

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: P140977

Luminaire Tested: **EMM-F04-LED-E1-SL2-7060**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140977
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: EMM-F04-LED-E1-SL2-7060
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (28) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9751.2 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.2
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

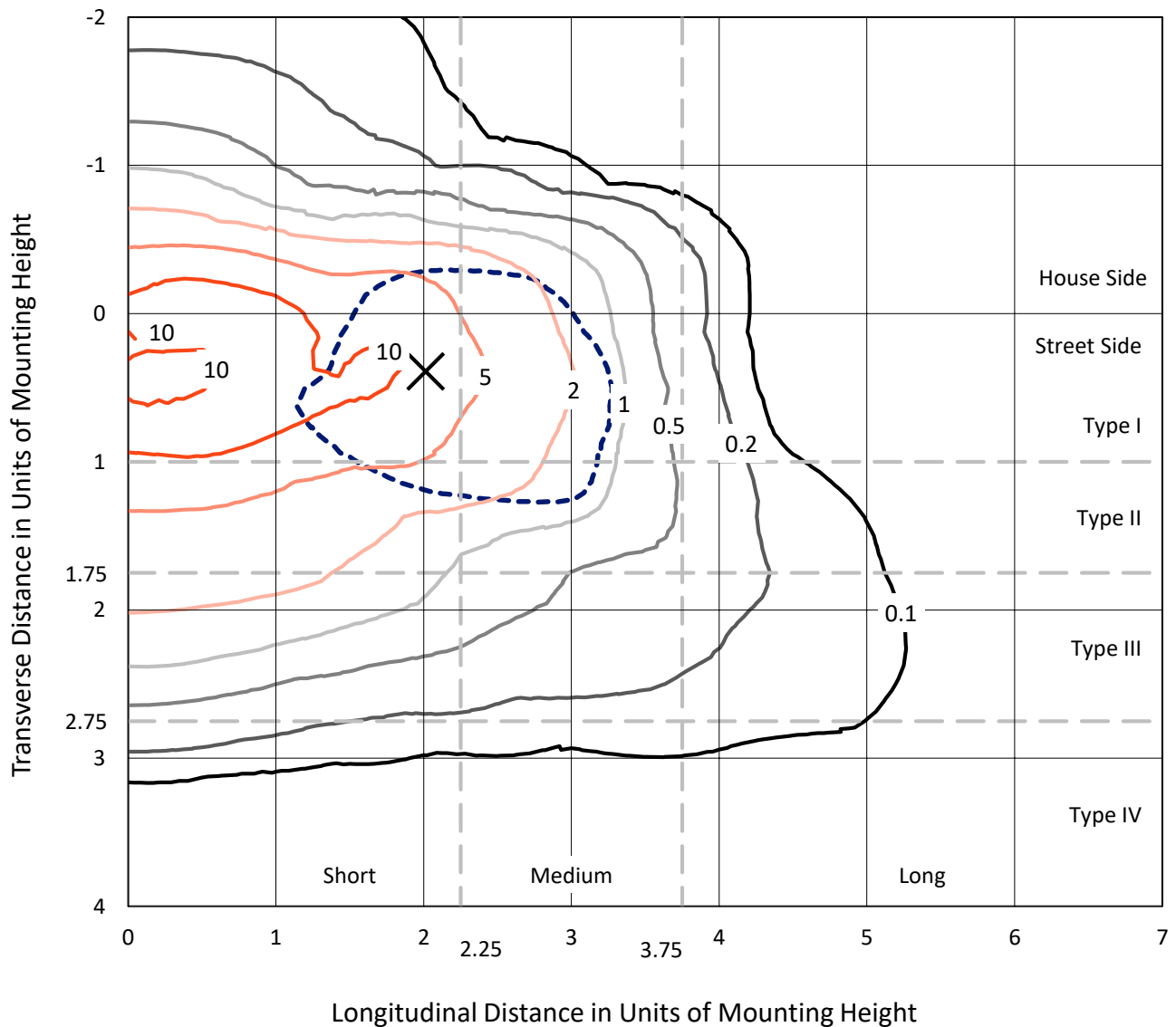


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Iso-Footcandle Lines of Horizontal Illumination

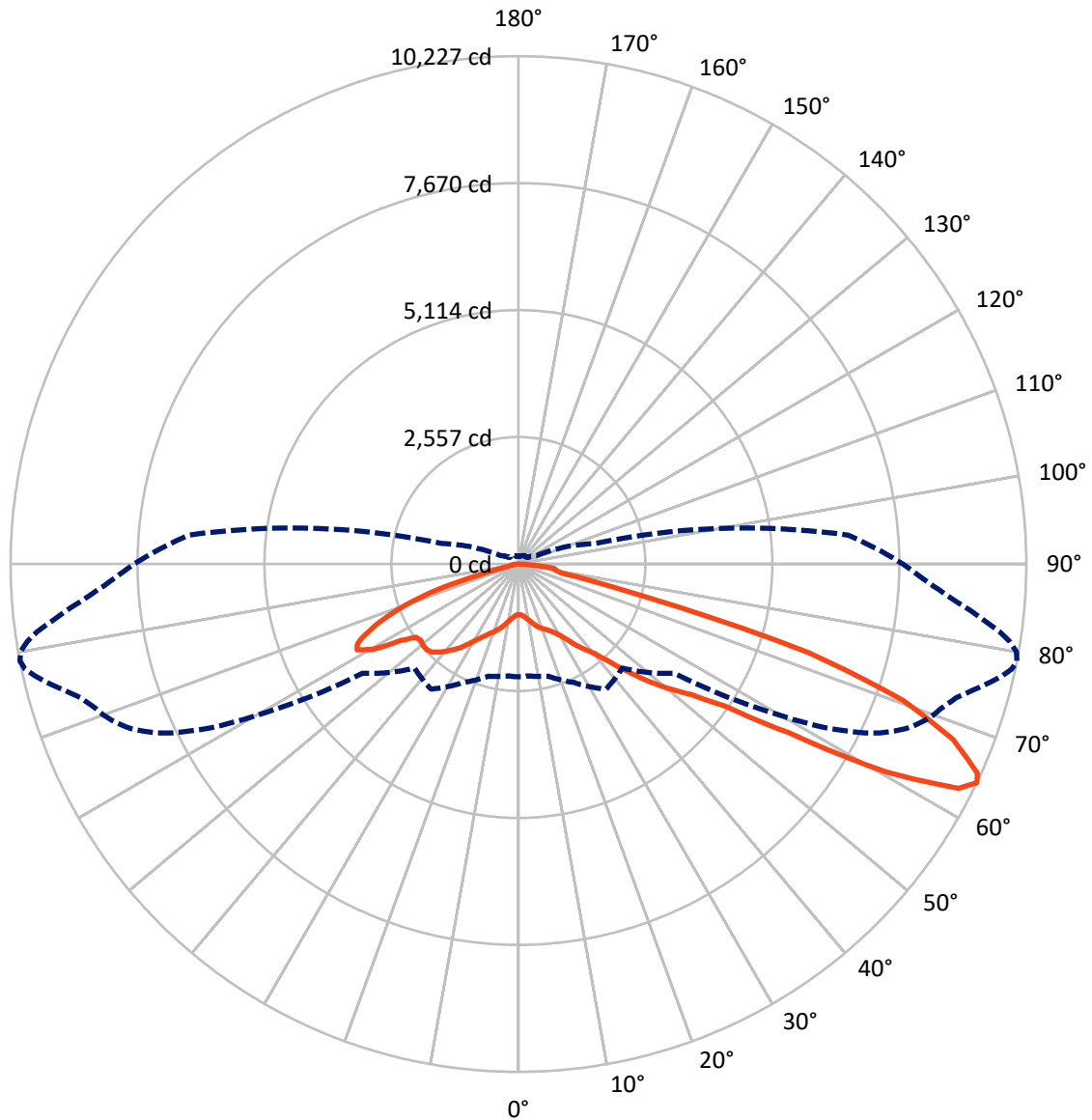
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 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 | 2324.3 | 0.0 | 2324.3 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 7426.8 | 0.0 | 7426.8 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 9751.2 | 0.0 | 9751.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.1 | 1.0 |
| 10°-20° | 327.6 | 3.4 |
| 20°-30° | 562.3 | 5.8 |
| 30°-40° | 939.9 | 9.6 |
| 40°-50° | 1610.1 | 16.5 |
| 50°-60° | 2172.0 | 22.3 |
| 60°-70° | 2747.5 | 28.2 |
| 70°-80° | 1096.3 | 11.2 |
| 80°-90° | 194.5 | 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° | 9751.2 | 100.0 |
| 0°-180° | 9751.2 | 100.0 |



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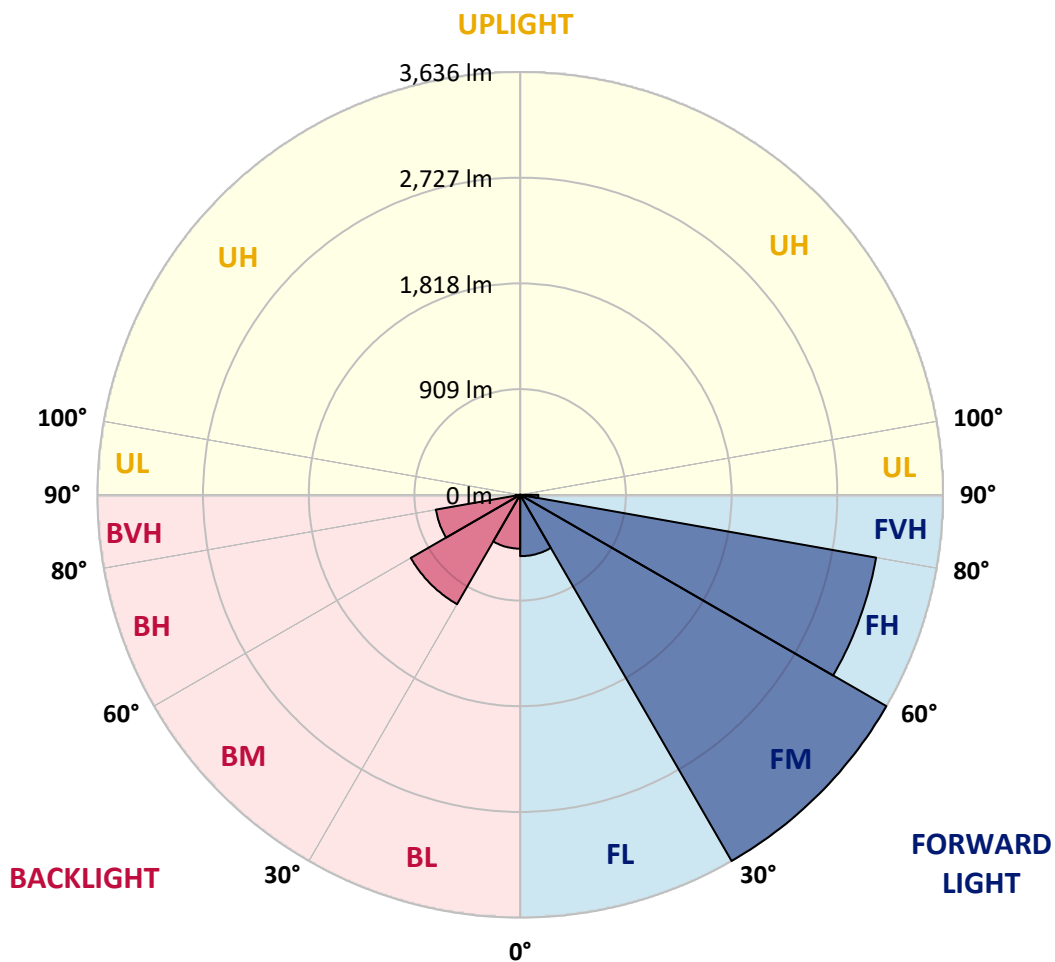
CATALOG NUMBER: EMM-F04-LED-E1-SL2-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 527.7 | 5.4 | | | |
| FM (30°-60°) | 3635.9 | 37.3 | | | |
| FH (60°-80°) | 3107.5 | 31.9 | | | G2/5000 |
| FVH (80°-90°) | 155.7 | 1.6 | | | G2/225 |
| BL (0°-30°) | 463.2 | 4.7 | B1/500 | | |
| BM (30°-60°) | 1086.2 | 11.1 | B2/2500 | | |
| BH (60°-80°) | 736.3 | 7.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 38.7 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CATALOG NUMBER: EMM-F04-LED-E1-SL2-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 |
| 2.5° | 1015.4 | 1016.5 | 1015.4 | 1018.7 | 1021.0 | 1024.4 | 1024.4 | 1024.4 | 1024.4 | 1024.4 | 1024.4 |
| 5° | 1014.2 | 1015.4 | 1014.2 | 1019.9 | 1025.5 | 1032.3 | 1039.1 | 1041.3 | 1041.3 | 1042.5 | 1043.6 |
| 7.5° | 1024.4 | 1025.5 | 1024.4 | 1031.2 | 1039.1 | 1050.4 | 1062.8 | 1069.6 | 1070.7 | 1071.8 | 1074.1 |
| 10° | 1056.0 | 1053.8 | 1049.2 | 1056.0 | 1063.9 | 1080.9 | 1095.6 | 1106.8 | 1110.2 | 1111.4 | 1115.9 |
| 12.5° | 1097.8 | 1096.7 | 1088.8 | 1085.4 | 1089.9 | 1109.1 | 1136.2 | 1152.0 | 1155.4 | 1156.5 | 1161.1 |
| 15° | 1129.4 | 1126.0 | 1119.3 | 1114.8 | 1122.7 | 1143.0 | 1179.1 | 1199.5 | 1206.2 | 1207.4 | 1215.3 |
| 17.5° | 1149.8 | 1147.5 | 1136.2 | 1132.8 | 1145.2 | 1176.9 | 1222.0 | 1246.9 | 1251.4 | 1254.8 | 1263.8 |
| 20° | 1183.6 | 1176.9 | 1159.9 | 1145.2 | 1155.4 | 1204.0 | 1257.1 | 1283.0 | 1289.8 | 1293.2 | 1301.1 |
| 22.5° | 1228.8 | 1223.2 | 1202.8 | 1165.6 | 1165.6 | 1219.8 | 1288.7 | 1318.0 | 1323.7 | 1330.5 | 1339.5 |
| 25° | 1306.8 | 1302.2 | 1262.7 | 1199.5 | 1183.6 | 1235.6 | 1318.0 | 1357.6 | 1363.2 | 1371.1 | 1384.7 |
| 27.5° | 1386.9 | 1381.3 | 1337.3 | 1252.5 | 1215.3 | 1265.0 | 1361.0 | 1408.4 | 1416.3 | 1425.3 | 1441.2 |
| 30° | 1489.7 | 1479.6 | 1435.5 | 1337.3 | 1277.4 | 1312.4 | 1428.7 | 1488.6 | 1497.6 | 1508.9 | 1530.4 |
| 32.5° | 1720.1 | 1724.6 | 1644.5 | 1540.5 | 1435.5 | 1420.8 | 1533.8 | 1607.2 | 1620.7 | 1635.4 | 1664.8 |
| 35° | 2095.1 | 2077.0 | 2047.7 | 1941.5 | 1825.2 | 1710.0 | 1738.2 | 1817.3 | 1831.9 | 1836.5 | 1848.9 |
| 37.5° | 2334.5 | 2344.7 | 2368.4 | 2368.4 | 2281.5 | 2232.9 | 2152.7 | 2114.3 | 2117.7 | 2122.2 | 2112.0 |
| 40° | 2467.8 | 2489.3 | 2570.6 | 2680.1 | 2759.2 | 2803.3 | 2789.7 | 2610.1 | 2588.7 | 2560.4 | 2470.1 |
| 42.5° | 2563.8 | 2585.3 | 2724.2 | 2934.3 | 3130.8 | 3286.7 | 3372.5 | 3231.3 | 3215.5 | 3147.7 | 3039.3 |
| 45° | 2622.5 | 2639.5 | 2806.6 | 3104.8 | 3401.9 | 3667.3 | 3902.2 | 3852.5 | 3848.0 | 3790.4 | 3648.1 |
| 47.5° | 2611.3 | 2625.9 | 2799.9 | 3159.0 | 3548.7 | 3909.0 | 4272.6 | 4363.0 | 4367.5 | 4352.8 | 4265.9 |
| 50° | 2444.1 | 2479.1 | 2651.9 | 3039.3 | 3467.4 | 4002.7 | 4512.1 | 4748.1 | 4754.9 | 4768.5 | 4734.6 |
| 52.5° | 2295.0 | 2322.1 | 2476.8 | 2823.6 | 3234.7 | 3910.1 | 4655.5 | 5030.5 | 5088.1 | 5120.9 | 5184.1 |
| 55° | 2234.0 | 2249.8 | 2368.4 | 2663.2 | 3042.7 | 3662.8 | 4704.1 | 5234.9 | 5337.7 | 5399.8 | 5544.4 |
| 57.5° | 2222.7 | 2235.2 | 2326.6 | 2551.4 | 2915.1 | 3407.5 | 4688.3 | 5509.4 | 5672.0 | 5789.5 | 6069.6 |
| 60° | 2298.4 | 2309.7 | 2374.1 | 2562.7 | 2827.0 | 3221.1 | 4543.7 | 5870.8 | 6098.9 | 6415.2 | 6867.0 |
| 62.5° | 2354.9 | 2360.5 | 2439.6 | 2703.9 | 2924.1 | 3039.3 | 4175.5 | 6123.8 | 6529.3 | 6931.3 | 7603.4 |
| 64° | 2272.4 | 2261.1 | 2339.1 | 2630.5 | 3074.3 | 2961.4 | 3834.4 | 6111.4 | 6586.9 | 7033.0 | 7760.3 |
| 65° | 2151.6 | 2159.5 | 2229.5 | 2487.0 | 3048.3 | 2958.0 | 3610.8 | 5975.8 | 6469.4 | 6942.6 | 7686.9 |
| 67.5° | 1671.6 | 1702.1 | 1721.3 | 1957.3 | 2497.2 | 3054.0 | 3023.5 | 5112.9 | 5608.8 | 6060.5 | 6940.4 |
| 70° | 899.0 | 895.6 | 938.6 | 1124.9 | 1737.1 | 2592.1 | 2594.3 | 3604.0 | 4152.9 | 4714.3 | 5589.6 |
| 72.5° | 330.9 | 347.9 | 381.7 | 513.9 | 902.4 | 1870.3 | 2377.5 | 2499.4 | 2744.5 | 3190.7 | 4129.2 |
| 75° | 189.7 | 192.0 | 198.8 | 241.7 | 434.8 | 1032.3 | 2209.2 | 2211.4 | 2229.5 | 2302.9 | 2813.4 |
| 77.5° | 148.0 | 143.4 | 146.8 | 157.0 | 237.2 | 543.3 | 1772.1 | 2100.7 | 2098.5 | 2087.2 | 2161.7 |
| 80° | 110.7 | 115.2 | 122.0 | 122.0 | 146.8 | 291.4 | 1007.5 | 1869.2 | 1932.5 | 1979.9 | 2007.0 |
| 82.5° | 89.2 | 92.6 | 109.6 | 109.6 | 107.3 | 164.9 | 475.5 | 1384.7 | 1583.5 | 1712.2 | 1912.1 |
| 85° | 57.6 | 61.0 | 92.6 | 91.5 | 87.0 | 97.1 | 248.5 | 464.2 | 500.3 | 609.9 | 867.4 |
| 87.5° | 15.8 | 19.2 | 42.9 | 37.3 | 45.2 | 36.1 | 92.6 | 141.2 | 173.9 | 196.5 | 247.3 |
| 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: EMM-F04-LED-E1-SL2-7060

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 |
| 2.5° | 1024.4 | 1024.4 | 1024.4 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1026.7 | 1024.4 | 1024.4 |
| 5° | 1044.7 | 1043.6 | 1044.7 | 1044.7 | 1048.1 | 1047.0 | 1048.1 | 1048.1 | 1047.0 | 1049.2 | 1049.2 |
| 7.5° | 1077.5 | 1075.2 | 1077.5 | 1078.6 | 1079.7 | 1084.3 | 1084.3 | 1086.5 | 1087.6 | 1088.8 | 1086.5 |
| 10° | 1117.0 | 1120.4 | 1121.5 | 1121.5 | 1127.2 | 1129.4 | 1129.4 | 1132.8 | 1136.2 | 1138.5 | 1137.3 |
| 12.5° | 1165.6 | 1167.8 | 1169.0 | 1175.7 | 1176.9 | 1180.3 | 1185.9 | 1189.3 | 1189.3 | 1194.9 | 1198.3 |
| 15° | 1219.8 | 1222.0 | 1228.8 | 1231.1 | 1235.6 | 1241.2 | 1244.6 | 1248.0 | 1248.0 | 1258.2 | 1261.6 |
| 17.5° | 1266.1 | 1270.6 | 1275.1 | 1278.5 | 1286.4 | 1292.1 | 1297.7 | 1301.1 | 1306.8 | 1311.3 | 1319.2 |
| 20° | 1305.6 | 1311.3 | 1316.9 | 1323.7 | 1329.3 | 1335.0 | 1341.8 | 1346.3 | 1353.1 | 1359.8 | 1367.7 |
| 22.5° | 1344.0 | 1350.8 | 1357.6 | 1363.2 | 1371.1 | 1376.8 | 1382.4 | 1390.3 | 1394.9 | 1401.6 | 1410.7 |
| 25° | 1385.8 | 1397.1 | 1403.9 | 1411.8 | 1419.7 | 1427.6 | 1434.4 | 1441.2 | 1447.9 | 1457.0 | 1466.0 |
| 27.5° | 1452.5 | 1458.1 | 1467.1 | 1471.7 | 1485.2 | 1494.2 | 1503.3 | 1504.4 | 1513.4 | 1530.4 | 1532.6 |
| 30° | 1539.4 | 1549.6 | 1555.2 | 1571.0 | 1573.3 | 1576.7 | 1591.4 | 1601.5 | 1612.8 | 1626.4 | 1632.0 |
| 32.5° | 1670.4 | 1679.5 | 1687.4 | 1691.9 | 1704.3 | 1724.6 | 1726.9 | 1735.9 | 1755.1 | 1758.5 | 1778.9 |
| 35° | 1862.4 | 1864.7 | 1877.1 | 1883.9 | 1899.7 | 1911.0 | 1916.6 | 1924.6 | 1934.7 | 1958.4 | 1964.1 |
| 37.5° | 2092.8 | 2112.0 | 2096.2 | 2080.4 | 2108.7 | 2105.3 | 2112.0 | 2103.0 | 2130.1 | 2131.2 | 2141.4 |
| 40° | 2450.9 | 2443.0 | 2409.1 | 2372.9 | 2356.0 | 2345.8 | 2325.5 | 2321.0 | 2335.7 | 2328.9 | 2332.3 |
| 42.5° | 2978.3 | 2903.8 | 2846.2 | 2803.3 | 2750.2 | 2692.6 | 2659.8 | 2610.1 | 2610.1 | 2595.4 | 2609.0 |
| 45° | 3598.4 | 3514.8 | 3407.5 | 3305.9 | 3240.3 | 3164.7 | 3086.7 | 3034.8 | 2981.7 | 2942.2 | 2977.2 |
| 47.5° | 4209.4 | 4152.9 | 4033.2 | 3939.5 | 3808.5 | 3695.5 | 3572.4 | 3465.1 | 3401.9 | 3355.5 | 3362.3 |
| 50° | 4740.2 | 4688.3 | 4626.2 | 4499.7 | 4400.3 | 4285.1 | 4155.2 | 4014.0 | 3877.3 | 3822.0 | 3774.6 |
| 52.5° | 5187.5 | 5169.4 | 5116.3 | 5057.6 | 4976.3 | 4853.2 | 4770.7 | 4636.3 | 4474.8 | 4358.5 | 4308.8 |
| 55° | 5582.8 | 5614.4 | 5642.7 | 5630.2 | 5600.9 | 5585.1 | 5483.4 | 5391.9 | 5282.4 | 5248.5 | 5145.7 |
| 57.5° | 6205.1 | 6296.6 | 6405.0 | 6464.9 | 6523.6 | 6658.0 | 6690.8 | 6655.8 | 6669.3 | 6660.3 | 6606.1 |
| 60° | 7086.1 | 7307.4 | 7497.2 | 7648.5 | 7810.0 | 7967.0 | 8152.3 | 8274.2 | 8325.1 | 8521.6 | 8518.2 |
| 62.5° | 7841.7 | 8136.4 | 8379.3 | 8561.1 | 8749.7 | 8892.0 | 9011.8 | 9133.7 | 9282.8 | 9425.1 | 9604.7 |
| 64° | 8047.2 | 8278.8 | 8476.4 | 8639.0 | 8774.6 | 8890.9 | 8982.4 | 9094.2 | 9217.3 | 9401.4 | 9600.2 |
| 65° | 7941.1 | 8202.0 | 8345.4 | 8492.2 | 8614.2 | 8704.5 | 8798.3 | 8899.9 | 9055.8 | 9201.5 | 9413.8 |
| 67.5° | 7219.3 | 7417.0 | 7624.8 | 7761.5 | 7878.9 | 7932.0 | 8020.1 | 8104.8 | 8191.8 | 8338.6 | 8604.0 |
| 70° | 6087.7 | 6309.0 | 6608.3 | 6737.1 | 6859.1 | 6878.3 | 6960.7 | 7024.0 | 7081.6 | 7276.9 | 7408.0 |
| 72.5° | 4567.4 | 4996.6 | 5290.3 | 5516.2 | 5541.0 | 5637.0 | 5670.9 | 5696.9 | 5762.4 | 5798.5 | 5838.0 |
| 75° | 3147.7 | 3534.0 | 3783.6 | 3869.4 | 3974.5 | 3923.7 | 3864.9 | 3658.2 | 3659.4 | 3484.3 | 3285.5 |
| 77.5° | 2214.8 | 2274.7 | 2276.9 | 2278.1 | 2139.1 | 2057.8 | 1965.2 | 1846.6 | 1800.3 | 1707.7 | 1581.2 |
| 80° | 2008.1 | 2001.4 | 1959.6 | 1908.7 | 1833.1 | 1724.6 | 1612.8 | 1534.9 | 1473.9 | 1405.0 | 1314.7 |
| 82.5° | 1938.1 | 1953.9 | 1923.4 | 1880.5 | 1836.5 | 1729.2 | 1600.4 | 1478.4 | 1377.9 | 1268.4 | 1157.7 |
| 85° | 944.2 | 971.3 | 1059.4 | 1117.0 | 1130.6 | 1063.9 | 972.4 | 861.8 | 755.6 | 635.9 | 580.5 |
| 87.5° | 283.5 | 303.8 | 310.6 | 329.8 | 353.5 | 321.9 | 283.5 | 254.1 | 204.4 | 177.3 | 138.9 |
| 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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CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|--------|--------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 |
| 2.5° | 1024.4 | 1025.5 | 1025.5 | 1024.4 | 1025.5 | 1025.5 | 1026.7 | 1025.5 | 1025.5 | 1025.5 | 1024.4 |
| 5° | 1047.0 | 1051.5 | 1050.4 | 1050.4 | 1052.6 | 1052.6 | 1051.5 | 1053.8 | 1052.6 | 1052.6 | 1051.5 |
| 7.5° | 1089.9 | 1089.9 | 1093.3 | 1094.4 | 1092.2 | 1092.2 | 1094.4 | 1095.6 | 1097.8 | 1098.9 | 1098.9 |
| 10° | 1139.6 | 1145.2 | 1145.2 | 1146.4 | 1147.5 | 1150.9 | 1152.0 | 1152.0 | 1154.3 | 1154.3 | 1156.5 |
| 12.5° | 1200.6 | 1202.8 | 1205.1 | 1210.8 | 1211.9 | 1211.9 | 1217.5 | 1216.4 | 1216.4 | 1222.0 | 1223.2 |
| 15° | 1266.1 | 1269.5 | 1275.1 | 1277.4 | 1279.6 | 1285.3 | 1288.7 | 1292.1 | 1290.9 | 1298.8 | 1301.1 |
| 17.5° | 1323.7 | 1327.1 | 1333.9 | 1339.5 | 1342.9 | 1346.3 | 1348.5 | 1353.1 | 1359.8 | 1365.5 | 1366.6 |
| 20° | 1370.0 | 1374.5 | 1382.4 | 1389.2 | 1394.9 | 1398.2 | 1407.3 | 1411.8 | 1414.1 | 1418.6 | 1424.2 |
| 22.5° | 1415.2 | 1423.1 | 1431.0 | 1433.3 | 1445.7 | 1449.1 | 1455.8 | 1462.6 | 1467.1 | 1477.3 | 1480.7 |
| 25° | 1471.7 | 1478.4 | 1488.6 | 1495.4 | 1503.3 | 1510.1 | 1516.8 | 1522.5 | 1532.6 | 1541.7 | 1546.2 |
| 27.5° | 1546.2 | 1551.8 | 1559.7 | 1572.2 | 1578.9 | 1583.5 | 1595.9 | 1607.2 | 1611.7 | 1620.7 | 1628.6 |
| 30° | 1644.5 | 1650.1 | 1661.4 | 1673.8 | 1679.5 | 1694.2 | 1703.2 | 1711.1 | 1720.1 | 1732.6 | 1743.8 |
| 32.5° | 1787.9 | 1794.7 | 1804.8 | 1820.6 | 1820.6 | 1830.8 | 1850.0 | 1867.0 | 1873.7 | 1888.4 | 1896.3 |
| 35° | 1976.5 | 1977.6 | 1988.9 | 2012.7 | 2019.4 | 2017.2 | 2035.2 | 2051.1 | 2055.6 | 2078.2 | 2092.8 |
| 37.5° | 2159.5 | 2162.9 | 2176.4 | 2185.5 | 2197.9 | 2206.9 | 2219.3 | 2243.1 | 2243.1 | 2275.8 | 2289.4 |
| 40° | 2349.2 | 2366.2 | 2368.4 | 2370.7 | 2391.0 | 2427.2 | 2439.6 | 2463.3 | 2484.8 | 2516.4 | 2531.1 |
| 42.5° | 2624.8 | 2642.9 | 2664.3 | 2689.2 | 2719.7 | 2740.0 | 2763.7 | 2797.6 | 2806.6 | 2846.2 | 2856.3 |
| 45° | 3002.0 | 3023.5 | 3081.1 | 3086.7 | 3141.0 | 3168.1 | 3207.6 | 3252.8 | 3264.1 | 3290.0 | 3276.5 |
| 47.5° | 3378.1 | 3403.0 | 3466.2 | 3531.7 | 3581.4 | 3628.9 | 3640.2 | 3659.4 | 3676.3 | 3660.5 | 3665.0 |
| 50° | 3794.9 | 3831.0 | 3890.9 | 3948.5 | 3985.8 | 4040.0 | 4040.0 | 4044.5 | 4028.7 | 4002.7 | 3960.9 |
| 52.5° | 4282.8 | 4288.5 | 4326.9 | 4372.0 | 4405.9 | 4417.2 | 4417.2 | 4391.2 | 4352.8 | 4311.1 | 4229.7 |
| 55° | 5097.1 | 5035.0 | 5046.3 | 5046.3 | 5021.5 | 5001.1 | 4985.3 | 4922.1 | 4846.4 | 4770.7 | 4696.2 |
| 57.5° | 6564.3 | 6623.0 | 6447.9 | 6400.5 | 6402.8 | 6248.0 | 6184.8 | 6076.4 | 5995.0 | 5859.5 | 5745.4 |
| 60° | 8657.1 | 8616.5 | 8558.9 | 8504.6 | 8509.2 | 8304.7 | 8161.3 | 7999.8 | 7858.6 | 7560.4 | 7433.9 |
| 62.5° | 9765.1 | 9909.7 | 9992.1 | 9950.3 | 9854.3 | 9726.7 | 9491.8 | 9246.7 | 8998.2 | 8745.2 | 8518.2 |
| 64° | 9805.7 | 9996.6 | 10159.3 | 10227.0 | 10181.8 | 10020.3 | 9780.9 | 9476.0 | 9180.0 | 8881.9 | 8607.4 |
| 65° | 9609.2 | 9850.9 | 10061.0 | 10155.9 | 10158.1 | 10015.8 | 9776.4 | 9469.2 | 9152.9 | 8807.3 | 8521.6 |
| 67.5° | 8793.8 | 9071.6 | 9278.3 | 9437.6 | 9574.2 | 9501.9 | 9335.9 | 9009.5 | 8710.2 | 8318.3 | 8005.4 |
| 70° | 7570.6 | 7742.3 | 7974.9 | 8207.6 | 8317.2 | 8334.1 | 8272.0 | 8107.1 | 7757.0 | 7438.5 | 7035.2 |
| 72.5° | 5834.7 | 6101.2 | 5964.5 | 6108.0 | 6199.5 | 6110.2 | 6121.5 | 5840.3 | 5727.4 | 5447.3 | 5163.8 |
| 75° | 3090.1 | 3099.2 | 3040.4 | 2613.5 | 2560.4 | 2365.0 | 2581.9 | 2194.5 | 2062.3 | 1940.4 | 1783.4 |
| 77.5° | 1433.3 | 1248.0 | 1075.2 | 897.9 | 734.1 | 642.6 | 501.5 | 441.6 | 397.6 | 350.1 | 360.3 |
| 80° | 1198.3 | 1056.0 | 904.7 | 749.9 | 630.2 | 509.4 | 408.9 | 317.4 | 254.1 | 213.5 | 194.3 |
| 82.5° | 1060.5 | 935.2 | 830.1 | 735.3 | 649.4 | 530.8 | 436.0 | 336.6 | 258.6 | 195.4 | 151.3 |
| 85° | 478.9 | 375.0 | 341.1 | 268.8 | 228.1 | 194.3 | 154.7 | 127.6 | 105.0 | 89.2 | 70.0 |
| 87.5° | 111.8 | 76.8 | 65.5 | 62.1 | 54.2 | 50.8 | 42.9 | 45.2 | 37.3 | 29.4 | 30.5 |
| 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: P140977

CATALOG NUMBER: EMM-F04-LED-E1-SL2-7060

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 | 1019.9 |
| 2.5° | 1024.4 | 1024.4 | 1025.5 | 1025.5 | 1026.7 | 1028.9 | 1032.3 | 1028.9 | 1028.9 | 1028.9 | 1030.0 |
| 5° | 1053.8 | 1054.9 | 1053.8 | 1053.8 | 1056.0 | 1059.4 | 1060.5 | 1053.8 | 1050.4 | 1047.0 | 1042.5 |
| 7.5° | 1096.7 | 1101.2 | 1100.1 | 1100.1 | 1102.3 | 1102.3 | 1100.1 | 1089.9 | 1079.7 | 1063.9 | 1050.4 |
| 10° | 1156.5 | 1158.8 | 1158.8 | 1158.8 | 1162.2 | 1164.4 | 1154.3 | 1131.7 | 1104.6 | 1076.4 | 1051.5 |
| 12.5° | 1227.7 | 1226.6 | 1230.0 | 1233.3 | 1231.1 | 1231.1 | 1211.9 | 1176.9 | 1132.8 | 1086.5 | 1043.6 |
| 15° | 1302.2 | 1303.4 | 1303.4 | 1309.0 | 1310.1 | 1305.6 | 1275.1 | 1220.9 | 1153.2 | 1083.1 | 1014.2 |
| 17.5° | 1372.3 | 1374.5 | 1375.7 | 1380.2 | 1385.8 | 1373.4 | 1329.3 | 1255.9 | 1156.5 | 1051.5 | 958.9 |
| 20° | 1431.0 | 1434.4 | 1437.8 | 1441.2 | 1446.8 | 1437.8 | 1379.0 | 1272.9 | 1138.5 | 1000.7 | 894.5 |
| 22.5° | 1484.1 | 1489.7 | 1492.0 | 1497.6 | 1506.7 | 1495.4 | 1424.2 | 1272.9 | 1097.8 | 945.3 | 822.2 |
| 25° | 1548.5 | 1555.2 | 1566.5 | 1568.8 | 1584.6 | 1572.2 | 1460.4 | 1263.8 | 1051.5 | 875.3 | 744.3 |
| 27.5° | 1633.2 | 1639.9 | 1650.1 | 1655.8 | 1675.0 | 1658.0 | 1487.5 | 1240.1 | 993.9 | 799.6 | 668.6 |
| 30° | 1745.0 | 1751.8 | 1764.2 | 1769.8 | 1804.8 | 1748.4 | 1505.5 | 1204.0 | 927.3 | 711.5 | 581.7 |
| 32.5° | 1900.8 | 1918.9 | 1917.8 | 1932.5 | 1964.1 | 1848.9 | 1513.4 | 1153.2 | 843.7 | 622.3 | 500.3 |
| 35° | 2105.3 | 2117.7 | 2129.0 | 2149.3 | 2164.0 | 1956.2 | 1507.8 | 1086.5 | 739.8 | 529.7 | 429.2 |
| 37.5° | 2301.8 | 2323.2 | 2331.2 | 2344.7 | 2341.3 | 2028.5 | 1485.2 | 982.6 | 626.8 | 447.3 | 380.6 |
| 40° | 2546.9 | 2559.3 | 2584.1 | 2596.6 | 2536.7 | 2097.4 | 1432.1 | 843.7 | 513.9 | 393.0 | 349.0 |
| 42.5° | 2873.3 | 2889.1 | 2876.7 | 2873.3 | 2758.1 | 2135.8 | 1330.5 | 704.8 | 430.3 | 353.5 | 323.0 |
| 45° | 3269.7 | 3276.5 | 3239.2 | 3214.4 | 3013.3 | 2132.4 | 1182.5 | 573.8 | 372.7 | 324.1 | 300.4 |
| 47.5° | 3627.7 | 3614.2 | 3565.6 | 3528.4 | 3234.7 | 2053.3 | 997.3 | 473.2 | 342.2 | 300.4 | 282.4 |
| 50° | 3923.7 | 3863.8 | 3811.8 | 3764.4 | 3412.0 | 1932.5 | 820.0 | 398.7 | 312.9 | 281.2 | 264.3 |
| 52.5° | 4191.3 | 4110.0 | 4049.0 | 3968.8 | 3573.5 | 1773.2 | 678.8 | 347.9 | 283.5 | 262.0 | 245.1 |
| 55° | 4587.8 | 4492.9 | 4415.0 | 4335.9 | 3859.3 | 1649.0 | 587.3 | 309.5 | 254.1 | 241.7 | 225.9 |
| 57.5° | 5725.1 | 5471.0 | 5402.1 | 5330.9 | 4625.0 | 1621.9 | 534.2 | 279.0 | 231.5 | 222.5 | 212.3 |
| 60° | 7280.3 | 7115.4 | 7004.8 | 6830.8 | 5896.8 | 1708.8 | 494.7 | 256.4 | 215.7 | 210.1 | 201.0 |
| 62.5° | 8294.6 | 8095.8 | 7912.8 | 7735.5 | 6643.3 | 1706.6 | 446.1 | 241.7 | 206.7 | 205.6 | 192.0 |
| 64° | 8358.9 | 8136.4 | 7932.0 | 7741.1 | 6667.0 | 1594.8 | 402.1 | 231.5 | 206.7 | 206.7 | 186.4 |
| 65° | 8252.8 | 8029.1 | 7817.9 | 7619.2 | 6531.5 | 1508.9 | 372.7 | 227.0 | 210.1 | 208.9 | 183.0 |
| 67.5° | 7711.8 | 7487.0 | 7249.8 | 7036.4 | 5957.8 | 1182.5 | 294.8 | 219.1 | 228.1 | 220.2 | 179.6 |
| 70° | 6755.1 | 6499.9 | 6321.4 | 6167.8 | 5114.1 | 825.6 | 233.8 | 223.6 | 249.6 | 233.8 | 188.6 |
| 72.5° | 4896.1 | 4688.3 | 4686.0 | 4512.1 | 3871.7 | 524.1 | 188.6 | 222.5 | 248.5 | 231.5 | 195.4 |
| 75° | 1902.0 | 1630.9 | 1621.9 | 1682.9 | 1646.7 | 283.5 | 162.6 | 196.5 | 203.3 | 193.1 | 172.8 |
| 77.5° | 325.3 | 319.6 | 316.2 | 333.2 | 367.1 | 157.0 | 149.1 | 167.2 | 151.3 | 136.7 | 143.4 |
| 80° | 180.7 | 172.8 | 170.5 | 170.5 | 160.4 | 128.8 | 132.1 | 133.3 | 109.6 | 101.6 | 118.6 |
| 82.5° | 125.4 | 116.3 | 111.8 | 108.4 | 105.0 | 115.2 | 117.5 | 105.0 | 79.1 | 77.9 | 110.7 |
| 85° | 61.0 | 57.6 | 56.5 | 56.5 | 64.4 | 108.4 | 97.1 | 81.3 | 53.1 | 53.1 | 119.7 |
| 87.5° | 26.0 | 26.0 | 22.6 | 22.6 | 35.0 | 68.9 | 44.0 | 33.9 | 21.5 | 24.8 | 48.6 |
| 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: P140977

CATALOG NUMBER: EMM-F04-LED-E1-SL2-7060

CANDELA DISTRIBUTION (continued):

| | 165° | 175° | 180° |
|-------|--------|--------|--------|
| 0° | 1019.9 | 1019.9 | 1019.9 |
| 2.5° | 1028.9 | 1031.2 | 1030.0 |
| 5° | 1036.8 | 1036.8 | 1034.6 |
| 7.5° | 1035.7 | 1031.2 | 1028.9 |
| 10° | 1028.9 | 1016.5 | 1015.4 |
| 12.5° | 1010.8 | 990.5 | 984.9 |
| 15° | 958.9 | 931.8 | 925.0 |
| 17.5° | 893.4 | 861.8 | 852.7 |
| 20° | 818.8 | 782.7 | 770.3 |
| 22.5° | 746.6 | 704.8 | 692.3 |
| 25° | 667.5 | 625.7 | 618.9 |
| 27.5° | 580.5 | 541.0 | 530.8 |
| 30° | 500.3 | 466.5 | 458.6 |
| 32.5° | 428.1 | 404.3 | 404.3 |
| 35° | 380.6 | 360.3 | 360.3 |
| 37.5° | 343.3 | 334.3 | 333.2 |
| 40° | 318.5 | 310.6 | 309.5 |
| 42.5° | 299.3 | 290.3 | 289.1 |
| 45° | 279.0 | 269.9 | 269.9 |
| 47.5° | 259.8 | 249.6 | 250.7 |
| 50° | 240.6 | 232.7 | 232.7 |
| 52.5° | 224.8 | 216.9 | 215.7 |
| 55° | 210.1 | 202.2 | 201.0 |
| 57.5° | 196.5 | 187.5 | 186.4 |
| 60° | 183.0 | 173.9 | 171.7 |
| 62.5° | 171.7 | 161.5 | 159.3 |
| 64° | 164.9 | 154.7 | 152.5 |
| 65° | 161.5 | 150.2 | 149.1 |
| 67.5° | 158.1 | 143.4 | 142.3 |
| 70° | 170.5 | 141.2 | 135.5 |
| 72.5° | 171.7 | 137.8 | 131.0 |
| 75° | 162.6 | 131.0 | 125.4 |
| 77.5° | 143.4 | 119.7 | 112.9 |
| 80° | 137.8 | 93.7 | 82.4 |
| 82.5° | 126.5 | 76.8 | 64.4 |
| 85° | 103.9 | 49.7 | 46.3 |
| 87.5° | 59.9 | 32.8 | 23.7 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)