

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331731

Luminaire Tested: **SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331731
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7509.1 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

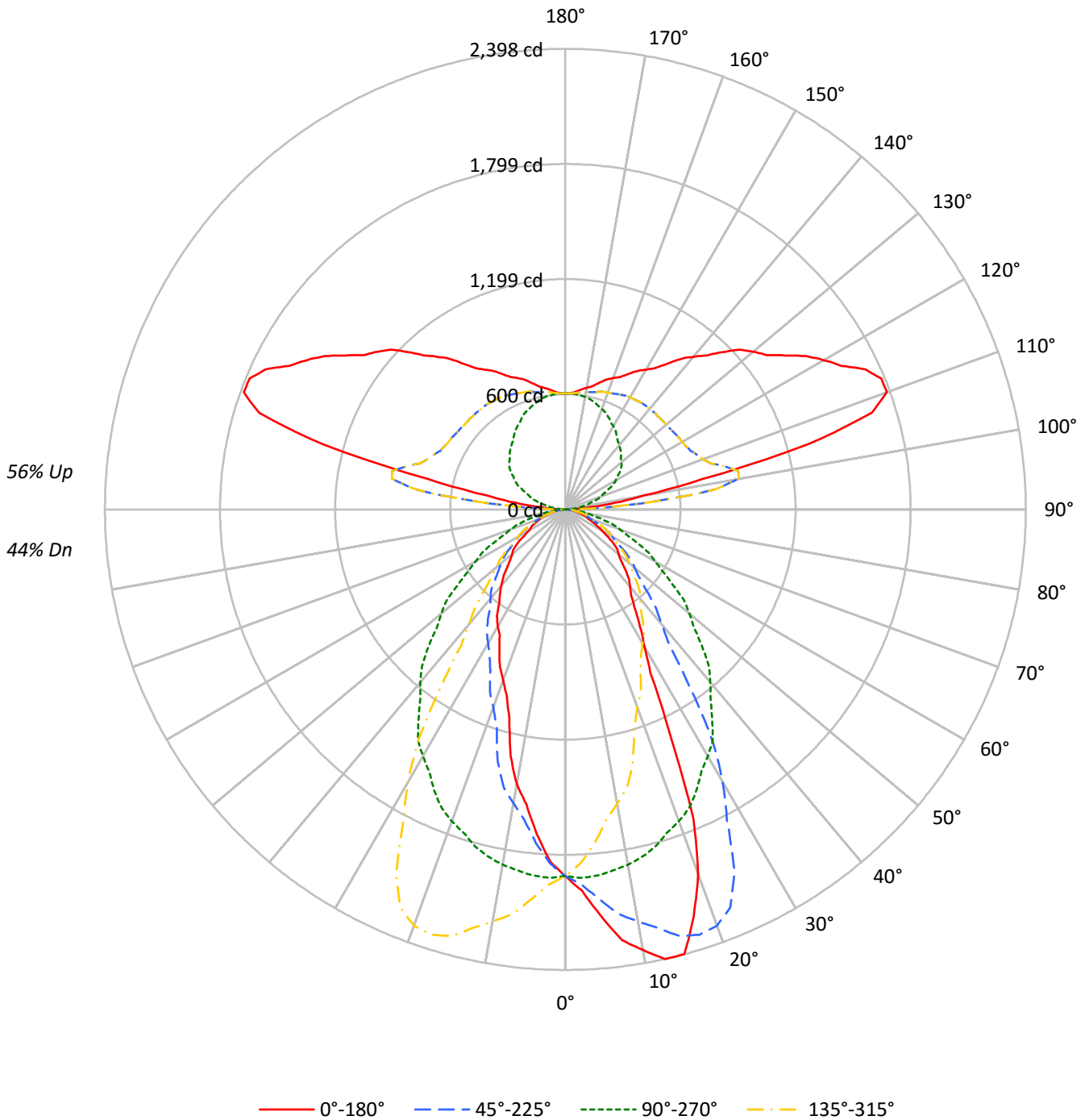
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	86	89	85	82	80	71	69	67	58	56	55	46	45	44	38
2	89	82	76	72	81	75	71	66	63	60	57	52	49	47	41	40	38	33
3	82	73	66	61	75	67	61	56	56	52	48	46	43	41	37	35	33	29
4	75	65	58	52	69	60	54	49	51	46	42	42	38	36	34	31	29	26
5	69	58	51	45	63	54	47	42	46	41	37	38	34	31	31	28	26	23
6	64	53	45	39	59	49	42	37	41	36	32	35	31	28	28	26	23	21
7	59	48	40	35	54	44	38	33	38	33	29	32	28	25	26	23	21	19
8	55	44	36	31	51	40	34	29	35	30	26	29	25	23	24	21	19	17
9	52	40	33	28	47	37	31	26	32	27	23	27	23	21	22	20	18	16
10	48	37	30	25	44	34	28	24	30	25	21	25	21	19	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	30832	30832	30832	30832
5°	34434	31024	27509	31024
10°	38203	30808	23845	30808
15°	40082	30355	18788	30355
20°	34749	29687	16258	29687
25°	22789	28771	14516	28771
30°	15340	27660	13136	27660
35°	12423	26260	11848	26260
40°	11049	24738	10964	24738
45°	9999	22952	9787	22952
50°	9100	21182	9065	21182
55°	8555	19220	8442	19220
60°	7156	17418	7072	17418
65°	6032	15817	6842	15817
70°	5575	14124	6453	14124
75°	5215	12296	5958	12296
80°	4816	10116	5309	10116
85°	4428	7984	4668	7984



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	2.4
10°-20°	504.4	6.7
20°-30°	650.0	8.7
30°-40°	617.7	8.2
40°-50°	529.1	7.0
50°-60°	402.9	5.4
60°-70°	254.7	3.4
70°-80°	127.2	1.7
80°-90°	38.5	0.5
90°-100°	241.5	3.2
100°-110°	819.6	10.9
110°-120°	870.7	11.6
120°-130°	716.8	9.5
130°-140°	575.6	7.7
140°-150°	435.0	5.8
150°-160°	305.7	4.1
160°-170°	180.0	2.4
170°-180°	58.6	0.8
0°-30°	1335.4	17.8
0°-40°	1953.1	26.0
0°-60°	2885.1	38.4
0°-90°	3305.6	44.0
90°-120°	1931.9	25.7
90°-150°	3659.3	48.7
90°-180°	4204.0	56.0
0°-180°	7509.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1910	1910	1910	1910	1910	
5°	2125	1914	1697	1914	2125	210
15°	2398	1816	1124	1816	2398	647
25°	1279	1615	815	1615	1279	607
35°	630	1332	601	1332	630	403
45°	438	1005	429	1005	438	339
55°	304	683	300	683	304	267
65°	158	414	179	414	158	161
75°	84	197	96	197	84	89
85°	24	43	25	43	24	27
90°	38	1	38	1	38	22
95°	132	41	132	41	132	172
105°	1309	142	1309	142	1309	1267
115°	1723	250	1723	250	1723	1687
125°	1398	348	1398	348	1398	1263
135°	1158	409	1158	409	1158	900
145°	925	467	925	467	925	587
155°	777	531	777	531	777	363
165°	682	578	682	578	682	195
175°	614	603	614	603	614	60
180°	604	604	604	604	604	



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1987.1	1988.7	1990.3	1986.5	1986.5	1983.4	1976.5	1971.2	1956.3	1954.2	1954.2
5°	2124.6	2123.2	2125.9	2117.3	2105.3	2102.7	2090.1	2073.5	2056.2	2037.0	2033.0
7.5°	2261.2	2259.2	2253.9	2252.5	2243.3	2223.3	2203.0	2181.4	2152.7	2124.7	2110.6
10°	2330.2	2352.1	2338.9	2315.6	2320.3	2289.1	2272.5	2244.0	2220.1	2178.3	2169.0
12.5°	2398.2	2406.8	2402.6	2389.4	2383.5	2361.8	2339.4	2314.6	2270.5	2233.0	2200.3
15°	2397.9	2410.5	2413.8	2409.9	2413.2	2411.9	2399.9	2379.3	2340.9	2299.7	2263.9
17.5°	2220.9	2229.7	2251.4	2266.1	2284.7	2324.0	2343.4	2350.9	2345.2	2321.7	2296.5
20°	2022.4	2007.8	2068.8	2100.0	2126.5	2192.9	2250.0	2271.9	2307.0	2306.4	2299.7
22.5°	1741.0	1744.5	1802.4	1839.4	1916.9	1983.2	2048.3	2130.7	2198.7	2243.7	2270.0
25°	1279.2	1304.5	1362.2	1412.6	1498.9	1622.3	1734.4	1864.5	1987.2	2084.1	2176.3
27.5°	960.8	962.6	1008.4	1055.0	1106.2	1207.3	1348.5	1503.8	1678.8	1823.2	1989.3
30°	822.8	818.8	838.0	866.5	910.3	988.6	1094.8	1247.4	1421.9	1639.5	1833.3
32.5°	725.1	725.3	739.8	760.9	797.3	850.1	922.8	1046.8	1211.7	1425.6	1652.8
35°	630.3	629.7	640.3	655.5	670.8	704.6	754.4	819.4	932.9	1132.6	1364.8
37.5°	562.4	565.3	570.5	580.0	596.9	615.7	645.6	689.3	770.1	888.2	1083.4
40°	524.2	525.5	532.8	540.8	550.7	565.3	589.9	625.0	684.1	778.3	920.9
42.5°	489.1	490.5	495.6	503.1	510.9	525.5	545.8	576.2	624.1	697.6	815.3
45°	437.9	437.9	442.6	445.9	454.5	467.8	484.4	509.6	542.7	597.2	675.5
47.5°	389.9	390.0	393.1	398.8	404.2	414.6	430.9	451.5	475.6	517.7	584.6
50°	362.3	362.9	364.9	369.6	372.9	382.2	394.8	412.7	437.9	470.4	526.2
52.5°	340.0	339.6	342.1	344.1	346.4	353.0	362.4	378.2	400.8	429.0	475.2
55°	303.9	301.2	305.2	308.5	310.5	313.2	318.5	328.4	347.7	371.6	406.1
57.5°	258.8	257.7	260.5	263.5	269.8	276.9	281.5	287.8	297.8	314.9	349.1
60°	221.6	221.6	227.6	229.6	236.9	246.2	255.5	260.8	270.7	282.0	307.2
62.5°	188.7	189.2	192.0	194.0	198.1	209.5	222.5	234.2	243.6	254.4	271.1
65°	157.9	159.2	159.2	160.6	163.2	165.9	171.2	180.5	197.1	212.3	224.9
67.5°	134.0	134.4	134.8	136.2	136.8	139.7	141.9	146.0	149.8	164.3	179.9
70°	118.1	120.1	119.4	120.8	121.4	122.7	125.4	127.4	133.4	136.7	146.0
72.5°	103.2	104.7	104.6	105.4	107.1	107.4	109.5	111.5	115.3	118.1	123.1
75°	83.6	82.9	83.6	84.9	85.6	86.3	86.3	88.9	90.9	93.6	96.9
77.5°	64.5	65.2	65.0	65.2	65.3	66.5	66.4	67.5	69.5	70.9	72.5
80°	51.8	52.4	51.8	52.4	53.1	53.7	53.1	53.7	55.7	57.1	57.1
82.5°	40.1	40.2	40.6	40.7	40.9	41.0	41.9	42.1	43.5	43.3	43.8
85°	23.9	23.2	23.2	23.2	23.9	24.5	23.9	23.9	24.5	24.5	24.5
87.5°	16.2	16.7	16.7	16.7	16.7	16.5	16.0	17.0	16.7	17.5	16.7
90°	38.3	38.3	38.3	38.3	38.3	37.2	34.9	37.2	38.3	39.5	38.3
92.5°	64.4	66.2	65.3	69.0	69.9	77.1	86.9	101.3	127.6	151.0	148.9
95°	132.4	131.3	134.8	144.0	159.1	184.7	233.5	304.4	398.5	455.4	403.1
97.5°	260.7	270.4	287.4	316.0	371.5	455.4	581.1	710.2	815.5	777.4	585.5
100°	415.9	436.8	470.5	520.4	616.8	757.4	916.6	1060.6	1085.0	917.7	631.9
102.5°	731.9	760.2	802.3	887.5	992.3	1141.2	1257.6	1290.2	1185.4	922.4	614.3
105°	1309.2	1325.5	1375.4	1447.4	1519.5	1557.8	1542.7	1411.4	1169.8	860.8	579.7
107.5°	1672.3	1693.9	1703.9	1707.9	1698.8	1642.6	1521.8	1324.1	1067.8	794.8	562.5
110°	1782.0	1783.2	1772.7	1750.6	1700.7	1605.4	1456.7	1248.8	1003.7	763.2	558.8



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1780.1	1773.9	1754.1	1717.2	1647.7	1538.5	1379.6	1180.0	959.1	742.8	559.7
115°	1722.8	1712.3	1682.1	1628.7	1546.2	1426.5	1274.4	1095.5	903.8	720.2	564.6
117.5°	1620.3	1611.5	1579.6	1523.2	1439.1	1326.9	1188.9	1031.8	868.9	709.3	572.9
120°	1554.3	1542.7	1509.0	1454.4	1373.1	1267.4	1144.2	1000.2	850.3	702.8	578.5
122.5°	1485.5	1475.8	1445.8	1392.1	1319.2	1223.7	1107.1	975.1	834.5	699.1	585.0
125°	1397.5	1388.2	1359.2	1315.0	1247.6	1160.5	1058.3	938.6	812.0	692.4	594.8
127.5°	1320.4	1312.9	1287.8	1246.5	1187.7	1107.3	1010.9	902.6	791.1	688.4	604.8
130°	1276.7	1267.4	1244.2	1204.7	1147.7	1071.1	979.3	879.4	777.2	686.5	612.2
132.5°	1231.1	1222.8	1201.4	1161.9	1105.9	1033.9	949.6	857.1	766.0	685.6	619.6
135°	1158.2	1153.5	1132.6	1094.3	1044.3	979.3	902.6	825.9	750.4	684.2	628.5
137.5°	1086.6	1079.7	1061.3	1028.3	982.8	926.1	865.2	801.1	739.5	684.0	636.4
140°	1037.4	1030.4	1013.0	982.8	945.6	894.5	841.1	785.3	733.0	683.1	640.1
142.5°	988.1	986.7	971.2	943.7	908.4	865.7	819.7	772.3	726.5	683.1	642.9
145°	924.7	921.2	909.6	889.8	862.0	828.3	792.3	753.9	717.9	680.7	645.9
147.5°	871.5	869.4	861.5	845.7	822.7	798.1	770.0	739.8	709.1	676.6	646.8
150°	839.9	838.7	831.8	817.8	800.4	779.5	755.1	729.5	701.6	673.8	645.9
152.5°	812.9	812.7	807.6	795.5	781.8	763.7	743.0	719.3	695.1	669.1	644.0
155°	777.2	779.5	774.8	766.7	753.9	741.1	723.7	705.1	683.1	661.0	641.2
157.5°	746.7	746.7	744.6	737.9	728.8	718.8	704.2	688.6	671.7	652.6	635.9
160°	727.2	727.2	726.0	720.2	712.1	704.0	691.2	678.4	663.3	647.1	633.1
162.5°	708.6	709.5	708.4	704.4	696.3	690.0	679.1	668.2	655.9	642.4	630.3
165°	681.9	683.1	683.1	678.4	673.8	669.1	661.0	652.9	643.6	633.1	625.0
167.5°	657.3	658.7	658.9	656.3	654.3	650.1	644.5	638.2	631.5	625.0	619.6
170°	642.4	644.7	645.9	642.4	641.2	638.9	634.3	630.8	625.0	620.3	616.8
172.5°	630.3	631.7	632.9	631.3	630.1	628.7	625.0	622.4	618.5	614.8	613.1
175°	614.5	616.8	618.0	616.8	616.8	615.7	614.5	613.4	609.9	608.7	607.6
177.5°	605.0	606.9	607.8	607.8	607.8	607.8	606.9	606.9	605.0	604.1	605.0
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1955.2	1951.0	1947.3	1937.7	1932.9	1922.3	1920.7	1920.2	1906.4	1893.1	1889.4
5°	2022.4	2011.8	1995.8	1977.3	1958.0	1938.1	1924.8	1914.2	1887.7	1862.5	1847.9
7.5°	2090.1	2067.2	2039.8	2004.6	1975.3	1942.4	1917.9	1896.0	1858.4	1822.3	1798.0
10°	2140.5	2103.3	2066.8	2018.4	1980.6	1943.4	1908.9	1879.1	1836.6	1788.8	1755.0
12.5°	2171.8	2130.9	2080.6	2033.3	1984.3	1937.0	1890.9	1852.5	1802.6	1753.3	1713.0
15°	2214.1	2170.3	2109.3	2041.6	1978.6	1916.9	1863.8	1816.0	1751.0	1691.9	1642.8
17.5°	2248.8	2188.5	2123.0	2044.7	1971.7	1893.3	1824.9	1763.9	1691.5	1620.3	1562.4
20°	2259.9	2200.2	2124.6	2046.3	1960.0	1867.8	1794.1	1727.8	1650.1	1572.5	1506.2
22.5°	2253.0	2206.6	2122.4	2028.7	1940.4	1843.9	1760.7	1683.7	1597.6	1518.4	1441.4
25°	2206.2	2190.2	2110.6	2008.4	1907.6	1795.5	1699.2	1615.0	1516.8	1431.9	1348.2
27.5°	2097.0	2131.3	2082.0	1973.1	1861.0	1740.8	1632.6	1536.7	1434.8	1339.2	1255.9
30°	1991.9	2070.8	2049.6	1948.7	1823.3	1705.2	1583.8	1483.6	1374.8	1276.6	1194.3
32.5°	1848.0	1978.4	1999.2	1914.8	1785.1	1655.3	1528.1	1428.4	1314.8	1211.3	1131.1
35°	1619.0	1814.0	1903.6	1849.9	1719.8	1579.8	1448.4	1332.3	1218.2	1116.0	1036.4
37.5°	1345.7	1611.4	1760.7	1764.5	1645.1	1499.5	1356.5	1241.2	1124.4	1024.1	937.9
40°	1168.4	1456.4	1650.8	1693.9	1593.1	1435.8	1291.2	1173.7	1059.6	961.4	862.6
42.5°	1009.2	1296.1	1535.1	1610.1	1529.9	1373.7	1228.6	1105.8	994.9	902.0	801.0
45°	816.1	1066.9	1330.3	1464.4	1419.9	1275.3	1122.0	1005.2	901.0	820.8	723.9
47.5°	688.5	865.2	1120.1	1301.4	1300.6	1168.6	1017.8	906.0	809.3	734.1	655.7
50°	615.7	769.7	985.3	1191.0	1208.2	1097.4	954.1	843.3	753.1	674.1	611.1
52.5°	550.4	677.3	871.2	1068.4	1117.5	1021.5	882.5	780.2	692.6	620.0	566.0
55°	465.1	563.3	710.6	895.1	969.4	901.7	778.3	682.8	611.8	550.7	504.3
57.5°	393.5	467.1	585.3	733.8	820.4	777.8	676.0	598.4	537.6	482.4	445.7
60°	348.3	408.7	508.9	633.0	728.5	698.7	611.8	539.4	487.7	439.9	405.4
62.5°	305.9	357.8	443.6	544.3	631.9	619.6	548.6	487.9	442.6	399.0	369.8
65°	246.2	284.0	351.0	430.0	500.3	506.3	455.2	414.0	373.6	339.1	313.2
67.5°	196.0	220.7	267.9	334.4	387.1	405.9	374.7	343.3	311.2	284.5	262.1
70°	165.2	185.1	219.6	273.4	321.8	341.7	323.8	299.2	271.4	249.5	230.2
72.5°	133.9	153.3	178.7	218.2	259.7	281.2	275.0	257.3	234.7	216.6	198.4
75°	100.9	106.8	124.1	150.6	183.1	201.7	206.4	197.1	179.1	165.2	154.6
77.5°	74.6	78.2	86.4	100.3	121.6	138.1	144.9	143.8	131.5	123.4	113.5
80°	59.7	61.7	65.7	71.7	87.6	104.2	108.8	108.8	100.2	96.9	86.9
82.5°	45.4	46.8	49.2	52.5	60.0	74.4	79.6	80.7	75.2	70.9	63.0
85°	25.9	25.2	26.5	28.5	29.9	33.8	41.8	43.1	41.8	36.5	34.5
87.5°	15.3	14.2	13.0	11.8	11.9	11.9	13.7	15.6	14.2	13.5	12.9
90°	31.4	23.2	17.4	13.9	11.6	9.3	4.6	1.2	4.6	9.3	11.6
92.5°	115.9	79.0	52.7	41.8	33.9	28.8	20.4	14.2	20.4	28.8	33.9
95°	268.3	167.3	113.8	86.0	67.4	56.9	45.3	40.7	45.3	56.9	67.4
97.5°	361.5	220.7	153.6	122.0	100.6	84.8	72.5	66.2	72.5	84.8	100.6
100°	381.0	239.3	177.7	145.2	122.0	103.4	92.9	89.4	92.9	103.4	122.0
102.5°	382.0	256.0	199.1	166.6	142.4	123.8	113.4	110.8	113.4	123.8	142.4
105°	388.0	284.6	230.0	197.5	171.9	154.5	146.4	141.7	146.4	154.5	171.9
107.5°	404.0	313.9	260.9	228.2	202.8	186.8	178.9	175.2	178.9	186.8	202.8
110°	417.0	333.4	282.3	248.6	224.2	209.1	202.1	197.5	202.1	209.1	224.2



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	431.0	352.0	302.7	268.1	244.6	230.5	222.6	217.9	222.6	230.5	244.6
115°	451.9	381.0	331.1	299.7	276.5	262.5	255.6	249.8	255.6	262.5	276.5
117.5°	474.2	407.7	361.5	329.0	306.7	294.4	287.4	282.8	287.4	294.4	306.7
120°	489.1	426.3	381.0	348.5	325.3	314.8	307.8	303.2	307.8	314.8	325.3
122.5°	502.1	444.0	401.5	368.0	344.8	333.4	326.4	322.7	326.4	333.4	344.8
125°	522.8	470.5	428.7	396.1	372.9	359.0	352.0	348.5	352.0	359.0	372.9
127.5°	542.0	495.1	454.4	421.0	398.7	383.4	373.6	368.9	373.6	383.4	398.7
130°	554.1	510.0	469.3	436.8	413.6	397.3	385.7	381.0	385.7	397.3	413.6
132.5°	566.2	523.0	484.2	451.7	427.5	410.3	397.8	392.2	397.8	410.3	427.5
135°	582.0	541.3	504.2	471.6	444.9	427.5	413.6	408.9	413.6	427.5	444.9
137.5°	594.1	556.2	519.5	489.3	462.8	444.2	430.3	424.7	430.3	444.2	462.8
140°	600.6	564.6	529.7	499.5	474.0	455.4	441.4	436.8	441.4	455.4	474.0
142.5°	606.2	571.1	537.2	508.8	484.2	465.6	452.6	448.9	452.6	465.6	484.2
145°	613.4	580.8	549.5	523.9	500.7	483.3	471.6	467.0	471.6	483.3	500.7
147.5°	617.3	588.7	559.2	536.5	517.2	501.1	490.0	486.5	490.0	501.1	517.2
150°	619.2	592.5	565.7	544.8	527.4	512.3	503.0	499.5	503.0	512.3	527.4
152.5°	620.1	596.2	572.2	553.2	536.7	523.4	514.2	512.5	514.2	523.4	536.7
155°	621.5	601.7	582.0	564.6	551.8	539.0	532.0	530.9	532.0	539.0	551.8
157.5°	621.5	605.7	589.0	574.3	564.1	553.0	547.4	546.2	547.4	553.0	564.1
160°	621.5	607.6	593.6	580.8	571.5	562.2	557.6	556.4	557.6	562.2	571.5
162.5°	620.6	608.5	596.4	586.4	578.0	570.6	566.0	566.7	566.0	570.6	578.0
165°	618.0	609.9	599.4	592.5	586.6	579.7	577.4	578.5	577.4	579.7	586.6
167.5°	616.4	609.6	602.0	597.6	593.4	589.0	586.9	588.3	586.9	589.0	593.4
170°	614.5	608.7	602.9	599.4	597.1	593.6	592.5	594.8	592.5	593.6	597.1
172.5°	611.7	607.8	603.8	601.3	599.9	596.4	597.1	598.5	597.1	596.4	599.9
175°	608.7	606.4	604.1	602.9	602.9	600.6	601.7	602.9	601.7	600.6	602.9
177.5°	606.9	605.0	604.1	604.1	604.1	602.2	603.1	605.0	603.1	602.2	604.1
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1882.5	1878.8	1871.9	1861.3	1854.9	1843.8	1836.3	1840.6	1841.6	1840.6	1839.5
5°	1831.9	1818.0	1798.8	1780.2	1762.9	1744.4	1733.7	1729.1	1719.8	1714.5	1711.9
7.5°	1770.8	1746.8	1719.5	1687.2	1659.7	1630.9	1616.2	1608.9	1589.9	1579.5	1570.5
10°	1725.1	1687.3	1660.1	1617.6	1591.8	1553.9	1528.1	1528.7	1502.8	1488.2	1477.6
12.5°	1674.7	1633.2	1587.9	1549.7	1513.7	1483.3	1452.2	1439.5	1412.1	1398.0	1369.3
15°	1591.1	1542.7	1494.9	1443.1	1406.6	1359.5	1314.4	1259.3	1214.9	1176.4	1165.8
17.5°	1499.8	1439.8	1391.9	1331.1	1268.6	1189.4	1137.1	1105.1	1078.3	1058.0	1042.9
20°	1437.2	1376.1	1325.0	1233.5	1149.2	1095.5	1057.0	1032.4	1004.6	982.7	970.7
22.5°	1371.3	1307.6	1238.0	1135.8	1070.1	1027.0	992.7	964.5	945.6	928.5	917.6
25°	1277.9	1208.2	1093.5	1023.1	970.0	924.9	901.0	883.8	863.9	840.7	830.0
27.5°	1179.2	1068.4	986.0	933.7	883.0	853.7	832.2	806.4	788.6	778.2	767.1
30°	1105.4	994.6	930.2	873.2	837.3	804.8	779.6	765.0	747.8	729.9	722.6
32.5°	1023.1	934.6	872.9	825.4	789.0	761.3	741.4	717.8	705.3	694.3	679.0
35°	920.9	853.9	797.5	759.1	724.6	702.0	678.8	664.8	642.3	633.0	627.0
37.5°	834.4	776.3	734.2	693.6	666.3	641.3	627.1	605.0	595.2	582.3	569.7
40°	785.6	728.5	688.1	654.9	624.4	605.8	587.9	570.0	555.4	549.4	534.1
42.5°	735.7	689.3	648.8	612.4	592.0	572.3	549.7	536.5	521.4	511.7	502.3
45°	666.8	625.7	591.2	561.3	538.8	518.2	503.6	481.7	473.1	453.8	445.9
47.5°	606.3	568.1	535.2	506.8	484.8	471.4	450.0	432.9	419.1	407.3	397.0
50°	563.3	531.5	499.6	474.4	454.5	435.3	413.4	404.7	383.5	377.5	371.6
52.5°	524.0	493.8	464.6	439.9	420.0	401.3	382.0	370.8	356.4	350.5	346.1
55°	469.1	439.9	412.0	390.1	370.2	351.0	339.1	325.1	318.5	313.8	308.5
57.5°	413.9	387.6	366.3	344.1	324.1	308.8	295.0	286.6	279.7	273.6	267.3
60°	378.9	353.6	334.4	313.8	293.3	280.7	270.0	260.1	252.1	242.8	240.2
62.5°	341.7	319.7	302.0	282.0	264.1	252.5	242.4	233.0	223.5	209.9	206.2
65°	290.6	273.4	254.8	238.2	222.3	211.0	196.4	185.8	181.8	180.5	179.8
67.5°	244.4	228.1	212.2	195.2	180.7	170.3	162.8	161.2	158.4	157.6	155.8
70°	213.6	198.4	182.5	166.5	152.6	150.6	148.0	145.3	142.0	140.7	139.3
72.5°	186.0	170.3	154.3	141.6	135.6	133.1	130.4	127.8	125.5	124.2	123.4
75°	142.7	128.1	117.4	112.8	109.5	107.5	103.5	101.5	100.2	98.2	97.5
77.5°	102.7	94.5	89.6	86.7	83.2	81.1	78.8	76.8	75.4	75.0	73.9
80°	78.3	74.3	71.0	67.0	65.7	63.0	62.4	60.4	61.0	59.1	59.1
82.5°	60.8	55.7	52.9	51.1	49.8	47.6	47.0	46.0	46.2	44.7	44.7
85°	31.2	29.9	28.5	27.2	27.2	25.2	25.9	25.2	25.2	23.9	23.2
87.5°	12.9	13.0	13.1	14.8	16.2	15.9	15.6	14.9	14.4	14.9	14.6
90°	13.9	17.4	23.2	31.4	38.3	39.5	38.3	37.2	34.9	37.2	38.3
92.5°	41.8	52.7	79.0	115.9	148.9	151.0	127.6	101.3	86.9	77.1	69.9
95°	86.0	113.8	167.3	268.3	403.1	455.4	398.5	304.4	233.5	184.7	159.1
97.5°	122.0	153.6	220.7	361.5	585.5	777.4	815.5	710.2	581.1	455.4	371.5
100°	145.2	177.7	239.3	381.0	631.9	917.7	1085.0	1060.6	916.6	757.4	616.8
102.5°	166.6	199.1	256.0	382.0	614.3	922.4	1185.4	1290.2	1257.6	1141.2	992.3
105°	197.5	230.0	284.6	388.0	579.7	860.8	1169.8	1411.4	1542.7	1557.8	1519.5
107.5°	228.2	260.9	313.9	404.0	562.5	794.8	1067.8	1324.1	1521.8	1642.6	1698.8
110°	248.6	282.3	333.4	417.0	558.8	763.2	1003.7	1248.8	1456.7	1605.4	1700.7



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	268.1	302.7	352.0	431.0	559.7	742.8	959.1	1180.0	1379.6	1538.5	1647.7
115°	299.7	331.1	381.0	451.9	564.6	720.2	903.8	1095.5	1274.4	1426.5	1546.2
117.5°	329.0	361.5	407.7	474.2	572.9	709.3	868.9	1031.8	1188.9	1326.9	1439.1
120°	348.5	381.0	426.3	489.1	578.5	702.8	850.3	1000.2	1144.2	1267.4	1373.1
122.5°	368.0	401.5	444.0	502.1	585.0	699.1	834.5	975.1	1107.1	1223.7	1319.2
125°	396.1	428.7	470.5	522.8	594.8	692.4	812.0	938.6	1058.3	1160.5	1247.6
127.5°	421.0	454.4	495.1	542.0	604.8	688.4	791.1	902.6	1010.9	1107.3	1187.7
130°	436.8	469.3	510.0	554.1	612.2	686.5	777.2	879.4	979.3	1071.1	1147.7
132.5°	451.7	484.2	523.0	566.2	619.6	685.6	766.0	857.1	949.6	1033.9	1105.9
135°	471.6	504.2	541.3	582.0	628.5	684.2	750.4	825.9	902.6	979.3	1044.3
137.5°	489.3	519.5	556.2	594.1	636.4	684.0	739.5	801.1	865.2	926.1	982.8
140°	499.5	529.7	564.6	600.6	640.1	683.1	733.0	785.3	841.1	894.5	945.6
142.5°	508.8	537.2	571.1	606.2	642.9	683.1	726.5	772.3	819.7	865.7	908.4
145°	523.9	549.5	580.8	613.4	645.9	680.7	717.9	753.9	792.3	828.3	862.0
147.5°	536.5	559.2	588.7	617.3	646.8	676.6	709.1	739.8	770.0	798.1	822.7
150°	544.8	565.7	592.5	619.2	645.9	673.8	701.6	729.5	755.1	779.5	800.4
152.5°	553.2	572.2	596.2	620.1	644.0	669.1	695.1	719.3	743.0	763.7	781.8
155°	564.6	582.0	601.7	621.5	641.2	661.0	683.1	705.1	723.7	741.1	753.9
157.5°	574.3	589.0	605.7	621.5	635.9	652.6	671.7	688.6	704.2	718.8	728.8
160°	580.8	593.6	607.6	621.5	633.1	647.1	663.3	678.4	691.2	704.0	712.1
162.5°	586.4	596.4	608.5	620.6	630.3	642.4	655.9	668.2	679.1	690.0	696.3
165°	592.5	599.4	609.9	618.0	625.0	633.1	643.6	652.9	661.0	669.1	673.8
167.5°	597.6	602.0	609.6	616.4	619.6	625.0	631.5	638.2	644.5	650.1	654.3
170°	599.4	602.9	608.7	614.5	616.8	620.3	625.0	630.8	634.3	638.9	641.2
172.5°	601.3	603.8	607.8	611.7	613.1	614.8	618.5	622.4	625.0	628.7	630.1
175°	602.9	604.1	606.4	608.7	607.6	608.7	609.9	613.4	614.5	615.7	616.8
177.5°	604.1	604.1	605.0	606.9	605.0	604.1	605.0	606.9	606.9	607.8	607.8
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1833.7	1834.7	1833.1	1834.2	1833.1	1834.7	1833.7	1839.5	1840.6	1841.6	1840.6
5°	1708.5	1700.6	1699.2	1697.3	1699.2	1700.6	1708.5	1711.9	1714.5	1719.8	1729.1
7.5°	1559.1	1557.9	1554.6	1550.0	1554.6	1557.9	1559.1	1570.5	1579.5	1589.9	1608.9
10°	1463.0	1459.7	1459.1	1454.4	1459.1	1459.7	1463.0	1477.6	1488.2	1502.8	1528.7
12.5°	1350.5	1329.1	1326.9	1315.3	1326.9	1329.1	1350.5	1369.3	1398.0	1412.1	1439.5
15°	1149.9	1145.9	1132.6	1124.0	1132.6	1145.9	1149.9	1165.8	1176.4	1214.9	1259.3
17.5°	1035.2	1022.2	1018.1	1016.2	1018.1	1022.2	1035.2	1042.9	1058.0	1078.3	1105.1
20°	961.4	949.5	947.5	946.2	947.5	949.5	961.4	970.7	982.7	1004.6	1032.4
22.5°	910.5	898.0	892.8	888.8	892.8	898.0	910.5	917.6	928.5	945.6	964.5
25°	823.4	818.8	816.1	814.8	816.1	818.8	823.4	830.0	840.7	863.9	883.8
27.5°	755.3	745.1	743.1	739.7	743.1	745.1	755.3	767.1	778.2	788.6	806.4
30°	716.6	713.3	708.6	704.6	708.6	713.3	716.6	722.6	729.9	747.8	765.0
32.5°	670.9	668.2	664.0	662.2	664.0	668.2	670.9	679.0	694.3	705.3	717.8
35°	620.4	611.1	607.1	601.1	607.1	611.1	620.4	627.0	633.0	642.3	664.8
37.5°	566.9	562.0	556.4	558.4	556.4	562.0	566.9	569.7	582.3	595.2	605.0
40°	525.5	522.2	520.9	520.2	520.9	522.2	525.5	534.1	549.4	555.4	570.0
42.5°	492.6	483.4	480.0	479.8	480.0	483.4	492.6	502.3	511.7	521.4	536.5
45°	442.6	433.9	428.0	428.6	428.0	433.9	442.6	445.9	453.8	473.1	481.7
47.5°	391.3	391.1	387.4	388.6	387.4	391.1	391.3	397.0	407.3	419.1	432.9
50°	366.9	362.9	360.3	360.9	360.3	362.9	366.9	371.6	377.5	383.5	404.7
52.5°	343.6	340.1	338.0	340.8	338.0	340.1	343.6	346.1	350.5	356.4	370.8
55°	305.2	301.2	300.6	299.9	300.6	301.2	305.2	308.5	313.8	318.5	325.1
57.5°	262.4	259.7	255.7	254.0	255.7	259.7	262.4	267.3	273.6	279.7	286.6
60°	231.6	226.3	219.6	219.0	219.6	226.3	231.6	240.2	242.8	252.1	260.1
62.5°	203.4	202.4	201.0	200.9	201.0	202.4	203.4	206.2	209.9	223.5	233.0
65°	178.5	177.8	178.5	179.1	178.5	177.8	178.5	179.8	180.5	181.8	185.8
67.5°	155.5	154.3	153.1	153.7	153.1	154.3	155.5	155.8	157.6	158.4	161.2
70°	138.0	137.3	136.7	136.7	136.7	137.3	138.0	139.3	140.7	142.0	145.3
72.5°	121.0	120.9	120.2	119.7	120.2	120.9	121.0	123.4	124.2	125.5	127.8
75°	96.9	95.5	95.5	95.5	95.5	95.5	96.9	97.5	98.2	100.2	101.5
77.5°	73.8	73.1	72.5	71.9	72.5	73.1	73.8	73.9	75.0	75.4	76.8
80°	58.4	57.7	57.1	57.1	57.1	57.7	58.4	59.1	59.1	61.0	60.4
82.5°	44.6	43.9	43.8	43.3	43.8	43.9	44.6	44.7	44.7	46.2	46.0
85°	23.9	24.5	23.9	25.2	23.9	24.5	23.9	23.2	23.9	25.2	25.2
87.5°	14.6	14.0	14.6	14.0	14.6	14.0	14.6	14.6	14.9	14.4	14.9
90°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	37.2	34.9	37.2
92.5°	69.0	65.3	66.2	64.4	66.2	65.3	69.0	69.9	77.1	86.9	101.3
95°	144.0	134.8	131.3	132.4	131.3	134.8	144.0	159.1	184.7	233.5	304.4
97.5°	316.0	287.4	270.4	260.7	270.4	287.4	316.0	371.5	455.4	581.1	710.2
100°	520.4	470.5	436.8	415.9	436.8	470.5	520.4	616.8	757.4	916.6	1060.6
102.5°	887.5	802.3	760.2	731.9	760.2	802.3	887.5	992.3	1141.2	1257.6	1290.2
105°	1447.4	1375.4	1325.5	1309.2	1325.5	1375.4	1447.4	1519.5	1557.8	1542.7	1411.4
107.5°	1707.9	1703.9	1693.9	1672.3	1693.9	1703.9	1707.9	1698.8	1642.6	1521.8	1324.1
110°	1750.6	1772.7	1783.2	1782.0	1783.2	1772.7	1750.6	1700.7	1605.4	1456.7	1248.8



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1717.2	1754.1	1773.9	1780.1	1773.9	1754.1	1717.2	1647.7	1538.5	1379.6	1180.0
115°	1628.7	1682.1	1712.3	1722.8	1712.3	1682.1	1628.7	1546.2	1426.5	1274.4	1095.5
117.5°	1523.2	1579.6	1611.5	1620.3	1611.5	1579.6	1523.2	1439.1	1326.9	1188.9	1031.8
120°	1454.4	1509.0	1542.7	1554.3	1542.7	1509.0	1454.4	1373.1	1267.4	1144.2	1000.2
122.5°	1392.1	1445.8	1475.8	1485.5	1475.8	1445.8	1392.1	1319.2	1223.7	1107.1	975.1
125°	1315.0	1359.2	1388.2	1397.5	1388.2	1359.2	1315.0	1247.6	1160.5	1058.3	938.6
127.5°	1246.5	1287.8	1312.9	1320.4	1312.9	1287.8	1246.5	1187.7	1107.3	1010.9	902.6
130°	1204.7	1244.2	1267.4	1276.7	1267.4	1244.2	1204.7	1147.7	1071.1	979.3	879.4
132.5°	1161.9	1201.4	1222.8	1231.1	1222.8	1201.4	1161.9	1105.9	1033.9	949.6	857.1
135°	1094.3	1132.6	1153.5	1158.2	1153.5	1132.6	1094.3	1044.3	979.3	902.6	825.9
137.5°	1028.3	1061.3	1079.7	1086.6	1079.7	1061.3	1028.3	982.8	926.1	865.2	801.1
140°	982.8	1013.0	1030.4	1037.4	1030.4	1013.0	982.8	945.6	894.5	841.1	785.3
142.5°	943.7	971.2	986.7	988.1	986.7	971.2	943.7	908.4	865.7	819.7	772.3
145°	889.8	909.6	921.2	924.7	921.2	909.6	889.8	862.0	828.3	792.3	753.9
147.5°	845.7	861.5	869.4	871.5	869.4	861.5	845.7	822.7	798.1	770.0	739.8
150°	817.8	831.8	838.7	839.9	838.7	831.8	817.8	800.4	779.5	755.1	729.5
152.5°	795.5	807.6	812.7	812.9	812.7	807.6	795.5	781.8	763.7	743.0	719.3
155°	766.7	774.8	779.5	777.2	779.5	774.8	766.7	753.9	741.1	723.7	705.1
157.5°	737.9	744.6	746.7	746.7	746.7	744.6	737.9	728.8	718.8	704.2	688.6
160°	720.2	726.0	727.2	727.2	727.2	726.0	720.2	712.1	704.0	691.2	678.4
162.5°	704.4	708.4	709.5	708.6	709.5	708.4	704.4	696.3	690.0	679.1	668.2
165°	678.4	683.1	683.1	681.9	683.1	683.1	678.4	673.8	669.1	661.0	652.9
167.5°	656.3	658.9	658.7	657.3	658.7	658.9	656.3	654.3	650.1	644.5	638.2
170°	642.4	645.9	644.7	642.4	644.7	645.9	642.4	641.2	638.9	634.3	630.8
172.5°	631.3	632.9	631.7	630.3	631.7	632.9	631.3	630.1	628.7	625.0	622.4
175°	616.8	618.0	616.8	614.5	616.8	618.0	616.8	616.8	615.7	614.5	613.4
177.5°	607.8	607.8	606.9	605.0	606.9	607.8	607.8	607.8	607.8	606.9	606.9
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1836.3	1843.8	1854.9	1861.3	1871.9	1878.8	1882.5	1889.4	1893.1	1906.4	1920.2
5°	1733.7	1744.4	1762.9	1780.2	1798.8	1818.0	1831.9	1847.9	1862.5	1887.7	1914.2
7.5°	1616.2	1630.9	1659.7	1687.2	1719.5	1746.8	1770.8	1798.0	1822.3	1858.4	1896.0
10°	1528.1	1553.9	1591.8	1617.6	1660.1	1687.3	1725.1	1755.0	1788.8	1836.6	1879.1
12.5°	1452.2	1483.3	1513.7	1549.7	1587.9	1633.2	1674.7	1713.0	1753.3	1802.6	1852.5
15°	1314.4	1359.5	1406.6	1443.1	1494.9	1542.7	1591.1	1642.8	1691.9	1751.0	1816.0
17.5°	1137.1	1189.4	1268.6	1331.1	1391.9	1439.8	1499.8	1562.4	1620.3	1691.5	1763.9
20°	1057.0	1095.5	1149.2	1233.5	1325.0	1376.1	1437.2	1506.2	1572.5	1650.1	1727.8
22.5°	992.7	1027.0	1070.1	1135.8	1238.0	1307.6	1371.3	1441.4	1518.4	1597.6	1683.7
25°	901.0	924.9	970.0	1023.1	1093.5	1208.2	1277.9	1348.2	1431.9	1516.8	1615.0
27.5°	832.2	853.7	883.0	933.7	986.0	1068.4	1179.2	1255.9	1339.2	1434.8	1536.7
30°	779.6	804.8	837.3	873.2	930.2	994.6	1105.4	1194.3	1276.6	1374.8	1483.6
32.5°	741.4	761.3	789.0	825.4	872.9	934.6	1023.1	1131.1	1211.3	1314.8	1428.4
35°	678.8	702.0	724.6	759.1	797.5	853.9	920.9	1036.4	1116.0	1218.2	1332.3
37.5°	627.1	641.3	666.3	693.6	734.2	776.3	834.4	937.9	1024.1	1124.4	1241.2
40°	587.9	605.8	624.4	654.9	688.1	728.5	785.6	862.6	961.4	1059.6	1173.7
42.5°	549.7	572.3	592.0	612.4	648.8	689.3	735.7	801.0	902.0	994.9	1105.8
45°	503.6	518.2	538.8	561.3	591.2	625.7	666.8	723.9	820.8	901.0	1005.2
47.5°	450.0	471.4	484.8	506.8	535.2	568.1	606.3	655.7	734.1	809.3	906.0
50°	413.4	435.3	454.5	474.4	499.6	531.5	563.3	611.1	674.1	753.1	843.3
52.5°	382.0	401.3	420.0	439.9	464.6	493.8	524.0	566.0	620.0	692.6	780.2
55°	339.1	351.0	370.2	390.1	412.0	439.9	469.1	504.3	550.7	611.8	682.8
57.5°	295.0	308.8	324.1	344.1	366.3	387.6	413.9	445.7	482.4	537.6	598.4
60°	270.0	280.7	293.3	313.8	334.4	353.6	378.9	405.4	439.9	487.7	539.4
62.5°	242.4	252.5	264.1	282.0	302.0	319.7	341.7	369.8	399.0	442.6	487.9
65°	196.4	211.0	222.3	238.2	254.8	273.4	290.6	313.2	339.1	373.6	414.0
67.5°	162.8	170.3	180.7	195.2	212.2	228.1	244.4	262.1	284.5	311.2	343.3
70°	148.0	150.6	152.6	166.5	182.5	198.4	213.6	230.2	249.5	271.4	299.2
72.5°	130.4	133.1	135.6	141.6	154.3	170.3	186.0	198.4	216.6	234.7	257.3
75°	103.5	107.5	109.5	112.8	117.4	128.1	142.7	154.6	165.2	179.1	197.1
77.5°	78.8	81.1	83.2	86.7	89.6	94.5	102.7	113.5	123.4	131.5	143.8
80°	62.4	63.0	65.7	67.0	71.0	74.3	78.3	86.9	96.9	100.2	108.8
82.5°	47.0	47.6	49.8	51.1	52.9	55.7	60.8	63.0	70.9	75.2	80.7
85°	25.9	25.2	27.2	27.2	28.5	29.9	31.2	34.5	36.5	41.8	43.1
87.5°	15.6	15.9	16.2	14.8	13.1	13.0	12.9	12.9	13.5	14.2	15.6
90°	38.3	39.5	38.3	31.4	23.2	17.4	13.9	11.6	9.3	4.6	1.2
92.5°	127.6	151.0	148.9	115.9	79.0	52.7	41.8	33.9	28.8	20.4	14.2
95°	398.5	455.4	403.1	268.3	167.3	113.8	86.0	67.4	56.9	45.3	40.7
97.5°	815.5	777.4	585.5	361.5	220.7	153.6	122.0	100.6	84.8	72.5	66.2
100°	1085.0	917.7	631.9	381.0	239.3	177.7	145.2	122.0	103.4	92.9	89.4
102.5°	1185.4	922.4	614.3	382.0	256.0	199.1	166.6	142.4	123.8	113.4	110.8
105°	1169.8	860.8	579.7	388.0	284.6	230.0	197.5	171.9	154.5	146.4	141.7
107.5°	1067.8	794.8	562.5	404.0	313.9	260.9	228.2	202.8	186.8	178.9	175.2
110°	1003.7	763.2	558.8	417.0	333.4	282.3	248.6	224.2	209.1	202.1	197.5



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	959.1	742.8	559.7	431.0	352.0	302.7	268.1	244.6	230.5	222.6	217.9
115°	903.8	720.2	564.6	451.9	381.0	331.1	299.7	276.5	262.5	255.6	249.8
117.5°	868.9	709.3	572.9	474.2	407.7	361.5	329.0	306.7	294.4	287.4	282.8
120°	850.3	702.8	578.5	489.1	426.3	381.0	348.5	325.3	314.8	307.8	303.2
122.5°	834.5	699.1	585.0	502.1	444.0	401.5	368.0	344.8	333.4	326.4	322.7
125°	812.0	692.4	594.8	522.8	470.5	428.7	396.1	372.9	359.0	352.0	348.5
127.5°	791.1	688.4	604.8	542.0	495.1	454.4	421.0	398.7	383.4	373.6	368.9
130°	777.2	686.5	612.2	554.1	510.0	469.3	436.8	413.6	397.3	385.7	381.0
132.5°	766.0	685.6	619.6	566.2	523.0	484.2	451.7	427.5	410.3	397.8	392.2
135°	750.4	684.2	628.5	582.0	541.3	504.2	471.6	444.9	427.5	413.6	408.9
137.5°	739.5	684.0	636.4	594.1	556.2	519.5	489.3	462.8	444.2	430.3	424.7
140°	733.0	683.1	640.1	600.6	564.6	529.7	499.5	474.0	455.4	441.4	436.8
142.5°	726.5	683.1	642.9	606.2	571.1	537.2	508.8	484.2	465.6	452.6	448.9
145°	717.9	680.7	645.9	613.4	580.8	549.5	523.9	500.7	483.3	471.6	467.0
147.5°	709.1	676.6	646.8	617.3	588.7	559.2	536.5	517.2	501.1	490.0	486.5
150°	701.6	673.8	645.9	619.2	592.5	565.7	544.8	527.4	512.3	503.0	499.5
152.5°	695.1	669.1	644.0	620.1	596.2	572.2	553.2	536.7	523.4	514.2	512.5
155°	683.1	661.0	641.2	621.5	601.7	582.0	564.6	551.8	539.0	532.0	530.9
157.5°	671.7	652.6	635.9	621.5	605.7	589.0	574.3	564.1	553.0	547.4	546.2
160°	663.3	647.1	633.1	621.5	607.6	593.6	580.8	571.5	562.2	557.6	556.4
162.5°	655.9	642.4	630.3	620.6	608.5	596.4	586.4	578.0	570.6	566.0	566.7
165°	643.6	633.1	625.0	618.0	609.9	599.4	592.5	586.6	579.7	577.4	578.5
167.5°	631.5	625.0	619.6	616.4	609.6	602.0	597.6	593.4	589.0	586.9	588.3
170°	625.0	620.3	616.8	614.5	608.7	602.9	599.4	597.1	593.6	592.5	594.8
172.5°	618.5	614.8	613.1	611.7	607.8	603.8	601.3	599.9	596.4	597.1	598.5
175°	609.9	608.7	607.6	608.7	606.4	604.1	602.9	602.9	600.6	601.7	602.9
177.5°	605.0	604.1	605.0	606.9	605.0	604.1	604.1	604.1	602.2	603.1	605.0
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1920.7	1922.3	1932.9	1937.7	1947.3	1951.0	1955.2	1954.2	1954.2	1956.3	1971.2
5°	1924.8	1938.1	1958.0	1977.3	1995.8	2011.8	2022.4	2033.0	2037.0	2056.2	2073.5
7.5°	1917.9	1942.4	1975.3	2004.6	2039.8	2067.2	2090.1	2110.6	2124.7	2152.7	2181.4
10°	1908.9	1943.4	1980.6	2018.4	2066.8	2103.3	2140.5	2169.0	2178.3	2220.1	2244.0
12.5°	1890.9	1937.0	1984.3	2033.3	2080.6	2130.9	2171.8	2200.3	2233.0	2270.5	2314.6
15°	1863.8	1916.9	1978.6	2041.6	2109.3	2170.3	2214.1	2263.9	2299.7	2340.9	2379.3
17.5°	1824.9	1893.3	1971.7	2044.7	2123.0	2188.5	2248.8	2296.5	2321.7	2345.2	2350.9
20°	1794.1	1867.8	1960.0	2046.3	2124.6	2200.2	2259.9	2299.7	2306.4	2307.0	2271.9
22.5°	1760.7	1843.9	1940.4	2028.7	2122.4	2206.6	2253.0	2270.0	2243.7	2198.7	2130.7
25°	1699.2	1795.5	1907.6	2008.4	2110.6	2190.2	2206.2	2176.3	2084.1	1987.2	1864.5
27.5°	1632.6	1740.8	1861.0	1973.1	2082.0	2131.3	2097.0	1989.3	1823.2	1678.8	1503.8
30°	1583.8	1705.2	1823.3	1948.7	2049.6	2070.8	1991.9	1833.3	1639.5	1421.9	1247.4
32.5°	1528.1	1655.3	1785.1	1914.8	1999.2	1978.4	1848.0	1652.8	1425.6	1211.7	1046.8
35°	1448.4	1579.8	1719.8	1849.9	1903.6	1814.0	1619.0	1364.8	1132.6	932.9	819.4
37.5°	1356.5	1499.5	1645.1	1764.5	1760.7	1611.4	1345.7	1083.4	888.2	770.1	689.3
40°	1291.2	1435.8	1593.1	1693.9	1650.8	1456.4	1168.4	920.9	778.3	684.1	625.0
42.5°	1228.6	1373.7	1529.9	1610.1	1535.1	1296.1	1009.2	815.3	697.6	624.1	576.2
45°	1122.0	1275.3	1419.9	1464.4	1330.3	1066.9	816.1	675.5	597.2	542.7	509.6
47.5°	1017.8	1168.6	1300.6	1301.4	1120.1	865.2	688.5	584.6	517.7	475.6	451.5
50°	954.1	1097.4	1208.2	1191.0	985.3	769.7	615.7	526.2	470.4	437.9	412.7
52.5°	882.5	1021.5	1117.5	1068.4	871.2	677.3	550.4	475.2	429.0	400.8	378.2
55°	778.3	901.7	969.4	895.1	710.6	563.3	465.1	406.1	371.6	347.7	328.4
57.5°	676.0	777.8	820.4	733.8	585.3	467.1	393.5	349.1	314.9	297.8	287.8
60°	611.8	698.7	728.5	633.0	508.9	408.7	348.3	307.2	282.0	270.7	260.8
62.5°	548.6	619.6	631.9	544.3	443.6	357.8	305.9	271.1	254.4	243.6	234.2
65°	455.2	506.3	500.3	430.0	351.0	284.0	246.2	224.9	212.3	197.1	180.5
67.5°	374.7	405.9	387.1	334.4	267.9	220.7	196.0	179.9	164.3	149.8	146.0
70°	323.8	341.7	321.8	273.4	219.6	185.1	165.2	146.0	136.7	133.4	127.4
72.5°	275.0	281.2	259.7	218.2	178.7	153.3	133.9	123.1	118.1	115.3	111.5
75°	206.4	201.7	183.1	150.6	124.1	106.8	100.9	96.9	93.6	90.9	88.9
77.5°	144.9	138.1	121.6	100.3	86.4	78.2	74.6	72.5	70.9	69.5	67.5
80°	108.8	104.2	87.6	71.7	65.7	61.7	59.7	57.1	57.1	55.7	53.7
82.5°	79.6	74.4	60.0	52.5	49.2	46.8	45.4	43.8	43.3	43.5	42.1
85°	41.8	33.8	29.9	28.5	26.5	25.2	25.9	24.5	24.5	24.5	23.9
87.5°	13.7	11.9	11.9	11.8	13.0	14.2	15.3	16.7	17.5	16.7	17.0
90°	4.6	9.3	11.6	13.9	17.4	23.2	31.4	38.3	39.5	38.3	37.2
92.5°	20.4	28.8	33.9	41.8	52.7	79.0	115.9	148.9	151.0	127.6	101.3
95°	45.3	56.9	67.4	86.0	113.8	167.3	268.3	403.1	455.4	398.5	304.4
97.5°	72.5	84.8	100.6	122.0	153.6	220.7	361.5	585.5	777.4	815.5	710.2
100°	92.9	103.4	122.0	145.2	177.7	239.3	381.0	631.9	917.7	1085.0	1060.6
102.5°	113.4	123.8	142.4	166.6	199.1	256.0	382.0	614.3	922.4	1185.4	1290.2
105°	146.4	154.5	171.9	197.5	230.0	284.6	388.0	579.7	860.8	1169.8	1411.4
107.5°	178.9	186.8	202.8	228.2	260.9	313.9	404.0	562.5	794.8	1067.8	1324.1
110°	202.1	209.1	224.2	248.6	282.3	333.4	417.0	558.8	763.2	1003.7	1248.8



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	222.6	230.5	244.6	268.1	302.7	352.0	431.0	559.7	742.8	959.1	1180.0
115°	255.6	262.5	276.5	299.7	331.1	381.0	451.9	564.6	720.2	903.8	1095.5
117.5°	287.4	294.4	306.7	329.0	361.5	407.7	474.2	572.9	709.3	868.9	1031.8
120°	307.8	314.8	325.3	348.5	381.0	426.3	489.1	578.5	702.8	850.3	1000.2
122.5°	326.4	333.4	344.8	368.0	401.5	444.0	502.1	585.0	699.1	834.5	975.1
125°	352.0	359.0	372.9	396.1	428.7	470.5	522.8	594.8	692.4	812.0	938.6
127.5°	373.6	383.4	398.7	421.0	454.4	495.1	542.0	604.8	688.4	791.1	902.6
130°	385.7	397.3	413.6	436.8	469.3	510.0	554.1	612.2	686.5	777.2	879.4
132.5°	397.8	410.3	427.5	451.7	484.2	523.0	566.2	619.6	685.6	766.0	857.1
135°	413.6	427.5	444.9	471.6	504.2	541.3	582.0	628.5	684.2	750.4	825.9
137.5°	430.3	444.2	462.8	489.3	519.5	556.2	594.1	636.4	684.0	739.5	801.1
140°	441.4	455.4	474.0	499.5	529.7	564.6	600.6	640.1	683.1	733.0	785.3
142.5°	452.6	465.6	484.2	508.8	537.2	571.1	606.2	642.9	683.1	726.5	772.3
145°	471.6	483.3	500.7	523.9	549.5	580.8	613.4	645.9	680.7	717.9	753.9
147.5°	490.0	501.1	517.2	536.5	559.2	588.7	617.3	646.8	676.6	709.1	739.8
150°	503.0	512.3	527.4	544.8	565.7	592.5	619.2	645.9	673.8	701.6	729.5
152.5°	514.2	523.4	536.7	553.2	572.2	596.2	620.1	644.0	669.1	695.1	719.3
155°	532.0	539.0	551.8	564.6	582.0	601.7	621.5	641.2	661.0	683.1	705.1
157.5°	547.4	553.0	564.1	574.3	589.0	605.7	621.5	635.9	652.6	671.7	688.6
160°	557.6	562.2	571.5	580.8	593.6	607.6	621.5	633.1	647.1	663.3	678.4
162.5°	566.0	570.6	578.0	586.4	596.4	608.5	620.6	630.3	642.4	655.9	668.2
165°	577.4	579.7	586.6	592.5	599.4	609.9	618.0	625.0	633.1	643.6	652.9
167.5°	586.9	589.0	593.4	597.6	602.0	609.6	616.4	619.6	625.0	631.5	638.2
170°	592.5	593.6	597.1	599.4	602.9	608.7	614.5	616.8	620.3	625.0	630.8
172.5°	597.1	596.4	599.9	601.3	603.8	607.8	611.7	613.1	614.8	618.5	622.4
175°	601.7	600.6	602.9	602.9	604.1	606.4	608.7	607.6	608.7	609.9	613.4
177.5°	603.1	602.2	604.1	604.1	604.1	605.0	606.9	605.0	604.1	605.0	606.9
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1976.5	1983.4	1986.5	1986.5	1990.3	1988.7	1987.1
5°	2090.1	2102.7	2105.3	2117.3	2125.9	2123.2	2124.6
7.5°	2203.0	2223.3	2243.3	2252.5	2253.9	2259.2	2261.2
10°	2272.5	2289.1	2320.3	2315.6	2338.9	2352.1	2330.2
12.5°	2339.4	2361.8	2383.5	2389.4	2402.6	2406.8	2398.2
15°	2399.9	2411.9	2413.2	2409.9	2413.8	2410.5	2397.9
17.5°	2343.4	2324.0	2284.7	2266.1	2251.4	2229.7	2220.9
20°	2250.0	2192.9	2126.5	2100.0	2068.8	2007.8	2022.4
22.5°	2048.3	1983.2	1916.9	1839.4	1802.4	1744.5	1741.0
25°	1734.4	1622.3	1498.9	1412.6	1362.2	1304.5	1279.2
27.5°	1348.5	1207.3	1106.2	1055.0	1008.4	962.6	960.8
30°	1094.8	988.6	910.3	866.5	838.0	818.8	822.8
32.5°	922.8	850.1	797.3	760.9	739.8	725.3	725.1
35°	754.4	704.6	670.8	655.5	640.3	629.7	630.3
37.5°	645.6	615.7	596.9	580.0	570.5	565.3	562.4
40°	589.9	565.3	550.7	540.8	532.8	525.5	524.2
42.5°	545.8	525.5	510.9	503.1	495.6	490.5	489.1
45°	484.4	467.8	454.5	445.9	442.6	437.9	437.9
47.5°	430.9	414.6	404.2	398.8	393.1	390.0	389.9
50°	394.8	382.2	372.9	369.6	364.9	362.9	362.3
52.5°	362.4	353.0	346.4	344.1	342.1	339.6	340.0
55°	318.5	313.2	310.5	308.5	305.2	301.2	303.9
57.5°	281.5	276.9	269.8	263.5	260.5	257.7	258.8
60°	255.5	246.2	236.9	229.6	227.6	221.6	221.6
62.5°	222.5	209.5	198.1	194.0	192.0	189.2	188.7
65°	171.2	165.9	163.2	160.6	159.2	159.2	157.9
67.5°	141.9	139.7	136.8	136.2	134.8	134.4	134.0
70°	125.4	122.7	121.4	120.8	119.4	120.1	118.1
72.5°	109.5	107.4	107.1	105.4	104.6	104.7	103.2
75°	86.3	86.3	85.6	84.9	83.6	82.9	83.6
77.5°	66.4	66.5	65.3	65.2	65.0	65.2	64.5
80°	53.1	53.7	53.1	52.4	51.8	52.4	51.8
82.5°	41.9	41.0	40.9	40.7	40.6	40.2	40.1
85°	23.9	24.5	23.9	23.2	23.2	23.2	23.9
87.5°	16.0	16.5	16.7	16.7	16.7	16.7	16.2
90°	34.9	37.2	38.3	38.3	38.3	38.3	38.3
92.5°	86.9	77.1	69.9	69.0	65.3	66.2	64.4
95°	233.5	184.7	159.1	144.0	134.8	131.3	132.4
97.5°	581.1	455.4	371.5	316.0	287.4	270.4	260.7
100°	916.6	757.4	616.8	520.4	470.5	436.8	415.9
102.5°	1257.6	1141.2	992.3	887.5	802.3	760.2	731.9
105°	1542.7	1557.8	1519.5	1447.4	1375.4	1325.5	1309.2
107.5°	1521.8	1642.6	1698.8	1707.9	1703.9	1693.9	1672.3
110°	1456.7	1605.4	1700.7	1750.6	1772.7	1783.2	1782.0



TEST NUMBER: P331731

CATALOG NUMBER: SA2XXRDIP-C865D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1379.6	1538.5	1647.7	1717.2	1754.1	1773.9	1780.1
115°	1274.4	1426.5	1546.2	1628.7	1682.1	1712.3	1722.8
117.5°	1188.9	1326.9	1439.1	1523.2	1579.6	1611.5	1620.3
120°	1144.2	1267.4	1373.1	1454.4	1509.0	1542.7	1554.3
122.5°	1107.1	1223.7	1319.2	1392.1	1445.8	1475.8	1485.5
125°	1058.3	1160.5	1247.6	1315.0	1359.2	1388.2	1397.5
127.5°	1010.9	1107.3	1187.7	1246.5	1287.8	1312.9	1320.4
130°	979.3	1071.1	1147.7	1204.7	1244.2	1267.4	1276.7
132.5°	949.6	1033.9	1105.9	1161.9	1201.4	1222.8	1231.1
135°	902.6	979.3	1044.3	1094.3	1132.6	1153.5	1158.2
137.5°	865.2	926.1	982.8	1028.3	1061.3	1079.7	1086.6
140°	841.1	894.5	945.6	982.8	1013.0	1030.4	1037.4
142.5°	819.7	865.7	908.4	943.7	971.2	986.7	988.1
145°	792.3	828.3	862.0	889.8	909.6	921.2	924.7
147.5°	770.0	798.1	822.7	845.7	861.5	869.4	871.5
150°	755.1	779.5	800.4	817.8	831.8	838.7	839.9
152.5°	743.0	763.7	781.8	795.5	807.6	812.7	812.9
155°	723.7	741.1	753.9	766.7	774.8	779.5	777.2
157.5°	704.2	718.8	728.8	737.9	744.6	746.7	746.7
160°	691.2	704.0	712.1	720.2	726.0	727.2	727.2
162.5°	679.1	690.0	696.3	704.4	708.4	709.5	708.6
165°	661.0	669.1	673.8	678.4	683.1	683.1	681.9
167.5°	644.5	650.1	654.3	656.3	658.9	658.7	657.3
170°	634.3	638.9	641.2	642.4	645.9	644.7	642.4
172.5°	625.0	628.7	630.1	631.3	632.9	631.7	630.3
175°	614.5	615.7	616.8	616.8	618.0	616.8	614.5
177.5°	606.9	607.8	607.8	607.8	607.8	606.9	605.0
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1

(END OF REPORT)