

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: P937397

Luminaire Tested: SQ4-FB-075U-125D-B35-1D-UNV-W2A-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937397
REPORT IS A COMBINATION OF REPORTS P933496 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-125D-B35-1D-UNV-W2A-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

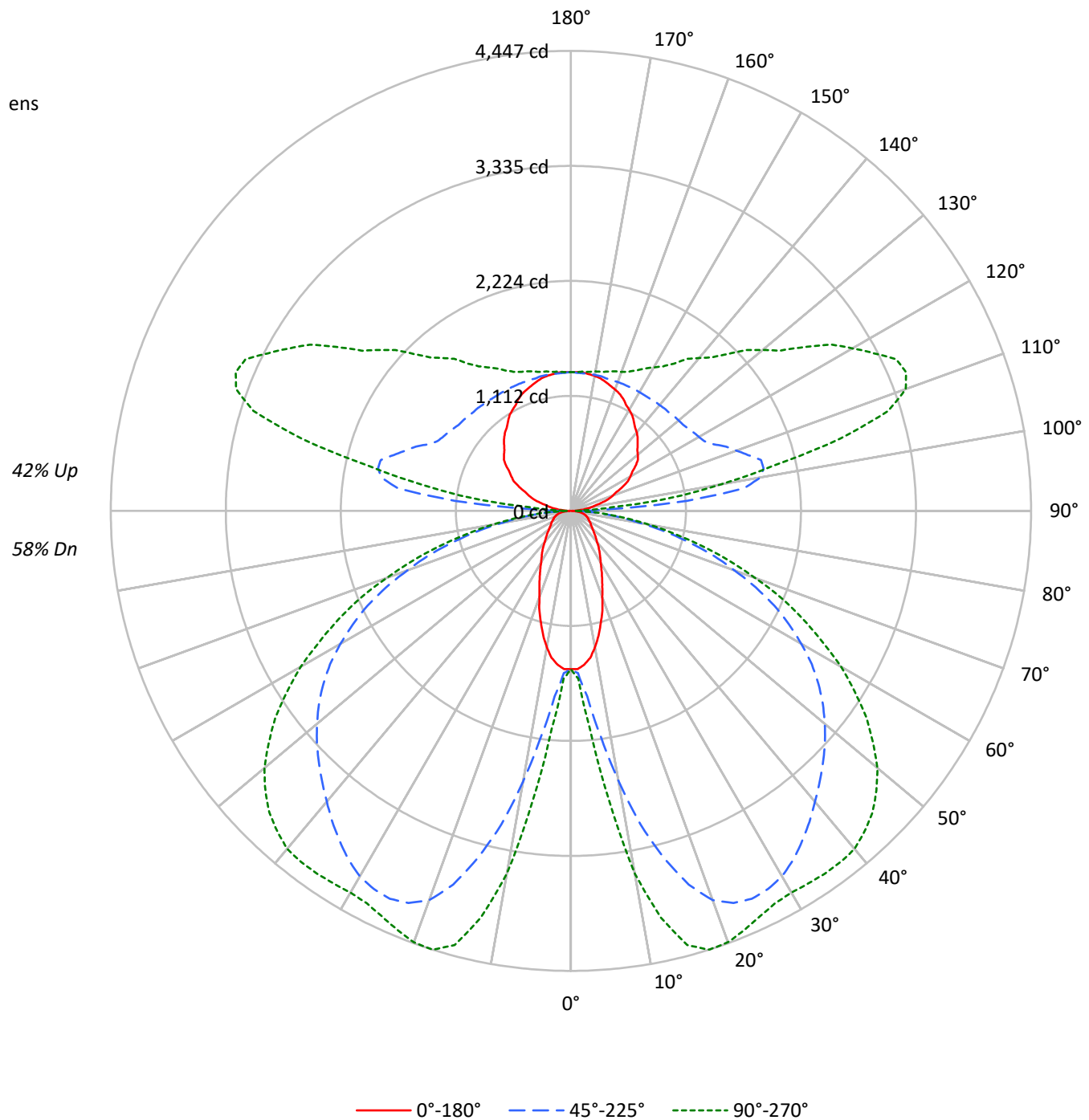
Lumens per Lamp: N/A
Luminaire Lumens: 20544.7 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 186
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	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63
1	99	94	90	86	92	88	84	81	76	73	71	65	63	61	55	53	52
2	89	82	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43
3	81	71	63	57	75	66	59	54	57	52	47	49	45	41	41	38	36
4	74	62	54	48	68	58	51	45	50	45	40	43	39	35	36	33	30
5	68	55	47	40	63	52	44	38	45	39	34	38	34	30	33	29	26
6	62	49	41	35	57	46	38	33	40	34	29	34	29	26	29	25	22
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17
9	49	36	28	23	46	34	27	22	30	24	20	26	21	17	22	18	15
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4732	4732	4732
5°	4624	5471	6361
10°	4197	7977	10545
15°	3568	10424	12733
20°	2906	12082	12977
25°	2425	12647	12713
30°	2046	12730	12689
35°	1810	12522	13017
40°	1578	12251	13357
45°	1430	12053	13409
50°	1313	11876	13187
55°	1258	11615	12602
60°	1290	11110	11679
65°	1344	10340	10411
70°	1435	9024	8795
75°	1596	7364	6864
80°	1757	5113	4625
85°	1594	2718	2367

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 13409 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	1.0
10°-20°	877.1	4.3
20°-30°	1534.2	7.5
30°-40°	1974.9	9.6
40°-50°	2205.9	10.7
50°-60°	2112.8	10.3
60°-70°	1674.4	8.1
70°-80°	984.6	4.8
80°-90°	278.7	1.4
90°-100°	654.5	3.2
100°-110°	1720.7	8.4
110°-120°	1784.2	8.7
120°-130°	1431.2	7.0
130°-140°	1122.9	5.5
140°-150°	861.9	4.2
150°-160°	620.7	3.0
160°-170°	379.8	1.8
170°-180°	128.3	0.6
0°-30°	2609.2	12.7
0°-40°	4584.1	22.3
0°-60°	8902.9	43.3
0°-90°	11840.5	57.6
90°-120°	4159.4	20.2
90°-150°	7575.4	36.9
90°-180°	8704.0	42.4
0°-180°	20544.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1490	1599	1800	2037	2110	138
15°	1117	2061	3473	4211	4344	311
25°	713	2337	4137	4319	4324	329
35°	482	2233	3896	4118	4280	301
45°	330	1781	3444	3945	4122	255
55°	236	1131	2922	3394	3488	215
65°	187	600	2169	2440	2474	185
75°	138	369	1190	1308	1314	144
85°	49	113	295	325	330	52
90°	9	25	68	34	34	11
95°	86	339	1127	581	396	96
105°	310	470	1902	2888	2694	329
115°	551	669	1524	3040	3469	544
125°	766	859	1386	2342	2763	680
135°	913	1005	1343	1891	2144	706
145°	1059	1126	1326	1613	1739	663
155°	1197	1230	1326	1455	1498	550
165°	1291	1308	1326	1378	1395	364
175°	1343	1343	1335	1352	1352	127
180°	1343	1343	1343	1343	1343	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1530.0	1530.0	1539.7	1544.7	1554.5	1559.4	1569.3	1579.1	1608.6	1613.6	1623.4
5°	1490.5	1510.2	1574.1	1598.8	1667.6	1761.2	1800.5	1864.5	1997.2	2036.6	2061.2
7.5°	1431.5	1475.8	1633.2	1672.6	1844.8	2090.7	2194.0	2331.8	2543.3	2646.6	2730.3
10°	1338.1	1431.5	1711.9	1805.3	2085.8	2459.6	2651.5	2843.3	3163.1	3305.7	3359.9
12.5°	1234.8	1387.2	1795.6	1923.5	2326.9	2872.9	3104.1	3315.6	3679.7	3871.5	3901.0
15°	1116.7	1323.3	1874.2	2061.2	2582.7	3217.3	3473.0	3733.8	4073.2	4211.0	4245.4
17.5°	1013.4	1274.1	1948.1	2144.8	2779.4	3527.2	3787.9	4004.3	4279.8	4373.3	4397.9
20°	885.5	1195.4	1997.2	2253.0	2986.1	3753.4	4004.3	4171.5	4358.6	4417.6	4427.4
22.5°	792.0	1111.7	2026.8	2292.4	3123.8	3891.2	4102.7	4235.5	4363.4	4383.1	4388.0
25°	713.3	1018.3	2021.8	2336.6	3241.8	3974.8	4137.1	4235.5	4309.3	4319.1	4319.1
27.5°	639.5	915.0	2002.1	2346.5	3330.4	3994.5	4122.4	4191.2	4225.7	4245.4	4245.4
30°	575.6	816.6	1952.9	2326.9	3369.7	3974.8	4078.1	4112.5	4147.0	4176.5	4191.2
32.5°	526.4	723.2	1879.2	2287.5	3374.6	3925.6	3999.5	4019.1	4068.2	4137.1	4161.8
35°	482.1	629.7	1795.6	2233.4	3345.2	3846.9	3896.1	3915.8	4014.2	4117.5	4151.9
37.5°	437.8	560.8	1687.3	2139.9	3300.9	3753.4	3787.9	3822.3	3974.8	4097.8	4137.1
40°	393.5	501.7	1559.4	2036.6	3232.0	3640.3	3669.8	3724.0	3925.6	4068.2	4107.6
42.5°	359.1	452.6	1421.7	1928.4	3143.4	3512.4	3556.7	3635.4	3866.6	4019.1	4063.4
45°	329.6	403.4	1274.1	1780.8	3030.3	3379.6	3443.5	3551.8	3797.7	3945.3	3984.6
47.5°	300.1	369.0	1121.6	1628.3	2907.3	3246.7	3330.4	3453.3	3704.3	3846.9	3881.3
50°	275.5	334.5	969.1	1466.0	2774.5	3104.1	3202.4	3330.4	3586.2	3719.0	3763.3
52.5°	255.8	305.0	826.5	1303.6	2622.0	2956.5	3069.7	3202.4	3443.5	3571.4	3600.9
55°	236.1	280.4	703.5	1131.4	2464.6	2799.1	2922.1	3050.0	3286.1	3394.3	3414.0
57.5°	226.3	260.8	600.2	969.1	2297.3	2622.0	2759.7	2877.8	3099.2	3182.8	3202.4
60°	211.5	245.9	521.4	831.4	2115.3	2454.8	2572.8	2690.9	2877.8	2946.6	2961.5
62.5°	196.8	236.1	462.4	698.6	1928.4	2258.0	2376.0	2484.2	2641.7	2690.9	2710.6
65°	186.9	226.3	418.1	600.2	1736.5	2051.4	2169.4	2262.9	2390.8	2439.9	2449.8
67.5°	177.1	216.5	383.7	516.6	1544.7	1844.8	1933.3	2021.8	2120.3	2169.4	2174.3
70°	162.3	206.6	354.2	457.5	1347.9	1608.6	1682.4	1775.9	1854.6	1879.2	1893.9
72.5°	152.5	191.9	334.5	413.2	1146.2	1382.4	1451.2	1505.3	1574.1	1598.8	1598.8
75°	137.7	172.2	314.8	369.0	939.5	1131.4	1190.5	1244.6	1298.7	1308.5	1293.8
77.5°	123.0	152.5	270.5	309.9	733.0	895.4	944.5	974.0	1018.3	1028.1	1033.1
80°	103.3	132.8	211.5	241.1	531.3	659.2	693.6	718.2	757.6	757.6	767.4
82.5°	78.7	103.3	152.5	172.2	359.1	452.6	482.1	496.8	521.4	521.4	521.4
85°	49.2	64.0	98.4	113.2	216.5	275.5	295.2	300.1	319.8	324.7	324.7
87.5°	24.6	34.4	64.0	68.9	113.2	142.6	142.6	152.5	152.5	147.6	142.6
90°	9.0	16.2	23.4	25.2	39.6	58.9	68.5	60.9	45.6	34.2	34.2
92.5°	36.0	97.3	158.6	173.9	244.5	338.6	385.7	338.0	242.7	171.2	164.4
95°	86.5	198.6	310.9	338.9	601.7	952.1	1127.3	1006.0	763.3	581.2	560.6
97.5°	149.6	248.5	347.5	372.2	810.5	1394.8	1686.9	1610.2	1456.8	1341.8	1302.5
100°	198.3	288.0	377.7	400.1	886.4	1534.8	1859.0	1864.6	1875.9	1884.3	1837.5
102.5°	239.7	323.5	407.1	428.0	921.2	1578.9	1907.8	2005.4	2200.9	2347.5	2307.5
105°	310.0	380.9	451.7	469.5	947.1	1583.9	1902.3	2121.4	2559.6	2888.2	2866.7
107.5°	382.1	448.2	514.2	530.8	951.9	1513.5	1794.2	2099.8	2711.0	3169.3	3174.5
110°	430.7	490.4	550.1	565.0	944.7	1451.0	1704.1	2045.8	2729.0	3241.4	3263.8

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	478.5	535.4	592.3	606.5	945.1	1396.4	1622.1	1971.7	2671.0	3195.5	3229.9
115°	550.6	603.0	655.5	668.6	953.7	1333.8	1523.8	1860.7	2534.3	3039.6	3087.3
117.5°	621.8	669.5	717.1	729.0	971.4	1294.6	1456.2	1760.2	2368.1	2824.2	2877.2
120°	663.3	708.1	752.9	764.2	985.9	1281.4	1429.2	1706.9	2262.4	2679.1	2730.5
122.5°	703.8	749.0	794.3	805.6	1006.6	1274.5	1408.4	1658.5	2158.8	2534.0	2584.8
125°	766.0	807.3	848.6	858.8	1034.5	1268.8	1386.0	1598.5	2023.4	2342.1	2388.9
127.5°	816.5	858.1	899.8	910.2	1062.5	1265.5	1367.1	1549.5	1914.4	2188.0	2227.4
130°	843.5	888.4	933.1	944.4	1082.9	1267.5	1359.8	1522.2	1847.0	2090.6	2127.1
132.5°	871.4	916.3	961.1	972.3	1099.3	1268.8	1353.5	1498.8	1789.6	2007.8	2040.4
135°	912.9	953.7	994.6	1004.8	1117.5	1267.6	1342.7	1464.4	1708.0	1890.6	1918.7
137.5°	955.2	995.6	1036.2	1046.2	1144.5	1275.4	1340.9	1443.8	1649.7	1804.1	1827.1
140°	990.3	1027.5	1064.8	1074.1	1161.0	1276.8	1334.6	1423.6	1601.4	1734.7	1756.2
142.5°	1017.4	1051.8	1086.2	1094.9	1174.8	1281.3	1334.6	1412.7	1568.9	1686.1	1704.6
145°	1058.8	1088.9	1118.9	1126.5	1192.8	1281.3	1325.6	1389.4	1517.3	1613.1	1627.1
147.5°	1100.3	1129.6	1158.8	1166.1	1219.3	1290.1	1325.6	1375.9	1476.4	1551.8	1563.4
150°	1127.3	1153.8	1180.2	1186.8	1233.1	1294.8	1325.6	1368.0	1452.9	1516.6	1526.0
152.5°	1155.2	1175.3	1195.3	1200.3	1242.1	1297.8	1325.6	1361.8	1434.3	1488.7	1495.7
155°	1196.7	1211.5	1226.4	1230.0	1261.9	1304.4	1325.6	1354.5	1412.1	1455.3	1460.1
157.5°	1227.3	1241.8	1256.2	1259.8	1281.7	1311.0	1325.6	1348.0	1392.8	1426.5	1429.8
160°	1248.1	1259.3	1270.6	1273.4	1290.8	1314.0	1325.6	1344.8	1383.2	1412.1	1414.1
162.5°	1268.8	1277.2	1285.6	1287.7	1300.3	1317.2	1325.6	1341.8	1374.2	1398.6	1400.4
165°	1291.4	1298.9	1306.5	1308.4	1314.2	1321.8	1325.6	1337.2	1360.4	1377.8	1379.8
167.5°	1312.0	1315.6	1319.3	1320.2	1325.0	1331.4	1334.6	1342.2	1357.4	1368.8	1369.6
170°	1325.6	1329.2	1332.9	1333.7	1334.0	1334.4	1334.6	1342.2	1357.4	1368.8	1368.8
172.5°	1332.8	1333.5	1334.4	1334.6	1334.6	1334.6	1334.6	1340.6	1352.6	1361.6	1361.0
175°	1342.7	1342.7	1342.7	1342.7	1340.0	1336.4	1334.6	1338.4	1346.0	1351.8	1351.8
177.5°	1342.7	1342.7	1342.7	1342.7	1340.6	1337.8	1336.4	1339.4	1345.5	1349.9	1349.1
180°	1342.7	1342.7	1342.7	1342.7	1342.7	1342.7	1342.7	1342.7	1342.7	1342.7	1342.7

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	1530.0	1530.0
2.5°	1633.2	1623.4
5°	2100.6	2110.4
7.5°	2828.6	2823.7
10°	3517.3	3561.6
12.5°	4019.1	4028.9
15°	4324.1	4343.7
17.5°	4442.2	4447.0
20°	4447.0	4437.2
22.5°	4393.0	4383.1
25°	4329.0	4324.1
27.5°	4270.0	4274.9
30°	4245.4	4260.1
32.5°	4245.4	4270.0
35°	4255.2	4279.8
37.5°	4250.3	4279.8
40°	4230.7	4265.1
42.5°	4176.5	4201.1
45°	4092.9	4122.4
47.5°	3984.6	4004.3
50°	3846.9	3866.6
52.5°	3674.7	3679.7
55°	3468.1	3487.8
57.5°	3246.7	3251.7
60°	3000.8	3015.5
62.5°	2740.0	2740.0
65°	2464.6	2474.4
67.5°	2179.3	2203.9
70°	1889.1	1893.9
72.5°	1603.7	1603.7
75°	1308.5	1313.5
77.5°	1028.1	1028.1
80°	762.5	767.4
82.5°	526.4	536.2
85°	329.6	329.6
87.5°	152.5	137.7
90°	34.2	34.2
92.5°	137.2	110.0
95°	478.1	395.6
97.5°	1145.6	988.6
100°	1650.5	1463.5
102.5°	2147.2	1987.0
105°	2780.5	2694.4
107.5°	3195.4	3216.2
110°	3353.5	3443.2

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	3367.7	3505.5
115°	3278.3	3469.4
117.5°	3089.0	3300.9
120°	2936.5	3142.3
122.5°	2787.8	2990.9
125°	2575.9	2762.9
127.5°	2385.3	2543.0
130°	2272.9	2418.7
132.5°	2170.9	2301.6
135°	2031.3	2143.8
137.5°	1919.2	2011.4
140°	1842.4	1928.4
142.5°	1778.7	1852.7
145°	1683.2	1739.2
147.5°	1609.8	1656.3
150°	1563.7	1601.4
152.5°	1524.2	1552.6
155°	1478.9	1497.7
157.5°	1443.0	1456.2
160°	1421.6	1429.2
162.5°	1407.6	1414.8
165°	1387.3	1395.0
167.5°	1372.9	1376.1
170°	1368.8	1368.8
172.5°	1358.2	1355.3
175°	1351.8	1351.8
177.5°	1345.9	1342.7
180°	1342.7	1342.7

(END OF REPORT)