

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: P198070

Luminaire Tested: **TT-C3-LED-E1-RW-PM-CG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34695)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-LED-E1-RW-PM-CG
Description: TOPTIER LED AREA/SITE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4889.7 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 45
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

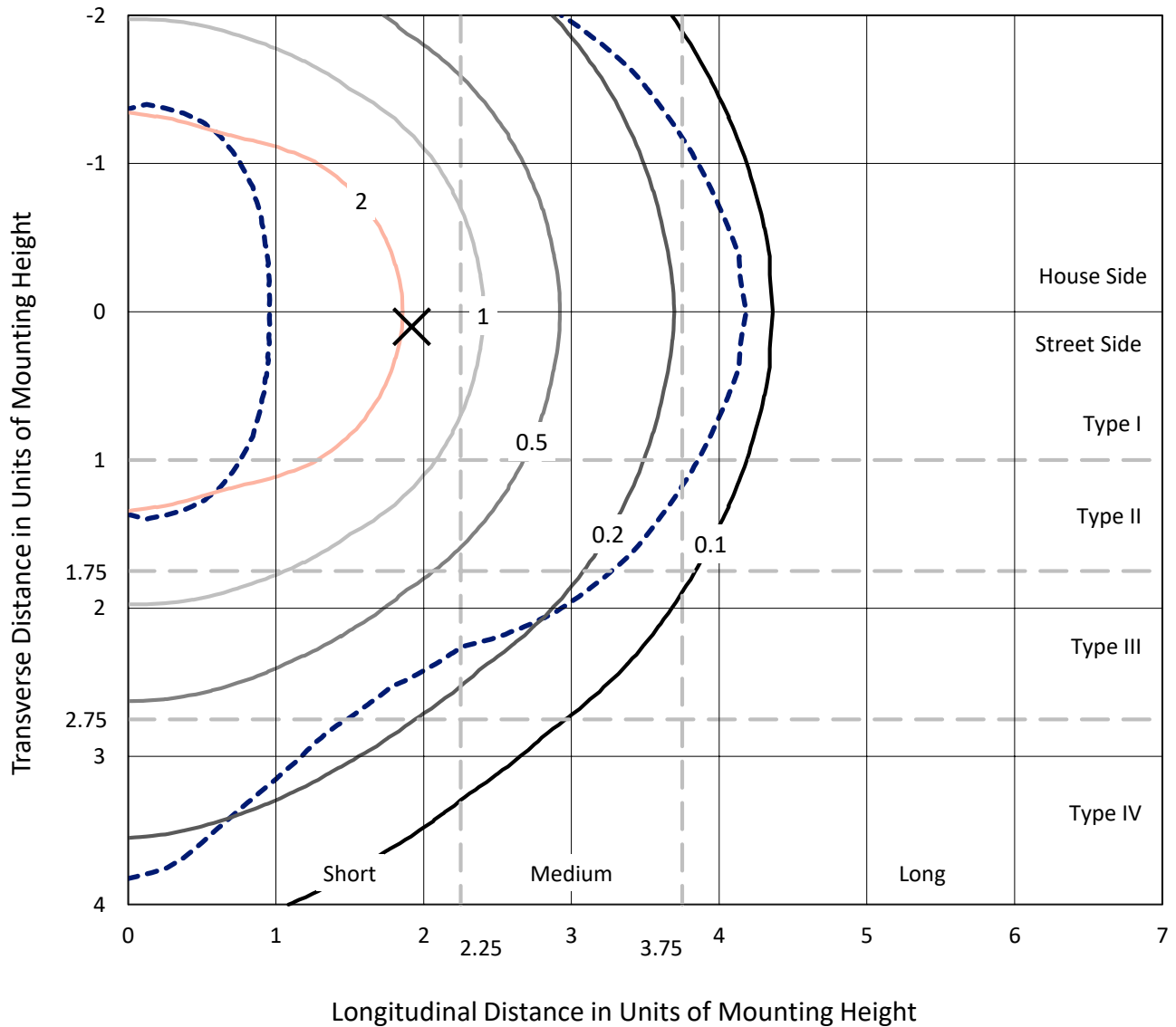


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

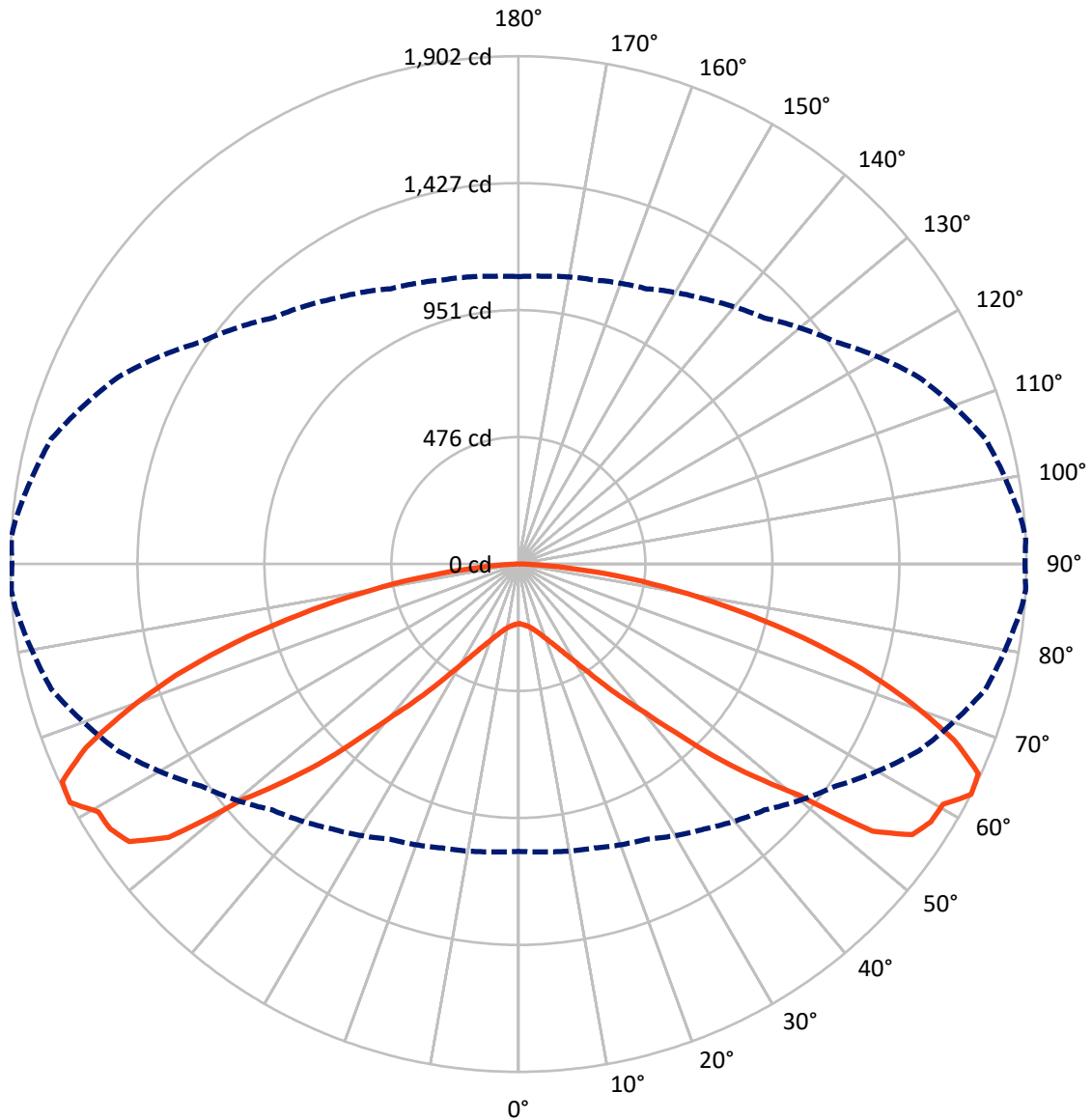


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 87-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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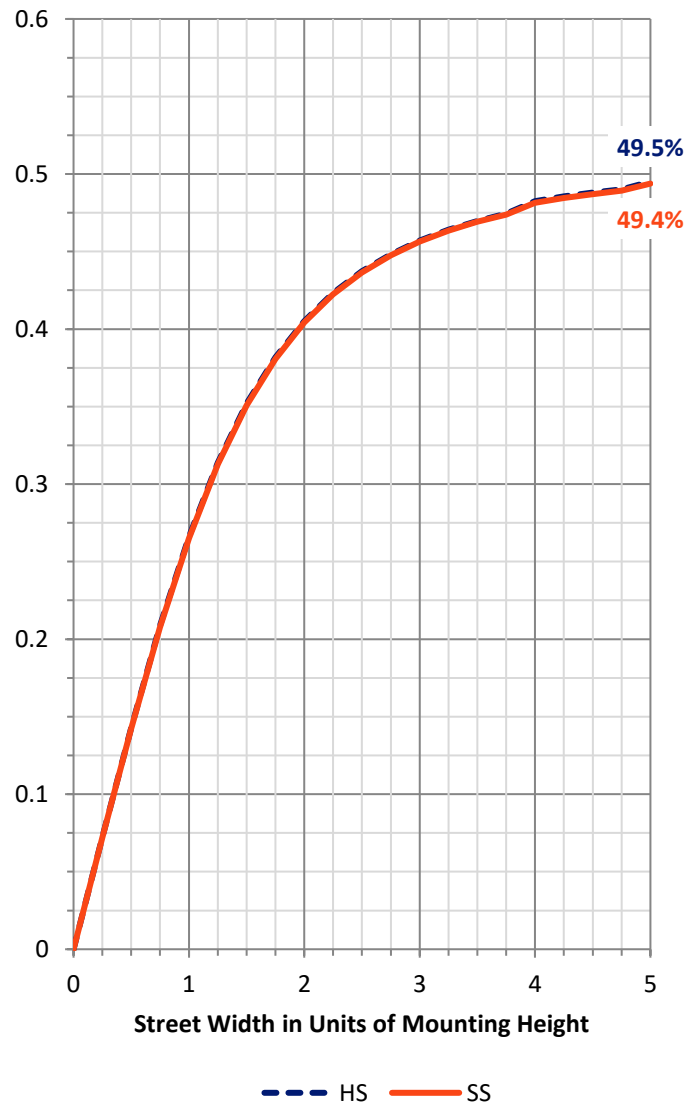
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2444.8 | 0.0 | 2444.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2444.8 | 0.0 | 2444.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4889.7 | 0.0 | 4889.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 22.3 | 0.5 |
| 10°-20° | 77.2 | 1.6 |
| 20°-30° | 170.4 | 3.5 |
| 30°-40° | 343.2 | 7.0 |
| 40°-50° | 654.6 | 13.4 |
| 50°-60° | 1120.9 | 22.9 |
| 60°-70° | 1357.9 | 27.8 |
| 70°-80° | 940.8 | 19.2 |
| 80°-90° | 202.2 | 4.1 |
| 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° | 4889.7 | 100.0 |
| 0°-180° | 4889.7 | 100.0 |



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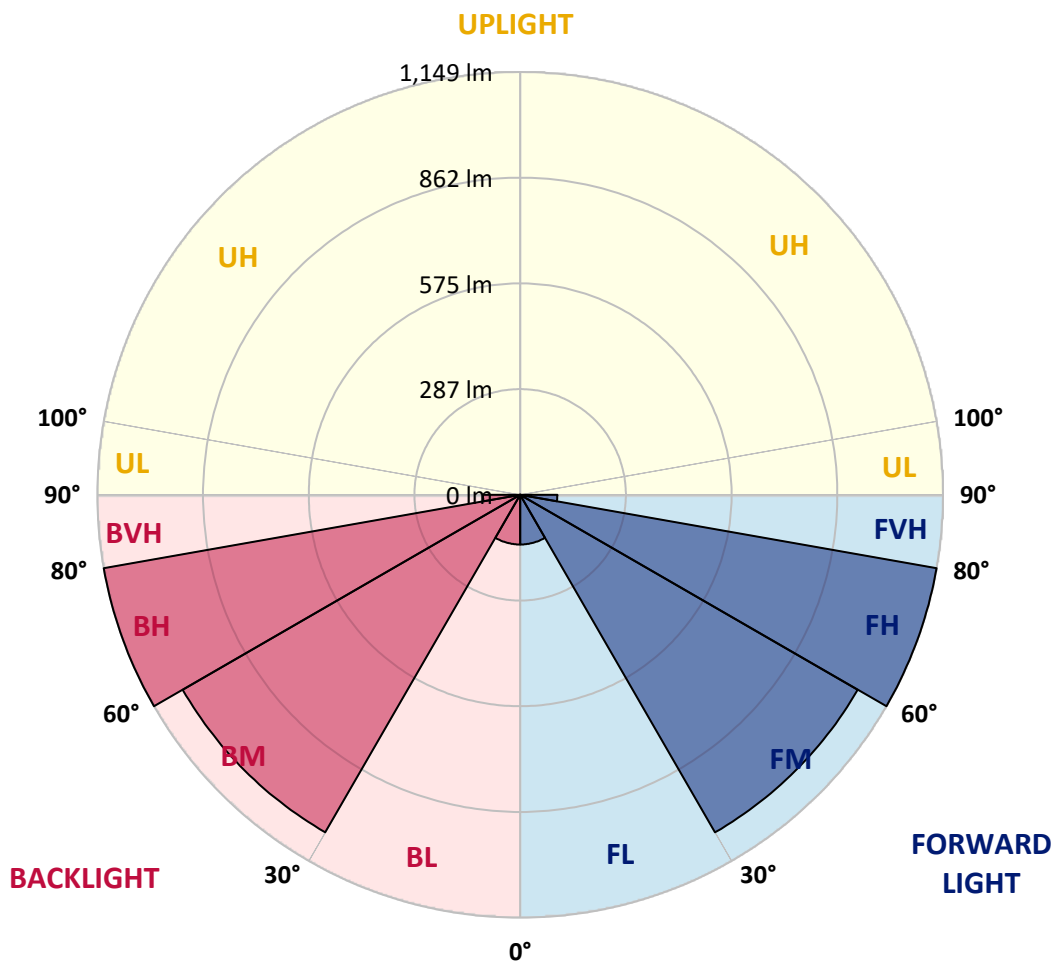
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 135.0 | 2.8 | | | |
| FM (30°-60°) | 1059.4 | 21.7 | | | |
| FH (60°-80°) | 1149.4 | 23.5 | | | G1/1800 |
| FVH (80°-90°) | 101.1 | 2.1 | | | G2/225 |
| BL (0°-30°) | 135.0 | 2.8 | B1/500 | | |
| BM (30°-60°) | 1059.4 | 21.7 | B2/2500 | | |
| BH (60°-80°) | 1149.4 | 23.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 101.1 | 2.1 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 87° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 |
| 2.5° | 225 | 225 | 226 | 226 | 226 | 226 | 226 | 226 | 226 | 226 | 226 |
| 5° | 229 | 229 | 229 | 230 | 230 | 230 | 230 | 230 | 229 | 229 | 229 |
| 7.5° | 235 | 235 | 235 | 236 | 236 | 236 | 235 | 235 | 234 | 234 | 234 |
| 10° | 243 | 243 | 244 | 244 | 243 | 243 | 242 | 241 | 242 | 241 | 241 |
| 12.5° | 254 | 256 | 255 | 255 | 253 | 253 | 252 | 252 | 252 | 251 | 251 |
| 15° | 270 | 270 | 271 | 269 | 269 | 266 | 265 | 264 | 265 | 265 | 264 |
| 17.5° | 289 | 289 | 289 | 286 | 284 | 282 | 281 | 280 | 279 | 280 | 280 |
| 20° | 318 | 316 | 312 | 310 | 305 | 303 | 301 | 300 | 299 | 299 | 299 |
| 22.5° | 348 | 346 | 341 | 337 | 333 | 328 | 326 | 322 | 321 | 323 | 322 |
| 25° | 377 | 380 | 374 | 369 | 366 | 358 | 353 | 352 | 350 | 349 | 350 |
| 27.5° | 413 | 415 | 410 | 403 | 397 | 391 | 386 | 384 | 385 | 385 | 386 |
| 30° | 453 | 457 | 449 | 445 | 436 | 428 | 424 | 426 | 428 | 431 | 430 |
| 32.5° | 499 | 499 | 495 | 488 | 478 | 471 | 469 | 472 | 481 | 485 | 484 |
| 35° | 553 | 549 | 545 | 536 | 523 | 519 | 523 | 533 | 546 | 553 | 557 |
| 37.5° | 609 | 601 | 595 | 585 | 579 | 577 | 586 | 605 | 619 | 632 | 638 |
| 40° | 657 | 657 | 649 | 638 | 632 | 641 | 655 | 682 | 709 | 723 | 733 |
| 42.5° | 705 | 711 | 702 | 693 | 693 | 705 | 732 | 774 | 825 | 855 | 860 |
| 45° | 755 | 766 | 754 | 748 | 754 | 778 | 829 | 910 | 986 | 1035 | 1027 |
| 47.5° | 807 | 817 | 806 | 803 | 817 | 860 | 938 | 1042 | 1118 | 1169 | 1189 |
| 50° | 871 | 864 | 860 | 859 | 888 | 952 | 1053 | 1165 | 1287 | 1333 | 1358 |
| 52.5° | 925 | 913 | 911 | 918 | 966 | 1043 | 1169 | 1375 | 1544 | 1658 | 1662 |
| 55° | 972 | 959 | 966 | 983 | 1048 | 1155 | 1314 | 1555 | 1698 | 1783 | 1790 |
| 57.5° | 1012 | 1005 | 1017 | 1040 | 1124 | 1252 | 1430 | 1629 | 1747 | 1815 | 1822 |
| 60° | 1048 | 1047 | 1060 | 1099 | 1193 | 1309 | 1456 | 1634 | 1757 | 1818 | 1827 |
| 62.5° | 1076 | 1082 | 1101 | 1137 | 1212 | 1303 | 1450 | 1655 | 1811 | 1891 | 1902 |
| 65° | 1100 | 1106 | 1125 | 1137 | 1204 | 1291 | 1483 | 1669 | 1803 | 1886 | 1893 |
| 67.5° | 1113 | 1120 | 1117 | 1119 | 1171 | 1239 | 1405 | 1565 | 1675 | 1751 | 1760 |
| 70° | 1111 | 1105 | 1081 | 1056 | 1067 | 1115 | 1265 | 1399 | 1499 | 1559 | 1562 |
| 72.5° | 1069 | 1059 | 1002 | 944 | 927 | 959 | 1090 | 1191 | 1276 | 1331 | 1348 |
| 75° | 974 | 954 | 871 | 796 | 758 | 782 | 883 | 971 | 1034 | 1088 | 1099 |
| 77.5° | 801 | 789 | 706 | 624 | 582 | 598 | 678 | 730 | 798 | 854 | 840 |
| 80° | 583 | 581 | 514 | 441 | 411 | 418 | 461 | 512 | 555 | 597 | 599 |
| 82.5° | 381 | 375 | 330 | 277 | 246 | 250 | 277 | 304 | 345 | 372 | 380 |
| 85° | 189 | 186 | 166 | 133 | 116 | 116 | 129 | 145 | 165 | 177 | 176 |
| 87.5° | 52 | 47 | 46 | 34 | 28 | 30 | 30 | 33 | 42 | 45 | 48 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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CANDELA DISTRIBUTION (continued):

| | 90° |
|-------|------|
| 0° | 223 |
| 2.5° | 226 |
| 5° | 229 |
| 7.5° | 234 |
| 10° | 242 |
| 12.5° | 251 |
| 15° | 264 |
| 17.5° | 279 |
| 20° | 299 |
| 22.5° | 324 |
| 25° | 350 |
| 27.5° | 385 |
| 30° | 431 |
| 32.5° | 485 |
| 35° | 555 |
| 37.5° | 633 |
| 40° | 729 |
| 42.5° | 855 |
| 45° | 1036 |
| 47.5° | 1179 |
| 50° | 1345 |
| 52.5° | 1668 |
| 55° | 1792 |
| 57.5° | 1824 |
| 60° | 1828 |
| 62.5° | 1897 |
| 65° | 1901 |
| 67.5° | 1753 |
| 70° | 1567 |
| 72.5° | 1346 |
| 75° | 1107 |
| 77.5° | 855 |
| 80° | 598 |
| 82.5° | 374 |
| 85° | 175 |
| 87.5° | 44 |
| 90° | 0 |

(END OF REPORT)