

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: P123725

Luminaire Tested: **EL406927-TL409WHWW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13990)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406927-TL409WHWW
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
WALL-WASH WITH WHITE REFLECTOR AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 2700K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 640.0 lumens
Efficiency: N/A
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.16 / 1.2
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

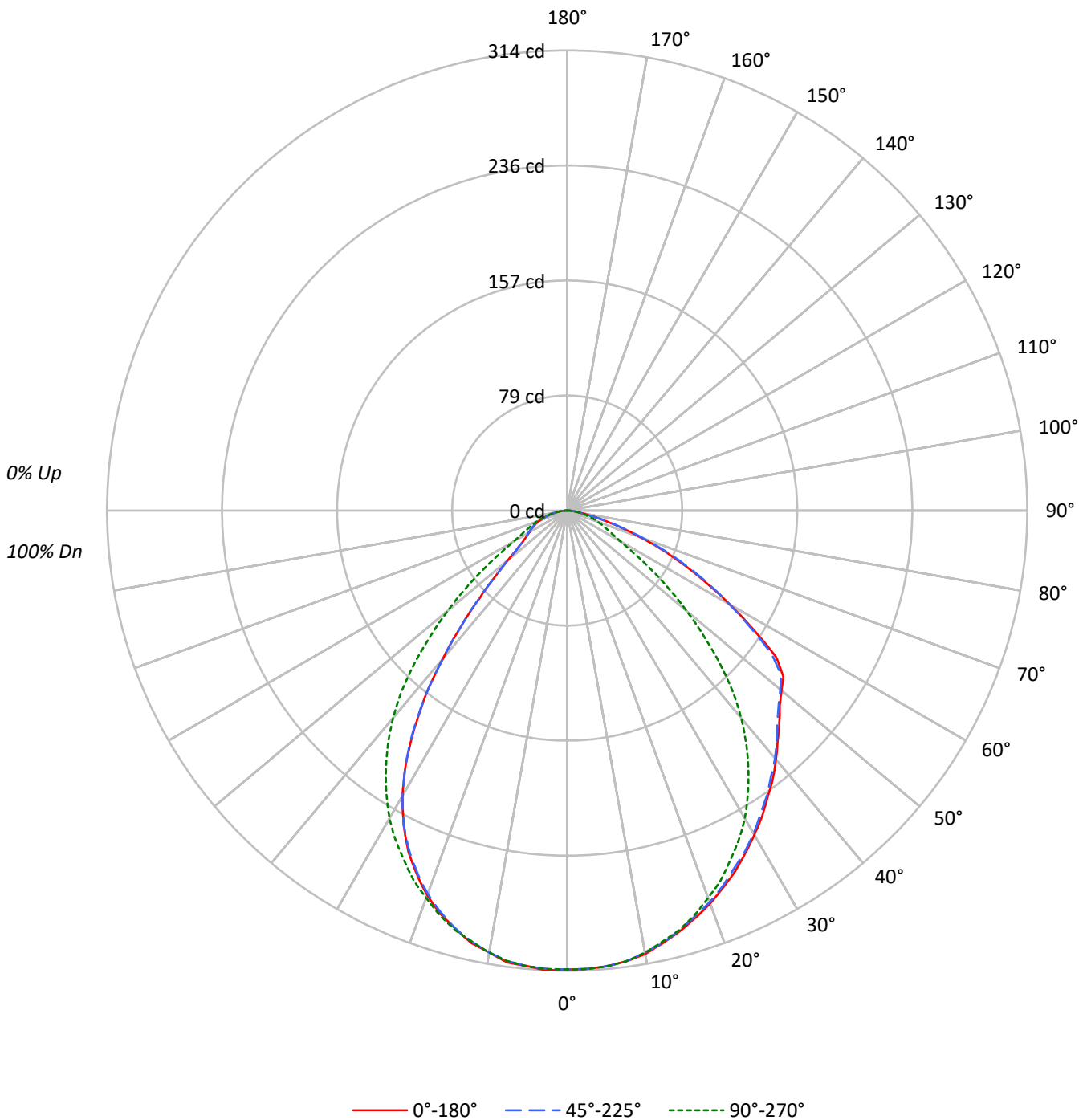
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P123725

CATALOG NUMBER: EL406927-TL409WHWW

Luminous Intensity Polar Plot





TEST NUMBER: P123725

CATALOG NUMBER: EL406927-TL409WHWW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 111 | 106 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | | | | | 87 | | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 87 | 83 | 89 | 85 | 81 | 86 | 82 | 79 | 83 | 80 | 77 | | | | | 75 | | | | |
| 3 | 94 | 85 | 77 | 72 | 92 | 83 | 76 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | | | | | 66 | | | | |
| 4 | 87 | 76 | 68 | 62 | 85 | 75 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 60 | 68 | 63 | 59 | | | | | 57 | | | | |
| 5 | 80 | 69 | 61 | 55 | 78 | 68 | 60 | 54 | 66 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | | | | | 51 | | | | |
| 6 | 75 | 62 | 54 | 48 | 73 | 62 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | | | | | 45 | | | | |
| 7 | 70 | 57 | 49 | 43 | 68 | 56 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 42 | | | | | 41 | | | | |
| 8 | 65 | 52 | 45 | 39 | 64 | 52 | 44 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 38 | | | | | 37 | | | | |
| 9 | 61 | 48 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | | | | | 33 | | | | |
| 10 | 57 | 45 | 38 | 33 | 56 | 44 | 37 | 33 | 43 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | | | | | 30 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 50442 | 50442 | 50442 |
| 5° | 50473 | 50473 | 50473 |
| 10° | 50255 | 50091 | 50091 |
| 15° | 49569 | 49402 | 49236 |
| 20° | 48913 | 48227 | 47884 |
| 25° | 48244 | 46822 | 45595 |
| 30° | 47530 | 45130 | 41800 |
| 35° | 46926 | 42422 | 35775 |
| 40° | 46625 | 38886 | 27802 |
| 45° | 46661 | 33515 | 19252 |
| 50° | 47846 | 26667 | 13208 |
| 55° | 48872 | 19549 | 10336 |
| 60° | 41307 | 13468 | 9602 |
| 65° | 33737 | 11360 | 9492 |
| 70° | 25295 | 10316 | 9374 |
| 75° | 16059 | 9275 | 8652 |
| 80° | 9185 | 8257 | 7422 |
| 85° | 7394 | 7394 | 5545 |



TEST NUMBER: P123725

CATALOG NUMBER: EL406927-TL409WHWW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.6 | 4.6 |
| 10°-20° | 83.3 | 13.0 |
| 20°-30° | 120.8 | 18.9 |
| 30°-40° | 131.4 | 20.5 |
| 40°-50° | 112.1 | 17.5 |
| 50°-60° | 85.0 | 13.3 |
| 60°-70° | 51.7 | 8.1 |
| 70°-80° | 21.5 | 3.4 |
| 80°-90° | 4.4 | 0.7 |
| 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° | 233.8 | 36.5 |
| 0°-40° | 365.2 | 57.1 |
| 0°-60° | 562.4 | 87.9 |
| 0°-90° | 640.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 640.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 313 | 313 | 313 | 313 | 313 | |
| 5° | 312 | 312 | 312 | 312 | 312 | 30 |
| 15° | 297 | 296 | 296 | 295 | 295 | 84 |
| 25° | 271 | 269 | 263 | 256 | 256 | 125 |
| 35° | 239 | 238 | 216 | 183 | 182 | 150 |
| 45° | 205 | 203 | 147 | 86 | 84 | 159 |
| 55° | 174 | 170 | 70 | 37 | 37 | 150 |
| 65° | 88 | 90 | 30 | 26 | 25 | 88 |
| 75° | 26 | 27 | 15 | 14 | 14 | 30 |
| 85° | 4 | 4 | 4 | 3 | 3 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P123725

CATALOG NUMBER: EL406927-TL409WHWW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 |
| 2.5° | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 |
| 5° | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 |
| 7.5° | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 |
| 10° | 307.2 | 307.2 | 307.2 | 306.2 | 307.2 | 307.2 | 306.2 | 306.2 | 306.2 | 306.2 | 306.2 |
| 12.5° | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 |
| 15° | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 296.2 | 297.2 | 296.2 | 296.2 | 296.2 |
| 17.5° | 291.3 | 291.3 | 291.3 | 291.3 | 291.3 | 291.3 | 291.3 | 291.3 | 291.3 | 290.3 | 290.3 |
| 20° | 285.3 | 285.3 | 285.3 | 285.3 | 285.3 | 285.3 | 284.3 | 284.3 | 284.3 | 284.3 | 284.3 |
| 22.5° | 278.3 | 278.3 | 278.3 | 278.3 | 278.3 | 278.3 | 277.4 | 278.3 | 277.4 | 277.4 | 277.4 |
| 25° | 271.4 | 270.4 | 270.4 | 270.4 | 271.4 | 271.4 | 270.4 | 270.4 | 270.4 | 269.4 | 269.4 |
| 27.5° | 263.4 | 263.4 | 263.4 | 263.4 | 263.4 | 263.4 | 262.4 | 262.4 | 262.4 | 262.4 | 261.4 |
| 30° | 255.5 | 255.5 | 255.5 | 255.5 | 255.5 | 255.5 | 255.5 | 255.5 | 254.5 | 254.5 | 253.5 |
| 32.5° | 247.5 | 246.5 | 246.5 | 246.5 | 247.5 | 247.5 | 246.5 | 246.5 | 246.5 | 245.5 | 244.5 |
| 35° | 238.6 | 238.6 | 238.6 | 238.6 | 238.6 | 238.6 | 238.6 | 238.6 | 238.6 | 237.6 | 236.6 |
| 37.5° | 230.6 | 229.6 | 229.6 | 229.6 | 230.6 | 230.6 | 230.6 | 230.6 | 229.6 | 228.6 | 228.6 |
| 40° | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 220.7 | 220.7 | 218.7 |
| 42.5° | 212.7 | 212.7 | 212.7 | 212.7 | 213.7 | 213.7 | 213.7 | 213.7 | 212.7 | 211.7 | 209.8 |
| 45° | 204.8 | 204.8 | 204.8 | 204.8 | 205.8 | 205.8 | 205.8 | 204.8 | 204.8 | 202.8 | 200.8 |
| 47.5° | 196.8 | 196.8 | 196.8 | 197.8 | 197.8 | 197.8 | 197.8 | 197.8 | 196.8 | 195.8 | 192.9 |
| 50° | 190.9 | 190.9 | 190.9 | 190.9 | 191.9 | 192.9 | 191.9 | 191.9 | 190.9 | 189.9 | 186.9 |
| 52.5° | 185.9 | 185.9 | 185.9 | 186.9 | 186.9 | 186.9 | 186.9 | 186.9 | 185.9 | 183.9 | 180.9 |
| 55° | 174.0 | 174.0 | 174.0 | 174.0 | 174.0 | 175.0 | 174.0 | 174.0 | 172.0 | 170.0 | 167.0 |
| 57.5° | 150.1 | 150.1 | 150.1 | 150.1 | 151.1 | 151.1 | 151.1 | 151.1 | 150.1 | 148.1 | 146.1 |
| 60° | 128.2 | 128.2 | 128.2 | 128.2 | 129.2 | 129.2 | 128.2 | 128.2 | 128.2 | 128.2 | 127.2 |
| 62.5° | 107.4 | 107.4 | 107.4 | 107.4 | 107.4 | 108.4 | 108.4 | 108.4 | 109.3 | 109.3 | 108.4 |
| 65° | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 89.5 | 89.5 | 89.5 | 90.5 | 90.5 | 91.5 |
| 67.5° | 70.6 | 70.6 | 70.6 | 70.6 | 70.6 | 70.6 | 71.6 | 71.6 | 72.6 | 72.6 | 73.6 |
| 70° | 53.7 | 53.7 | 53.7 | 53.7 | 53.7 | 53.7 | 53.7 | 53.7 | 54.7 | 55.7 | 55.7 |
| 72.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 39.8 | 39.8 |
| 75° | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 26.8 | 26.8 | 26.8 | 26.8 | 26.8 |
| 77.5° | 15.9 | 15.9 | 15.9 | 15.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 |
| 80° | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 10.9 | 10.9 | 10.9 | 9.9 | 10.9 |
| 82.5° | 6.0 | 6.0 | 7.0 | 6.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 85° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 87.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 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: P123725

CATALOG NUMBER: EL406927-TL409WHWW

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 |
| 2.5° | 313.1 | 313.1 | 313.1 | 313.1 | 314.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 314.1 |
| 5° | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 |
| 7.5° | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 |
| 10° | 307.2 | 306.2 | 306.2 | 306.2 | 307.2 | 306.2 | 306.2 | 306.2 | 306.2 | 306.2 | 306.2 |
| 12.5° | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 302.2 | 301.2 | 301.2 | 301.2 | 301.2 |
| 15° | 296.2 | 296.2 | 296.2 | 296.2 | 296.2 | 296.2 | 296.2 | 296.2 | 295.2 | 295.2 | 295.2 |
| 17.5° | 290.3 | 290.3 | 290.3 | 290.3 | 290.3 | 289.3 | 289.3 | 289.3 | 289.3 | 288.3 | 288.3 |
| 20° | 284.3 | 284.3 | 283.3 | 283.3 | 283.3 | 282.3 | 282.3 | 281.3 | 281.3 | 280.3 | 280.3 |
| 22.5° | 277.4 | 276.4 | 276.4 | 275.4 | 275.4 | 274.4 | 273.4 | 273.4 | 272.4 | 271.4 | 270.4 |
| 25° | 269.4 | 268.4 | 268.4 | 267.4 | 266.4 | 265.4 | 265.4 | 263.4 | 262.4 | 261.4 | 260.5 |
| 27.5° | 261.4 | 261.4 | 260.5 | 258.5 | 257.5 | 256.5 | 254.5 | 253.5 | 251.5 | 249.5 | 247.5 |
| 30° | 253.5 | 252.5 | 251.5 | 249.5 | 248.5 | 246.5 | 244.5 | 242.6 | 239.6 | 236.6 | 233.6 |
| 32.5° | 244.5 | 243.6 | 241.6 | 239.6 | 237.6 | 235.6 | 232.6 | 229.6 | 225.7 | 221.7 | 217.7 |
| 35° | 235.6 | 234.6 | 232.6 | 229.6 | 226.7 | 223.7 | 220.7 | 215.7 | 210.7 | 205.8 | 199.8 |
| 37.5° | 226.7 | 224.7 | 221.7 | 218.7 | 215.7 | 210.7 | 206.8 | 200.8 | 194.8 | 187.9 | 179.9 |
| 40° | 216.7 | 214.7 | 210.7 | 206.8 | 201.8 | 196.8 | 191.9 | 184.9 | 176.9 | 168.0 | 159.1 |
| 42.5° | 207.8 | 203.8 | 199.8 | 194.8 | 188.9 | 181.9 | 175.0 | 167.0 | 157.1 | 147.1 | 137.2 |
| 45° | 198.8 | 193.8 | 187.9 | 180.9 | 173.0 | 165.0 | 156.1 | 147.1 | 137.2 | 126.2 | 115.3 |
| 47.5° | 189.9 | 183.9 | 176.9 | 167.0 | 157.1 | 147.1 | 137.2 | 126.2 | 115.3 | 105.4 | 94.4 |
| 50° | 182.9 | 176.0 | 166.0 | 155.1 | 141.2 | 129.2 | 117.3 | 106.4 | 95.4 | 85.5 | 75.6 |
| 52.5° | 176.0 | 168.0 | 157.1 | 142.2 | 127.2 | 112.3 | 98.4 | 87.5 | 77.5 | 68.6 | 60.6 |
| 55° | 162.0 | 154.1 | 142.2 | 126.2 | 110.3 | 94.4 | 80.5 | 69.6 | 61.6 | 54.7 | 48.7 |
| 57.5° | 142.2 | 135.2 | 123.3 | 107.4 | 91.5 | 75.6 | 63.6 | 53.7 | 46.7 | 42.7 | 38.8 |
| 60° | 124.3 | 118.3 | 107.4 | 92.5 | 76.5 | 61.6 | 49.7 | 41.8 | 36.8 | 33.8 | 32.8 |
| 62.5° | 107.4 | 102.4 | 92.5 | 79.5 | 65.6 | 51.7 | 40.8 | 34.8 | 30.8 | 29.8 | 27.8 |
| 65° | 90.5 | 86.5 | 79.5 | 67.6 | 55.7 | 43.7 | 34.8 | 29.8 | 26.8 | 25.8 | 24.9 |
| 67.5° | 73.6 | 71.6 | 64.6 | 55.7 | 45.7 | 36.8 | 29.8 | 25.8 | 23.9 | 22.9 | 22.9 |
| 70° | 55.7 | 54.7 | 50.7 | 43.7 | 36.8 | 29.8 | 24.9 | 21.9 | 20.9 | 20.9 | 20.9 |
| 72.5° | 40.8 | 39.8 | 37.8 | 32.8 | 27.8 | 23.9 | 19.9 | 18.9 | 17.9 | 17.9 | 17.9 |
| 75° | 27.8 | 27.8 | 25.8 | 23.9 | 20.9 | 17.9 | 15.9 | 14.9 | 14.9 | 14.9 | 14.9 |
| 77.5° | 16.9 | 17.9 | 16.9 | 15.9 | 14.9 | 12.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 |
| 80° | 10.9 | 10.9 | 10.9 | 10.9 | 9.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| 82.5° | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 85° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 87.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 |
| 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: P123725

CATALOG NUMBER: EL406927-TL409WHWW

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 |
| 2.5° | 314.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 314.1 | 313.1 |
| 5° | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 | 312.1 |
| 7.5° | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 309.2 |
| 10° | 306.2 | 306.2 | 306.2 | 306.2 | 306.2 | 306.2 | 306.2 | 306.2 | 306.2 | 306.2 | 306.2 |
| 12.5° | 302.2 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 |
| 15° | 295.2 | 295.2 | 295.2 | 295.2 | 295.2 | 295.2 | 295.2 | 295.2 | 295.2 | 295.2 | 295.2 |
| 17.5° | 288.3 | 288.3 | 288.3 | 287.3 | 287.3 | 287.3 | 287.3 | 287.3 | 287.3 | 287.3 | 287.3 |
| 20° | 279.3 | 279.3 | 279.3 | 278.3 | 278.3 | 278.3 | 278.3 | 279.3 | 278.3 | 278.3 | 278.3 |
| 22.5° | 270.4 | 269.4 | 268.4 | 268.4 | 268.4 | 267.4 | 267.4 | 268.4 | 267.4 | 268.4 | 267.4 |
| 25° | 259.5 | 257.5 | 256.5 | 256.5 | 255.5 | 255.5 | 255.5 | 255.5 | 255.5 | 255.5 | 255.5 |
| 27.5° | 246.5 | 244.5 | 243.6 | 242.6 | 241.6 | 241.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 |
| 30° | 231.6 | 229.6 | 227.6 | 225.7 | 225.7 | 224.7 | 224.7 | 223.7 | 223.7 | 224.7 | 223.7 |
| 32.5° | 214.7 | 210.7 | 208.8 | 206.8 | 205.8 | 204.8 | 204.8 | 203.8 | 204.8 | 204.8 | 203.8 |
| 35° | 195.8 | 190.9 | 187.9 | 184.9 | 183.9 | 182.9 | 182.9 | 181.9 | 181.9 | 181.9 | 181.9 |
| 37.5° | 174.0 | 168.0 | 163.0 | 161.0 | 159.1 | 158.1 | 157.1 | 157.1 | 157.1 | 157.1 | 157.1 |
| 40° | 150.1 | 143.1 | 138.2 | 135.2 | 133.2 | 132.2 | 132.2 | 131.2 | 131.2 | 131.2 | 131.2 |
| 42.5° | 127.2 | 119.3 | 113.3 | 110.3 | 108.4 | 107.4 | 107.4 | 106.4 | 106.4 | 106.4 | 106.4 |
| 45° | 105.4 | 96.4 | 90.5 | 87.5 | 86.5 | 85.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 |
| 47.5° | 85.5 | 77.5 | 71.6 | 68.6 | 67.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 |
| 50° | 67.6 | 61.6 | 56.7 | 54.7 | 53.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 |
| 52.5° | 53.7 | 48.7 | 45.7 | 44.7 | 43.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 |
| 55° | 43.7 | 40.8 | 38.8 | 37.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 |
| 57.5° | 36.8 | 34.8 | 33.8 | 33.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 |
| 60° | 31.8 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 29.8 |
| 62.5° | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 |
| 65° | 24.9 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 24.9 | 24.9 |
| 67.5° | 22.9 | 22.9 | 23.9 | 23.9 | 23.9 | 22.9 | 22.9 | 22.9 | 22.9 | 22.9 | 22.9 |
| 70° | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 |
| 72.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 |
| 75° | 14.9 | 14.9 | 14.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 |
| 77.5° | 11.9 | 11.9 | 11.9 | 11.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| 80° | 8.9 | 8.9 | 8.9 | 8.9 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 82.5° | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 85° | 4.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 87.5° | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 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: P123725

CATALOG NUMBER: EL406927-TL409WHWW

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 313.1 | 313.1 | 313.1 | 313.1 |
| 2.5° | 313.1 | 313.1 | 313.1 | 314.1 |
| 5° | 312.1 | 312.1 | 312.1 | 312.1 |
| 7.5° | 309.2 | 309.2 | 309.2 | 311.1 |
| 10° | 306.2 | 306.2 | 306.2 | 306.2 |
| 12.5° | 301.2 | 301.2 | 301.2 | 302.2 |
| 15° | 295.2 | 295.2 | 295.2 | 295.2 |
| 17.5° | 287.3 | 287.3 | 288.3 | 288.3 |
| 20° | 278.3 | 278.3 | 279.3 | 279.3 |
| 22.5° | 267.4 | 268.4 | 268.4 | 268.4 |
| 25° | 255.5 | 255.5 | 255.5 | 256.5 |
| 27.5° | 240.6 | 241.6 | 241.6 | 241.6 |
| 30° | 223.7 | 223.7 | 224.7 | 224.7 |
| 32.5° | 203.8 | 204.8 | 204.8 | 204.8 |
| 35° | 181.9 | 182.9 | 182.9 | 181.9 |
| 37.5° | 157.1 | 157.1 | 158.1 | 158.1 |
| 40° | 131.2 | 131.2 | 132.2 | 132.2 |
| 42.5° | 106.4 | 106.4 | 107.4 | 107.4 |
| 45° | 84.5 | 84.5 | 84.5 | 84.5 |
| 47.5° | 66.6 | 66.6 | 66.6 | 66.6 |
| 50° | 52.7 | 52.7 | 52.7 | 52.7 |
| 52.5° | 42.7 | 42.7 | 42.7 | 42.7 |
| 55° | 36.8 | 36.8 | 36.8 | 36.8 |
| 57.5° | 32.8 | 32.8 | 32.8 | 32.8 |
| 60° | 29.8 | 29.8 | 29.8 | 29.8 |
| 62.5° | 27.8 | 27.8 | 27.8 | 27.8 |
| 65° | 24.9 | 24.9 | 24.9 | 24.9 |
| 67.5° | 22.9 | 22.9 | 22.9 | 22.9 |
| 70° | 19.9 | 19.9 | 19.9 | 19.9 |
| 72.5° | 16.9 | 16.9 | 16.9 | 16.9 |
| 75° | 13.9 | 13.9 | 13.9 | 13.9 |
| 77.5° | 10.9 | 10.9 | 10.9 | 10.9 |
| 80° | 8.0 | 8.0 | 8.0 | 8.0 |
| 82.5° | 6.0 | 6.0 | 6.0 | 6.0 |
| 85° | 3.0 | 3.0 | 3.0 | 3.0 |
| 87.5° | 1.0 | 1.0 | 1.0 | 1.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)