

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: P938197

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938197
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-B35-1D-UNV-W2A-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

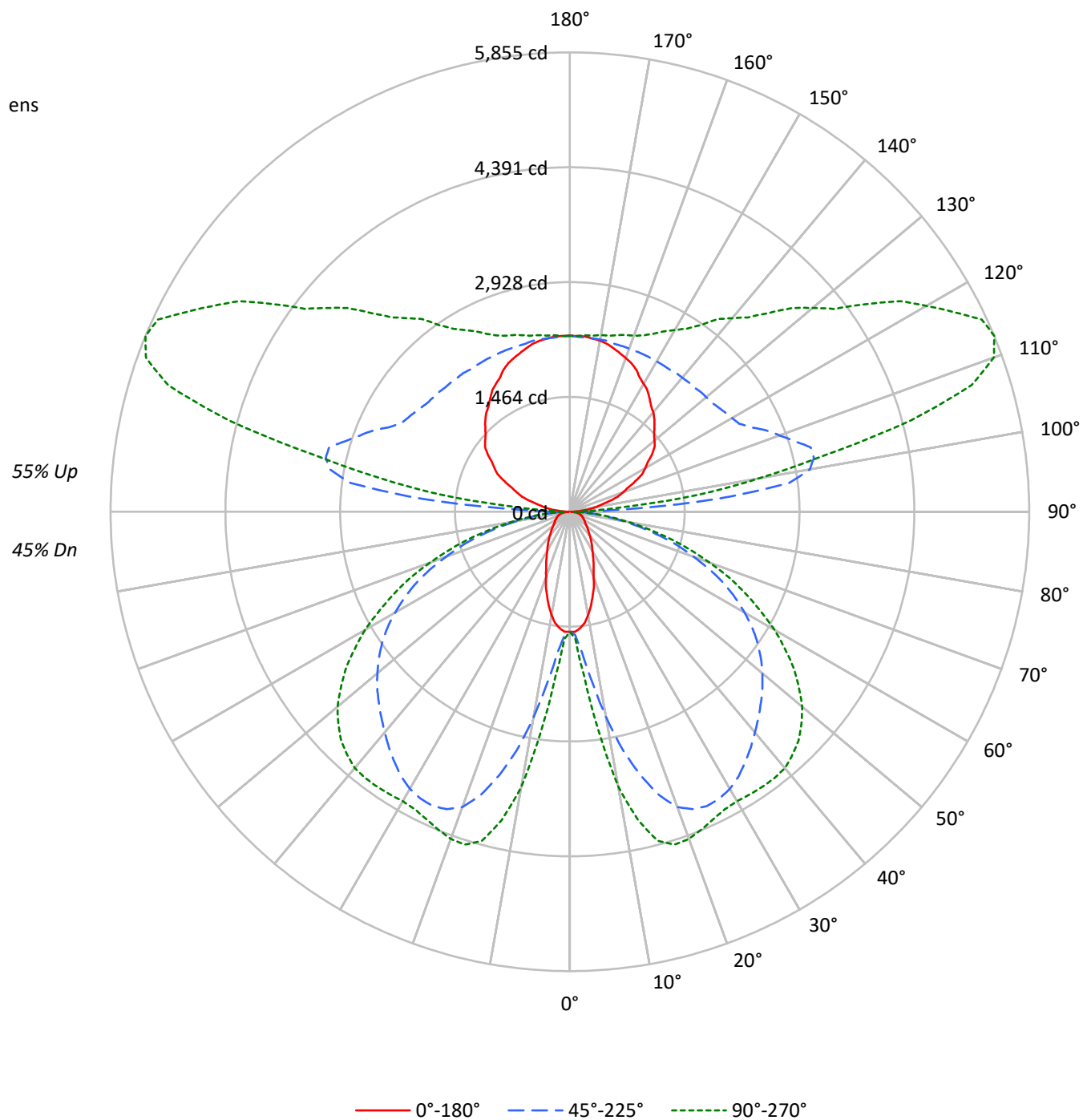
Lumens per Lamp: N/A
Luminaire Lumens: 26382.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P938197

CATALOG NUMBER: SQ4-FB-125U-125D-B35-1D-UNV-W2A-W-12

Luminous Intensity Polar Plot



TEST NUMBER: P938197

CATALOG NUMBER: SQ4-FB-125U-125D-B35-1D-UNV-W2A-W-12

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°	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

TEST NUMBER: P938197

CATALOG NUMBER: SQ4-FB-125U-125D-B35-1D-UNV-W2A-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	0.8
10°-20°	877.1	3.3
20°-30°	1534.2	5.8
30°-40°	1974.9	7.5
40°-50°	2205.9	8.4
50°-60°	2112.8	8.0
60°-70°	1674.4	6.3
70°-80°	984.6	3.7
80°-90°	282.1	1.1
90°-100°	1093.2	4.1
100°-110°	2874.0	10.9
110°-120°	2980.0	11.3
120°-130°	2390.3	9.1
130°-140°	1875.6	7.1
140°-150°	1439.6	5.5
150°-160°	1036.7	3.9
160°-170°	634.3	2.4
170°-180°	214.3	0.8
0°-30°	2609.2	9.9
0°-40°	4584.1	17.4
0°-60°	8902.9	33.7
0°-90°	11843.9	44.9
90°-120°	6947.2	26.3
90°-150°	12652.7	48.0
90°-180°	14538.0	55.1
0°-180°	26382.0	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°	15	42	114	57	57	16
95°	144	566	1883	971	661	160
105°	518	784	3177	4824	4500	549
115°	920	1117	2545	5077	5795	908
125°	1279	1434	2315	3912	4615	1136
135°	1525	1678	2243	3158	3581	1180
145°	1768	1881	2214	2694	2905	1108
155°	1999	2054	2214	2431	2502	918
165°	2157	2185	2214	2301	2330	609
175°	2243	2243	2229	2258	2258	213
180°	2243	2243	2243	2243	2243	

TEST NUMBER: P938197

CATALOG NUMBER: SQ4-FB-125U-125D-B35-1D-UNV-W2A-W-12

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°	15.0	27.0	39.1	42.2	66.2	98.3	114.3	101.6	76.3	57.2	57.2
92.5°	60.2	162.5	264.9	290.5	408.4	565.6	644.2	564.5	405.3	286.0	274.6
95°	144.5	331.8	519.1	565.9	1004.9	1590.2	1882.9	1680.1	1274.8	970.8	936.3
97.5°	249.8	415.0	580.3	621.6	1353.6	2329.6	2817.6	2689.5	2433.3	2241.1	2175.5
100°	331.1	481.0	630.8	668.3	1480.5	2563.6	3105.1	3114.5	3133.2	3147.2	3069.1
102.5°	400.4	540.2	679.9	714.9	1538.8	2637.1	3186.4	3349.5	3676.0	3920.9	3854.0
105°	517.7	636.1	754.6	784.2	1581.9	2645.5	3177.3	3543.1	4275.0	4823.9	4787.9
107.5°	638.2	748.6	858.9	886.5	1589.9	2527.8	2996.7	3507.1	4527.8	5293.5	5302.2
110°	719.5	819.1	918.8	943.7	1577.8	2423.4	2846.1	3416.8	4558.0	5413.9	5451.4

TEST NUMBER: P938197

CATALOG NUMBER: SQ4-FB-125U-125D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	799.2	894.2	989.2	1012.9	1578.3	2332.3	2709.2	3293.2	4461.2	5337.2	5394.7
115°	919.6	1007.2	1094.9	1116.8	1592.9	2227.7	2545.2	3107.8	4232.9	5076.8	5156.5
117.5°	1038.6	1118.1	1197.8	1217.6	1622.5	2162.3	2432.3	2940.0	3955.5	4717.0	4805.5
120°	1107.8	1182.7	1257.7	1276.4	1646.6	2140.3	2387.1	2851.1	3778.9	4474.7	4560.7
122.5°	1175.5	1251.1	1326.7	1345.6	1681.2	2128.8	2352.5	2770.3	3605.7	4232.4	4317.2
125°	1279.4	1348.3	1417.2	1434.4	1727.9	2119.2	2314.8	2669.7	3379.5	3911.8	3989.9
127.5°	1363.7	1433.2	1502.8	1520.2	1774.5	2113.7	2283.3	2587.9	3197.3	3654.4	3720.3
130°	1408.8	1483.7	1558.6	1577.3	1808.6	2117.1	2271.2	2542.5	3085.0	3491.9	3552.7
132.5°	1455.4	1530.3	1605.3	1624.0	1836.3	2119.2	2260.7	2503.5	2989.2	3353.4	3408.0
135°	1524.7	1592.9	1661.2	1678.2	1866.4	2117.3	2242.7	2446.0	2852.7	3157.8	3204.8
137.5°	1595.5	1663.0	1730.5	1747.4	1911.4	2130.2	2239.6	2411.6	2755.4	3013.2	3051.7
140°	1654.1	1716.3	1778.5	1794.1	1939.1	2132.4	2229.1	2377.5	2674.5	2897.3	2933.3
142.5°	1699.2	1756.8	1814.4	1828.7	1962.1	2140.1	2229.1	2359.5	2620.5	2816.1	2847.0
145°	1768.5	1818.7	1868.9	1881.4	1992.3	2140.1	2214.1	2320.8	2534.1	2694.1	2717.6
147.5°	1837.7	1886.5	1935.4	1947.6	2036.5	2154.9	2214.1	2298.0	2465.9	2591.8	2611.2
150°	1882.9	1927.1	1971.2	1982.3	2059.5	2162.5	2214.1	2285.0	2426.8	2533.1	2548.8
152.5°	1929.6	1963.0	1996.5	2004.9	2074.6	2167.6	2214.1	2274.6	2395.7	2486.5	2498.4
155°	1998.8	2023.6	2048.3	2054.5	2107.7	2178.6	2214.1	2262.2	2358.5	2430.7	2438.6
157.5°	2050.0	2074.0	2098.2	2104.2	2140.8	2189.6	2214.1	2251.5	2326.4	2382.6	2388.1
160°	2084.6	2103.3	2122.1	2126.8	2155.8	2194.7	2214.1	2246.1	2310.4	2358.5	2361.7
162.5°	2119.2	2133.3	2147.3	2150.8	2171.9	2200.0	2214.1	2241.2	2295.4	2336.0	2339.0
165°	2156.8	2169.5	2182.2	2185.4	2195.0	2207.7	2214.1	2233.4	2272.2	2301.3	2304.5
167.5°	2191.5	2197.5	2203.5	2205.0	2213.0	2223.8	2229.1	2241.8	2267.2	2286.3	2287.6
170°	2214.1	2220.1	2226.1	2227.5	2228.0	2228.7	2229.1	2241.8	2267.2	2286.3	2286.3
172.5°	2226.1	2227.4	2228.8	2229.1	2229.1	2229.1	2229.1	2239.2	2259.2	2274.2	2273.1
175°	2242.7	2242.7	2242.7	2242.7	2238.1	2232.1	2229.1	2235.5	2248.2	2257.7	2257.7
177.5°	2242.7	2242.7	2242.7	2242.7	2239.2	2234.4	2232.1	2237.1	2247.1	2254.7	2253.3
180°	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7	2242.7



TEST NUMBER: P938197

CATALOG NUMBER: SQ4-FB-125U-125D-B35-1D-UNV-W2A-W-12

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°	57.2	57.2
92.5°	229.1	183.6
95°	798.6	660.8
97.5°	1913.3	1651.1
100°	2756.7	2444.3
102.5°	3586.4	3318.8
105°	4644.1	4500.3
107.5°	5337.0	5371.7
110°	5601.2	5751.0

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CATALOG NUMBER: SQ4-FB-125U-125D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	5624.8	5854.9
115°	5475.6	5794.7
117.5°	5159.3	5513.2
120°	4904.5	5248.3
122.5°	4656.3	4995.5
125°	4302.3	4614.7
127.5°	3983.8	4247.4
130°	3796.3	4039.8
132.5°	3626.0	3844.0
135°	3392.7	3580.6
137.5°	3205.5	3359.4
140°	3077.2	3221.0
142.5°	2970.8	3094.5
145°	2811.2	2904.9
147.5°	2688.8	2766.4
150°	2611.7	2674.6
152.5°	2545.9	2593.3
155°	2470.1	2501.5
157.5°	2410.2	2432.3
160°	2374.4	2387.1
162.5°	2351.0	2363.0
165°	2317.2	2330.0
167.5°	2292.9	2298.3
170°	2286.3	2286.3
172.5°	2268.3	2263.7
175°	2257.7	2257.7
177.5°	2248.0	2242.7
180°	2242.7	2242.7

(END OF REPORT)