

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: E395833

Luminaire Tested: **H600-1625**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395833
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1625
Description: HALO RECESSED INC. H600-WALL WASH H.S.S.
Light Source: 150A21 2790 LUMENS
Ballast/Driver: -

Summary

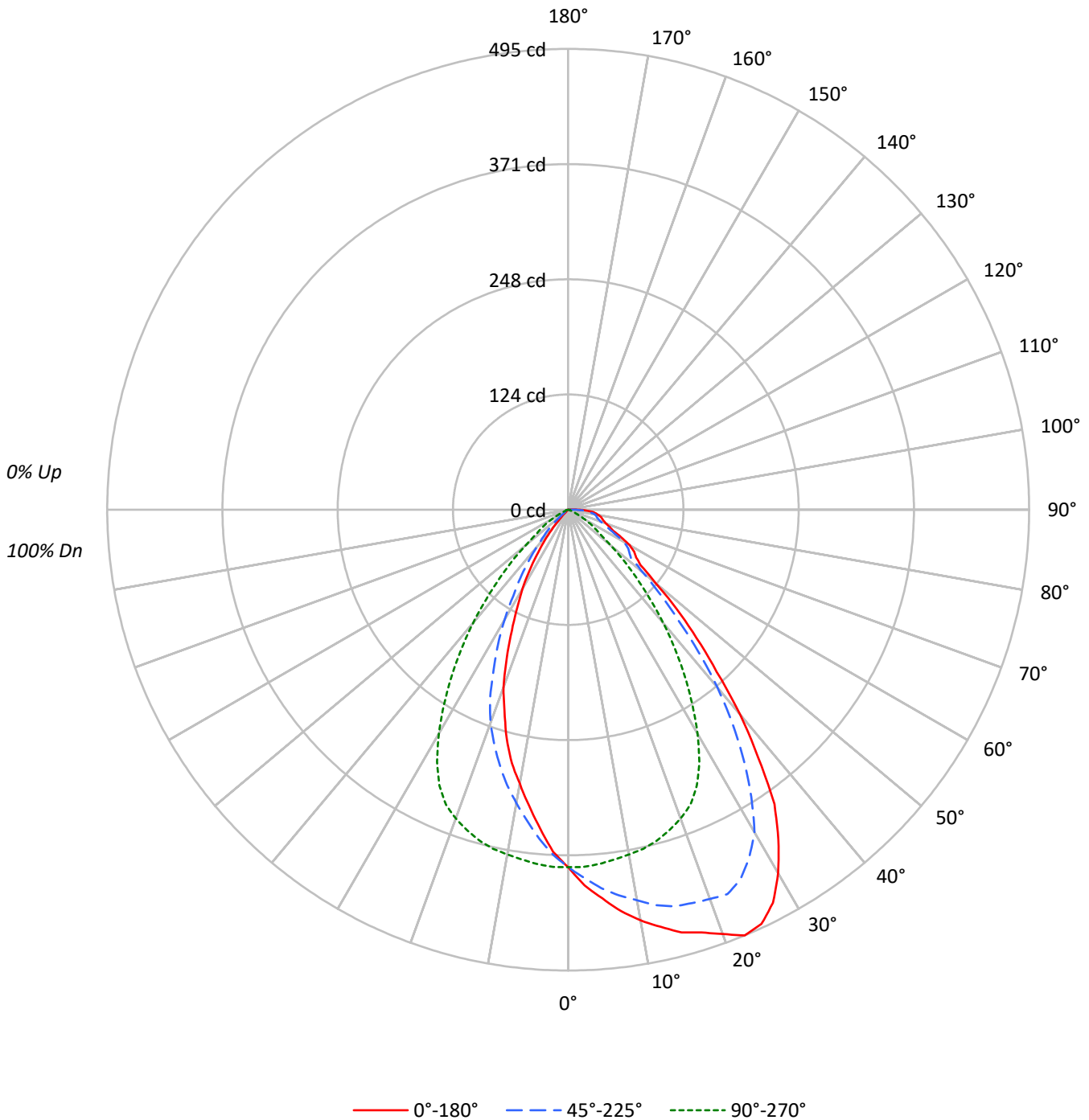
Lumens per Lamp: 2790 (1 lamp)
Luminaire Lumens: 581.0 lumens
Efficiency: 20.8%
Efficacy: 3.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.11 / 1.07
Luminous Opening: (L: 0 ' x W: -0.37 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
Input Voltage (V): NR
Input Current (A_{in}): 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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 25 | 25 | 25 | 25 | 24 | 24 | 24 | 24 | 23 | 23 | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | |
| 1 | 23 | 22 | 22 | 21 | 23 | 22 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 19 | 20 | 19 | 19 | 20 | 19 | 19 | 19 | 19 | 19 | 19 | 18 | |
| 2 | 22 | 20 | 19 | 18 | 21 | 20 | 19 | 18 | 19 | 18 | 18 | 19 | 18 | 17 | 18 | 17 | 17 | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | |
| 3 | 20 | 18 | 17 | 16 | 20 | 18 | 17 | 16 | 18 | 17 | 16 | 17 | 16 | 15 | 17 | 16 | 15 | 17 | 16 | 15 | 15 | 15 | 15 | 15 | 15 | |
| 4 | 19 | 17 | 15 | 14 | 18 | 17 | 15 | 14 | 16 | 15 | 14 | 16 | 15 | 14 | 15 | 14 | 14 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | |
| 5 | 18 | 15 | 14 | 13 | 17 | 15 | 14 | 13 | 15 | 14 | 13 | 14 | 13 | 13 | 14 | 13 | 12 | 14 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 6 | 17 | 14 | 13 | 12 | 16 | 14 | 13 | 12 | 14 | 12 | 11 | 13 | 12 | 11 | 13 | 12 | 11 | 13 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | |
| 7 | 16 | 13 | 12 | 11 | 15 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 11 | 10 | 12 | 11 | 10 | 12 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | |
| 8 | 15 | 12 | 11 | 10 | 14 | 12 | 11 | 10 | 12 | 11 | 10 | 12 | 10 | 10 | 11 | 10 | 10 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | |
| 9 | 14 | 11 | 10 | 9 | 14 | 11 | 10 | 9 | 11 | 10 | 9 | 11 | 10 | 9 | 11 | 10 | 9 | 11 | 10 | 9 | 9 | 9 | 9 | 9 | 8 | |
| 10 | 13 | 11 | 9 | 8 | 13 | 11 | 9 | 8 | 10 | 9 | 8 | 10 | 9 | 8 | 10 | 9 | 8 | 10 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--|-----|------|
| 0° | Luminous shape not found, | | |
| 5° | reference photometric report, or contact | | |
| 10° | the photometric lab for calculations. | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



TEST NUMBER: E395833
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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 36.2 | 6.2 | 1.3 |
| 10°-20° | 102.3 | 17.6 | 3.7 |
| 20°-30° | 145.0 | 25.0 | 5.2 |
| 30°-40° | 133.2 | 22.9 | 4.8 |
| 40°-50° | 78.3 | 13.5 | 2.8 |
| 50°-60° | 37.9 | 6.5 | 1.4 |
| 60°-70° | 22.7 | 3.9 | 0.8 |
| 70°-80° | 15.4 | 2.7 | 0.6 |
| 80°-90° | 9.4 | 1.6 | 0.3 |
| 90°-100° | 0.7 | 0.1 | 0.0 |
| 100°-110° | 0.0 | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 | 0.0 |
| 0°-30° | 283.6 | 48.8 | 10.2 |
| 0°-40° | 416.7 | 71.7 | 14.9 |
| 0°-60° | 532.9 | 91.7 | 19.1 |
| 0°-90° | 580.3 | 99.9 | 20.8 |
| 90°-120° | 0.7 | 0.1 | 0.0 |
| 90°-150° | 0.7 | 0.1 | 0.0 |
| 90°-180° | 1.0 | 0.2 | 0.0 |
| 0°-180° | 581.0 | 100.0 | 20.8 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0° | 384 | 384 | 384 | 384 | 384 | |
| 5° | 419 | 408 | 382 | 355 | 344 | 41 |
| 15° | 470 | 441 | 368 | 284 | 255 | 133 |
| 25° | 491 | 438 | 327 | 189 | 143 | 223 |
| 35° | 386 | 329 | 218 | 90 | 56 | 235 |
| 45° | 195 | 166 | 104 | 30 | 3 | 152 |
| 55° | 89 | 80 | 35 | 4 | 2 | 83 |
| 65° | 53 | 48 | 8 | 1 | 1 | 56 |
| 75° | 38 | 32 | 2 | 1 | 1 | 40 |
| 85° | 26 | 21 | 1 | 0 | 0 | 22 |
| 90° | 11 | 4 | 0 | 0 | 0 | 6 |
| 95° | 0 | 0 | 0 | 0 | 0 | 2 |
| 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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 CATALOG NUMBER: H600-1625

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 22.5° | 25° | 35° | 45° | 55° | 65° | 67.5° | 75° |
|-------|-----|-----|-----|-------|-----|-----|-----|-----|-----|-------|-----|
| 0° | 384 | 384 | 384 | 384 | 384 | 384 | 384 | 384 | 384 | 384 | 384 |
| 2.5° | 404 | 400 | 403 | 400 | 400 | 400 | 396 | 394 | 392 | 392 | 388 |
| 5° | 419 | 417 | 417 | 416 | 414 | 413 | 408 | 405 | 400 | 398 | 392 |
| 7.5° | 435 | 432 | 431 | 429 | 428 | 424 | 418 | 412 | 405 | 403 | 395 |
| 10° | 448 | 445 | 443 | 440 | 439 | 435 | 426 | 419 | 409 | 407 | 397 |
| 12.5° | 459 | 455 | 454 | 450 | 450 | 443 | 435 | 425 | 414 | 411 | 399 |
| 15° | 470 | 465 | 463 | 459 | 457 | 451 | 441 | 430 | 417 | 413 | 399 |
| 17.5° | 476 | 471 | 468 | 462 | 461 | 453 | 443 | 430 | 416 | 412 | 397 |
| 20° | 485 | 481 | 476 | 469 | 467 | 456 | 445 | 433 | 416 | 412 | 395 |
| 22.5° | 495 | 491 | 485 | 476 | 473 | 461 | 447 | 434 | 416 | 411 | 390 |
| 25° | 491 | 486 | 480 | 472 | 468 | 455 | 438 | 424 | 402 | 398 | 374 |
| 27.5° | 476 | 471 | 468 | 458 | 455 | 442 | 421 | 406 | 382 | 376 | 352 |
| 30° | 451 | 448 | 443 | 434 | 432 | 417 | 400 | 377 | 355 | 348 | 327 |
| 32.5° | 420 | 416 | 412 | 405 | 400 | 385 | 366 | 343 | 322 | 315 | 297 |
| 35° | 386 | 379 | 377 | 365 | 364 | 351 | 329 | 310 | 287 | 284 | 261 |
| 37.5° | 335 | 329 | 330 | 323 | 321 | 309 | 290 | 269 | 250 | 244 | 225 |
| 40° | 287 | 286 | 278 | 279 | 275 | 264 | 249 | 228 | 213 | 206 | 192 |
| 42.5° | 236 | 238 | 235 | 231 | 227 | 220 | 207 | 190 | 176 | 175 | 160 |
| 45° | 195 | 195 | 190 | 186 | 186 | 178 | 166 | 159 | 145 | 142 | 130 |
| 47.5° | 158 | 157 | 153 | 152 | 150 | 142 | 133 | 123 | 114 | 109 | 102 |
| 50° | 122 | 122 | 120 | 118 | 115 | 110 | 104 | 93 | 84 | 81 | 77 |
| 52.5° | 98 | 97 | 97 | 96 | 96 | 93 | 85 | 77 | 64 | 64 | 56 |
| 55° | 89 | 89 | 88 | 88 | 88 | 86 | 80 | 70 | 59 | 56 | 48 |
| 57.5° | 84 | 84 | 84 | 83 | 82 | 80 | 76 | 67 | 55 | 52 | 42 |
| 60° | 76 | 76 | 76 | 75 | 74 | 72 | 69 | 62 | 51 | 48 | 38 |
| 62.5° | 64 | 63 | 62 | 62 | 62 | 62 | 57 | 52 | 43 | 40 | 31 |
| 65° | 53 | 53 | 52 | 53 | 52 | 51 | 48 | 43 | 35 | 33 | 25 |
| 67.5° | 48 | 47 | 47 | 46 | 46 | 44 | 41 | 37 | 31 | 29 | 21 |
| 70° | 43 | 43 | 42 | 42 | 42 | 40 | 37 | 33 | 27 | 25 | 18 |
| 72.5° | 40 | 40 | 40 | 39 | 39 | 37 | 34 | 31 | 25 | 23 | 16 |
| 75° | 38 | 38 | 37 | 37 | 36 | 35 | 32 | 29 | 23 | 22 | 15 |
| 77.5° | 36 | 36 | 35 | 35 | 35 | 33 | 31 | 27 | 22 | 20 | 14 |
| 80° | 33 | 33 | 33 | 32 | 32 | 31 | 29 | 25 | 20 | 18 | 13 |
| 82.5° | 30 | 30 | 30 | 29 | 29 | 28 | 25 | 22 | 17 | 16 | 11 |
| 85° | 26 | 25 | 25 | 25 | 24 | 23 | 21 | 18 | 14 | 13 | 8 |
| 87.5° | 19 | 18 | 18 | 18 | 18 | 16 | 15 | 12 | 9 | 8 | 5 |
| 90° | 11 | 11 | 9 | 7 | 5 | 5 | 4 | 4 | 3 | 3 | 2 |
| 95° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 22.5° | 25° | 35° | 45° | 55° | 65° | 67.5° | 75° |
|------|----|----|-----|-------|-----|-----|-----|-----|-----|-------|-----|
| 135° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 85° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-----|-----|--------|------|--------|------|
| 0° | 384 | 384 | 384 | 384 | 384 | 384 |
| 2.5° | 385 | 384 | 377 | 371 | 368 | 368 |
| 5° | 386 | 382 | 367 | 355 | 346 | 344 |
| 7.5° | 385 | 379 | 357 | 337 | 324 | 321 |
| 10° | 384 | 376 | 345 | 320 | 305 | 299 |
| 12.5° | 382 | 373 | 333 | 303 | 284 | 279 |
| 15° | 380 | 368 | 322 | 284 | 261 | 255 |
| 17.5° | 374 | 361 | 308 | 264 | 240 | 227 |
| 20° | 368 | 353 | 289 | 244 | 212 | 203 |
| 22.5° | 360 | 343 | 272 | 219 | 183 | 172 |
| 25° | 345 | 327 | 248 | 189 | 158 | 143 |
| 27.5° | 322 | 305 | 222 | 163 | 132 | 118 |
| 30° | 293 | 278 | 199 | 137 | 106 | 98 |
| 32.5° | 263 | 248 | 172 | 110 | 84 | 77 |
| 35° | 235 | 218 | 145 | 90 | 67 | 56 |
| 37.5° | 201 | 188 | 121 | 70 | 48 | 41 |
| 40° | 168 | 159 | 99 | 53 | 33 | 25 |
| 42.5° | 141 | 130 | 75 | 39 | 21 | 11 |
| 45° | 114 | 104 | 56 | 30 | 11 | 3 |
| 47.5° | 86 | 81 | 42 | 19 | 4 | 3 |
| 50° | 63 | 59 | 31 | 11 | 3 | 3 |
| 52.5° | 49 | 44 | 23 | 6 | 2 | 2 |
| 55° | 39 | 35 | 16 | 4 | 2 | 2 |
| 57.5° | 32 | 28 | 9 | 2 | 2 | 2 |
| 60° | 26 | 20 | 5 | 2 | 2 | 2 |
| 62.5° | 18 | 12 | 3 | 2 | 2 | 2 |
| 65° | 12 | 8 | 2 | 1 | 1 | 1 |
| 67.5° | 9 | 4 | 2 | 1 | 1 | 1 |
| 70° | 7 | 3 | 1 | 1 | 1 | 1 |
| 72.5° | 6 | 2 | 1 | 1 | 1 | 1 |
| 75° | 6 | 2 | 1 | 1 | 1 | 1 |
| 77.5° | 5 | 2 | 1 | 1 | 1 | 1 |
| 80° | 5 | 2 | 1 | 1 | 1 | 1 |
| 82.5° | 4 | 1 | 1 | 1 | 1 | 1 |
| 85° | 3 | 1 | 0 | 0 | 0 | 0 |
| 87.5° | 2 | 1 | 0 | 0 | 0 | 0 |
| 90° | 1 | 0 | 0 | 0 | 0 | 0 |
| 95° | 0 | 0 | 0 | 0 | 0 | 0 |
| 100° | 0 | 0 | 0 | 0 | 0 | 0 |
| 105° | 0 | 0 | 0 | 0 | 0 | 0 |
| 110° | 0 | 0 | 0 | 0 | 0 | 0 |
| 115° | 0 | 0 | 0 | 0 | 0 | 0 |
| 120° | 0 | 0 | 0 | 0 | 0 | 0 |
| 125° | 0 | 0 | 0 | 0 | 0 | 0 |
| 130° | 0 | 0 | 0 | 0 | 0 | 0 |



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CATALOG NUMBER: H600-1625

CANDELA DISTRIBUTION (continued):

| | 85° | 90° | 112.5° | 135° | 157.5° | 180° |
|------|-----|-----|--------|------|--------|------|
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 140° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 150° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 160° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 170° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)