

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: STREETWORKS

Report Number: P151363

Luminaire Tested: **TMU-F04-LED-E-U-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P151363
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-F04-LED-E-U-SL3-8030
Description: TALON MEDIUM LED AREA LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8461.6 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

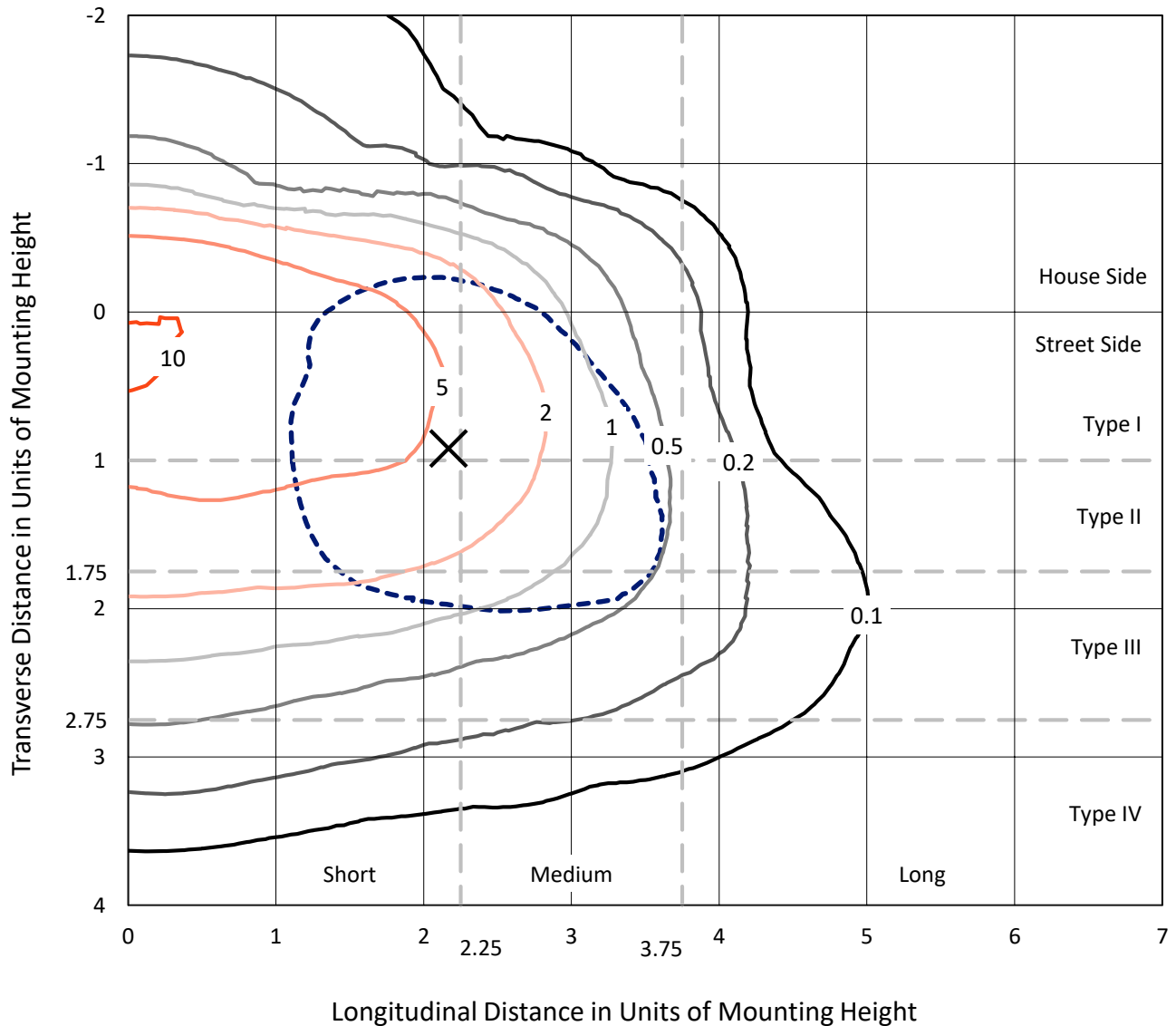
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

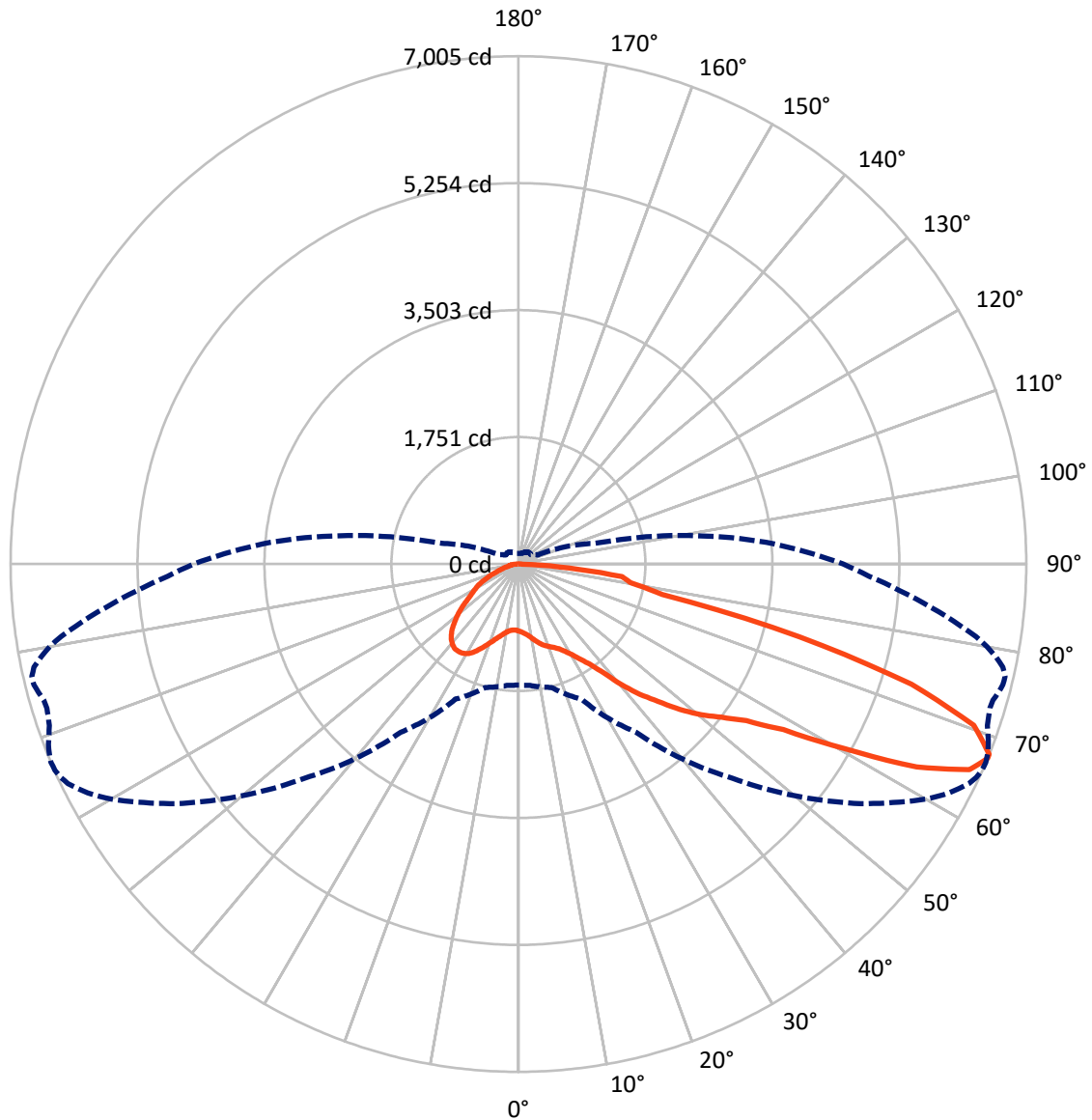
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1952.6 | 0.0 | 1952.6 |
| | % Fixture | 23.1 | 0.0 | 23.1 |
| Street Side | Lumens | 6509.0 | 0.0 | 6509.0 |
| | % Fixture | 76.9 | 0.0 | 76.9 |
| Total | Lumens | 8461.6 | 0.0 | 8461.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.0 | 1.1 |
| 10°-20° | 315.6 | 3.7 |
| 20°-30° | 557.2 | 6.6 |
| 30°-40° | 799.8 | 9.5 |
| 40°-50° | 1214.7 | 14.4 |
| 50°-60° | 1788.4 | 21.1 |
| 60°-70° | 2376.8 | 28.1 |
| 70°-80° | 1162.8 | 13.7 |
| 80°-90° | 154.4 | 1.8 |
| 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° | 8461.6 | 100.0 |
| 0°-180° | 8461.6 | 100.0 |



REPORT NUMBER: P151363

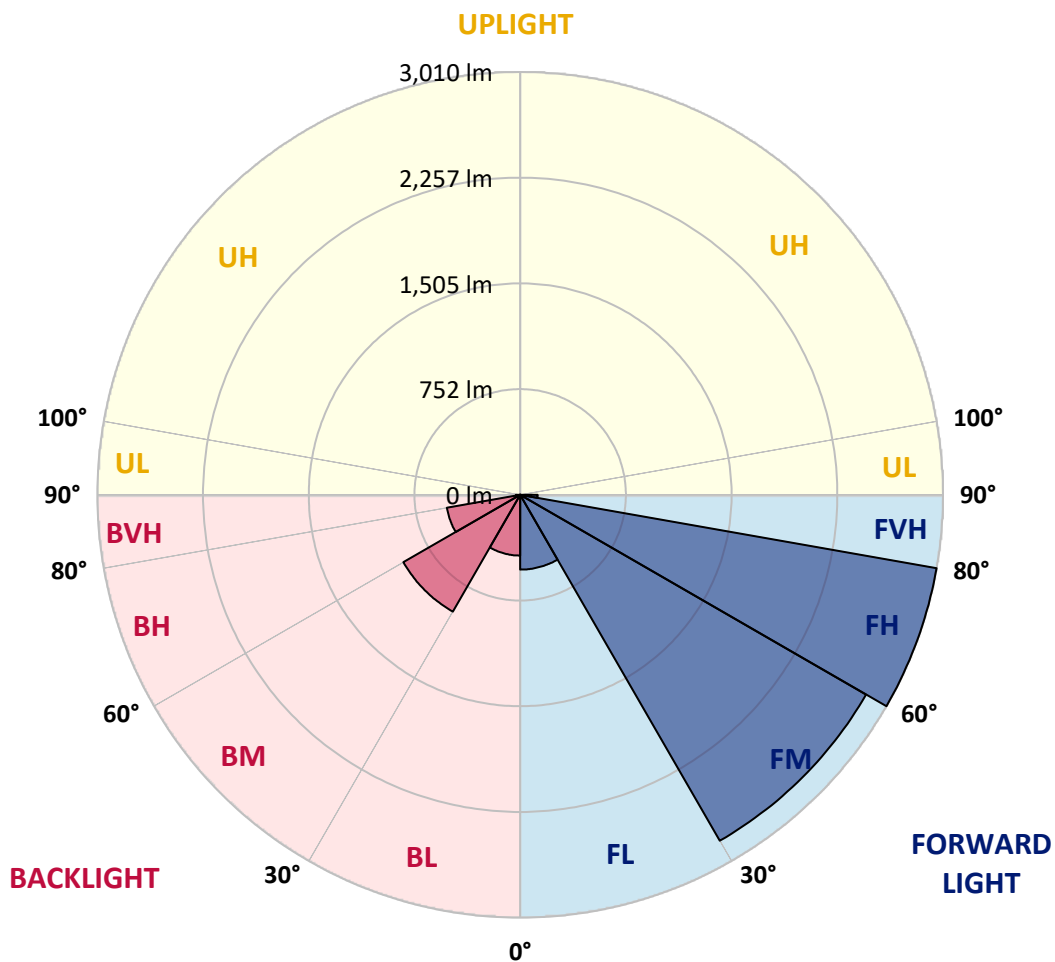
CATALOG NUMBER: TMU-F04-LED-E-U-SL3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 532.3 | 6.3 | | | |
| FM | (30°-60°) | 2842.9 | 33.6 | | | |
| FH | (60°-80°) | 3009.7 | 35.6 | | | G2/5000 |
| FVH | (80°-90°) | 124.0 | 1.5 | | | G2/225 |
| BL | (0°-30°) | 432.5 | 5.1 | B1/500 | | |
| BM | (30°-60°) | 960.0 | 11.3 | B1/1000 | | |
| BH | (60°-80°) | 529.8 | 6.3 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 30.4 | 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 III Short





REPORT NUMBER: P151363

CATALOG NUMBER: TMU-F04-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 |
| 2.5° | 968.0 | 968.9 | 967.1 | 966.1 | 960.6 | 955.0 | 951.3 | 946.6 | 946.6 | 946.6 | 944.8 |
| 5° | 1022.8 | 1019.1 | 1021.9 | 1015.4 | 1004.2 | 994.0 | 983.8 | 975.4 | 973.6 | 973.6 | 969.9 |
| 7.5° | 1088.8 | 1084.1 | 1082.3 | 1073.0 | 1056.3 | 1041.4 | 1020.9 | 1012.6 | 1007.9 | 1006.1 | 1004.2 |
| 10° | 1168.7 | 1168.7 | 1156.6 | 1140.8 | 1118.5 | 1092.5 | 1070.2 | 1055.3 | 1054.4 | 1054.4 | 1046.0 |
| 12.5° | 1250.4 | 1252.3 | 1236.5 | 1220.7 | 1184.5 | 1150.1 | 1124.1 | 1107.3 | 1106.4 | 1102.7 | 1098.1 |
| 15° | 1325.7 | 1321.0 | 1310.8 | 1287.6 | 1247.6 | 1206.7 | 1174.2 | 1157.5 | 1153.8 | 1150.1 | 1147.3 |
| 17.5° | 1387.9 | 1383.3 | 1370.2 | 1340.5 | 1298.7 | 1250.4 | 1210.5 | 1192.8 | 1191.0 | 1189.1 | 1185.4 |
| 20° | 1426.9 | 1423.2 | 1404.6 | 1370.2 | 1326.6 | 1277.3 | 1234.6 | 1222.5 | 1218.8 | 1218.8 | 1217.0 |
| 22.5° | 1449.2 | 1443.6 | 1416.7 | 1371.2 | 1328.4 | 1292.2 | 1256.9 | 1249.5 | 1246.7 | 1247.6 | 1247.6 |
| 25° | 1460.4 | 1455.7 | 1417.6 | 1352.6 | 1311.7 | 1301.5 | 1286.6 | 1282.0 | 1282.9 | 1283.9 | 1285.7 |
| 27.5° | 1462.2 | 1455.7 | 1411.1 | 1328.4 | 1290.4 | 1319.2 | 1329.4 | 1336.8 | 1336.8 | 1340.5 | 1347.0 |
| 30° | 1448.3 | 1440.8 | 1398.1 | 1309.9 | 1281.1 | 1354.5 | 1395.3 | 1414.8 | 1422.3 | 1420.4 | 1435.3 |
| 32.5° | 1424.1 | 1419.5 | 1385.1 | 1309.9 | 1307.1 | 1424.1 | 1496.6 | 1524.5 | 1528.2 | 1530.0 | 1546.8 |
| 35° | 1415.8 | 1414.8 | 1400.0 | 1354.5 | 1387.9 | 1546.8 | 1657.3 | 1678.7 | 1683.3 | 1683.3 | 1695.4 |
| 37.5° | 1413.9 | 1418.6 | 1435.3 | 1438.1 | 1530.0 | 1728.8 | 1873.8 | 1906.3 | 1906.3 | 1915.6 | 1915.6 |
| 40° | 1413.9 | 1424.1 | 1487.3 | 1562.5 | 1703.8 | 1965.7 | 2166.4 | 2203.5 | 2203.5 | 2213.8 | 2208.2 |
| 42.5° | 1468.7 | 1483.6 | 1587.6 | 1730.7 | 1923.0 | 2210.0 | 2440.4 | 2482.2 | 2485.0 | 2482.2 | 2490.6 |
| 45° | 1576.5 | 1589.5 | 1715.8 | 1921.1 | 2148.7 | 2472.0 | 2702.4 | 2752.6 | 2742.4 | 2748.9 | 2751.6 |
| 47.5° | 1719.5 | 1740.0 | 1884.0 | 2129.2 | 2368.9 | 2714.5 | 2996.0 | 3041.5 | 3037.8 | 3040.6 | 3028.5 |
| 50° | 1871.9 | 1893.3 | 2054.0 | 2335.5 | 2588.1 | 2909.6 | 3231.9 | 3299.7 | 3293.2 | 3297.9 | 3304.4 |
| 52.5° | 2006.6 | 2019.6 | 2174.7 | 2490.6 | 2754.4 | 3091.6 | 3413.1 | 3497.6 | 3512.5 | 3514.3 | 3519.0 |
| 55° | 2086.5 | 2102.3 | 2244.4 | 2567.7 | 2875.2 | 3270.0 | 3620.2 | 3748.4 | 3777.2 | 3784.7 | 3805.1 |
| 57.5° | 2114.4 | 2131.1 | 2260.2 | 2578.9 | 2941.2 | 3437.2 | 3909.2 | 4134.9 | 4159.0 | 4199.0 | 4264.0 |
| 60° | 2113.4 | 2131.1 | 2243.5 | 2553.8 | 3008.0 | 3644.4 | 4358.8 | 4736.9 | 4859.5 | 4900.4 | 4993.3 |
| 62.5° | 2027.0 | 2047.5 | 2161.7 | 2477.6 | 3093.5 | 3909.2 | 5027.6 | 5609.2 | 5767.1 | 5841.4 | 5941.8 |
| 65° | 1837.5 | 1852.4 | 1959.2 | 2284.4 | 3069.4 | 4170.2 | 5586.9 | 6312.4 | 6456.4 | 6565.1 | 6744.4 |
| 67° | 1669.4 | 1678.7 | 1762.3 | 2055.8 | 2833.4 | 4179.5 | 5763.4 | 6487.1 | 6612.5 | 6727.7 | 6912.5 |
| 67.5° | 1626.6 | 1646.2 | 1711.2 | 1986.2 | 2745.1 | 4126.5 | 5751.3 | 6460.1 | 6588.3 | 6708.2 | 6903.3 |
| 70° | 1323.8 | 1351.7 | 1384.2 | 1569.0 | 2158.0 | 3471.6 | 5324.9 | 5993.8 | 6106.2 | 6217.7 | 6489.9 |
| 72.5° | 816.6 | 866.7 | 873.2 | 990.3 | 1404.6 | 2399.6 | 4308.6 | 5054.6 | 5139.1 | 5219.0 | 5497.7 |
| 75° | 481.2 | 488.6 | 511.9 | 606.6 | 824.0 | 1434.3 | 2891.0 | 3754.9 | 3833.0 | 3872.0 | 4090.3 |
| 77.5° | 268.5 | 275.9 | 295.4 | 377.2 | 633.6 | 966.1 | 1683.3 | 2206.3 | 2253.7 | 2302.9 | 2267.6 |
| 80° | 111.5 | 121.7 | 131.0 | 152.4 | 296.3 | 762.7 | 1157.5 | 1402.8 | 1433.4 | 1462.2 | 1498.4 |
| 82.5° | 53.9 | 57.6 | 70.6 | 80.8 | 107.8 | 313.1 | 907.6 | 1216.0 | 1252.3 | 1294.1 | 1378.6 |
| 85° | 25.1 | 27.9 | 39.0 | 46.4 | 52.0 | 79.0 | 303.8 | 591.8 | 641.9 | 651.2 | 667.9 |
| 87.5° | 1.9 | 1.9 | 4.6 | 6.5 | 9.3 | 10.2 | 31.6 | 44.6 | 50.2 | 45.5 | 57.6 |
| 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: P151363

CATALOG NUMBER: TMU-F04-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 |
| 2.5° | 943.8 | 942.9 | 941.1 | 941.1 | 940.1 | 940.1 | 940.1 | 938.3 | 938.3 | 938.3 | 937.3 |
| 5° | 968.9 | 968.0 | 965.2 | 965.2 | 963.4 | 963.4 | 960.6 | 959.6 | 957.8 | 957.8 | 956.9 |
| 7.5° | 1001.4 | 1000.5 | 996.8 | 996.8 | 994.0 | 993.1 | 991.2 | 988.4 | 988.4 | 986.6 | 984.7 |
| 10° | 1046.0 | 1043.2 | 1042.3 | 1037.7 | 1038.6 | 1036.7 | 1034.9 | 1032.1 | 1030.2 | 1028.4 | 1026.5 |
| 12.5° | 1096.2 | 1096.2 | 1091.6 | 1088.8 | 1090.6 | 1088.8 | 1085.0 | 1084.1 | 1081.3 | 1081.3 | 1078.5 |
| 15° | 1143.6 | 1143.6 | 1141.7 | 1138.0 | 1138.9 | 1136.1 | 1135.2 | 1133.4 | 1129.6 | 1130.6 | 1129.6 |
| 17.5° | 1184.5 | 1184.5 | 1181.7 | 1179.8 | 1179.8 | 1177.0 | 1177.9 | 1176.1 | 1174.2 | 1173.3 | 1170.5 |
| 20° | 1217.0 | 1217.0 | 1215.1 | 1213.2 | 1214.2 | 1214.2 | 1211.4 | 1211.4 | 1211.4 | 1209.5 | 1209.5 |
| 22.5° | 1248.6 | 1249.5 | 1249.5 | 1249.5 | 1250.4 | 1251.3 | 1250.4 | 1252.3 | 1251.3 | 1253.2 | 1253.2 |
| 25° | 1290.4 | 1293.1 | 1295.0 | 1295.0 | 1299.6 | 1300.6 | 1301.5 | 1304.3 | 1304.3 | 1307.1 | 1308.0 |
| 27.5° | 1352.6 | 1354.5 | 1361.9 | 1363.7 | 1364.7 | 1372.1 | 1373.0 | 1376.7 | 1380.5 | 1381.4 | 1382.3 |
| 30° | 1438.1 | 1442.7 | 1448.3 | 1452.0 | 1452.0 | 1461.3 | 1465.0 | 1463.1 | 1473.4 | 1476.2 | 1479.9 |
| 32.5° | 1552.3 | 1556.0 | 1561.6 | 1565.3 | 1569.0 | 1573.7 | 1574.6 | 1579.3 | 1587.6 | 1595.1 | 1590.4 |
| 35° | 1696.3 | 1705.6 | 1696.3 | 1706.5 | 1709.3 | 1715.8 | 1714.0 | 1719.5 | 1723.3 | 1726.0 | 1725.1 |
| 37.5° | 1905.3 | 1900.7 | 1898.8 | 1895.1 | 1888.6 | 1910.9 | 1899.8 | 1898.8 | 1893.3 | 1909.1 | 1898.8 |
| 40° | 2180.3 | 2183.1 | 2185.9 | 2171.0 | 2162.7 | 2162.7 | 2159.9 | 2149.7 | 2145.0 | 2159.0 | 2157.1 |
| 42.5° | 2467.4 | 2470.2 | 2457.2 | 2447.9 | 2426.5 | 2423.7 | 2410.7 | 2407.9 | 2403.3 | 2410.7 | 2403.3 |
| 45° | 2728.4 | 2730.3 | 2701.5 | 2706.1 | 2689.4 | 2692.2 | 2671.7 | 2680.1 | 2669.0 | 2676.4 | 2690.3 |
| 47.5° | 3020.1 | 3023.8 | 2998.7 | 3009.0 | 2992.2 | 2982.0 | 2981.1 | 2986.7 | 2974.6 | 2982.0 | 2985.7 |
| 50° | 3284.9 | 3280.2 | 3267.2 | 3270.0 | 3262.6 | 3264.4 | 3253.3 | 3263.5 | 3249.6 | 3264.4 | 3262.6 |
| 52.5° | 3519.9 | 3514.3 | 3511.5 | 3520.8 | 3514.3 | 3514.3 | 3507.8 | 3512.5 | 3514.3 | 3536.6 | 3541.3 |
| 55° | 3805.1 | 3809.7 | 3814.4 | 3831.1 | 3838.5 | 3826.5 | 3838.5 | 3861.8 | 3862.7 | 3915.7 | 3944.5 |
| 57.5° | 4263.1 | 4295.6 | 4312.3 | 4322.5 | 4366.2 | 4361.6 | 4389.4 | 4445.2 | 4450.7 | 4573.4 | 4644.9 |
| 60° | 5062.0 | 5119.6 | 5174.4 | 5144.7 | 5232.9 | 5259.9 | 5276.6 | 5380.7 | 5413.2 | 5529.3 | 5591.5 |
| 62.5° | 6070.9 | 6077.4 | 6162.9 | 6135.9 | 6186.1 | 6174.0 | 6194.4 | 6241.8 | 6284.6 | 6380.2 | 6438.8 |
| 65° | 6775.1 | 6805.7 | 6839.2 | 6804.8 | 6803.9 | 6763.0 | 6737.0 | 6736.0 | 6762.1 | 6782.5 | 6847.5 |
| 67° | 6966.4 | 6997.1 | 7005.4 | 6980.4 | 6944.1 | 6892.1 | 6843.8 | 6818.7 | 6802.0 | 6811.3 | 6852.2 |
| 67.5° | 6964.6 | 6993.4 | 7003.6 | 6979.4 | 6929.3 | 6885.6 | 6834.5 | 6805.7 | 6783.4 | 6788.1 | 6822.4 |
| 70° | 6568.8 | 6631.1 | 6664.5 | 6671.9 | 6665.4 | 6589.3 | 6545.6 | 6519.6 | 6501.0 | 6455.5 | 6452.7 |
| 72.5° | 5565.5 | 5640.8 | 5666.8 | 5708.6 | 5727.2 | 5614.8 | 5567.4 | 5596.2 | 5531.2 | 5387.2 | 5393.7 |
| 75° | 4086.6 | 4092.2 | 4004.8 | 3988.1 | 3925.9 | 3671.3 | 3595.2 | 3525.5 | 3414.0 | 3240.3 | 3076.8 |
| 77.5° | 2130.2 | 2129.2 | 2028.9 | 1977.8 | 1903.5 | 1750.2 | 1742.8 | 1618.3 | 1531.0 | 1372.1 | 1314.5 |
| 80° | 1513.3 | 1537.5 | 1570.9 | 1587.6 | 1561.6 | 1502.2 | 1420.4 | 1332.2 | 1230.9 | 1131.5 | 1012.6 |
| 82.5° | 1407.4 | 1422.3 | 1439.9 | 1374.9 | 1338.7 | 1255.1 | 1192.8 | 1064.6 | 993.1 | 879.7 | 759.9 |
| 85° | 684.7 | 730.2 | 694.9 | 654.0 | 640.1 | 500.7 | 484.0 | 404.1 | 366.9 | 301.9 | 281.5 |
| 87.5° | 43.7 | 53.9 | 48.3 | 43.7 | 38.1 | 21.4 | 28.8 | 20.4 | 21.4 | 15.8 | 13.9 |
| 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: P151363

CATALOG NUMBER: TMU-F04-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 |
| 2.5° | 937.3 | 936.4 | 935.5 | 934.6 | 933.6 | 933.6 | 932.7 | 931.8 | 930.8 | 929.0 | 929.0 |
| 5° | 955.0 | 955.0 | 954.1 | 952.2 | 952.2 | 950.3 | 947.6 | 946.6 | 946.6 | 944.8 | 942.9 |
| 7.5° | 983.8 | 982.9 | 981.0 | 980.1 | 978.2 | 976.4 | 974.5 | 972.6 | 971.7 | 968.9 | 968.0 |
| 10° | 1027.5 | 1025.6 | 1020.9 | 1019.1 | 1018.2 | 1016.3 | 1014.4 | 1012.6 | 1009.8 | 1007.9 | 1007.0 |
| 12.5° | 1076.7 | 1075.8 | 1072.0 | 1073.9 | 1069.3 | 1067.4 | 1065.5 | 1060.9 | 1062.8 | 1059.0 | 1057.2 |
| 15° | 1125.9 | 1126.9 | 1125.0 | 1125.0 | 1121.3 | 1118.5 | 1116.6 | 1112.9 | 1112.0 | 1110.1 | 1108.3 |
| 17.5° | 1169.6 | 1171.4 | 1168.7 | 1166.8 | 1164.9 | 1163.1 | 1159.4 | 1155.7 | 1155.7 | 1151.9 | 1150.1 |
| 20° | 1209.5 | 1211.4 | 1210.5 | 1208.6 | 1205.8 | 1204.9 | 1203.0 | 1200.2 | 1200.2 | 1198.4 | 1195.6 |
| 22.5° | 1255.1 | 1256.0 | 1256.0 | 1255.1 | 1252.3 | 1253.2 | 1251.3 | 1248.6 | 1249.5 | 1245.8 | 1245.8 |
| 25° | 1309.9 | 1311.7 | 1313.6 | 1314.5 | 1312.6 | 1313.6 | 1311.7 | 1309.9 | 1308.9 | 1309.9 | 1308.9 |
| 27.5° | 1385.1 | 1387.0 | 1392.5 | 1387.9 | 1392.5 | 1393.5 | 1390.7 | 1387.0 | 1389.8 | 1394.4 | 1391.6 |
| 30° | 1484.5 | 1482.7 | 1490.1 | 1491.0 | 1490.1 | 1491.0 | 1489.2 | 1486.4 | 1488.2 | 1496.6 | 1491.9 |
| 32.5° | 1596.0 | 1599.7 | 1601.6 | 1603.4 | 1606.2 | 1609.9 | 1607.1 | 1604.3 | 1609.0 | 1606.2 | 1612.7 |
| 35° | 1730.7 | 1739.1 | 1741.8 | 1739.1 | 1740.9 | 1747.4 | 1746.5 | 1747.4 | 1756.7 | 1747.4 | 1759.5 |
| 37.5° | 1900.7 | 1909.1 | 1915.6 | 1911.8 | 1916.5 | 1916.5 | 1923.9 | 1944.4 | 1931.4 | 1948.1 | 1961.1 |
| 40° | 2147.8 | 2160.8 | 2161.7 | 2160.8 | 2165.5 | 2171.0 | 2178.5 | 2200.8 | 2185.9 | 2203.5 | 2215.6 |
| 42.5° | 2402.3 | 2418.1 | 2423.7 | 2414.4 | 2424.6 | 2436.7 | 2437.6 | 2457.2 | 2458.1 | 2460.9 | 2467.4 |
| 45° | 2689.4 | 2703.3 | 2714.5 | 2709.8 | 2710.8 | 2726.6 | 2722.8 | 2741.4 | 2727.5 | 2727.5 | 2731.2 |
| 47.5° | 2995.0 | 3008.0 | 3015.5 | 3022.9 | 3013.6 | 3027.5 | 3034.1 | 3030.3 | 3013.6 | 3009.9 | 2987.6 |
| 50° | 3273.7 | 3284.9 | 3296.0 | 3316.5 | 3315.5 | 3322.0 | 3326.7 | 3310.0 | 3306.2 | 3285.8 | 3260.7 |
| 52.5° | 3569.1 | 3597.9 | 3623.0 | 3665.8 | 3672.3 | 3694.6 | 3686.2 | 3658.3 | 3653.7 | 3620.2 | 3586.8 |
| 55° | 3980.7 | 4063.4 | 4099.6 | 4165.5 | 4210.1 | 4209.2 | 4190.6 | 4186.0 | 4150.7 | 4083.8 | 4043.9 |
| 57.5° | 4696.9 | 4826.1 | 4888.3 | 4973.8 | 4987.7 | 4979.3 | 4955.2 | 4912.5 | 4851.1 | 4738.7 | 4666.3 |
| 60° | 5730.9 | 5810.8 | 5883.2 | 5903.7 | 5913.9 | 5898.1 | 5813.6 | 5718.8 | 5599.0 | 5443.8 | 5314.7 |
| 62.5° | 6512.2 | 6593.9 | 6647.8 | 6639.4 | 6575.3 | 6494.5 | 6370.9 | 6212.1 | 6043.9 | 5870.2 | 5677.0 |
| 65° | 6909.8 | 6944.1 | 6935.8 | 6870.7 | 6761.1 | 6619.9 | 6439.7 | 6243.7 | 6045.8 | 5840.5 | 5639.8 |
| 67° | 6888.4 | 6889.3 | 6832.7 | 6706.3 | 6566.0 | 6388.6 | 6168.4 | 5954.8 | 5722.5 | 5507.0 | 5268.2 |
| 67.5° | 6850.3 | 6846.6 | 6767.6 | 6629.2 | 6477.8 | 6294.8 | 6066.2 | 5845.1 | 5604.5 | 5387.2 | 5140.1 |
| 70° | 6419.3 | 6367.2 | 6188.9 | 5967.8 | 5756.9 | 5509.8 | 5270.1 | 5016.5 | 4745.2 | 4558.5 | 4274.2 |
| 72.5° | 5274.8 | 5099.2 | 4791.7 | 4560.4 | 4334.6 | 4011.3 | 3861.8 | 3546.8 | 3356.4 | 3237.5 | 3022.9 |
| 75° | 3054.5 | 2907.7 | 2669.9 | 2453.4 | 2343.8 | 2152.4 | 2061.4 | 1830.1 | 1781.8 | 1779.9 | 1705.6 |
| 77.5° | 1165.9 | 1017.2 | 864.0 | 695.8 | 591.8 | 470.1 | 414.3 | 370.7 | 337.2 | 360.4 | 327.0 |
| 80° | 874.2 | 719.0 | 562.0 | 408.8 | 291.7 | 215.5 | 184.9 | 170.9 | 162.6 | 156.1 | 151.4 |
| 82.5° | 651.2 | 513.7 | 398.5 | 260.1 | 182.1 | 137.5 | 118.9 | 111.5 | 107.8 | 101.3 | 95.7 |
| 85° | 220.2 | 176.5 | 139.3 | 96.6 | 76.2 | 62.2 | 57.6 | 55.7 | 53.0 | 48.3 | 45.5 |
| 87.5° | 12.1 | 11.1 | 12.1 | 9.3 | 11.1 | 9.3 | 10.2 | 10.2 | 10.2 | 9.3 | 9.3 |
| 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: P151363

CATALOG NUMBER: TMU-F04-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 |
| 2.5° | 928.1 | 928.1 | 928.1 | 926.2 | 923.4 | 917.8 | 912.3 | 907.6 | 903.0 | 900.2 | 898.3 |
| 5° | 942.0 | 940.1 | 939.2 | 938.3 | 931.8 | 920.6 | 910.4 | 901.1 | 891.8 | 884.4 | 881.6 |
| 7.5° | 967.1 | 963.4 | 962.4 | 959.6 | 951.3 | 934.6 | 919.7 | 904.8 | 891.8 | 881.6 | 877.0 |
| 10° | 1005.2 | 1005.2 | 999.6 | 995.9 | 986.6 | 964.3 | 942.9 | 923.4 | 905.8 | 894.6 | 891.8 |
| 12.5° | 1053.5 | 1053.5 | 1048.8 | 1046.0 | 1034.9 | 1006.1 | 980.1 | 956.9 | 940.1 | 929.0 | 928.1 |
| 15° | 1103.6 | 1102.7 | 1099.0 | 1095.3 | 1083.2 | 1052.5 | 1026.5 | 1006.1 | 992.2 | 979.1 | 975.4 |
| 17.5° | 1148.2 | 1148.2 | 1143.6 | 1139.9 | 1127.8 | 1101.8 | 1078.5 | 1063.7 | 1047.9 | 1020.9 | 1000.5 |
| 20° | 1192.8 | 1193.7 | 1190.0 | 1186.3 | 1176.1 | 1153.8 | 1143.6 | 1128.7 | 1093.4 | 1034.9 | 986.6 |
| 22.5° | 1242.0 | 1245.8 | 1241.1 | 1237.4 | 1229.0 | 1219.8 | 1216.0 | 1180.7 | 1106.4 | 1012.6 | 942.0 |
| 25° | 1305.2 | 1311.7 | 1306.1 | 1304.3 | 1299.6 | 1302.4 | 1291.3 | 1209.5 | 1087.8 | 964.3 | 876.0 |
| 27.5° | 1391.6 | 1391.6 | 1392.5 | 1392.5 | 1390.7 | 1400.9 | 1360.0 | 1210.5 | 1047.0 | 902.0 | 797.1 |
| 30° | 1492.9 | 1498.4 | 1496.6 | 1496.6 | 1504.0 | 1510.5 | 1398.1 | 1190.0 | 994.9 | 824.9 | 700.5 |
| 32.5° | 1614.6 | 1619.2 | 1621.1 | 1612.7 | 1642.4 | 1609.0 | 1412.1 | 1152.9 | 930.8 | 729.2 | 585.3 |
| 35° | 1761.3 | 1767.9 | 1772.5 | 1773.4 | 1792.9 | 1694.5 | 1404.6 | 1098.1 | 838.9 | 609.4 | 458.9 |
| 37.5° | 1952.7 | 1965.7 | 1975.9 | 1980.6 | 1981.5 | 1766.9 | 1384.2 | 1025.6 | 719.0 | 475.6 | 341.9 |
| 40° | 2207.3 | 2221.2 | 2218.4 | 2227.7 | 2174.7 | 1809.7 | 1337.7 | 920.6 | 570.4 | 349.3 | 263.8 |
| 42.5° | 2452.5 | 2454.4 | 2458.1 | 2449.7 | 2342.0 | 1832.0 | 1272.7 | 792.4 | 427.3 | 261.0 | 225.7 |
| 45° | 2726.6 | 2710.8 | 2693.1 | 2680.1 | 2496.2 | 1840.3 | 1183.5 | 636.4 | 301.9 | 219.2 | 209.0 |
| 47.5° | 2983.9 | 2962.5 | 2926.3 | 2889.1 | 2633.7 | 1827.3 | 1069.3 | 476.6 | 229.5 | 200.7 | 197.9 |
| 50° | 3236.6 | 3196.6 | 3145.5 | 3102.8 | 2765.6 | 1807.8 | 942.9 | 343.7 | 200.7 | 191.4 | 188.6 |
| 52.5° | 3549.6 | 3482.7 | 3415.9 | 3360.1 | 2937.4 | 1777.1 | 810.1 | 261.0 | 188.6 | 183.9 | 180.2 |
| 55° | 3978.8 | 3885.9 | 3778.2 | 3700.1 | 3170.6 | 1730.7 | 670.7 | 221.1 | 183.0 | 179.3 | 173.7 |
| 57.5° | 4573.4 | 4434.0 | 4312.3 | 4185.1 | 3489.3 | 1683.3 | 550.9 | 205.3 | 182.1 | 176.5 | 169.1 |
| 60° | 5180.9 | 5013.7 | 4858.6 | 4676.5 | 3814.4 | 1635.9 | 467.3 | 203.4 | 184.9 | 176.5 | 165.4 |
| 62.5° | 5496.8 | 5324.0 | 5137.3 | 4952.4 | 3954.7 | 1524.5 | 409.7 | 206.2 | 191.4 | 179.3 | 165.4 |
| 65° | 5424.3 | 5213.4 | 5023.9 | 4835.3 | 3792.1 | 1313.6 | 346.5 | 209.9 | 204.4 | 190.4 | 168.1 |
| 67° | 5060.2 | 4840.0 | 4657.9 | 4477.7 | 3429.8 | 1099.9 | 297.3 | 213.7 | 218.3 | 203.4 | 173.7 |
| 67.5° | 4932.0 | 4711.8 | 4532.5 | 4356.9 | 3323.0 | 1055.3 | 285.2 | 215.5 | 221.1 | 207.2 | 175.6 |
| 70° | 4089.4 | 3927.7 | 3737.3 | 3601.7 | 2690.3 | 781.3 | 234.1 | 219.2 | 237.8 | 228.5 | 183.9 |
| 72.5° | 2943.0 | 2788.8 | 2645.7 | 2570.5 | 1981.5 | 546.2 | 196.9 | 215.5 | 248.0 | 240.6 | 187.7 |
| 75° | 1564.4 | 1555.1 | 1503.1 | 1540.3 | 1226.3 | 356.7 | 173.7 | 201.6 | 236.9 | 220.2 | 174.6 |
| 77.5° | 315.9 | 325.1 | 381.8 | 376.2 | 395.7 | 198.8 | 148.6 | 172.8 | 183.0 | 161.6 | 142.1 |
| 80° | 146.8 | 144.0 | 141.2 | 143.1 | 140.3 | 127.3 | 120.8 | 135.6 | 127.3 | 104.0 | 94.8 |
| 82.5° | 91.0 | 89.2 | 86.4 | 85.5 | 94.8 | 101.3 | 105.9 | 106.8 | 84.5 | 72.5 | 69.7 |
| 85° | 43.7 | 43.7 | 42.7 | 44.6 | 55.7 | 82.7 | 89.2 | 79.0 | 56.7 | 52.0 | 49.2 |
| 87.5° | 8.4 | 8.4 | 9.3 | 8.4 | 11.1 | 19.5 | 22.3 | 26.0 | 21.4 | 22.3 | 25.1 |
| 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: P151363

CATALOG NUMBER: TMU-F04-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (continued):

| | 165° | 175° | 180° |
|-------|-------|-------|-------|
| 0° | 924.3 | 924.3 | 924.3 |
| 2.5° | 896.5 | 894.6 | 894.6 |
| 5° | 877.9 | 877.0 | 877.0 |
| 7.5° | 873.2 | 874.2 | 873.2 |
| 10° | 890.9 | 890.0 | 893.7 |
| 12.5° | 929.9 | 932.7 | 931.8 |
| 15° | 970.8 | 972.6 | 972.6 |
| 17.5° | 982.9 | 976.4 | 975.4 |
| 20° | 951.3 | 939.2 | 936.4 |
| 22.5° | 891.8 | 869.5 | 870.5 |
| 25° | 816.6 | 789.6 | 791.5 |
| 27.5° | 729.2 | 700.5 | 699.5 |
| 30° | 624.3 | 592.7 | 576.9 |
| 32.5° | 497.9 | 459.8 | 459.8 |
| 35° | 374.4 | 343.7 | 332.6 |
| 37.5° | 284.3 | 266.6 | 261.0 |
| 40° | 236.9 | 228.5 | 226.7 |
| 42.5° | 215.5 | 212.7 | 211.8 |
| 45° | 204.4 | 202.5 | 201.6 |
| 47.5° | 194.2 | 193.2 | 192.3 |
| 50° | 186.7 | 185.8 | 184.9 |
| 52.5° | 180.2 | 178.4 | 177.4 |
| 55° | 170.9 | 170.9 | 170.9 |
| 57.5° | 165.4 | 165.4 | 164.4 |
| 60° | 159.8 | 158.9 | 158.9 |
| 62.5° | 155.1 | 153.3 | 154.2 |
| 65° | 152.4 | 149.6 | 149.6 |
| 67° | 150.5 | 144.9 | 144.9 |
| 67.5° | 150.5 | 143.1 | 143.1 |
| 70° | 147.7 | 135.6 | 133.8 |
| 72.5° | 144.9 | 127.3 | 124.5 |
| 75° | 137.5 | 120.8 | 118.0 |
| 77.5° | 118.0 | 107.8 | 105.9 |
| 80° | 91.0 | 79.0 | 80.8 |
| 82.5° | 66.0 | 56.7 | 55.7 |
| 85° | 47.4 | 40.9 | 40.9 |
| 87.5° | 25.1 | 21.4 | 22.3 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)