

Scaled data based on original data using
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact
Fluorescent Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: 253P139

Luminaire Tested: **1270-26-CFL/6/27**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P139
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1270-26-CFL/6/27
Description: SHAPER 26 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE
Light Source: SIX 24 WATT GX24 T4 COMPACT FLUORESCENT LAMPS
(6)FT24DL/830 - 1800 LUMENS - 24 WATTS
Ballast/Driver: -

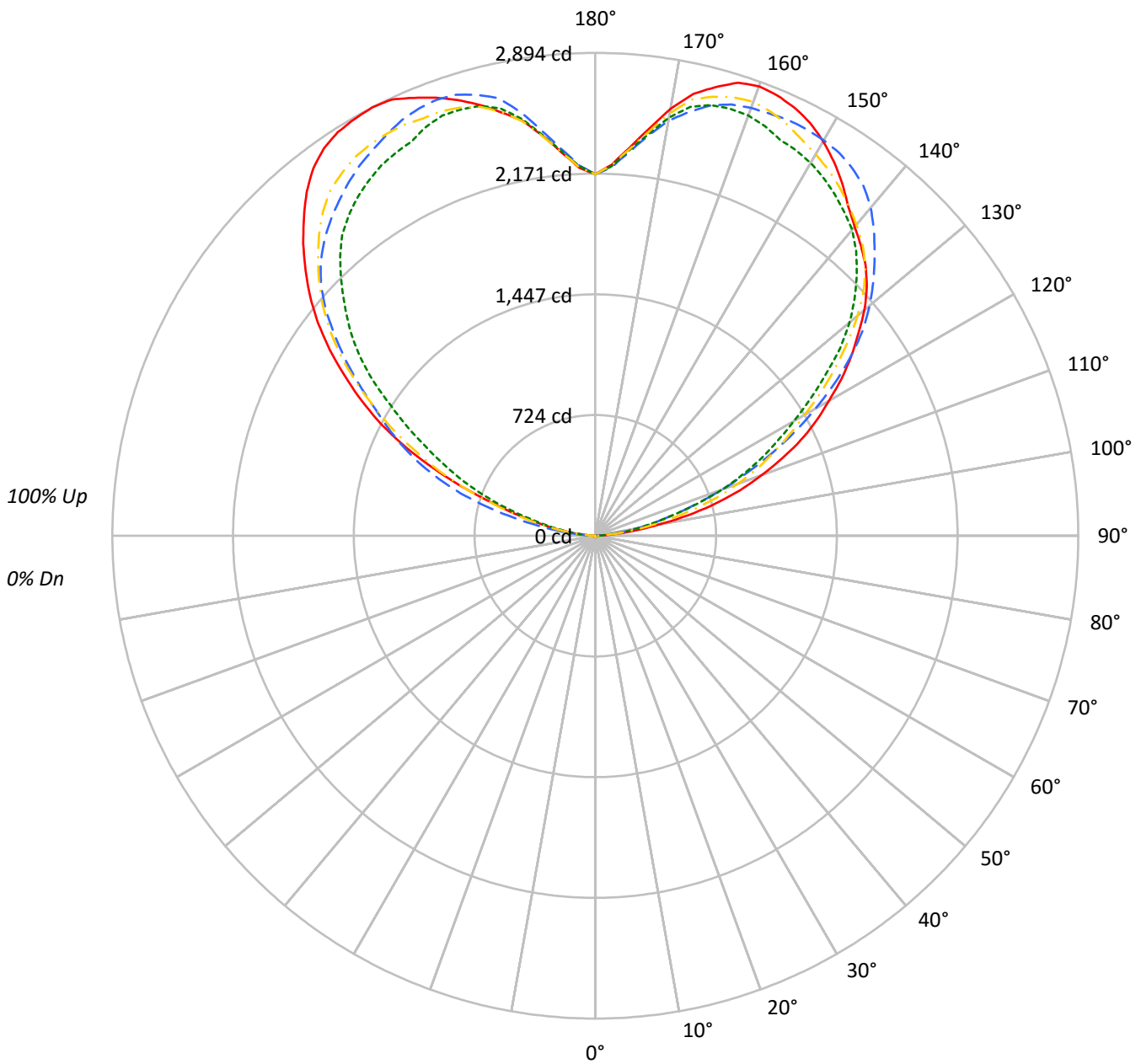
Summary

Lumens per Lamp: 1800 (6 lamps)
Luminaire Lumens: 9184.2 lumens
Efficiency: 85.0%
Efficacy: 51.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 1.24 / 1.33
Luminous Opening: Circular (Dia: 2.17' x H: 0')
CIE Type: Indirect

Input Watts (W): 177
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: 25 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - · 90°-270° - · - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	81	81	81	81	69	69	69	69	47	47	47	27	27	27	9	9	9	0
1	74	70	67	64	63	60	58	56	41	40	38	24	23	22	8	8	7	0
2	67	61	57	53	57	52	49	45	36	34	32	21	20	19	7	6	6	0
3	61	54	48	44	52	46	41	38	32	29	27	18	17	16	6	6	5	0
4	56	47	41	37	47	41	36	32	28	25	22	16	15	13	5	5	4	0
5	51	42	36	31	43	36	31	27	25	22	19	14	13	11	5	4	4	0
6	47	37	31	26	40	32	27	23	22	19	16	13	11	10	4	4	3	0
7	43	33	27	23	36	29	24	20	20	17	14	12	10	8	4	3	3	0
8	40	30	24	20	34	26	21	17	18	15	12	10	9	7	3	3	2	0
9	37	27	21	17	31	23	19	15	16	13	11	9	8	6	3	3	2	0
10	34	25	19	15	29	21	17	13	15	12	9	9	7	6	3	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18	18	18	18
5°	23	23	29	23
10°	24	24	27	27
15°	18	18	21	21
20°	28	28	25	25
25°	29	16	23	26
30°	24	20	20	20
35°	21	11	21	21
40°	15	11	15	15
45°	12	12	17	17
50°	18	14	14	9
55°	15	5	5	10
60°	18	12	12	18
65°	21	7	14	7
70°	26	0	17	17
75°	11	0	0	23
80°	0	0	17	0
85°	0	33	33	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.7	0.0	0.0
10°-20°	2.2	0.0	0.0
20°-30°	3.2	0.0	0.0
30°-40°	3.3	0.0	0.0
40°-50°	2.6	0.0	0.0
50°-60°	1.9	0.0	0.0
60°-70°	1.8	0.0	0.0
70°-80°	0.8	0.0	0.0
80°-90°	1.2	0.0	0.0
90°-100°	114.7	1.2	1.1
100°-110°	596.3	6.5	5.5
110°-120°	1175.3	12.8	10.9
120°-130°	1612.6	17.6	14.9
130°-140°	1782.1	19.4	16.5
140°-150°	1632.7	17.8	15.1
150°-160°	1261.6	13.7	11.7
160°-170°	762.7	8.3	7.1
170°-180°	228.4	2.5	2.1
0°-30°	6.1	0.1	0.1
0°-40°	9.4	0.1	0.1
0°-60°	13.8	0.2	0.1
0°-90°	17.7	0.2	0.2
90°-120°	1886.3	20.5	17.5
90°-150°	6913.8	75.3	64.0
90°-180°	9167.0	99.8	84.9
0°-180°	9184.2	100.0	85.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6	6	6	6	6	
5°	8	8	10	8	8	1
15°	6	6	7	7	6	2
25°	9	5	7	8	9	4
35°	6	3	6	6	6	4
45°	3	3	4	4	3	3
55°	3	1	1	2	3	3
65°	3	1	2	1	3	3
75°	1	0	0	2	1	1
85°	0	1	1	0	0	0
90°	5	4	6	3	5	5
95°	110	68	69	56	110	151
105°	747	483	479	426	747	777
115°	1360	1097	1250	991	1360	1337
125°	1872	1686	1942	1631	1872	1670
135°	2290	2215	2475	2152	2290	1761
145°	2579	2499	2835	2480	2579	1614
155°	2829	2619	2885	2607	2829	1302
165°	2784	2672	2673	2667	2784	789
175°	2332	2317	2305	2313	2332	231
180°	2166	2166	2166	2166	2166	



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CANDELA DISTRIBUTION (FULL):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
0°	6	6	6	6	6	6	6	6	6	6	6
2.5°	8	7	7	7	7	7	7	8	8	7	7
5°	8	8	8	9	10	8	8	8	8	8	8
7.5°	7	8	8	8	8	8	7	7	7	8	8
10°	8	8	9	8	9	8	8	7	8	8	9
12.5°	9	9	9	9	8	9	9	8	9	9	9
15°	6	6	7	7	7	8	6	7	6	6	7
17.5°	7	8	8	8	6	7	7	7	7	8	8
20°	9	8	8	8	8	7	9	7	9	8	8
22.5°	8	9	8	7	7	7	7	7	8	9	8
25°	9	7	8	9	7	6	5	7	9	7	8
27.5°	7	6	6	6	5	5	6	5	7	6	6
30°	7	6	6	6	6	5	6	6	7	6	6
32.5°	6	6	6	5	6	4	3	5	6	6	6
35°	6	6	6	5	6	5	3	5	6	6	6
37.5°	6	5	6	6	5	4	5	6	6	5	6
40°	4	5	4	5	4	4	3	4	4	5	4
42.5°	5	4	4	4	4	3	3	4	5	4	4
45°	3	3	4	4	4	3	3	3	3	3	4
47.5°	3	3	3	3	2	3	1	2	3	3	3
50°	4	4	2	4	3	3	3	1	4	4	2
52.5°	3	3	3	3	2	2	2	1	3	3	3
55°	3	3	2	2	1	1	1	1	3	3	2
57.5°	2	1	2	1	1	1	1	2	2	1	2
60°	3	3	3	3	2	2	2	3	3	3	3
62.5°	3	3	2	1	3	2	2	3	3	3	2
65°	3	2	1	1	2	2	1	1	3	2	1
67.5°	2	1	1	0	1	0	1	1	2	1	1
70°	3	2	2	1	2	1	0	3	3	2	2
72.5°	0	0	1	0	1	0	0	3	0	0	1
75°	1	1	2	2	0	0	0	4	1	1	2
77.5°	0	0	0	0	1	0	0	1	0	0	0
80°	0	0	0	0	1	0	0	1	0	0	0
82.5°	1	0	0	0	0	0	0	1	1	0	0
85°	0	0	0	0	1	1	1	2	0	0	0
87.5°	0	1	1	1	2	1	1	1	0	1	1
90°	5	3	3	7	6	4	4	5	5	3	3
92.5°	29	20	16	23	18	16	17	27	29	20	16
95°	110	81	56	72	69	65	68	97	110	81	56
97.5°	239	179	133	155	151	154	150	206	239	179	133
100°	386	292	219	255	243	261	252	333	386	292	219
102.5°	570	416	313	367	349	377	359	478	570	416	313
105°	747	562	426	490	479	505	483	649	747	562	426
107.5°	910	717	569	635	634	660	645	824	910	717	569
110°	1058	855	714	798	832	830	808	978	1058	855	714



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CANDELA DISTRIBUTION (continued):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	1211	992	854	962	1038	995	953	1125	1211	992	854
115°	1360	1115	991	1135	1250	1151	1097	1247	1360	1115	991
117.5°	1493	1251	1133	1314	1443	1325	1230	1369	1493	1251	1133
120°	1614	1389	1295	1490	1615	1486	1375	1493	1614	1389	1295
122.5°	1748	1557	1454	1676	1777	1659	1528	1646	1748	1557	1454
125°	1872	1715	1631	1840	1942	1819	1686	1804	1872	1715	1631
127.5°	1984	1879	1786	1995	2094	1965	1850	1961	1984	1879	1786
130°	2105	2034	1918	2117	2231	2093	1989	2109	2105	2034	1918
132.5°	2206	2175	2035	2229	2354	2207	2107	2237	2206	2175	2035
135°	2290	2285	2152	2330	2475	2307	2215	2338	2290	2285	2152
137.5°	2356	2374	2263	2433	2585	2405	2313	2418	2356	2374	2263
140°	2418	2440	2358	2526	2690	2488	2394	2485	2418	2440	2358
142.5°	2488	2493	2424	2596	2776	2552	2449	2538	2488	2493	2424
145°	2579	2542	2480	2637	2835	2589	2499	2581	2579	2542	2480
147.5°	2660	2579	2525	2671	2869	2625	2544	2620	2660	2579	2525
150°	2730	2611	2563	2687	2885	2645	2580	2649	2730	2611	2563
152.5°	2789	2640	2588	2696	2894	2654	2604	2681	2789	2640	2588
155°	2829	2683	2607	2701	2885	2660	2619	2720	2829	2683	2607
157.5°	2855	2715	2652	2702	2841	2661	2657	2741	2855	2715	2652
160°	2867	2734	2680	2707	2794	2678	2680	2752	2867	2734	2680
162.5°	2847	2725	2679	2701	2738	2675	2683	2747	2847	2725	2679
165°	2784	2704	2667	2669	2673	2658	2672	2720	2784	2704	2667
167.5°	2712	2666	2623	2603	2599	2600	2633	2678	2712	2666	2623
170°	2599	2561	2537	2525	2526	2523	2545	2571	2599	2561	2537
172.5°	2459	2436	2421	2415	2418	2413	2427	2443	2459	2436	2421
175°	2332	2322	2313	2307	2305	2307	2317	2323	2332	2322	2313
177.5°	2225	2220	2217	2210	2207	2211	2216	2221	2225	2220	2217
180°	2166	2166	2166	2166	2166	2166	2166	2166	2166	2166	2166



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
0°	6	6	6	6	6	6	6	6	6	6	6
2.5°	7	7	7	7	8	8	7	7	7	7	7
5°	9	10	8	8	8	8	8	8	9	10	8
7.5°	8	8	8	7	7	7	8	8	8	8	8
10°	8	9	8	8	7	8	8	9	8	9	8
12.5°	9	8	9	9	8	9	9	9	9	8	9
15°	7	7	8	6	7	6	6	7	7	7	8
17.5°	8	6	7	7	7	7	8	8	8	6	7
20°	8	8	7	9	7	9	8	8	8	8	7
22.5°	7	7	7	7	7	8	9	8	7	7	7
25°	9	7	6	5	7	9	7	8	9	7	6
27.5°	6	5	5	6	5	7	6	6	6	5	5
30°	6	6	5	6	6	7	6	6	6	6	5
32.5°	5	6	4	3	5	6	6	6	5	6	4
35°	5	6	5	3	5	6	6	6	5	6	5
37.5°	6	5	4	5	6	6	5	6	6	5	4
40°	5	4	4	3	4	4	5	4	5	4	4
42.5°	4	4	3	3	4	5	4	4	4	4	3
45°	4	4	3	3	3	3	3	4	4	4	3
47.5°	3	2	3	1	2	3	3	3	3	2	3
50°	4	3	3	3	1	4	4	2	4	3	3
52.5°	3	2	2	2	1	3	3	3	3	2	2
55°	2	1	1	1	1	3	3	2	2	1	1
57.5°	1	1	1	1	2	2	1	2	1	1	1
60°	3	2	2	2	3	3	3	3	3	2	2
62.5°	1	3	2	2	3	3	3	2	1	3	2
65°	1	2	2	1	1	3	2	1	1	2	2
67.5°	0	1	0	1	1	2	1	1	0	1	0
70°	1	2	1	0	3	3	2	2	1	2	1
72.5°	0	1	0	0	3	0	0	1	0	1	0
75°	2	0	0	0	4	1	1	2	2	0	0
77.5°	0	1	0	0	1	0	0	0	0	1	0
80°	0	1	0	0	1	0	0	0	0	1	0
82.5°	0	0	0	0	1	1	0	0	0	0	0
85°	0	1	1	1	2	0	0	0	0	1	1
87.5°	1	2	1	1	1	0	1	1	1	2	1
90°	7	6	4	4	5	5	3	3	7	6	4
92.5°	23	18	16	17	27	29	20	16	23	18	16
95°	72	69	65	68	97	110	81	56	72	69	65
97.5°	155	151	154	150	206	239	179	133	155	151	154
100°	255	243	261	252	333	386	292	219	255	243	261
102.5°	367	349	377	359	478	570	416	313	367	349	377
105°	490	479	505	483	649	747	562	426	490	479	505
107.5°	635	634	660	645	824	910	717	569	635	634	660
110°	798	832	830	808	978	1058	855	714	798	832	830



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	962	1038	995	953	1125	1211	992	854	962	1038	995
115°	1135	1250	1151	1097	1247	1360	1115	991	1135	1250	1151
117.5°	1314	1443	1325	1230	1369	1493	1251	1133	1314	1443	1325
120°	1490	1615	1486	1375	1493	1614	1389	1295	1490	1615	1486
122.5°	1676	1777	1659	1528	1646	1748	1557	1454	1676	1777	1659
125°	1840	1942	1819	1686	1804	1872	1715	1631	1840	1942	1819
127.5°	1995	2094	1965	1850	1961	1984	1879	1786	1995	2094	1965
130°	2117	2231	2093	1989	2109	2105	2034	1918	2117	2231	2093
132.5°	2229	2354	2207	2107	2237	2206	2175	2035	2229	2354	2207
135°	2330	2475	2307	2215	2338	2290	2285	2152	2330	2475	2307
137.5°	2433	2585	2405	2313	2418	2356	2374	2263	2433	2585	2405
140°	2526	2690	2488	2394	2485	2418	2440	2358	2526	2690	2488
142.5°	2596	2776	2552	2449	2538	2488	2493	2424	2596	2776	2552
145°	2637	2835	2589	2499	2581	2579	2542	2480	2637	2835	2589
147.5°	2671	2869	2625	2544	2620	2660	2579	2525	2671	2869	2625
150°	2687	2885	2645	2580	2649	2730	2611	2563	2687	2885	2645
152.5°	2696	2894	2654	2604	2681	2789	2640	2588	2696	2894	2654
155°	2701	2885	2660	2619	2720	2829	2683	2607	2701	2885	2660
157.5°	2702	2841	2661	2657	2741	2855	2715	2652	2702	2841	2661
160°	2707	2794	2678	2680	2752	2867	2734	2680	2707	2794	2678
162.5°	2701	2738	2675	2683	2747	2847	2725	2679	2701	2738	2675
165°	2669	2673	2658	2672	2720	2784	2704	2667	2669	2673	2658
167.5°	2603	2599	2600	2633	2678	2712	2666	2623	2603	2599	2600
170°	2525	2526	2523	2545	2571	2599	2561	2537	2525	2526	2523
172.5°	2415	2418	2413	2427	2443	2459	2436	2421	2415	2418	2413
175°	2307	2305	2307	2317	2323	2332	2322	2313	2307	2305	2307
177.5°	2210	2207	2211	2216	2221	2225	2220	2217	2210	2207	2211
180°	2166	2166	2166	2166	2166	2166	2166	2166	2166	2166	2166



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CANDELA DISTRIBUTION (continued):

	330°	340°	360°
0°	6	6	6
2.5°	7	8	8
5°	8	8	8
7.5°	7	7	7
10°	8	7	8
12.5°	9	8	9
15°	6	7	6
17.5°	7	7	7
20°	9	7	9
22.5°	7	7	8
25°	5	7	9
27.5°	6	5	7
30°	6	6	7
32.5°	3	5	6
35°	3	5	6
37.5°	5	6	6
40°	3	4	4
42.5°	3	4	5
45°	3	3	3
47.5°	1	2	3
50°	3	1	4
52.5°	2	1	3
55°	1	1	3
57.5°	1	2	2
60°	2	3	3
62.5°	2	3	3
65°	1	1	3
67.5°	1	1	2
70°	0	3	3
72.5°	0	3	0
75°	0	4	1
77.5°	0	1	0
80°	0	1	0
82.5°	0	1	1
85°	1	2	0
87.5°	1	1	0
90°	4	5	5
92.5°	17	27	29
95°	68	97	110
97.5°	150	206	239
100°	252	333	386
102.5°	359	478	570
105°	483	649	747
107.5°	645	824	910
110°	808	978	1058



TEST NUMBER: 253P139

CATALOG NUMBER: 1270-26-CFL/6/27

CANDELA DISTRIBUTION (continued):

	330°	340°	360°
112.5°	953	1125	1211
115°	1097	1247	1360
117.5°	1230	1369	1493
120°	1375	1493	1614
122.5°	1528	1646	1748
125°	1686	1804	1872
127.5°	1850	1961	1984
130°	1989	2109	2105
132.5°	2107	2237	2206
135°	2215	2338	2290
137.5°	2313	2418	2356
140°	2394	2485	2418
142.5°	2449	2538	2488
145°	2499	2581	2579
147.5°	2544	2620	2660
150°	2580	2649	2730
152.5°	2604	2681	2789
155°	2619	2720	2829
157.5°	2657	2741	2855
160°	2680	2752	2867
162.5°	2683	2747	2847
165°	2672	2720	2784
167.5°	2633	2678	2712
170°	2545	2571	2599
172.5°	2427	2443	2459
175°	2317	2323	2332
177.5°	2216	2221	2225
180°	2166	2166	2166

(END OF REPORT)