

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: P157900

Luminaire Tested: **VTS-E05-LED-E1-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157900  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33711)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-E05-LED-E1-RW  
Description: VENTUS LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (105) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

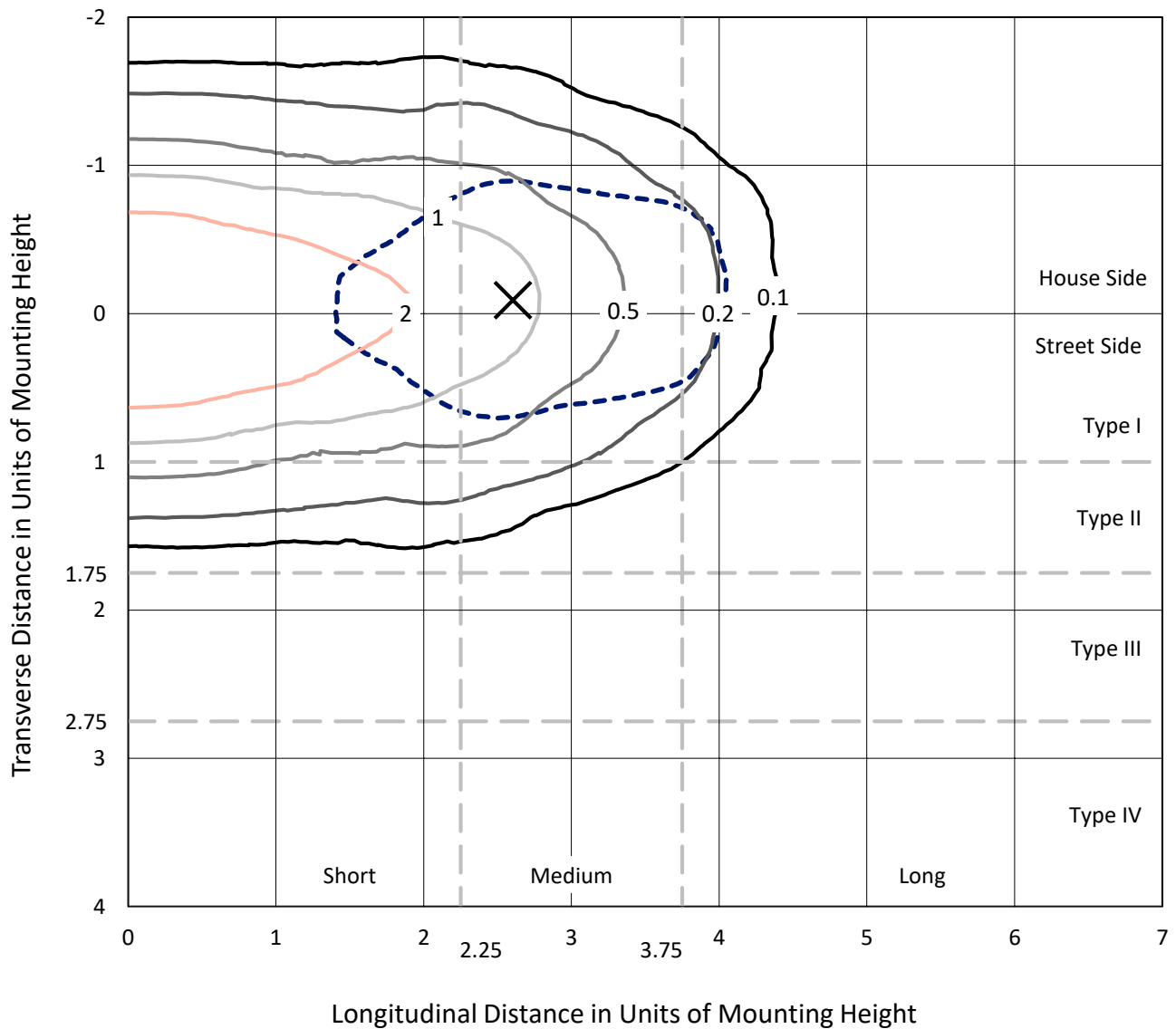
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15577.1 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 127.3  
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

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### Iso-Footcandle Lines of Horizontal Illumination

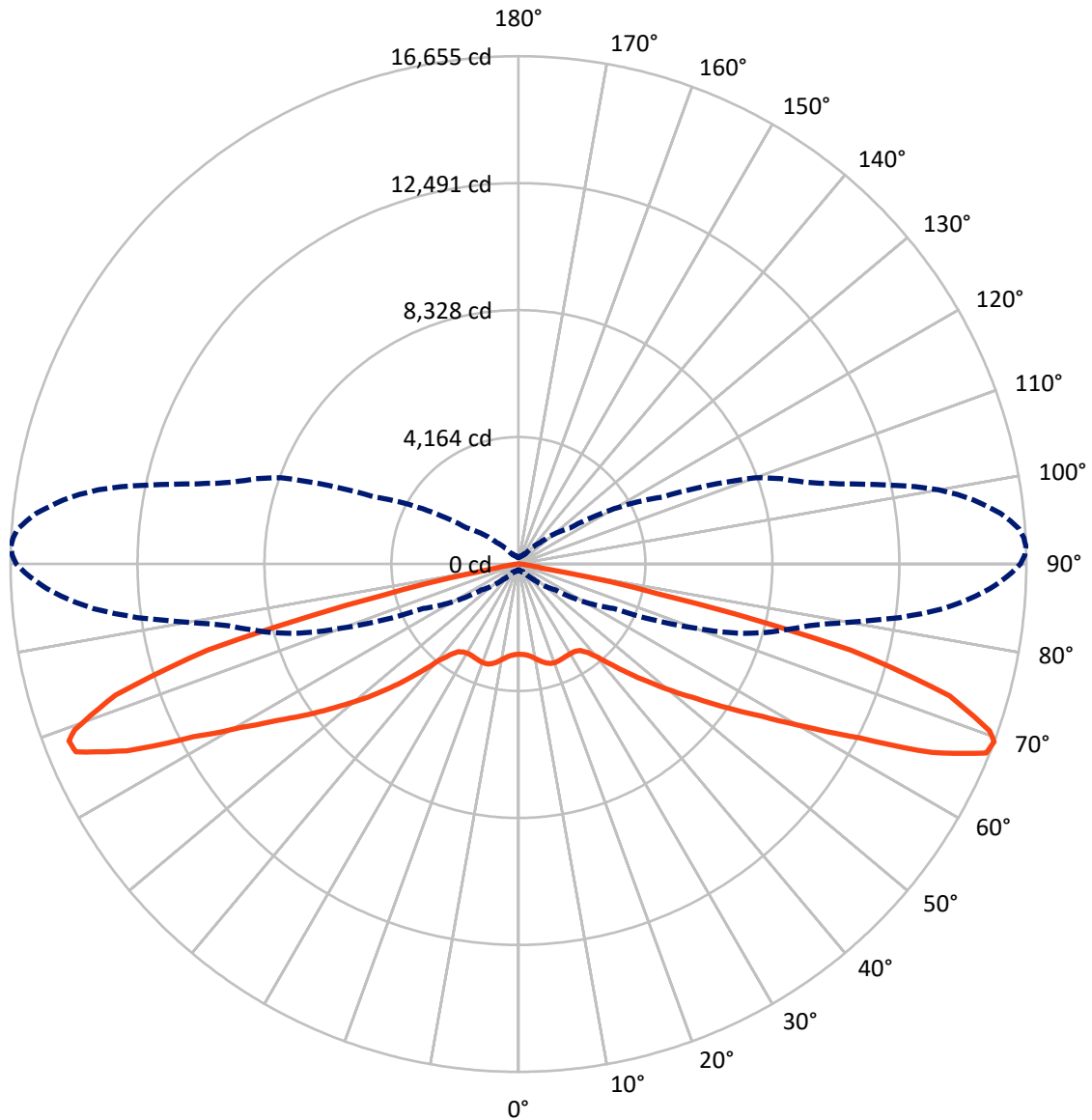
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type I - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8261.3   | 0.0    | 8261.3  |
|                    | % Fixture | 53.0     | 0.0    | 53.0    |
| <b>Street Side</b> | Lumens    | 7315.7   | 0.0    | 7315.7  |
|                    | % Fixture | 47.0     | 0.0    | 47.0    |
| <b>Total</b>       | Lumens    | 15577.1  | 0.0    | 15577.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 289.5   | 1.9       |
| 10°-20°   | 914.7   | 5.9       |
| 20°-30°   | 1484.0  | 9.5       |
| 30°-40°   | 1849.4  | 11.9      |
| 40°-50°   | 2302.7  | 14.8      |
| 50°-60°   | 2839.8  | 18.2      |
| 60°-70°   | 3526.9  | 22.6      |
| 70°-80°   | 2167.0  | 13.9      |
| 80°-90°   | 203.1   | 1.3       |
| 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°    | 15577.1 | 100.0     |
| 0°-180°   | 15577.1 | 100.0     |



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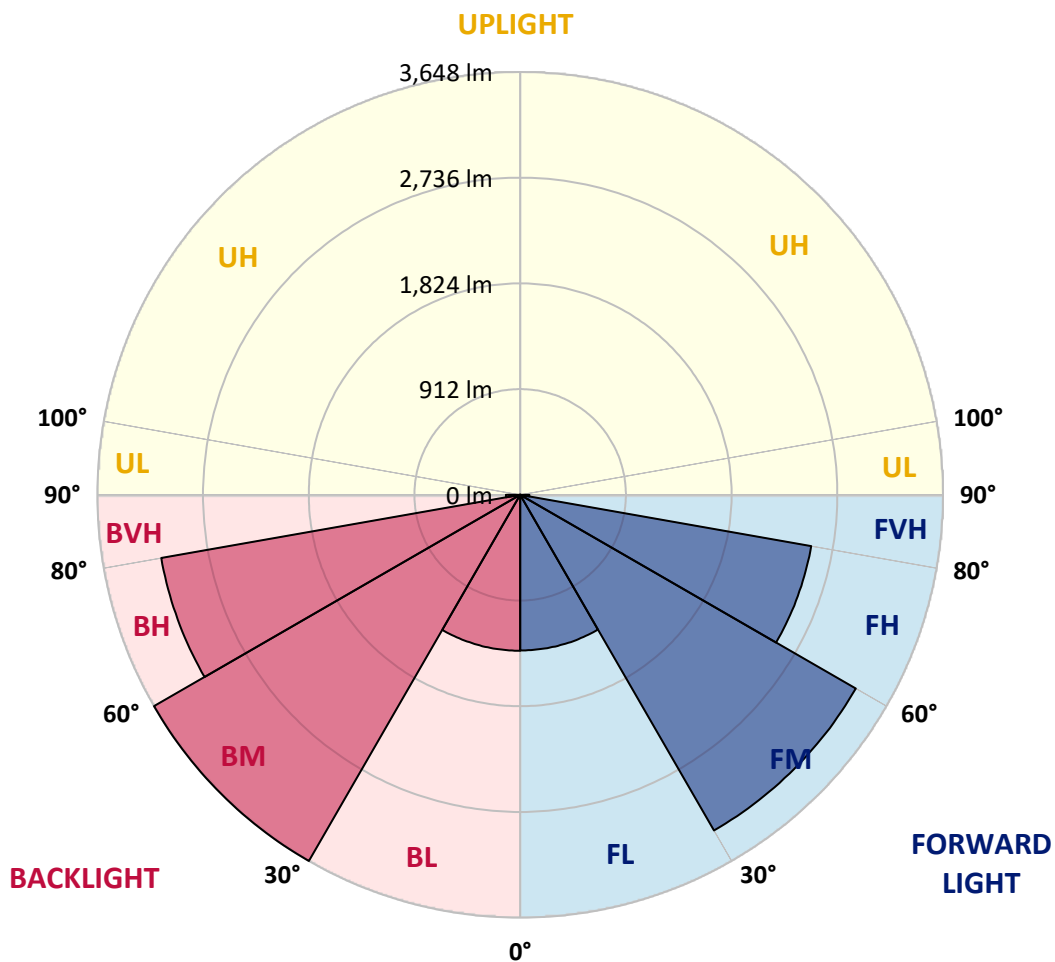
CATALOG NUMBER: VTS-E05-LED-E1-RW

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1342.7 | 8.6       |                         |      |         |
| FM   | (30°-60°)   | 3343.8 | 21.5      |                         |      |         |
| FH   | (60°-80°)   | 2549.8 | 16.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 79.5   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1345.5 | 8.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3648.1 | 23.4      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3144.1 | 20.2      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 123.6  | 0.8       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 70°  | 71°  | 72°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 2959 | 2959 | 2959 | 2959 | 2959 | 2959 | 2959 | 2959 | 2959 | 2959 | 2959 |
| 2.5°  | 3006 | 2998 | 3005 | 3006 | 3005 | 3005 | 2996 | 2994 | 2982 | 2985 | 2984 |
| 5°    | 3047 | 3044 | 3049 | 3051 | 3053 | 3049 | 3042 | 3039 | 3031 | 3028 | 3027 |
| 7.5°  | 3085 | 3080 | 3088 | 3095 | 3100 | 3101 | 3102 | 3097 | 3097 | 3093 | 3093 |
| 10°   | 3117 | 3113 | 3126 | 3135 | 3151 | 3160 | 3170 | 3177 | 3181 | 3182 | 3181 |
| 12.5° | 3131 | 3128 | 3149 | 3176 | 3206 | 3227 | 3252 | 3270 | 3275 | 3274 | 3279 |
| 15°   | 3107 | 3109 | 3141 | 3194 | 3258 | 3311 | 3346 | 3361 | 3365 | 3367 | 3368 |
| 17.5° | 3042 | 3046 | 3092 | 3178 | 3290 | 3386 | 3438 | 3438 | 3430 | 3430 | 3429 |
| 20°   | 2938 | 2942 | 3002 | 3126 | 3291 | 3438 | 3512 | 3497 | 3467 | 3461 | 3455 |
| 22.5° | 2794 | 2810 | 2876 | 3020 | 3248 | 3453 | 3558 | 3536 | 3489 | 3476 | 3467 |
| 25°   | 2631 | 2629 | 2708 | 2870 | 3144 | 3417 | 3571 | 3567 | 3517 | 3503 | 3487 |
| 27.5° | 2445 | 2451 | 2524 | 2688 | 2985 | 3313 | 3549 | 3602 | 3561 | 3547 | 3532 |
| 30°   | 2254 | 2260 | 2329 | 2520 | 2804 | 3164 | 3504 | 3636 | 3620 | 3609 | 3599 |
| 32.5° | 2062 | 2064 | 2146 | 2351 | 2651 | 2986 | 3436 | 3667 | 3689 | 3684 | 3680 |
| 35°   | 1882 | 1884 | 1973 | 2181 | 2500 | 2834 | 3354 | 3712 | 3783 | 3789 | 3793 |
| 37.5° | 1707 | 1710 | 1801 | 2019 | 2351 | 2719 | 3263 | 3781 | 3915 | 3937 | 3941 |
| 40°   | 1533 | 1536 | 1623 | 1854 | 2200 | 2618 | 3193 | 3878 | 4093 | 4123 | 4154 |
| 42.5° | 1367 | 1378 | 1452 | 1673 | 2032 | 2493 | 3163 | 3996 | 4304 | 4351 | 4386 |
| 45°   | 1212 | 1213 | 1297 | 1504 | 1833 | 2324 | 3143 | 4130 | 4540 | 4611 | 4659 |
| 47.5° | 1046 | 1058 | 1146 | 1347 | 1647 | 2115 | 3079 | 4287 | 4797 | 4880 | 4977 |
| 50°   | 885  | 902  | 987  | 1186 | 1477 | 1899 | 2907 | 4471 | 5086 | 5194 | 5306 |
| 52.5° | 730  | 729  | 819  | 1026 | 1306 | 1716 | 2628 | 4664 | 5420 | 5536 | 5657 |
| 55°   | 552  | 552  | 641  | 830  | 1121 | 1553 | 2329 | 4784 | 5730 | 5870 | 6002 |
| 57.5° | 379  | 389  | 473  | 636  | 928  | 1404 | 2100 | 4715 | 5967 | 6141 | 6298 |
| 60°   | 281  | 291  | 353  | 457  | 726  | 1228 | 1928 | 4390 | 6110 | 6341 | 6545 |
| 62.5° | 243  | 250  | 309  | 366  | 523  | 1041 | 1776 | 3977 | 6316 | 6632 | 6916 |
| 65°   | 217  | 224  | 283  | 316  | 409  | 837  | 1691 | 3741 | 6562 | 7045 | 7457 |
| 67.5° | 201  | 209  | 259  | 283  | 357  | 757  | 1625 | 3686 | 6560 | 7146 | 7672 |
| 69°   | 193  | 199  | 240  | 266  | 345  | 733  | 1482 | 3447 | 6127 | 6756 | 7284 |
| 70°   | 188  | 194  | 229  | 255  | 341  | 690  | 1350 | 3131 | 5634 | 6267 | 6803 |
| 72.5° | 172  | 178  | 204  | 228  | 284  | 461  | 941  | 2004 | 4026 | 4478 | 5091 |
| 75°   | 152  | 159  | 179  | 199  | 215  | 267  | 543  | 1040 | 2302 | 2645 | 3191 |
| 77.5° | 124  | 131  | 152  | 184  | 182  | 203  | 353  | 639  | 1078 | 1337 | 1539 |
| 80°   | 102  | 107  | 125  | 186  | 149  | 170  | 286  | 524  | 759  | 839  | 887  |
| 82.5° | 68   | 75   | 97   | 146  | 114  | 121  | 214  | 490  | 642  | 704  | 762  |
| 85°   | 32   | 35   | 59   | 78   | 69   | 65   | 122  | 346  | 478  | 507  | 529  |
| 87.5° | 0    | 0    | 3    | 6    | 9    | 9    | 22   | 73   | 134  | 162  | 160  |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 73°  | 74°  | 75°  | 76°  | 77°  | 78°   | 79°   | 80°   | 81°   | 82°   | 83°   |
|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 0°    | 2959 | 2959 | 2959 | 2959 | 2959 | 2959  | 2959  | 2959  | 2959  | 2959  | 2959  |
| 2.5°  | 2980 | 2981 | 2980 | 2980 | 2979 | 2977  | 2977  | 2975  | 2976  | 2975  | 2977  |
| 5°    | 3026 | 3026 | 3023 | 3021 | 3024 | 3021  | 3022  | 3017  | 3017  | 3014  | 3010  |
| 7.5°  | 3092 | 3092 | 3093 | 3087 | 3091 | 3092  | 3089  | 3087  | 3085  | 3080  | 3081  |
| 10°   | 3180 | 3180 | 3183 | 3175 | 3179 | 3181  | 3182  | 3182  | 3180  | 3171  | 3172  |
| 12.5° | 3278 | 3276 | 3277 | 3273 | 3277 | 3279  | 3281  | 3279  | 3279  | 3277  | 3276  |
| 15°   | 3367 | 3366 | 3368 | 3365 | 3366 | 3368  | 3374  | 3373  | 3372  | 3366  | 3366  |
| 17.5° | 3428 | 3425 | 3423 | 3422 | 3422 | 3421  | 3422  | 3422  | 3419  | 3418  | 3418  |
| 20°   | 3451 | 3443 | 3438 | 3435 | 3431 | 3429  | 3427  | 3428  | 3426  | 3423  | 3424  |
| 22.5° | 3455 | 3444 | 3434 | 3425 | 3417 | 3412  | 3407  | 3405  | 3400  | 3397  | 3397  |
| 25°   | 3474 | 3457 | 3441 | 3426 | 3414 | 3403  | 3392  | 3384  | 3378  | 3371  | 3369  |
| 27.5° | 3516 | 3498 | 3479 | 3460 | 3444 | 3422  | 3407  | 3391  | 3377  | 3366  | 3358  |
| 30°   | 3581 | 3563 | 3544 | 3522 | 3501 | 3478  | 3453  | 3434  | 3414  | 3392  | 3380  |
| 32.5° | 3667 | 3655 | 3636 | 3615 | 3596 | 3572  | 3542  | 3513  | 3494  | 3468  | 3449  |
| 35°   | 3790 | 3776 | 3770 | 3761 | 3742 | 3727  | 3694  | 3667  | 3649  | 3613  | 3599  |
| 37.5° | 3958 | 3957 | 3962 | 3959 | 3962 | 3943  | 3928  | 3927  | 3901  | 3866  | 3832  |
| 40°   | 4187 | 4199 | 4226 | 4245 | 4263 | 4265  | 4286  | 4264  | 4267  | 4262  | 4227  |
| 42.5° | 4448 | 4489 | 4521 | 4577 | 4620 | 4660  | 4687  | 4724  | 4752  | 4777  | 4783  |
| 45°   | 4739 | 4800 | 4874 | 4924 | 5008 | 5075  | 5167  | 5238  | 5312  | 5385  | 5411  |
| 47.5° | 5055 | 5131 | 5213 | 5306 | 5412 | 5517  | 5659  | 5768  | 5887  | 5986  | 6074  |
| 50°   | 5404 | 5483 | 5593 | 5700 | 5846 | 5967  | 6153  | 6296  | 6488  | 6620  | 6734  |
| 52.5° | 5768 | 5867 | 5990 | 6108 | 6257 | 6412  | 6619  | 6830  | 7061  | 7261  | 7427  |
| 55°   | 6124 | 6246 | 6364 | 6502 | 6667 | 6847  | 7081  | 7359  | 7647  | 7876  | 8096  |
| 57.5° | 6441 | 6582 | 6721 | 6861 | 7030 | 7239  | 7502  | 7802  | 8132  | 8437  | 8739  |
| 60°   | 6735 | 6904 | 7074 | 7249 | 7443 | 7701  | 8017  | 8386  | 8813  | 9230  | 9625  |
| 62.5° | 7200 | 7422 | 7633 | 7859 | 8093 | 8396  | 8769  | 9253  | 9743  | 10264 | 10669 |
| 65°   | 7830 | 8142 | 8418 | 8711 | 9014 | 9419  | 9865  | 10444 | 11146 | 11680 | 12330 |
| 67.5° | 8143 | 8554 | 8909 | 9235 | 9610 | 10019 | 10549 | 11234 | 11983 | 12757 | 13482 |
| 69°   | 7775 | 8199 | 8592 | 8957 | 9336 | 9733  | 10287 | 10990 | 11782 | 12619 | 13327 |
| 70°   | 7298 | 7722 | 8141 | 8557 | 8903 | 9290  | 9846  | 10571 | 11362 | 12232 | 12934 |
| 72.5° | 5591 | 6101 | 6480 | 6870 | 7271 | 7599  | 8241  | 8852  | 9676  | 10559 | 11332 |
| 75°   | 3577 | 4046 | 4460 | 4792 | 5184 | 5577  | 6051  | 6730  | 7246  | 7971  | 8598  |
| 77.5° | 1838 | 1977 | 2376 | 2495 | 2767 | 2981  | 3242  | 3412  | 3832  | 3921  | 4291  |
| 80°   | 871  | 785  | 739  | 697  | 709  | 704   | 683   | 655   | 690   | 675   | 669   |
| 82.5° | 759  | 677  | 540  | 459  | 397  | 337   | 290   | 266   | 269   | 277   | 280   |
| 85°   | 532  | 500  | 390  | 296  | 231  | 179   | 144   | 138   | 142   | 153   | 149   |
| 87.5° | 154  | 161  | 142  | 99   | 69   | 50    | 39    | 44    | 42    | 41    | 43    |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     |





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**CANDELA DISTRIBUTION (continued):**

|       | 84°   | 85°   | 86°   | 87°   | 88°   | 89°   | 90°   | 91°   | 92°   | 93°   | 94°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 2959  | 2959  | 2959  | 2959  | 2959  | 2959  | 2959  | 2959  | 2959  | 2959  | 2959  |
| 2.5°  | 2977  | 2976  | 2973  | 2970  | 2970  | 2968  | 2970  | 2971  | 2970  | 2970  | 2968  |
| 5°    | 3011  | 3012  | 3015  | 3009  | 3008  | 3009  | 3005  | 3004  | 3001  | 3004  | 3000  |
| 7.5°  | 3076  | 3079  | 3079  | 3075  | 3074  | 3077  | 3071  | 3069  | 3066  | 3065  | 3064  |
| 10°   | 3173  | 3176  | 3171  | 3168  | 3165  | 3169  | 3164  | 3164  | 3161  | 3158  | 3157  |
| 12.5° | 3281  | 3279  | 3277  | 3279  | 3276  | 3276  | 3273  | 3271  | 3270  | 3269  | 3267  |
| 15°   | 3365  | 3372  | 3372  | 3374  | 3372  | 3372  | 3368  | 3369  | 3367  | 3366  | 3367  |
| 17.5° | 3419  | 3421  | 3426  | 3429  | 3429  | 3430  | 3428  | 3430  | 3428  | 3428  | 3432  |
| 20°   | 3426  | 3428  | 3433  | 3438  | 3441  | 3443  | 3443  | 3446  | 3448  | 3450  | 3455  |
| 22.5° | 3398  | 3401  | 3407  | 3416  | 3421  | 3423  | 3427  | 3432  | 3437  | 3441  | 3448  |
| 25°   | 3369  | 3370  | 3376  | 3385  | 3391  | 3396  | 3403  | 3409  | 3416  | 3424  | 3432  |
| 27.5° | 3353  | 3352  | 3357  | 3366  | 3371  | 3378  | 3384  | 3393  | 3401  | 3411  | 3418  |
| 30°   | 3367  | 3359  | 3360  | 3364  | 3368  | 3373  | 3380  | 3388  | 3397  | 3406  | 3414  |
| 32.5° | 3429  | 3411  | 3399  | 3396  | 3397  | 3398  | 3402  | 3407  | 3414  | 3421  | 3424  |
| 35°   | 3563  | 3532  | 3516  | 3503  | 3492  | 3483  | 3485  | 3484  | 3484  | 3490  | 3483  |
| 37.5° | 3818  | 3779  | 3762  | 3739  | 3726  | 3693  | 3684  | 3682  | 3669  | 3669  | 3654  |
| 40°   | 4218  | 4195  | 4182  | 4161  | 4098  | 4106  | 4061  | 4062  | 4025  | 4029  | 4003  |
| 42.5° | 4787  | 4790  | 4774  | 4760  | 4711  | 4689  | 4647  | 4587  | 4540  | 4539  | 4487  |
| 45°   | 5445  | 5481  | 5430  | 5448  | 5405  | 5346  | 5297  | 5220  | 5147  | 5124  | 5071  |
| 47.5° | 6133  | 6192  | 6153  | 6160  | 6139  | 6055  | 5989  | 5894  | 5799  | 5735  | 5703  |
| 50°   | 6868  | 6907  | 6906  | 6887  | 6877  | 6795  | 6689  | 6617  | 6547  | 6461  | 6433  |
| 52.5° | 7534  | 7625  | 7686  | 7672  | 7643  | 7594  | 7500  | 7438  | 7335  | 7323  | 7335  |
| 55°   | 8247  | 8365  | 8427  | 8502  | 8503  | 8494  | 8455  | 8432  | 8336  | 8347  | 8333  |
| 57.5° | 8922  | 9095  | 9190  | 9350  | 9405  | 9478  | 9451  | 9481  | 9423  | 9461  | 9450  |
| 60°   | 9837  | 10077 | 10235 | 10454 | 10556 | 10739 | 10775 | 10797 | 10829 | 10907 | 10863 |
| 62.5° | 10988 | 11340 | 11668 | 11966 | 12064 | 12339 | 12384 | 12556 | 12565 | 12618 | 12521 |
| 65°   | 12872 | 13301 | 13662 | 14019 | 14225 | 14547 | 14677 | 15011 | 14909 | 14952 | 14745 |
| 67.5° | 14106 | 14605 | 15089 | 15427 | 15769 | 16098 | 16335 | 16551 | 16549 | 16507 | 16323 |
| 69°   | 13997 | 14553 | 15030 | 15483 | 15843 | 16181 | 16466 | 16606 | 16655 | 16594 | 16463 |
| 70°   | 13620 | 14191 | 14775 | 15148 | 15540 | 15911 | 16205 | 16358 | 16392 | 16349 | 16236 |
| 72.5° | 11878 | 12426 | 13070 | 13409 | 13883 | 14151 | 14556 | 14754 | 14789 | 14734 | 14660 |
| 75°   | 9270  | 9369  | 10025 | 10241 | 10585 | 10894 | 11146 | 11082 | 11261 | 11226 | 11198 |
| 77.5° | 4367  | 4103  | 4528  | 4726  | 4622  | 4345  | 4748  | 4457  | 4650  | 4901  | 4837  |
| 80°   | 720   | 718   | 737   | 779   | 729   | 774   | 773   | 751   | 753   | 807   | 779   |
| 82.5° | 277   | 283   | 286   | 294   | 294   | 295   | 300   | 306   | 301   | 311   | 309   |
| 85°   | 150   | 160   | 151   | 144   | 149   | 152   | 156   | 161   | 156   | 171   | 163   |
| 87.5° | 39    | 41    | 36    | 36    | 35    | 32    | 32    | 34    | 37    | 44    | 48    |
| 90°   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 95°   | 96°   | 97°   | 98°   | 99°   | 100°  | 101°  | 102°  | 103°  | 104°  | 105°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 2959  | 2959  | 2959  | 2959  | 2959  | 2959  | 2959  | 2959  | 2959  | 2959  | 2959  |
| 2.5°  | 2964  | 2965  | 2966  | 2963  | 2961  | 2961  | 2960  | 2958  | 2957  | 2957  | 2957  |
| 5°    | 2998  | 3000  | 2995  | 2994  | 2992  | 2990  | 2990  | 2988  | 2989  | 2989  | 2984  |
| 7.5°  | 3066  | 3063  | 3057  | 3053  | 3057  | 3050  | 3047  | 3049  | 3047  | 3048  | 3046  |
| 10°   | 3157  | 3157  | 3150  | 3154  | 3149  | 3141  | 3144  | 3141  | 3139  | 3132  | 3136  |
| 12.5° | 3270  | 3267  | 3263  | 3254  | 3251  | 3250  | 3241  | 3242  | 3239  | 3237  | 3234  |
| 15°   | 3369  | 3368  | 3359  | 3354  | 3353  | 3349  | 3345  | 3343  | 3338  | 3337  | 3335  |
| 17.5° | 3435  | 3432  | 3428  | 3423  | 3423  | 3417  | 3415  | 3410  | 3409  | 3406  | 3403  |
| 20°   | 3457  | 3458  | 3454  | 3450  | 3448  | 3444  | 3441  | 3437  | 3435  | 3431  | 3428  |
| 22.5° | 3452  | 3452  | 3448  | 3447  | 3443  | 3437  | 3433  | 3428  | 3423  | 3418  | 3412  |
| 25°   | 3436  | 3435  | 3432  | 3427  | 3422  | 3413  | 3405  | 3397  | 3390  | 3384  | 3375  |
| 27.5° | 3422  | 3420  | 3414  | 3407  | 3397  | 3387  | 3372  | 3361  | 3352  | 3344  | 3334  |
| 30°   | 3417  | 3410  | 3401  | 3390  | 3378  | 3363  | 3347  | 3333  | 3323  | 3315  | 3311  |
| 32.5° | 3423  | 3414  | 3400  | 3386  | 3371  | 3353  | 3337  | 3325  | 3316  | 3314  | 3314  |
| 35°   | 3478  | 3463  | 3444  | 3424  | 3405  | 3390  | 3379  | 3378  | 3372  | 3379  | 3390  |
| 37.5° | 3639  | 3626  | 3597  | 3571  | 3558  | 3551  | 3541  | 3543  | 3529  | 3551  | 3569  |
| 40°   | 3981  | 3965  | 3931  | 3910  | 3884  | 3859  | 3879  | 3873  | 3883  | 3879  | 3898  |
| 42.5° | 4480  | 4464  | 4410  | 4402  | 4391  | 4381  | 4381  | 4373  | 4369  | 4383  | 4367  |
| 45°   | 5087  | 5055  | 5035  | 5059  | 5026  | 5036  | 5071  | 5024  | 5035  | 4970  | 4910  |
| 47.5° | 5717  | 5714  | 5709  | 5738  | 5743  | 5758  | 5777  | 5729  | 5642  | 5593  | 5471  |
| 50°   | 6442  | 6473  | 6485  | 6513  | 6525  | 6536  | 6506  | 6435  | 6288  | 6158  | 6014  |
| 52.5° | 7323  | 7269  | 7343  | 7370  | 7358  | 7314  | 7206  | 7119  | 6916  | 6729  | 6506  |
| 55°   | 8349  | 8362  | 8310  | 8289  | 8248  | 8126  | 7977  | 7781  | 7524  | 7280  | 6998  |
| 57.5° | 9394  | 9389  | 9308  | 9194  | 9055  | 8908  | 8686  | 8405  | 8105  | 7777  | 7436  |
| 60°   | 10665 | 10660 | 10496 | 10301 | 10103 | 9866  | 9518  | 9180  | 8778  | 8347  | 7941  |
| 62.5° | 12335 | 12120 | 11959 | 11668 | 11362 | 11052 | 10581 | 10132 | 9595  | 9051  | 8577  |
| 65°   | 14475 | 14121 | 13938 | 13516 | 13042 | 12558 | 12079 | 11489 | 10766 | 10108 | 9529  |
| 67.5° | 16058 | 15734 | 15399 | 14978 | 14458 | 13918 | 13262 | 12519 | 11698 | 10960 | 10329 |
| 69°   | 16197 | 15894 | 15492 | 15070 | 14578 | 13991 | 13275 | 12443 | 11611 | 10864 | 10243 |
| 70°   | 15986 | 15664 | 15241 | 14802 | 14252 | 13698 | 12948 | 12081 | 11248 | 10499 | 9893  |
| 72.5° | 14412 | 14098 | 13648 | 13123 | 12559 | 12085 | 11373 | 10469 | 9563  | 8871  | 8399  |
| 75°   | 10959 | 10890 | 10571 | 10265 | 9821  | 9292  | 8641  | 8033  | 7290  | 6558  | 6118  |
| 77.5° | 4676  | 4835  | 5001  | 5025  | 5041  | 4878  | 4777  | 4624  | 4127  | 3901  | 3668  |
| 80°   | 864   | 772   | 824   | 830   | 864   | 882   | 948   | 1124  | 1144  | 1187  | 1240  |
| 82.5° | 307   | 312   | 320   | 323   | 326   | 338   | 383   | 459   | 528   | 618   | 738   |
| 85°   | 174   | 177   | 184   | 190   | 194   | 206   | 231   | 276   | 344   | 447   | 606   |
| 87.5° | 53    | 60    | 64    | 72    | 75    | 77    | 88    | 118   | 152   | 225   | 328   |
| 90°   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 106° | 107° | 108° | 109° | 110° | 115° | 125° | 135° | 145° | 155° | 165° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 2959 | 2959 | 2959 | 2959 | 2959 | 2959 | 2959 | 2959 | 2959 | 2959 | 2959 |
| 2.5°  | 2957 | 2956 | 2954 | 2952 | 2953 | 2951 | 2945 | 2943 | 2936 | 2931 | 2927 |
| 5°    | 2984 | 2983 | 2979 | 2980 | 2979 | 2969 | 2962 | 2950 | 2943 | 2932 | 2928 |
| 7.5°  | 3040 | 3039 | 3032 | 3035 | 3033 | 3018 | 3006 | 2987 | 2977 | 2963 | 2952 |
| 10°   | 3124 | 3124 | 3116 | 3117 | 3117 | 3097 | 3076 | 3044 | 3021 | 2999 | 2980 |
| 12.5° | 3226 | 3222 | 3221 | 3216 | 3212 | 3190 | 3158 | 3115 | 3072 | 3036 | 3010 |
| 15°   | 3329 | 3323 | 3320 | 3314 | 3309 | 3289 | 3246 | 3193 | 3135 | 3077 | 3034 |
| 17.5° | 3396 | 3392 | 3386 | 3384 | 3377 | 3357 | 3327 | 3274 | 3202 | 3121 | 3056 |
| 20°   | 3421 | 3414 | 3410 | 3406 | 3402 | 3388 | 3388 | 3354 | 3274 | 3160 | 3061 |
| 22.5° | 3405 | 3401 | 3395 | 3392 | 3388 | 3390 | 3429 | 3424 | 3332 | 3169 | 3025 |
| 25°   | 3368 | 3363 | 3358 | 3358 | 3357 | 3378 | 3472 | 3485 | 3349 | 3125 | 2946 |
| 27.5° | 3330 | 3323 | 3325 | 3326 | 3331 | 3376 | 3519 | 3501 | 3303 | 3019 | 2810 |
| 30°   | 3307 | 3307 | 3312 | 3320 | 3330 | 3409 | 3556 | 3465 | 3184 | 2859 | 2630 |
| 32.5° | 3317 | 3327 | 3338 | 3358 | 3373 | 3482 | 3569 | 3372 | 3011 | 2661 | 2442 |
| 35°   | 3406 | 3418 | 3439 | 3470 | 3488 | 3587 | 3569 | 3236 | 2810 | 2491 | 2248 |
| 37.5° | 3600 | 3612 | 3637 | 3661 | 3679 | 3719 | 3554 | 3063 | 2642 | 2315 | 2074 |
| 40°   | 3912 | 3929 | 3947 | 3943 | 3931 | 3892 | 3524 | 2902 | 2487 | 2161 | 1903 |
| 42.5° | 4351 | 4335 | 4333 | 4294 | 4254 | 4087 | 3502 | 2797 | 2354 | 1999 | 1733 |
| 45°   | 4858 | 4793 | 4726 | 4674 | 4613 | 4301 | 3496 | 2712 | 2207 | 1819 | 1548 |
| 47.5° | 5368 | 5264 | 5134 | 5053 | 4954 | 4529 | 3514 | 2598 | 2018 | 1623 | 1375 |
| 50°   | 5868 | 5698 | 5537 | 5440 | 5328 | 4791 | 3543 | 2406 | 1792 | 1445 | 1217 |
| 52.5° | 6331 | 6112 | 5947 | 5833 | 5696 | 5096 | 3517 | 2154 | 1596 | 1274 | 1067 |
| 55°   | 6771 | 6529 | 6358 | 6238 | 6077 | 5402 | 3329 | 1925 | 1409 | 1107 | 898  |
| 57.5° | 7156 | 6924 | 6746 | 6583 | 6447 | 5668 | 2958 | 1736 | 1229 | 916  | 715  |
| 60°   | 7606 | 7345 | 7134 | 6960 | 6800 | 5805 | 2542 | 1568 | 1037 | 709  | 517  |
| 62.5° | 8213 | 7913 | 7669 | 7470 | 7261 | 5835 | 2258 | 1400 | 823  | 513  | 376  |
| 65°   | 9113 | 8743 | 8438 | 8164 | 7881 | 5711 | 2118 | 1217 | 612  | 381  | 315  |
| 67.5° | 9828 | 9444 | 9091 | 8739 | 8377 | 5481 | 2087 | 1048 | 470  | 324  | 283  |
| 69°   | 9741 | 9375 | 9051 | 8670 | 8269 | 5192 | 2056 | 983  | 429  | 301  | 268  |
| 70°   | 9406 | 9059 | 8730 | 8420 | 7929 | 4870 | 1974 | 947  | 413  | 290  | 257  |
| 72.5° | 7948 | 7546 | 7227 | 6841 | 6324 | 3619 | 1497 | 766  | 379  | 265  | 232  |
| 75°   | 5797 | 5464 | 5146 | 4719 | 4216 | 2094 | 932  | 438  | 278  | 240  | 210  |
| 77.5° | 3385 | 3310 | 3003 | 2722 | 2224 | 1066 | 535  | 262  | 216  | 218  | 185  |
| 80°   | 1274 | 1357 | 1388 | 1291 | 1193 | 736  | 389  | 213  | 188  | 215  | 157  |
| 82.5° | 929  | 1078 | 1096 | 1050 | 977  | 686  | 311  | 171  | 153  | 231  | 135  |
| 85°   | 775  | 858  | 871  | 823  | 799  | 581  | 217  | 120  | 112  | 166  | 101  |
| 87.5° | 392  | 413  | 424  | 384  | 386  | 271  | 87   | 51   | 61   | 71   | 56   |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 175° | 180° |
|-------|------|------|
| 0°    | 2959 | 2959 |
| 2.5°  | 2918 | 2924 |
| 5°    | 2922 | 2922 |
| 7.5°  | 2945 | 2945 |
| 10°   | 2970 | 2971 |
| 12.5° | 2993 | 2992 |
| 15°   | 3011 | 3008 |
| 17.5° | 3022 | 3019 |
| 20°   | 3011 | 3006 |
| 22.5° | 2955 | 2941 |
| 25°   | 2853 | 2835 |
| 27.5° | 2718 | 2706 |
| 30°   | 2542 | 2524 |
| 32.5° | 2336 | 2327 |
| 35°   | 2139 | 2128 |
| 37.5° | 1959 | 1956 |
| 40°   | 1807 | 1791 |
| 42.5° | 1629 | 1622 |
| 45°   | 1448 | 1444 |
| 47.5° | 1278 | 1274 |
| 50°   | 1121 | 1113 |
| 52.5° | 967  | 954  |
| 55°   | 796  | 787  |
| 57.5° | 611  | 603  |
| 60°   | 430  | 421  |
| 62.5° | 306  | 296  |
| 65°   | 255  | 247  |
| 67.5° | 231  | 222  |
| 69°   | 220  | 212  |
| 70°   | 213  | 207  |
| 72.5° | 198  | 194  |
| 75°   | 181  | 178  |
| 77.5° | 159  | 154  |
| 80°   | 133  | 128  |
| 82.5° | 112  | 107  |
| 85°   | 75   | 68   |
| 87.5° | 34   | 30   |
| 90°   | 0    | 0    |

(END OF REPORT)