

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: P227771

Luminaire Tested: **ISC-AF-450-LED-E1-T3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-450-LED-E1-T3-7060
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2994 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

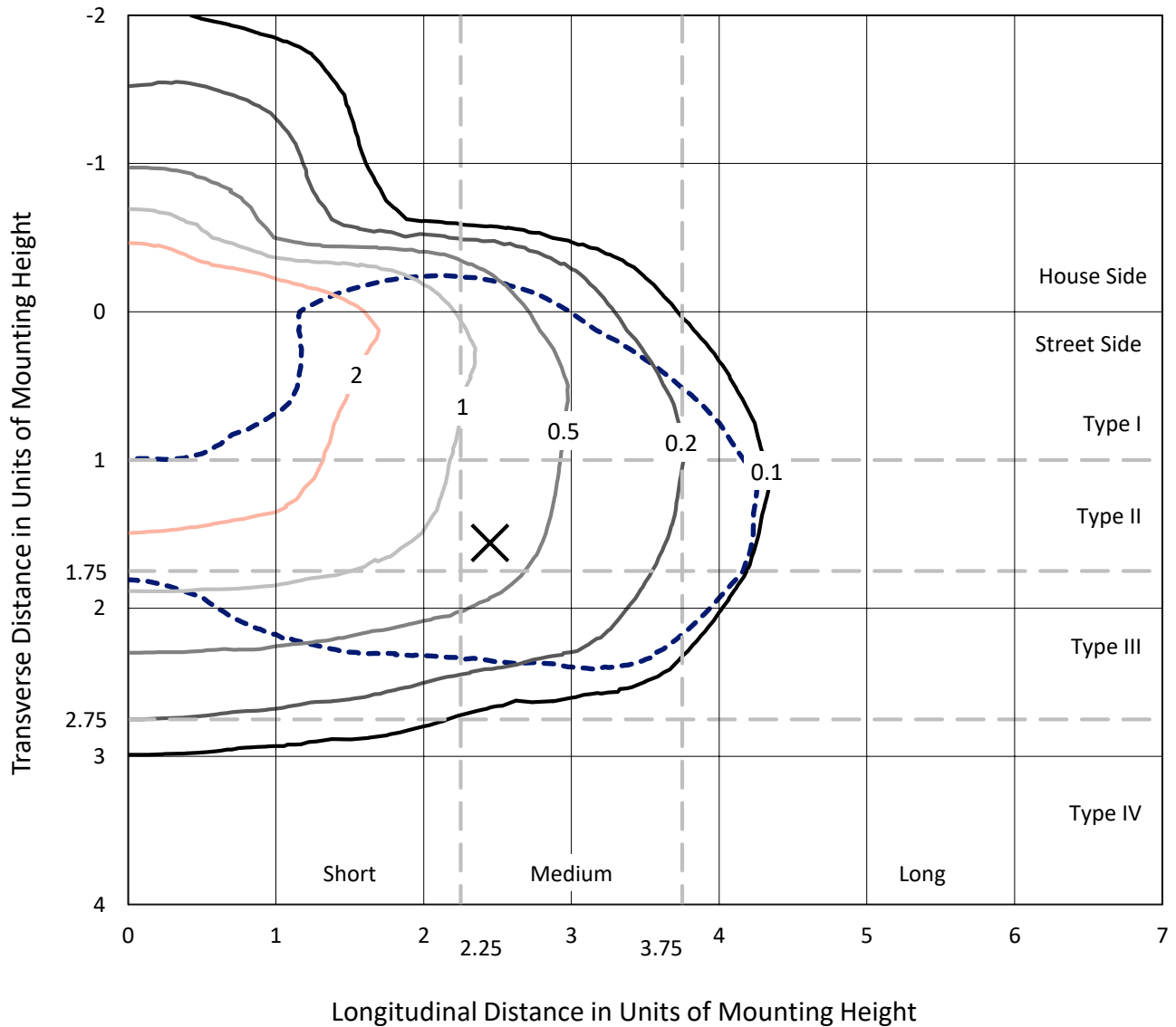
Input Watts (W): 25.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P227771
 CATALOG NUMBER: ISC-AF-450-LED-E1-T3-7060

Iso-Footcandle Lines of Horizontal Illumination

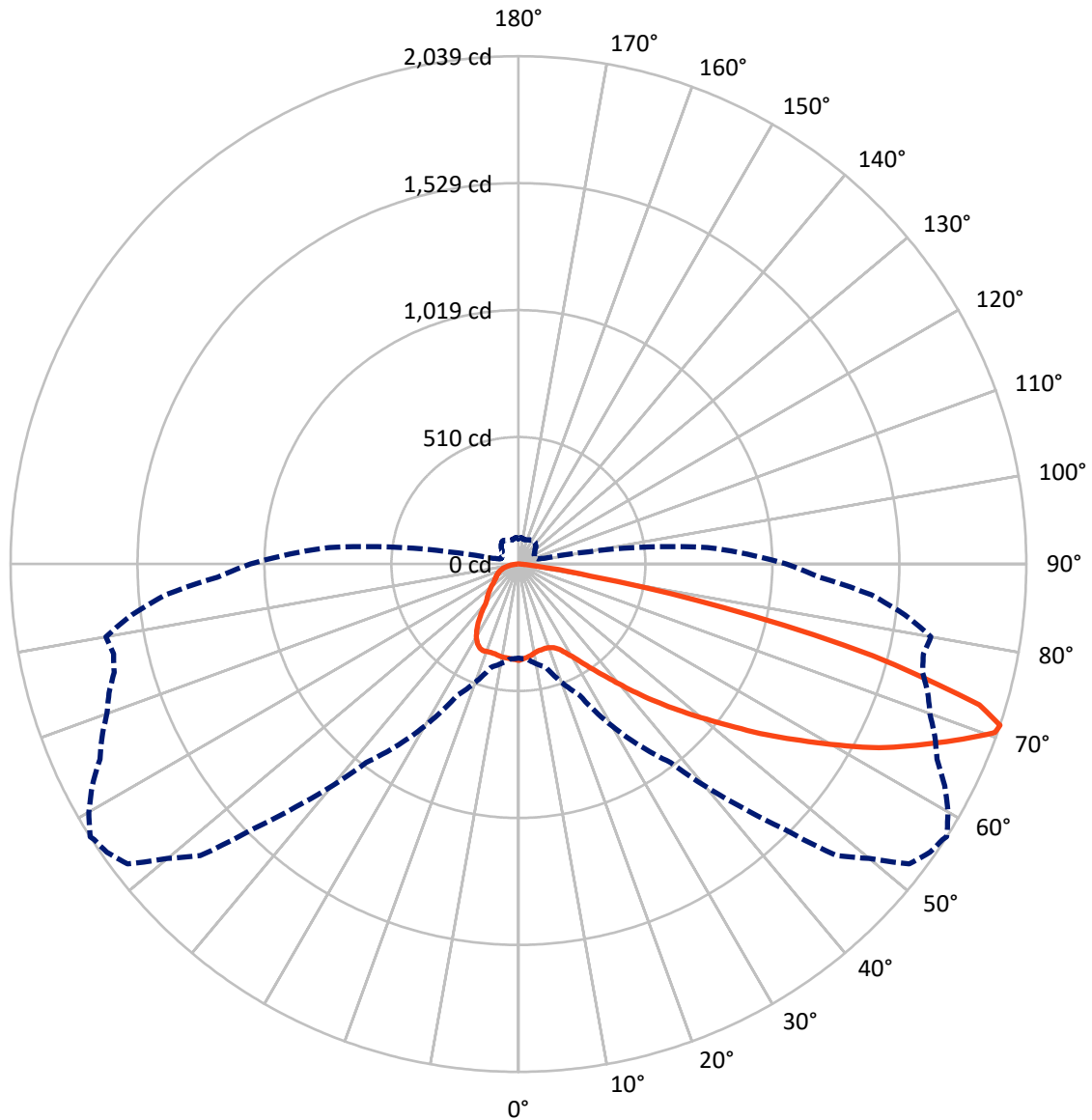
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 651.8 | 0.0 | 651.8 |
| | % Fixture | 21.8 | 0.0 | 21.8 |
| Street Side | Lumens | 2342.2 | 0.0 | 2342.2 |
| | % Fixture | 78.2 | 0.0 | 78.2 |
| Total | Lumens | 2994.0 | 0.0 | 2994.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 36.4 | 1.2 |
| 10°-20° | 104.9 | 3.5 |
| 20°-30° | 174.1 | 5.8 |
| 30°-40° | 277.2 | 9.3 |
| 40°-50° | 450.3 | 15.0 |
| 50°-60° | 675.2 | 22.6 |
| 60°-70° | 805.5 | 26.9 |
| 70°-80° | 435.0 | 14.5 |
| 80°-90° | 35.4 | 1.2 |
| 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° | 2994.0 | 100.0 |
| 0°-180° | 2994.0 | 100.0 |



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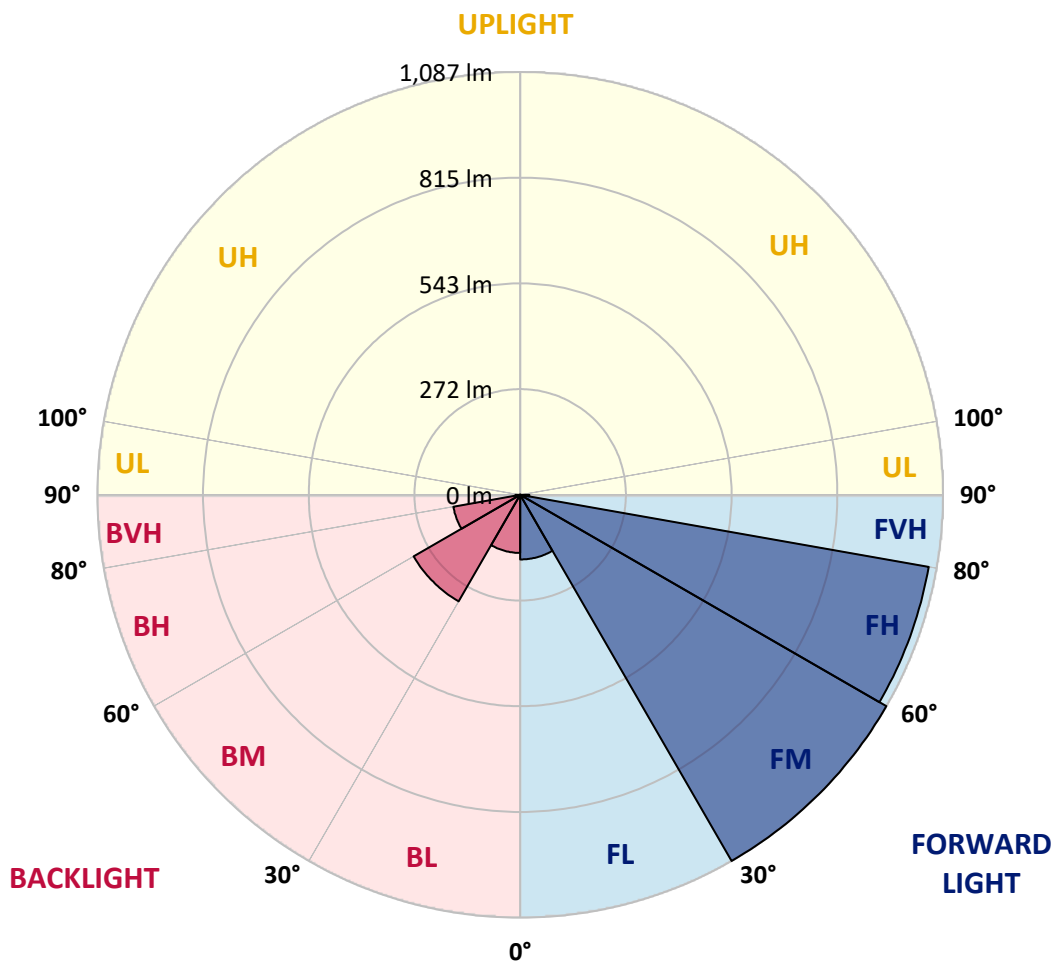
CATALOG NUMBER: ISC-AF-450-LED-E1-T3-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 166.1 | 5.5 | | | |
| FM | (30°-60°) | 1086.6 | 36.3 | | | |
| FH | (60°-80°) | 1066.1 | 35.6 | | | G1/1800 |
| FVH | (80°-90°) | 23.3 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 149.3 | 5.0 | B1/500 | | |
| BM | (30°-60°) | 316.1 | 10.6 | B1/1000 | | |
| BH | (60°-80°) | 174.4 | 5.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 12.1 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Medium





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CATALOG NUMBER: ISC-AF-450-LED-E1-T3-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 |
| 2.5° | 386.8 | 385.8 | 384.8 | 384.8 | 384.8 | 383.8 | 380.8 | 381.8 | 384.8 | 382.8 | 385.8 |
| 5° | 385.8 | 383.8 | 382.8 | 382.8 | 382.8 | 379.9 | 378.9 | 377.9 | 383.8 | 378.9 | 382.8 |
| 7.5° | 374.9 | 374.9 | 372.9 | 374.9 | 376.9 | 373.9 | 371.9 | 372.9 | 377.9 | 372.9 | 377.9 |
| 10° | 367.0 | 365.0 | 364.0 | 364.0 | 366.0 | 362.0 | 360.1 | 362.0 | 368.0 | 362.0 | 369.0 |
| 12.5° | 364.0 | 365.0 | 362.0 | 362.0 | 361.1 | 356.1 | 356.1 | 356.1 | 361.1 | 356.1 | 362.0 |
| 15° | 369.0 | 368.0 | 365.0 | 363.0 | 360.1 | 356.1 | 355.1 | 356.1 | 360.1 | 354.1 | 361.1 |
| 17.5° | 375.9 | 375.9 | 371.0 | 366.0 | 363.0 | 359.1 | 359.1 | 357.1 | 360.1 | 356.1 | 361.1 |
| 20° | 393.7 | 390.7 | 383.8 | 375.9 | 368.0 | 366.0 | 362.0 | 362.0 | 364.0 | 360.1 | 363.0 |
| 22.5° | 424.4 | 421.4 | 409.5 | 394.7 | 381.8 | 376.9 | 374.9 | 373.9 | 371.9 | 370.0 | 370.0 |
| 25° | 464.9 | 460.0 | 446.1 | 428.3 | 406.6 | 402.6 | 398.6 | 395.7 | 388.8 | 388.8 | 383.8 |
| 27.5° | 508.5 | 503.5 | 488.7 | 468.9 | 442.2 | 436.2 | 431.3 | 427.3 | 415.5 | 415.5 | 406.6 |
| 30° | 557.9 | 552.0 | 534.2 | 512.4 | 481.7 | 479.8 | 472.8 | 466.9 | 451.1 | 450.1 | 438.2 |
| 32.5° | 615.3 | 607.4 | 589.6 | 560.9 | 528.2 | 529.2 | 518.3 | 514.4 | 493.6 | 494.6 | 478.8 |
| 35° | 680.6 | 671.7 | 653.9 | 616.3 | 582.6 | 585.6 | 575.7 | 568.8 | 543.1 | 543.1 | 526.3 |
| 37.5° | 749.8 | 749.8 | 727.1 | 683.5 | 643.0 | 649.9 | 638.0 | 631.1 | 605.4 | 609.4 | 582.6 |
| 40° | 827.0 | 831.9 | 807.2 | 757.7 | 716.2 | 719.2 | 710.2 | 702.3 | 671.7 | 678.6 | 649.9 |
| 42.5° | 908.1 | 917.0 | 895.2 | 843.8 | 797.3 | 807.2 | 792.4 | 784.4 | 751.8 | 766.6 | 733.0 |
| 45° | 1025.8 | 1027.8 | 987.2 | 937.8 | 899.2 | 908.1 | 887.3 | 884.4 | 843.8 | 859.6 | 826.0 |
| 47.5° | 1100.0 | 1095.1 | 1065.4 | 1035.7 | 1012.9 | 1030.8 | 1012.0 | 1007.0 | 960.5 | 971.4 | 923.9 |
| 50° | 1150.4 | 1153.4 | 1130.7 | 1127.7 | 1131.7 | 1165.3 | 1162.3 | 1152.4 | 1097.0 | 1089.1 | 1029.8 |
| 52.5° | 1195.9 | 1183.1 | 1179.1 | 1206.8 | 1249.4 | 1288.9 | 1304.8 | 1291.9 | 1231.6 | 1209.8 | 1152.4 |
| 55° | 1188.0 | 1169.2 | 1190.0 | 1257.3 | 1341.4 | 1402.7 | 1404.7 | 1395.8 | 1341.4 | 1332.5 | 1270.1 |
| 57.5° | 1134.6 | 1138.6 | 1181.1 | 1277.1 | 1419.5 | 1482.8 | 1493.7 | 1482.8 | 1438.3 | 1446.2 | 1394.8 |
| 60° | 1060.4 | 1068.3 | 1135.6 | 1259.3 | 1481.8 | 1536.2 | 1541.2 | 1554.0 | 1524.4 | 1545.1 | 1509.5 |
| 62.5° | 949.6 | 960.5 | 1046.6 | 1214.7 | 1438.3 | 1519.4 | 1564.9 | 1594.6 | 1588.7 | 1636.1 | 1617.4 |
| 65° | 872.5 | 872.5 | 956.6 | 1163.3 | 1395.8 | 1502.6 | 1570.9 | 1626.3 | 1634.2 | 1709.3 | 1702.4 |
| 67.5° | 729.0 | 734.0 | 806.2 | 1019.9 | 1344.3 | 1465.0 | 1567.9 | 1661.9 | 1709.3 | 1828.1 | 1834.0 |
| 70° | 504.5 | 508.5 | 555.9 | 728.1 | 1086.1 | 1189.0 | 1340.4 | 1493.7 | 1636.1 | 1815.2 | 1908.2 |
| 71° | 377.9 | 382.8 | 429.3 | 580.7 | 920.0 | 1005.0 | 1162.3 | 1321.6 | 1500.6 | 1733.1 | 1837.9 |
| 72.5° | 185.0 | 187.9 | 233.5 | 372.9 | 640.0 | 748.8 | 839.8 | 992.2 | 1182.1 | 1448.2 | 1596.6 |
| 75° | 86.1 | 87.1 | 96.9 | 134.5 | 244.3 | 290.8 | 331.4 | 429.3 | 547.0 | 780.5 | 960.5 |
| 77.5° | 63.3 | 63.3 | 69.2 | 88.0 | 126.6 | 128.6 | 126.6 | 129.6 | 156.3 | 223.6 | 336.3 |
| 80° | 46.5 | 46.5 | 50.4 | 59.4 | 84.1 | 84.1 | 81.1 | 82.1 | 79.1 | 82.1 | 93.0 |
| 82.5° | 30.7 | 30.7 | 32.6 | 35.6 | 51.4 | 51.4 | 49.5 | 49.5 | 47.5 | 46.5 | 50.4 |
| 85° | 17.8 | 18.8 | 19.8 | 16.8 | 21.8 | 20.8 | 18.8 | 20.8 | 19.8 | 17.8 | 21.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: ISC-AF-450-LED-E1-T3-7060

CANDELA DISTRIBUTION (continued):

| | 52.5° | 55° | 57° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 |
| 2.5° | 381.8 | 384.8 | 384.8 | 380.8 | 383.8 | 380.8 | 382.8 | 379.9 | 382.8 | 377.9 | 383.8 |
| 5° | 378.9 | 381.8 | 381.8 | 375.9 | 381.8 | 375.9 | 380.8 | 373.9 | 380.8 | 372.9 | 380.8 |
| 7.5° | 371.0 | 377.9 | 377.9 | 370.0 | 376.9 | 371.0 | 376.9 | 370.0 | 375.9 | 367.0 | 376.9 |
| 10° | 362.0 | 369.0 | 370.0 | 362.0 | 370.0 | 363.0 | 371.9 | 363.0 | 371.9 | 362.0 | 372.9 |
| 12.5° | 356.1 | 364.0 | 366.0 | 357.1 | 367.0 | 358.1 | 369.0 | 359.1 | 369.0 | 358.1 | 371.0 |
| 15° | 355.1 | 362.0 | 364.0 | 356.1 | 365.0 | 355.1 | 368.0 | 356.1 | 369.0 | 357.1 | 371.9 |
| 17.5° | 356.1 | 362.0 | 364.0 | 355.1 | 364.0 | 356.1 | 367.0 | 357.1 | 369.0 | 358.1 | 371.9 |
| 20° | 359.1 | 363.0 | 363.0 | 358.1 | 365.0 | 358.1 | 367.0 | 357.1 | 370.0 | 360.1 | 372.9 |
| 22.5° | 368.0 | 369.0 | 369.0 | 365.0 | 369.0 | 364.0 | 371.0 | 364.0 | 372.9 | 365.0 | 376.9 |
| 25° | 382.8 | 381.8 | 379.9 | 378.9 | 379.9 | 376.9 | 380.8 | 375.9 | 384.8 | 377.9 | 389.7 |
| 27.5° | 408.5 | 404.6 | 402.6 | 402.6 | 401.6 | 402.6 | 402.6 | 400.6 | 404.6 | 402.6 | 410.5 |
| 30° | 440.2 | 433.3 | 430.3 | 433.3 | 429.3 | 433.3 | 432.3 | 431.3 | 435.3 | 433.3 | 440.2 |
| 32.5° | 481.7 | 469.9 | 467.9 | 473.8 | 465.9 | 472.8 | 466.9 | 469.9 | 472.8 | 474.8 | 478.8 |
| 35° | 530.2 | 516.4 | 514.4 | 520.3 | 511.4 | 521.3 | 514.4 | 518.3 | 520.3 | 525.3 | 528.2 |
| 37.5° | 587.6 | 570.8 | 567.8 | 575.7 | 563.8 | 574.7 | 564.8 | 576.7 | 573.7 | 580.7 | 583.6 |
| 40° | 656.8 | 637.0 | 630.1 | 641.0 | 627.2 | 636.1 | 626.2 | 639.0 | 636.1 | 649.9 | 652.9 |
| 42.5° | 741.9 | 713.2 | 706.3 | 717.2 | 696.4 | 699.4 | 691.5 | 706.3 | 704.3 | 723.1 | 726.1 |
| 45° | 829.9 | 795.3 | 785.4 | 796.3 | 772.6 | 778.5 | 766.6 | 782.5 | 781.5 | 796.3 | 808.2 |
| 47.5° | 927.9 | 885.3 | 872.5 | 884.4 | 855.7 | 862.6 | 850.7 | 867.5 | 868.5 | 885.3 | 897.2 |
| 50° | 1029.8 | 985.2 | 968.4 | 979.3 | 952.6 | 957.6 | 945.7 | 966.5 | 965.5 | 988.2 | 997.1 |
| 52.5° | 1140.6 | 1095.1 | 1082.2 | 1087.1 | 1055.5 | 1061.4 | 1051.5 | 1077.2 | 1071.3 | 1085.2 | 1103.0 |
| 55° | 1263.2 | 1210.8 | 1195.9 | 1210.8 | 1173.2 | 1181.1 | 1168.3 | 1192.0 | 1182.1 | 1199.9 | 1204.9 |
| 57.5° | 1388.8 | 1337.4 | 1325.5 | 1336.4 | 1300.8 | 1306.7 | 1289.9 | 1309.7 | 1301.8 | 1313.7 | 1321.6 |
| 60° | 1522.4 | 1475.9 | 1464.0 | 1475.9 | 1441.3 | 1442.3 | 1413.6 | 1434.3 | 1422.5 | 1437.3 | 1434.3 |
| 62.5° | 1650.0 | 1610.4 | 1607.5 | 1624.3 | 1580.8 | 1575.8 | 1541.2 | 1556.0 | 1539.2 | 1549.1 | 1537.2 |
| 65° | 1758.8 | 1736.1 | 1740.0 | 1753.9 | 1715.3 | 1703.4 | 1663.8 | 1671.8 | 1647.0 | 1647.0 | 1632.2 |
| 67.5° | 1901.3 | 1876.5 | 1876.5 | 1888.4 | 1839.9 | 1809.3 | 1754.9 | 1747.9 | 1707.4 | 1699.5 | 1664.8 |
| 70° | 2020.0 | 2026.9 | 2019.0 | 2028.9 | 1971.5 | 1909.2 | 1837.0 | 1802.3 | 1748.9 | 1723.2 | 1682.6 |
| 71° | 1977.4 | 2017.0 | 2030.8 | 2038.8 | 1991.3 | 1929.0 | 1853.8 | 1809.3 | 1757.8 | 1723.2 | 1679.7 |
| 72.5° | 1784.5 | 1880.5 | 1934.9 | 1934.9 | 1940.8 | 1901.3 | 1829.0 | 1780.6 | 1722.2 | 1676.7 | 1636.1 |
| 75° | 1250.4 | 1406.7 | 1476.9 | 1469.0 | 1520.4 | 1538.2 | 1544.2 | 1523.4 | 1490.7 | 1425.4 | 1396.8 |
| 77.5° | 556.9 | 734.0 | 839.8 | 840.8 | 896.2 | 944.7 | 983.3 | 1023.8 | 1009.0 | 977.3 | 975.4 |
| 80° | 126.6 | 229.5 | 293.8 | 296.8 | 347.2 | 391.7 | 418.4 | 459.0 | 463.9 | 418.4 | 392.7 |
| 82.5° | 54.4 | 64.3 | 73.2 | 72.2 | 89.0 | 106.8 | 126.6 | 137.5 | 132.6 | 109.8 | 103.9 |
| 85° | 22.8 | 29.7 | 31.7 | 29.7 | 36.6 | 40.6 | 47.5 | 48.5 | 56.4 | 50.4 | 53.4 |
| 87.5° | 0.0 | 1.0 | 1.0 | 0.0 | 2.0 | 0.0 | 2.0 | 1.0 | 4.9 | 2.0 | 5.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: ISC-AF-450-LED-E1-T3-7060

CANDELA DISTRIBUTION (continued):

| | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° | 95° | 100° | 102.5° | 105° | 107.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|
| 0° | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 |
| 2.5° | 379.9 | 384.8 | 379.9 | 384.8 | 381.8 | 384.8 | 383.8 | 384.8 | 379.9 | 384.8 | 378.9 |
| 5° | 372.9 | 380.8 | 373.9 | 379.9 | 373.9 | 380.8 | 380.8 | 380.8 | 373.9 | 381.8 | 374.9 |
| 7.5° | 367.0 | 375.9 | 367.0 | 375.9 | 370.0 | 376.9 | 376.9 | 379.9 | 371.9 | 380.8 | 371.0 |
| 10° | 361.1 | 371.9 | 361.1 | 373.9 | 364.0 | 374.9 | 375.9 | 377.9 | 367.0 | 378.9 | 369.0 |
| 12.5° | 358.1 | 371.9 | 359.1 | 371.9 | 360.1 | 374.9 | 375.9 | 377.9 | 366.0 | 380.8 | 368.0 |
| 15° | 358.1 | 372.9 | 359.1 | 372.9 | 360.1 | 374.9 | 376.9 | 378.9 | 366.0 | 381.8 | 368.0 |
| 17.5° | 358.1 | 372.9 | 361.1 | 373.9 | 362.0 | 375.9 | 377.9 | 379.9 | 368.0 | 381.8 | 370.0 |
| 20° | 361.1 | 374.9 | 363.0 | 376.9 | 365.0 | 378.9 | 379.9 | 382.8 | 370.0 | 382.8 | 371.9 |
| 22.5° | 368.0 | 379.9 | 370.0 | 382.8 | 373.9 | 384.8 | 385.8 | 388.8 | 378.9 | 389.7 | 380.8 |
| 25° | 379.9 | 392.7 | 384.8 | 394.7 | 389.7 | 398.6 | 400.6 | 400.6 | 396.7 | 403.6 | 400.6 |
| 27.5° | 404.6 | 414.5 | 408.5 | 417.4 | 414.5 | 421.4 | 421.4 | 422.4 | 425.4 | 427.3 | 430.3 |
| 30° | 436.2 | 443.2 | 441.2 | 446.1 | 447.1 | 451.1 | 451.1 | 457.0 | 468.9 | 457.0 | 456.0 |
| 32.5° | 478.8 | 482.7 | 483.7 | 485.7 | 489.7 | 492.6 | 496.6 | 503.5 | 513.4 | 485.7 | 476.8 |
| 35° | 531.2 | 532.2 | 535.2 | 538.1 | 545.1 | 547.0 | 559.9 | 554.9 | 554.9 | 511.4 | 492.6 |
| 37.5° | 588.6 | 588.6 | 596.5 | 596.5 | 613.3 | 614.3 | 627.2 | 601.4 | 586.6 | 530.2 | 502.5 |
| 40° | 660.8 | 659.8 | 668.7 | 670.7 | 693.4 | 694.4 | 692.4 | 636.1 | 604.4 | 535.2 | 497.6 |
| 42.5° | 737.0 | 739.9 | 751.8 | 755.8 | 772.6 | 778.5 | 753.8 | 659.8 | 612.3 | 532.2 | 480.8 |
| 45° | 820.1 | 826.0 | 840.8 | 851.7 | 869.5 | 862.6 | 803.2 | 670.7 | 603.4 | 514.4 | 448.1 |
| 47.5° | 911.1 | 917.0 | 928.9 | 949.6 | 957.6 | 949.6 | 843.8 | 674.6 | 589.6 | 486.7 | 400.6 |
| 50° | 1003.1 | 1012.9 | 1029.8 | 1059.4 | 1063.4 | 1043.6 | 893.3 | 689.5 | 578.7 | 458.0 | 346.2 |
| 52.5° | 1106.9 | 1116.8 | 1136.6 | 1186.1 | 1176.2 | 1135.6 | 951.6 | 717.2 | 581.7 | 440.2 | 299.7 |
| 55° | 1216.7 | 1230.6 | 1269.2 | 1317.6 | 1295.9 | 1232.6 | 1015.9 | 757.7 | 593.5 | 421.4 | 248.3 |
| 57.5° | 1332.5 | 1347.3 | 1397.7 | 1455.1 | 1412.6 | 1327.5 | 1081.2 | 789.4 | 599.5 | 382.8 | 191.9 |
| 60° | 1447.2 | 1468.0 | 1533.3 | 1580.8 | 1514.5 | 1408.6 | 1139.6 | 810.2 | 583.6 | 309.6 | 148.4 |
| 62.5° | 1552.1 | 1585.7 | 1658.9 | 1684.6 | 1578.8 | 1460.1 | 1171.2 | 795.3 | 519.3 | 213.7 | 119.7 |
| 65° | 1626.3 | 1669.8 | 1717.3 | 1714.3 | 1566.9 | 1443.3 | 1147.5 | 727.1 | 386.8 | 141.5 | 101.9 |
| 67.5° | 1657.9 | 1698.5 | 1709.3 | 1658.9 | 1481.8 | 1369.1 | 1062.4 | 585.6 | 222.6 | 105.8 | 89.0 |
| 70° | 1669.8 | 1704.4 | 1643.1 | 1521.4 | 1315.6 | 1187.0 | 868.5 | 372.9 | 121.7 | 86.1 | 77.2 |
| 71° | 1664.8 | 1681.7 | 1564.9 | 1422.5 | 1209.8 | 1075.3 | 761.7 | 283.9 | 103.9 | 80.1 | 73.2 |
| 72.5° | 1597.6 | 1573.8 | 1393.8 | 1235.5 | 1025.8 | 889.3 | 592.5 | 179.0 | 85.1 | 72.2 | 68.3 |
| 75° | 1305.8 | 1198.9 | 1025.8 | 876.4 | 698.4 | 558.9 | 321.5 | 92.0 | 68.3 | 62.3 | 59.4 |
| 77.5° | 853.7 | 760.7 | 618.3 | 502.5 | 381.8 | 289.8 | 131.6 | 63.3 | 54.4 | 52.4 | 51.4 |
| 80° | 304.7 | 244.3 | 185.0 | 162.2 | 122.7 | 100.9 | 64.3 | 48.5 | 42.5 | 43.5 | 42.5 |
| 82.5° | 86.1 | 79.1 | 68.3 | 63.3 | 55.4 | 54.4 | 41.5 | 36.6 | 33.6 | 35.6 | 34.6 |
| 85° | 42.5 | 36.6 | 26.7 | 25.7 | 19.8 | 22.8 | 20.8 | 24.7 | 21.8 | 22.8 | 20.8 |
| 87.5° | 3.0 | 4.0 | 1.0 | 3.0 | 0.0 | 3.0 | 4.0 | 4.9 | 1.0 | 4.0 | 3.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P227771

CATALOG NUMBER: ISC-AF-450-LED-E1-T3-7060

CANDELA DISTRIBUTION (continued):

| | 110° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 135° | 145° |
|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|
| 0° | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 | 386.8 |
| 2.5° | 385.8 | 381.8 | 386.8 | 381.8 | 386.8 | 383.8 | 386.8 | 383.8 | 386.8 | 388.8 | 388.8 |
| 5° | 383.8 | 376.9 | 385.8 | 380.8 | 386.8 | 381.8 | 385.8 | 382.8 | 387.8 | 389.7 | 391.7 |
| 7.5° | 382.8 | 375.9 | 384.8 | 377.9 | 386.8 | 379.9 | 385.8 | 381.8 | 387.8 | 389.7 | 393.7 |
| 10° | 381.8 | 372.9 | 384.8 | 374.9 | 385.8 | 378.9 | 385.8 | 379.9 | 386.8 | 388.8 | 389.7 |
| 12.5° | 381.8 | 371.9 | 384.8 | 373.9 | 385.8 | 375.9 | 384.8 | 375.9 | 385.8 | 384.8 | 381.8 |
| 15° | 382.8 | 370.0 | 384.8 | 371.9 | 384.8 | 372.9 | 383.8 | 371.9 | 381.8 | 378.9 | 376.9 |
| 17.5° | 382.8 | 370.0 | 383.8 | 371.0 | 382.8 | 371.9 | 380.8 | 370.0 | 378.9 | 377.9 | 374.9 |
| 20° | 384.8 | 371.9 | 383.8 | 374.9 | 383.8 | 372.9 | 379.9 | 370.0 | 376.9 | 371.0 | 359.1 |
| 22.5° | 390.7 | 381.8 | 390.7 | 381.8 | 385.8 | 375.9 | 378.9 | 367.0 | 366.0 | 356.1 | 337.3 |
| 25° | 404.6 | 400.6 | 398.6 | 387.8 | 384.8 | 371.9 | 368.0 | 354.1 | 349.2 | 334.4 | 308.6 |
| 27.5° | 422.4 | 413.5 | 401.6 | 388.8 | 375.9 | 360.1 | 349.2 | 338.3 | 327.4 | 308.6 | 276.0 |
| 30° | 434.3 | 421.4 | 396.7 | 378.9 | 355.1 | 342.3 | 323.5 | 311.6 | 295.8 | 272.0 | 240.4 |
| 32.5° | 442.2 | 422.4 | 384.8 | 364.0 | 332.4 | 315.6 | 290.8 | 278.0 | 255.2 | 232.5 | 209.7 |
| 35° | 444.2 | 418.4 | 369.0 | 346.2 | 304.7 | 285.9 | 253.2 | 239.4 | 217.6 | 201.8 | 192.9 |
| 37.5° | 436.2 | 404.6 | 344.2 | 314.6 | 269.1 | 247.3 | 216.6 | 206.7 | 193.9 | 187.9 | 184.0 |
| 40° | 420.4 | 377.9 | 305.7 | 271.0 | 224.5 | 207.7 | 191.9 | 191.9 | 185.0 | 182.0 | 175.1 |
| 42.5° | 391.7 | 338.3 | 256.2 | 222.6 | 190.9 | 187.9 | 179.0 | 183.0 | 178.1 | 176.1 | 166.2 |
| 45° | 347.2 | 281.9 | 206.7 | 187.0 | 172.1 | 174.1 | 168.2 | 172.1 | 169.2 | 168.2 | 156.3 |
| 47.5° | 289.8 | 224.5 | 174.1 | 167.2 | 157.3 | 160.3 | 155.3 | 160.3 | 157.3 | 158.3 | 149.4 |
| 50° | 231.5 | 182.0 | 154.3 | 150.4 | 143.4 | 145.4 | 142.4 | 147.4 | 146.4 | 150.4 | 145.4 |
| 52.5° | 185.0 | 155.3 | 137.5 | 134.5 | 130.6 | 131.6 | 130.6 | 135.5 | 136.5 | 144.4 | 144.4 |
| 55° | 153.3 | 133.5 | 123.7 | 122.7 | 118.7 | 119.7 | 120.7 | 125.6 | 129.6 | 139.5 | 144.4 |
| 57.5° | 131.6 | 119.7 | 112.8 | 111.8 | 109.8 | 110.8 | 112.8 | 118.7 | 122.7 | 135.5 | 146.4 |
| 60° | 115.7 | 108.8 | 103.9 | 103.9 | 101.9 | 103.9 | 105.8 | 111.8 | 116.7 | 131.6 | 142.4 |
| 62.5° | 103.9 | 98.9 | 96.0 | 96.9 | 96.0 | 97.9 | 99.9 | 105.8 | 111.8 | 125.6 | 136.5 |
| 65° | 93.0 | 90.0 | 88.0 | 89.0 | 89.0 | 92.0 | 94.0 | 99.9 | 104.9 | 117.7 | 131.6 |
| 67.5° | 84.1 | 82.1 | 81.1 | 82.1 | 83.1 | 86.1 | 89.0 | 93.0 | 96.9 | 108.8 | 124.6 |
| 70° | 77.2 | 75.2 | 75.2 | 75.2 | 76.2 | 79.1 | 83.1 | 85.1 | 89.0 | 101.9 | 116.7 |
| 71° | 73.2 | 72.2 | 72.2 | 72.2 | 73.2 | 76.2 | 80.1 | 82.1 | 86.1 | 98.9 | 112.8 |
| 72.5° | 68.3 | 68.3 | 69.2 | 68.3 | 70.2 | 71.2 | 75.2 | 77.2 | 82.1 | 95.0 | 107.8 |
| 75° | 60.3 | 60.3 | 61.3 | 61.3 | 63.3 | 63.3 | 66.3 | 68.3 | 74.2 | 85.1 | 96.9 |
| 77.5° | 53.4 | 53.4 | 55.4 | 54.4 | 54.4 | 52.4 | 56.4 | 58.4 | 63.3 | 74.2 | 86.1 |
| 80° | 45.5 | 44.5 | 46.5 | 43.5 | 42.5 | 40.6 | 43.5 | 46.5 | 54.4 | 61.3 | 63.3 |
| 82.5° | 35.6 | 32.6 | 33.6 | 30.7 | 30.7 | 28.7 | 31.7 | 32.6 | 37.6 | 44.5 | 48.5 |
| 85° | 21.8 | 17.8 | 19.8 | 16.8 | 18.8 | 16.8 | 17.8 | 18.8 | 22.8 | 27.7 | 26.7 |
| 87.5° | 4.9 | 3.0 | 4.0 | 1.0 | 3.0 | 0.0 | 3.0 | 1.0 | 3.0 | 1.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P227771

CATALOG NUMBER: ISC-AF-450-LED-E1-T3-7060

CANDELA DISTRIBUTION (continued):

| | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 386.8 | 386.8 | 386.8 | 386.8 |
| 2.5° | 390.7 | 389.7 | 390.7 | 389.7 |
| 5° | 395.7 | 395.7 | 396.7 | 397.7 |
| 7.5° | 396.7 | 398.6 | 400.6 | 399.6 |
| 10° | 389.7 | 387.8 | 389.7 | 387.8 |
| 12.5° | 378.9 | 376.9 | 378.9 | 378.9 |
| 15° | 377.9 | 376.9 | 377.9 | 377.9 |
| 17.5° | 371.0 | 366.0 | 364.0 | 363.0 |
| 20° | 351.2 | 342.3 | 340.3 | 337.3 |
| 22.5° | 323.5 | 310.6 | 306.7 | 303.7 |
| 25° | 289.8 | 272.0 | 265.1 | 261.2 |
| 27.5° | 253.2 | 235.4 | 228.5 | 228.5 |
| 30° | 224.5 | 210.7 | 203.8 | 203.8 |
| 32.5° | 203.8 | 195.9 | 190.9 | 191.9 |
| 35° | 187.0 | 182.0 | 179.0 | 180.0 |
| 37.5° | 176.1 | 168.2 | 161.2 | 161.2 |
| 40° | 165.2 | 155.3 | 146.4 | 146.4 |
| 42.5° | 155.3 | 145.4 | 139.5 | 138.5 |
| 45° | 145.4 | 138.5 | 133.5 | 132.6 |
| 47.5° | 140.5 | 134.5 | 129.6 | 128.6 |
| 50° | 138.5 | 132.6 | 125.6 | 125.6 |
| 52.5° | 140.5 | 135.5 | 122.7 | 122.7 |
| 55° | 144.4 | 141.5 | 122.7 | 120.7 |
| 57.5° | 140.5 | 135.5 | 123.7 | 120.7 |
| 60° | 131.6 | 123.7 | 121.7 | 119.7 |
| 62.5° | 125.6 | 117.7 | 121.7 | 120.7 |
| 65° | 120.7 | 114.7 | 123.7 | 121.7 |
| 67.5° | 115.7 | 109.8 | 123.7 | 119.7 |
| 70° | 109.8 | 103.9 | 112.8 | 105.8 |
| 71° | 106.8 | 99.9 | 106.8 | 100.9 |
| 72.5° | 101.9 | 94.0 | 96.0 | 92.0 |
| 75° | 92.0 | 84.1 | 82.1 | 81.1 |
| 77.5° | 76.2 | 67.3 | 64.3 | 63.3 |
| 80° | 58.4 | 52.4 | 52.4 | 49.5 |
| 82.5° | 43.5 | 38.6 | 37.6 | 32.6 |
| 85° | 22.8 | 17.8 | 14.8 | 14.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)