

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: P140923

Luminaire Tested: **ECM-F03-LED-E1-SL2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140923
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33690)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F03-LED-E1-SL2-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6015.4 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

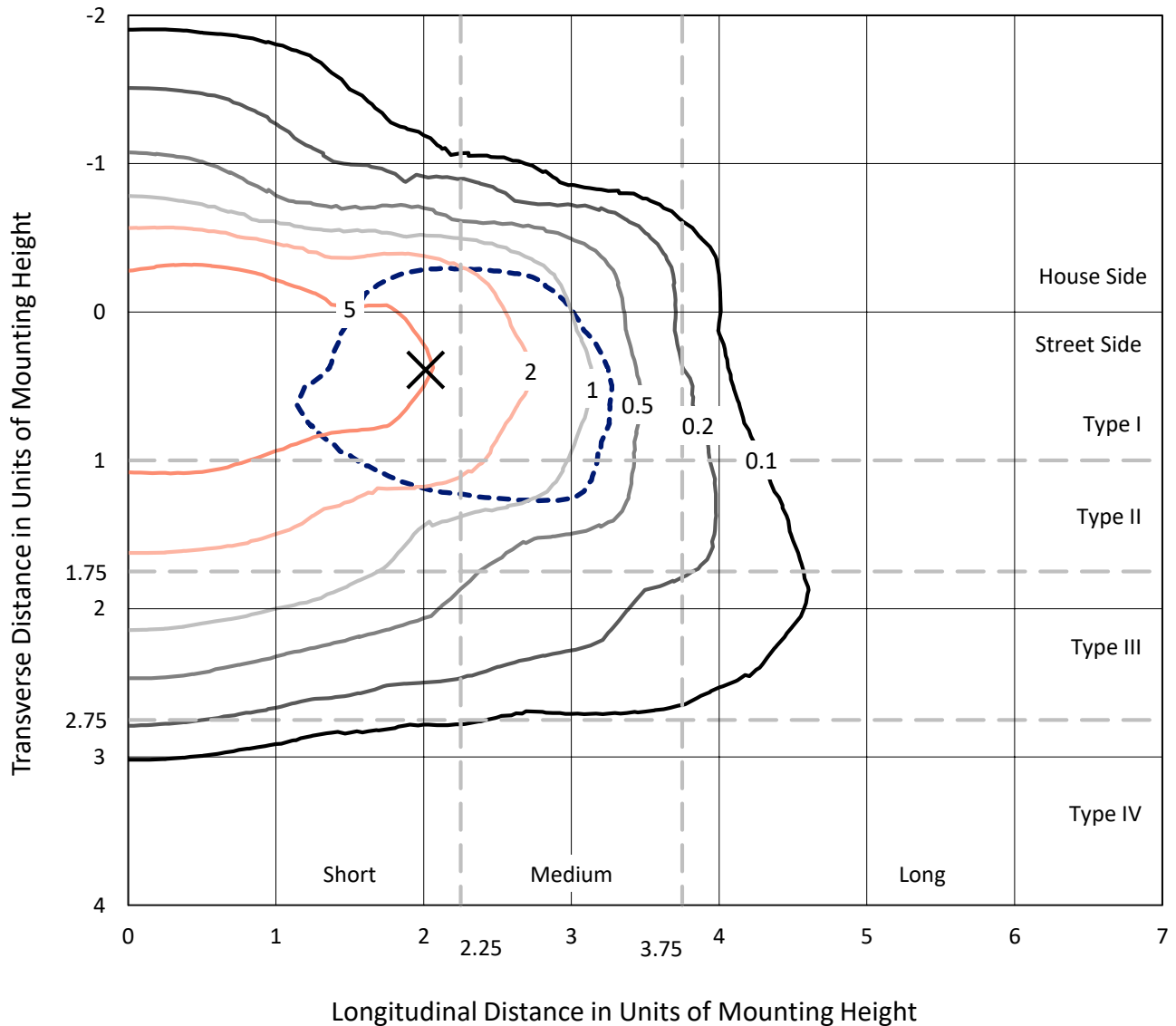
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

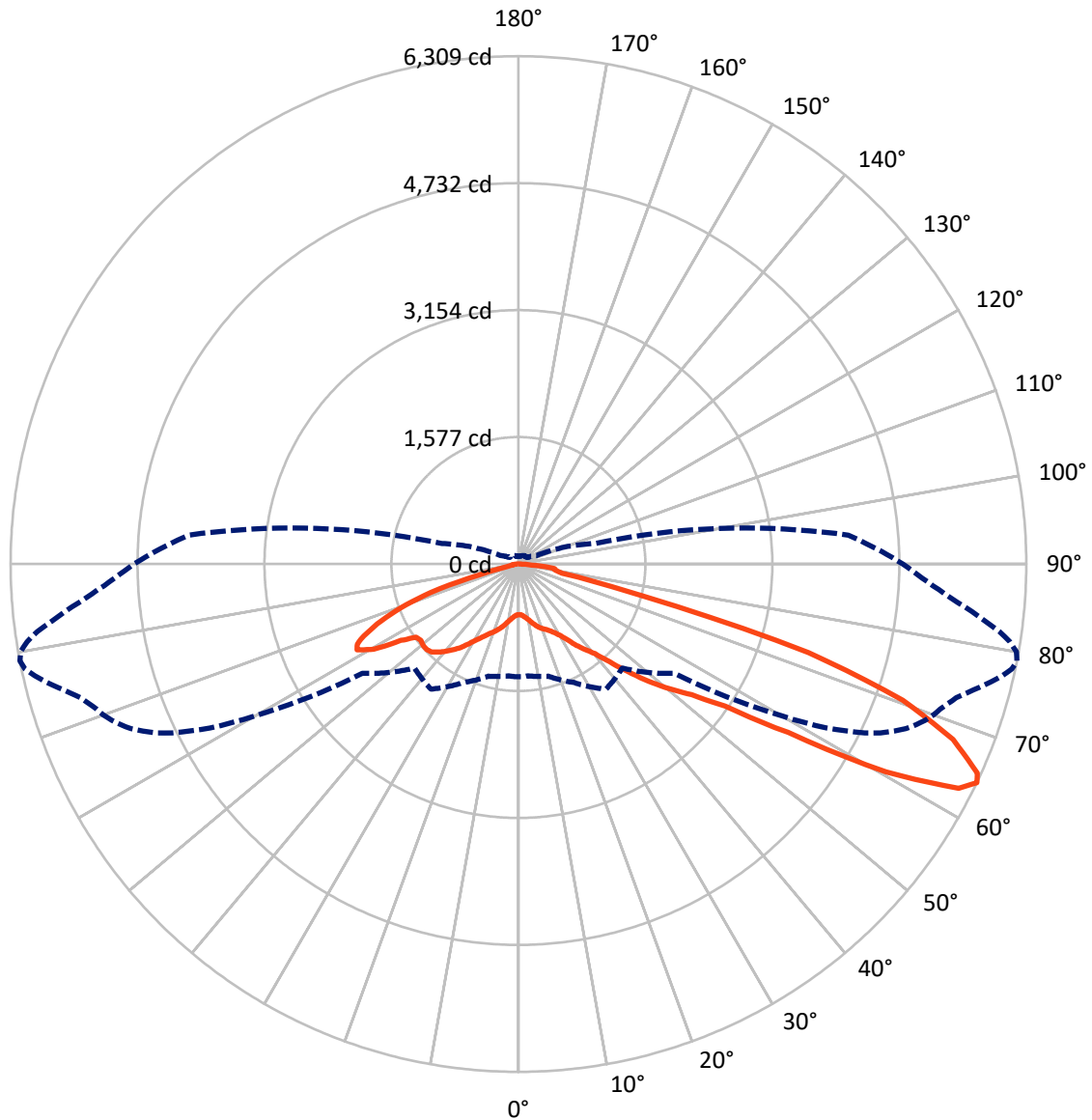
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1433.8 | 0.0 | 1433.8 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 4581.5 | 0.0 | 4581.5 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 6015.4 | 0.0 | 6015.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.3 | 1.0 |
| 10°-20° | 202.1 | 3.4 |
| 20°-30° | 346.9 | 5.8 |
| 30°-40° | 579.8 | 9.6 |
| 40°-50° | 993.3 | 16.5 |
| 50°-60° | 1339.9 | 22.3 |
| 60°-70° | 1694.9 | 28.2 |
| 70°-80° | 676.3 | 11.2 |
| 80°-90° | 120.0 | 2.0 |
| 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° | 6015.4 | 100.0 |
| 0°-180° | 6015.4 | 100.0 |



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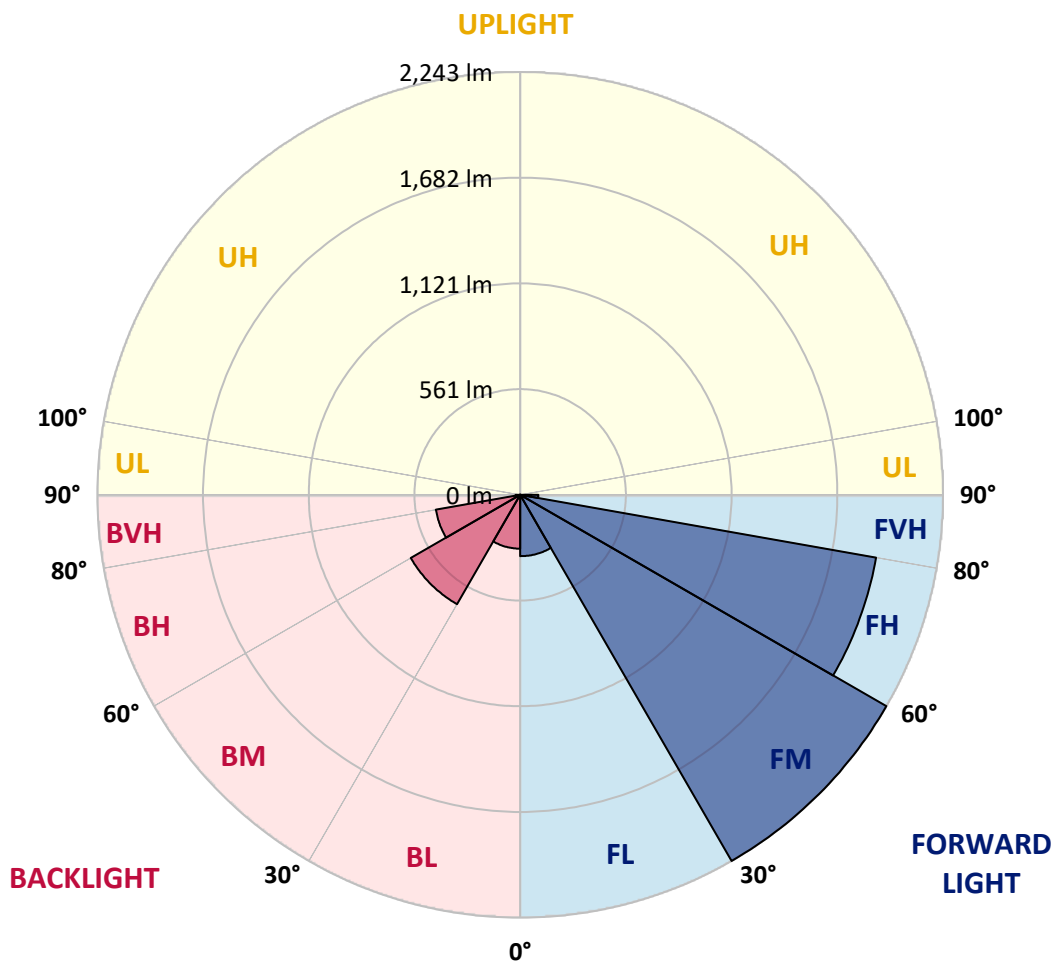
CATALOG NUMBER: ECM-F03-LED-E1-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 325.5 | 5.4 | | | |
| FM | (30°-60°) | 2242.9 | 37.3 | | | |
| FH | (60°-80°) | 1917.0 | 31.9 | | | G2/5000 |
| FVH | (80°-90°) | 96.1 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 285.7 | 4.7 | B1/500 | | |
| BM | (30°-60°) | 670.0 | 11.1 | B1/1000 | | |
| BH | (60°-80°) | 454.2 | 7.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 23.9 | 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-G2

Type II Short





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CATALOG NUMBER: ECM-F03-LED-E1-SL2-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 |
| 2.5° | 626.4 | 627.1 | 626.4 | 628.5 | 629.8 | 631.9 | 631.9 | 631.9 | 631.9 | 631.9 | 631.9 |
| 5° | 625.7 | 626.4 | 625.7 | 629.2 | 632.6 | 636.8 | 641.0 | 642.4 | 642.4 | 643.1 | 643.8 |
| 7.5° | 631.9 | 632.6 | 631.9 | 636.1 | 641.0 | 648.0 | 655.6 | 659.8 | 660.5 | 661.2 | 662.6 |
| 10° | 651.4 | 650.1 | 647.3 | 651.4 | 656.3 | 666.8 | 675.8 | 682.8 | 684.9 | 685.6 | 688.4 |
| 12.5° | 677.2 | 676.5 | 671.7 | 669.6 | 672.3 | 684.2 | 700.9 | 710.7 | 712.8 | 713.5 | 716.2 |
| 15° | 696.7 | 694.6 | 690.5 | 687.7 | 692.6 | 705.1 | 727.4 | 739.9 | 744.1 | 744.8 | 749.7 |
| 17.5° | 709.3 | 707.9 | 700.9 | 698.8 | 706.5 | 726.0 | 753.9 | 769.2 | 772.0 | 774.1 | 779.6 |
| 20° | 730.2 | 726.0 | 715.5 | 706.5 | 712.8 | 742.7 | 775.5 | 791.5 | 795.7 | 797.8 | 802.6 |
| 22.5° | 758.0 | 754.6 | 742.0 | 719.0 | 719.0 | 752.5 | 795.0 | 813.1 | 816.6 | 820.8 | 826.3 |
| 25° | 806.1 | 803.3 | 779.0 | 739.9 | 730.2 | 762.2 | 813.1 | 837.5 | 841.0 | 845.8 | 854.2 |
| 27.5° | 855.6 | 852.1 | 824.9 | 772.7 | 749.7 | 780.3 | 839.6 | 868.8 | 873.7 | 879.3 | 889.0 |
| 30° | 919.0 | 912.7 | 885.6 | 824.9 | 788.0 | 809.6 | 881.4 | 918.3 | 923.9 | 930.8 | 944.1 |
| 32.5° | 1061.1 | 1063.9 | 1014.4 | 950.3 | 885.6 | 876.5 | 946.2 | 991.5 | 999.8 | 1008.9 | 1027.0 |
| 35° | 1292.4 | 1281.3 | 1263.2 | 1197.7 | 1125.9 | 1054.9 | 1072.3 | 1121.0 | 1130.1 | 1132.9 | 1140.6 |
| 37.5° | 1440.2 | 1446.4 | 1461.1 | 1461.1 | 1407.4 | 1377.4 | 1328.0 | 1304.3 | 1306.4 | 1309.2 | 1302.9 |
| 40° | 1522.4 | 1535.6 | 1585.8 | 1653.4 | 1702.1 | 1729.3 | 1720.9 | 1610.2 | 1596.9 | 1579.5 | 1523.8 |
| 42.5° | 1581.6 | 1594.8 | 1680.5 | 1810.1 | 1931.4 | 2027.5 | 2080.5 | 1993.4 | 1983.6 | 1941.8 | 1874.9 |
| 45° | 1617.8 | 1628.3 | 1731.4 | 1915.3 | 2098.6 | 2262.3 | 2407.2 | 2376.6 | 2373.8 | 2338.2 | 2250.5 |
| 47.5° | 1610.9 | 1619.9 | 1727.2 | 1948.8 | 2189.1 | 2411.4 | 2635.8 | 2691.5 | 2694.3 | 2685.2 | 2631.6 |
| 50° | 1507.7 | 1529.3 | 1635.9 | 1874.9 | 2139.0 | 2469.2 | 2783.5 | 2929.1 | 2933.3 | 2941.6 | 2920.7 |
| 52.5° | 1415.8 | 1432.5 | 1527.9 | 1741.8 | 1995.5 | 2412.1 | 2871.9 | 3103.3 | 3138.8 | 3159.0 | 3198.0 |
| 55° | 1378.1 | 1387.9 | 1461.1 | 1642.9 | 1877.0 | 2259.5 | 2901.9 | 3229.4 | 3292.8 | 3331.1 | 3420.3 |
| 57.5° | 1371.2 | 1378.8 | 1435.3 | 1573.9 | 1798.3 | 2102.1 | 2892.1 | 3398.7 | 3499.0 | 3571.5 | 3744.3 |
| 60° | 1417.9 | 1424.8 | 1464.5 | 1580.9 | 1743.9 | 1987.1 | 2803.0 | 3621.6 | 3762.4 | 3957.5 | 4236.2 |
| 62.5° | 1452.7 | 1456.2 | 1504.9 | 1668.0 | 1803.8 | 1874.9 | 2575.8 | 3777.7 | 4027.8 | 4275.9 | 4690.4 |
| 64° | 1401.8 | 1394.9 | 1442.9 | 1622.7 | 1896.5 | 1826.8 | 2365.4 | 3770.0 | 4063.4 | 4338.6 | 4787.3 |
| 65° | 1327.3 | 1332.2 | 1375.4 | 1534.2 | 1880.5 | 1824.8 | 2227.5 | 3686.4 | 3990.9 | 4282.8 | 4742.0 |
| 67.5° | 1031.2 | 1050.0 | 1061.8 | 1207.4 | 1540.5 | 1884.0 | 1865.2 | 3154.1 | 3460.0 | 3738.7 | 4281.4 |
| 70° | 554.6 | 552.5 | 579.0 | 693.9 | 1071.6 | 1599.0 | 1600.4 | 2223.3 | 2561.9 | 2908.2 | 3448.1 |
| 72.5° | 204.1 | 214.6 | 235.5 | 317.0 | 556.7 | 1153.8 | 1466.6 | 1541.9 | 1693.1 | 1968.3 | 2547.3 |
| 75° | 117.1 | 118.4 | 122.6 | 149.1 | 268.2 | 636.8 | 1362.8 | 1364.2 | 1375.4 | 1420.6 | 1735.6 |
| 77.5° | 91.3 | 88.5 | 90.6 | 96.8 | 146.3 | 335.1 | 1093.2 | 1295.9 | 1294.5 | 1287.6 | 1333.6 |
| 80° | 68.3 | 71.1 | 75.2 | 75.2 | 90.6 | 179.8 | 621.5 | 1153.1 | 1192.1 | 1221.4 | 1238.1 |
| 82.5° | 55.0 | 57.1 | 67.6 | 67.6 | 66.2 | 101.7 | 293.3 | 854.2 | 976.8 | 1056.3 | 1179.6 |
| 85° | 35.5 | 37.6 | 57.1 | 56.4 | 53.6 | 59.9 | 153.3 | 286.4 | 308.7 | 376.2 | 535.1 |
| 87.5° | 9.8 | 11.8 | 26.5 | 23.0 | 27.9 | 22.3 | 57.1 | 87.1 | 107.3 | 121.2 | 152.6 |
| 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: ECM-F03-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 |
| 2.5° | 631.9 | 631.9 | 631.9 | 632.6 | 632.6 | 632.6 | 632.6 | 632.6 | 633.3 | 631.9 | 631.9 |
| 5° | 644.5 | 643.8 | 644.5 | 644.5 | 646.6 | 645.9 | 646.6 | 646.6 | 645.9 | 647.3 | 647.3 |
| 7.5° | 664.7 | 663.3 | 664.7 | 665.4 | 666.1 | 668.9 | 668.9 | 670.3 | 671.0 | 671.7 | 670.3 |
| 10° | 689.1 | 691.2 | 691.9 | 691.9 | 695.3 | 696.7 | 696.7 | 698.8 | 700.9 | 702.3 | 701.6 |
| 12.5° | 719.0 | 720.4 | 721.1 | 725.3 | 726.0 | 728.1 | 731.6 | 733.7 | 733.7 | 737.1 | 739.2 |
| 15° | 752.5 | 753.9 | 758.0 | 759.4 | 762.2 | 765.7 | 767.8 | 769.9 | 769.9 | 776.2 | 778.3 |
| 17.5° | 781.0 | 783.8 | 786.6 | 788.7 | 793.6 | 797.1 | 800.5 | 802.6 | 806.1 | 808.9 | 813.8 |
| 20° | 805.4 | 808.9 | 812.4 | 816.6 | 820.1 | 823.5 | 827.7 | 830.5 | 834.7 | 838.9 | 843.7 |
| 22.5° | 829.1 | 833.3 | 837.5 | 841.0 | 845.8 | 849.3 | 852.8 | 857.7 | 860.5 | 864.6 | 870.2 |
| 25° | 854.9 | 861.9 | 866.0 | 870.9 | 875.8 | 880.7 | 884.9 | 889.0 | 893.2 | 898.8 | 904.4 |
| 27.5° | 896.0 | 899.5 | 905.1 | 907.8 | 916.2 | 921.8 | 927.4 | 928.1 | 933.6 | 944.1 | 945.5 |
| 30° | 949.7 | 955.9 | 959.4 | 969.2 | 970.6 | 972.6 | 981.7 | 988.0 | 994.9 | 1003.3 | 1006.8 |
| 32.5° | 1030.5 | 1036.0 | 1040.9 | 1043.7 | 1051.4 | 1063.9 | 1065.3 | 1070.9 | 1082.7 | 1084.8 | 1097.4 |
| 35° | 1148.9 | 1150.3 | 1158.0 | 1162.2 | 1171.9 | 1178.9 | 1182.4 | 1187.2 | 1193.5 | 1208.1 | 1211.6 |
| 37.5° | 1291.1 | 1302.9 | 1293.1 | 1283.4 | 1300.8 | 1298.7 | 1302.9 | 1297.3 | 1314.0 | 1314.7 | 1321.0 |
| 40° | 1511.9 | 1507.0 | 1486.1 | 1463.8 | 1453.4 | 1447.1 | 1434.6 | 1431.8 | 1440.8 | 1436.7 | 1438.8 |
| 42.5° | 1837.3 | 1791.3 | 1755.8 | 1729.3 | 1696.6 | 1661.0 | 1640.8 | 1610.2 | 1610.2 | 1601.1 | 1609.5 |
| 45° | 2219.8 | 2168.2 | 2102.1 | 2039.3 | 1998.9 | 1952.3 | 1904.2 | 1872.1 | 1839.4 | 1815.0 | 1836.6 |
| 47.5° | 2596.7 | 2561.9 | 2488.0 | 2430.2 | 2349.4 | 2279.7 | 2203.8 | 2137.6 | 2098.6 | 2070.0 | 2074.2 |
| 50° | 2924.2 | 2892.1 | 2853.8 | 2775.8 | 2714.5 | 2643.4 | 2563.3 | 2476.2 | 2391.9 | 2357.8 | 2328.5 |
| 52.5° | 3200.1 | 3189.0 | 3156.2 | 3120.0 | 3069.8 | 2993.9 | 2943.0 | 2860.1 | 2760.5 | 2688.7 | 2658.0 |
| 55° | 3444.0 | 3463.5 | 3480.9 | 3473.2 | 3455.1 | 3445.4 | 3382.7 | 3326.2 | 3258.6 | 3237.7 | 3174.3 |
| 57.5° | 3827.9 | 3884.3 | 3951.2 | 3988.1 | 4024.3 | 4107.3 | 4127.5 | 4105.9 | 4114.2 | 4108.6 | 4075.2 |
| 60° | 4371.3 | 4507.9 | 4624.9 | 4718.3 | 4817.9 | 4914.8 | 5029.0 | 5104.3 | 5135.6 | 5256.9 | 5254.8 |
| 62.5° | 4837.4 | 5019.3 | 5169.1 | 5281.3 | 5397.6 | 5485.4 | 5559.3 | 5634.5 | 5726.5 | 5814.3 | 5925.0 |
| 64° | 4964.2 | 5107.1 | 5229.0 | 5329.3 | 5412.9 | 5484.7 | 5541.1 | 5610.1 | 5686.1 | 5799.6 | 5922.3 |
| 65° | 4898.7 | 5059.7 | 5148.2 | 5238.8 | 5314.0 | 5369.7 | 5427.6 | 5490.3 | 5586.4 | 5676.3 | 5807.3 |
| 67.5° | 4453.5 | 4575.5 | 4703.7 | 4788.0 | 4860.4 | 4893.2 | 4947.5 | 4999.8 | 5053.4 | 5144.0 | 5307.7 |
| 70° | 3755.4 | 3892.0 | 4076.6 | 4156.0 | 4231.3 | 4243.1 | 4294.0 | 4333.0 | 4368.5 | 4489.1 | 4569.9 |
| 72.5° | 2817.6 | 3082.4 | 3263.5 | 3402.9 | 3418.2 | 3477.4 | 3498.3 | 3514.3 | 3554.7 | 3577.0 | 3601.4 |
| 75° | 1941.8 | 2180.1 | 2334.1 | 2387.0 | 2451.8 | 2420.5 | 2384.2 | 2256.7 | 2257.4 | 2149.4 | 2026.8 |
| 77.5° | 1366.3 | 1403.2 | 1404.6 | 1405.3 | 1319.6 | 1269.5 | 1212.3 | 1139.2 | 1110.6 | 1053.5 | 975.4 |
| 80° | 1238.8 | 1234.6 | 1208.8 | 1177.5 | 1130.8 | 1063.9 | 994.9 | 946.9 | 909.2 | 866.7 | 811.0 |
| 82.5° | 1195.6 | 1205.4 | 1186.5 | 1160.1 | 1132.9 | 1066.7 | 987.3 | 912.0 | 850.0 | 782.4 | 714.2 |
| 85° | 582.5 | 599.2 | 653.5 | 689.1 | 697.4 | 656.3 | 599.9 | 531.6 | 466.1 | 392.3 | 358.1 |
| 87.5° | 174.9 | 187.4 | 191.6 | 203.4 | 218.1 | 198.6 | 174.9 | 156.8 | 126.1 | 109.4 | 85.7 |
| 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: ECM-F03-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 |
| 2.5° | 631.9 | 632.6 | 632.6 | 631.9 | 632.6 | 632.6 | 633.3 | 632.6 | 632.6 | 632.6 | 631.9 |
| 5° | 645.9 | 648.7 | 648.0 | 648.0 | 649.4 | 649.4 | 648.7 | 650.1 | 649.4 | 649.4 | 648.7 |
| 7.5° | 672.3 | 672.3 | 674.4 | 675.1 | 673.7 | 673.7 | 675.1 | 675.8 | 677.2 | 677.9 | 677.9 |
| 10° | 703.0 | 706.5 | 706.5 | 707.2 | 707.9 | 710.0 | 710.7 | 710.7 | 712.1 | 712.1 | 713.5 |
| 12.5° | 740.6 | 742.0 | 743.4 | 746.9 | 747.6 | 747.6 | 751.1 | 750.4 | 750.4 | 753.9 | 754.6 |
| 15° | 781.0 | 783.1 | 786.6 | 788.0 | 789.4 | 792.9 | 795.0 | 797.1 | 796.4 | 801.2 | 802.6 |
| 17.5° | 816.6 | 818.7 | 822.8 | 826.3 | 828.4 | 830.5 | 831.9 | 834.7 | 838.9 | 842.4 | 843.1 |
| 20° | 845.1 | 847.9 | 852.8 | 857.0 | 860.5 | 862.6 | 868.1 | 870.9 | 872.3 | 875.1 | 878.6 |
| 22.5° | 873.0 | 877.9 | 882.8 | 884.2 | 891.8 | 893.9 | 898.1 | 902.3 | 905.1 | 911.3 | 913.4 |
| 25° | 907.8 | 912.0 | 918.3 | 922.5 | 927.4 | 931.5 | 935.7 | 939.2 | 945.5 | 951.0 | 953.8 |
| 27.5° | 953.8 | 957.3 | 962.2 | 969.9 | 974.0 | 976.8 | 984.5 | 991.5 | 994.2 | 999.8 | 1004.7 |
| 30° | 1014.4 | 1017.9 | 1024.9 | 1032.6 | 1036.0 | 1045.1 | 1050.7 | 1055.6 | 1061.1 | 1068.8 | 1075.8 |
| 32.5° | 1102.9 | 1107.1 | 1113.4 | 1123.1 | 1123.1 | 1129.4 | 1141.3 | 1151.7 | 1155.9 | 1164.9 | 1169.8 |
| 35° | 1219.3 | 1220.0 | 1227.0 | 1241.6 | 1245.8 | 1244.4 | 1255.5 | 1265.3 | 1268.1 | 1282.0 | 1291.1 |
| 37.5° | 1332.2 | 1334.2 | 1342.6 | 1348.2 | 1355.8 | 1361.4 | 1369.1 | 1383.7 | 1383.7 | 1403.9 | 1412.3 |
| 40° | 1449.2 | 1459.7 | 1461.1 | 1462.4 | 1475.0 | 1497.3 | 1504.9 | 1519.6 | 1532.8 | 1552.3 | 1561.4 |
| 42.5° | 1619.2 | 1630.4 | 1643.6 | 1658.9 | 1677.7 | 1690.3 | 1704.9 | 1725.8 | 1731.4 | 1755.8 | 1762.0 |
| 45° | 1851.9 | 1865.2 | 1900.7 | 1904.2 | 1937.6 | 1954.3 | 1978.7 | 2006.6 | 2013.6 | 2029.6 | 2021.2 |
| 47.5° | 2083.9 | 2099.3 | 2138.3 | 2178.7 | 2209.3 | 2238.6 | 2245.6 | 2257.4 | 2267.9 | 2258.1 | 2260.9 |
| 50° | 2341.0 | 2363.3 | 2400.3 | 2435.8 | 2458.8 | 2492.2 | 2492.2 | 2495.0 | 2485.3 | 2469.2 | 2443.5 |
| 52.5° | 2642.0 | 2645.5 | 2669.2 | 2697.1 | 2718.0 | 2724.9 | 2724.9 | 2708.9 | 2685.2 | 2659.4 | 2609.3 |
| 55° | 3144.4 | 3106.0 | 3113.0 | 3113.0 | 3097.7 | 3085.1 | 3075.4 | 3036.4 | 2989.7 | 2943.0 | 2897.0 |
| 57.5° | 4049.4 | 4085.7 | 3977.7 | 3948.4 | 3949.8 | 3854.3 | 3815.3 | 3748.4 | 3698.3 | 3614.7 | 3544.3 |
| 60° | 5340.5 | 5315.4 | 5279.9 | 5246.4 | 5249.2 | 5123.1 | 5034.6 | 4935.0 | 4847.9 | 4663.9 | 4585.9 |
| 62.5° | 6024.0 | 6113.2 | 6164.0 | 6138.2 | 6079.0 | 6000.3 | 5855.4 | 5704.2 | 5550.9 | 5394.8 | 5254.8 |
| 64° | 6049.1 | 6166.8 | 6267.1 | 6308.9 | 6281.1 | 6181.4 | 6033.7 | 5845.6 | 5663.1 | 5479.1 | 5309.8 |
| 65° | 5927.8 | 6076.9 | 6206.5 | 6265.0 | 6266.4 | 6178.7 | 6030.9 | 5841.4 | 5646.3 | 5433.1 | 5256.9 |
| 67.5° | 5424.8 | 5596.2 | 5723.7 | 5821.9 | 5906.2 | 5861.6 | 5759.2 | 5557.9 | 5373.2 | 5131.5 | 4938.5 |
| 70° | 4670.2 | 4776.1 | 4919.6 | 5063.2 | 5130.8 | 5141.2 | 5102.9 | 5001.2 | 4785.2 | 4588.7 | 4340.0 |
| 72.5° | 3599.3 | 3763.8 | 3679.5 | 3767.9 | 3824.4 | 3769.3 | 3776.3 | 3602.8 | 3533.1 | 3360.4 | 3185.5 |
| 75° | 1906.3 | 1911.8 | 1875.6 | 1612.2 | 1579.5 | 1459.0 | 1592.7 | 1353.8 | 1272.2 | 1197.0 | 1100.1 |
| 77.5° | 884.2 | 769.9 | 663.3 | 553.9 | 452.9 | 396.4 | 309.4 | 272.4 | 245.3 | 216.0 | 222.3 |
| 80° | 739.2 | 651.4 | 558.1 | 462.6 | 388.8 | 314.2 | 252.2 | 195.8 | 156.8 | 131.7 | 119.8 |
| 82.5° | 654.2 | 576.9 | 512.1 | 453.6 | 400.6 | 327.5 | 268.9 | 207.6 | 159.6 | 120.5 | 93.4 |
| 85° | 295.4 | 231.3 | 210.4 | 165.8 | 140.7 | 119.8 | 95.5 | 78.7 | 64.8 | 55.0 | 43.2 |
| 87.5° | 69.0 | 47.4 | 40.4 | 38.3 | 33.4 | 31.4 | 26.5 | 27.9 | 23.0 | 18.1 | 18.8 |
| 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: P140923

CATALOG NUMBER: ECM-F03-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 | 629.2 |
| 2.5° | 631.9 | 631.9 | 632.6 | 632.6 | 633.3 | 634.7 | 636.8 | 634.7 | 634.7 | 634.7 | 635.4 |
| 5° | 650.1 | 650.8 | 650.1 | 650.1 | 651.4 | 653.5 | 654.2 | 650.1 | 648.0 | 645.9 | 643.1 |
| 7.5° | 676.5 | 679.3 | 678.6 | 678.6 | 680.0 | 680.0 | 678.6 | 672.3 | 666.1 | 656.3 | 648.0 |
| 10° | 713.5 | 714.9 | 714.9 | 714.9 | 716.9 | 718.3 | 712.1 | 698.1 | 681.4 | 664.0 | 648.7 |
| 12.5° | 757.4 | 756.7 | 758.7 | 760.8 | 759.4 | 759.4 | 747.6 | 726.0 | 698.8 | 670.3 | 643.8 |
| 15° | 803.3 | 804.0 | 804.0 | 807.5 | 808.2 | 805.4 | 786.6 | 753.2 | 711.4 | 668.2 | 625.7 |
| 17.5° | 846.5 | 847.9 | 848.6 | 851.4 | 854.9 | 847.2 | 820.1 | 774.8 | 713.5 | 648.7 | 591.5 |
| 20° | 882.8 | 884.9 | 886.9 | 889.0 | 892.5 | 886.9 | 850.7 | 785.2 | 702.3 | 617.3 | 551.8 |
| 22.5° | 915.5 | 919.0 | 920.4 | 923.9 | 929.4 | 922.5 | 878.6 | 785.2 | 677.2 | 583.2 | 507.2 |
| 25° | 955.2 | 959.4 | 966.4 | 967.8 | 977.5 | 969.9 | 900.9 | 779.6 | 648.7 | 540.0 | 459.1 |
| 27.5° | 1007.5 | 1011.7 | 1017.9 | 1021.4 | 1033.3 | 1022.8 | 917.6 | 765.0 | 613.1 | 493.3 | 412.5 |
| 30° | 1076.5 | 1080.6 | 1088.3 | 1091.8 | 1113.4 | 1078.5 | 928.7 | 742.7 | 572.0 | 438.9 | 358.8 |
| 32.5° | 1172.6 | 1183.8 | 1183.1 | 1192.1 | 1211.6 | 1140.6 | 933.6 | 711.4 | 520.5 | 383.9 | 308.7 |
| 35° | 1298.7 | 1306.4 | 1313.3 | 1325.9 | 1334.9 | 1206.7 | 930.1 | 670.3 | 456.4 | 326.8 | 264.8 |
| 37.5° | 1419.9 | 1433.2 | 1438.1 | 1446.4 | 1444.3 | 1251.3 | 916.2 | 606.2 | 386.7 | 275.9 | 234.8 |
| 40° | 1571.1 | 1578.8 | 1594.1 | 1601.8 | 1564.9 | 1293.8 | 883.5 | 520.5 | 317.0 | 242.5 | 215.3 |
| 42.5° | 1772.5 | 1782.2 | 1774.6 | 1772.5 | 1701.4 | 1317.5 | 820.8 | 434.8 | 265.5 | 218.1 | 199.3 |
| 45° | 2017.0 | 2021.2 | 1998.2 | 1982.9 | 1858.9 | 1315.4 | 729.5 | 353.9 | 229.9 | 200.0 | 185.3 |
| 47.5° | 2237.9 | 2229.6 | 2199.6 | 2176.6 | 1995.5 | 1266.7 | 615.2 | 291.9 | 211.1 | 185.3 | 174.2 |
| 50° | 2420.5 | 2383.5 | 2351.5 | 2322.2 | 2104.8 | 1192.1 | 505.8 | 245.9 | 193.0 | 173.5 | 163.0 |
| 52.5° | 2585.6 | 2535.4 | 2497.8 | 2448.3 | 2204.5 | 1093.9 | 418.7 | 214.6 | 174.9 | 161.6 | 151.2 |
| 55° | 2830.1 | 2771.6 | 2723.5 | 2674.8 | 2380.7 | 1017.2 | 362.3 | 190.9 | 156.8 | 149.1 | 139.3 |
| 57.5° | 3531.8 | 3375.0 | 3332.5 | 3288.6 | 2853.1 | 1000.5 | 329.6 | 172.1 | 142.8 | 137.3 | 131.0 |
| 60° | 4491.2 | 4389.4 | 4321.2 | 4213.9 | 3637.7 | 1054.2 | 305.2 | 158.2 | 133.1 | 129.6 | 124.0 |
| 62.5° | 5116.8 | 4994.2 | 4881.3 | 4771.9 | 4098.2 | 1052.8 | 275.2 | 149.1 | 127.5 | 126.8 | 118.4 |
| 64° | 5156.5 | 5019.3 | 4893.2 | 4775.4 | 4112.8 | 983.8 | 248.0 | 142.8 | 127.5 | 127.5 | 115.0 |
| 65° | 5091.0 | 4953.1 | 4822.8 | 4700.2 | 4029.2 | 930.8 | 229.9 | 140.0 | 129.6 | 128.9 | 112.9 |
| 67.5° | 4757.3 | 4618.7 | 4472.3 | 4340.7 | 3675.3 | 729.5 | 181.8 | 135.2 | 140.7 | 135.9 | 110.8 |
| 70° | 4167.2 | 4009.7 | 3899.6 | 3804.9 | 3154.8 | 509.3 | 144.2 | 138.0 | 154.0 | 144.2 | 116.4 |
| 72.5° | 3020.3 | 2892.1 | 2890.8 | 2783.5 | 2388.4 | 323.3 | 116.4 | 137.3 | 153.3 | 142.8 | 120.5 |
| 75° | 1173.3 | 1006.1 | 1000.5 | 1038.1 | 1015.8 | 174.9 | 100.3 | 121.2 | 125.4 | 119.1 | 106.6 |
| 77.5° | 200.7 | 197.2 | 195.1 | 205.5 | 226.4 | 96.8 | 92.0 | 103.1 | 93.4 | 84.3 | 88.5 |
| 80° | 111.5 | 106.6 | 105.2 | 105.2 | 98.9 | 79.4 | 81.5 | 82.2 | 67.6 | 62.7 | 73.2 |
| 82.5° | 77.3 | 71.8 | 69.0 | 66.9 | 64.8 | 71.1 | 72.5 | 64.8 | 48.8 | 48.1 | 68.3 |
| 85° | 37.6 | 35.5 | 34.8 | 34.8 | 39.7 | 66.9 | 59.9 | 50.2 | 32.7 | 32.7 | 73.9 |
| 87.5° | 16.0 | 16.0 | 13.9 | 13.9 | 21.6 | 42.5 | 27.2 | 20.9 | 13.2 | 15.3 | 30.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 165° | 175° | 180° |
|-------|-------|-------|-------|
| 0° | 629.2 | 629.2 | 629.2 |
| 2.5° | 634.7 | 636.1 | 635.4 |
| 5° | 639.6 | 639.6 | 638.2 |
| 7.5° | 638.9 | 636.1 | 634.7 |
| 10° | 634.7 | 627.1 | 626.4 |
| 12.5° | 623.6 | 611.0 | 607.6 |
| 15° | 591.5 | 574.8 | 570.6 |
| 17.5° | 551.1 | 531.6 | 526.0 |
| 20° | 505.1 | 482.8 | 475.2 |
| 22.5° | 460.5 | 434.8 | 427.1 |
| 25° | 411.8 | 386.0 | 381.8 |
| 27.5° | 358.1 | 333.7 | 327.5 |
| 30° | 308.7 | 287.8 | 282.9 |
| 32.5° | 264.1 | 249.4 | 249.4 |
| 35° | 234.8 | 222.3 | 222.3 |
| 37.5° | 211.8 | 206.2 | 205.5 |
| 40° | 196.5 | 191.6 | 190.9 |
| 42.5° | 184.6 | 179.1 | 178.4 |
| 45° | 172.1 | 166.5 | 166.5 |
| 47.5° | 160.2 | 154.0 | 154.7 |
| 50° | 148.4 | 143.5 | 143.5 |
| 52.5° | 138.7 | 133.8 | 133.1 |
| 55° | 129.6 | 124.7 | 124.0 |
| 57.5° | 121.2 | 115.7 | 115.0 |
| 60° | 112.9 | 107.3 | 105.9 |
| 62.5° | 105.9 | 99.6 | 98.2 |
| 64° | 101.7 | 95.5 | 94.1 |
| 65° | 99.6 | 92.7 | 92.0 |
| 67.5° | 97.5 | 88.5 | 87.8 |
| 70° | 105.2 | 87.1 | 83.6 |
| 72.5° | 105.9 | 85.0 | 80.8 |
| 75° | 100.3 | 80.8 | 77.3 |
| 77.5° | 88.5 | 73.9 | 69.7 |
| 80° | 85.0 | 57.8 | 50.9 |
| 82.5° | 78.0 | 47.4 | 39.7 |
| 85° | 64.1 | 30.7 | 28.6 |
| 87.5° | 36.9 | 20.2 | 14.6 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)