

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: P938201

Luminaire Tested: SQ4-FB-125U-125D-B40-1D-UNV-W2A-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938201
REPORT IS A COMBINATION OF REPORTS P933592 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-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

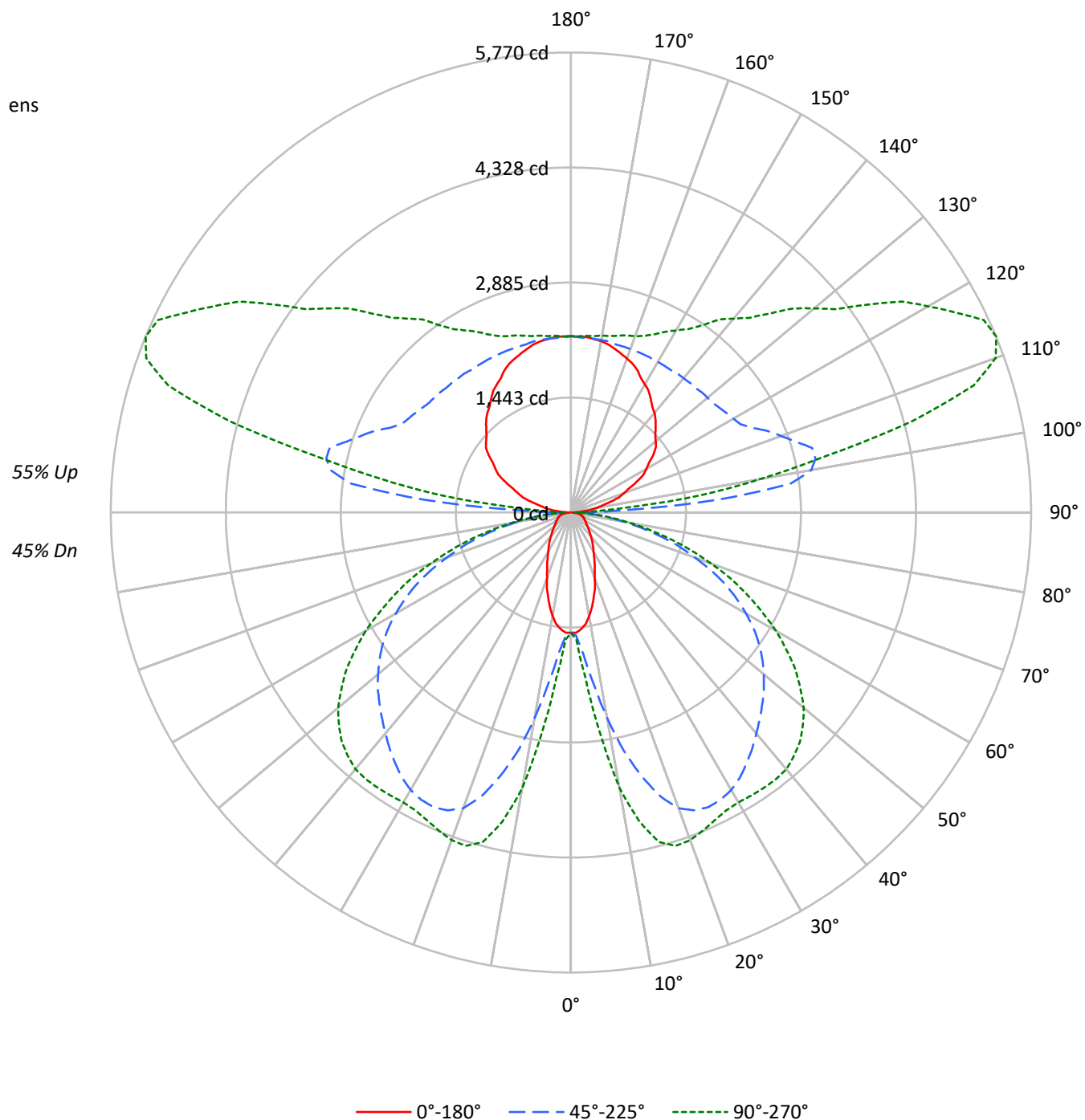
Lumens per Lamp: N/A
Luminaire Lumens: 26000.8 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 225.6
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°	4558	5392	6269
10°	4136	7861	10393
15°	3516	10273	12549
20°	2864	11908	12789
25°	2390	12464	12529
30°	2016	12546	12506
35°	1784	12341	12829
40°	1555	12074	13163
45°	1409	11879	13215
50°	1294	11704	12996
55°	1240	11448	12420
60°	1271	10950	11511
65°	1324	10191	10261
70°	1415	8893	8668
75°	1573	7258	6765
80°	1731	5039	4559
85°	1572	2678	2333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 13215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	0.8
10°-20°	864.4	3.3
20°-30°	1512.0	5.8
30°-40°	1946.4	7.5
40°-50°	2174.1	8.4
50°-60°	2082.3	8.0
60°-70°	1650.2	6.3
70°-80°	970.4	3.7
80°-90°	278.0	1.1
90°-100°	1077.4	4.1
100°-110°	2832.5	10.9
110°-120°	2937.0	11.3
120°-130°	2355.8	9.1
130°-140°	1848.5	7.1
140°-150°	1418.8	5.5
150°-160°	1021.8	3.9
160°-170°	625.2	2.4
170°-180°	211.2	0.8
0°-30°	2571.5	9.9
0°-40°	4517.9	17.4
0°-60°	8774.2	33.7
0°-90°	11672.8	44.9
90°-120°	6846.8	26.3
90°-150°	12469.9	48.0
90°-180°	14328.0	55.1
0°-180°	26000.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1469	1576	1774	2007	2080	136
15°	1100	2031	3423	4150	4281	306
25°	703	2303	4077	4257	4262	324
35°	475	2201	3840	4058	4218	297
45°	325	1755	3394	3888	4063	251
55°	233	1115	2880	3345	3437	212
65°	184	592	2138	2405	2439	183
75°	136	364	1173	1290	1294	142
85°	48	112	291	320	325	51
90°	15	42	113	56	56	16
95°	142	558	1856	957	651	158
105°	510	773	3131	4754	4435	541
115°	906	1101	2508	5003	5711	895
125°	1261	1414	2281	3855	4548	1119
135°	1503	1654	2210	3112	3529	1163
145°	1743	1854	2182	2655	2863	1092
155°	1970	2025	2182	2396	2465	905
165°	2126	2154	2182	2268	2296	600
175°	2210	2210	2197	2225	2225	210
180°	2210	2210	2210	2210	2210	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1507.8	1507.8	1507.8	1507.8	1507.8	1507.8	1507.8	1507.8	1507.8	1507.8	1507.8
2.5°	1507.8	1507.8	1517.5	1522.4	1532.0	1536.9	1546.6	1556.3	1585.4	1590.3	1599.9
5°	1469.0	1488.4	1551.4	1575.7	1643.6	1735.7	1774.5	1837.5	1968.4	2007.2	2031.4
7.5°	1410.8	1454.5	1609.7	1648.4	1818.1	2060.5	2162.3	2298.1	2506.6	2608.4	2690.8
10°	1318.8	1410.8	1687.2	1779.3	2055.6	2424.1	2613.2	2802.3	3117.4	3258.0	3311.4
12.5°	1217.0	1367.2	1769.6	1895.7	2293.2	2831.4	3059.2	3267.7	3626.5	3815.6	3844.6
15°	1100.5	1304.1	1847.2	2031.4	2545.4	3170.8	3422.8	3679.8	4014.3	4150.1	4184.0
17.5°	998.7	1255.7	1919.9	2113.8	2739.2	3476.2	3733.2	3946.4	4217.9	4310.1	4334.4
20°	872.7	1178.1	1968.4	2220.5	2942.9	3699.2	3946.4	4111.3	4295.6	4353.7	4363.4
22.5°	780.5	1095.7	1997.5	2259.2	3078.6	3835.0	4043.5	4174.3	4300.4	4319.8	4324.6
25°	703.0	1003.6	1992.6	2302.9	3195.0	3917.4	4077.4	4174.3	4247.1	4256.7	4256.7
27.5°	630.3	901.8	1973.2	2312.6	3282.2	3936.8	4062.9	4130.7	4164.7	4184.0	4184.0
30°	567.3	804.8	1924.7	2293.2	3321.0	3917.4	4019.2	4053.1	4087.1	4116.1	4130.7
32.5°	518.8	712.7	1852.0	2254.5	3325.9	3868.9	3941.7	3961.1	4009.5	4077.4	4101.6
35°	475.1	620.6	1769.6	2201.1	3296.9	3791.4	3839.8	3859.3	3956.2	4058.0	4091.9
37.5°	431.5	552.7	1662.9	2109.0	3253.2	3699.2	3733.2	3767.1	3917.4	4038.6	4077.4
40°	387.8	494.5	1536.9	2007.2	3185.3	3587.7	3616.8	3670.2	3868.9	4009.5	4048.2
42.5°	353.9	446.1	1401.2	1900.5	3098.0	3461.7	3505.3	3582.9	3810.7	3961.1	4004.7
45°	324.8	397.6	1255.7	1755.1	2986.5	3330.8	3393.8	3500.5	3742.8	3888.3	3927.1
47.5°	295.8	363.7	1105.4	1604.8	2865.3	3199.8	3282.2	3403.4	3650.8	3791.4	3825.3
50°	271.5	329.7	955.1	1444.8	2734.5	3059.2	3156.2	3282.2	3534.4	3665.3	3708.9
52.5°	252.1	300.6	814.5	1284.8	2584.1	2913.8	3025.3	3156.2	3393.8	3519.8	3548.9
55°	232.7	276.4	693.3	1115.1	2428.9	2758.6	2879.9	3006.0	3238.6	3345.3	3364.7
57.5°	223.0	257.0	591.5	955.1	2264.1	2584.1	2719.8	2836.3	3054.4	3136.8	3156.2
60°	208.5	242.4	513.9	819.4	2084.8	2419.3	2535.6	2652.0	2836.3	2904.1	2918.7
62.5°	194.0	232.7	455.7	688.5	1900.5	2225.3	2341.7	2448.3	2603.5	2652.0	2671.4
65°	184.2	223.0	412.1	591.5	1711.5	2021.7	2138.1	2230.2	2356.3	2404.7	2414.4
67.5°	174.6	213.3	378.2	509.1	1522.4	1818.1	1905.3	1992.6	2089.6	2138.1	2142.9
70°	160.0	203.6	349.1	450.9	1328.4	1585.4	1658.1	1750.2	1827.8	1852.0	1866.5
72.5°	150.3	189.1	329.7	407.2	1129.7	1362.4	1430.2	1483.6	1551.4	1575.7	1575.7
75°	135.7	169.7	310.3	363.7	926.0	1115.1	1173.3	1226.6	1279.9	1289.6	1275.1
77.5°	121.2	150.3	266.6	305.4	722.4	882.4	930.8	960.0	1003.6	1013.3	1018.1
80°	101.8	130.9	208.5	237.6	523.6	649.7	683.6	707.8	746.6	746.6	756.4
82.5°	77.5	101.8	150.3	169.7	353.9	446.1	475.1	489.6	513.9	513.9	513.9
85°	48.5	63.0	96.9	111.5	213.3	271.5	290.9	295.8	315.2	320.0	320.0
87.5°	24.3	33.9	63.0	67.9	111.5	140.6	140.6	150.3	150.3	145.4	140.6
90°	14.8	26.6	38.6	41.5	65.2	96.8	112.7	100.2	75.2	56.3	56.3
92.5°	59.3	160.2	261.1	286.3	402.5	557.4	634.9	556.4	399.5	281.8	270.6
95°	142.4	327.0	511.6	557.7	990.3	1567.3	1855.7	1655.9	1256.4	956.8	922.8
97.5°	246.2	409.0	571.9	612.6	1334.0	2295.9	2776.9	2650.6	2398.1	2208.7	2144.1
100°	326.3	474.1	621.7	658.7	1459.1	2526.5	3060.2	3069.5	3087.9	3101.7	3024.8
102.5°	394.6	532.4	670.1	704.6	1516.5	2599.0	3140.3	3301.1	3622.9	3864.2	3798.3
105°	510.3	627.0	743.7	772.9	1559.0	2607.2	3131.3	3492.0	4213.3	4754.2	4718.8
107.5°	629.0	737.7	846.5	873.7	1567.0	2491.3	2953.4	3456.4	4462.4	5217.0	5225.6
110°	709.1	807.3	905.5	930.1	1555.0	2388.4	2805.0	3367.4	4492.1	5335.7	5372.6

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	787.7	881.3	974.9	998.3	1555.5	2298.6	2670.1	3245.7	4396.7	5260.0	5316.8
115°	906.3	992.6	1079.1	1100.6	1569.9	2195.5	2508.4	3062.9	4171.7	5003.4	5082.0
117.5°	1023.6	1102.0	1180.5	1200.1	1599.1	2131.1	2397.1	2897.6	3898.3	4648.8	4736.0
120°	1091.8	1165.6	1239.5	1257.9	1622.8	2109.4	2352.6	2809.9	3724.3	4410.1	4494.8
122.5°	1158.5	1233.0	1307.5	1326.1	1656.9	2098.0	2318.5	2730.2	3553.7	4171.2	4254.8
125°	1260.9	1328.8	1396.7	1413.7	1703.0	2088.6	2281.4	2631.1	3330.7	3855.2	3932.2
127.5°	1344.0	1412.5	1481.1	1498.2	1748.9	2083.1	2250.3	2550.5	3151.1	3601.6	3666.5
130°	1388.5	1462.3	1536.1	1554.5	1782.5	2086.5	2238.4	2505.7	3040.4	3441.4	3501.4
132.5°	1434.4	1508.2	1582.1	1600.6	1809.7	2088.6	2228.0	2467.3	2946.0	3305.0	3358.7
135°	1502.7	1569.9	1637.2	1654.0	1839.4	2086.7	2210.3	2410.7	2811.5	3112.2	3158.5
137.5°	1572.4	1639.0	1705.5	1722.2	1883.8	2099.5	2207.3	2376.7	2715.5	2969.7	3007.6
140°	1630.2	1691.5	1752.8	1768.2	1911.1	2101.6	2196.9	2343.2	2635.9	2855.4	2890.9
142.5°	1674.7	1731.4	1788.1	1802.3	1933.8	2109.2	2196.9	2325.4	2582.6	2775.4	2805.9
145°	1743.0	1792.4	1841.9	1854.2	1963.5	2109.2	2182.1	2287.2	2497.5	2655.2	2678.3
147.5°	1811.2	1859.3	1907.4	1919.5	2007.0	2123.7	2182.1	2264.8	2430.3	2554.3	2573.4
150°	1855.7	1899.2	1942.8	1953.6	2029.8	2131.3	2182.1	2252.0	2391.7	2496.5	2511.9
152.5°	1901.7	1934.6	1967.7	1975.9	2044.7	2136.2	2182.1	2241.8	2361.0	2450.5	2462.3
155°	1969.9	1994.3	2018.7	2024.8	2077.2	2147.1	2182.1	2229.5	2324.5	2395.6	2403.4
157.5°	2020.4	2044.1	2067.9	2073.8	2109.9	2158.0	2182.1	2218.9	2292.8	2348.2	2353.6
160°	2054.5	2072.9	2091.4	2096.0	2124.7	2163.0	2182.1	2213.7	2277.0	2324.5	2327.6
162.5°	2088.6	2102.4	2116.3	2119.7	2140.5	2168.2	2182.1	2208.8	2262.2	2302.2	2305.2
165°	2125.6	2138.1	2150.7	2153.8	2163.3	2175.8	2182.1	2201.2	2239.4	2268.0	2271.2
167.5°	2159.8	2165.7	2171.7	2173.1	2181.0	2191.6	2196.9	2209.4	2234.4	2253.2	2254.6
170°	2182.1	2188.0	2193.9	2195.4	2195.8	2196.5	2196.9	2209.4	2234.4	2253.2	2253.2
172.5°	2193.9	2195.3	2196.6	2196.9	2196.9	2196.9	2196.9	2206.8	2226.6	2241.4	2240.2
175°	2210.3	2210.3	2210.3	2210.3	2205.8	2199.8	2196.9	2203.2	2215.7	2225.1	2225.1
177.5°	2210.3	2210.3	2210.3	2210.3	2206.8	2202.1	2199.8	2204.8	2214.6	2222.1	2220.8
180°	2210.3	2210.3	2210.3	2210.3	2210.3	2210.3	2210.3	2210.3	2210.3	2210.3	2210.3

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	1507.8	1507.8
2.5°	1609.7	1599.9
5°	2070.2	2079.9
7.5°	2787.7	2782.9
10°	3466.5	3510.1
12.5°	3961.1	3970.7
15°	4261.6	4281.0
17.5°	4378.0	4382.8
20°	4382.8	4373.1
22.5°	4329.5	4319.8
25°	4266.5	4261.6
27.5°	4208.3	4213.2
30°	4184.0	4198.6
32.5°	4184.0	4208.3
35°	4193.7	4217.9
37.5°	4188.9	4217.9
40°	4169.5	4203.4
42.5°	4116.1	4140.4
45°	4033.7	4062.9
47.5°	3927.1	3946.4
50°	3791.4	3810.7
52.5°	3621.6	3626.5
55°	3418.0	3437.4
57.5°	3199.8	3204.7
60°	2957.4	2972.0
62.5°	2700.5	2700.5
65°	2428.9	2438.7
67.5°	2147.8	2172.1
70°	1861.8	1866.5
72.5°	1580.5	1580.5
75°	1289.6	1294.5
77.5°	1013.3	1013.3
80°	751.5	756.4
82.5°	518.8	528.5
85°	324.8	324.8
87.5°	150.3	135.7
90°	56.3	56.3
92.5°	225.8	181.0
95°	787.0	651.2
97.5°	1885.6	1627.2
100°	2716.9	2409.0
102.5°	3534.6	3270.9
105°	4577.0	4435.3
107.5°	5259.9	5294.1
110°	5520.3	5667.9

TEST NUMBER: P938201

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	5543.5	5770.3
115°	5396.5	5711.0
117.5°	5084.8	5433.6
120°	4833.6	5172.5
122.5°	4589.1	4923.3
125°	4240.1	4548.0
127.5°	3926.3	4186.1
130°	3741.4	3981.4
132.5°	3573.6	3788.5
135°	3343.6	3528.9
137.5°	3159.2	3310.9
140°	3032.7	3174.4
142.5°	2927.8	3049.8
145°	2770.6	2862.9
147.5°	2649.9	2726.4
150°	2574.0	2636.0
152.5°	2509.1	2555.9
155°	2434.4	2465.3
157.5°	2375.4	2397.1
160°	2340.1	2352.6
162.5°	2317.0	2328.9
165°	2283.7	2296.3
167.5°	2259.8	2265.1
170°	2253.2	2253.2
172.5°	2235.6	2231.0
175°	2225.1	2225.1
177.5°	2215.5	2210.3
180°	2210.3	2210.3

(END OF REPORT)