

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: 253P151

Luminaire Tested: **1270-36-CFL/3/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P151
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1270-36-CFL/3/40
Description: SHAPER 36 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE
Light Source: THREE 40 WATT GX24 T4 COMPACT FLUORESCENT LAMPS
(3)F40BX - 3150 LUMENS - 40 WATTS
Ballast/Driver: -

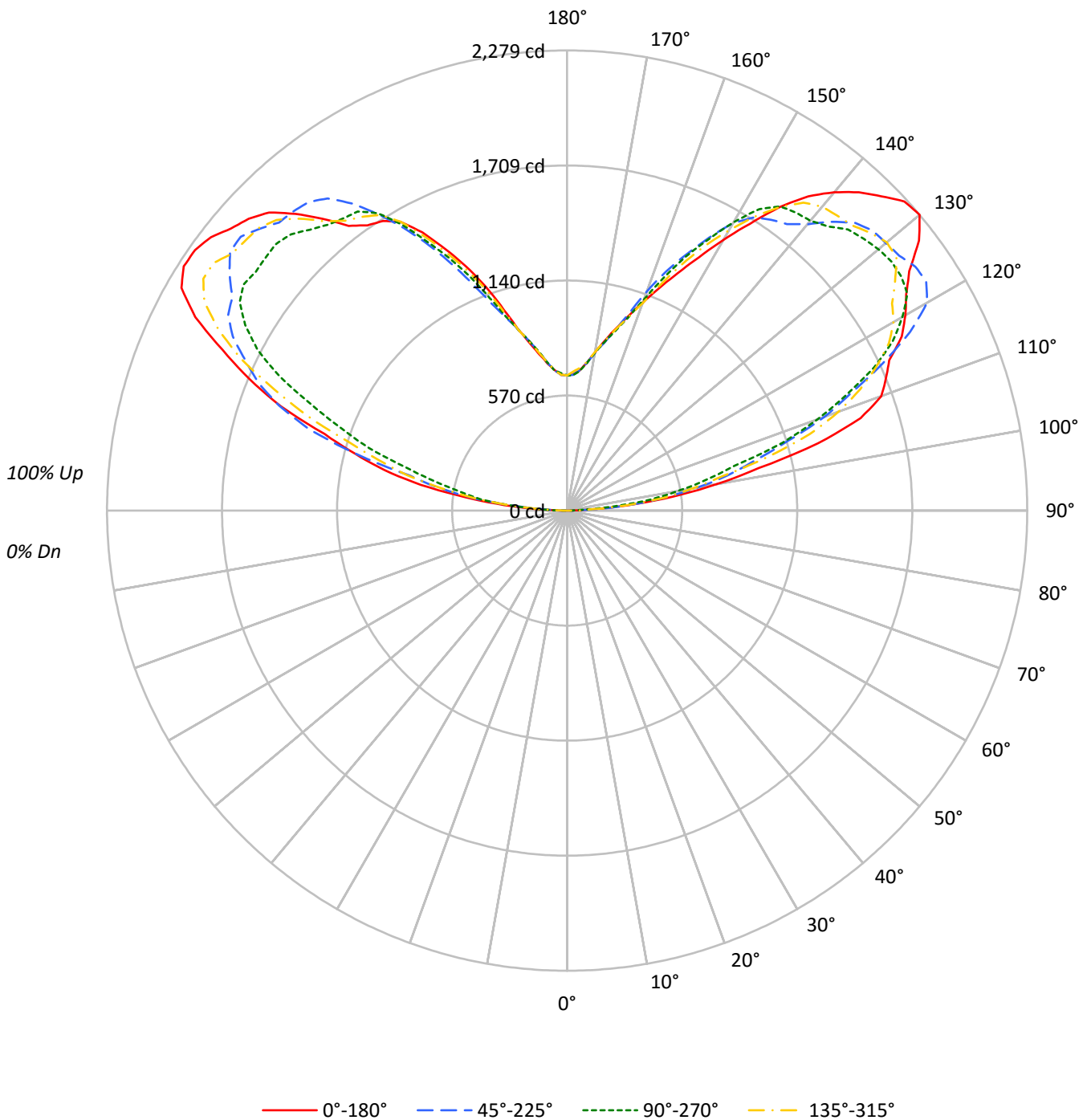
Summary

Lumens per Lamp: 3150 (3 lamps)
Luminaire Lumens: 8617.5 lumens
Efficiency: 91.2%
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Circular (Dia: 3' x H: 0')
CIE Type: Indirect

Input Watts (W): 120
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





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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	50	30	10	
RCR																					
0	87	87	87	87	74	74	74	74	51	51	51	29	29	29	9	9	9	0	0	0	0
1	79	75	72	69	67	64	62	59	44	43	41	25	25	24	8	8	8	0	0	0	0
2	72	66	61	56	61	56	52	49	39	36	34	22	21	20	7	7	6	0	0	0	0
3	65	58	52	47	56	49	44	40	34	31	28	20	18	17	6	6	5	0	0	0	0
4	60	51	44	39	51	44	38	34	30	27	24	17	16	14	6	5	5	0	0	0	0
5	55	45	38	33	46	39	33	29	27	23	20	15	14	12	5	4	4	0	0	0	0
6	50	40	33	28	42	34	29	25	24	20	17	14	12	10	4	4	3	0	0	0	0
7	46	36	29	24	39	31	25	21	21	18	15	12	10	9	4	3	3	0	0	0	0
8	42	32	26	21	36	28	22	19	19	16	13	11	9	8	4	3	3	0	0	0	0
9	39	29	23	19	33	25	20	16	17	14	12	10	8	7	3	3	2	0	0	0	0
10	36	26	20	16	31	23	18	14	16	12	10	9	7	6	3	2	2	0	0	0	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°	0.8	0.0	0.0
90°-100°	315.3	3.7	3.3
100°-110°	1074.8	12.5	11.4
110°-120°	1705.9	19.8	18.1
120°-130°	1843.5	21.4	19.5
130°-140°	1564.8	18.2	16.6
140°-150°	1129.2	13.1	11.9
150°-160°	642.9	7.5	6.8
160°-170°	270.7	3.1	2.9
170°-180°	69.6	0.8	0.7
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°	0.8	0.0	0.0
90°-120°	3096.0	35.9	32.8
90°-150°	7633.5	88.6	80.8
90°-180°	8617.0	100.0	91.2
0°-180°	8617.5	100.0	91.2

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°	3	2	13	5	3	15
95°	297	223	312	262	297	340
105°	1287	857	1086	827	1287	1315
115°	1760	1677	1884	1571	1760	1768
125°	2068	2020	2250	1955	2068	1872
135°	2201	1968	2088	1935	2201	1701
145°	1834	1839	1724	1808	1834	1150
155°	1298	1385	1429	1378	1298	611
165°	933	921	925	924	933	270
175°	695	692	697	695	695	70
180°	669	669	669	669	669	



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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°	3	6	5	8	13	4	2	5	3	6	5
92.5°	101	103	98	121	117	70	55	62	101	103	98
95°	297	275	262	291	312	238	223	230	297	275	262
97.5°	527	470	433	468	509	440	417	444	527	470	433
100°	752	589	537	629	736	588	554	603	752	589	537
102.5°	973	727	672	787	927	775	709	739	973	727	672
105°	1287	945	827	928	1086	924	857	1011	1287	945	827
107.5°	1524	1172	1028	1107	1259	1099	1119	1277	1524	1172	1028
110°	1656	1356	1189	1305	1509	1318	1319	1471	1656	1356	1189



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CANDELA DISTRIBUTION (continued):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	1709	1524	1369	1463	1704	1526	1496	1638	1709	1524	1369
115°	1760	1669	1571	1671	1884	1753	1677	1756	1760	1669	1571
117.5°	1869	1772	1730	1860	2076	1907	1819	1867	1869	1772	1730
120°	1934	1845	1841	2009	2206	2031	1917	1940	1934	1845	1841
122.5°	1991	1880	1923	2062	2251	2099	1998	1958	1991	1880	1923
125°	2068	1954	1955	2058	2250	2100	2020	2032	2068	1954	1955
127.5°	2196	2009	1943	2023	2224	2047	2025	2074	2196	2009	1943
130°	2279	1996	1950	2024	2173	2049	2013	2054	2279	1996	1950
132.5°	2266	1960	1955	2023	2139	2049	1992	1999	2266	1960	1955
135°	2201	1929	1935	1992	2088	2018	1968	1956	2201	1929	1935
137.5°	2138	1928	1887	1922	1993	1950	1909	1966	2138	1928	1887
140°	2058	1933	1847	1839	1887	1864	1874	1972	2058	1933	1847
142.5°	1962	1909	1823	1792	1777	1819	1860	1944	1962	1909	1823
145°	1834	1834	1808	1770	1724	1793	1839	1863	1834	1834	1808
147.5°	1684	1737	1746	1728	1700	1747	1770	1758	1684	1737	1746
150°	1547	1620	1635	1640	1651	1653	1649	1637	1547	1620	1635
152.5°	1415	1499	1501	1515	1553	1524	1513	1505	1415	1499	1501
155°	1298	1360	1378	1391	1429	1398	1385	1357	1298	1360	1378
157.5°	1192	1219	1250	1274	1309	1276	1247	1212	1192	1219	1250
160°	1096	1092	1120	1147	1181	1147	1112	1086	1096	1092	1120
162.5°	1010	999	1007	1021	1042	1019	1000	995	1010	999	1007
165°	933	928	924	922	925	924	921	924	933	928	924
167.5°	861	860	858	855	846	856	855	856	861	860	858
170°	795	798	796	793	784	794	793	794	795	798	796
172.5°	736	743	738	737	733	739	734	737	736	743	738
175°	695	713	695	695	697	695	692	694	695	713	695
177.5°	675	694	681	673	673	673	671	672	675	694	681
180°	669	669	669	669	669	669	669	669	669	669	669



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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°	8	13	4	2	5	3	6	5	8	13	4
92.5°	121	117	70	55	62	101	103	98	121	117	70
95°	291	312	238	223	230	297	275	262	291	312	238
97.5°	468	509	440	417	444	527	470	433	468	509	440
100°	629	736	588	554	603	752	589	537	629	736	588
102.5°	787	927	775	709	739	973	727	672	787	927	775
105°	928	1086	924	857	1011	1287	945	827	928	1086	924
107.5°	1107	1259	1099	1119	1277	1524	1172	1028	1107	1259	1099
110°	1305	1509	1318	1319	1471	1656	1356	1189	1305	1509	1318



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	1463	1704	1526	1496	1638	1709	1524	1369	1463	1704	1526
115°	1671	1884	1753	1677	1756	1760	1669	1571	1671	1884	1753
117.5°	1860	2076	1907	1819	1867	1869	1772	1730	1860	2076	1907
120°	2009	2206	2031	1917	1940	1934	1845	1841	2009	2206	2031
122.5°	2062	2251	2099	1998	1958	1991	1880	1923	2062	2251	2099
125°	2058	2250	2100	2020	2032	2068	1954	1955	2058	2250	2100
127.5°	2023	2224	2047	2025	2074	2196	2009	1943	2023	2224	2047
130°	2024	2173	2049	2013	2054	2279	1996	1950	2024	2173	2049
132.5°	2023	2139	2049	1992	1999	2266	1960	1955	2023	2139	2049
135°	1992	2088	2018	1968	1956	2201	1929	1935	1992	2088	2018
137.5°	1922	1993	1950	1909	1966	2138	1928	1887	1922	1993	1950
140°	1839	1887	1864	1874	1972	2058	1933	1847	1839	1887	1864
142.5°	1792	1777	1819	1860	1944	1962	1909	1823	1792	1777	1819
145°	1770	1724	1793	1839	1863	1834	1834	1808	1770	1724	1793
147.5°	1728	1700	1747	1770	1758	1684	1737	1746	1728	1700	1747
150°	1640	1651	1653	1649	1637	1547	1620	1635	1640	1651	1653
152.5°	1515	1553	1524	1513	1505	1415	1499	1501	1515	1553	1524
155°	1391	1429	1398	1385	1357	1298	1360	1378	1391	1429	1398
157.5°	1274	1309	1276	1247	1212	1192	1219	1250	1274	1309	1276
160°	1147	1181	1147	1112	1086	1096	1092	1120	1147	1181	1147
162.5°	1021	1042	1019	1000	995	1010	999	1007	1021	1042	1019
165°	922	925	924	921	924	933	928	924	922	925	924
167.5°	855	846	856	855	856	861	860	858	855	846	856
170°	793	784	794	793	794	795	798	796	793	784	794
172.5°	737	733	739	734	737	736	743	738	737	733	739
175°	695	697	695	692	694	695	713	695	695	697	695
177.5°	673	673	673	671	672	675	694	681	673	673	673
180°	669	669	669	669	669	669	669	669	669	669	669



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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°	2	5	3
92.5°	55	62	101
95°	223	230	297
97.5°	417	444	527
100°	554	603	752
102.5°	709	739	973
105°	857	1011	1287
107.5°	1119	1277	1524
110°	1319	1471	1656



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CANDELA DISTRIBUTION (continued):

	330°	340°	360°
112.5°	1496	1638	1709
115°	1677	1756	1760
117.5°	1819	1867	1869
120°	1917	1940	1934
122.5°	1998	1958	1991
125°	2020	2032	2068
127.5°	2025	2074	2196
130°	2013	2054	2279
132.5°	1992	1999	2266
135°	1968	1956	2201
137.5°	1909	1966	2138
140°	1874	1972	2058
142.5°	1860	1944	1962
145°	1839	1863	1834
147.5°	1770	1758	1684
150°	1649	1637	1547
152.5°	1513	1505	1415
155°	1385	1357	1298
157.5°	1247	1212	1192
160°	1112	1086	1096
162.5°	1000	995	1010
165°	921	924	933
167.5°	855	856	861
170°	793	794	795
172.5°	734	737	736
175°	692	694	695
177.5°	671	672	675
180°	669	669	669

(END OF REPORT)