

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: 253P152

Luminaire Tested: **1270-36-CFL/6/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P152
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1270-36-CFL/6/40
Description: SHAPER 36 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE
Light Source: SIX 40 WATT GX24 T4 COMPACT FLUORESCENT LAMPS
F40BX - 3150 LUMENS - 40 WATTS
Ballast/Driver: -

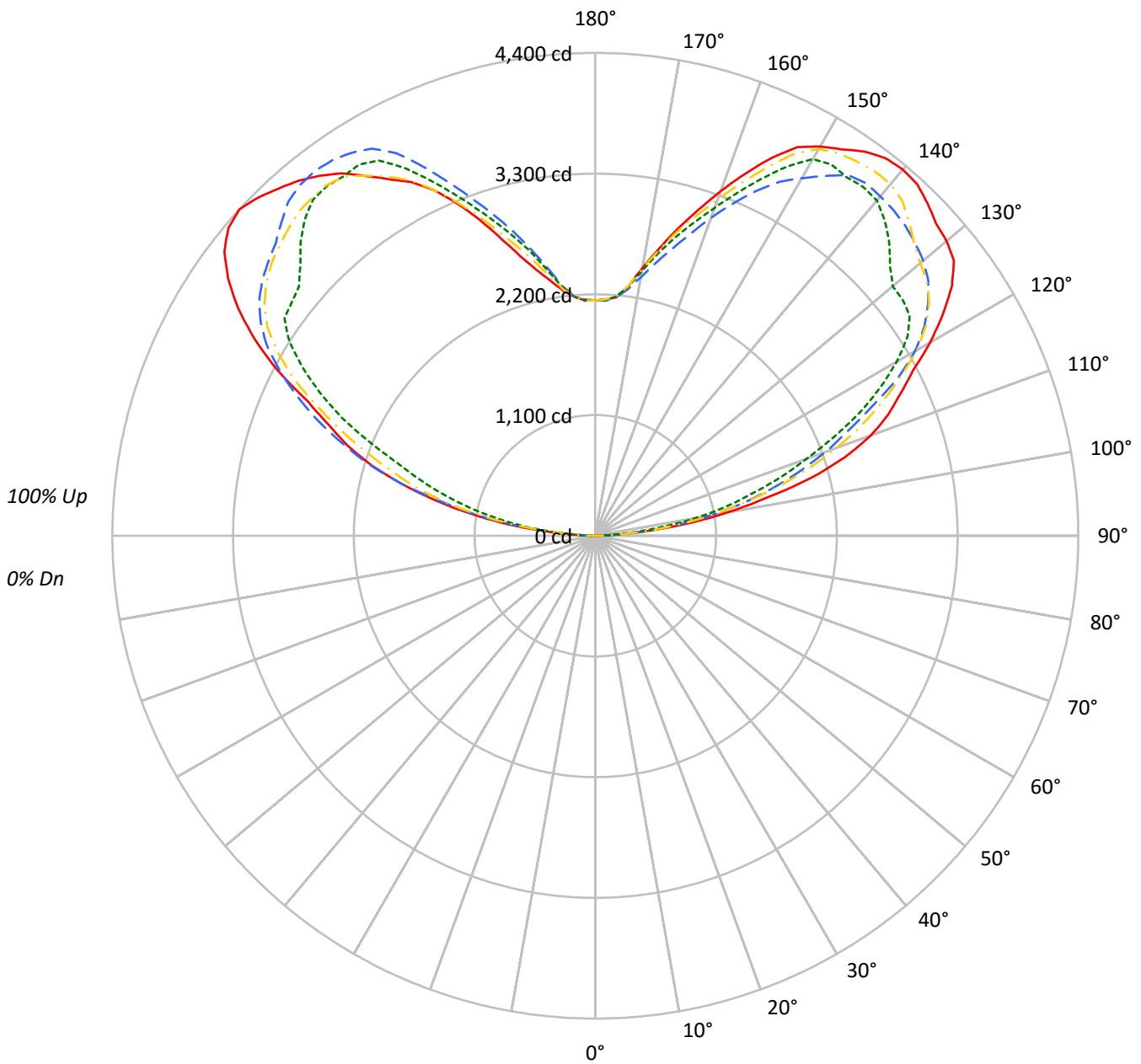
Summary

Lumens per Lamp: 3150 (6 lamps)
Luminaire Lumens: 16742.2 lumens
Efficiency: 88.6%
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Circular (Dia: 3' x H: 0')
CIE Type: Indirect

Input Watts (W): 240
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	84	84	84	84	72	72	72	72	49	49	49	28	28	28	9	9	9	0
1	77	73	70	67	65	63	60	58	43	41	40	25	24	23	8	8	8	0
2	70	64	59	55	59	55	51	47	37	35	33	22	20	19	7	7	6	0
3	64	56	50	45	54	48	43	39	33	30	28	19	18	16	6	6	5	0
4	58	49	43	38	49	42	37	33	29	26	23	17	15	14	5	5	5	0
5	53	44	37	32	45	37	32	28	26	22	20	15	13	12	5	4	4	0
6	49	39	32	28	41	33	28	24	23	20	17	13	12	10	4	4	3	0
7	45	35	28	24	38	30	25	21	21	17	15	12	10	9	4	3	3	0
8	41	31	25	21	35	27	22	18	19	15	13	11	9	8	4	3	3	0
9	38	28	22	18	32	24	19	16	17	14	11	10	8	7	3	3	2	0
10	35	26	20	16	30	22	17	14	15	12	10	9	7	6	3	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	0	0	0	0
5°	0	0	0	0
10°	0	0	0	0
15°	0	0	0	0
20°	0	0	0	0
25°	0	0	0	0
30°	0	0	0	0
35°	0	0	0	0
40°	0	0	0	0
45°	0	0	0	0
50°	0	0	0	0
55°	0	0	0	0
60°	0	0	0	0
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	2.4	0.0	0.0
90°-100°	493.7	2.9	2.6
100°-110°	1788.6	10.7	9.5
110°-120°	2809.3	16.8	14.9
120°-130°	3302.0	19.7	17.5
130°-140°	3106.6	18.6	16.4
140°-150°	2551.8	15.2	13.5
150°-160°	1668.4	10.0	8.8
160°-170°	802.8	4.8	4.2
170°-180°	216.5	1.3	1.1
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	2.4	0.0	0.0
90°-120°	5091.6	30.4	26.9
90°-150°	14052.1	83.9	74.3
90°-180°	16740.0	100.0	88.6
0°-180°	16742.2	100.0	88.6

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	20	12	20	13	20	28
95°	451	319	444	368	451	540
105°	2036	1470	1830	1412	2036	2101
115°	3066	2661	2886	2548	3066	3051
125°	3965	3495	4083	3457	3965	3512
135°	4281	3787	4353	3796	4281	3309
145°	4274	3990	4031	3999	4274	2675
155°	3798	3591	3475	3579	3798	1756
165°	2894	2816	2635	2807	2894	834
175°	2180	2188	2185	2186	2180	218
180°	2145	2145	2145	2145	2145	



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CANDELA DISTRIBUTION (FULL):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	20	15	13	15	20	18	12	21	20	15	13
92.5°	162	150	129	153	142	112	87	116	162	150	129
95°	451	409	368	423	444	360	319	372	451	409	368
97.5°	843	713	648	748	799	681	617	722	843	713	648
100°	1224	1019	905	1041	1154	1015	928	1056	1224	1019	905
102.5°	1596	1313	1162	1337	1492	1347	1214	1374	1596	1313	1162
105°	2036	1611	1412	1618	1830	1631	1470	1751	2036	1611	1412
107.5°	2386	1919	1655	1892	2136	1865	1766	2086	2386	1919	1655
110°	2671	2220	1898	2175	2401	2149	2042	2372	2671	2220	1898



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CANDELA DISTRIBUTION (continued):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	2889	2536	2217	2440	2620	2466	2351	2681	2889	2536	2217
115°	3066	2822	2548	2737	2886	2770	2661	2963	3066	2822	2548
117.5°	3265	3091	2831	3052	3260	3043	2926	3222	3265	3091	2831
120°	3521	3335	3085	3290	3585	3254	3169	3429	3521	3335	3085
122.5°	3752	3512	3308	3453	3858	3438	3372	3568	3752	3512	3308
125°	3965	3629	3457	3575	4083	3545	3495	3660	3965	3629	3457
127.5°	4117	3704	3487	3677	4259	3618	3530	3727	4117	3704	3487
130°	4178	3760	3527	3745	4363	3684	3537	3791	4178	3760	3527
132.5°	4210	3849	3643	3800	4400	3739	3640	3861	4210	3849	3643
135°	4281	3963	3796	3874	4353	3822	3787	3964	4281	3963	3796
137.5°	4342	4072	3915	3934	4286	3908	3901	4067	4342	4072	3915
140°	4357	4126	4000	3976	4219	3949	3990	4118	4357	4126	4000
142.5°	4338	4132	4016	4023	4133	3989	4007	4143	4338	4132	4016
145°	4274	4122	3999	4005	4031	3980	3990	4144	4274	4122	3999
147.5°	4175	4114	4009	3887	3887	3893	4008	4125	4175	4114	4009
150°	4095	4060	3949	3767	3750	3785	3964	4066	4095	4060	3949
152.5°	3993	3900	3782	3637	3633	3656	3795	3909	3993	3900	3782
155°	3798	3674	3579	3464	3475	3479	3591	3683	3798	3674	3579
157.5°	3572	3445	3373	3278	3274	3293	3383	3453	3572	3445	3373
160°	3340	3232	3175	3091	3055	3108	3179	3239	3340	3232	3175
162.5°	3111	3039	2987	2903	2832	2917	2992	3044	3111	3039	2987
165°	2894	2855	2807	2731	2635	2749	2816	2853	2894	2855	2807
167.5°	2677	2658	2628	2567	2480	2584	2632	2656	2677	2658	2628
170°	2476	2467	2440	2401	2359	2414	2448	2466	2476	2467	2440
172.5°	2290	2294	2282	2267	2253	2272	2286	2294	2290	2294	2282
175°	2180	2192	2186	2180	2185	2184	2188	2189	2180	2192	2186
177.5°	2156	2155	2149	2143	2145	2146	2150	2154	2156	2155	2149
180°	2145	2145	2145	2145	2145	2145	2145	2145	2145	2145	2145



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	15	20	18	12	21	20	15	13	15	20	18
92.5°	153	142	112	87	116	162	150	129	153	142	112
95°	423	444	360	319	372	451	409	368	423	444	360
97.5°	748	799	681	617	722	843	713	648	748	799	681
100°	1041	1154	1015	928	1056	1224	1019	905	1041	1154	1015
102.5°	1337	1492	1347	1214	1374	1596	1313	1162	1337	1492	1347
105°	1618	1830	1631	1470	1751	2036	1611	1412	1618	1830	1631
107.5°	1892	2136	1865	1766	2086	2386	1919	1655	1892	2136	1865
110°	2175	2401	2149	2042	2372	2671	2220	1898	2175	2401	2149



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	2440	2620	2466	2351	2681	2889	2536	2217	2440	2620	2466
115°	2737	2886	2770	2661	2963	3066	2822	2548	2737	2886	2770
117.5°	3052	3260	3043	2926	3222	3265	3091	2831	3052	3260	3043
120°	3290	3585	3254	3169	3429	3521	3335	3085	3290	3585	3254
122.5°	3453	3858	3438	3372	3568	3752	3512	3308	3453	3858	3438
125°	3575	4083	3545	3495	3660	3965	3629	3457	3575	4083	3545
127.5°	3677	4259	3618	3530	3727	4117	3704	3487	3677	4259	3618
130°	3745	4363	3684	3537	3791	4178	3760	3527	3745	4363	3684
132.5°	3800	4400	3739	3640	3861	4210	3849	3643	3800	4400	3739
135°	3874	4353	3822	3787	3964	4281	3963	3796	3874	4353	3822
137.5°	3934	4286	3908	3901	4067	4342	4072	3915	3934	4286	3908
140°	3976	4219	3949	3990	4118	4357	4126	4000	3976	4219	3949
142.5°	4023	4133	3989	4007	4143	4338	4132	4016	4023	4133	3989
145°	4005	4031	3980	3990	4144	4274	4122	3999	4005	4031	3980
147.5°	3887	3887	3893	4008	4125	4175	4114	4009	3887	3887	3893
150°	3767	3750	3785	3964	4066	4095	4060	3949	3767	3750	3785
152.5°	3637	3633	3656	3795	3909	3993	3900	3782	3637	3633	3656
155°	3464	3475	3479	3591	3683	3798	3674	3579	3464	3475	3479
157.5°	3278	3274	3293	3383	3453	3572	3445	3373	3278	3274	3293
160°	3091	3055	3108	3179	3239	3340	3232	3175	3091	3055	3108
162.5°	2903	2832	2917	2992	3044	3111	3039	2987	2903	2832	2917
165°	2731	2635	2749	2816	2853	2894	2855	2807	2731	2635	2749
167.5°	2567	2480	2584	2632	2656	2677	2658	2628	2567	2480	2584
170°	2401	2359	2414	2448	2466	2476	2467	2440	2401	2359	2414
172.5°	2267	2253	2272	2286	2294	2290	2294	2282	2267	2253	2272
175°	2180	2185	2184	2188	2189	2180	2192	2186	2180	2185	2184
177.5°	2143	2145	2146	2150	2154	2156	2155	2149	2143	2145	2146
180°	2145	2145	2145	2145	2145	2145	2145	2145	2145	2145	2145



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CANDELA DISTRIBUTION (continued):

	330°	340°	360°
0°	0	0	0
2.5°	0	0	0
5°	0	0	0
7.5°	0	0	0
10°	0	0	0
12.5°	0	0	0
15°	0	0	0
17.5°	0	0	0
20°	0	0	0
22.5°	0	0	0
25°	0	0	0
27.5°	0	0	0
30°	0	0	0
32.5°	0	0	0
35°	0	0	0
37.5°	0	0	0
40°	0	0	0
42.5°	0	0	0
45°	0	0	0
47.5°	0	0	0
50°	0	0	0
52.5°	0	0	0
55°	0	0	0
57.5°	0	0	0
60°	0	0	0
62.5°	0	0	0
65°	0	0	0
67.5°	0	0	0
70°	0	0	0
72.5°	0	0	0
75°	0	0	0
77.5°	0	0	0
80°	0	0	0
82.5°	0	0	0
85°	0	0	0
87.5°	0	0	0
90°	12	21	20
92.5°	87	116	162
95°	319	372	451
97.5°	617	722	843
100°	928	1056	1224
102.5°	1214	1374	1596
105°	1470	1751	2036
107.5°	1766	2086	2386
110°	2042	2372	2671



TEST NUMBER: 253P152

CATALOG NUMBER: 1270-36-CFL/6/40

CANDELA DISTRIBUTION (continued):

	330°	340°	360°
112.5°	2351	2681	2889
115°	2661	2963	3066
117.5°	2926	3222	3265
120°	3169	3429	3521
122.5°	3372	3568	3752
125°	3495	3660	3965
127.5°	3530	3727	4117
130°	3537	3791	4178
132.5°	3640	3861	4210
135°	3787	3964	4281
137.5°	3901	4067	4342
140°	3990	4118	4357
142.5°	4007	4143	4338
145°	3990	4144	4274
147.5°	4008	4125	4175
150°	3964	4066	4095
152.5°	3795	3909	3993
155°	3591	3683	3798
157.5°	3383	3453	3572
160°	3179	3239	3340
162.5°	2992	3044	3111
165°	2816	2853	2894
167.5°	2632	2656	2677
170°	2448	2466	2476
172.5°	2286	2294	2290
175°	2188	2189	2180
177.5°	2150	2154	2156
180°	2145	2145	2145

(END OF REPORT)