

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P595512

Luminaire Tested: **ISW-PA1A-AMB-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-PA1A-AMB-U-T4W
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1345.1 lumens
Efficiency: N/A
Efficacy: 42.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

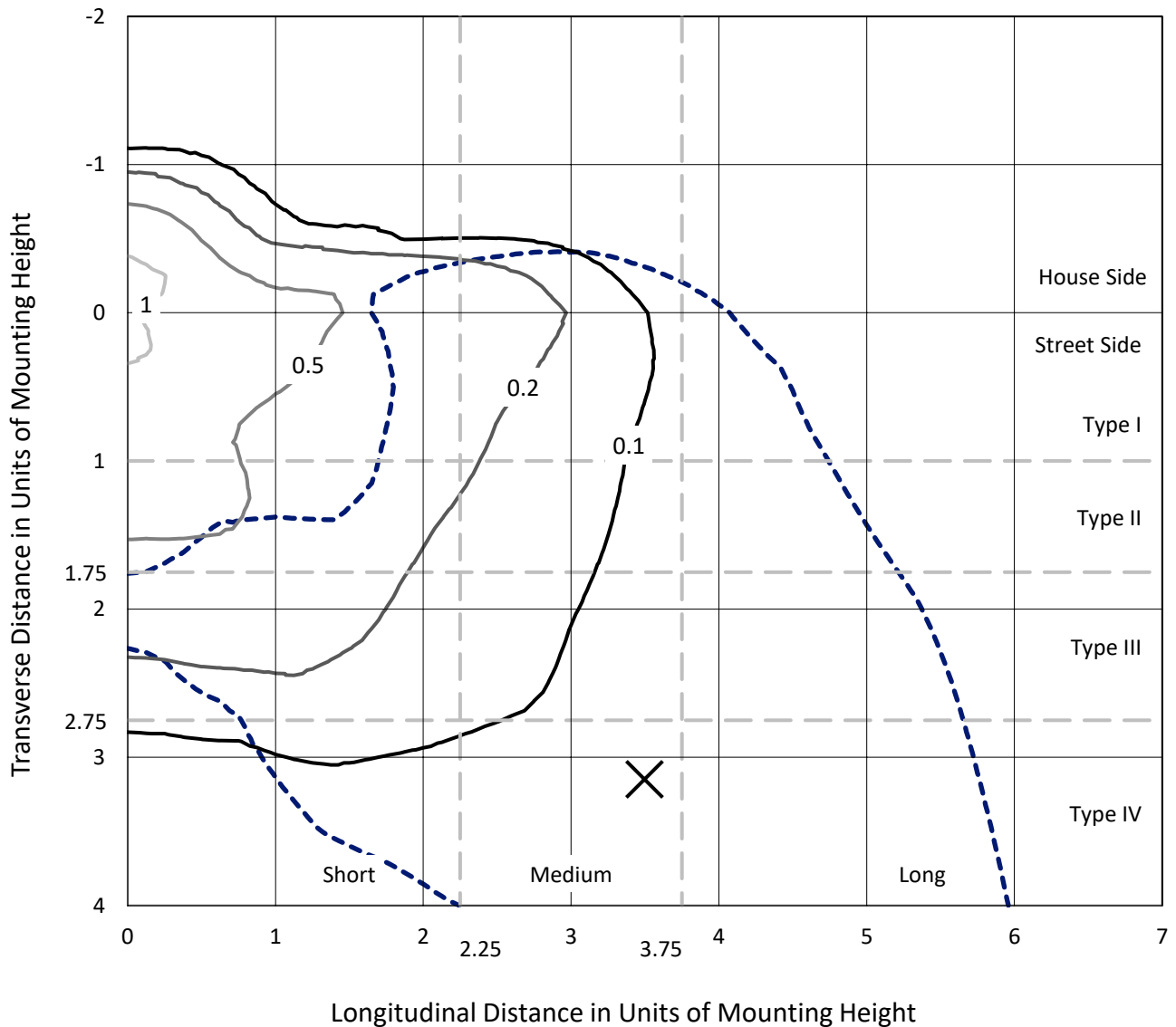
Input Watts (W): 31.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

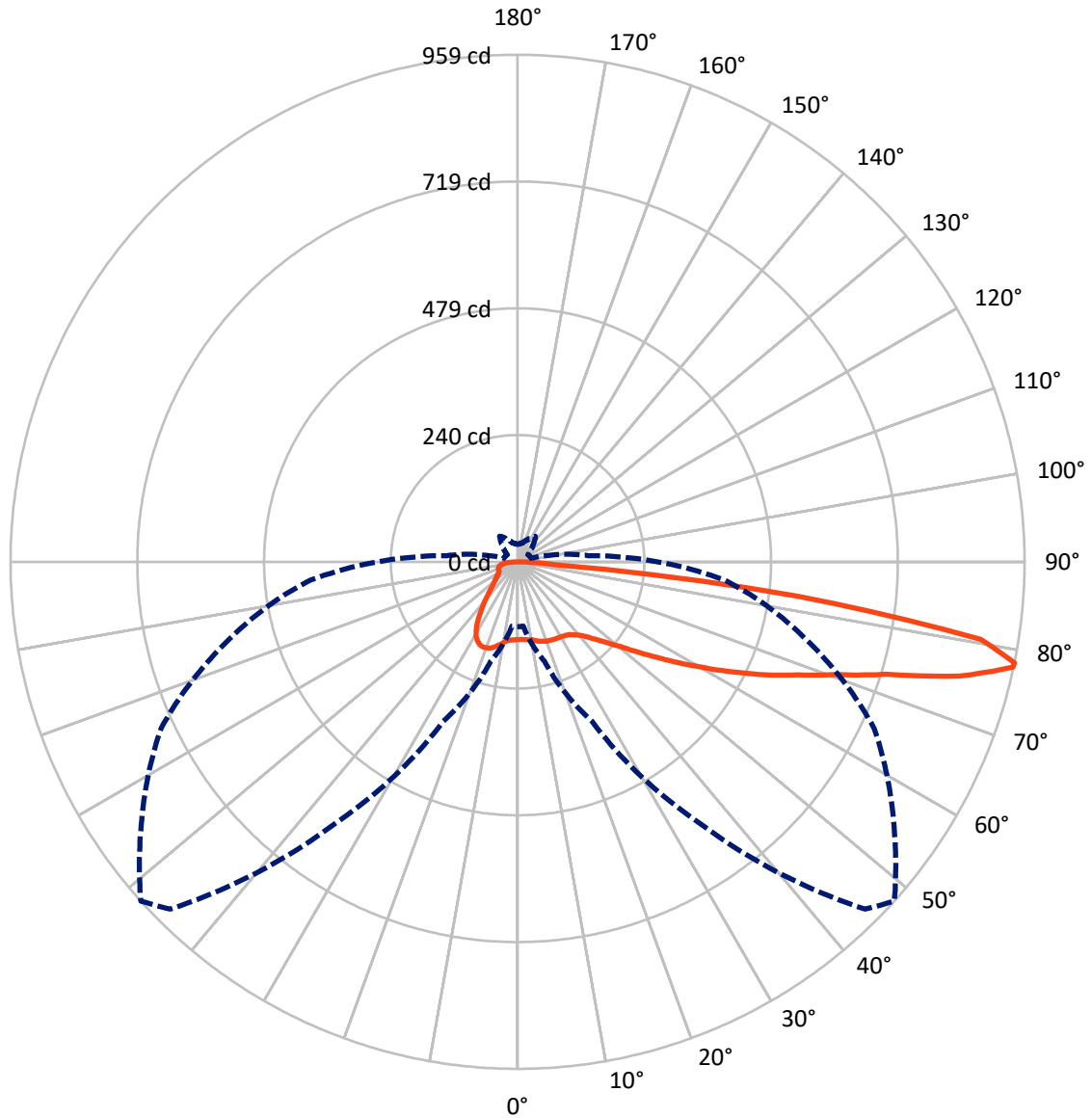
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 78-Deg Vertical

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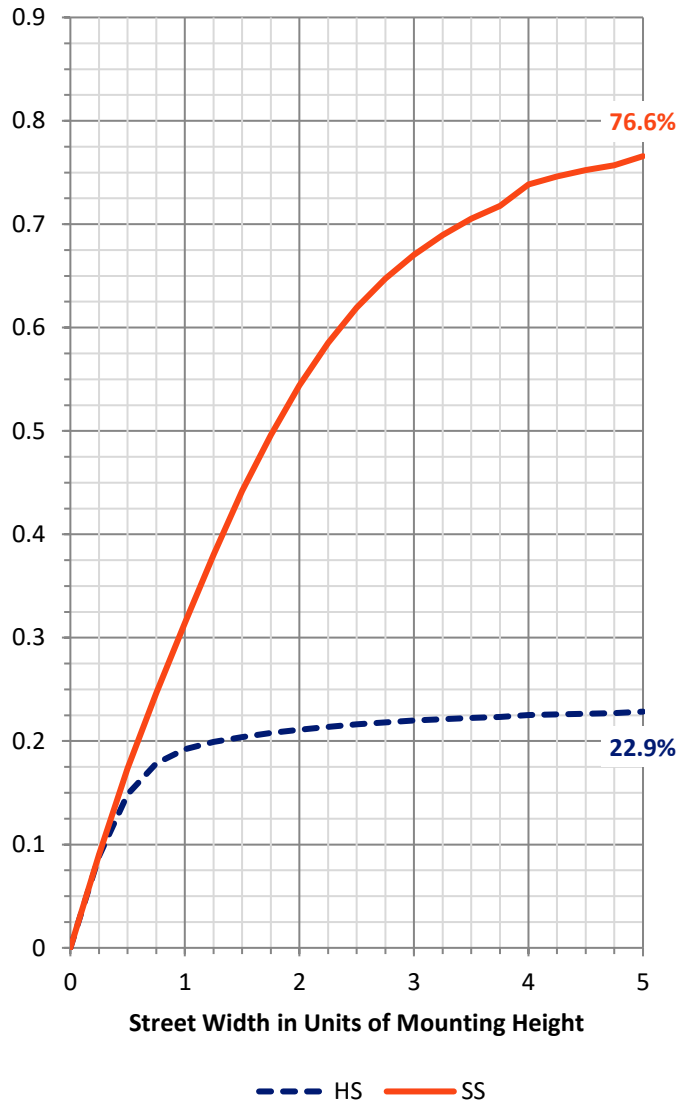
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 314.2 | 0.0 | 314.2 |
| | % Fixture | 23.4 | 0.0 | 23.4 |
| Street Side | Lumens | 1030.9 | 0.0 | 1030.9 |
| | % Fixture | 76.6 | 0.0 | 76.6 |
| Total | Lumens | 1345.1 | 0.0 | 1345.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 14.3 | 1.1 |
| 10°-20° | 45.5 | 3.4 |
| 20°-30° | 76.8 | 5.7 |
| 30°-40° | 100.8 | 7.5 |
| 40°-50° | 132.9 | 9.9 |
| 50°-60° | 215.7 | 16.0 |
| 60°-70° | 336.9 | 25.0 |
| 70°-80° | 355.7 | 26.4 |
| 80°-90° | 66.4 | 4.9 |
| 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°-90° | 1345.1 | 100.0 |
| 0°-180° | 1345.1 | 100.0 |

Coefficient of Utilization

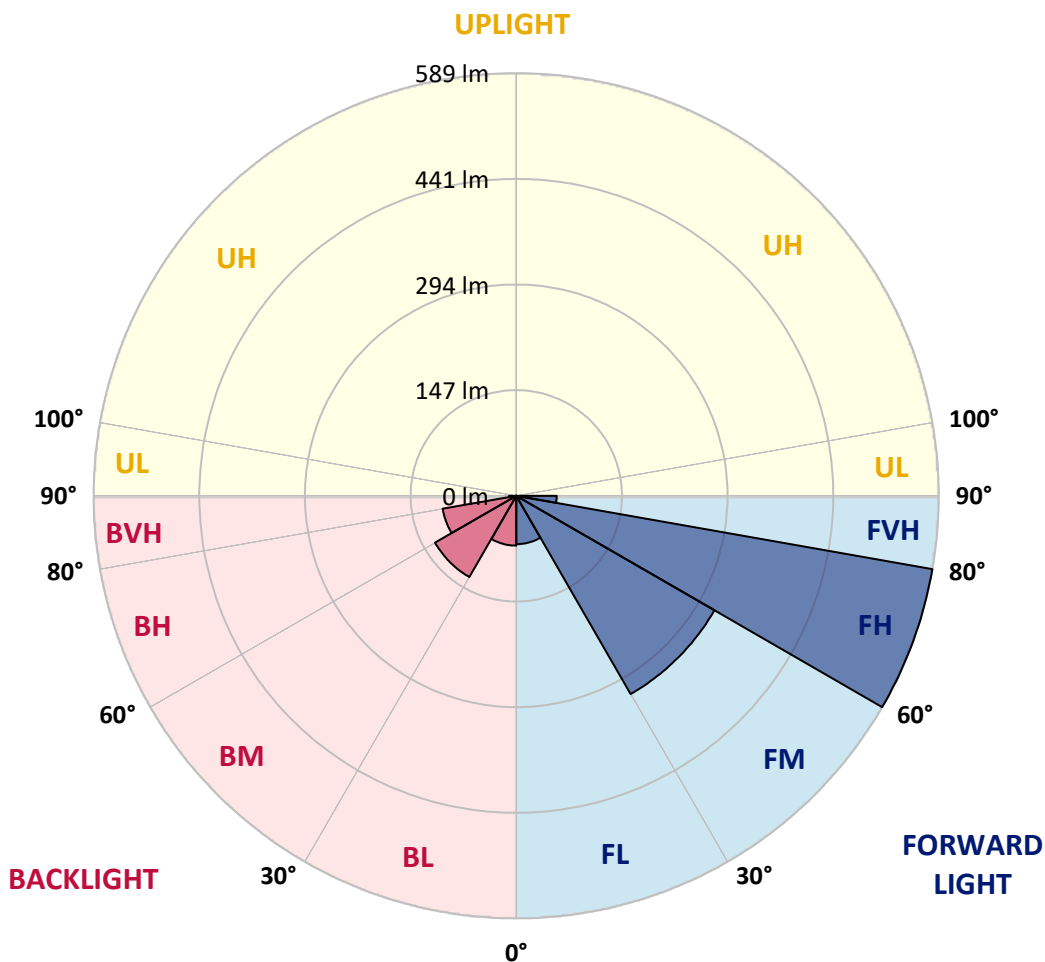


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 67.3 | 5.0 | | | |
| FM (30°-60°) | 318.8 | 23.7 | | | |
| FH (60°-80°) | 588.6 | 43.8 | | | G0/660 |
| FVH (80°-90°) | 56.3 | 4.2 | | | G1/100 |
| BL (0°-30°) | 69.4 | 5.2 | B0/110 | | |
| BM (30°-60°) | 130.6 | 9.7 | B0/220 | | |
| BH (60°-80°) | 104.0 | 7.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 10.1 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0° | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 |
| 2.5° | 149 | 149 | 149 | 148 | 148 | 148 | 147 | 147 | 147 | 146 | 146 |
| 5° | 154 | 154 | 153 | 152 | 150 | 149 | 148 | 146 | 145 | 144 | 144 |
| 7.5° | 159 | 159 | 158 | 155 | 153 | 150 | 149 | 147 | 144 | 143 | 143 |
| 10° | 164 | 164 | 162 | 159 | 156 | 152 | 150 | 149 | 146 | 144 | 143 |
| 12.5° | 168 | 168 | 167 | 163 | 159 | 155 | 153 | 152 | 149 | 146 | 144 |
| 15° | 171 | 171 | 170 | 165 | 160 | 157 | 156 | 154 | 151 | 148 | 145 |
| 17.5° | 172 | 172 | 172 | 166 | 161 | 160 | 158 | 158 | 154 | 151 | 147 |
| 20° | 171 | 171 | 172 | 166 | 162 | 161 | 160 | 160 | 157 | 153 | 149 |
| 22.5° | 170 | 169 | 171 | 164 | 161 | 162 | 161 | 162 | 161 | 157 | 151 |
| 25° | 167 | 167 | 169 | 162 | 161 | 162 | 162 | 164 | 164 | 160 | 154 |
| 27.5° | 166 | 166 | 168 | 162 | 161 | 163 | 163 | 166 | 167 | 164 | 158 |
| 30° | 167 | 167 | 168 | 162 | 162 | 164 | 164 | 167 | 170 | 168 | 162 |
| 32.5° | 170 | 170 | 171 | 165 | 164 | 166 | 166 | 169 | 173 | 174 | 167 |
| 35° | 176 | 175 | 177 | 170 | 169 | 170 | 169 | 173 | 178 | 180 | 174 |
| 37.5° | 184 | 184 | 187 | 177 | 175 | 175 | 175 | 179 | 184 | 187 | 182 |
| 40° | 201 | 200 | 206 | 189 | 183 | 184 | 183 | 187 | 193 | 196 | 193 |
| 42.5° | 233 | 234 | 239 | 206 | 195 | 196 | 194 | 198 | 205 | 209 | 208 |
| 45° | 274 | 276 | 282 | 234 | 213 | 211 | 210 | 213 | 221 | 227 | 228 |
| 47.5° | 328 | 324 | 314 | 272 | 239 | 230 | 229 | 233 | 242 | 250 | 255 |
| 50° | 376 | 374 | 361 | 324 | 278 | 253 | 252 | 257 | 269 | 280 | 290 |
| 52.5° | 411 | 410 | 412 | 383 | 326 | 285 | 282 | 288 | 304 | 316 | 327 |
| 55° | 426 | 426 | 442 | 441 | 380 | 324 | 319 | 322 | 341 | 354 | 368 |
| 57.5° | 442 | 442 | 465 | 487 | 441 | 370 | 360 | 365 | 386 | 396 | 415 |
| 60° | 471 | 473 | 495 | 533 | 495 | 414 | 407 | 409 | 430 | 444 | 472 |
| 62.5° | 518 | 519 | 547 | 585 | 551 | 463 | 459 | 457 | 478 | 492 | 534 |
| 65° | 508 | 520 | 591 | 637 | 612 | 522 | 515 | 505 | 530 | 543 | 608 |
| 67.5° | 444 | 455 | 570 | 680 | 670 | 583 | 571 | 559 | 581 | 597 | 692 |
| 70° | 393 | 403 | 477 | 692 | 706 | 648 | 639 | 617 | 632 | 646 | 786 |
| 72.5° | 370 | 377 | 433 | 659 | 728 | 736 | 728 | 687 | 691 | 693 | 820 |
| 75° | 319 | 319 | 374 | 565 | 736 | 865 | 864 | 800 | 757 | 695 | 714 |
| 77.5° | 156 | 167 | 224 | 386 | 644 | 933 | 958 | 869 | 761 | 600 | 462 |
| 78° | 123 | 122 | 194 | 333 | 606 | 929 | 959 | 869 | 744 | 564 | 392 |
| 80° | 31 | 32 | 56 | 133 | 414 | 827 | 888 | 775 | 589 | 375 | 188 |
| 82.5° | 15 | 16 | 27 | 49 | 116 | 438 | 533 | 441 | 255 | 113 | 28 |
| 85° | 8 | 8 | 16 | 30 | 66 | 59 | 75 | 92 | 66 | 28 | 10 |
| 87.5° | 3 | 3 | 8 | 13 | 25 | 15 | 15 | 21 | 17 | 11 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-----|-----|------|------|------|------|------|------|------|------|------|
| 0° | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 |
| 2.5° | 146 | 147 | 147 | 147 | 147 | 148 | 148 | 148 | 149 | 148 | 149 |
| 5° | 144 | 144 | 145 | 146 | 147 | 149 | 150 | 151 | 152 | 153 | 152 |
| 7.5° | 143 | 143 | 144 | 146 | 149 | 150 | 152 | 155 | 157 | 158 | 157 |
| 10° | 143 | 144 | 146 | 149 | 152 | 155 | 158 | 160 | 162 | 163 | 163 |
| 12.5° | 144 | 145 | 148 | 153 | 158 | 161 | 163 | 164 | 166 | 168 | 168 |
| 15° | 146 | 147 | 152 | 158 | 163 | 166 | 168 | 168 | 170 | 172 | 172 |
| 17.5° | 147 | 149 | 156 | 164 | 169 | 171 | 171 | 172 | 172 | 175 | 175 |
| 20° | 149 | 151 | 160 | 169 | 172 | 173 | 173 | 173 | 174 | 177 | 177 |
| 22.5° | 151 | 153 | 164 | 172 | 174 | 174 | 174 | 173 | 174 | 177 | 177 |
| 25° | 154 | 156 | 167 | 173 | 173 | 172 | 172 | 172 | 173 | 176 | 176 |
| 27.5° | 157 | 160 | 170 | 172 | 169 | 167 | 168 | 169 | 170 | 173 | 173 |
| 30° | 161 | 164 | 172 | 168 | 161 | 159 | 160 | 162 | 165 | 167 | 167 |
| 32.5° | 166 | 169 | 173 | 161 | 149 | 146 | 148 | 154 | 157 | 159 | 159 |
| 35° | 173 | 175 | 174 | 152 | 134 | 130 | 133 | 139 | 144 | 147 | 147 |
| 37.5° | 181 | 183 | 174 | 138 | 117 | 113 | 116 | 121 | 126 | 128 | 130 |
| 40° | 193 | 194 | 175 | 125 | 102 | 97 | 98 | 100 | 103 | 105 | 105 |
| 42.5° | 207 | 210 | 175 | 110 | 88 | 81 | 80 | 81 | 80 | 80 | 80 |
| 45° | 229 | 232 | 177 | 97 | 77 | 70 | 68 | 66 | 63 | 61 | 61 |
| 47.5° | 259 | 262 | 179 | 87 | 68 | 61 | 59 | 57 | 53 | 49 | 48 |
| 50° | 297 | 299 | 181 | 79 | 61 | 55 | 54 | 51 | 47 | 43 | 42 |
| 52.5° | 342 | 339 | 183 | 72 | 54 | 52 | 50 | 47 | 42 | 38 | 38 |
| 55° | 383 | 377 | 180 | 64 | 48 | 48 | 47 | 43 | 38 | 36 | 36 |
| 57.5° | 441 | 433 | 175 | 57 | 44 | 45 | 44 | 41 | 38 | 37 | 37 |
| 60° | 514 | 504 | 169 | 51 | 41 | 42 | 43 | 41 | 40 | 39 | 39 |
| 62.5° | 622 | 587 | 144 | 47 | 38 | 40 | 44 | 45 | 43 | 44 | 44 |
| 65° | 739 | 667 | 106 | 43 | 36 | 41 | 48 | 49 | 46 | 47 | 47 |
| 67.5° | 858 | 718 | 66 | 39 | 34 | 41 | 54 | 53 | 47 | 46 | 44 |
| 70° | 923 | 714 | 48 | 36 | 32 | 42 | 59 | 55 | 46 | 44 | 42 |
| 72.5° | 849 | 612 | 40 | 33 | 30 | 41 | 62 | 54 | 44 | 41 | 39 |
| 75° | 626 | 406 | 34 | 30 | 27 | 41 | 62 | 52 | 42 | 38 | 37 |
| 77.5° | 319 | 177 | 28 | 26 | 24 | 39 | 60 | 48 | 38 | 35 | 34 |
| 78° | 265 | 134 | 27 | 25 | 24 | 39 | 59 | 47 | 37 | 34 | 33 |
| 80° | 113 | 53 | 22 | 21 | 21 | 36 | 55 | 43 | 33 | 30 | 28 |
| 82.5° | 33 | 20 | 16 | 16 | 17 | 32 | 49 | 37 | 29 | 24 | 23 |
| 85° | 11 | 9 | 11 | 11 | 12 | 25 | 41 | 30 | 20 | 15 | 14 |
| 87.5° | 4 | 5 | 5 | 5 | 6 | 13 | 23 | 16 | 10 | 6 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)