Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: STREETWORKS

Report Number: P560043

Luminaire Tested: **SDL-PA1-20-740-U-T4W**

Issue Date: 7/26/2021

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P560043 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Issue Date: | 7/26/2021 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | SDL-PA1-20-740-U-T4W |
| Description: | Springdale<br>(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 2708.9 lumens |
| Efficiency: | N/A |
| Efficacy: | 129.0 lumens/watt |
| Luminous Opening: | Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 1.08') |
| IES Classification: | Type IV - Medium |
| BUG Rating: | B1 - U0 - G1 |

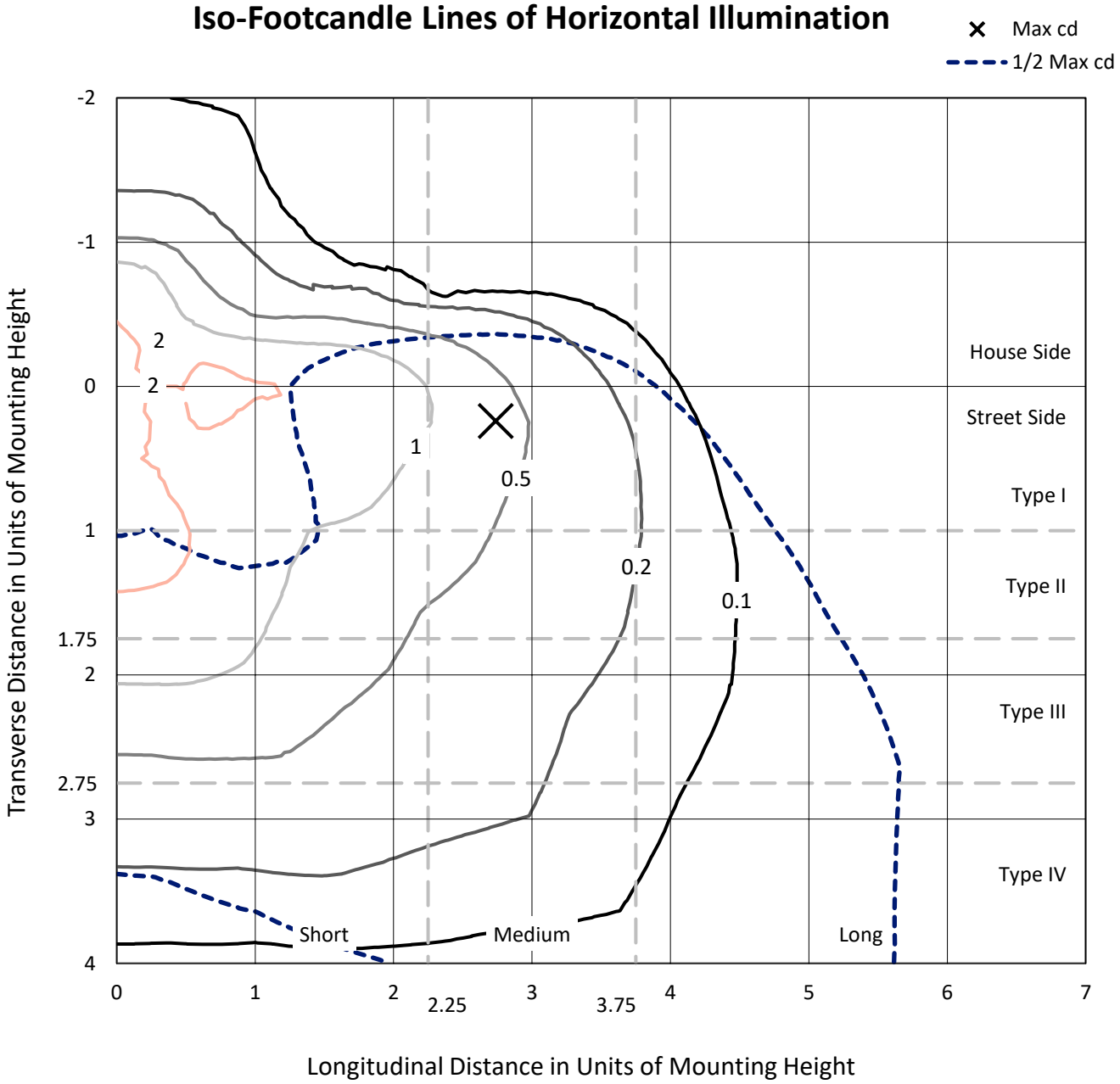
| | |
|---|---|
| Input Watts (W): | 21 |
| Input Voltage (V): | NR |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | NR |
| Total Harmonic Distortion (THDi): | NR |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 24 FT |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P560043
CATALOG NUMBER: SDL-PA1-20-740-U-T4W

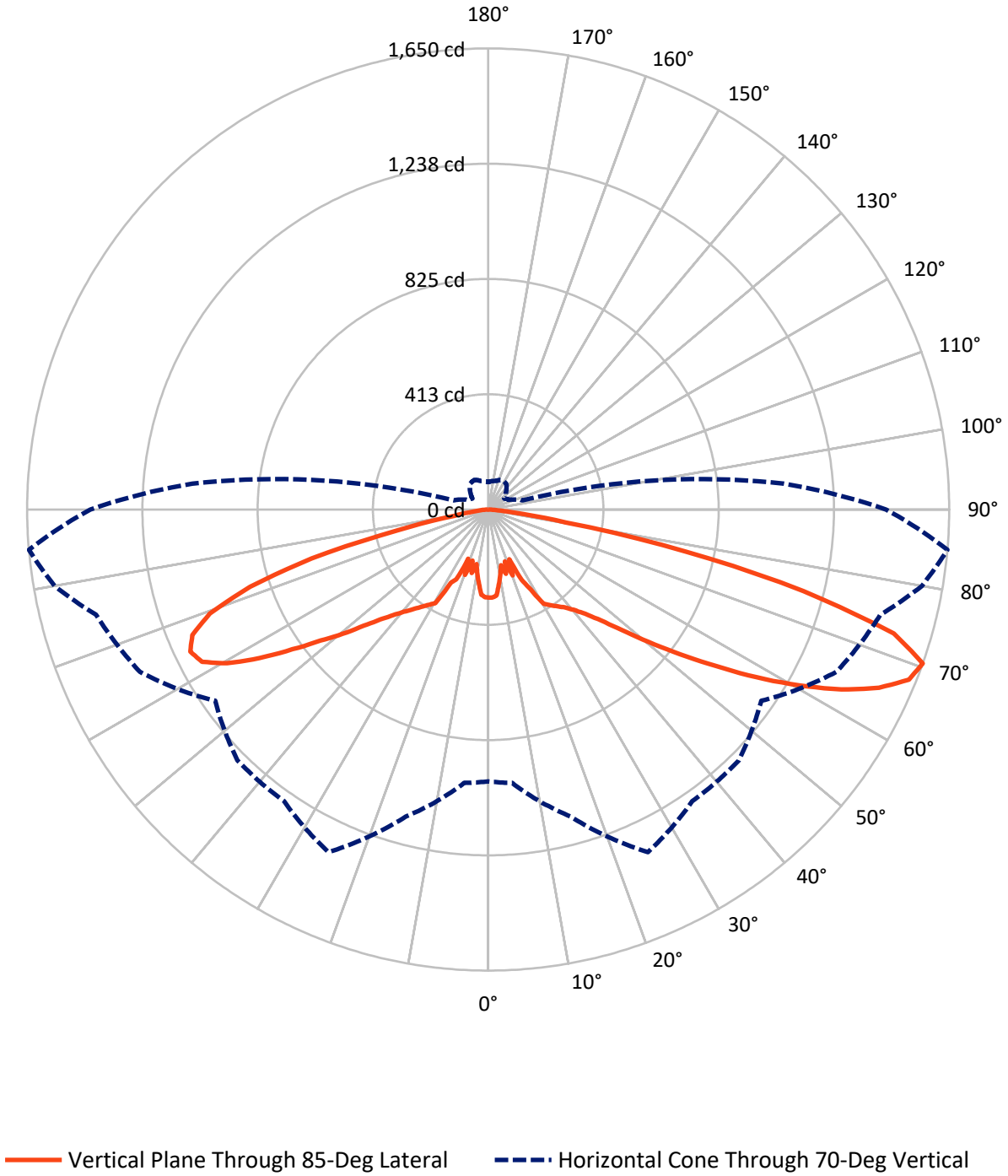
## Iso-Footcandle Lines of Horizontal Illumination




Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
Type IV - Medium - N/A

REPORT NUMBER: P560043
CATALOG NUMBER: SDL-PA1-20-740-U-T4W

## Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

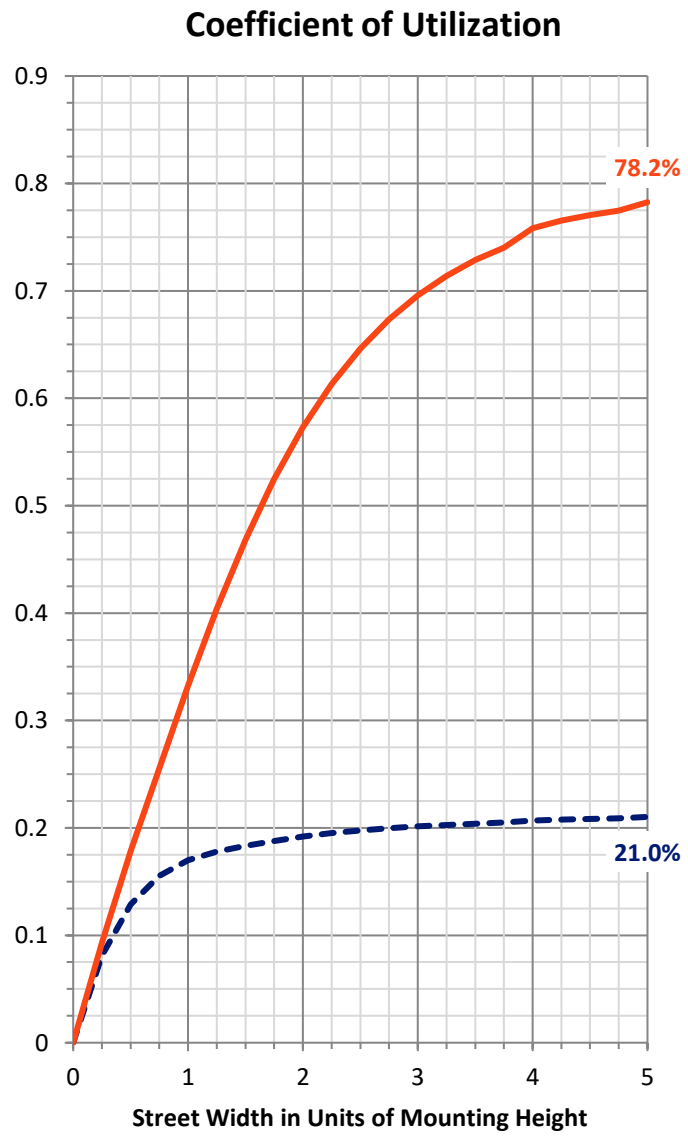
REPORT NUMBER: P560043
CATALOG NUMBER: SDL-PA1-20-740-U-T4W

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 582.4 | 0.0 | 582.4 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| **Street Side** | Lumens | 2126.5 | 0.0 | 2126.5 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| **Total** | Lumens | 2708.9 | 0.0 | 2708.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 26.2 | 1.0 |
| 10°-20° | 65.9 | 2.4 |
| 20°-30° | 115.3 | 4.3 |
| 30°-40° | 203.0 | 7.5 |
| 40°-50° | 306.3 | 11.3 |
| 50°-60° | 487.1 | 18.0 |
| 60°-70° | 714.3 | 26.4 |
| 70°-80° | 669.9 | 24.7 |
| 80°-90° | 121.0 | 4.5 |
| 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° | 2708.9 | 100.0 |
| 0°-180° | 2708.9 | 100.0 |

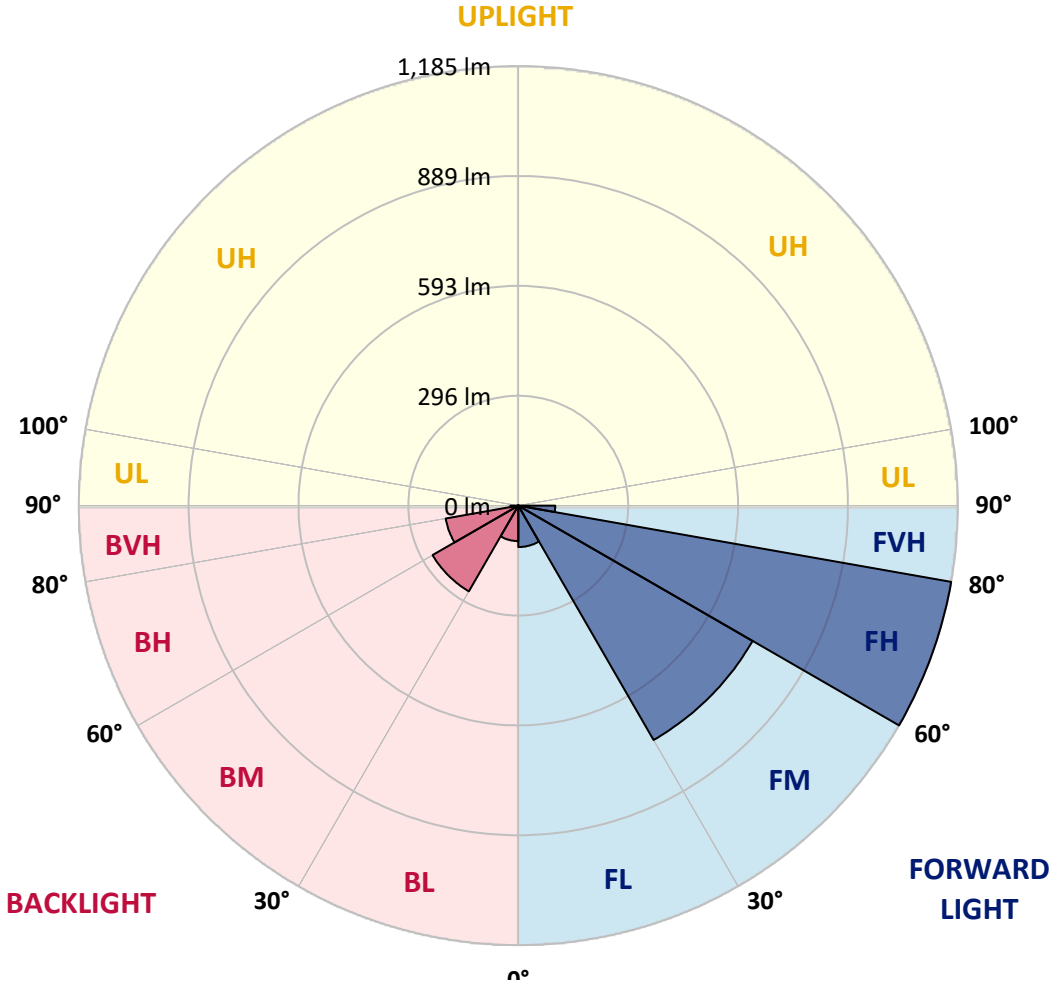


REPORT NUMBER: P560043
CATALOG NUMBER: SDL-PA1-20-740-U-T4W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 111.7 | 4.1 | | | |
| FM | (30°-60°) | 729.8 | 26.9 | | | |
| FH | (60°-80°) | 1185.4 | 43.8 | | | G1/1800 |
| FVH | (80°-90°) | 99.6 | 3.7 | | | G1/100 |
| BL | (0°-30°) | 95.6 | 3.5 | B0/110 | | |
| BM | (30°-60°) | 266.6 | 9.8 | B1/1000 | | |
| BH | (60°-80°) | 198.8 | 7.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 21.4 | 0.8 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G1**
Type IV Medium



REPORT NUMBER: P560043
CATALOG NUMBER: SDL-PA1-20-740-U-T4W

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 315 | 315 | 315 | 315 | 315 | 315 | 315 | 315 | 315 | 315 | 315 |
| 2.5° | 286 | 298 | 304 | 310 | 312 | 314 | 314 | 313 | 313 | 313 | 315 |
| 5° | 291 | 290 | 290 | 290 | 289 | 288 | 287 | 285 | 284 | 282 | 281 |
| 7.5° | 267 | 287 | 288 | 289 | 289 | 288 | 290 | 292 | 290 | 287 | 283 |
| 10° | 317 | 316 | 314 | 312 | 309 | 306 | 283 | 259 | 261 | 263 | 244 |
| 12.5° | 275 | 294 | 302 | 310 | 311 | 311 | 295 | 278 | 256 | 234 | 225 |
| 15° | 336 | 334 | 330 | 326 | 299 | 271 | 255 | 239 | 239 | 239 | 212 |
| 17.5° | 283 | 282 | 300 | 318 | 308 | 298 | 275 | 252 | 218 | 183 | 205 |
| 20° | 347 | 347 | 342 | 337 | 291 | 244 | 247 | 249 | 250 | 250 | 240 |
| 22.5° | 291 | 289 | 291 | 292 | 292 | 292 | 250 | 208 | 231 | 253 | 230 |
| 25° | 347 | 348 | 347 | 346 | 304 | 261 | 268 | 275 | 243 | 210 | 232 |
| 27.5° | 303 | 302 | 297 | 292 | 293 | 294 | 272 | 249 | 262 | 275 | 252 |
| 30° | 371 | 372 | 369 | 365 | 323 | 281 | 279 | 276 | 267 | 258 | 266 |
| 32.5° | 448 | 448 | 417 | 386 | 360 | 333 | 311 | 289 | 298 | 307 | 297 |
| 35° | 489 | 487 | 477 | 466 | 418 | 369 | 339 | 308 | 311 | 313 | 313 |
| 37.5° | 562 | 561 | 547 | 533 | 468 | 402 | 363 | 323 | 329 | 334 | 327 |
| 40° | 653 | 653 | 642 | 630 | 547 | 463 | 408 | 353 | 352 | 350 | 342 |
| 42.5° | 741 | 744 | 737 | 730 | 633 | 536 | 464 | 392 | 383 | 374 | 366 |
| 45° | 799 | 803 | 809 | 815 | 719 | 623 | 539 | 454 | 437 | 419 | 405 |
| 47.5° | 858 | 852 | 860 | 868 | 786 | 704 | 612 | 520 | 492 | 464 | 449 |
| 50° | 913 | 911 | 914 | 917 | 850 | 783 | 688 | 593 | 559 | 524 | 507 |
| 52.5° | 985 | 978 | 974 | 970 | 913 | 856 | 766 | 675 | 635 | 594 | 574 |
| 55° | 1054 | 1051 | 1045 | 1038 | 989 | 940 | 845 | 750 | 708 | 666 | 643 |
| 57.5° | 1125 | 1123 | 1122 | 1121 | 1078 | 1035 | 938 | 840 | 792 | 743 | 724 |
| 60° | 1192 | 1193 | 1201 | 1208 | 1175 | 1142 | 1044 | 946 | 885 | 823 | 804 |
| 62.5° | 1232 | 1235 | 1255 | 1274 | 1256 | 1238 | 1137 | 1035 | 971 | 906 | 893 |
| 65° | 1181 | 1196 | 1254 | 1312 | 1312 | 1312 | 1220 | 1127 | 1071 | 1015 | 1004 |
| 67.5° | 1067 | 1082 | 1165 | 1247 | 1290 | 1333 | 1273 | 1213 | 1175 | 1136 | 1122 |
| 70° | *973* | *982* | *1060* | *1137* | *1245* | *1353* | *1314* | *1274* | *1272* | *1269* | *1231* |
| 72.5° | 894 | 914 | 978 | 1041 | 1190 | 1339 | 1338 | 1337 | 1378 | 1419 | 1346 |
| 75° | 715 | 713 | 773 | 833 | 1001 | 1168 | 1262 | 1355 | 1473 | 1590 | 1478 |
| 77.5° | 319 | 341 | 398 | 455 | 606 | 756 | 937 | 1118 | 1378 | 1637 | 1523 |
| 80° | 91 | 96 | 112 | 127 | 198 | 268 | 458 | 647 | 974 | 1300 | 1223 |
| 82.5° | 48 | 50 | 60 | 69 | 89 | 108 | 180 | 251 | 532 | 812 | 742 |
| 85° | 23 | 21 | 27 | 32 | 43 | 54 | 83 | 112 | 206 | 300 | 259 |
| 87.5° | 5 | 5 | 6 | 6 | 9 | 12 | 18 | 24 | 23 | 21 | 25 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

REPORT NUMBER: P560043
CATALOG NUMBER: SDL-PA1-20-740-U-T4W

**CANDELA DISTRIBUTION (continued):**

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 315 | 315 | 315 | 315 | 315 | 315 | *315* | 315 | 315 | 315 | 315 |
| 2.5° | 316 | 317 | 318 | 317 | 316 | 315 | *315* | 314 | 314 | 313 | 311 |
| 5° | 280 | 294 | 308 | 309 | 310 | 310 | *309* | 308 | 306 | 305 | 303 |
| 7.5° | 279 | 274 | 269 | 270 | 271 | 272 | *272* | 269 | 268 | 260 | 252 |
| 10° | 224 | 219 | 214 | 217 | 220 | 231 | *237* | 235 | 233 | 219 | 204 |
| 12.5° | 216 | 214 | 212 | 197 | 182 | 195 | *204* | 203 | 200 | 187 | 174 |
| 15° | 185 | 186 | 186 | 203 | 220 | 231 | *239* | 237 | 235 | 219 | 203 |
| 17.5° | 226 | 215 | 203 | 200 | 197 | 202 | *195* | 184 | 191 | 189 | 187 |
| 20° | 229 | 202 | 174 | 202 | 230 | 237 | *252* | 251 | 248 | 234 | 220 |
| 22.5° | 207 | 223 | 238 | 223 | 208 | 198 | *193* | 191 | 190 | 194 | 197 |
| 25° | 254 | 224 | 193 | 230 | 266 | 274 | *278* | 275 | 274 | 256 | 238 |
| 27.5° | 228 | 244 | 260 | 272 | 284 | 294 | *324* | 295 | 294 | 277 | 259 |
| 30° | 273 | 290 | 307 | 338 | 369 | 386 | *392* | 390 | 385 | 358 | 331 |
| 32.5° | 287 | 321 | 354 | 368 | 381 | 399 | *408* | 407 | 402 | 370 | 337 |
| 35° | 313 | 338 | 363 | 382 | 400 | 417 | *425* | 428 | 422 | 382 | 341 |
| 37.5° | 320 | 352 | 384 | 404 | 424 | 437 | *444* | 453 | 446 | 398 | 349 |
| 40° | 334 | 372 | 409 | 429 | 448 | 460 | *472* | 483 | 474 | 416 | 357 |
| 42.5° | 357 | 396 | 434 | 457 | 479 | 496 | *510* | 525 | 508 | 433 | 357 |
| 45° | 391 | 427 | 463 | 494 | 524 | 545 | *565* | 586 | 552 | 455 | 357 |
| 47.5° | 434 | 469 | 503 | 552 | 601 | 620 | *644* | 664 | 609 | 483 | 357 |
| 50° | 489 | 528 | 567 | 632 | 696 | 714 | *744* | 759 | 685 | 526 | 366 |
| 52.5° | 553 | 596 | 638 | 714 | 790 | 820 | *860* | 870 | 762 | 569 | 375 |
| 55° | 620 | 678 | 735 | 819 | 902 | 931 | *988* | 996 | 861 | 622 | 382 |
| 57.5° | 705 | 773 | 840 | 922 | 1003 | 1044 | *1133* | 1136 | 976 | 687 | 397 |
| 60° | 785 | 870 | 954 | 1032 | 1110 | 1174 | *1277* | 1278 | 1084 | 736 | 387 |
| 62.5° | 880 | 981 | 1081 | 1148 | 1215 | 1294 | *1418* | 1400 | 1160 | 742 | 324 |
| 65° | 992 | 1096 | 1200 | 1257 | 1313 | 1403 | *1537* | 1468 | 1181 | 708 | 234 |
| 67.5° | 1107 | 1204 | 1301 | 1346 | 1391 | 1505 | *1624* | 1476 | 1150 | 657 | 163 |
| 70° | *1193* | *1284* | *1375* | *1414* | *1453* | *1576* | *1650* | *1424* | *1063* | *595* | *127* |
| 72.5° | 1272 | 1358 | 1443 | 1463 | 1482 | 1545 | *1518* | 1255 | 896 | 501 | 105 |
| 75° | 1366 | 1421 | 1475 | 1439 | 1403 | 1318 | *1165* | 915 | 656 | 373 | 90 |
| 77.5° | 1409 | 1396 | 1382 | 1259 | 1136 | 908 | *724* | 529 | 333 | 205 | 77 |
| 80° | 1146 | 1094 | 1041 | 835 | 629 | 430 | *282* | 179 | 122 | 92 | 62 |
| 82.5° | 671 | 550 | 429 | 315 | 201 | 141 | *92* | 73 | 57 | 54 | 50 |
| 85° | 217 | 192 | 167 | 132 | 97 | 60 | *35* | 32 | 30 | 33 | 35 |
| 87.5° | 29 | 29 | 28 | 21 | 13 | 7 | *4* | 3 | 3 | 4 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | *0* | 0 | 0 | 0 | 0 |

REPORT NUMBER: P560043
CATALOG NUMBER: SDL-PA1-20-740-U-T4W

**CANDELA DISTRIBUTION (continued):**

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 315 | 315 | 315 | 315 | 315 | 315 | 315 | 315 | 315 | 315 | 315 |
| 2.5° | 311 | 310 | 309 | 308 | 307 | 305 | 297 | 289 | 286 | 282 | 279 |
| 5° | 293 | 283 | 276 | 269 | 266 | 262 | 263 | 264 | 265 | 265 | 265 |
| 7.5° | 254 | 256 | 257 | 257 | 260 | 262 | 264 | 265 | 261 | 257 | 252 |
| 10° | 202 | 199 | 203 | 206 | 211 | 215 | 228 | 241 | 253 | 265 | 270 |
| 12.5° | 184 | 194 | 186 | 178 | 194 | 209 | 227 | 245 | 256 | 266 | 257 |
| 15° | 187 | 170 | 172 | 173 | 193 | 212 | 201 | 190 | 221 | 251 | 260 |
| 17.5° | 184 | 181 | 192 | 202 | 183 | 164 | 191 | 217 | 231 | 245 | 241 |
| 20° | 199 | 177 | 177 | 177 | 194 | 211 | 198 | 185 | 200 | 215 | 240 |
| 22.5° | 206 | 214 | 198 | 181 | 192 | 203 | 203 | 202 | 219 | 235 | 231 |
| 25° | 208 | 178 | 192 | 205 | 198 | 190 | 199 | 207 | 212 | 217 | 239 |
| 27.5° | 238 | 217 | 201 | 184 | 197 | 210 | 207 | 204 | 208 | 212 | 217 |
| 30° | 282 | 233 | 215 | 196 | 189 | 181 | 190 | 198 | 213 | 228 | 248 |
| 32.5° | 295 | 252 | 223 | 193 | 192 | 190 | 193 | 195 | 212 | 228 | 256 |
| 35° | 293 | 244 | 216 | 187 | 181 | 175 | 180 | 184 | 209 | 234 | 261 |
| 37.5° | 291 | 232 | 203 | 174 | 170 | 165 | 170 | 175 | 194 | 213 | 238 |
| 40° | 288 | 218 | 190 | 161 | 156 | 151 | 156 | 160 | 175 | 190 | 210 |
| 42.5° | 281 | 204 | 176 | 147 | 143 | 138 | 142 | 146 | 159 | 172 | 184 |
| 45° | 273 | 188 | 161 | 134 | 130 | 126 | 129 | 131 | 143 | 154 | 160 |
| 47.5° | 264 | 171 | 146 | 121 | 117 | 113 | 116 | 118 | 127 | 136 | 138 |
| 50° | 262 | 157 | 134 | 110 | 107 | 103 | 105 | 107 | 114 | 120 | 120 |
| 52.5° | 258 | 140 | 121 | 101 | 99 | 96 | 97 | 98 | 103 | 108 | 107 |
| 55° | 255 | 128 | 111 | 94 | 92 | 89 | 90 | 91 | 96 | 100 | 99 |
| 57.5° | 258 | 118 | 103 | 87 | 85 | 83 | 85 | 87 | 92 | 97 | 97 |
| 60° | 248 | 108 | 94 | 80 | 79 | 77 | 82 | 86 | 94 | 101 | 103 |
| 62.5° | 212 | 99 | 87 | 75 | 76 | 76 | 85 | 93 | 104 | 114 | 116 |
| 65° | 163 | 92 | 82 | 71 | 76 | 81 | 93 | 105 | 115 | 125 | 122 |
| 67.5° | 125 | 87 | 79 | 70 | 81 | 91 | 102 | 113 | 118 | 122 | 117 |
| 70° | *105* | *82* | *76* | *69* | *80* | *91* | *102* | *113* | *115* | *117* | *112* |
| 72.5° | 92 | 78 | 72 | 66 | 75 | 84 | 97 | 109 | 111 | 112 | 107 |
| 75° | 82 | 73 | 66 | 59 | 68 | 76 | 89 | 102 | 104 | 105 | 101 |
| 77.5° | 72 | 67 | 59 | 51 | 60 | 69 | 81 | 93 | 96 | 99 | 94 |
| 80° | 60 | 57 | 51 | 45 | 55 | 64 | 75 | 86 | 89 | 92 | 87 |
| 82.5° | 48 | 46 | 42 | 38 | 48 | 58 | 69 | 79 | 82 | 84 | 78 |
| 85° | 35 | 35 | 33 | 31 | 41 | 50 | 57 | 64 | 63 | 62 | 58 |
| 87.5° | 5 | 5 | 7 | 9 | 12 | 14 | 18 | 21 | 22 | 22 | 17 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

REPORT NUMBER: P560043
CATALOG NUMBER: SDL-PA1-20-740-U-T4W

**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° |
|---|---|---|---|---|
| 0° | 315 | 315 | 315 | 315 |
| 2.5° | 276 | 276 | 275 | 277 |
| 5° | 265 | 266 | 266 | 267 |
| 7.5° | 247 | 242 | 236 | 237 |
| 10° | 275 | 276 | 277 | 277 |
| 12.5° | 247 | 243 | 238 | 239 |
| 15° | 268 | 271 | 274 | 275 |
| 17.5° | 236 | 235 | 234 | 233 |
| 20° | 264 | 269 | 274 | 274 |
| 22.5° | 227 | 227 | 227 | 228 |
| 25° | 261 | 267 | 272 | 272 |
| 27.5° | 221 | 235 | 249 | 260 |
| 30° | 267 | 270 | 273 | 274 |
| 32.5° | 283 | 298 | 312 | 315 |
| 35° | 287 | 294 | 300 | 303 |
| 37.5° | 263 | 269 | 275 | 279 |
| 40° | 229 | 234 | 239 | 242 |
| 42.5° | 195 | 196 | 197 | 202 |
| 45° | 166 | 161 | 156 | 155 |
| 47.5° | 139 | 132 | 125 | 124 |
| 50° | 119 | 113 | 107 | 107 |
| 52.5° | 105 | 101 | 97 | 97 |
| 55° | 98 | 96 | 93 | 93 |
| 57.5° | 97 | 96 | 95 | 95 |
| 60° | 104 | 105 | 105 | 105 |
| 62.5° | 117 | 118 | 118 | 118 |
| 65° | 118 | 116 | 114 | 114 |
| 67.5° | 112 | 109 | 106 | 104 |
| 70° | *106* | *104* | *101* | *98* |
| 72.5° | 101 | 99 | 96 | 93 |
| 75° | 96 | 93 | 89 | 87 |
| 77.5° | 89 | 87 | 84 | 82 |
| 80° | 81 | 79 | 76 | 72 |
| 82.5° | 72 | 73 | 73 | 63 |
| 85° | 53 | 50 | 46 | 38 |
| 87.5° | 11 | 10 | 8 | 7 |
| 90° | 0 | 0 | 0 | 0 |

Report Generated By 670245982

HS SS

0

(END OF REPORT)