

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: P227584

Luminaire Tested: **ISS-AF-800-LED-E1-T2-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-800-LED-E1-T2-8030  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

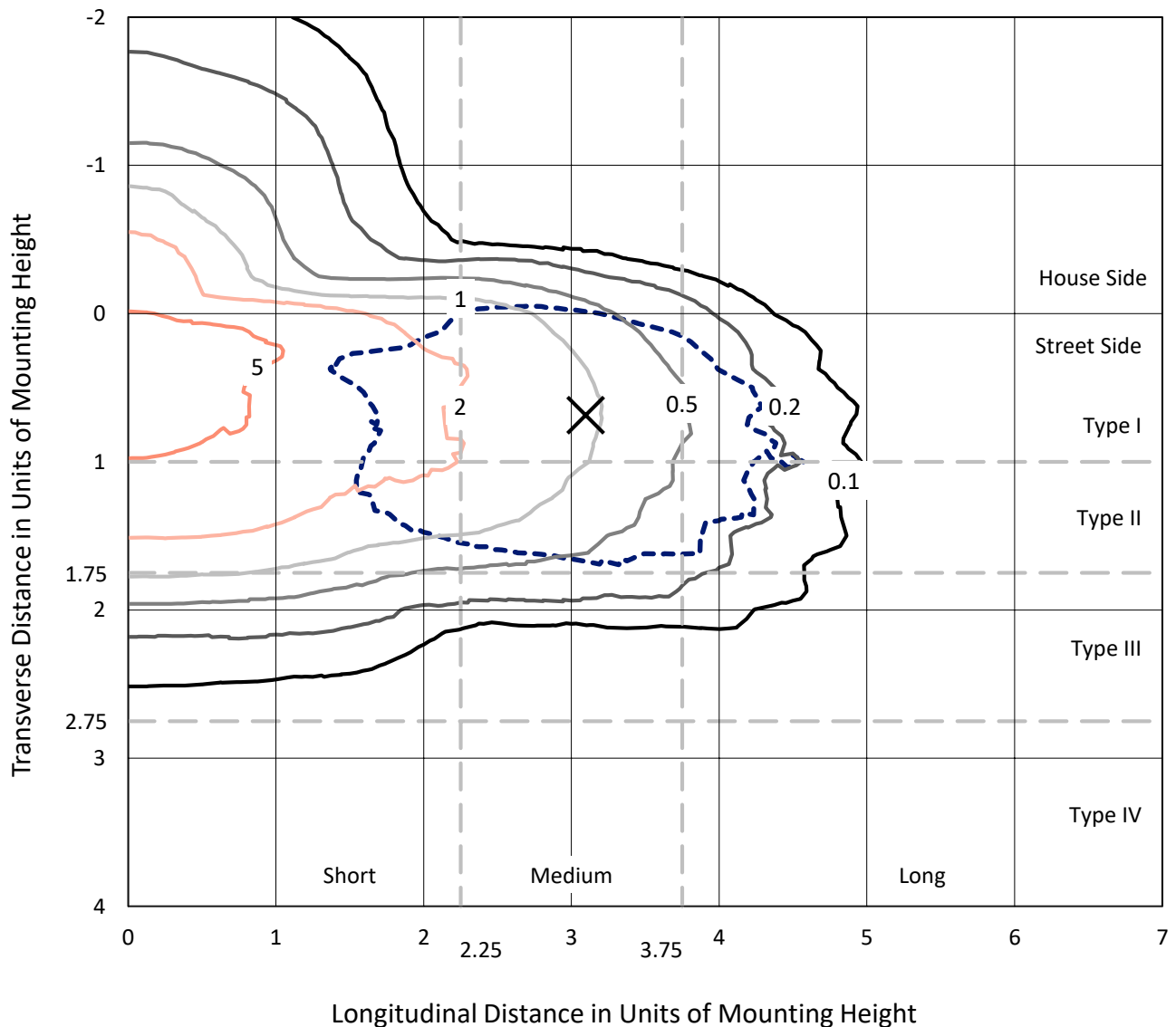
Lumens per Lamp: N/A  
Luminaire Lumens: 3909 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (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: P227584  
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### Iso-Footcandle Lines of Horizontal Illumination

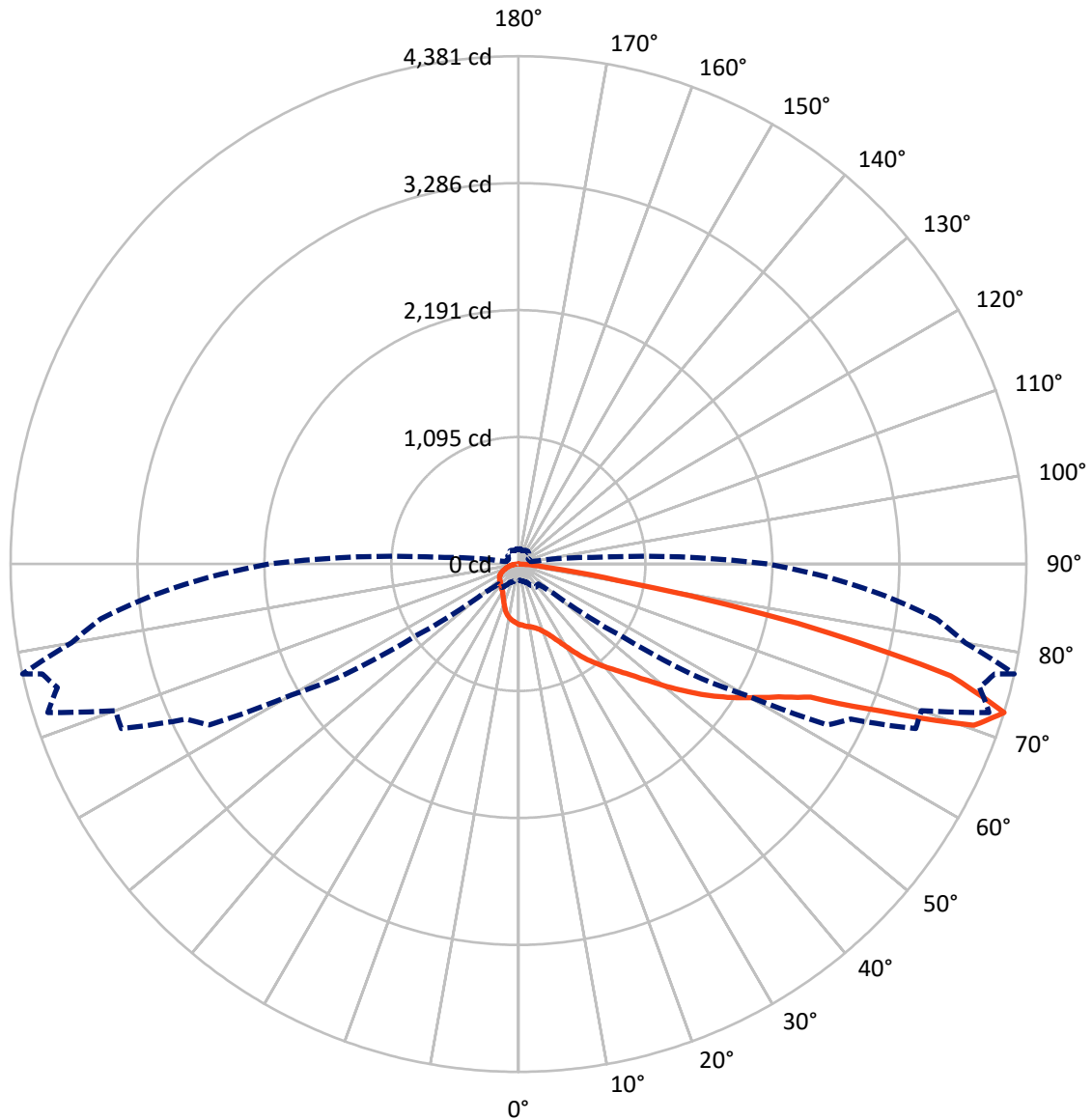
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 647.7    | 0.0    | 647.7  |
|                    | % Fixture | 16.6     | 0.0    | 16.6   |
| <b>Street Side</b> | Lumens    | 3261.3   | 0.0    | 3261.3 |
|                    | % Fixture | 83.4     | 0.0    | 83.4   |
| <b>Total</b>       | Lumens    | 3909.0   | 0.0    | 3909.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.5   | 1.2       |
| 10°-20°   | 148.6  | 3.8       |
| 20°-30°   | 263.9  | 6.8       |
| 30°-40°   | 418.1  | 10.7      |
| 40°-50°   | 627.2  | 16.0      |
| 50°-60°   | 812.8  | 20.8      |
| 60°-70°   | 923.5  | 23.6      |
| 70°-80°   | 612.8  | 15.7      |
| 80°-90°   | 53.6   | 1.4       |
| 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°    | 3909.0 | 100.0     |
| 0°-180°   | 3909.0 | 100.0     |



REPORT NUMBER: P227584

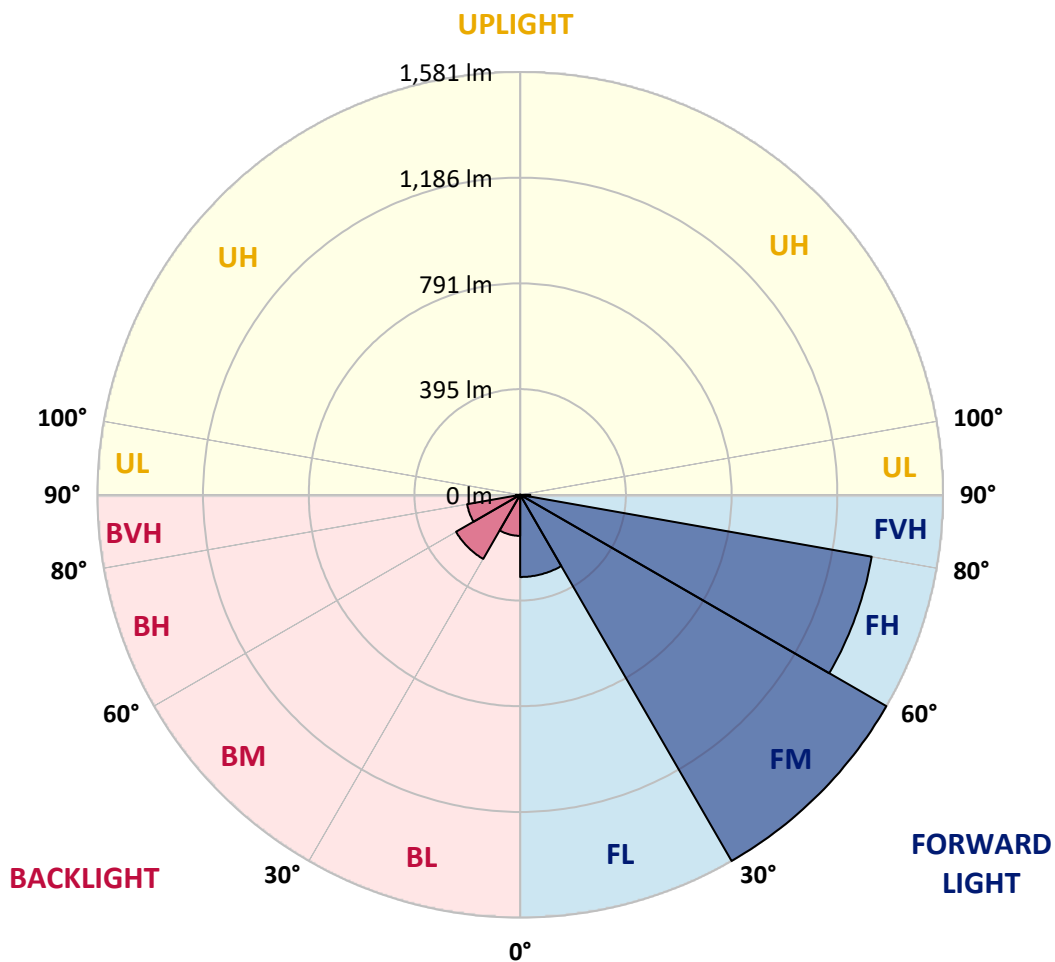
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 307.5  | 7.9       |                         |      |         |
| FM   | (30°-60°)   | 1581.4 | 40.5      |                         |      |         |
| FH   | (60°-80°)   | 1334.9 | 34.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 37.5   | 1.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 153.5  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 276.7  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 201.4  | 5.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 16.1   | 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 II Medium





REPORT NUMBER: P227584

CATALOG NUMBER: ISS-AF-800-LED-E1-T2-8030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 37.5°  | 40°    | 42.5°  | 45°    | 47.5°  | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  |
| 2.5°  | 565.4  | 562.8  | 561.5  | 558.8  | 556.2  | 554.9  | 550.9  | 548.3  | 552.2  | 550.9  | 550.9  |
| 5°    | 607.6  | 605.0  | 601.0  | 597.0  | 591.8  | 587.8  | 583.9  | 579.9  | 582.5  | 579.9  | 577.3  |
| 7.5°  | 641.9  | 639.2  | 633.9  | 630.0  | 624.7  | 619.5  | 614.2  | 612.9  | 610.2  | 606.3  | 605.0  |
| 10°   | 661.6  | 659.0  | 656.4  | 653.7  | 645.8  | 641.9  | 635.3  | 631.3  | 632.6  | 627.4  | 627.4  |
| 12.5° | 680.1  | 677.4  | 676.1  | 676.1  | 669.5  | 665.6  | 662.9  | 659.0  | 661.6  | 653.7  | 651.1  |
| 15°   | 697.2  | 694.6  | 690.6  | 694.6  | 693.3  | 691.9  | 690.6  | 689.3  | 693.3  | 685.3  | 686.7  |
| 17.5° | 724.9  | 723.6  | 715.7  | 710.4  | 711.7  | 715.7  | 718.3  | 717.0  | 717.0  | 713.0  | 714.3  |
| 20°   | 768.4  | 768.4  | 757.8  | 748.6  | 734.1  | 734.1  | 735.4  | 734.1  | 736.8  | 739.4  | 743.3  |
| 22.5° | 801.3  | 798.7  | 794.7  | 786.8  | 771.0  | 757.8  | 757.8  | 752.6  | 756.5  | 757.8  | 765.7  |
| 25°   | 843.5  | 840.9  | 831.6  | 831.6  | 815.8  | 798.7  | 796.1  | 788.2  | 797.4  | 780.2  | 793.4  |
| 27.5° | 894.9  | 892.3  | 880.4  | 875.1  | 867.2  | 846.1  | 840.9  | 842.2  | 851.4  | 826.4  | 839.6  |
| 30°   | 959.5  | 956.9  | 942.4  | 927.9  | 914.7  | 892.3  | 889.6  | 888.3  | 909.4  | 880.4  | 897.5  |
| 32.5° | 1041.2 | 1041.2 | 1025.4 | 1005.6 | 979.3  | 948.9  | 938.4  | 939.7  | 968.7  | 937.1  | 966.1  |
| 35°   | 1165.1 | 1149.3 | 1120.3 | 1090.0 | 1062.3 | 1026.7 | 1012.2 | 1009.6 | 1035.9 | 1004.3 | 1037.3 |
| 37.5° | 1244.2 | 1233.6 | 1207.3 | 1184.9 | 1154.6 | 1120.3 | 1109.7 | 1113.7 | 1136.1 | 1090.0 | 1137.4 |
| 40°   | 1315.3 | 1314.0 | 1296.9 | 1282.4 | 1252.1 | 1217.8 | 1231.0 | 1283.7 | 1343.0 | 1253.4 | 1254.7 |
| 42.5° | 1362.8 | 1365.4 | 1364.1 | 1365.4 | 1348.3 | 1312.7 | 1335.1 | 1408.9 | 1510.4 | 1457.7 | 1408.9 |
| 45°   | 1370.7 | 1379.9 | 1383.9 | 1410.2 | 1427.4 | 1406.3 | 1418.1 | 1495.9 | 1698.9 | 1780.6 | 1560.5 |
| 47.5° | 1390.5 | 1399.7 | 1391.8 | 1423.4 | 1502.5 | 1501.2 | 1548.6 | 1577.6 | 1605.3 | 1618.5 | 1784.5 |
| 50°   | 1416.8 | 1434.0 | 1426.1 | 1452.4 | 1517.0 | 1553.9 | 1594.8 | 1631.7 | 1609.3 | 1526.2 | 1571.0 |
| 52.5° | 1418.1 | 1437.9 | 1481.4 | 1507.8 | 1571.0 | 1563.1 | 1590.8 | 1571.0 | 1605.3 | 1519.6 | 1563.1 |
| 55°   | 1302.2 | 1306.1 | 1432.6 | 1565.8 | 1676.5 | 1654.1 | 1636.9 | 1592.1 | 1635.6 | 1528.9 | 1584.2 |
| 57.5° | 1119.0 | 1132.1 | 1263.9 | 1488.0 | 1725.2 | 1745.0 | 1739.7 | 1735.8 | 1770.0 | 1627.7 | 1688.3 |
| 60°   | 917.3  | 933.1  | 1058.3 | 1321.9 | 1623.8 | 1675.2 | 1746.3 | 1789.8 | 1878.1 | 1821.4 | 1921.6 |
| 62.5° | 572.0  | 583.9  | 722.3  | 1051.7 | 1432.6 | 1534.1 | 1638.2 | 1689.7 | 1817.5 | 1843.9 | 2013.9 |
| 65°   | 272.8  | 276.8  | 330.8  | 572.0  | 1041.2 | 1232.3 | 1386.5 | 1495.9 | 1652.7 | 1771.4 | 2000.7 |
| 67.5° | 212.2  | 213.5  | 233.3  | 304.5  | 533.8  | 661.6  | 836.9  | 981.9  | 1149.3 | 1473.5 | 1758.2 |
| 70°   | 170.0  | 170.0  | 185.8  | 224.1  | 330.8  | 347.9  | 392.8  | 441.5  | 512.7  | 773.7  | 1004.3 |
| 72.5° | 142.3  | 142.3  | 152.9  | 176.6  | 245.1  | 249.1  | 246.5  | 242.5  | 242.5  | 305.8  | 390.1  |
| 75°   | 119.9  | 118.6  | 125.2  | 141.0  | 181.9  | 187.2  | 184.5  | 175.3  | 164.7  | 164.7  | 185.8  |
| 77.5° | 97.5   | 97.5   | 102.8  | 110.7  | 131.8  | 134.4  | 134.4  | 126.5  | 117.3  | 118.6  | 127.8  |
| 80°   | 76.4   | 76.4   | 80.4   | 85.7   | 92.3   | 90.9   | 90.9   | 83.0   | 76.4   | 75.1   | 80.4   |
| 82.5° | 55.4   | 56.7   | 65.9   | 61.9   | 59.3   | 55.4   | 55.4   | 54.0   | 48.8   | 44.8   | 47.4   |
| 85°   | 17.1   | 18.5   | 31.6   | 36.9   | 30.3   | 25.0   | 23.7   | 19.8   | 21.1   | 17.1   | 19.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 0.0    | 0.0    | 0.0    | 1.3    | 0.0    | 1.3    |
| 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: P227584

CATALOG NUMBER: ISS-AF-800-LED-E1-T2-8030

**CANDELA DISTRIBUTION (continued):**

|       | 52.5°  | 55°    | 57.5°  | 60°    | 62.5°  | 65°    | 67.5°  | 70°    | 72.5°  | 75°    | 77°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  |
| 2.5°  | 544.3  | 547.0  | 541.7  | 541.7  | 535.1  | 539.1  | 532.5  | 533.8  | 527.2  | 529.8  | 529.8  |
| 5°    | 570.7  | 572.0  | 565.4  | 562.8  | 556.2  | 556.2  | 549.6  | 549.6  | 540.4  | 543.0  | 540.4  |
| 7.5°  | 595.7  | 595.7  | 589.1  | 583.9  | 577.3  | 574.6  | 566.7  | 562.8  | 554.9  | 553.6  | 549.6  |
| 10°   | 616.8  | 616.8  | 607.6  | 602.3  | 594.4  | 590.5  | 579.9  | 576.0  | 566.7  | 560.1  | 556.2  |
| 12.5° | 643.2  | 640.5  | 630.0  | 624.7  | 611.5  | 610.2  | 594.4  | 591.8  | 578.6  | 574.6  | 568.0  |
| 15°   | 674.8  | 677.4  | 660.3  | 659.0  | 640.5  | 639.2  | 618.1  | 616.8  | 597.0  | 595.7  | 586.5  |
| 17.5° | 709.1  | 714.3  | 699.8  | 698.5  | 676.1  | 676.1  | 651.1  | 649.8  | 623.4  | 622.1  | 610.2  |
| 20°   | 739.4  | 746.0  | 736.8  | 739.4  | 719.6  | 720.9  | 693.3  | 693.3  | 656.4  | 653.7  | 643.2  |
| 22.5° | 767.1  | 780.2  | 772.3  | 786.8  | 767.1  | 776.3  | 739.4  | 746.0  | 702.5  | 697.2  | 681.4  |
| 25°   | 794.7  | 811.9  | 809.2  | 833.0  | 818.5  | 834.3  | 796.1  | 809.2  | 752.6  | 756.5  | 735.4  |
| 27.5° | 822.4  | 844.8  | 842.2  | 876.5  | 871.2  | 902.8  | 869.9  | 884.4  | 822.4  | 826.4  | 802.7  |
| 30°   | 868.5  | 893.6  | 884.4  | 920.0  | 920.0  | 971.4  | 946.3  | 968.7  | 900.2  | 908.1  | 880.4  |
| 32.5° | 930.5  | 959.5  | 931.8  | 977.9  | 975.3  | 1042.5 | 1022.8 | 1061.0 | 993.8  | 1004.3 | 970.0  |
| 35°   | 997.7  | 1043.8 | 999.0  | 1050.4 | 1042.5 | 1112.4 | 1099.2 | 1161.1 | 1090.0 | 1101.8 | 1067.6 |
| 37.5° | 1086.0 | 1141.4 | 1082.1 | 1126.9 | 1091.3 | 1171.7 | 1163.8 | 1248.1 | 1175.6 | 1206.0 | 1165.1 |
| 40°   | 1190.1 | 1233.6 | 1159.8 | 1198.0 | 1138.7 | 1221.8 | 1208.6 | 1324.6 | 1257.4 | 1306.1 | 1269.2 |
| 42.5° | 1286.3 | 1316.7 | 1219.1 | 1266.6 | 1195.4 | 1279.8 | 1256.0 | 1395.7 | 1337.8 | 1412.9 | 1372.0 |
| 45°   | 1373.3 | 1407.6 | 1278.4 | 1331.2 | 1252.1 | 1344.3 | 1303.5 | 1464.3 | 1424.7 | 1538.1 | 1497.2 |
| 47.5° | 1497.2 | 1447.1 | 1332.5 | 1401.0 | 1312.7 | 1414.2 | 1360.2 | 1544.7 | 1530.2 | 1691.0 | 1643.5 |
| 50°   | 1456.4 | 1489.3 | 1377.3 | 1448.5 | 1368.1 | 1492.0 | 1432.6 | 1640.9 | 1644.8 | 1857.0 | 1829.4 |
| 52.5° | 1460.3 | 1515.7 | 1411.6 | 1510.4 | 1432.6 | 1600.0 | 1538.1 | 1756.9 | 1775.3 | 2017.8 | 1979.6 |
| 55°   | 1484.0 | 1565.8 | 1463.0 | 1596.1 | 1523.6 | 1720.0 | 1676.5 | 1882.1 | 1913.7 | 2169.4 | 2147.0 |
| 57.5° | 1543.4 | 1656.7 | 1551.3 | 1725.2 | 1650.1 | 1857.0 | 1817.5 | 2011.2 | 2054.7 | 2321.0 | 2314.4 |
| 60°   | 1771.4 | 1905.8 | 1721.3 | 1913.7 | 1813.5 | 2012.6 | 1959.8 | 2147.0 | 2190.5 | 2465.9 | 2483.1 |
| 62.5° | 2025.7 | 2259.0 | 2149.6 | 2350.0 | 2085.0 | 2286.7 | 2131.2 | 2314.4 | 2317.0 | 2621.5 | 2675.5 |
| 65°   | 2091.6 | 2450.1 | 2543.7 | 2916.7 | 2778.3 | 2985.2 | 2570.1 | 2692.6 | 2534.5 | 2904.8 | 2982.6 |
| 67.5° | 2066.6 | 2505.5 | 2765.1 | 3185.6 | 3342.4 | 3703.5 | 3633.7 | 3591.5 | 3225.1 | 3491.3 | 3584.9 |
| 70°   | 1517.0 | 1982.2 | 2617.5 | 3044.5 | 3496.6 | 3733.8 | 4109.5 | 4147.7 | 4131.9 | 4095.0 | 4156.9 |
| 72.5° | 690.6  | 1083.4 | 1771.4 | 2259.0 | 3005.0 | 3164.5 | 3708.8 | 3698.3 | 4257.1 | 4118.7 | 4216.2 |
| 75°   | 271.5  | 417.8  | 843.5  | 1261.3 | 2078.5 | 2274.8 | 2891.6 | 2738.8 | 3436.0 | 3233.0 | 3441.2 |
| 77.5° | 148.9  | 187.2  | 316.3  | 541.7  | 1134.8 | 1238.9 | 1770.0 | 1514.4 | 2131.2 | 1779.3 | 1849.1 |
| 80°   | 89.6   | 112.0  | 145.0  | 205.6  | 482.4  | 510.1  | 755.2  | 608.9  | 871.2  | 661.6  | 641.9  |
| 82.5° | 48.8   | 60.6   | 72.5   | 101.5  | 179.2  | 199.0  | 261.0  | 234.6  | 279.4  | 238.6  | 233.3  |
| 85°   | 19.8   | 26.4   | 27.7   | 40.9   | 59.3   | 68.5   | 83.0   | 89.6   | 109.4  | 100.2  | 97.5   |
| 87.5° | 0.0    | 1.3    | 0.0    | 2.6    | 0.0    | 2.6    | 0.0    | 4.0    | 4.0    | 6.6    | 7.9    |
| 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: P227584

CATALOG NUMBER: ISS-AF-800-LED-E1-T2-8030

**CANDELA DISTRIBUTION (continued):**

|       | 77.5°  | 80°    | 82.5°  | 85°    | 87.5°  | 90°    | 95°   | 100°  | 102.5° | 105°  | 107.5° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|--------|-------|--------|
| 0°    | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9  | 521.9 | 521.9 | 521.9  | 521.9 | 521.9  |
| 2.5°  | 525.9  | 529.8  | 524.6  | 524.6  | 518.0  | 521.9  | 518.0 | 514.0 | 507.4  | 508.7 | 499.5  |
| 5°    | 535.1  | 537.7  | 531.1  | 528.5  | 524.6  | 523.2  | 515.3 | 507.4 | 498.2  | 498.2 | 487.7  |
| 7.5°  | 544.3  | 544.3  | 535.1  | 535.1  | 525.9  | 523.2  | 511.4 | 498.2 | 485.0  | 483.7 | 467.9  |
| 10°   | 549.6  | 548.3  | 536.4  | 536.4  | 523.2  | 521.9  | 507.4 | 487.7 | 469.2  | 463.9 | 441.5  |
| 12.5° | 560.1  | 558.8  | 544.3  | 541.7  | 524.6  | 524.6  | 503.5 | 477.1 | 450.7  | 441.5 | 409.9  |
| 15°   | 573.3  | 574.6  | 557.5  | 553.6  | 533.8  | 532.5  | 503.5 | 463.9 | 428.3  | 413.8 | 375.6  |
| 17.5° | 594.4  | 595.7  | 572.0  | 568.0  | 544.3  | 540.4  | 504.8 | 448.1 | 398.0  | 382.2 | 347.9  |
| 20°   | 622.1  | 618.1  | 586.5  | 585.2  | 553.6  | 549.6  | 503.5 | 424.4 | 367.7  | 351.9 | 321.6  |
| 22.5° | 656.4  | 652.4  | 611.5  | 607.6  | 570.7  | 564.1  | 502.2 | 399.3 | 340.0  | 322.9 | 303.1  |
| 25°   | 703.8  | 698.5  | 648.4  | 643.2  | 597.0  | 586.5  | 500.8 | 373.0 | 316.3  | 303.1 | 291.3  |
| 27.5° | 763.1  | 752.6  | 691.9  | 686.7  | 624.7  | 611.5  | 495.6 | 342.7 | 292.6  | 283.4 | 278.1  |
| 30°   | 834.3  | 825.1  | 747.3  | 739.4  | 661.6  | 644.5  | 490.3 | 315.0 | 275.5  | 271.5 | 267.6  |
| 32.5° | 918.6  | 909.4  | 814.5  | 805.3  | 709.1  | 684.0  | 481.1 | 292.6 | 264.9  | 264.9 | 259.6  |
| 35°   | 1006.9 | 999.0  | 887.0  | 880.4  | 761.8  | 728.8  | 469.2 | 272.8 | 255.7  | 255.7 | 250.4  |
| 37.5° | 1086.0 | 1092.6 | 966.1  | 960.8  | 814.5  | 773.7  | 456.0 | 259.6 | 247.8  | 245.1 | 239.9  |
| 40°   | 1171.7 | 1187.5 | 1039.9 | 1043.8 | 869.9  | 821.1  | 440.2 | 249.1 | 238.6  | 235.9 | 234.6  |
| 42.5° | 1258.7 | 1289.0 | 1117.6 | 1132.1 | 925.2  | 869.9  | 428.3 | 242.5 | 234.6  | 229.3 | 228.0  |
| 45°   | 1366.7 | 1410.2 | 1213.9 | 1241.5 | 989.8  | 929.2  | 424.4 | 234.6 | 222.7  | 216.1 | 212.2  |
| 47.5° | 1501.2 | 1559.2 | 1332.5 | 1364.1 | 1075.5 | 1000.3 | 432.3 | 232.0 | 214.8  | 206.9 | 199.0  |
| 50°   | 1660.7 | 1716.0 | 1473.5 | 1486.7 | 1171.7 | 1078.1 | 449.4 | 235.9 | 212.2  | 200.3 | 188.5  |
| 52.5° | 1829.4 | 1871.5 | 1622.4 | 1607.9 | 1271.9 | 1154.6 | 469.2 | 237.2 | 205.6  | 193.7 | 179.2  |
| 55°   | 2003.3 | 2027.1 | 1760.8 | 1722.6 | 1362.8 | 1231.0 | 495.6 | 235.9 | 200.3  | 187.2 | 168.7  |
| 57.5° | 2173.3 | 2181.3 | 1883.4 | 1846.5 | 1452.4 | 1321.9 | 528.5 | 232.0 | 192.4  | 179.2 | 159.5  |
| 60°   | 2339.4 | 2352.6 | 2019.1 | 1984.9 | 1549.9 | 1439.2 | 576.0 | 225.4 | 181.9  | 172.7 | 151.6  |
| 62.5° | 2521.3 | 2564.8 | 2181.3 | 2186.5 | 1684.4 | 1622.4 | 665.6 | 217.5 | 171.3  | 160.8 | 139.7  |
| 65°   | 2769.1 | 2935.1 | 2448.8 | 2572.7 | 1942.7 | 1967.7 | 836.9 | 195.1 | 156.8  | 143.7 | 129.2  |
| 67.5° | 3389.8 | 3571.7 | 3098.6 | 3148.7 | 2547.7 | 2398.7 | 945.0 | 166.1 | 138.4  | 129.2 | 119.9  |
| 70°   | 4167.5 | 4037.0 | 3700.9 | 3397.8 | 2900.9 | 2465.9 | 831.6 | 139.7 | 122.6  | 117.3 | 112.0  |
| 72.5° | 4381.0 | 3913.1 | 3636.3 | 3181.6 | 2682.1 | 2150.9 | 636.6 | 119.9 | 109.4  | 106.8 | 102.8  |
| 75°   | 3849.8 | 3172.4 | 3188.2 | 2527.9 | 2223.4 | 1639.6 | 434.9 | 102.8 | 94.9   | 93.6  | 92.3   |
| 77.5° | 2462.0 | 1630.3 | 1984.9 | 1249.4 | 1283.7 | 759.2  | 212.2 | 85.7  | 81.7   | 81.7  | 79.1   |
| 80°   | 875.1  | 543.0  | 614.2  | 394.1  | 358.5  | 241.2  | 114.7 | 68.5  | 65.9   | 67.2  | 65.9   |
| 82.5° | 262.3  | 208.2  | 204.3  | 159.5  | 123.9  | 101.5  | 63.3  | 52.7  | 50.1   | 51.4  | 48.8   |
| 85°   | 105.4  | 81.7   | 68.5   | 52.7   | 43.5   | 39.5   | 34.3  | 35.6  | 31.6   | 34.3  | 30.3   |
| 87.5° | 6.6    | 5.3    | 4.0    | 5.3    | 0.0    | 2.6    | 6.6   | 5.3   | 1.3    | 5.3   | 4.0    |
| 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: P227584

CATALOG NUMBER: ISS-AF-800-LED-E1-T2-8030

**CANDELA DISTRIBUTION (continued):**

|       | 110°  | 112.5° | 115°  | 117.5° | 120°  | 122.5° | 125°  | 127.5° | 130°  | 135°  | 145°  |
|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|
| 0°    | 521.9 | 521.9  | 521.9 | 521.9  | 521.9 | 521.9  | 521.9 | 521.9  | 521.9 | 521.9 | 521.9 |
| 2.5°  | 506.1 | 496.9  | 500.8 | 496.9  | 499.5 | 491.6  | 494.2 | 487.7  | 487.7 | 486.3 | 479.7 |
| 5°    | 489.0 | 479.7  | 478.4 | 469.2  | 470.5 | 460.0  | 458.7 | 446.8  | 446.8 | 436.3 | 416.5 |
| 7.5°  | 465.2 | 450.7  | 449.4 | 431.0  | 429.7 | 415.2  | 409.9 | 396.7  | 395.4 | 383.5 | 371.7 |
| 10°   | 434.9 | 412.5  | 408.6 | 384.9  | 386.2 | 370.4  | 369.0 | 359.8  | 359.8 | 354.5 | 354.5 |
| 12.5° | 400.7 | 375.6  | 373.0 | 354.5  | 355.9 | 345.3  | 346.6 | 341.4  | 344.0 | 346.6 | 355.9 |
| 15°   | 369.0 | 349.3  | 346.6 | 334.8  | 336.1 | 333.4  | 337.4 | 337.4  | 341.4 | 347.9 | 363.8 |
| 17.5° | 342.7 | 325.5  | 326.9 | 321.6  | 326.9 | 325.5  | 333.4 | 332.1  | 340.0 | 347.9 | 367.7 |
| 20°   | 319.0 | 309.7  | 313.7 | 312.4  | 319.0 | 319.0  | 325.5 | 326.9  | 333.4 | 344.0 | 366.4 |
| 22.5° | 303.1 | 300.5  | 304.5 | 304.5  | 309.7 | 311.0  | 317.6 | 321.6  | 325.5 | 336.1 | 355.9 |
| 25°   | 293.9 | 292.6  | 296.5 | 297.9  | 301.8 | 303.1  | 309.7 | 309.7  | 316.3 | 322.9 | 333.4 |
| 27.5° | 280.7 | 278.1  | 283.4 | 283.4  | 288.6 | 287.3  | 295.2 | 292.6  | 299.2 | 301.8 | 304.5 |
| 30°   | 271.5 | 267.6  | 271.5 | 270.2  | 274.1 | 270.2  | 274.1 | 270.2  | 274.1 | 274.1 | 270.2 |
| 32.5° | 262.3 | 258.3  | 259.6 | 254.4  | 258.3 | 253.1  | 254.4 | 249.1  | 251.7 | 249.1 | 250.4 |
| 35°   | 253.1 | 247.8  | 247.8 | 241.2  | 241.2 | 234.6  | 237.2 | 232.0  | 237.2 | 241.2 | 239.9 |
| 37.5° | 239.9 | 235.9  | 235.9 | 230.6  | 233.3 | 230.6  | 235.9 | 233.3  | 234.6 | 229.3 | 220.1 |
| 40°   | 232.0 | 234.6  | 233.3 | 237.2  | 234.6 | 230.6  | 226.7 | 218.8  | 217.5 | 214.8 | 209.6 |
| 42.5° | 220.1 | 222.7  | 216.1 | 221.4  | 217.5 | 218.8  | 216.1 | 212.2  | 209.6 | 206.9 | 201.7 |
| 45°   | 203.0 | 203.0  | 197.7 | 205.6  | 201.7 | 209.6  | 206.9 | 206.9  | 204.3 | 200.3 | 196.4 |
| 47.5° | 188.5 | 189.8  | 184.5 | 191.1  | 188.5 | 199.0  | 197.7 | 201.7  | 201.7 | 199.0 | 188.5 |
| 50°   | 179.2 | 176.6  | 172.7 | 179.2  | 177.9 | 187.2  | 188.5 | 196.4  | 195.1 | 196.4 | 187.2 |
| 52.5° | 171.3 | 166.1  | 162.1 | 166.1  | 166.1 | 174.0  | 176.6 | 185.8  | 187.2 | 189.8 | 184.5 |
| 55°   | 162.1 | 155.5  | 152.9 | 155.5  | 155.5 | 163.4  | 167.4 | 174.0  | 177.9 | 185.8 | 183.2 |
| 57.5° | 154.2 | 145.0  | 142.3 | 145.0  | 146.3 | 154.2  | 158.2 | 164.7  | 170.0 | 180.6 | 179.2 |
| 60°   | 145.0 | 137.1  | 134.4 | 138.4  | 139.7 | 147.6  | 151.6 | 158.2  | 162.1 | 174.0 | 174.0 |
| 62.5° | 134.4 | 127.8  | 127.8 | 129.2  | 131.8 | 139.7  | 142.3 | 151.6  | 152.9 | 167.4 | 168.7 |
| 65°   | 125.2 | 121.3  | 121.3 | 122.6  | 125.2 | 131.8  | 133.1 | 142.3  | 143.7 | 158.2 | 162.1 |
| 67.5° | 117.3 | 114.7  | 114.7 | 116.0  | 117.3 | 122.6  | 123.9 | 133.1  | 135.8 | 148.9 | 155.5 |
| 70°   | 109.4 | 106.8  | 105.4 | 105.4  | 109.4 | 113.3  | 116.0 | 125.2  | 126.5 | 138.4 | 146.3 |
| 72.5° | 100.2 | 97.5   | 97.5  | 96.2   | 100.2 | 102.8  | 108.1 | 113.3  | 116.0 | 127.8 | 133.1 |
| 75°   | 90.9  | 88.3   | 88.3  | 87.0   | 89.6  | 94.9   | 96.2  | 101.5  | 102.8 | 113.3 | 118.6 |
| 77.5° | 79.1  | 76.4   | 76.4  | 76.4   | 79.1  | 80.4   | 81.7  | 87.0   | 89.6  | 98.8  | 104.1 |
| 80°   | 65.9  | 63.3   | 64.6  | 63.3   | 67.2  | 61.9   | 65.9  | 71.2   | 73.8  | 79.1  | 76.4  |
| 82.5° | 50.1  | 46.1   | 47.4  | 47.4   | 48.8  | 44.8   | 47.4  | 50.1   | 52.7  | 56.7  | 55.4  |
| 85°   | 31.6  | 27.7   | 30.3  | 27.7   | 30.3  | 26.4   | 29.0  | 29.0   | 31.6  | 29.0  | 27.7  |
| 87.5° | 6.6   | 2.6    | 6.6   | 2.6    | 7.9   | 0.0    | 4.0   | 0.0    | 2.6   | 1.3   | 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: P227584

CATALOG NUMBER: ISS-AF-800-LED-E1-T2-8030

**CANDELA DISTRIBUTION (continued):**

|       | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 521.9 | 521.9 | 521.9 | 521.9 |
| 2.5°  | 473.2 | 467.9 | 465.2 | 463.9 |
| 5°    | 405.9 | 396.7 | 394.1 | 391.4 |
| 7.5°  | 365.1 | 362.4 | 362.4 | 361.1 |
| 10°   | 357.2 | 361.1 | 362.4 | 362.4 |
| 12.5° | 366.4 | 373.0 | 378.3 | 378.3 |
| 15°   | 378.3 | 390.1 | 396.7 | 396.7 |
| 17.5° | 387.5 | 403.3 | 409.9 | 411.2 |
| 20°   | 388.8 | 404.6 | 413.8 | 415.2 |
| 22.5° | 376.9 | 387.5 | 394.1 | 394.1 |
| 25°   | 346.6 | 351.9 | 355.9 | 355.9 |
| 27.5° | 308.4 | 307.1 | 305.8 | 311.0 |
| 30°   | 268.9 | 266.2 | 261.0 | 266.2 |
| 32.5° | 254.4 | 245.1 | 232.0 | 235.9 |
| 35°   | 232.0 | 229.3 | 222.7 | 224.1 |
| 37.5° | 224.1 | 246.5 | 245.1 | 246.5 |
| 40°   | 214.8 | 242.5 | 241.2 | 243.8 |
| 42.5° | 206.9 | 222.7 | 206.9 | 208.2 |
| 45°   | 192.4 | 199.0 | 185.8 | 185.8 |
| 47.5° | 185.8 | 183.2 | 177.9 | 176.6 |
| 50°   | 180.6 | 180.6 | 177.9 | 175.3 |
| 52.5° | 176.6 | 174.0 | 183.2 | 181.9 |
| 55°   | 171.3 | 168.7 | 175.3 | 175.3 |
| 57.5° | 167.4 | 160.8 | 171.3 | 171.3 |
| 60°   | 163.4 | 156.8 | 167.4 | 167.4 |
| 62.5° | 160.8 | 152.9 | 166.1 | 164.7 |
| 65°   | 156.8 | 148.9 | 166.1 | 163.4 |
| 67.5° | 151.6 | 141.0 | 163.4 | 159.5 |
| 70°   | 141.0 | 131.8 | 154.2 | 143.7 |
| 72.5° | 130.5 | 119.9 | 131.8 | 122.6 |
| 75°   | 114.7 | 105.4 | 106.8 | 105.4 |
| 77.5° | 96.2  | 85.7  | 83.0  | 84.4  |
| 80°   | 72.5  | 65.9  | 63.3  | 63.3  |
| 82.5° | 52.7  | 44.8  | 46.1  | 38.2  |
| 85°   | 23.7  | 17.1  | 13.2  | 13.2  |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)