

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P938603

Luminaire Tested: SQ4-FB-150U-125D-B40-1D-UNV-W2A-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938603
REPORT IS A COMBINATION OF REPORTS P933640 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-150U-125D-B40-1D-UNV-W2A-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

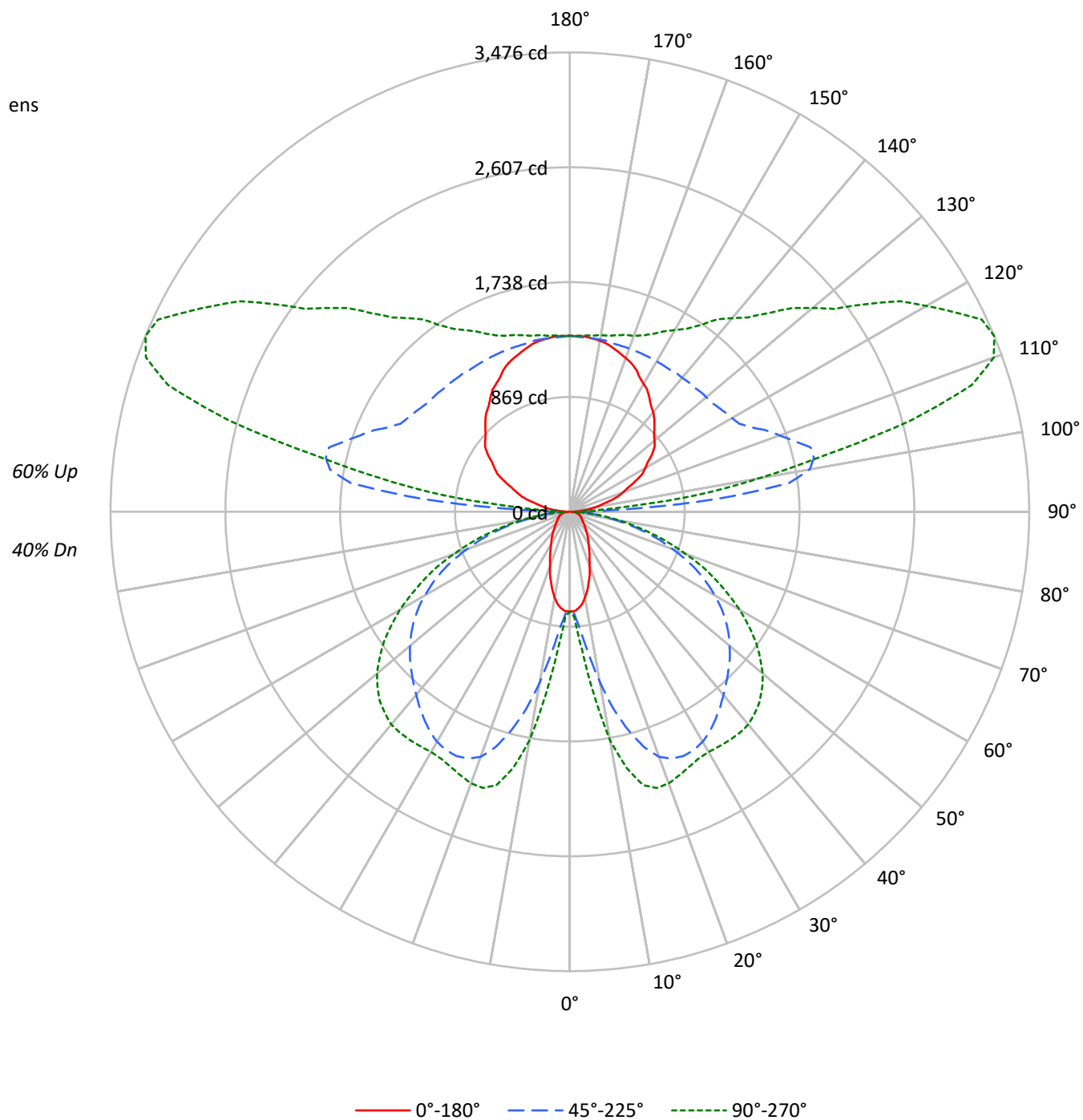
Lumens per Lamp: N/A
Luminaire Lumens: 14467.3 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 124.8
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: 24 FT

TEST NUMBER: P938603

CATALOG NUMBER: SQ4-FB-150U-125D-B40-1D-UNV-W2A-W-6

Luminous Intensity Polar Plot



TEST NUMBER: P938603

CATALOG NUMBER: SQ4-FB-150U-125D-B40-1D-UNV-W2A-W-6

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47
1	95	91	87	83	86	83	79	76	68	65	63	54	52	51	41	40	39
2	86	79	72	67	78	72	66	62	59	55	51	47	44	42	36	34	32
3	78	69	61	55	71	63	56	51	51	47	43	41	37	35	31	29	27
4	71	60	52	46	65	55	48	43	45	40	36	36	32	29	27	25	23
5	65	53	45	39	59	49	42	36	40	35	30	32	28	25	24	22	19
6	60	48	39	34	54	44	36	31	36	30	26	29	25	21	22	19	17
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15
8	51	39	31	25	46	35	28	24	29	24	20	23	19	16	18	15	13
9	47	35	27	22	43	32	25	21	27	21	18	21	17	15	17	14	11
10	44	32	25	20	40	29	23	18	24	19	16	20	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4664	4664	4664
5°	4554	5389	6269
10°	4129	7854	10393
15°	3509	10258	12549
20°	2855	11884	12790
25°	2381	12433	12529
30°	2006	12509	12506
35°	1774	12298	12829
40°	1545	12025	13163
45°	1397	11823	13215
50°	1281	11641	12996
55°	1225	11377	12420
60°	1253	10873	11511
65°	1303	10107	10260
70°	1384	8808	8668
75°	1528	7177	6764
80°	1657	4971	4559
85°	1449	2632	2333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 13215 cd/sqm

TEST NUMBER: P938603

CATALOG NUMBER: SQ4-FB-150U-125D-B40-1D-UNV-W2A-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	0.7
10°-20°	432.2	3.0
20°-30°	756.0	5.2
30°-40°	973.2	6.7
40°-50°	1087.0	7.5
50°-60°	1041.1	7.2
60°-70°	825.1	5.7
70°-80°	485.2	3.4
80°-90°	139.9	1.0
90°-100°	648.9	4.5
100°-110°	1706.1	11.8
110°-120°	1769.0	12.2
120°-130°	1418.9	9.8
130°-140°	1113.4	7.7
140°-150°	854.6	5.9
150°-160°	615.4	4.3
160°-170°	376.6	2.6
170°-180°	127.2	0.9
0°-30°	1285.7	8.9
0°-40°	2259.0	15.6
0°-60°	4387.1	30.3
0°-90°	5837.3	40.3
90°-120°	4124.0	28.5
90°-150°	7510.9	51.9
90°-180°	8630.0	59.7
0°-180°	14467.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	734	788	887	1004	1040	68
15°	550	1016	1712	2075	2140	153
25°	352	1151	2039	2128	2131	162
35°	238	1100	1920	2029	2109	148
45°	162	878	1697	1944	2031	126
55°	116	558	1440	1673	1719	106
65°	92	296	1069	1202	1219	91
75°	68	182	587	645	647	71
85°	24	56	145	160	162	26
90°	9	25	68	34	34	9
95°	86	336	1118	576	392	95
105°	307	466	1886	2864	2671	326
115°	546	663	1511	3014	3440	539
125°	759	852	1374	2322	2739	674
135°	905	996	1331	1874	2126	700
145°	1050	1117	1314	1599	1724	658
155°	1186	1220	1314	1443	1485	545
165°	1280	1297	1314	1366	1383	361
175°	1331	1331	1323	1340	1340	126
180°	1331	1331	1331	1331	1331	

TEST NUMBER: P938603

CATALOG NUMBER: SQ4-FB-150U-125D-B40-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9
2.5°	753.9	753.9	758.7	761.1	766.0	768.5	773.3	778.1	792.6	795.1	800.0
5°	734.5	744.2	775.7	787.9	821.8	867.8	887.2	918.7	984.2	1003.6	1015.7
7.5°	705.5	727.2	804.8	824.2	909.1	1030.3	1081.2	1149.1	1253.2	1304.1	1345.4
10°	659.3	705.5	843.6	889.7	1027.9	1212.1	1306.6	1401.2	1558.8	1629.0	1655.7
12.5°	608.4	683.6	884.8	947.8	1146.6	1415.7	1529.6	1633.8	1813.3	1907.8	1922.3
15°	550.3	652.1	923.6	1015.7	1272.6	1585.4	1711.5	1839.9	2007.2	2075.0	2092.0
17.5°	499.4	627.8	960.0	1056.9	1369.7	1738.1	1866.5	1973.2	2109.0	2155.1	2167.2
20°	436.3	589.0	984.2	1110.3	1471.5	1849.6	1973.2	2055.6	2147.8	2176.8	2181.7
22.5°	390.3	547.9	998.7	1129.7	1539.4	1917.4	2021.7	2087.2	2150.2	2159.9	2162.3
25°	351.5	501.8	996.4	1151.4	1597.5	1958.7	2038.7	2087.2	2123.5	2128.4	2128.4
27.5°	315.2	450.9	986.6	1156.3	1641.2	1968.4	2031.4	2065.4	2082.3	2092.0	2092.0
30°	283.6	402.4	962.4	1146.6	1660.6	1958.7	2009.6	2026.6	2043.5	2058.1	2065.4
32.5°	259.4	356.3	926.0	1127.2	1662.9	1934.4	1970.8	1980.5	2004.7	2038.7	2050.8
35°	237.6	310.3	884.8	1100.5	1648.4	1895.7	1919.9	1929.6	1978.1	2029.0	2046.0
37.5°	215.7	276.4	831.5	1054.5	1626.6	1849.6	1866.5	1883.5	1958.7	2019.3	2038.7
40°	194.0	247.2	768.5	1003.6	1592.7	1793.9	1808.4	1835.0	1934.4	2004.7	2024.1
42.5°	177.0	223.0	700.6	950.2	1549.0	1730.8	1752.6	1791.4	1905.3	1980.5	2002.3
45°	162.4	198.7	627.8	877.5	1493.2	1665.3	1696.8	1750.2	1871.4	1944.2	1963.6
47.5°	147.8	181.8	552.7	802.4	1432.7	1599.9	1641.2	1701.7	1825.4	1895.7	1912.7
50°	135.7	164.8	477.6	722.4	1367.2	1529.6	1578.1	1641.2	1767.2	1832.6	1854.4
52.5°	126.1	150.3	407.2	642.4	1292.0	1456.9	1512.6	1578.1	1696.8	1759.9	1774.5
55°	116.3	138.2	346.7	557.5	1214.5	1379.3	1439.9	1503.0	1619.3	1672.7	1682.3
57.5°	111.5	128.4	295.8	477.6	1132.1	1292.0	1359.9	1418.1	1527.2	1568.4	1578.1
60°	104.2	121.2	257.0	409.7	1042.4	1209.6	1267.9	1326.0	1418.1	1452.1	1459.3
62.5°	96.9	116.3	227.9	344.2	950.2	1112.7	1170.8	1224.2	1301.8	1326.0	1335.7
65°	92.2	111.5	206.1	295.8	855.7	1010.9	1069.0	1115.1	1178.1	1202.3	1207.2
67.5°	87.3	106.7	189.1	254.5	761.1	909.1	952.7	996.4	1044.8	1069.0	1071.5
70°	80.0	101.8	174.6	225.5	664.2	792.6	829.0	875.1	913.9	926.0	933.3
72.5°	75.2	94.5	164.8	203.6	564.8	681.2	715.1	741.7	775.7	787.9	787.9
75°	67.9	84.8	155.2	181.8	463.0	557.5	586.7	613.3	639.9	644.8	637.6
77.5°	60.6	75.2	133.3	152.7	361.2	441.2	465.5	480.0	501.8	506.6	509.1
80°	50.9	65.4	104.2	118.8	261.8	324.8	341.8	353.9	373.3	373.3	378.2
82.5°	38.8	50.9	75.2	84.8	177.0	223.0	237.6	244.9	257.0	257.0	257.0
85°	24.3	31.5	48.5	55.8	106.7	135.7	145.4	147.8	157.6	160.0	160.0
87.5°	12.1	17.0	31.5	33.9	55.8	70.3	70.3	75.2	75.2	72.8	70.3
90°	9.0	16.1	23.2	25.0	39.3	58.4	67.9	60.4	45.3	34.0	34.0
92.5°	35.7	96.5	157.3	172.5	242.5	335.8	382.4	335.1	240.7	169.8	163.0
95°	85.8	196.9	308.2	336.0	596.6	944.0	1117.7	997.4	756.7	576.2	555.8
97.5°	148.3	246.4	344.5	369.0	803.5	1382.9	1672.6	1596.6	1444.4	1330.4	1291.4
100°	196.5	285.5	374.5	396.7	878.9	1521.8	1843.2	1848.8	1860.0	1868.3	1821.9
102.5°	237.7	320.7	403.7	424.4	913.5	1565.4	1891.5	1988.3	2182.1	2327.4	2287.7
105°	307.3	377.6	447.9	465.5	939.1	1570.4	1886.1	2103.3	2537.7	2863.6	2842.2
107.5°	378.8	444.4	509.9	526.2	943.7	1500.5	1778.9	2081.9	2687.8	3142.3	3147.5
110°	427.1	486.3	545.4	560.2	936.7	1438.5	1689.5	2028.2	2705.7	3213.8	3236.0



TEST NUMBER: P938603

CATALOG NUMBER: SQ4-FB-150U-125D-B40-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	474.4	530.8	587.1	601.3	937.0	1384.5	1608.2	1954.9	2648.2	3168.2	3202.4
115°	545.9	597.9	650.0	663.0	945.5	1322.4	1510.8	1844.8	2512.7	3013.6	3061.0
117.5°	616.5	663.7	711.0	722.8	963.2	1283.6	1443.9	1745.3	2348.0	2800.1	2852.6
120°	657.6	702.1	746.6	757.7	977.4	1270.5	1417.0	1692.5	2243.2	2656.2	2707.2
122.5°	697.8	742.7	787.6	798.8	998.0	1263.7	1396.5	1644.5	2140.4	2512.4	2562.7
125°	759.4	800.3	841.3	851.5	1025.7	1258.0	1374.1	1584.8	2006.1	2322.1	2368.4
127.5°	809.5	850.7	892.1	902.4	1053.4	1254.7	1355.3	1536.2	1898.0	2169.3	2208.4
130°	836.3	880.8	925.3	936.4	1073.7	1256.8	1348.3	1509.3	1831.3	2072.8	2108.9
132.5°	864.0	908.5	953.0	964.1	1090.0	1258.0	1342.0	1486.1	1774.4	1990.6	2023.0
135°	905.1	945.5	986.1	996.3	1107.9	1256.8	1331.3	1452.0	1693.4	1874.5	1902.4
137.5°	947.1	987.2	1027.3	1037.3	1134.7	1264.5	1329.5	1431.5	1635.6	1788.7	1811.5
140°	981.9	1018.9	1055.8	1065.0	1151.1	1265.9	1323.2	1411.4	1587.7	1720.0	1741.3
142.5°	1008.7	1042.9	1077.0	1085.5	1164.8	1270.4	1323.2	1400.7	1555.5	1671.6	1690.0
145°	1049.8	1079.6	1109.4	1116.9	1182.7	1270.4	1314.3	1377.6	1504.3	1599.3	1613.2
147.5°	1090.9	1119.9	1148.9	1156.1	1208.8	1279.1	1314.3	1364.1	1463.7	1538.5	1550.1
150°	1117.7	1143.9	1170.1	1176.7	1222.5	1283.7	1314.3	1356.4	1440.5	1503.6	1513.0
152.5°	1145.4	1165.3	1185.2	1190.1	1231.5	1286.7	1314.3	1350.2	1422.1	1476.0	1483.0
155°	1186.5	1201.2	1215.9	1219.5	1251.1	1293.3	1314.3	1342.8	1400.0	1442.9	1447.6
157.5°	1216.9	1231.2	1245.5	1249.0	1270.8	1299.8	1314.3	1336.5	1381.0	1414.4	1417.6
160°	1237.5	1248.6	1259.6	1262.4	1279.7	1302.7	1314.3	1333.4	1371.5	1400.0	1401.9
162.5°	1258.0	1266.3	1274.6	1276.7	1289.2	1306.0	1314.3	1330.3	1362.5	1386.7	1388.5
165°	1280.4	1287.9	1295.4	1297.3	1302.9	1310.5	1314.3	1325.8	1348.8	1366.1	1368.0
167.5°	1300.9	1304.4	1308.1	1308.9	1313.7	1320.1	1323.2	1330.8	1345.9	1357.2	1357.9
170°	1314.3	1317.8	1321.4	1322.3	1322.6	1323.1	1323.2	1330.8	1345.9	1357.2	1357.2
172.5°	1321.4	1322.2	1323.1	1323.2	1323.2	1323.2	1323.2	1329.2	1341.1	1350.0	1349.3
175°	1331.3	1331.3	1331.3	1331.3	1328.6	1325.1	1323.2	1327.0	1334.5	1340.2	1340.2
177.5°	1331.3	1331.3	1331.3	1331.3	1329.2	1326.4	1325.0	1327.9	1333.9	1338.4	1337.7
180°	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3

TEST NUMBER: P938603

CATALOG NUMBER: SQ4-FB-150U-125D-B40-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	753.9	753.9
2.5°	804.8	800.0
5°	1035.1	1040.0
7.5°	1393.9	1391.4
10°	1733.2	1755.1
12.5°	1980.5	1985.3
15°	2130.8	2140.5
17.5°	2189.0	2191.4
20°	2191.4	2186.6
22.5°	2164.7	2159.9
25°	2133.2	2130.8
27.5°	2104.2	2106.5
30°	2092.0	2099.3
32.5°	2092.0	2104.2
35°	2096.9	2109.0
37.5°	2094.4	2109.0
40°	2084.8	2101.7
42.5°	2058.1	2070.2
45°	2016.9	2031.4
47.5°	1963.6	1973.2
50°	1895.7	1905.3
52.5°	1810.8	1813.3
55°	1709.0	1718.7
57.5°	1599.9	1602.3
60°	1478.7	1486.0
62.5°	1350.3	1350.3
65°	1214.5	1219.3
67.5°	1073.9	1086.0
70°	930.8	933.3
72.5°	790.3	790.3
75°	644.8	647.2
77.5°	506.6	506.6
80°	375.7	378.2
82.5°	259.4	264.2
85°	162.4	162.4
87.5°	75.2	67.9
90°	34.0	34.0
92.5°	136.0	109.0
95°	474.0	392.2
97.5°	1135.8	980.1
100°	1636.5	1451.0
102.5°	2128.9	1970.1
105°	2756.8	2671.4
107.5°	3168.1	3188.7
110°	3324.9	3413.9



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CATALOG NUMBER: SQ4-FB-150U-125D-B40-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	3339.0	3475.5
115°	3250.3	3439.8
117.5°	3062.7	3272.8
120°	2911.4	3115.5
122.5°	2764.1	2965.4
125°	2553.9	2739.3
127.5°	2364.9	2521.4
130°	2253.5	2398.0
132.5°	2152.4	2281.9
135°	2014.0	2125.5
137.5°	1902.9	1994.2
140°	1826.6	1912.0
142.5°	1763.5	1836.9
145°	1668.8	1724.3
147.5°	1596.1	1642.2
150°	1550.3	1587.7
152.5°	1511.2	1539.5
155°	1466.2	1484.9
157.5°	1430.8	1443.9
160°	1409.5	1417.0
162.5°	1395.5	1402.7
165°	1375.5	1383.0
167.5°	1361.2	1364.3
170°	1357.2	1357.2
172.5°	1346.6	1343.8
175°	1340.2	1340.2
177.5°	1334.4	1331.3
180°	1331.3	1331.3

(END OF REPORT)