

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: INVUE

Report Number: P141600

Luminaire Tested: **EMM-E03-LED-E1-SLR**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141600
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33693)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM-E03-LED-E1-SLR
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7846.6 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 75.2
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

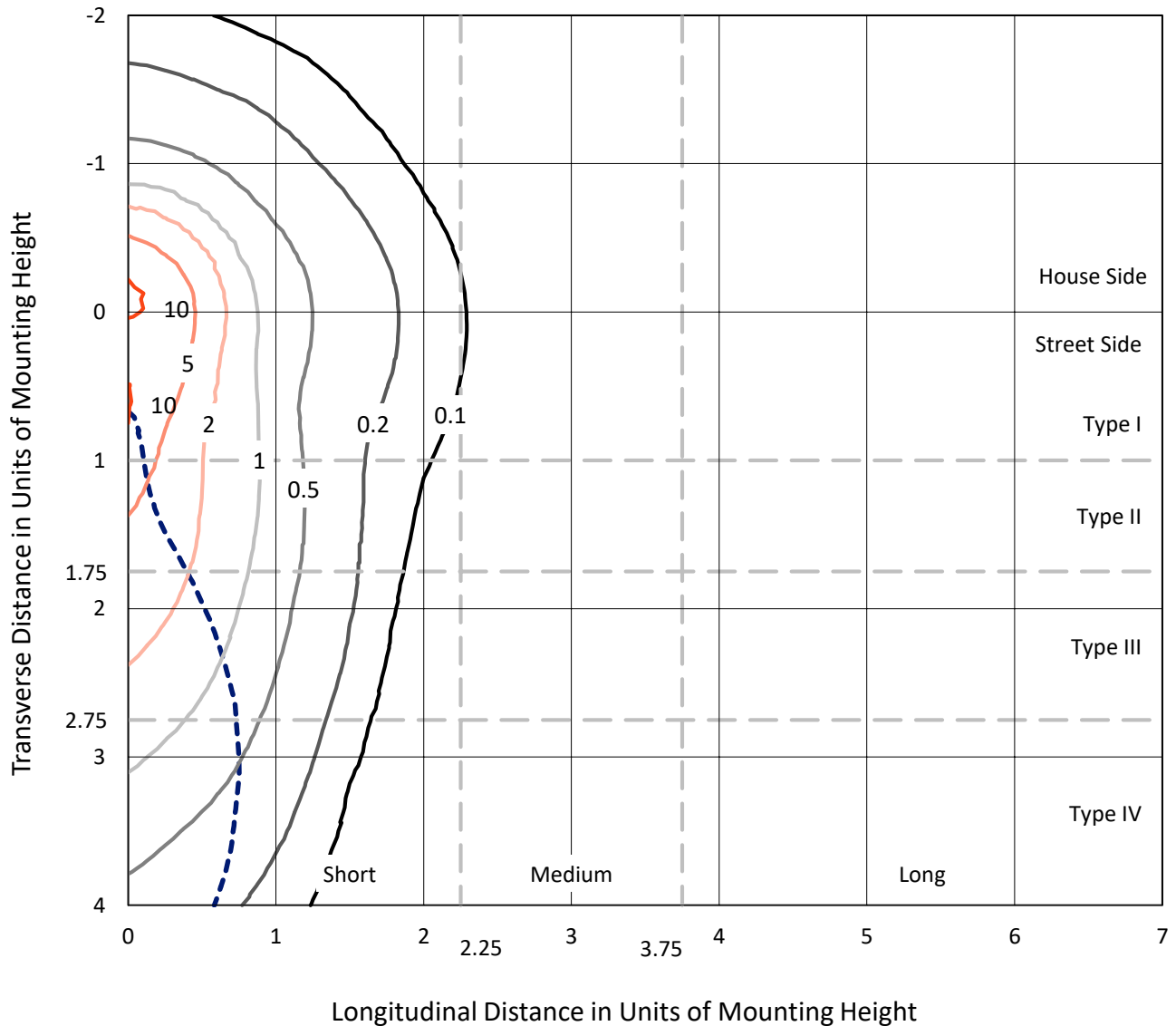


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

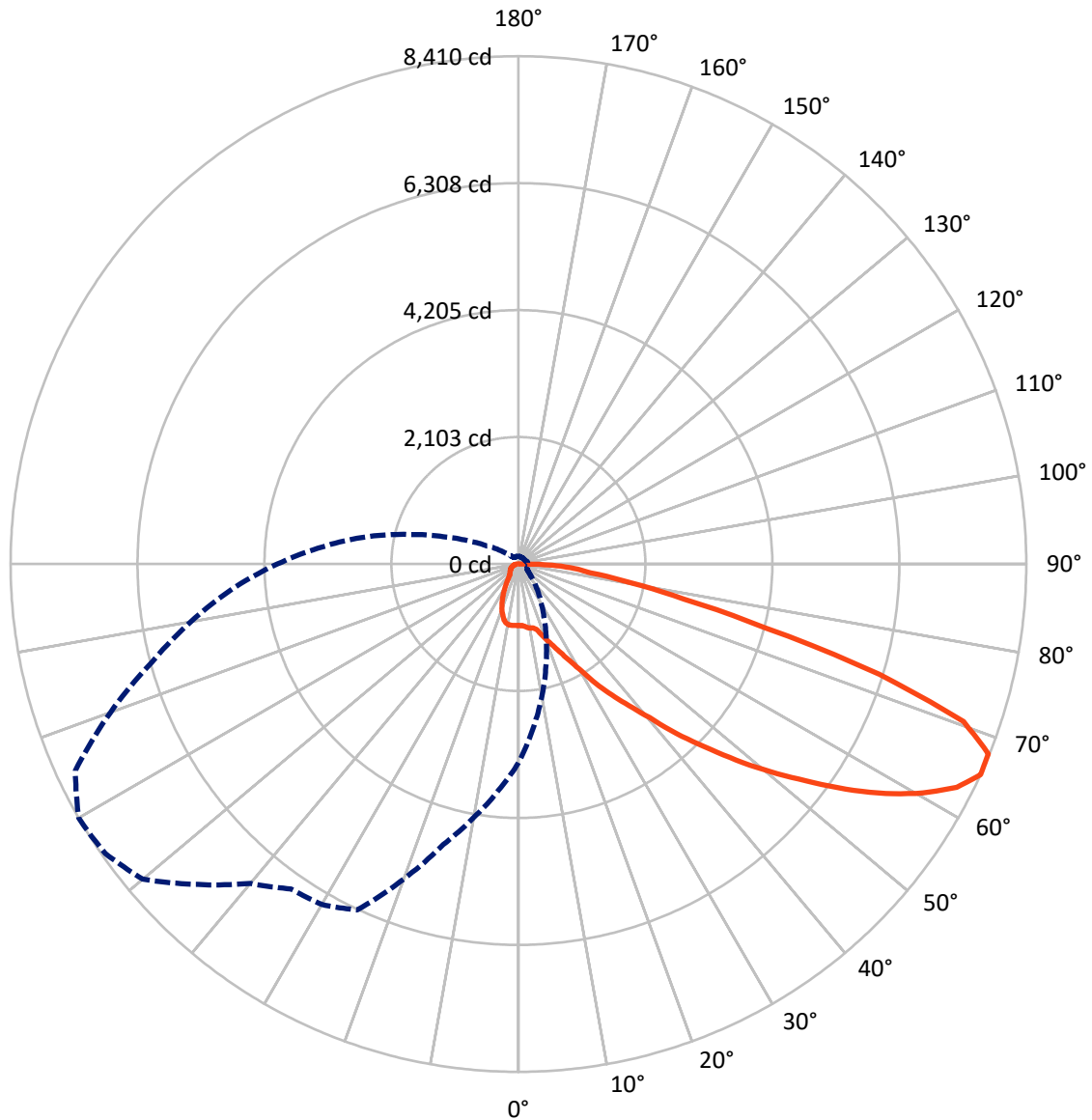


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P141600

CATALOG NUMBER: EMM-E03-LED-E1-SLR

Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P141600

CATALOG NUMBER: EMM-E03-LED-E1-SLR

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1455.4 | 0.0 | 1455.4 |
| | % Fixture | 18.5 | 0.0 | 18.5 |
| Street Side | Lumens | 6391.2 | 0.0 | 6391.2 |
| | % Fixture | 81.5 | 0.0 | 81.5 |
| Total | Lumens | 7846.6 | 0.0 | 7846.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.7 | 1.3 |
| 10°-20° | 296.4 | 3.8 |
| 20°-30° | 492.4 | 6.3 |
| 30°-40° | 719.8 | 9.2 |
| 40°-50° | 1095.0 | 14.0 |
| 50°-60° | 1574.0 | 20.1 |
| 60°-70° | 1935.1 | 24.7 |
| 70°-80° | 1294.6 | 16.5 |
| 80°-90° | 340.6 | 4.3 |
| 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° | 7846.6 | 100.0 |
| 0°-180° | 7846.6 | 100.0 |

Coefficient of Utilization



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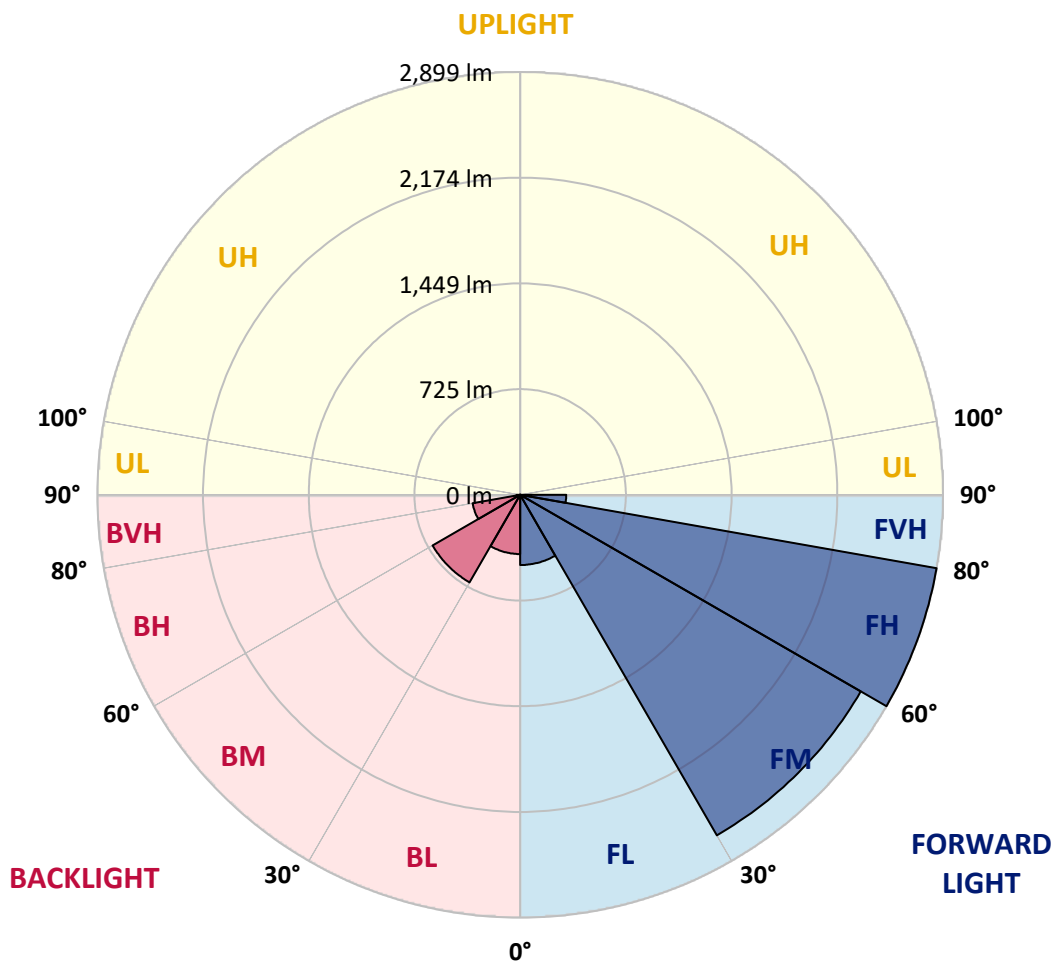
CATALOG NUMBER: EMM-E03-LED-E1-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 481.3 | 6.1 | | | |
| FM (30°-60°) | 2695.6 | 34.4 | | | |
| FH (60°-80°) | 2898.5 | 36.9 | | | G2/5000 |
| FVH (80°-90°) | 315.8 | 4.0 | | | G3/500 |
| BL (0°-30°) | 406.2 | 5.2 | B1/500 | | |
| BM (30°-60°) | 693.2 | 8.8 | B1/1000 | | |
| BH (60°-80°) | 331.2 | 4.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 24.8 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 |
| 2.5° | 1021 | 1024 | 1024 | 1022 | 1021 | 1022 | 1023 | 1022 | 1023 | 1025 | 1024 |
| 5° | 1008 | 1010 | 1011 | 1011 | 1011 | 1013 | 1016 | 1015 | 1018 | 1020 | 1020 |
| 7.5° | 977 | 981 | 981 | 982 | 984 | 987 | 992 | 994 | 999 | 1006 | 1008 |
| 10° | 958 | 959 | 956 | 955 | 957 | 963 | 966 | 971 | 979 | 987 | 995 |
| 12.5° | 963 | 964 | 959 | 960 | 960 | 963 | 972 | 976 | 979 | 984 | 992 |
| 15° | 1004 | 1004 | 998 | 1000 | 1001 | 1005 | 1005 | 998 | 996 | 991 | 987 |
| 17.5° | 1059 | 1051 | 1050 | 1049 | 1053 | 1049 | 1040 | 1024 | 1005 | 985 | 969 |
| 20° | 1116 | 1117 | 1111 | 1110 | 1099 | 1085 | 1059 | 1027 | 993 | 962 | 930 |
| 22.5° | 1201 | 1203 | 1192 | 1170 | 1146 | 1109 | 1062 | 1013 | 964 | 921 | 884 |
| 25° | 1330 | 1309 | 1284 | 1238 | 1177 | 1112 | 1047 | 986 | 922 | 865 | 818 |
| 27.5° | 1458 | 1416 | 1349 | 1274 | 1188 | 1104 | 1027 | 945 | 869 | 800 | 746 |
| 30° | 1577 | 1499 | 1403 | 1296 | 1186 | 1078 | 980 | 887 | 797 | 723 | 659 |
| 32.5° | 1698 | 1584 | 1451 | 1301 | 1156 | 1027 | 914 | 807 | 718 | 628 | 559 |
| 35° | 1850 | 1678 | 1480 | 1282 | 1104 | 947 | 826 | 724 | 628 | 537 | 465 |
| 37.5° | 1989 | 1753 | 1495 | 1250 | 1036 | 864 | 731 | 627 | 537 | 460 | 398 |
| 40° | 2091 | 1802 | 1493 | 1209 | 967 | 779 | 648 | 554 | 473 | 412 | 364 |
| 42.5° | 2171 | 1830 | 1483 | 1170 | 907 | 717 | 594 | 508 | 444 | 395 | 358 |
| 45° | 2226 | 1850 | 1477 | 1139 | 867 | 687 | 576 | 504 | 450 | 406 | 364 |
| 47.5° | 2274 | 1873 | 1475 | 1125 | 858 | 696 | 600 | 535 | 476 | 419 | 363 |
| 50° | 2322 | 1896 | 1493 | 1148 | 892 | 746 | 656 | 573 | 492 | 415 | 346 |
| 52.5° | 2388 | 1963 | 1560 | 1214 | 966 | 816 | 709 | 604 | 495 | 405 | 330 |
| 55° | 2487 | 2067 | 1656 | 1301 | 1046 | 892 | 752 | 616 | 492 | 394 | 315 |
| 57.5° | 2649 | 2220 | 1787 | 1422 | 1150 | 951 | 776 | 621 | 485 | 382 | 303 |
| 60° | 2854 | 2395 | 1952 | 1549 | 1239 | 992 | 786 | 619 | 475 | 368 | 286 |
| 62.5° | 3087 | 2587 | 2101 | 1665 | 1303 | 1011 | 782 | 603 | 452 | 339 | 262 |
| 65° | 3292 | 2740 | 2226 | 1758 | 1343 | 1011 | 757 | 566 | 411 | 298 | 231 |
| 67.5° | 3460 | 2869 | 2322 | 1812 | 1347 | 976 | 697 | 499 | 346 | 247 | 195 |
| 70° | 3548 | 2910 | 2352 | 1806 | 1280 | 875 | 587 | 388 | 254 | 192 | 157 |
| 72.5° | 3451 | 2813 | 2224 | 1632 | 1068 | 653 | 411 | 264 | 182 | 149 | 130 |
| 75° | 3071 | 2387 | 1851 | 1262 | 765 | 407 | 255 | 185 | 144 | 124 | 114 |
| 77.5° | 2293 | 1779 | 1274 | 799 | 438 | 247 | 179 | 141 | 121 | 109 | 100 |
| 80° | 1442 | 1096 | 766 | 440 | 250 | 182 | 149 | 126 | 110 | 95 | 86 |
| 82.5° | 803 | 584 | 390 | 251 | 174 | 147 | 129 | 116 | 98 | 83 | 74 |
| 85° | 549 | 361 | 246 | 165 | 120 | 107 | 96 | 88 | 75 | 63 | 58 |
| 87.5° | 223 | 208 | 151 | 66 | 49 | 44 | 39 | 48 | 40 | 31 | 29 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CATALOG NUMBER: EMM-E03-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 |
| 2.5° | 1026 | 1024 | 1025 | 1024 | 1023 | 1022 | 1021 | 1022 | 1020 | 1021 | 1021 |
| 5° | 1023 | 1021 | 1024 | 1023 | 1021 | 1021 | 1020 | 1020 | 1020 | 1020 | 1021 |
| 7.5° | 1014 | 1014 | 1017 | 1017 | 1015 | 1015 | 1013 | 1012 | 1012 | 1013 | 1015 |
| 10° | 1002 | 1005 | 1010 | 1008 | 1004 | 1002 | 999 | 997 | 996 | 998 | 1000 |
| 12.5° | 993 | 995 | 992 | 989 | 983 | 976 | 975 | 970 | 967 | 972 | 972 |
| 15° | 978 | 970 | 959 | 949 | 935 | 928 | 920 | 918 | 911 | 912 | 917 |
| 17.5° | 946 | 925 | 908 | 898 | 886 | 881 | 872 | 867 | 862 | 857 | 860 |
| 20° | 901 | 878 | 856 | 843 | 824 | 820 | 805 | 805 | 799 | 800 | 806 |
| 22.5° | 844 | 809 | 781 | 765 | 745 | 737 | 730 | 725 | 722 | 728 | 721 |
| 25° | 769 | 727 | 701 | 678 | 656 | 648 | 639 | 636 | 637 | 633 | 640 |
| 27.5° | 692 | 640 | 612 | 586 | 570 | 556 | 549 | 547 | 543 | 554 | 548 |
| 30° | 595 | 548 | 515 | 488 | 469 | 462 | 455 | 453 | 459 | 451 | 447 |
| 32.5° | 497 | 446 | 418 | 395 | 381 | 367 | 365 | 361 | 354 | 363 | 361 |
| 35° | 408 | 365 | 336 | 322 | 303 | 297 | 285 | 282 | 283 | 285 | 284 |
| 37.5° | 354 | 324 | 298 | 279 | 265 | 257 | 253 | 249 | 249 | 247 | 246 |
| 40° | 329 | 304 | 280 | 262 | 251 | 245 | 241 | 237 | 234 | 231 | 228 |
| 42.5° | 325 | 295 | 268 | 250 | 240 | 238 | 237 | 234 | 230 | 225 | 221 |
| 45° | 322 | 284 | 256 | 240 | 233 | 232 | 232 | 229 | 226 | 221 | 215 |
| 47.5° | 312 | 270 | 243 | 231 | 228 | 229 | 228 | 225 | 223 | 218 | 211 |
| 50° | 290 | 249 | 223 | 214 | 213 | 212 | 212 | 211 | 209 | 205 | 198 |
| 52.5° | 271 | 230 | 209 | 203 | 201 | 201 | 199 | 198 | 194 | 191 | 186 |
| 55° | 259 | 220 | 202 | 198 | 198 | 197 | 195 | 192 | 189 | 185 | 179 |
| 57.5° | 248 | 212 | 197 | 194 | 195 | 194 | 192 | 190 | 186 | 181 | 174 |
| 60° | 232 | 200 | 187 | 186 | 188 | 190 | 189 | 188 | 185 | 178 | 168 |
| 62.5° | 209 | 180 | 170 | 172 | 174 | 176 | 175 | 174 | 171 | 165 | 156 |
| 65° | 186 | 165 | 159 | 161 | 163 | 163 | 163 | 161 | 159 | 152 | 145 |
| 67.5° | 164 | 151 | 149 | 151 | 152 | 152 | 153 | 151 | 148 | 143 | 136 |
| 70° | 140 | 134 | 134 | 136 | 137 | 136 | 137 | 134 | 131 | 128 | 121 |
| 72.5° | 125 | 125 | 124 | 124 | 124 | 122 | 121 | 119 | 116 | 113 | 107 |
| 75° | 111 | 111 | 110 | 112 | 108 | 105 | 104 | 102 | 99 | 95 | 91 |
| 77.5° | 95 | 93 | 93 | 96 | 95 | 91 | 88 | 87 | 83 | 79 | 77 |
| 80° | 82 | 80 | 80 | 79 | 77 | 76 | 72 | 68 | 67 | 67 | 64 |
| 82.5° | 72 | 71 | 68 | 66 | 63 | 60 | 57 | 55 | 52 | 51 | 52 |
| 85° | 57 | 58 | 55 | 53 | 50 | 46 | 43 | 41 | 39 | 39 | 43 |
| 87.5° | 33 | 31 | 31 | 30 | 29 | 26 | 26 | 23 | 22 | 28 | 29 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CATALOG NUMBER: EMM-E03-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 |
| 2.5° | 1022 | 1022 | 1019 | 1021 | 1020 | 1021 | 1025 | 1021 | 1020 | 1023 | 1026 |
| 5° | 1022 | 1024 | 1021 | 1023 | 1023 | 1026 | 1031 | 1028 | 1030 | 1034 | 1038 |
| 7.5° | 1018 | 1021 | 1021 | 1025 | 1028 | 1033 | 1040 | 1038 | 1042 | 1048 | 1053 |
| 10° | 1007 | 1012 | 1017 | 1023 | 1030 | 1038 | 1048 | 1048 | 1052 | 1060 | 1065 |
| 12.5° | 980 | 993 | 999 | 1013 | 1024 | 1036 | 1047 | 1054 | 1057 | 1064 | 1070 |
| 15° | 926 | 942 | 954 | 971 | 989 | 1006 | 1025 | 1032 | 1038 | 1041 | 1044 |
| 17.5° | 864 | 875 | 883 | 905 | 925 | 941 | 959 | 968 | 975 | 975 | 977 |
| 20° | 813 | 818 | 820 | 820 | 832 | 847 | 870 | 867 | 873 | 867 | 873 |
| 22.5° | 734 | 726 | 730 | 730 | 738 | 735 | 744 | 759 | 757 | 761 | 778 |
| 25° | 638 | 639 | 632 | 632 | 633 | 635 | 639 | 643 | 657 | 672 | 683 |
| 27.5° | 547 | 545 | 540 | 536 | 532 | 539 | 544 | 543 | 563 | 575 | 595 |
| 30° | 447 | 447 | 448 | 446 | 450 | 445 | 453 | 455 | 472 | 485 | 503 |
| 32.5° | 364 | 366 | 366 | 365 | 372 | 367 | 371 | 376 | 387 | 398 | 407 |
| 35° | 289 | 292 | 300 | 303 | 306 | 302 | 307 | 313 | 314 | 324 | 331 |
| 37.5° | 245 | 250 | 251 | 253 | 253 | 256 | 257 | 261 | 261 | 264 | 266 |
| 40° | 226 | 224 | 223 | 222 | 220 | 221 | 222 | 225 | 226 | 228 | 228 |
| 42.5° | 217 | 214 | 209 | 206 | 202 | 202 | 202 | 202 | 205 | 207 | 207 |
| 45° | 209 | 204 | 199 | 194 | 191 | 189 | 190 | 191 | 193 | 194 | 195 |
| 47.5° | 204 | 197 | 189 | 184 | 181 | 179 | 180 | 181 | 181 | 182 | 183 |
| 50° | 190 | 183 | 176 | 171 | 168 | 167 | 167 | 166 | 167 | 168 | 168 |
| 52.5° | 179 | 172 | 166 | 161 | 158 | 158 | 157 | 155 | 156 | 155 | 156 |
| 55° | 173 | 164 | 157 | 152 | 149 | 149 | 147 | 148 | 148 | 146 | 147 |
| 57.5° | 166 | 157 | 151 | 145 | 141 | 141 | 140 | 141 | 142 | 139 | 139 |
| 60° | 159 | 151 | 144 | 139 | 134 | 135 | 134 | 136 | 136 | 133 | 133 |
| 62.5° | 146 | 139 | 135 | 132 | 128 | 129 | 129 | 132 | 129 | 127 | 126 |
| 65° | 136 | 131 | 125 | 125 | 121 | 123 | 123 | 123 | 120 | 119 | 120 |
| 67.5° | 129 | 123 | 119 | 115 | 112 | 113 | 111 | 111 | 110 | 109 | 111 |
| 70° | 116 | 111 | 109 | 105 | 103 | 100 | 99 | 99 | 99 | 98 | 99 |
| 72.5° | 103 | 99 | 97 | 93 | 91 | 89 | 88 | 87 | 86 | 87 | 87 |
| 75° | 87 | 85 | 83 | 81 | 79 | 78 | 77 | 77 | 76 | 75 | 76 |
| 77.5° | 75 | 72 | 71 | 69 | 70 | 67 | 66 | 67 | 67 | 67 | 68 |
| 80° | 64 | 62 | 62 | 60 | 59 | 57 | 58 | 58 | 58 | 58 | 59 |
| 82.5° | 56 | 54 | 54 | 53 | 50 | 48 | 49 | 51 | 51 | 50 | 52 |
| 85° | 46 | 44 | 44 | 43 | 39 | 38 | 37 | 39 | 40 | 38 | 40 |
| 87.5° | 30 | 28 | 27 | 27 | 23 | 16 | 21 | 23 | 23 | 19 | 22 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CATALOG NUMBER: EMM-E03-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 |
| 2.5° | 1025 | 1027 | 1027 | 1029 | 1033 | 1029 | 1027 | 1030 | 1030 | 1029 | 1029 |
| 5° | 1038 | 1042 | 1043 | 1049 | 1052 | 1050 | 1052 | 1054 | 1055 | 1053 | 1055 |
| 7.5° | 1055 | 1060 | 1065 | 1072 | 1078 | 1077 | 1080 | 1084 | 1085 | 1085 | 1087 |
| 10° | 1069 | 1076 | 1081 | 1090 | 1097 | 1099 | 1102 | 1107 | 1112 | 1112 | 1116 |
| 12.5° | 1072 | 1080 | 1085 | 1093 | 1105 | 1109 | 1116 | 1128 | 1133 | 1137 | 1140 |
| 15° | 1046 | 1053 | 1060 | 1071 | 1085 | 1097 | 1113 | 1130 | 1145 | 1156 | 1160 |
| 17.5° | 978 | 979 | 986 | 1002 | 1031 | 1044 | 1064 | 1099 | 1120 | 1140 | 1159 |
| 20° | 878 | 897 | 904 | 925 | 953 | 973 | 996 | 1028 | 1060 | 1096 | 1128 |
| 22.5° | 790 | 815 | 835 | 860 | 883 | 906 | 935 | 963 | 998 | 1033 | 1071 |
| 25° | 700 | 723 | 751 | 778 | 805 | 834 | 870 | 900 | 935 | 976 | 1024 |
| 27.5° | 613 | 637 | 668 | 700 | 722 | 761 | 791 | 835 | 875 | 920 | 974 |
| 30° | 522 | 545 | 560 | 595 | 626 | 665 | 711 | 754 | 802 | 852 | 915 |
| 32.5° | 423 | 437 | 458 | 482 | 518 | 559 | 607 | 653 | 719 | 781 | 841 |
| 35° | 339 | 346 | 345 | 372 | 388 | 437 | 497 | 541 | 607 | 683 | 762 |
| 37.5° | 267 | 266 | 272 | 276 | 296 | 328 | 375 | 432 | 508 | 590 | 669 |
| 40° | 228 | 229 | 230 | 230 | 234 | 255 | 297 | 356 | 429 | 502 | 589 |
| 42.5° | 210 | 212 | 213 | 215 | 217 | 224 | 254 | 309 | 371 | 449 | 527 |
| 45° | 197 | 200 | 203 | 203 | 205 | 207 | 224 | 266 | 328 | 402 | 484 |
| 47.5° | 186 | 189 | 191 | 192 | 194 | 196 | 205 | 234 | 294 | 361 | 446 |
| 50° | 170 | 173 | 175 | 178 | 178 | 178 | 184 | 205 | 251 | 317 | 400 |
| 52.5° | 157 | 159 | 162 | 164 | 165 | 166 | 169 | 181 | 216 | 278 | 356 |
| 55° | 150 | 152 | 155 | 157 | 159 | 160 | 162 | 167 | 192 | 245 | 318 |
| 57.5° | 141 | 144 | 148 | 150 | 152 | 153 | 154 | 156 | 173 | 213 | 273 |
| 60° | 135 | 140 | 145 | 148 | 149 | 150 | 151 | 149 | 156 | 181 | 228 |
| 62.5° | 128 | 133 | 137 | 141 | 142 | 143 | 144 | 141 | 140 | 152 | 178 |
| 65° | 122 | 125 | 128 | 131 | 131 | 132 | 131 | 127 | 124 | 124 | 136 |
| 67.5° | 114 | 116 | 119 | 120 | 120 | 120 | 119 | 118 | 113 | 111 | 113 |
| 70° | 102 | 105 | 108 | 110 | 110 | 109 | 108 | 105 | 103 | 101 | 103 |
| 72.5° | 91 | 95 | 96 | 97 | 96 | 96 | 96 | 94 | 95 | 95 | 96 |
| 75° | 80 | 82 | 82 | 84 | 84 | 84 | 84 | 84 | 86 | 85 | 86 |
| 77.5° | 68 | 69 | 71 | 71 | 71 | 72 | 74 | 74 | 76 | 77 | 77 |
| 80° | 59 | 57 | 57 | 56 | 57 | 59 | 61 | 65 | 65 | 66 | 67 |
| 82.5° | 47 | 43 | 41 | 43 | 43 | 44 | 48 | 52 | 52 | 55 | 56 |
| 85° | 36 | 31 | 27 | 29 | 29 | 31 | 35 | 37 | 40 | 41 | 40 |
| 87.5° | 21 | 18 | 12 | 10 | 12 | 15 | 16 | 18 | 15 | 17 | 18 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CATALOG NUMBER: EMM-E03-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 |
| 2.5° | 1031 | 1031 | 1026 | 1026 | 1027 | 1029 | 1024 | 1023 | 1024 | 1023 | 1022 |
| 5° | 1058 | 1055 | 1054 | 1052 | 1051 | 1053 | 1048 | 1048 | 1047 | 1045 | 1042 |
| 7.5° | 1088 | 1086 | 1084 | 1082 | 1080 | 1081 | 1076 | 1075 | 1074 | 1073 | 1070 |
| 10° | 1116 | 1113 | 1111 | 1106 | 1102 | 1098 | 1088 | 1085 | 1082 | 1080 | 1079 |
| 12.5° | 1139 | 1136 | 1129 | 1120 | 1114 | 1104 | 1096 | 1089 | 1086 | 1083 | 1084 |
| 15° | 1161 | 1155 | 1146 | 1135 | 1129 | 1119 | 1113 | 1110 | 1108 | 1106 | 1108 |
| 17.5° | 1168 | 1170 | 1165 | 1162 | 1158 | 1154 | 1155 | 1158 | 1164 | 1164 | 1164 |
| 20° | 1155 | 1177 | 1191 | 1202 | 1211 | 1217 | 1218 | 1221 | 1228 | 1231 | 1246 |
| 22.5° | 1124 | 1181 | 1228 | 1266 | 1290 | 1298 | 1307 | 1317 | 1318 | 1321 | 1335 |
| 25° | 1095 | 1178 | 1248 | 1308 | 1364 | 1403 | 1425 | 1445 | 1450 | 1454 | 1454 |
| 27.5° | 1044 | 1136 | 1226 | 1306 | 1383 | 1448 | 1499 | 1551 | 1587 | 1600 | 1619 |
| 30° | 990 | 1087 | 1180 | 1281 | 1379 | 1470 | 1562 | 1646 | 1705 | 1749 | 1784 |
| 32.5° | 922 | 1027 | 1133 | 1243 | 1360 | 1474 | 1597 | 1719 | 1831 | 1919 | 1973 |
| 35° | 851 | 961 | 1071 | 1192 | 1324 | 1462 | 1619 | 1781 | 1931 | 2074 | 2197 |
| 37.5° | 773 | 877 | 997 | 1135 | 1277 | 1442 | 1625 | 1826 | 2034 | 2239 | 2398 |
| 40° | 684 | 785 | 901 | 1046 | 1218 | 1404 | 1622 | 1861 | 2122 | 2377 | 2633 |
| 42.5° | 623 | 716 | 827 | 973 | 1148 | 1361 | 1610 | 1893 | 2202 | 2518 | 2840 |
| 45° | 577 | 668 | 777 | 917 | 1095 | 1319 | 1606 | 1929 | 2286 | 2648 | 3024 |
| 47.5° | 537 | 631 | 736 | 874 | 1046 | 1281 | 1597 | 1959 | 2356 | 2748 | 3184 |
| 50° | 498 | 594 | 702 | 841 | 1010 | 1240 | 1577 | 1986 | 2422 | 2852 | 3316 |
| 52.5° | 455 | 550 | 666 | 808 | 987 | 1214 | 1556 | 2008 | 2486 | 2963 | 3453 |
| 55° | 409 | 505 | 619 | 769 | 956 | 1194 | 1535 | 2022 | 2553 | 3063 | 3576 |
| 57.5° | 359 | 455 | 566 | 719 | 918 | 1167 | 1512 | 2021 | 2602 | 3157 | 3709 |
| 60° | 298 | 385 | 495 | 649 | 852 | 1129 | 1493 | 2013 | 2637 | 3240 | 3857 |
| 62.5° | 227 | 301 | 402 | 546 | 757 | 1056 | 1443 | 1979 | 2641 | 3300 | 3980 |
| 65° | 162 | 202 | 282 | 426 | 601 | 893 | 1322 | 1889 | 2575 | 3257 | 3991 |
| 67.5° | 124 | 146 | 185 | 271 | 426 | 680 | 1114 | 1687 | 2370 | 3028 | 3807 |
| 70° | 107 | 118 | 139 | 177 | 267 | 441 | 789 | 1333 | 1952 | 2605 | 3270 |
| 72.5° | 99 | 106 | 119 | 138 | 170 | 260 | 486 | 896 | 1434 | 1986 | 2568 |
| 75° | 91 | 98 | 108 | 120 | 136 | 174 | 265 | 527 | 885 | 1312 | 1726 |
| 77.5° | 81 | 87 | 100 | 111 | 121 | 136 | 169 | 293 | 487 | 785 | 1033 |
| 80° | 68 | 74 | 84 | 101 | 111 | 121 | 132 | 180 | 269 | 406 | 530 |
| 82.5° | 56 | 59 | 67 | 82 | 91 | 96 | 99 | 117 | 153 | 200 | 292 |
| 85° | 39 | 39 | 45 | 53 | 60 | 56 | 57 | 60 | 79 | 111 | 224 |
| 87.5° | 15 | 11 | 14 | 17 | 17 | 16 | 19 | 18 | 25 | 47 | 64 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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 CATALOG NUMBER: EMM-E03-LED-E1-SLR

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° | |
|-------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 0° | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 0° |
| 2.5° | 1022 | 1022 | 1021 | 1020 | 1019 | 1019 | 1017 | 1020 | 1019 | 1020 | 1021 | 2.5° |
| 5° | 1043 | 1041 | 1039 | 1037 | 1037 | 1035 | 1032 | 1031 | 1027 | 1026 | 1023 | 5° |
| 7.5° | 1073 | 1073 | 1073 | 1071 | 1067 | 1062 | 1056 | 1052 | 1041 | 1033 | 1024 | 7.5° |
| 10° | 1081 | 1083 | 1084 | 1085 | 1081 | 1080 | 1073 | 1065 | 1052 | 1040 | 1028 | 10° |
| 12.5° | 1084 | 1088 | 1089 | 1090 | 1087 | 1085 | 1078 | 1073 | 1062 | 1050 | 1044 | 12.5° |
| 15° | 1112 | 1119 | 1127 | 1126 | 1135 | 1125 | 1119 | 1120 | 1108 | 1095 | 1091 | 15° |
| 17.5° | 1184 | 1187 | 1204 | 1205 | 1219 | 1223 | 1213 | 1202 | 1195 | 1187 | 1170 | 17.5° |
| 20° | 1262 | 1284 | 1290 | 1320 | 1334 | 1341 | 1342 | 1342 | 1329 | 1294 | 1280 | 20° |
| 22.5° | 1347 | 1380 | 1416 | 1435 | 1464 | 1468 | 1483 | 1474 | 1464 | 1437 | 1405 | 22.5° |
| 25° | 1484 | 1503 | 1535 | 1583 | 1597 | 1626 | 1620 | 1633 | 1611 | 1564 | 1545 | 25° |
| 27.5° | 1637 | 1670 | 1715 | 1760 | 1780 | 1812 | 1792 | 1812 | 1776 | 1763 | 1717 | 27.5° |
| 30° | 1804 | 1849 | 1929 | 1985 | 2026 | 2048 | 2035 | 2024 | 2014 | 1990 | 1987 | 30° |
| 32.5° | 2009 | 2063 | 2139 | 2212 | 2284 | 2359 | 2377 | 2393 | 2430 | 2357 | 2286 | 32.5° |
| 35° | 2262 | 2303 | 2388 | 2472 | 2571 | 2665 | 2820 | 2859 | 2809 | 2722 | 2608 | 35° |
| 37.5° | 2509 | 2602 | 2687 | 2787 | 2861 | 2969 | 3038 | 3115 | 3073 | 2992 | 2861 | 37.5° |
| 40° | 2812 | 2938 | 3054 | 3177 | 3261 | 3345 | 3475 | 3559 | 3551 | 3450 | 3273 | 40° |
| 42.5° | 3090 | 3290 | 3482 | 3574 | 3686 | 3838 | 3934 | 4068 | 4077 | 3960 | 3735 | 42.5° |
| 45° | 3381 | 3614 | 3848 | 4029 | 4124 | 4312 | 4532 | 4678 | 4723 | 4500 | 4270 | 45° |
| 47.5° | 3609 | 3972 | 4286 | 4479 | 4656 | 4850 | 5133 | 5344 | 5326 | 5025 | 4721 | 47.5° |
| 50° | 3809 | 4271 | 4651 | 4969 | 5181 | 5405 | 5778 | 6030 | 5942 | 5559 | 5179 | 50° |
| 52.5° | 3990 | 4532 | 5002 | 5396 | 5643 | 5963 | 6434 | 6654 | 6404 | 6034 | 5564 | 52.5° |
| 55° | 4156 | 4768 | 5314 | 5788 | 6169 | 6582 | 7024 | 7175 | 6819 | 6362 | 5930 | 55° |
| 57.5° | 4309 | 4987 | 5601 | 6170 | 6681 | 7174 | 7559 | 7569 | 7122 | 6615 | 6203 | 57.5° |
| 60° | 4493 | 5188 | 5901 | 6566 | 7189 | 7701 | 7926 | 7855 | 7317 | 6804 | 6391 | 60° |
| 62.5° | 4671 | 5369 | 6146 | 6947 | 7698 | 8145 | 8190 | 8040 | 7451 | 6892 | 6532 | 62.5° |
| 65° | 4759 | 5507 | 6283 | 7189 | 8096 | 8410 | 8355 | 8120 | 7505 | 6905 | 6568 | 65° |
| 67.5° | 4630 | 5378 | 6152 | 7084 | 8094 | 8393 | 8251 | 7967 | 7374 | 6728 | 6401 | 67.5° |
| 70° | 4155 | 4880 | 5511 | 6388 | 7524 | 7819 | 7606 | 7325 | 6829 | 6197 | 6048 | 70° |
| 72.5° | 3496 | 4034 | 4562 | 5210 | 5989 | 6247 | 5966 | 6106 | 5978 | 5366 | 5230 | 72.5° |
| 75° | 2624 | 3127 | 3333 | 3532 | 4070 | 4224 | 4116 | 4596 | 4727 | 4472 | 4125 | 75° |
| 77.5° | 1717 | 2245 | 2283 | 2287 | 2507 | 2802 | 3193 | 3692 | 3940 | 3825 | 3404 | 77.5° |
| 80° | 1001 | 1582 | 1415 | 1361 | 1556 | 1885 | 2401 | 3026 | 3354 | 3378 | 2976 | 80° |
| 82.5° | 503 | 992 | 859 | 850 | 960 | 1203 | 1580 | 1929 | 2356 | 2376 | 2429 | 82.5° |
| 85° | 391 | 682 | 698 | 757 | 834 | 935 | 963 | 1025 | 1263 | 1483 | 1540 | 85° |
| 87.5° | 203 | 502 | 592 | 689 | 680 | 557 | 470 | 507 | 590 | 622 | 808 | 87.5° |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90° |



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DISTRIBUTION (continued):

| 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|------|------|------|------|------|------|------|
| 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 |
| 1019 | 1021 | 1020 | 1021 | 1022 | 1022 | 1021 |
| 1018 | 1017 | 1013 | 1011 | 1011 | 1009 | 1008 |
| 1012 | 1005 | 995 | 989 | 985 | 982 | 977 |
| 1013 | 1001 | 988 | 979 | 970 | 964 | 958 |
| 1026 | 1011 | 999 | 985 | 978 | 970 | 963 |
| 1071 | 1051 | 1037 | 1024 | 1016 | 1010 | 1004 |
| 1143 | 1119 | 1096 | 1084 | 1070 | 1060 | 1059 |
| 1240 | 1205 | 1175 | 1148 | 1135 | 1119 | 1116 |
| 1350 | 1299 | 1267 | 1237 | 1219 | 1200 | 1201 |
| 1490 | 1439 | 1387 | 1356 | 1330 | 1333 | 1330 |
| 1658 | 1618 | 1558 | 1520 | 1512 | 1481 | 1458 |
| 1920 | 1860 | 1787 | 1719 | 1676 | 1625 | 1577 |
| 2177 | 2066 | 1969 | 1903 | 1848 | 1773 | 1698 |
| 2431 | 2303 | 2213 | 2157 | 2072 | 1967 | 1850 |
| 2733 | 2649 | 2585 | 2448 | 2327 | 2166 | 1989 |
| 3169 | 3063 | 2910 | 2736 | 2561 | 2333 | 2091 |
| 3603 | 3475 | 3261 | 3005 | 2754 | 2479 | 2171 |
| 4074 | 3827 | 3548 | 3238 | 2929 | 2588 | 2226 |
| 4445 | 4137 | 3789 | 3417 | 3068 | 2678 | 2274 |
| 4824 | 4452 | 4015 | 3596 | 3194 | 2751 | 2322 |
| 5122 | 4707 | 4246 | 3759 | 3311 | 2833 | 2388 |
| 5420 | 4961 | 4453 | 3922 | 3456 | 2947 | 2487 |
| 5668 | 5191 | 4653 | 4100 | 3624 | 3099 | 2649 |
| 5995 | 5514 | 4888 | 4311 | 3814 | 3306 | 2854 |
| 6306 | 5893 | 5215 | 4559 | 4046 | 3540 | 3087 |
| 6511 | 6321 | 5550 | 4808 | 4264 | 3759 | 3292 |
| 6515 | 6593 | 5903 | 5010 | 4468 | 3997 | 3460 |
| 6358 | 6631 | 5978 | 5028 | 4565 | 4103 | 3548 |
| 5815 | 6163 | 5529 | 4673 | 4385 | 4020 | 3451 |
| 4498 | 4750 | 4422 | 3961 | 3971 | 3758 | 3071 |
| 3114 | 3352 | 3076 | 2978 | 3197 | 3078 | 2293 |
| 2359 | 2052 | 1944 | 1996 | 2269 | 2256 | 1442 |
| 2101 | 1553 | 1288 | 1352 | 1602 | 1463 | 803 |
| 1723 | 1549 | 1295 | 1171 | 1221 | 999 | 549 |
| 992 | 1133 | 923 | 870 | 757 | 450 | 223 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)