 163.9 | 153.2 | 147.0 | 140.2 |
| 45° | 242.0 | 225.9 | 209.8 | 192.2 | 183.8 | 170.8 | 160.8 | 152.4 | 142.4 | 137.1 | 131.0 |
| 47.5° | 218.3 | 204.5 | 191.5 | 175.4 | 168.5 | 157.8 | 150.9 | 140.9 | 132.5 | 127.1 | 122.5 |
| 50° | 196.1 | 185.3 | 173.8 | 160.1 | 154.7 | 144.7 | 136.3 | 130.2 | 122.5 | 118.7 | 114.1 |
| 52.5° | 177.7 | 167.7 | 157.8 | 146.3 | 141.7 | 133.3 | 126.4 | 121.0 | 114.1 | 110.3 | 105.7 |
| 55° | 159.3 | 151.6 | 144.0 | 133.3 | 130.2 | 122.5 | 116.4 | 111.0 | 105.7 | 102.6 | 98.0 |
| 57.5° | 144.0 | 137.9 | 131.0 | 121.8 | 119.5 | 112.6 | 107.2 | 102.6 | 98.0 | 95.0 | 91.1 |
| 60° | 130.2 | 124.8 | 119.5 | 111.8 | 109.5 | 103.4 | 98.8 | 95.0 | 90.4 | 88.1 | 85.0 |
| 62.5° | 117.9 | 113.3 | 108.0 | 101.1 | 99.6 | 95.0 | 90.4 | 87.3 | 83.5 | 81.2 | 78.1 |
| 65° | 106.5 | 102.6 | 98.0 | 91.9 | 91.1 | 86.5 | 82.7 | 79.6 | 76.6 | 74.3 | 72.0 |
| 67.5° | 95.7 | 91.9 | 88.8 | 83.5 | 81.9 | 78.1 | 75.1 | 72.8 | 69.7 | 68.2 | 65.9 |
| 70° | 85.8 | 82.7 | 79.6 | 75.1 | 74.3 | 72.0 | 68.2 | 65.9 | 62.8 | 61.3 | 59.7 |
| 72.5° | 75.8 | 73.5 | 70.5 | 67.4 | 65.9 | 63.6 | 60.5 | 59.0 | 56.7 | 55.9 | 54.4 |
| 75° | 66.6 | 64.3 | 62.8 | 59.0 | 58.2 | 55.9 | 53.6 | 52.1 | 49.8 | 48.2 | 46.7 |
| 77.5° | 58.2 | 56.7 | 55.1 | 51.3 | 50.5 | 49.0 | 46.7 | 45.2 | 43.7 | 42.1 | 40.6 |
| 80° | 50.5 | 49.0 | 47.5 | 44.4 | 43.7 | 42.1 | 39.8 | 38.3 | 36.8 | 36.0 | 35.2 |
| 82.5° | 42.9 | 41.4 | 39.8 | 37.5 | 36.8 | 35.2 | 33.7 | 32.2 | 30.6 | 29.9 | 29.1 |
| 85° | 36.0 | 34.5 | 33.7 | 31.4 | 30.6 | 29.1 | 27.6 | 26.8 | 25.3 | 24.5 | 23.7 |
| 87.5° | 30.6 | 29.1 | 28.3 | 26.0 | 26.0 | 24.5 | 23.0 | 22.2 | 21.4 | 20.7 | 19.9 |
| 90° | 26.0 | 25.3 | 24.5 | 23.0 | 22.2 | 21.4 | 20.7 | 19.9 | 19.1 | 18.4 | 17.6 |
| 92.5° | 20.7 | 20.7 | 20.7 | 19.9 | 20.7 | 19.9 | 19.1 | 18.4 | 17.6 | 16.8 | 16.1 |
| 95° | 9.2 | 10.0 | 11.5 | 12.3 | 13.8 | 14.6 | 13.8 | 13.8 | 13.0 | 12.3 | 10.7 |
| 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: P130193

CATALOG NUMBER: HL612ICAT - HLM6927 - HL6FL - ERT702

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: P130193

CATALOG NUMBER: HL612ICAT - HLM6927 - HL6FL - ERT702

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 | 517.7 |
| 2.5° | 497.8 | 500.9 | 493.2 | 494.0 | 484.8 | 477.1 | 474.1 | 475.6 | 467.2 | 473.3 | 474.8 |
| 5° | 471.8 | 470.2 | 460.3 | 456.4 | 445.0 | 433.5 | 427.3 | 428.1 | 421.2 | 423.5 | 423.5 |
| 7.5° | 442.7 | 438.1 | 424.3 | 419.7 | 405.9 | 395.2 | 386.8 | 384.5 | 377.6 | 376.8 | 376.8 |
| 10° | 409.7 | 404.4 | 390.6 | 382.9 | 367.6 | 356.9 | 347.7 | 344.6 | 332.4 | 335.4 | 333.9 |
| 12.5° | 379.1 | 374.5 | 356.9 | 348.5 | 332.4 | 320.9 | 312.5 | 309.4 | 301.7 | 299.4 | 298.7 |
| 15° | 346.9 | 340.0 | 323.2 | 307.1 | 302.5 | 290.3 | 281.1 | 276.5 | 270.3 | 269.6 | 266.5 |
| 17.5° | 317.1 | 308.6 | 293.3 | 284.9 | 269.6 | 261.2 | 253.5 | 248.9 | 243.5 | 242.8 | 240.5 |
| 20° | 288.0 | 279.5 | 266.5 | 257.3 | 245.8 | 235.9 | 229.0 | 225.2 | 220.6 | 218.3 | 216.7 |
| 22.5° | 262.7 | 254.3 | 241.2 | 234.3 | 223.6 | 214.4 | 208.3 | 205.2 | 200.7 | 199.9 | 197.6 |
| 25° | 237.4 | 231.3 | 219.8 | 213.7 | 203.7 | 195.3 | 190.7 | 188.4 | 183.8 | 182.3 | 181.5 |
| 27.5° | 217.5 | 211.4 | 201.4 | 195.3 | 186.1 | 180.0 | 175.4 | 173.8 | 170.0 | 169.3 | 167.7 |
| 30° | 199.1 | 193.8 | 184.6 | 180.0 | 171.5 | 165.4 | 161.6 | 160.8 | 156.2 | 157.0 | 154.7 |
| 32.5° | 183.8 | 179.2 | 170.8 | 166.2 | 160.1 | 153.9 | 150.9 | 149.3 | 146.3 | 146.3 | 144.7 |
| 35° | 169.3 | 166.2 | 158.5 | 154.7 | 148.6 | 144.0 | 140.9 | 139.4 | 137.1 | 137.1 | 135.6 |
| 37.5° | 156.2 | 153.2 | 147.8 | 144.0 | 138.6 | 134.0 | 131.7 | 130.2 | 128.7 | 127.9 | 127.1 |
| 40° | 145.5 | 143.2 | 137.9 | 134.8 | 129.4 | 124.8 | 123.3 | 122.5 | 121.0 | 120.2 | 119.5 |
| 42.5° | 135.6 | 134.0 | 129.4 | 126.4 | 121.8 | 118.7 | 116.4 | 115.6 | 113.3 | 113.3 | 113.3 |
| 45° | 126.4 | 124.8 | 121.0 | 117.9 | 114.1 | 111.0 | 109.5 | 108.0 | 107.2 | 106.5 | 106.5 |
| 47.5° | 117.9 | 117.2 | 113.3 | 111.0 | 107.2 | 104.9 | 102.6 | 101.9 | 100.3 | 100.3 | 99.6 |
| 50° | 110.3 | 109.5 | 106.5 | 104.2 | 100.3 | 98.0 | 96.5 | 95.7 | 94.2 | 94.2 | 93.4 |
| 52.5° | 103.4 | 101.9 | 99.6 | 97.3 | 94.2 | 91.9 | 90.4 | 89.6 | 88.8 | 88.8 | 88.1 |
| 55° | 96.5 | 95.7 | 92.7 | 90.4 | 88.1 | 85.8 | 84.2 | 84.2 | 82.7 | 82.7 | 81.9 |
| 57.5° | 89.6 | 88.8 | 86.5 | 84.2 | 81.9 | 80.4 | 78.9 | 78.1 | 77.4 | 77.4 | 76.6 |
| 60° | 82.7 | 82.7 | 79.6 | 78.1 | 75.8 | 74.3 | 73.5 | 72.8 | 72.0 | 71.2 | 71.2 |
| 62.5° | 74.3 | 75.8 | 74.3 | 72.0 | 70.5 | 68.9 | 67.4 | 67.4 | 66.6 | 65.9 | 65.9 |
| 65° | 70.5 | 69.7 | 68.2 | 66.6 | 64.3 | 63.6 | 62.0 | 61.3 | 61.3 | 61.3 | 59.7 |
| 67.5° | 62.8 | 63.6 | 62.0 | 60.5 | 59.0 | 57.4 | 56.7 | 55.9 | 55.1 | 55.1 | 55.1 |
| 70° | 58.2 | 58.2 | 56.7 | 55.1 | 53.6 | 52.1 | 51.3 | 50.5 | 49.8 | 49.8 | 49.8 |
| 72.5° | 52.1 | 52.1 | 50.5 | 49.0 | 47.5 | 46.7 | 46.0 | 45.2 | 45.2 | 44.4 | 44.4 |
| 75° | 46.0 | 45.2 | 44.4 | 43.7 | 42.1 | 41.4 | 40.6 | 39.8 | 39.8 | 39.1 | 39.1 |
| 77.5° | 39.8 | 39.1 | 38.3 | 37.5 | 36.0 | 36.0 | 34.5 | 34.5 | 34.5 | 33.7 | 33.7 |
| 80° | 33.7 | 33.7 | 32.2 | 31.4 | 30.6 | 29.9 | 29.9 | 29.1 | 29.1 | 28.3 | 28.3 |
| 82.5° | 27.6 | 27.6 | 26.8 | 26.0 | 25.3 | 24.5 | 24.5 | 23.7 | 23.7 | 23.7 | 23.0 |
| 85° | 23.0 | 22.2 | 21.4 | 21.4 | 20.7 | 19.9 | 19.9 | 19.1 | 19.1 | 19.1 | 19.1 |
| 87.5° | 19.1 | 19.1 | 18.4 | 17.6 | 16.8 | 16.8 | 16.8 | 16.1 | 16.1 | 16.1 | 16.1 |
| 90° | 16.8 | 16.8 | 16.1 | 16.1 | 15.3 | 15.3 | 15.3 | 14.6 | 14.6 | 14.6 | 14.6 |
| 92.5° | 15.3 | 14.6 | 13.8 | 12.3 | 11.5 | 10.7 | 11.5 | 11.5 | 12.3 | 13.0 | 13.0 |
| 95° | 10.0 | 8.4 | 6.1 | 4.6 | 3.8 | 3.8 | 3.8 | 4.6 | 6.1 | 6.9 | 8.4 |
| 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 |



TEST NUMBER: P130193

CATALOG NUMBER: HL612ICAT - HLM6927 - HL6FL - ERT702

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: P130193

CATALOG NUMBER: HL612ICAT - HLM6927 - HL6FL - ERT702

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 0° | 517.7 | 517.7 | 517.7 | 517.7 |
| 2.5° | 467.2 | 467.2 | 471.0 | 464.1 |
| 5° | 415.9 | 415.9 | 418.2 | 410.5 |
| 7.5° | 371.4 | 369.1 | 369.1 | 363.8 |
| 10° | 327.8 | 327.0 | 327.0 | 322.4 |
| 12.5° | 292.6 | 291.8 | 293.3 | 288.0 |
| 15° | 260.4 | 261.2 | 261.9 | 256.6 |
| 17.5° | 235.1 | 235.1 | 233.6 | 231.3 |
| 20° | 212.9 | 212.9 | 211.4 | 208.3 |
| 22.5° | 193.8 | 194.5 | 194.5 | 190.7 |
| 25° | 178.4 | 178.4 | 178.4 | 174.6 |
| 27.5° | 164.7 | 164.7 | 165.4 | 161.6 |
| 30° | 153.2 | 153.2 | 153.2 | 150.1 |
| 32.5° | 143.2 | 143.2 | 143.2 | 140.2 |
| 35° | 134.8 | 134.8 | 134.0 | 131.7 |
| 37.5° | 126.4 | 126.4 | 125.6 | 124.8 |
| 40° | 118.7 | 118.7 | 118.7 | 116.4 |
| 42.5° | 112.6 | 112.6 | 111.8 | 111.0 |
| 45° | 105.7 | 105.7 | 104.9 | 104.2 |
| 47.5° | 99.6 | 98.8 | 98.8 | 98.0 |
| 50° | 93.4 | 93.4 | 92.7 | 91.9 |
| 52.5° | 88.1 | 88.1 | 87.3 | 87.3 |
| 55° | 82.7 | 81.9 | 81.9 | 81.2 |
| 57.5° | 76.6 | 76.6 | 76.6 | 75.8 |
| 60° | 71.2 | 71.2 | 70.5 | 70.5 |
| 62.5° | 65.9 | 65.9 | 65.1 | 65.1 |
| 65° | 60.5 | 60.5 | 59.7 | 59.7 |
| 67.5° | 55.1 | 55.1 | 54.4 | 54.4 |
| 70° | 49.8 | 49.8 | 49.0 | 49.8 |
| 72.5° | 44.4 | 44.4 | 43.7 | 44.4 |
| 75° | 39.1 | 39.1 | 39.1 | 39.1 |
| 77.5° | 33.7 | 33.7 | 33.7 | 33.7 |
| 80° | 28.3 | 28.3 | 28.3 | 28.3 |
| 82.5° | 23.7 | 23.7 | 23.0 | 23.7 |
| 85° | 19.1 | 19.1 | 19.1 | 19.1 |
| 87.5° | 16.1 | 16.1 | 16.1 | 16.1 |
| 90° | 14.6 | 14.6 | 14.6 | 15.3 |
| 92.5° | 13.0 | 13.8 | 13.8 | 13.8 |
| 95° | 9.2 | 9.2 | 9.2 | 10.0 |
| 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: P130193

CATALOG NUMBER: HL612ICAT - HLM6927 - HL6FL - ERT702

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)