

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: P560041

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

Issue Date: 7/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P560041  
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-HSS-A  
Description: Springdale  
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS, HOUSE SIDE SHEILD AND CLEAR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1869.4 lumens  
Efficiency: N/A  
Efficacy: 89.0 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: B0 - U2 - 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

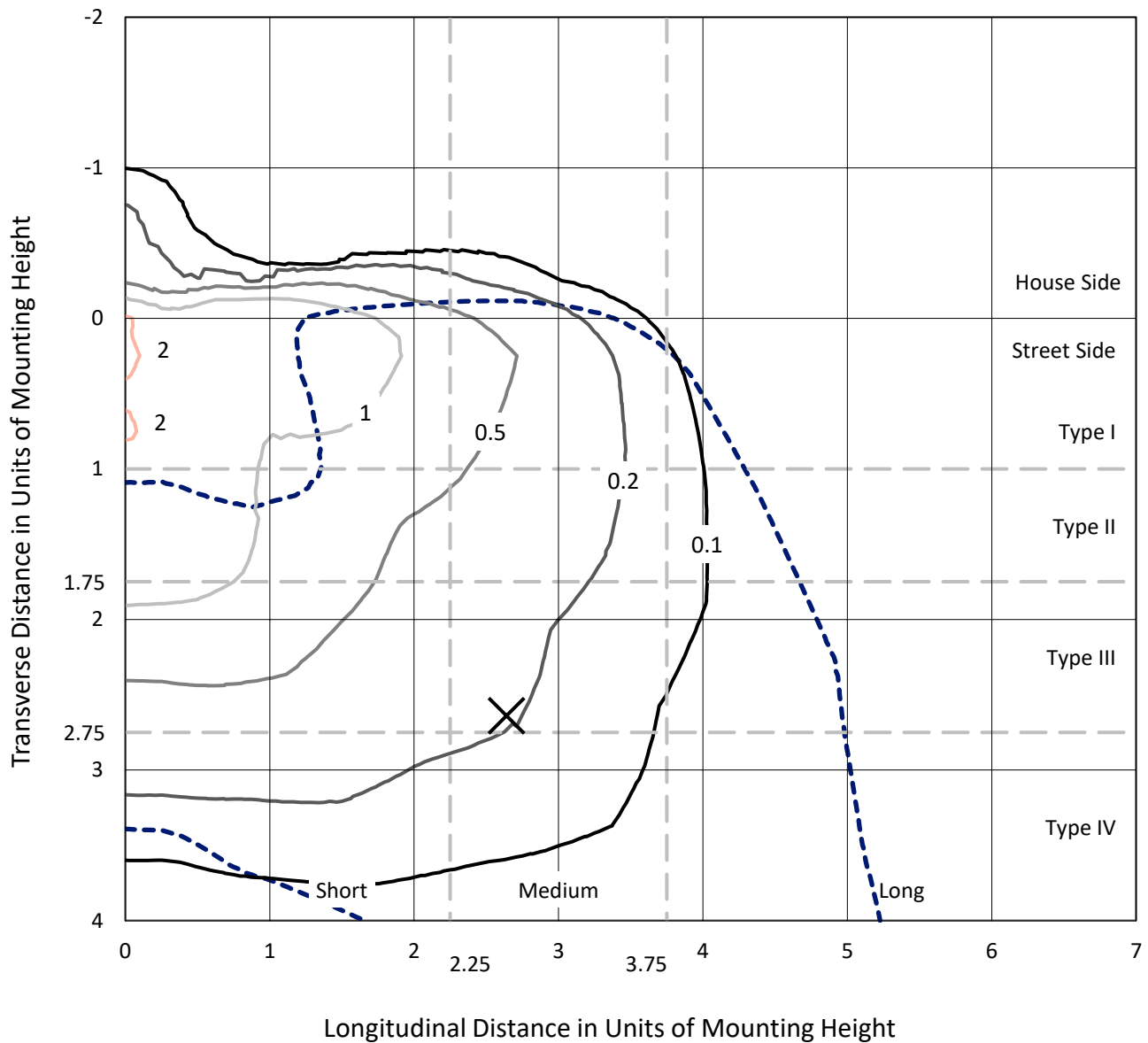


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

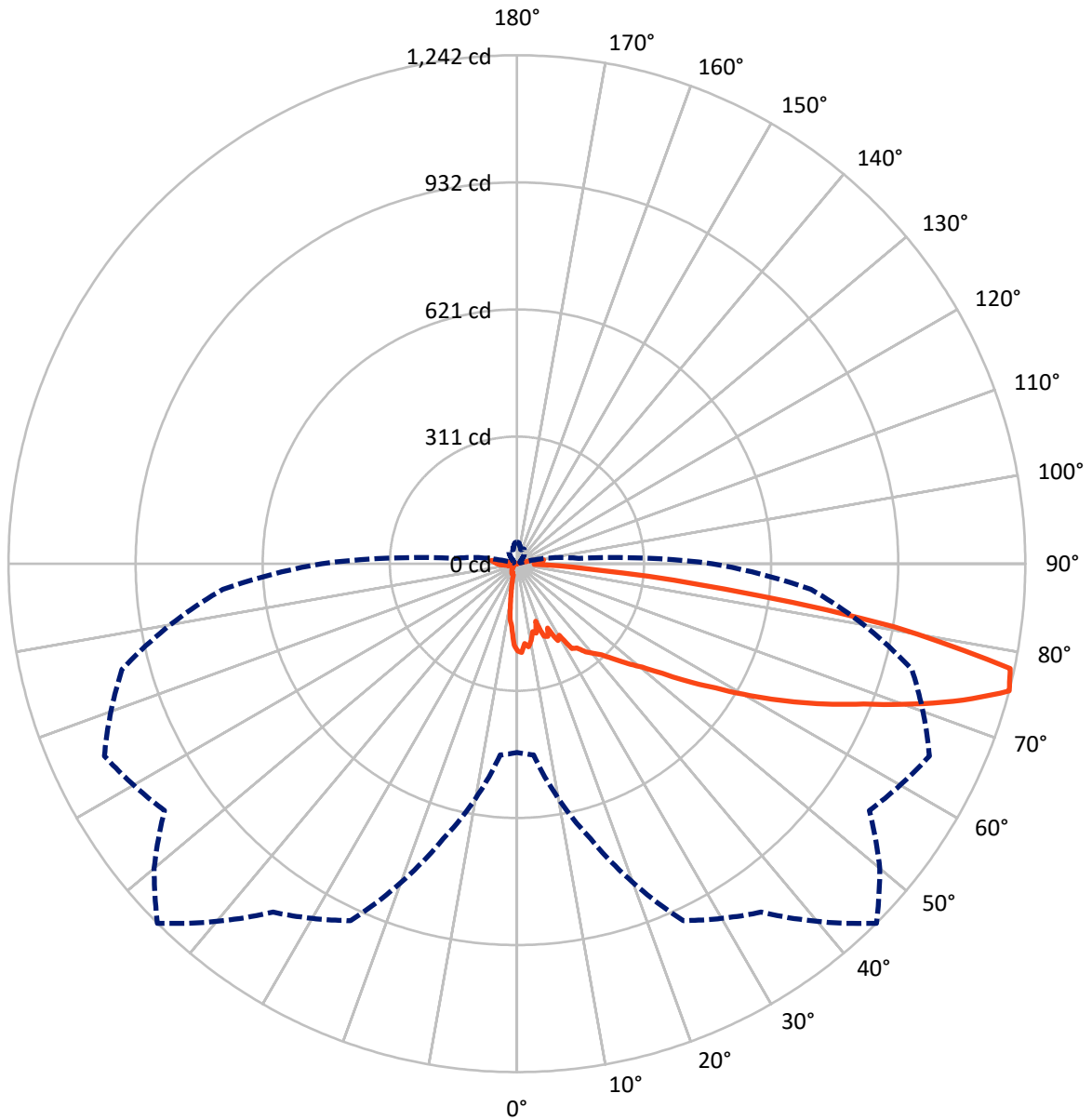


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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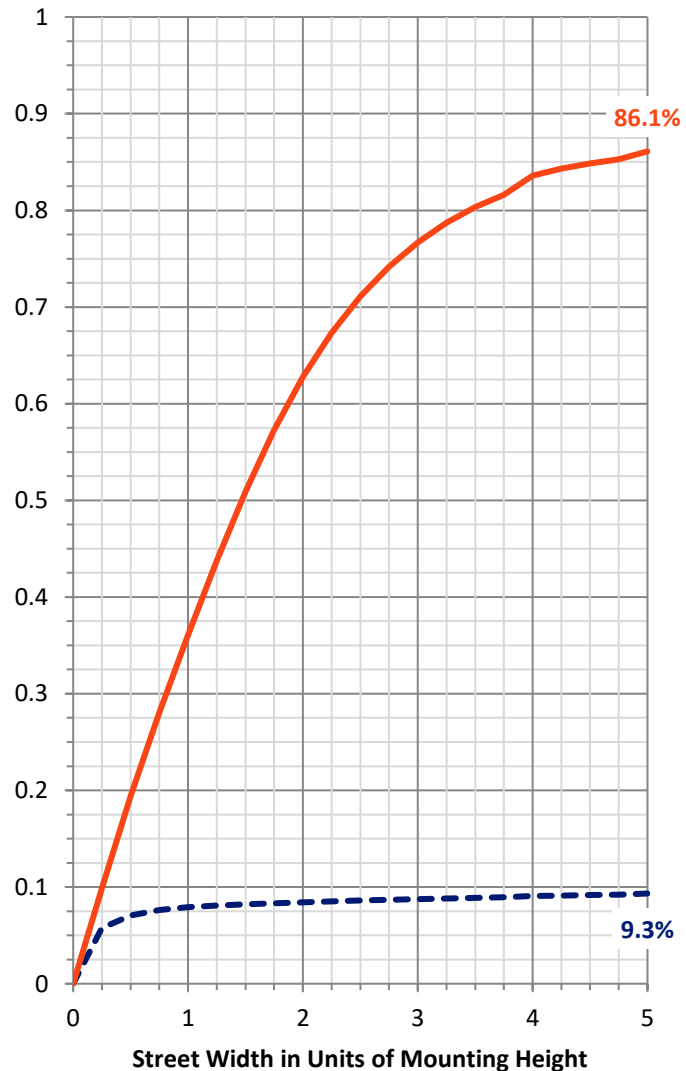
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 191.8    | 33.6   | 225.4  |
|                    | % Fixture | 10.3     | 1.8    | 12.1   |
| <b>Street Side</b> | Lumens    | 1618.1   | 25.9   | 1644.0 |
|                    | % Fixture | 86.6     | 1.4    | 87.9   |
| <b>Total</b>       | Lumens    | 1809.9   | 59.5   | 1869.4 |
|                    | % Fixture | 96.8     | 3.2    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 16.5   | 0.9       |
| 10°-20°   | 35.8   | 1.9       |
| 20°-30°   | 60.0   | 3.2       |
| 30°-40°   | 111.3  | 6.0       |
| 40°-50°   | 187.5  | 10.0      |
| 50°-60°   | 336.6  | 18.0      |
| 60°-70°   | 505.4  | 27.0      |
| 70°-80°   | 462.3  | 24.7      |
| 80°-90°   | 94.5   | 5.1       |
| 90°-100°  | 45.2   | 2.4       |
| 100°-110° | 9.6    | 0.5       |
| 110°-120° | 1.8    | 0.1       |
| 120°-130° | 1.4    | 0.1       |
| 130°-140° | 0.7    | 0.0       |
| 140°-150° | 0.3    | 0.0       |
| 150°-160° | 0.3    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 1809.9 | 96.8      |
| 0°-180°   | 1869.4 | 100.0     |



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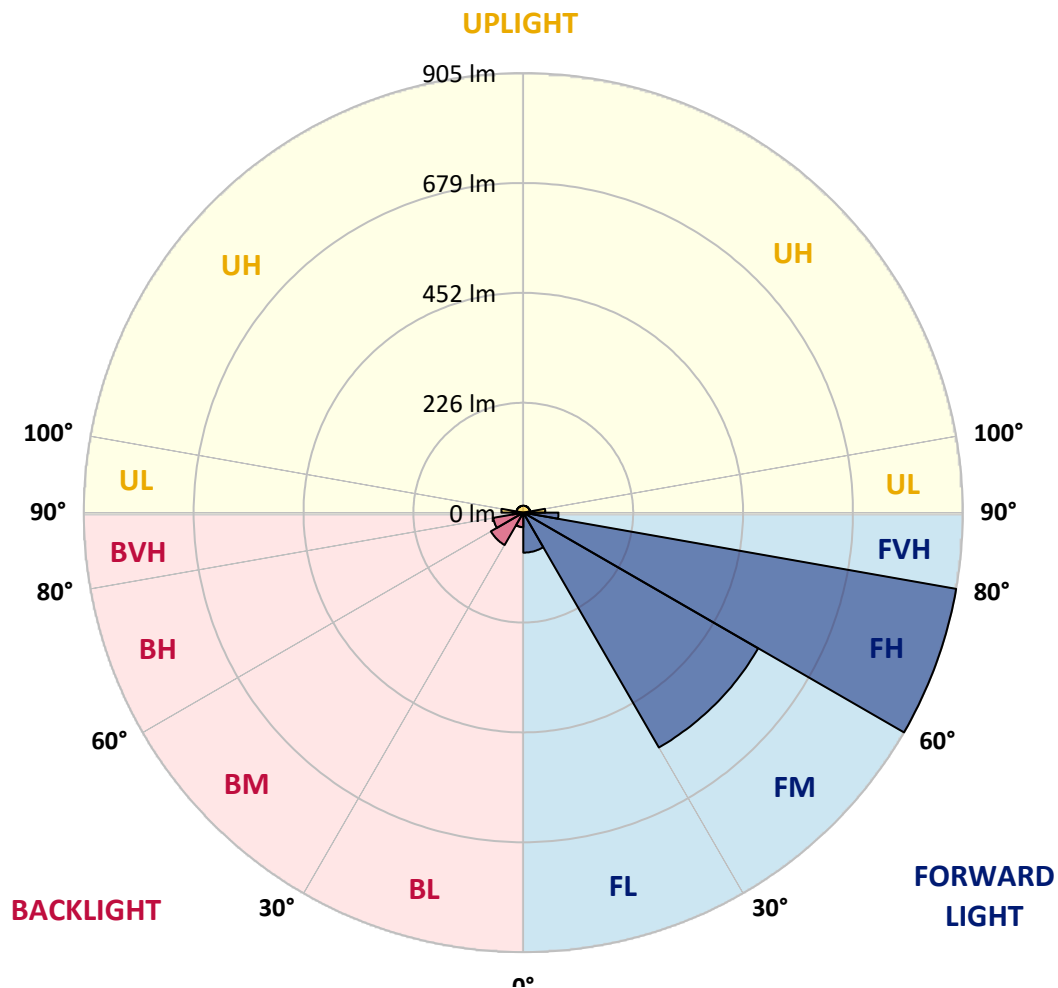
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|------|-------------|--------|-----------|-------------------------|-------|---------|
|      |             |        |           | B                       | U     | G       |
| FL   | (0°-30°)    | 82.4   | 4.4       |                         |       |         |
| FM   | (30°-60°)   | 558.4  | 29.9      |                         |       |         |
| FH   | (60°-80°)   | 904.8  | 48.4      |                         |       | G1/1800 |
| FVH  | (80°-90°)   | 72.5   | 3.9       |                         |       | G1/100  |
| BL   | (0°-30°)    | 29.9   | 1.6       | B0/110                  |       |         |
| BM   | (30°-60°)   | 77.0   | 4.1       | B0/220                  |       |         |
| BH   | (60°-80°)   | 62.9   | 3.4       | B0/110                  |       | G0/110  |
| BVH  | (80°-90°)   | 22.0   | 1.2       |                         |       | G1/100  |
| UL   | (90°-100°)  | 45.2   | 2.4       |                         | U2/50 |         |
| UH   | (100°-180°) | 14.3   | 0.8       |                         | U2/50 |         |

**BUG Rating: B0-U2-G1**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 50°  | 55°  | 65°  | 75°  | 85°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 0°     | 213  | 213  | 213  | 213  | 213  | 213  | 213  | 213  | 213  | 213  | 213  |
| 2.5°   | 207  | 217  | 214  | 219  | 218  | 217  | 217  | 218  | 217  | 215  | 213  |
| 5°     | 211  | 208  | 206  | 205  | 201  | 196  | 194  | 192  | 213  | 213  | 209  |
| 7.5°   | 217  | 217  | 213  | 210  | 210  | 205  | 200  | 196  | 186  | 183  | 183  |
| 10°    | 231  | 229  | 226  | 220  | 190  | 191  | 180  | 158  | 148  | 152  | 158  |
| 12.5°  | 234  | 233  | 229  | 228  | 200  | 170  | 141  | 158  | 151  | 126  | 140  |
| 15°    | 251  | 249  | 241  | 227  | 171  | 176  | 164  | 141  | 135  | 154  | 165  |
| 17.5°  | 214  | 214  | 240  | 220  | 186  | 148  | 147  | 164  | 148  | 138  | 137  |
| 20°    | 263  | 263  | 252  | 180  | 191  | 189  | 152  | 172  | 145  | 164  | 175  |
| 22.5°  | 219  | 218  | 226  | 223  | 183  | 193  | 156  | 157  | 173  | 148  | 127  |
| 25°    | 267  | 267  | 261  | 194  | 208  | 174  | 178  | 188  | 154  | 187  | 189  |
| 27.5°  | 230  | 229  | 218  | 222  | 194  | 213  | 162  | 177  | 189  | 202  | 222  |
| 30°    | 281  | 283  | 278  | 211  | 216  | 203  | 193  | 205  | 229  | 269  | 282  |
| 32.5°  | 347  | 349  | 296  | 254  | 217  | 247  | 207  | 226  | 263  | 282  | 296  |
| 35°    | 386  | 371  | 348  | 284  | 234  | 253  | 238  | 241  | 274  | 304  | 314  |
| 37.5°  | 419  | 399  | 372  | 293  | 247  | 273  | 248  | 252  | 297  | 324  | 337  |
| 40°    | 430  | 418  | 403  | 313  | 263  | 288  | 260  | 269  | 319  | 350  | 370  |
| 42.5°  | 457  | 458  | 449  | 341  | 280  | 304  | 280  | 286  | 348  | 386  | 415  |
| 45°    | 529  | 531  | 521  | 389  | 301  | 332  | 312  | 315  | 381  | 441  | 478  |
| 47.5°  | 621  | 614  | 604  | 453  | 333  | 364  | 349  | 346  | 420  | 513  | 546  |
| 50°    | 714  | 701  | 680  | 541  | 388  | 397  | 387  | 385  | 467  | 587  | 623  |
| 52.5°  | 811  | 801  | 757  | 624  | 470  | 445  | 434  | 445  | 528  | 669  | 702  |
| 55°    | 862  | 852  | 824  | 713  | 549  | 507  | 488  | 508  | 622  | 746  | 789  |
| 57.5°  | 904  | 901  | 888  | 806  | 645  | 573  | 554  | 573  | 697  | 818  | 869  |
| 60°    | 964  | 952  | 964  | 896  | 738  | 654  | 628  | 648  | 789  | 881  | 957  |
| 62.5°  | 1007 | 1004 | 1028 | 997  | 816  | 739  | 701  | 720  | 870  | 948  | 1044 |
| 65°    | 961  | 976  | 1072 | 1063 | 904  | 826  | 786  | 780  | 936  | 1020 | 1137 |
| 67.5°  | 879  | 889  | 1029 | 1097 | 981  | 914  | 866  | 838  | 997  | 1085 | 1211 |
| 70°    | 801  | 813  | 941  | 1099 | 1018 | 1027 | 960  | 908  | 1058 | 1158 | 1227 |
| 72.5°  | 739  | 750  | 865  | 1075 | 1031 | 1140 | 1063 | 982  | 1117 | 1160 | 1072 |
| 75°    | 461  | 469  | 696  | 962  | 1039 | 1242 | 1157 | 1051 | 1112 | 999  | 721  |
| 77.5°  | 142  | 145  | 298  | 635  | 903  | 1232 | 1141 | 988  | 932  | 634  | 329  |
| 80°    | 49   | 50   | 77   | 226  | 540  | 935  | 870  | 727  | 557  | 234  | 124  |
| 82.5°  | 23   | 25   | 36   | 76   | 220  | 511  | 514  | 432  | 234  | 104  | 84   |
| 85°    | 8    | 8    | 15   | 33   | 85   | 197  | 187  | 174  | 123  | 94   | 78   |
| 87.5°  | 3    | 3    | 5    | 9    | 21   | 42   | 53   | 65   | 65   | 66   | 79   |
| 90°    | 3    | 3    | 2    | 2    | 15   | 44   | 53   | 59   | 54   | 60   | 86   |
| 92.5°  | 3    | 3    | 2    | 2    | 16   | 51   | 59   | 64   | 57   | 64   | 95   |
| 95°    | 3    | 3    | 2    | 2    | 18   | 62   | 69   | 68   | 57   | 67   | 102  |
| 97.5°  | 4    | 4    | 2    | 1    | 16   | 66   | 74   | 72   | 49   | 51   | 80   |
| 100°   | 4    | 4    | 2    | 1    | 10   | 49   | 59   | 58   | 32   | 8    | 23   |
| 102.5° | 4    | 4    | 2    | 1    | 2    | 23   | 28   | 29   | 19   | 3    | 4    |
| 105°   | 5    | 5    | 2    | 1    | 1    | 4    | 9    | 12   | 7    | 2    | 4    |
| 107.5° | 5    | 5    | 2    | 1    | 1    | 2    | 2    | 3    | 3    | 2    | 5    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|--------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 4  | 4  | 1   | 2   | 1   | 1   | 1   | 1   | 1   | 2   | 5   |
| 115°   | 2  | 2  | 1   | 1   | 0   | 1   | 1   | 1   | 1   | 2   | 4   |
| 117.5° | 1  | 1  | 0   | 1   | 0   | 1   | 1   | 1   | 2   | 2   | 5   |
| 120°   | 1  | 1  | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 3   | 6   |
| 122.5° | 1  | 1  | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 3   | 6   |
| 125°   | 1  | 1  | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 3   | 6   |
| 127.5° | 1  | 1  | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 3   | 5   |
| 130°   | 1  | 1  | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 2   | 4   |
| 132.5° | 1  | 1  | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 2   | 3   |
| 135°   | 1  | 1  | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 1   | 2   |
| 137.5° | 0  | 0  | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 1   | 1   |
| 140°   | 0  | 0  | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 1   | 1   |
| 142.5° | 0  | 0  | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 1   | 1   |
| 145°   | 0  | 0  | 0   | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 147.5° | 0  | 0  | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 150°   | 3  | 3  | 2   | 1   | 0   | 0   | 1   | 1   | 1   | 1   | 1   |
| 152.5° | 2  | 2  | 3   | 1   | 0   | 0   | 1   | 1   | 2   | 1   | 1   |
| 155°   | 2  | 2  | 1   | 0   | 0   | 0   | 0   | 1   | 1   | 2   | 2   |
| 157.5° | 1  | 1  | 1   | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 1   |
| 160°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 1   |
| 162.5° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 165°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 167.5° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 170°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 172.5° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 175°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 177.5° | 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):**

|        | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|-----|------|------|------|------|------|------|------|------|------|
| 0°     | 213 | 213 | 213  | 213  | 213  | 213  | 213  | 213  | 213  | 213  | 213  |
| 2.5°   | 211 | 210 | 207  | 205  | 202  | 199  | 184  | 175  | 174  | 173  | 174  |
| 5°     | 207 | 204 | 199  | 176  | 165  | 155  | 152  | 150  | 145  | 145  | 146  |
| 7.5°   | 179 | 177 | 161  | 154  | 145  | 136  | 128  | 122  | 107  | 102  | 100  |
| 10°    | 157 | 153 | 125  | 111  | 102  | 92   | 92   | 84   | 80   | 77   | 76   |
| 12.5°  | 136 | 133 | 110  | 101  | 76   | 66   | 61   | 56   | 53   | 51   | 50   |
| 15°    | 159 | 154 | 118  | 81   | 56   | 47   | 37   | 36   | 45   | 47   | 48   |
| 17.5°  | 127 | 130 | 105  | 71   | 46   | 29   | 32   | 38   | 43   | 43   | 42   |
| 20°    | 169 | 162 | 114  | 57   | 33   | 29   | 31   | 28   | 40   | 43   | 43   |
| 22.5°  | 123 | 117 | 94   | 53   | 26   | 28   | 26   | 33   | 37   | 33   | 34   |
| 25°    | 183 | 174 | 109  | 37   | 27   | 24   | 30   | 26   | 36   | 39   | 40   |
| 27.5°  | 227 | 197 | 107  | 35   | 24   | 27   | 25   | 30   | 29   | 31   | 31   |
| 30°    | 271 | 254 | 121  | 32   | 24   | 23   | 26   | 26   | 33   | 36   | 36   |
| 32.5°  | 290 | 270 | 106  | 31   | 24   | 23   | 23   | 28   | 31   | 37   | 37   |
| 35°    | 310 | 283 | 89   | 29   | 23   | 22   | 22   | 28   | 33   | 37   | 38   |
| 37.5°  | 337 | 297 | 72   | 28   | 22   | 21   | 19   | 25   | 35   | 39   | 40   |
| 40°    | 371 | 317 | 56   | 26   | 20   | 19   | 18   | 25   | 30   | 35   | 35   |
| 42.5°  | 424 | 339 | 44   | 25   | 19   | 17   | 17   | 21   | 29   | 33   | 33   |
| 45°    | 478 | 365 | 37   | 24   | 18   | 16   | 16   | 21   | 22   | 28   | 28   |
| 47.5°  | 538 | 391 | 34   | 23   | 18   | 14   | 14   | 19   | 19   | 26   | 27   |
| 50°    | 600 | 413 | 32   | 22   | 16   | 13   | 16   | 13   | 16   | 25   | 27   |
| 52.5°  | 654 | 431 | 30   | 20   | 15   | 12   | 15   | 13   | 16   | 23   | 23   |
| 55°    | 709 | 441 | 29   | 19   | 14   | 10   | 15   | 14   | 15   | 21   | 21   |
| 57.5°  | 758 | 444 | 28   | 19   | 12   | 9    | 14   | 17   | 13   | 17   | 19   |
| 60°    | 802 | 441 | 25   | 17   | 9    | 9    | 15   | 20   | 18   | 20   | 20   |
| 62.5°  | 843 | 430 | 20   | 14   | 7    | 9    | 19   | 22   | 17   | 21   | 23   |
| 65°    | 878 | 415 | 15   | 11   | 5    | 10   | 20   | 25   | 20   | 24   | 26   |
| 67.5°  | 894 | 395 | 12   | 9    | 5    | 11   | 21   | 28   | 23   | 27   | 29   |
| 70°    | 867 | 354 | 10   | 9    | 4    | 13   | 22   | 30   | 26   | 34   | 35   |
| 72.5°  | 720 | 278 | 9    | 9    | 7    | 16   | 28   | 34   | 32   | 46   | 45   |
| 75°    | 477 | 152 | 9    | 8    | 9    | 19   | 34   | 40   | 35   | 52   | 52   |
| 77.5°  | 220 | 67  | 8    | 9    | 10   | 21   | 39   | 48   | 40   | 59   | 58   |
| 80°    | 96  | 41  | 8    | 8    | 11   | 23   | 44   | 54   | 44   | 65   | 65   |
| 82.5°  | 72  | 37  | 7    | 8    | 15   | 26   | 51   | 60   | 49   | 70   | 69   |
| 85°    | 67  | 35  | 8    | 9    | 17   | 33   | 60   | 65   | 51   | 72   | 72   |
| 87.5°  | 68  | 34  | 8    | 9    | 23   | 42   | 68   | 70   | 56   | 76   | 76   |
| 90°    | 70  | 35  | 9    | 10   | 26   | 46   | 76   | 75   | 63   | 80   | 80   |
| 92.5°  | 75  | 35  | 10   | 11   | 28   | 51   | 83   | 77   | 68   | 83   | 81   |
| 95°    | 78  | 35  | 11   | 12   | 33   | 56   | 88   | 75   | 72   | 77   | 75   |
| 97.5°  | 58  | 26  | 13   | 14   | 34   | 63   | 81   | 64   | 47   | 46   | 47   |
| 100°   | 19  | 9   | 14   | 15   | 22   | 44   | 60   | 46   | 25   | 19   | 19   |
| 102.5° | 5   | 5   | 13   | 14   | 12   | 19   | 35   | 30   | 17   | 1    | 2    |
| 105°   | 5   | 4   | 8    | 11   | 7    | 5    | 14   | 17   | 13   | 1    | 1    |
| 107.5° | 5   | 4   | 4    | 6    | 2    | 2    | 4    | 4    | 4    | 1    | 1    |



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**CANDELA DISTRIBUTION (continued):**

|        | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|-----|------|------|------|------|------|------|------|------|------|
| 112.5° | 6   | 4   | 2    | 2    | 2    | 1    | 1    | 1    | 1    | 3    | 4    |
| 115°   | 5   | 4   | 1    | 2    | 1    | 1    | 1    | 1    | 2    | 4    | 5    |
| 117.5° | 5   | 4   | 1    | 1    | 1    | 1    | 1    | 1    | 2    | 5    | 6    |
| 120°   | 6   | 5   | 1    | 1    | 1    | 1    | 1    | 1    | 2    | 6    | 6    |
| 122.5° | 6   | 5   | 1    | 1    | 1    | 1    | 0    | 1    | 3    | 6    | 6    |
| 125°   | 6   | 5   | 1    | 1    | 1    | 0    | 0    | 1    | 3    | 6    | 7    |
| 127.5° | 5   | 4   | 1    | 1    | 1    | 0    | 0    | 1    | 2    | 5    | 6    |
| 130°   | 4   | 3   | 1    | 1    | 1    | 0    | 0    | 0    | 2    | 5    | 5    |
| 132.5° | 3   | 2   | 1    | 1    | 1    | 0    | 0    | 0    | 2    | 4    | 4    |
| 135°   | 2   | 2   | 1    | 1    | 1    | 0    | 0    | 0    | 1    | 3    | 3    |
| 137.5° | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 1    | 1    | 1    |
| 140°   | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 142.5° | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 145°   | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 147.5° | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 150°   | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 152.5° | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 155°   | 2   | 2   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 157.5° | 1   | 1   | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 160°   | 1   | 1   | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 162.5° | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 165°   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 167.5° | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 170°   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 172.5° | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 175°   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 177.5° | 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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|      |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|
| 110° | 5 | 5 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 5 |
|------|---|---|---|---|---|---|---|---|---|---|





|      |   |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 5 | 4 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 |
|------|---|---|---|---|---|---|---|---|---|---|---|



(END OF REPORT)