

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: LUMIERE

Report Number: P394780

Luminaire Tested: **303-B2-LEDB4-3500-UNV-T5X-DIM10**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (Compare Roadway Adding Tool)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-B2-LEDB4-3500-UNV-T5X-DIM10
Description: LUMIERE EON LED LUMINAIRE
BOLLARD, DUAL HEAD, FOUR LIGHTBAR, TYPE 5
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2506.3 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 0.38' x L: 1.06' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 30.6
Input Voltage (V): 120
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: 28.75 FT

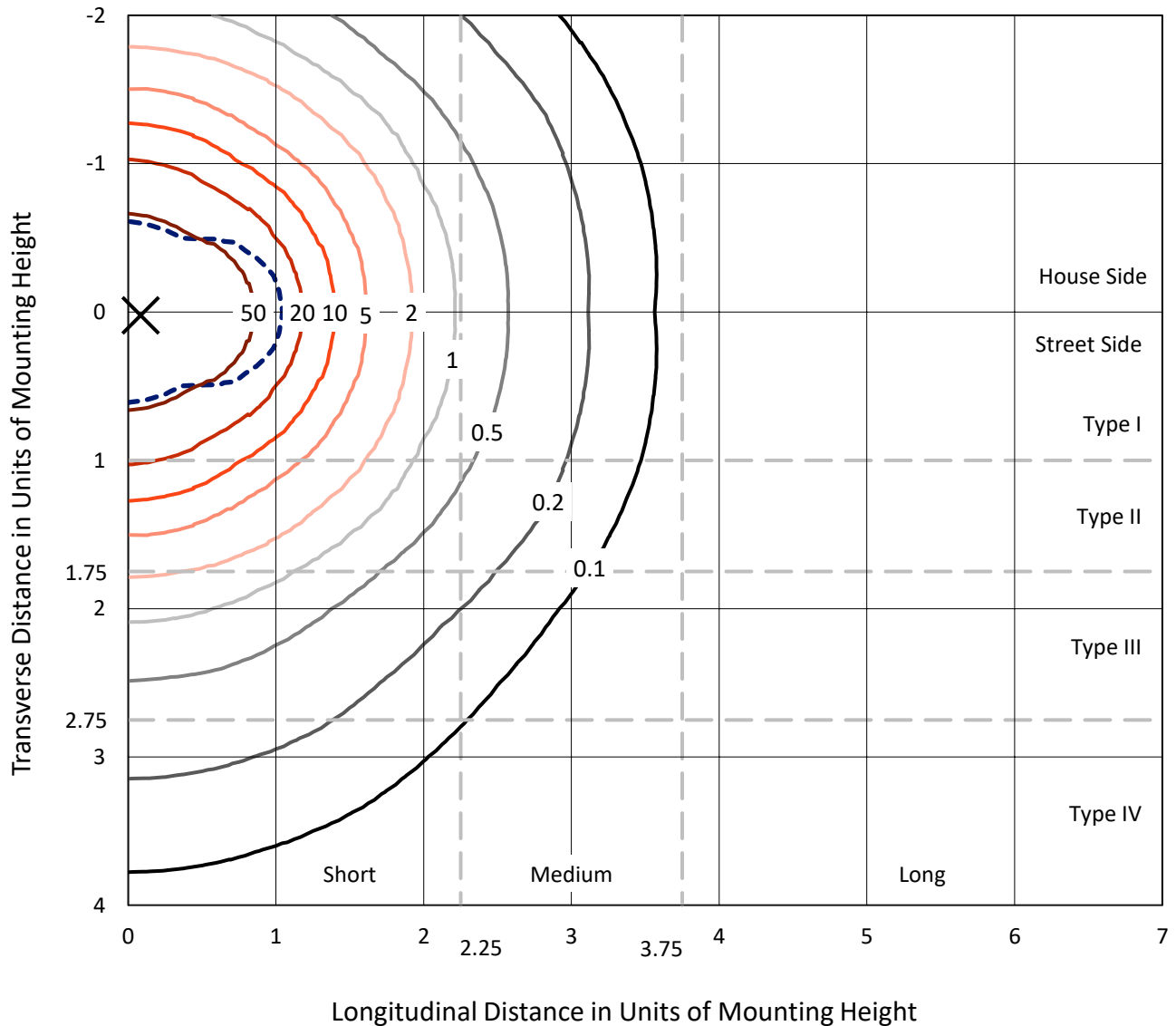


REPORT NUMBER: P394780

CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T5X-DIM10

Iso-Footcandle Lines of Horizontal Illumination

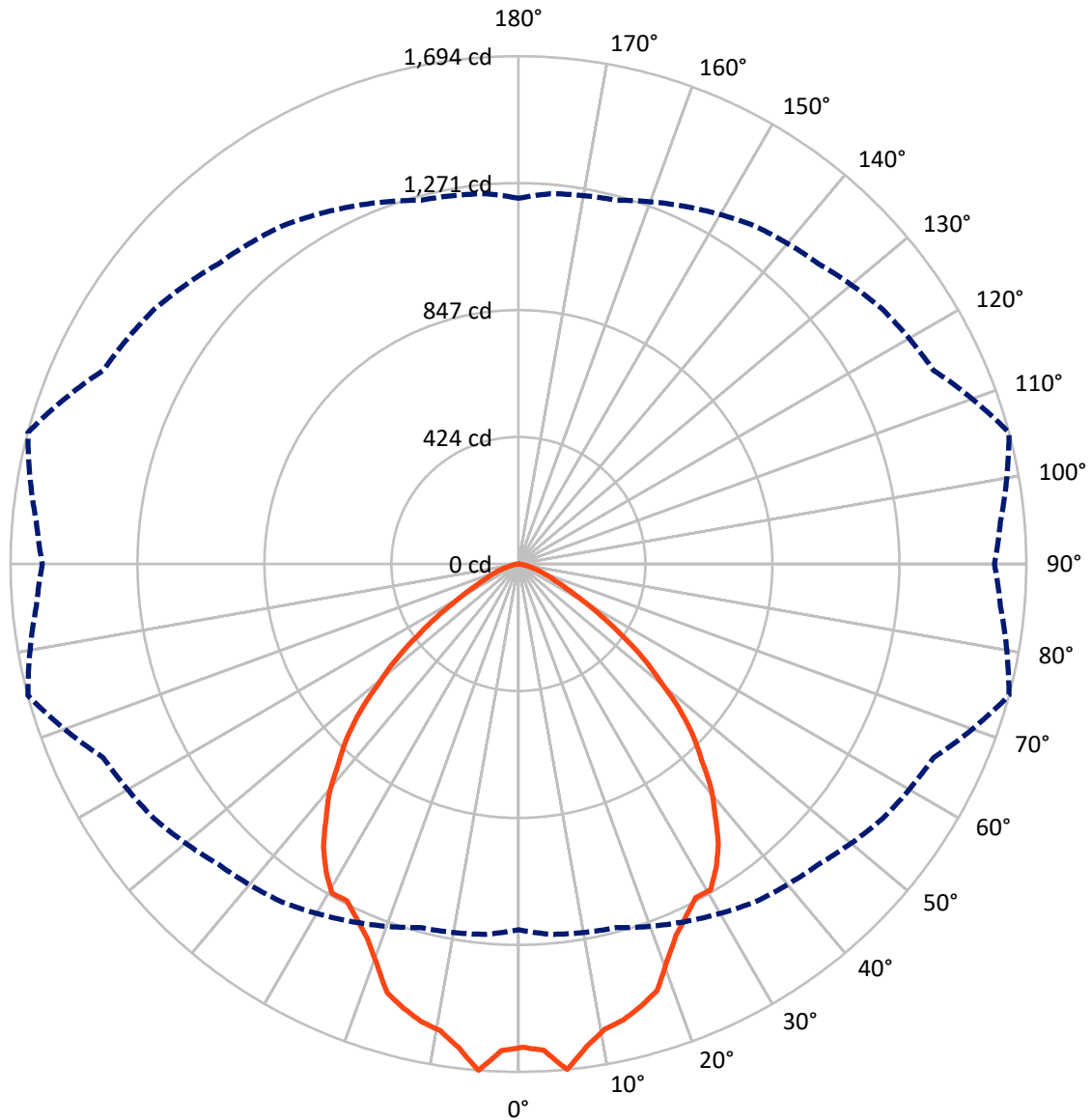
× Max cd
 - - - 1/2 Max cd



Based on 3 foot mounting height. Maximum calculated value = 179.1 fc
 Type I - Short - N/A

REPORT NUMBER: P394780
CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T5X-DIM10

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

REPORT NUMBER: P394780

CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T5X-DIM10

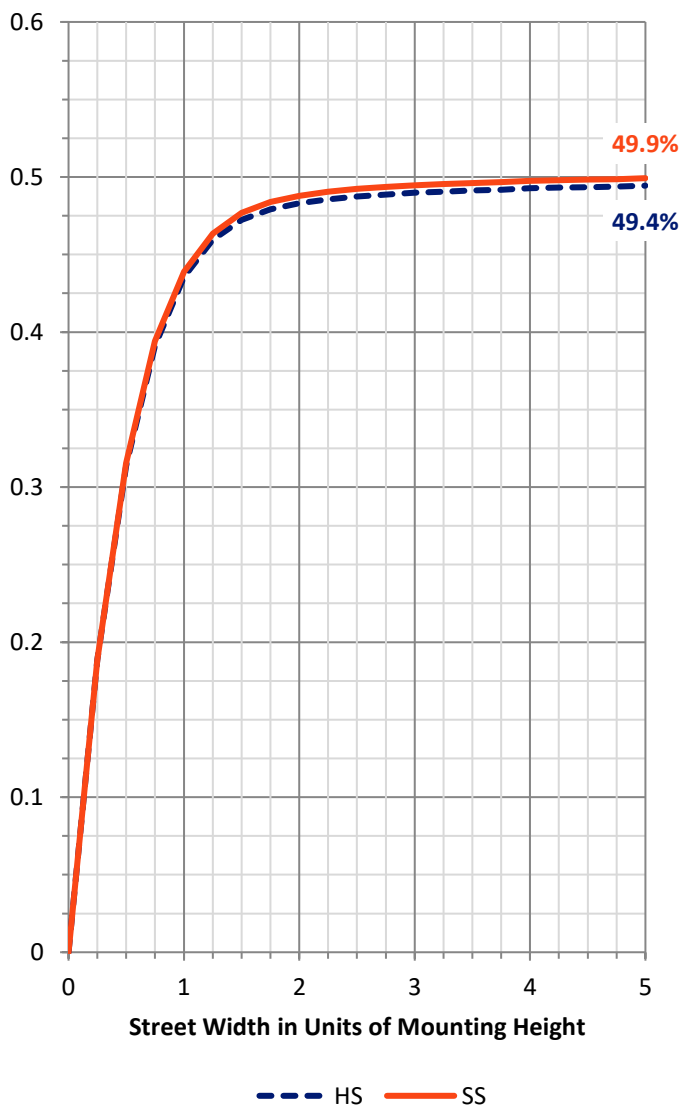
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1253.1 | 0.0 | 1253.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1253.1 | 0.0 | 1253.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 2506.3 | 0.0 | 2506.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 131.2 | 5.2 |
| 10°-20° | 339.3 | 13.5 |
| 20°-30° | 493.0 | 19.7 |
| 30°-40° | 556.1 | 22.2 |
| 40°-50° | 489.5 | 19.5 |
| 50°-60° | 304.3 | 12.1 |
| 60°-70° | 123.0 | 4.9 |
| 70°-80° | 50.4 | 2.0 |
| 80°-90° | 19.5 | 0.8 |
| 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° | 2506.3 | 100.0 |
| 0°-180° | 2506.3 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P394780

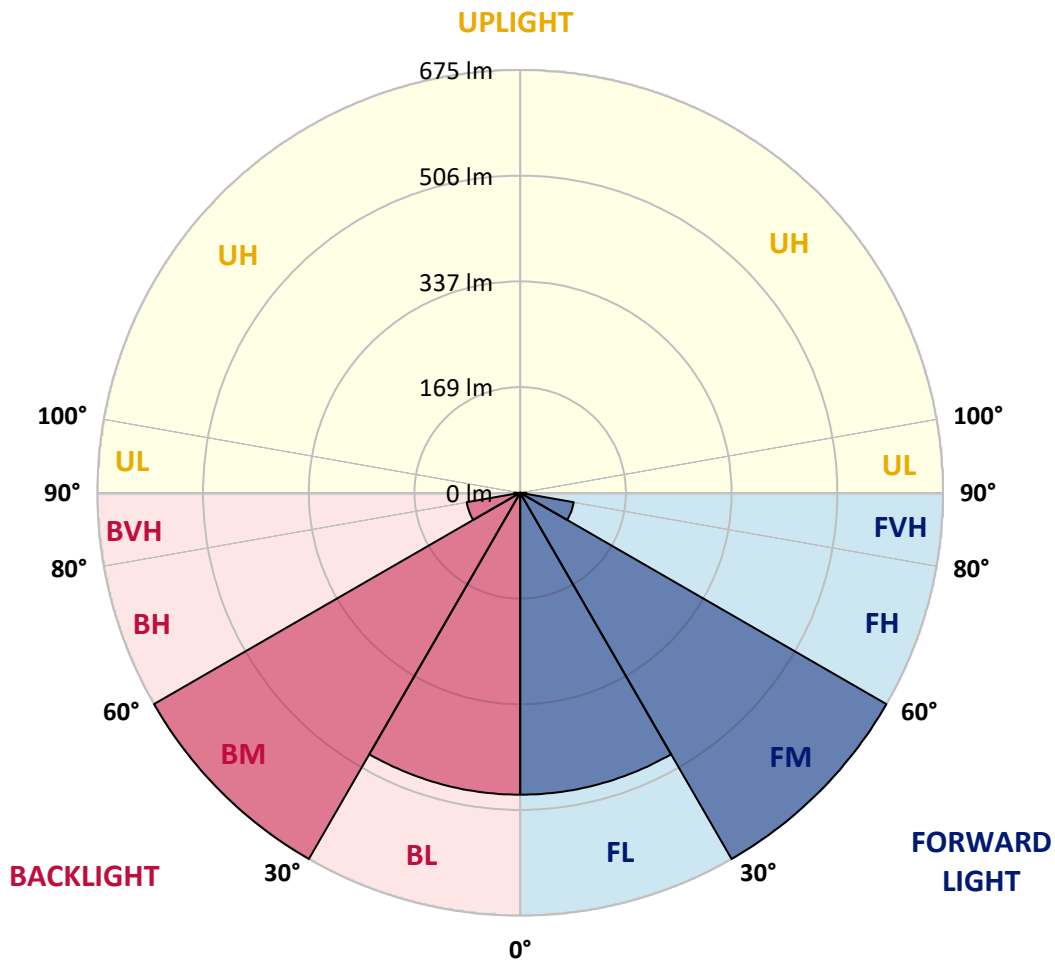
CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T5X-DIM10

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 481.8 | 19.2 | | | |
| FM | (30°-60°) | 674.9 | 26.9 | | | |
| FH | (60°-80°) | 86.7 | 3.5 | | | G0/660 |
| FVH | (80°-90°) | 9.7 | 0.4 | | | G0/10 |
| BL | (0°-30°) | 481.8 | 19.2 | B1/500 | | |
| BM | (30°-60°) | 674.9 | 26.9 | B1/1000 | | |
| BH | (60°-80°) | 86.7 | 3.5 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 9.7 | 0.4 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0

Type I Short





REPORT NUMBER: P394780

CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T5X-DIM10

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 1612 | 1612 | 1612 | 1612 | 1612 | 1612 | 1612 | 1612 | 1612 | 1612 | 1612 |
| 2.5° | 1572 | 1552 | 1541 | 1530 | 1532 | 1534 | 1523 | 1512 | 1517 | 1522 | 1584 |
| 5° | 1220 | 1240 | 1248 | 1256 | 1286 | 1316 | 1346 | 1376 | 1396 | 1416 | 1449 |
| 7.5° | 1066 | 1048 | 1055 | 1062 | 1063 | 1064 | 1068 | 1072 | 1148 | 1224 | 1344 |
| 10° | 1178 | 1166 | 1176 | 1186 | 1175 | 1164 | 1130 | 1096 | 1094 | 1092 | 1170 |
| 12.5° | 1034 | 1026 | 1040 | 1054 | 1084 | 1114 | 1117 | 1120 | 1154 | 1188 | 1213 |
| 15° | 988 | 984 | 986 | 988 | 980 | 972 | 995 | 1018 | 1093 | 1168 | 1231 |
| 17.5° | 976 | 976 | 966 | 956 | 952 | 948 | 951 | 954 | 1012 | 1070 | 1171 |
| 20° | 984 | 972 | 966 | 960 | 962 | 964 | 944 | 924 | 979 | 1034 | 1133 |
| 22.5° | 932 | 922 | 934 | 946 | 945 | 944 | 943 | 942 | 969 | 996 | 1073 |
| 25° | 904 | 900 | 897 | 894 | 895 | 896 | 902 | 908 | 950 | 992 | 1055 |
| 27.5° | 868 | 860 | 861 | 862 | 862 | 862 | 876 | 890 | 921 | 952 | 1010 |
| 30° | 832 | 834 | 833 | 832 | 831 | 830 | 827 | 824 | 861 | 898 | 973 |
| 32.5° | 788 | 776 | 783 | 790 | 784 | 778 | 780 | 782 | 817 | 852 | 923 |
| 35° | 748 | 742 | 744 | 746 | 745 | 744 | 740 | 736 | 769 | 802 | 865 |
| 37.5° | 706 | 694 | 699 | 704 | 706 | 708 | 695 | 682 | 715 | 748 | 811 |
| 40° | 652 | 656 | 651 | 646 | 647 | 648 | 639 | 630 | 645 | 660 | 732 |
| 42.5° | 608 | 594 | 590 | 586 | 588 | 590 | 584 | 578 | 608 | 638 | 691 |
| 45° | 546 | 540 | 540 | 540 | 535 | 530 | 524 | 518 | 547 | 576 | 613 |
| 47.5° | 484 | 482 | 476 | 470 | 470 | 470 | 469 | 468 | 491 | 514 | 552 |
| 50° | 428 | 426 | 423 | 420 | 421 | 422 | 410 | 398 | 419 | 440 | 475 |
| 52.5° | 362 | 358 | 358 | 358 | 353 | 348 | 348 | 348 | 363 | 378 | 404 |
| 55° | 294 | 296 | 295 | 294 | 290 | 286 | 285 | 284 | 296 | 308 | 329 |
| 57.5° | 240 | 248 | 242 | 236 | 233 | 230 | 229 | 228 | 237 | 246 | 265 |
| 60° | 164 | 164 | 165 | 166 | 173 | 180 | 184 | 188 | 190 | 192 | 203 |
| 62.5° | 130 | 130 | 130 | 130 | 128 | 126 | 132 | 138 | 142 | 146 | 155 |
| 65° | 106 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 106 | 112 | 118 |
| 67.5° | 90 | 88 | 89 | 90 | 88 | 86 | 84 | 82 | 83 | 84 | 89 |
| 70° | 76 | 76 | 75 | 74 | 72 | 70 | 68 | 66 | 65 | 64 | 68 |
| 72.5° | 64 | 64 | 63 | 62 | 61 | 60 | 57 | 54 | 53 | 52 | 53 |
| 75° | 54 | 54 | 53 | 52 | 51 | 50 | 48 | 46 | 44 | 42 | 41 |
| 77.5° | 48 | 46 | 46 | 46 | 44 | 42 | 40 | 38 | 36 | 34 | 32 |
| 80° | 40 | 40 | 40 | 40 | 38 | 36 | 34 | 32 | 30 | 28 | 26 |
| 82.5° | 36 | 34 | 34 | 34 | 33 | 32 | 30 | 28 | 26 | 24 | 21 |
| 85° | 32 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 23 | 20 | 18 |
| 87.5° | 30 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 22 | 20 | 17 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



REPORT NUMBER: P394780

CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T5X-DIM10

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|------|------|------|------|------|------|------|------|
| 0° | 1612 | 1612 | 1612 | 1612 | 1612 | 1612 | 1612 | 1612 |
| 2.5° | 1646 | 1668 | 1690 | 1657 | 1624 | 1615 | 1606 | 1608 |
| 5° | 1482 | 1505 | 1528 | 1611 | 1694 | 1654 | 1614 | 1588 |
| 7.5° | 1464 | 1487 | 1510 | 1568 | 1626 | 1615 | 1604 | 1576 |
| 10° | 1248 | 1375 | 1502 | 1540 | 1578 | 1569 | 1560 | 1564 |
| 12.5° | 1238 | 1303 | 1368 | 1464 | 1560 | 1550 | 1540 | 1540 |
| 15° | 1294 | 1286 | 1278 | 1404 | 1530 | 1534 | 1538 | 1536 |
| 17.5° | 1272 | 1272 | 1272 | 1384 | 1496 | 1505 | 1514 | 1496 |
| 20° | 1232 | 1275 | 1318 | 1366 | 1414 | 1440 | 1466 | 1460 |
| 22.5° | 1150 | 1215 | 1280 | 1313 | 1346 | 1395 | 1444 | 1444 |
| 25° | 1118 | 1183 | 1248 | 1274 | 1300 | 1337 | 1374 | 1404 |
| 27.5° | 1068 | 1126 | 1184 | 1222 | 1260 | 1298 | 1336 | 1340 |
| 30° | 1048 | 1091 | 1134 | 1198 | 1262 | 1274 | 1286 | 1288 |
| 32.5° | 994 | 1043 | 1092 | 1151 | 1210 | 1227 | 1244 | 1228 |
| 35° | 928 | 973 | 1018 | 1083 | 1148 | 1159 | 1170 | 1180 |
| 37.5° | 874 | 912 | 950 | 1008 | 1066 | 1083 | 1100 | 1104 |
| 40° | 804 | 840 | 876 | 934 | 992 | 1009 | 1026 | 1016 |
| 42.5° | 744 | 779 | 814 | 856 | 898 | 914 | 930 | 932 |
| 45° | 650 | 689 | 728 | 773 | 818 | 834 | 850 | 856 |
| 47.5° | 590 | 611 | 632 | 677 | 722 | 730 | 738 | 748 |
| 50° | 510 | 526 | 542 | 577 | 612 | 627 | 642 | 644 |
| 52.5° | 430 | 445 | 460 | 490 | 520 | 529 | 538 | 548 |
| 55° | 350 | 362 | 374 | 395 | 416 | 420 | 424 | 420 |
| 57.5° | 284 | 292 | 300 | 313 | 326 | 326 | 326 | 324 |
| 60° | 214 | 221 | 228 | 235 | 242 | 244 | 246 | 240 |
| 62.5° | 164 | 168 | 172 | 176 | 180 | 180 | 180 | 176 |
| 65° | 124 | 124 | 124 | 130 | 136 | 137 | 138 | 136 |
| 67.5° | 94 | 97 | 100 | 103 | 106 | 106 | 106 | 104 |
| 70° | 72 | 74 | 76 | 79 | 82 | 83 | 84 | 84 |
| 72.5° | 54 | 58 | 62 | 62 | 62 | 62 | 62 | 60 |
| 75° | 40 | 41 | 42 | 43 | 44 | 43 | 42 | 40 |
| 77.5° | 30 | 29 | 28 | 29 | 30 | 28 | 26 | 28 |
| 80° | 24 | 22 | 20 | 19 | 18 | 16 | 14 | 12 |
| 82.5° | 18 | 15 | 12 | 10 | 8 | 7 | 6 | 4 |
| 85° | 16 | 13 | 10 | 7 | 4 | 2 | 0 | 0 |
| 87.5° | 14 | 12 | 10 | 7 | 4 | 2 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)