

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: P938204

Luminaire Tested: SQ4-FB-125U-125D-B40-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938204
REPORT IS A COMBINATION OF REPORTS P933616 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-125D-B40-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

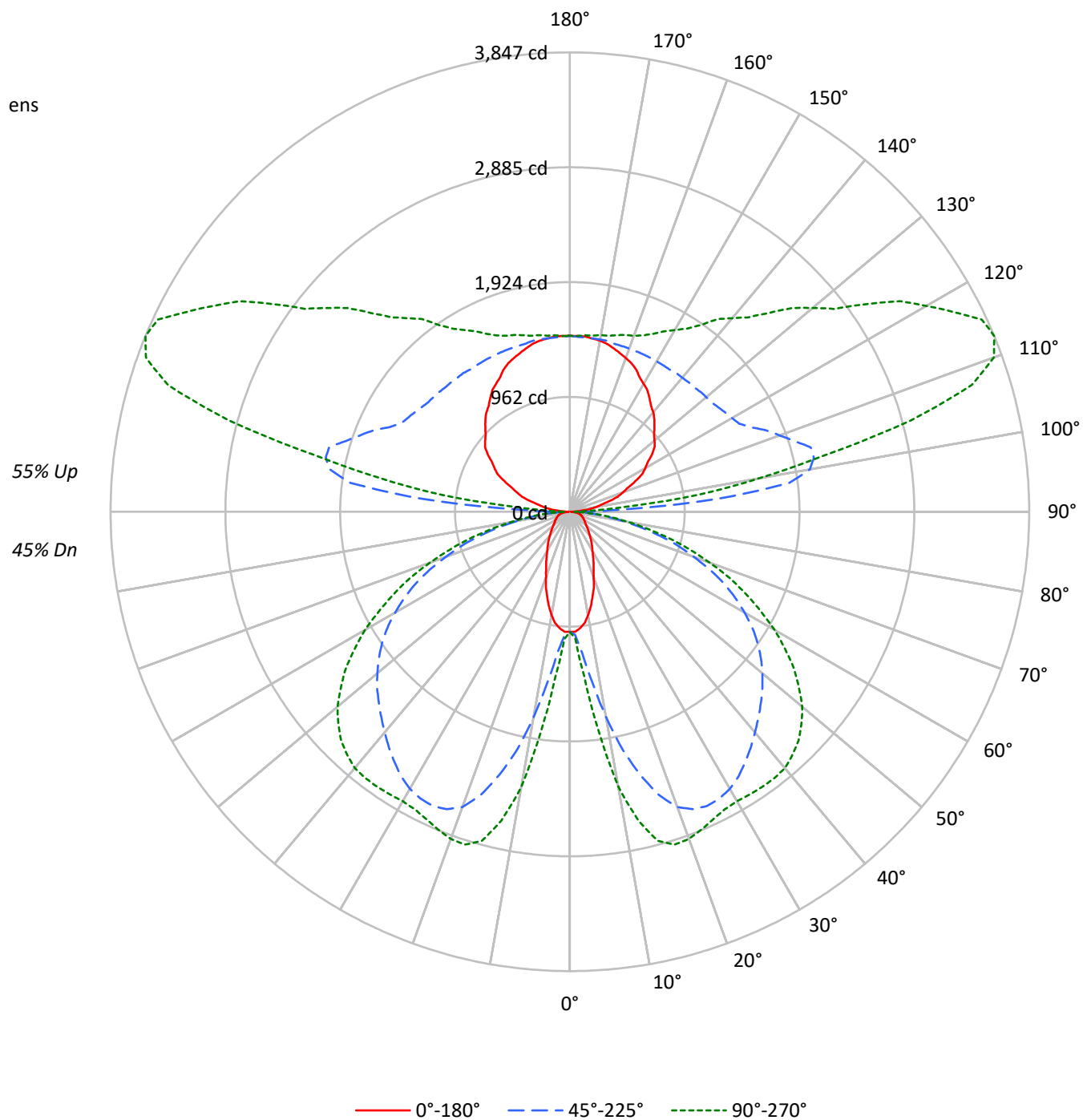
Lumens per Lamp: N/A
Luminaire Lumens: 17334.3 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 150.4
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

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Luminous Intensity Polar Plot



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	92	88	84	88	84	81	77	70	67	65	57	55	53	45	44	42
2	87	79	73	68	79	73	67	63	61	56	53	49	46	44	39	37	35
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25
5	66	54	46	39	60	50	42	37	41	36	31	34	29	26	27	23	21
6	60	48	40	34	55	44	37	31	37	31	27	30	26	23	24	21	18
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	22	18	16
8	52	39	31	26	47	36	29	24	30	25	21	25	20	17	20	16	14
9	48	35	28	23	44	33	26	21	27	22	18	23	18	15	18	15	12
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4664	4664	4664
5°	4556	5391	6269
10°	4133	7858	10393
15°	3512	10266	12550
20°	2860	11897	12790
25°	2385	12449	12530
30°	2012	12528	12506
35°	1779	12320	12830
40°	1550	12050	13164
45°	1404	11851	13216
50°	1287	11673	12997
55°	1233	11413	12421
60°	1262	10911	11511
65°	1313	10149	10261
70°	1399	8851	8669
75°	1550	7217	6765
80°	1694	5004	4558
85°	1504	2656	2333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 13216 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	0.8
10°-20°	576.3	3.3
20°-30°	1008.1	5.8
30°-40°	1297.7	7.5
40°-50°	1449.4	8.4
50°-60°	1388.2	8.0
60°-70°	1100.2	6.3
70°-80°	646.9	3.7
80°-90°	185.4	1.1
90°-100°	718.3	4.1
100°-110°	1888.3	10.9
110°-120°	1958.0	11.3
120°-130°	1570.5	9.1
130°-140°	1232.3	7.1
140°-150°	945.9	5.5
150°-160°	681.2	3.9
160°-170°	416.8	2.4
170°-180°	140.8	0.8
0°-30°	1714.4	9.9
0°-40°	3012.1	17.4
0°-60°	5849.7	33.7
0°-90°	7782.2	44.9
90°-120°	4564.6	26.3
90°-150°	8313.3	48.0
90°-180°	9552.0	55.1
0°-180°	17334.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	979	1050	1183	1338	1387	90
15°	734	1354	2282	2767	2854	204
25°	469	1535	2718	2838	2841	216
35°	317	1468	2560	2705	2812	198
45°	217	1170	2263	2592	2709	168
55°	155	744	1920	2230	2292	141
65°	123	394	1425	1603	1626	122
75°	90	242	782	860	863	95
85°	32	74	194	213	217	34
90°	10	28	75	38	38	10
95°	95	372	1237	638	434	105
105°	340	515	2088	3170	2957	361
115°	604	734	1672	3336	3807	597
125°	841	942	1521	2570	3032	746
135°	1002	1103	1474	2075	2353	775
145°	1162	1236	1455	1770	1909	728
155°	1313	1350	1455	1597	1644	603
165°	1417	1436	1455	1512	1531	400
175°	1474	1474	1465	1483	1483	140
180°	1474	1474	1474	1474	1474	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	1005.2	1005.2	1011.7	1015.0	1021.4	1024.6	1031.1	1037.6	1057.0	1060.2	1066.6
5°	979.4	992.3	1034.4	1050.5	1095.8	1157.2	1183.1	1225.1	1312.3	1338.1	1354.3
7.5°	940.6	969.7	1073.1	1099.0	1212.1	1373.8	1441.6	1532.1	1671.1	1739.0	1794.0
10°	879.2	940.6	1124.8	1186.2	1370.5	1616.1	1742.2	1868.3	2078.4	2172.1	2207.7
12.5°	811.3	911.5	1179.8	1263.8	1528.9	1887.7	2039.6	2178.5	2417.8	2543.8	2563.2
15°	733.7	869.5	1231.5	1354.3	1696.9	2113.9	2282.0	2453.3	2676.4	2766.8	2789.5
17.5°	665.8	837.2	1280.0	1409.3	1826.2	2317.6	2488.8	2631.1	2812.1	2873.5	2889.6
20°	581.8	785.5	1312.3	1480.3	1962.0	2466.3	2631.1	2740.9	2863.9	2902.6	2909.0
22.5°	520.4	730.5	1331.7	1506.2	2052.5	2556.7	2695.8	2783.0	2867.0	2880.0	2883.2
25°	468.7	669.1	1328.5	1535.4	2130.1	2611.7	2718.4	2783.0	2831.5	2838.0	2838.0
27.5°	420.2	601.2	1315.5	1541.8	2188.3	2624.6	2708.7	2753.9	2776.6	2789.5	2789.5
30°	378.2	536.5	1283.2	1528.9	2214.2	2611.7	2679.5	2702.2	2724.8	2744.2	2753.9
32.5°	345.9	475.1	1234.7	1503.0	2217.3	2579.4	2627.9	2640.8	2673.1	2718.4	2734.5
35°	316.8	413.7	1179.8	1467.5	2197.9	2527.7	2560.0	2572.9	2637.5	2705.4	2728.1
37.5°	287.6	368.4	1108.7	1406.0	2168.9	2466.3	2488.8	2511.5	2611.7	2692.5	2718.4
40°	258.6	329.7	1024.6	1338.1	2123.6	2391.9	2411.3	2446.8	2579.4	2673.1	2698.9
42.5°	236.0	297.4	934.2	1267.1	2065.5	2307.9	2337.0	2388.6	2540.6	2640.8	2669.9
45°	216.6	265.0	837.2	1170.1	1991.1	2220.6	2262.6	2333.7	2495.3	2592.3	2618.1
47.5°	197.2	242.4	737.0	1069.9	1910.3	2133.3	2188.3	2269.1	2433.9	2527.7	2550.3
50°	181.0	219.8	636.8	963.2	1823.0	2039.6	2104.2	2188.3	2356.4	2443.7	2472.7
52.5°	168.1	200.4	543.0	856.5	1722.8	1942.6	2017.0	2104.2	2262.6	2346.6	2366.0
55°	155.2	184.2	462.2	743.5	1619.4	1839.1	1920.0	2004.1	2159.2	2230.3	2243.2
57.5°	148.7	171.3	394.3	636.8	1509.5	1722.8	1813.4	1890.9	2036.3	2091.3	2104.2
60°	139.0	161.6	342.7	546.3	1389.9	1612.9	1690.4	1768.1	1890.9	1936.2	1945.8
62.5°	129.3	155.2	303.9	459.0	1267.1	1483.6	1561.2	1632.3	1735.7	1768.1	1781.0
65°	122.8	148.7	274.8	394.3	1141.0	1347.9	1425.4	1486.8	1570.9	1603.3	1609.7
67.5°	116.3	142.2	252.1	339.4	1015.0	1212.1	1270.2	1328.5	1393.2	1425.4	1428.7
70°	106.7	135.8	232.7	300.6	885.7	1057.0	1105.4	1166.8	1218.6	1234.7	1244.5
72.5°	100.2	126.1	219.8	271.5	753.1	908.3	953.6	989.1	1034.4	1050.5	1050.5
75°	90.5	113.2	206.9	242.4	617.4	743.5	782.2	817.8	853.3	859.8	850.1
77.5°	80.8	100.2	177.8	203.6	481.6	588.3	620.6	640.0	669.1	675.6	678.8
80°	67.9	87.3	139.0	158.3	349.1	433.1	455.7	472.0	497.7	497.7	504.2
82.5°	51.8	67.9	100.2	113.2	236.0	297.4	316.8	326.4	342.7	342.7	342.7
85°	32.3	42.0	64.7	74.3	142.2	181.0	194.0	197.2	210.1	213.3	213.3
87.5°	16.1	22.6	42.0	45.3	74.3	93.8	93.8	100.2	100.2	96.9	93.8
90°	9.9	17.9	25.7	27.7	43.5	64.7	75.2	66.8	50.0	37.5	37.5
92.5°	39.5	106.8	174.1	190.9	268.4	371.6	423.3	370.9	266.3	187.8	180.4
95°	94.9	218.0	341.1	371.9	660.3	1044.9	1237.1	1104.0	837.6	637.8	615.2
97.5°	164.2	272.7	381.3	408.5	889.4	1530.7	1851.3	1767.1	1598.8	1472.5	1429.4
100°	217.5	316.0	414.5	439.1	972.8	1684.3	2040.2	2046.3	2058.6	2067.9	2016.6
102.5°	263.0	354.9	446.7	469.8	1011.1	1732.8	2093.6	2200.8	2415.3	2576.1	2532.2
105°	340.2	418.0	495.7	515.2	1039.3	1738.2	2087.6	2328.0	2808.8	3169.5	3145.9
107.5°	419.3	491.8	564.3	582.5	1044.6	1660.8	1968.9	2304.3	2975.0	3478.0	3483.7
110°	472.7	538.2	603.8	620.1	1036.7	1592.3	1870.1	2245.0	2994.8	3557.1	3581.7

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	525.2	587.5	650.0	665.5	1037.0	1532.4	1780.0	2163.7	2931.1	3506.7	3544.5
115°	604.2	661.8	719.3	733.7	1046.6	1463.7	1672.3	2041.9	2781.2	3335.6	3388.1
117.5°	682.3	734.7	786.9	800.0	1066.1	1420.8	1598.1	1931.7	2598.8	3099.3	3157.4
120°	727.8	777.1	826.3	838.6	1081.8	1406.2	1568.4	1873.2	2482.8	2940.1	2996.5
122.5°	772.3	822.0	871.6	884.0	1104.6	1398.6	1545.7	1820.1	2369.2	2780.9	2836.5
125°	840.6	885.9	931.1	942.4	1135.2	1392.4	1520.9	1754.1	2220.5	2570.2	2621.5
127.5°	896.0	941.7	987.4	998.8	1166.0	1388.8	1500.2	1700.4	2100.8	2401.1	2444.3
130°	925.6	974.9	1024.0	1036.4	1188.3	1391.0	1492.3	1670.5	2027.0	2294.3	2334.3
132.5°	956.2	1005.5	1054.7	1067.0	1206.5	1392.4	1485.3	1644.9	1964.0	2203.3	2239.1
135°	1001.8	1046.6	1091.5	1102.6	1226.2	1391.1	1473.5	1607.1	1874.3	2074.7	2105.6
137.5°	1048.2	1092.6	1137.0	1148.1	1255.9	1399.6	1471.5	1584.4	1810.4	1979.8	2005.1
140°	1086.8	1127.7	1168.5	1178.8	1274.1	1401.1	1464.6	1562.2	1757.3	1903.7	1927.3
142.5°	1116.5	1154.3	1192.0	1201.5	1289.2	1406.1	1464.6	1550.3	1721.7	1850.2	1870.6
145°	1161.9	1194.9	1227.9	1236.2	1309.0	1406.1	1454.7	1524.8	1665.0	1770.2	1785.6
147.5°	1207.5	1239.6	1271.7	1279.7	1338.1	1415.8	1454.7	1509.9	1620.2	1703.0	1715.7
150°	1237.1	1266.1	1295.2	1302.4	1353.1	1420.8	1454.7	1501.3	1594.5	1664.4	1674.7
152.5°	1267.8	1289.7	1311.7	1317.2	1363.1	1424.1	1454.7	1494.5	1574.0	1633.7	1641.5
155°	1313.3	1329.6	1345.8	1349.9	1384.8	1431.4	1454.7	1486.4	1549.7	1597.1	1602.3
157.5°	1346.9	1362.7	1378.5	1382.5	1406.5	1438.6	1454.7	1479.3	1528.5	1565.4	1569.1
160°	1369.7	1382.0	1394.3	1397.4	1416.5	1442.0	1454.7	1475.8	1518.0	1549.6	1551.7
162.5°	1392.4	1401.6	1410.8	1413.1	1427.0	1445.4	1454.7	1472.4	1508.0	1534.8	1536.8
165°	1417.1	1425.5	1433.8	1435.9	1442.1	1450.5	1454.7	1467.5	1493.0	1512.1	1514.2
167.5°	1439.9	1443.8	1447.8	1448.7	1454.0	1461.1	1464.6	1472.9	1489.6	1502.1	1503.0
170°	1454.7	1458.7	1462.7	1463.6	1463.9	1464.4	1464.6	1472.9	1489.6	1502.1	1502.1
172.5°	1462.6	1463.4	1464.4	1464.6	1464.6	1464.6	1464.6	1471.2	1484.4	1494.3	1493.5
175°	1473.5	1473.5	1473.5	1473.5	1470.5	1466.6	1464.6	1468.8	1477.1	1483.4	1483.4
177.5°	1473.5	1473.5	1473.5	1473.5	1471.2	1468.1	1466.6	1469.8	1476.4	1481.4	1480.5
180°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	1005.2	1005.2
2.5°	1073.1	1066.6
5°	1380.2	1386.7
7.5°	1858.5	1855.4
10°	2311.1	2340.2
12.5°	2640.8	2647.3
15°	2841.2	2854.1
17.5°	2918.8	2922.0
20°	2922.0	2915.5
22.5°	2886.5	2880.0
25°	2844.5	2841.2
27.5°	2805.6	2808.8
30°	2789.5	2799.2
32.5°	2789.5	2805.6
35°	2796.0	2812.1
37.5°	2792.7	2812.1
40°	2779.8	2802.4
42.5°	2744.2	2760.4
45°	2689.3	2708.7
47.5°	2618.1	2631.1
50°	2527.7	2540.6
52.5°	2414.5	2417.8
55°	2278.7	2291.7
57.5°	2133.3	2136.5
60°	1971.7	1981.4
62.5°	1800.4	1800.4
65°	1619.4	1625.9
67.5°	1431.9	1448.1
70°	1241.2	1244.5
72.5°	1053.7	1053.7
75°	859.8	863.0
77.5°	675.6	675.6
80°	501.0	504.2
82.5°	345.9	352.3
85°	216.6	216.6
87.5°	100.2	90.5
90°	37.5	37.5
92.5°	150.5	120.6
95°	524.7	434.1
97.5°	1257.2	1084.9
100°	1811.3	1606.0
102.5°	2356.4	2180.6
105°	3051.3	2956.9
107.5°	3506.6	3529.4
110°	3680.2	3778.6

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	3695.7	3846.8
115°	3597.7	3807.3
117.5°	3389.9	3622.4
120°	3222.5	3448.3
122.5°	3059.4	3282.2
125°	2826.8	3032.0
127.5°	2617.6	2790.7
130°	2494.3	2654.2
132.5°	2382.4	2525.7
135°	2229.2	2352.6
137.5°	2106.2	2207.3
140°	2021.8	2116.3
142.5°	1951.8	2033.2
145°	1847.1	1908.6
147.5°	1766.7	1817.7
150°	1716.0	1757.3
152.5°	1672.7	1703.9
155°	1622.9	1643.6
157.5°	1583.6	1598.1
160°	1560.0	1568.4
162.5°	1544.7	1552.6
165°	1522.5	1530.9
167.5°	1506.5	1510.0
170°	1502.1	1502.1
172.5°	1490.4	1487.3
175°	1483.4	1483.4
177.5°	1477.0	1473.5
180°	1473.5	1473.5

(END OF REPORT)