

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: P331393-840

Luminaire Tested: **SA2XXDIP-C865D725U840-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331393-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C865D725U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

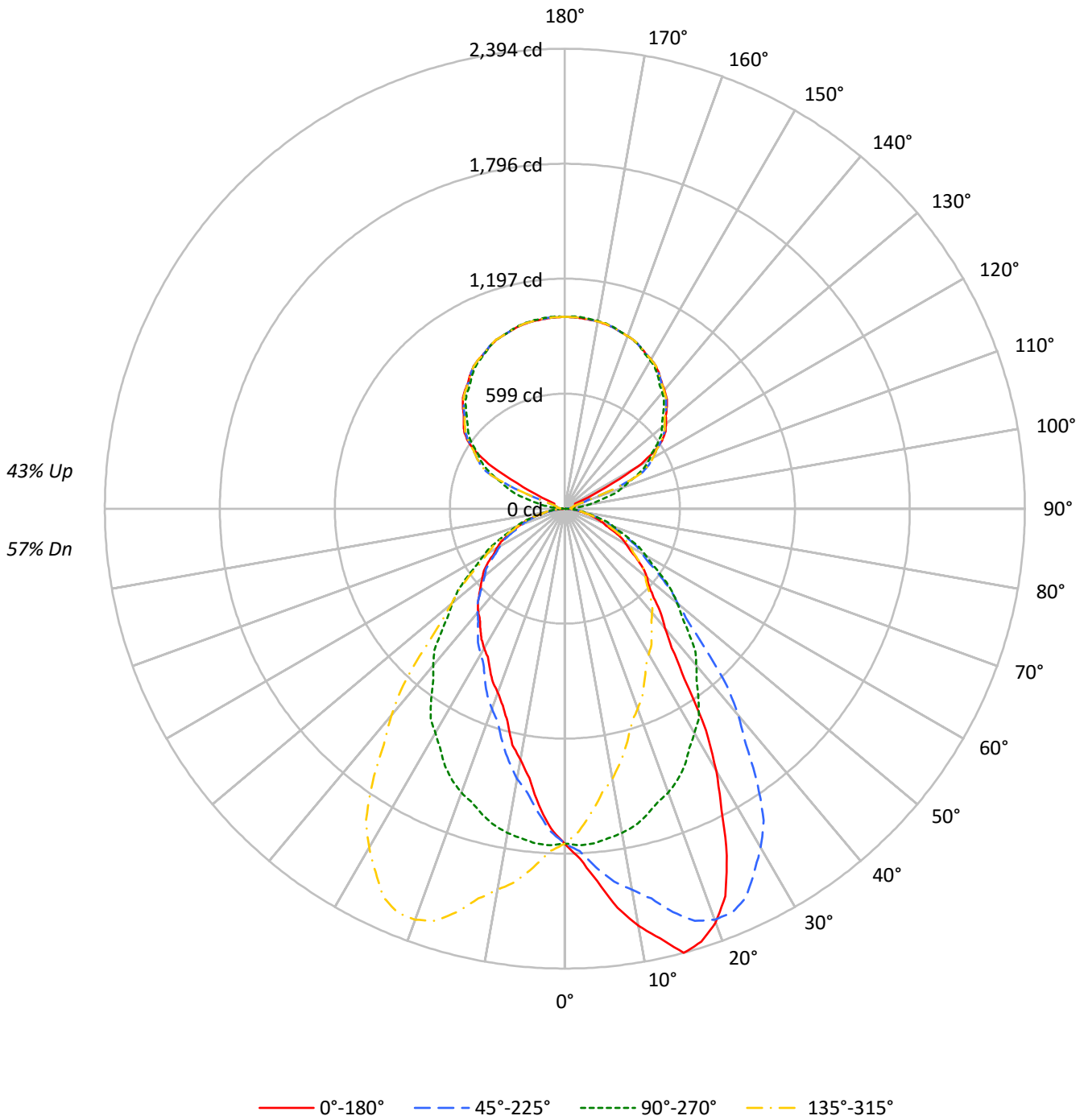
Lumens per Lamp: N/A
Luminaire Lumens: 6774.8 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 54.4
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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CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR	0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57																											
	1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	56	55	54	49																											
	2	91	84	78	73	85	79	74	69	68	64	61	59	56	53	50	48	46	42																											
	3	84	75	67	62	78	70	63	58	61	56	52	52	49	46	45	42	40	36																											
	4	77	66	59	53	71	62	55	50	54	49	45	47	43	40	40	37	35	31																											
	5	71	59	52	46	66	56	49	43	49	43	39	43	38	35	37	33	31	28																											
	6	65	54	46	40	61	50	43	38	44	39	34	39	34	31	33	30	27	25																											
	7	61	49	41	35	56	46	39	34	40	35	31	35	31	28	31	27	25	22																											
	8	56	44	37	31	53	42	35	30	37	31	27	33	28	25	28	25	22	20																											
	9	53	41	33	28	49	38	32	27	34	29	25	30	26	22	26	23	20	18																											
	10	49	37	30	25	46	35	29	24	32	26	22	28	24	20	24	21	18	17																											

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28150	28150	28150	28150
5°	31561	28336	25109	28336
10°	36166	28103	21730	28103
15°	40010	27587	19198	27587
20°	39400	27034	17500	27034
25°	35527	26298	16425	26298
30°	29358	25124	15642	25124
35°	21396	23893	15084	23893
40°	17089	22443	14773	22443
45°	14933	20763	14351	20763
50°	14039	19138	14071	19138
55°	12940	17486	13695	17486
60°	11858	15733	13114	15733
65°	10804	14155	12542	14155
70°	9805	12623	11703	12623
75°	8696	10911	10368	10911
80°	7476	9028	8350	9028
85°	6706	6706	4965	6706



TEST NUMBER: P331393-840

CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	2.5
10°-20°	482.7	7.1
20°-30°	700.6	10.3
30°-40°	739.3	10.9
40°-50°	654.6	9.7
50°-60°	522.4	7.7
60°-70°	355.1	5.2
70°-80°	182.0	2.7
80°-90°	46.3	0.7
90°-100°	33.3	0.5
100°-110°	122.1	1.8
110°-120°	326.4	4.8
120°-130°	538.9	8.0
130°-140°	573.1	8.5
140°-150°	532.7	7.9
150°-160°	428.3	6.3
160°-170°	276.0	4.1
170°-180°	95.0	1.4
0°-30°	1349.4	19.9
0°-40°	2088.7	30.8
0°-60°	3265.7	48.2
0°-90°	3849.1	56.8
90°-120°	481.9	7.1
90°-150°	2126.5	31.4
90°-180°	2926.0	43.2
0°-180°	6774.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1744	1744	1744	1744	1744	
5°	1947	1748	1549	1748	1947	194
15°	2394	1650	1148	1650	2394	660
25°	1994	1476	922	1476	1994	901
35°	1086	1212	765	1212	1086	706
45°	654	909	628	909	654	514
55°	460	621	486	621	460	412
65°	283	370	328	370	283	281
75°	139	175	166	175	139	149
85°	36	36	27	36	36	40
90°	20	1	20	1	20	10
95°	31	47	31	47	31	29
105°	55	220	55	220	55	57
115°	59	415	59	415	59	148
125°	618	587	618	587	618	534
135°	750	727	750	727	750	578
145°	856	843	856	843	856	535
155°	929	928	929	928	929	429
165°	976	978	976	978	976	276
175°	995	1000	995	1000	995	95
180°	998	998	998	998	998	



TEST NUMBER: P331393-840

CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1824.0	1824.5	1825.6	1817.1	1815.9	1815.9	1808.5	1802.0	1794.5	1784.3	1785.4
5°	1947.3	1954.7	1957.3	1949.3	1937.2	1935.9	1924.5	1905.7	1888.3	1874.2	1864.2
7.5°	2094.5	2097.4	2090.8	2080.2	2071.2	2055.2	2034.0	2013.3	1984.2	1957.5	1937.6
10°	2205.9	2210.0	2198.6	2183.1	2170.4	2151.6	2120.8	2089.3	2051.1	2014.3	1984.8
12.5°	2290.7	2300.6	2285.9	2283.9	2262.1	2236.3	2199.7	2183.7	2130.0	2078.6	2047.0
15°	2393.6	2392.9	2394.3	2381.5	2365.4	2361.4	2322.6	2280.4	2204.6	2174.4	2122.2
17.5°	2363.8	2374.0	2378.7	2378.5	2378.1	2375.6	2363.2	2336.5	2298.6	2249.7	2189.3
20°	2293.1	2306.4	2308.5	2323.9	2332.6	2344.0	2348.6	2341.3	2317.8	2276.9	2224.7
22.5°	2183.7	2187.5	2193.7	2217.8	2236.6	2265.2	2280.1	2304.8	2295.8	2275.9	2232.2
25°	1994.2	1987.5	2010.9	2023.0	2066.6	2112.1	2145.0	2181.1	2213.3	2232.7	2220.0
27.5°	1766.7	1756.6	1791.7	1823.7	1859.1	1908.4	1959.6	2020.0	2070.3	2133.1	2154.7
30°	1574.7	1580.7	1614.3	1648.4	1702.0	1771.7	1829.4	1895.7	1967.4	2037.7	2086.7
32.5°	1367.8	1391.0	1412.2	1464.5	1511.8	1589.4	1673.9	1756.9	1846.2	1926.2	2002.0
35°	1085.5	1112.4	1141.9	1180.0	1246.4	1323.4	1405.8	1517.7	1639.7	1749.0	1838.8
37.5°	913.7	909.5	926.3	953.9	1007.6	1069.9	1164.8	1275.4	1418.9	1547.2	1673.9
40°	810.8	808.1	820.2	845.7	886.6	932.1	1015.2	1112.4	1245.7	1402.5	1553.3
42.5°	740.0	741.6	748.3	766.3	794.4	831.8	894.0	976.7	1098.8	1246.5	1408.6
45°	654.0	658.7	666.1	674.8	690.8	721.6	756.5	815.5	912.0	1035.3	1194.8
47.5°	592.1	592.2	599.8	607.3	616.9	634.3	662.7	699.7	767.8	868.2	1005.3
50°	558.9	554.2	559.6	565.5	575.6	587.6	606.4	641.3	686.8	767.9	882.5
52.5°	518.2	518.3	523.1	525.3	534.3	546.4	563.5	587.6	628.9	692.4	786.6
55°	459.7	463.0	465.7	469.7	477.8	486.5	499.9	515.9	548.2	595.7	665.4
57.5°	404.8	405.8	408.5	416.2	421.2	429.3	442.0	456.6	477.5	512.7	565.1
60°	367.2	367.2	372.5	375.9	382.6	390.6	400.7	414.8	433.5	462.3	504.6
62.5°	333.0	332.3	334.5	340.0	345.1	352.6	362.6	374.6	392.2	417.9	452.6
65°	282.8	281.4	285.5	286.8	292.2	299.5	307.6	320.3	334.4	353.1	384.0
67.5°	234.5	236.1	238.3	240.9	243.8	251.6	256.9	265.9	277.8	293.4	314.3
70°	207.7	207.7	207.7	209.7	213.8	217.8	223.2	230.6	241.9	255.3	274.1
72.5°	177.7	179.9	182.0	180.8	185.9	188.3	194.7	198.8	209.7	218.3	234.9
75°	139.4	139.4	139.4	142.7	144.7	146.7	150.8	154.8	160.2	170.9	179.6
77.5°	104.0	103.7	104.4	105.2	107.3	109.8	111.0	114.6	119.6	124.5	131.9
80°	80.4	81.8	82.4	83.7	83.7	85.1	85.7	90.5	93.8	97.1	101.9
82.5°	62.2	62.4	62.6	62.8	63.4	64.2	65.9	67.5	68.6	71.4	75.0
85°	36.2	35.5	35.5	36.9	36.2	36.2	37.6	38.9	38.9	39.5	41.5
87.5°	17.9	17.8	18.3	17.7	17.6	18.0	17.9	17.2	17.6	17.9	18.2
90°	19.5	19.2	18.9	18.6	18.2	17.7	16.9	16.1	15.2	14.4	13.1
92.5°	19.5	19.3	19.1	18.9	18.8	18.4	18.0	17.6	17.2	16.8	16.2
95°	31.1	31.2	31.4	31.5	31.7	31.4	30.6	29.8	29.0	28.2	27.1
97.5°	41.5	41.3	41.1	40.9	40.7	40.3	39.6	39.0	38.4	37.7	35.1
100°	48.4	48.1	47.8	47.5	47.2	46.4	45.0	43.7	42.4	41.2	38.5
102.5°	51.9	51.4	51.0	50.5	50.1	49.0	47.4	45.6	44.0	42.3	65.1
105°	54.9	54.2	53.6	53.0	52.3	51.1	49.4	47.6	45.8	44.0	87.9
107.5°	56.5	55.8	55.2	54.5	53.9	54.5	56.2	58.1	59.9	61.7	114.2
110°	57.1	56.5	55.7	55.1	54.5	62.2	78.3	94.3	110.4	126.4	172.8



TEST NUMBER: P331393-840

CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	57.7	57.2	56.7	56.1	55.5	84.6	143.2	201.8	260.3	318.8	330.3
115°	59.3	70.8	82.3	93.9	105.4	148.5	222.8	297.1	371.4	445.8	441.7
117.5°	241.9	279.8	317.8	355.8	393.7	421.7	439.7	457.8	475.7	493.7	490.9
120°	440.7	462.3	484.0	505.6	527.4	537.2	535.3	533.4	531.4	529.5	526.6
122.5°	549.9	554.1	558.3	562.5	566.7	568.3	567.0	565.9	564.7	563.6	560.5
125°	617.6	617.1	616.7	616.2	615.7	614.9	613.8	612.7	611.6	610.5	607.3
127.5°	660.5	660.4	660.2	660.1	660.0	659.1	657.5	655.9	654.3	652.6	650.4
130°	687.0	687.1	687.3	687.5	687.6	686.8	685.1	683.3	681.6	679.7	678.0
132.5°	713.0	713.2	713.4	713.5	713.7	713.0	711.4	709.9	708.4	706.9	705.2
135°	750.5	750.8	751.2	751.5	751.8	751.2	749.6	748.0	746.4	744.8	743.4
137.5°	784.8	785.4	785.9	786.5	787.0	786.5	784.9	783.4	781.7	780.2	778.5
140°	806.2	807.0	807.8	808.6	809.4	809.1	807.6	806.2	804.8	803.3	801.5
142.5°	827.0	827.8	828.6	829.4	830.2	829.9	828.6	827.3	826.0	824.7	822.6
145°	856.1	856.9	857.7	858.5	859.2	859.1	858.0	856.9	855.8	854.5	851.8
147.5°	881.6	882.3	882.9	883.6	884.3	884.2	883.4	882.5	881.7	880.9	878.2
150°	897.2	898.0	898.8	899.6	900.4	900.3	899.4	898.4	897.5	896.5	893.9
152.5°	910.5	911.6	912.6	913.7	914.7	914.8	913.8	912.8	911.9	910.9	908.5
155°	929.0	930.3	931.6	932.8	934.1	934.3	933.3	932.4	931.4	930.4	928.5
157.5°	945.9	947.2	948.4	949.7	950.9	951.0	949.9	948.8	947.8	946.6	945.2
160°	955.7	956.8	958.0	959.1	960.2	960.3	959.4	958.4	957.5	956.4	955.4
162.5°	963.8	965.2	966.5	968.0	969.4	969.5	968.4	967.2	966.2	965.1	964.3
165°	975.9	977.0	978.2	979.4	980.5	980.5	979.4	978.2	977.0	975.9	975.4
167.5°	983.6	985.0	986.5	988.0	989.4	989.6	988.5	987.3	986.1	985.0	984.6
170°	988.3	989.7	991.1	992.6	994.0	994.2	993.0	991.9	990.8	989.7	989.4
172.5°	991.7	993.1	994.6	996.0	997.4	997.6	996.5	995.4	994.3	993.1	992.8
175°	994.7	996.3	997.9	999.6	1001.2	1001.4	1000.3	999.2	998.0	996.9	996.5
177.5°	996.6	997.7	999.0	1000.1	1001.3	1001.4	1000.5	999.6	998.7	997.7	997.6
180°	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4



TEST NUMBER: P331393-840

CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1789.2	1784.8	1782.2	1772.5	1763.9	1755.3	1752.7	1753.7	1742.0	1730.7	1725.9
5°	1858.9	1845.4	1832.7	1814.6	1793.2	1769.7	1757.7	1748.3	1724.8	1699.4	1684.7
7.5°	1921.3	1902.1	1877.6	1843.6	1812.3	1775.4	1752.0	1731.2	1697.0	1661.0	1639.0
10°	1959.3	1933.2	1901.7	1860.2	1822.0	1777.1	1745.6	1714.1	1673.9	1631.0	1604.2
12.5°	1992.1	1956.8	1925.8	1872.5	1827.4	1771.2	1733.8	1689.4	1647.1	1596.2	1569.9
15°	2069.9	2004.9	1945.9	1885.6	1830.0	1751.6	1710.1	1650.4	1594.8	1531.9	1501.7
17.5°	2130.1	2057.1	1964.2	1887.5	1822.6	1735.9	1674.9	1603.4	1537.6	1465.6	1424.6
20°	2164.4	2080.6	1980.7	1889.7	1811.9	1712.7	1646.4	1573.4	1496.3	1415.2	1371.0
22.5°	2184.7	2096.7	1997.9	1881.6	1790.5	1693.9	1610.5	1530.5	1452.4	1364.8	1318.5
25°	2191.2	2110.8	2006.3	1874.9	1763.7	1654.5	1554.0	1476.2	1381.7	1300.0	1232.3
27.5°	2159.3	2101.6	2001.1	1862.3	1732.7	1605.0	1493.0	1404.9	1305.3	1216.5	1148.4
30°	2120.2	2086.7	1988.8	1849.5	1708.1	1570.7	1447.4	1347.6	1248.4	1158.6	1088.9
32.5°	2059.6	2052.3	1966.3	1831.2	1681.8	1527.3	1399.7	1298.8	1188.9	1100.7	1034.2
35°	1940.6	1972.8	1918.4	1790.5	1632.3	1465.5	1327.5	1212.2	1098.3	1013.8	951.5
37.5°	1781.1	1861.0	1846.7	1730.8	1565.6	1398.3	1245.9	1125.4	1016.8	931.6	870.4
40°	1671.2	1773.0	1787.8	1685.3	1518.4	1346.3	1184.8	1064.8	958.9	881.2	819.5
42.5°	1553.3	1672.2	1712.7	1630.6	1466.9	1291.5	1130.0	1005.8	901.0	825.5	770.7
45°	1355.6	1513.1	1586.1	1539.2	1381.1	1201.4	1035.3	909.3	814.2	743.2	700.9
47.5°	1170.7	1342.8	1441.1	1424.5	1285.5	1107.6	943.3	822.4	729.8	673.2	635.4
50°	1040.0	1216.9	1335.4	1340.9	1216.9	1040.7	875.9	761.9	676.8	623.9	593.0
52.5°	926.3	1095.2	1224.6	1252.9	1140.2	971.0	815.3	701.9	626.9	578.2	550.7
55°	778.0	920.7	1064.1	1116.4	1025.9	865.1	721.0	621.2	550.8	517.4	493.2
57.5°	646.8	765.8	898.2	955.9	900.2	762.5	627.4	540.8	483.6	454.3	435.9
60°	577.6	671.5	789.4	858.4	810.1	687.5	569.6	487.2	440.3	414.1	396.7
62.5°	513.3	596.4	696.1	759.2	733.0	617.3	511.7	438.9	398.4	374.0	361.3
65°	423.5	489.2	566.2	624.5	607.1	519.3	432.9	370.5	338.4	318.9	308.9
67.5°	348.7	396.2	449.6	500.7	486.7	424.4	355.0	306.5	282.6	265.8	259.7
70°	301.5	337.7	385.3	426.2	414.8	363.9	308.9	267.4	246.6	232.6	226.5
72.5°	256.5	286.3	322.6	356.0	348.3	306.0	260.1	228.7	212.8	199.9	194.9
75°	193.7	216.4	238.5	260.6	258.6	225.8	199.0	174.9	162.2	152.1	150.1
77.5°	143.0	155.7	170.8	183.9	180.3	161.5	140.5	126.6	117.2	110.6	109.5
80°	109.3	116.6	127.3	136.7	132.0	124.0	107.2	97.1	90.5	83.7	81.1
82.5°	79.2	86.5	93.0	98.1	94.5	86.9	76.6	69.8	65.8	61.2	60.2
85°	41.5	45.5	48.3	49.6	48.3	43.5	38.9	36.2	32.8	30.8	30.2
87.5°	18.5	18.2	18.0	18.7	16.8	16.4	13.9	11.9	11.7	11.6	10.8
90°	11.9	10.6	9.3	7.8	6.1	4.2	2.5	0.7	2.5	4.2	6.1
92.5°	15.5	14.8	14.2	13.9	14.1	14.2	14.4	14.5	14.4	14.2	14.1
95°	26.0	24.8	23.6	25.8	31.1	36.4	41.7	47.0	41.7	36.4	31.1
97.5°	32.5	29.9	27.3	33.4	48.4	63.3	78.3	93.2	78.3	63.3	48.4
100°	35.7	33.0	30.3	39.9	61.9	83.9	105.8	127.8	105.8	83.9	61.9
102.5°	88.0	110.8	133.6	147.3	152.1	156.7	161.4	166.0	161.4	156.7	152.1
105°	131.7	175.5	219.3	238.8	234.1	229.2	224.4	219.6	224.4	229.2	234.1
107.5°	166.8	219.3	272.0	296.3	292.4	288.5	284.6	280.7	284.6	288.5	292.4
110°	219.2	265.6	311.9	333.5	330.1	326.8	323.4	320.0	323.4	326.8	330.1



TEST NUMBER: P331393-840

CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	341.7	353.3	364.7	368.9	366.0	362.9	360.0	357.0	360.0	362.9	366.0
115°	437.7	433.6	429.7	426.3	423.5	420.8	418.1	415.4	418.1	420.8	423.5
117.5°	488.2	485.4	482.6	479.7	476.7	473.6	470.6	467.6	470.6	473.6	476.7
120°	523.7	520.9	518.0	515.3	512.9	510.5	508.1	505.6	508.1	510.5	512.9
122.5°	557.3	554.2	551.0	548.2	545.6	543.1	540.6	538.1	540.6	543.1	545.6
125°	604.3	601.3	598.2	595.6	593.6	591.5	589.4	587.3	589.4	591.5	593.6
127.5°	648.0	645.8	643.5	641.2	638.8	636.6	634.3	632.0	634.3	636.6	638.8
130°	676.2	674.5	672.7	670.6	667.9	665.4	662.9	660.2	662.9	665.4	667.9
132.5°	703.4	701.7	699.8	697.9	695.7	693.6	691.4	689.1	691.4	693.6	695.7
135°	741.8	740.4	739.0	737.0	734.5	731.8	729.3	726.7	729.3	731.8	734.5
137.5°	776.9	775.3	773.7	771.9	770.1	768.3	766.5	764.8	766.5	768.3	770.1
140°	799.8	798.0	796.3	794.7	793.5	792.1	790.8	789.6	790.8	792.1	793.5
142.5°	820.6	818.6	816.6	815.0	813.9	812.7	811.5	810.4	811.5	812.7	813.9
145°	849.1	846.4	843.6	842.4	842.5	842.7	842.8	843.0	842.8	842.7	842.5
147.5°	875.5	872.8	870.1	869.1	869.7	870.3	870.9	871.5	870.9	870.3	869.7
150°	891.3	888.8	886.3	885.4	886.7	887.8	888.9	890.0	888.9	887.8	886.7
152.5°	906.1	903.6	901.2	900.6	901.8	903.1	904.3	905.5	904.3	903.1	901.8
155°	926.6	924.6	922.7	922.5	923.9	925.3	926.9	928.3	926.9	925.3	923.9
157.5°	943.9	942.6	941.2	941.2	942.4	943.6	944.8	946.0	944.8	943.6	942.4
160°	954.5	953.5	952.6	952.6	953.5	954.5	955.4	956.4	955.4	954.5	953.5
162.5°	963.4	962.6	961.8	961.8	962.8	963.8	964.7	965.7	964.7	963.8	962.8
165°	975.0	974.5	974.0	974.2	975.2	976.2	977.1	978.2	977.1	976.2	975.2
167.5°	984.1	983.7	983.2	983.5	984.5	985.4	986.4	987.3	986.4	985.4	984.5
170°	989.1	988.8	988.4	988.8	989.7	990.7	991.6	992.6	991.6	990.7	989.7
172.5°	992.5	992.2	991.9	992.2	993.1	994.1	995.0	996.0	995.0	994.1	993.1
175°	996.2	995.9	995.6	996.0	997.1	998.3	999.4	1000.5	999.4	998.3	997.1
177.5°	997.5	997.3	997.2	997.6	998.6	999.5	1000.4	1001.3	1000.4	999.5	998.6
180°	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4



TEST NUMBER: P331393-840

CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1720.5	1717.3	1706.1	1700.2	1690.5	1681.4	1675.5	1678.2	1680.3	1679.2	1677.7
5°	1671.2	1658.5	1639.0	1622.2	1610.2	1588.1	1578.7	1574.1	1570.0	1565.3	1560.6
7.5°	1612.6	1592.5	1564.5	1540.7	1518.1	1490.7	1475.0	1465.6	1456.0	1445.4	1436.0
10°	1570.7	1542.6	1513.1	1479.6	1452.8	1427.9	1405.8	1391.1	1377.8	1364.9	1355.6
12.5°	1526.7	1494.3	1457.8	1412.0	1382.5	1347.1	1343.6	1317.7	1296.8	1288.9	1277.9
15°	1456.8	1411.2	1364.9	1310.7	1287.3	1255.1	1235.0	1214.9	1196.8	1184.1	1180.7
17.5°	1377.4	1318.4	1272.3	1233.3	1194.9	1162.0	1143.5	1127.4	1112.5	1095.5	1093.2
20°	1316.8	1265.8	1215.6	1181.3	1141.9	1108.3	1085.5	1069.4	1056.7	1046.7	1037.9
22.5°	1259.4	1203.7	1157.6	1120.2	1081.3	1054.2	1036.2	1020.7	1010.1	999.0	990.8
25°	1167.3	1123.8	1073.5	1031.3	999.1	981.7	966.9	953.5	946.8	939.5	930.1
27.5°	1086.7	1038.3	991.4	958.7	930.4	914.9	904.5	895.3	889.1	884.7	879.4
30°	1030.0	981.0	944.1	912.0	888.6	873.1	866.5	861.1	853.7	851.0	848.4
32.5°	975.2	931.2	899.7	871.8	849.4	839.4	833.2	828.4	822.6	819.9	814.6
35°	898.0	861.1	830.2	814.9	796.8	788.0	783.4	776.7	771.2	768.6	767.9
37.5°	825.2	793.1	772.8	753.1	745.4	740.0	733.7	729.0	727.4	727.0	726.4
40°	778.0	751.8	733.8	717.7	714.3	706.3	700.9	696.9	696.9	697.6	696.9
42.5°	735.1	711.7	695.7	681.8	677.8	673.1	667.7	667.4	668.5	670.8	668.5
45°	670.0	653.4	642.0	635.2	627.8	623.2	622.5	624.5	625.2	625.9	627.8
47.5°	610.4	599.2	588.9	581.5	578.2	577.4	576.6	580.2	583.4	584.6	587.6
50°	574.9	562.2	553.5	548.8	546.1	544.8	546.1	550.2	552.8	556.1	558.2
52.5°	535.2	526.2	520.3	516.6	515.5	516.3	516.6	521.2	525.5	526.6	527.7
55°	480.5	473.7	472.4	466.4	469.1	468.4	471.7	474.4	478.5	482.5	483.1
57.5°	425.8	420.4	416.8	417.4	418.2	421.1	423.9	428.6	432.9	437.2	437.6
60°	389.3	386.7	384.7	384.7	386.0	390.0	393.3	398.0	400.7	403.4	405.4
62.5°	356.1	353.5	351.4	352.4	356.0	358.4	362.2	364.8	367.5	370.1	371.1
65°	303.6	302.3	304.3	305.6	306.2	309.6	314.3	316.3	318.9	320.3	325.0
67.5°	255.2	255.4	255.2	257.0	260.9	261.8	266.2	270.8	271.4	274.0	277.0
70°	222.5	223.8	225.2	226.5	229.8	231.2	234.5	236.5	239.2	241.3	243.3
72.5°	192.5	192.7	194.1	193.8	196.6	199.5	202.4	204.4	207.0	209.6	211.6
75°	148.0	148.0	149.5	150.1	153.5	156.8	156.1	157.4	160.2	162.8	164.2
77.5°	108.2	106.6	108.2	108.9	109.9	112.7	113.2	115.1	118.2	117.2	118.8
80°	82.4	80.4	82.4	83.1	83.1	86.4	86.4	87.8	89.8	87.8	89.8
82.5°	58.9	57.9	59.4	59.5	60.6	60.7	61.8	62.0	64.0	63.1	64.0
85°	29.5	28.8	29.5	28.8	29.5	30.2	30.2	29.5	29.5	30.8	28.8
87.5°	10.7	10.4	10.2	10.4	10.1	9.9	9.5	9.6	9.8	8.9	9.0
90°	7.8	9.3	10.6	11.9	13.1	14.4	15.2	16.1	16.9	17.7	18.2
92.5°	13.9	14.2	14.8	15.5	16.2	16.8	17.2	17.6	18.0	18.4	18.8
95°	25.8	23.6	24.8	26.0	27.1	28.2	29.0	29.8	30.6	31.4	31.7
97.5°	33.4	27.3	29.9	32.5	35.1	37.7	38.4	39.0	39.6	40.3	40.7
100°	39.9	30.3	33.0	35.7	38.5	41.2	42.4	43.7	45.0	46.4	47.2
102.5°	147.3	133.6	110.8	88.0	65.1	42.3	44.0	45.6	47.4	49.0	50.1
105°	238.8	219.3	175.5	131.7	87.9	44.0	45.8	47.6	49.4	51.1	52.3
107.5°	296.3	272.0	219.3	166.8	114.2	61.7	59.9	58.1	56.2	54.5	53.9
110°	333.5	311.9	265.6	219.2	172.8	126.4	110.4	94.3	78.3	62.2	54.5



TEST NUMBER: P331393-840

CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	368.9	364.7	353.3	341.7	330.3	318.8	260.3	201.8	143.2	84.6	55.5
115°	426.3	429.7	433.6	437.7	441.7	445.8	371.4	297.1	222.8	148.5	105.4
117.5°	479.7	482.6	485.4	488.2	490.9	493.7	475.7	457.8	439.7	421.7	393.7
120°	515.3	518.0	520.9	523.7	526.6	529.5	531.4	533.4	535.3	537.2	527.4
122.5°	548.2	551.0	554.2	557.3	560.5	563.6	564.7	565.9	567.0	568.3	566.7
125°	595.6	598.2	601.3	604.3	607.3	610.5	611.6	612.7	613.8	614.9	615.7
127.5°	641.2	643.5	645.8	648.0	650.4	652.6	654.3	655.9	657.5	659.1	660.0
130°	670.6	672.7	674.5	676.2	678.0	679.7	681.6	683.3	685.1	686.8	687.6
132.5°	697.9	699.8	701.7	703.4	705.2	706.9	708.4	709.9	711.4	713.0	713.7
135°	737.0	739.0	740.4	741.8	743.4	744.8	746.4	748.0	749.6	751.2	751.8
137.5°	771.9	773.7	775.3	776.9	778.5	780.2	781.7	783.4	784.9	786.5	787.0
140°	794.7	796.3	798.0	799.8	801.5	803.3	804.8	806.2	807.6	809.1	809.4
142.5°	815.0	816.6	818.6	820.6	822.6	824.7	826.0	827.3	828.6	829.9	830.2
145°	842.4	843.6	846.4	849.1	851.8	854.5	855.8	856.9	858.0	859.1	859.2
147.5°	869.1	870.1	872.8	875.5	878.2	880.9	881.7	882.5	883.4	884.2	884.3
150°	885.4	886.3	888.8	891.3	893.9	896.5	897.5	898.4	899.4	900.3	900.4
152.5°	900.6	901.2	903.6	906.1	908.5	910.9	911.9	912.8	913.8	914.8	914.7
155°	922.5	922.7	924.6	926.6	928.5	930.4	931.4	932.4	933.3	934.3	934.1
157.5°	941.2	941.2	942.6	943.9	945.2	946.6	947.8	948.8	949.9	951.0	950.9
160°	952.6	952.6	953.5	954.5	955.4	956.4	957.5	958.4	959.4	960.3	960.2
162.5°	961.8	961.8	962.6	963.4	964.3	965.1	966.2	967.2	968.4	969.5	969.4
165°	974.2	974.0	974.5	975.0	975.4	975.9	977.0	978.2	979.4	980.5	980.5
167.5°	983.5	983.2	983.7	984.1	984.6	985.0	986.1	987.3	988.5	989.6	989.4
170°	988.8	988.4	988.8	989.1	989.4	989.7	990.8	991.9	993.0	994.2	994.0
172.5°	992.2	991.9	992.2	992.5	992.8	993.1	994.3	995.4	996.5	997.6	997.4
175°	996.0	995.6	995.9	996.2	996.5	996.9	998.0	999.2	1000.3	1001.4	1001.2
177.5°	997.6	997.2	997.3	997.5	997.6	997.7	998.7	999.6	1000.5	1001.4	1001.3
180°	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4



TEST NUMBER: P331393-840

CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1672.2	1671.2	1671.2	1666.4	1671.2	1671.2	1672.2	1677.7	1679.2	1680.3	1678.2
5°	1551.3	1549.2	1545.9	1549.2	1545.9	1549.2	1551.3	1560.6	1565.3	1570.0	1574.1
7.5°	1431.6	1423.5	1422.3	1414.4	1422.3	1423.5	1431.6	1436.0	1445.4	1456.0	1465.6
10°	1344.2	1338.9	1338.2	1325.4	1338.2	1338.9	1344.2	1355.6	1364.9	1377.8	1391.1
12.5°	1277.8	1264.9	1267.4	1260.0	1267.4	1264.9	1277.8	1277.9	1288.9	1296.8	1317.7
15°	1162.7	1162.7	1159.9	1148.5	1159.9	1162.7	1162.7	1180.7	1184.1	1196.8	1214.9
17.5°	1079.9	1078.5	1072.2	1075.4	1072.2	1078.5	1079.9	1093.2	1095.5	1112.5	1127.4
20°	1030.6	1026.6	1018.5	1018.5	1018.5	1026.6	1030.6	1037.9	1046.7	1056.7	1069.4
22.5°	984.0	983.7	975.1	977.8	975.1	983.7	984.0	990.8	999.0	1010.1	1020.7
25°	929.4	924.0	920.1	922.0	920.1	924.0	929.4	930.1	939.5	946.8	953.5
27.5°	877.7	874.7	874.4	869.0	874.4	874.7	877.7	879.4	884.7	889.1	895.3
30°	847.7	841.0	842.3	839.0	842.3	841.0	847.7	848.4	851.0	853.7	861.1
32.5°	813.3	810.9	809.6	806.8	809.6	810.9	813.3	814.6	819.9	822.6	828.4
35°	766.6	767.3	763.9	765.3	763.9	767.3	766.6	767.9	768.6	771.2	776.7
37.5°	725.7	727.8	726.3	726.7	726.3	727.8	725.7	726.4	727.0	727.4	729.0
40°	698.9	698.9	698.9	700.9	698.9	698.9	698.9	696.9	697.6	696.9	696.9
42.5°	673.2	672.1	671.1	670.9	671.1	672.1	673.2	668.5	670.8	668.5	667.4
45°	629.2	631.3	631.9	628.5	631.9	631.3	629.2	627.8	625.9	625.2	624.5
47.5°	589.5	589.7	589.5	592.4	589.5	589.7	589.5	587.6	584.6	583.4	580.2
50°	561.6	560.2	561.6	560.2	561.6	560.2	561.6	558.2	556.1	552.8	550.2
52.5°	532.1	532.3	531.5	531.3	531.5	532.3	532.1	527.7	526.6	525.5	521.2
55°	485.8	487.2	486.5	486.5	486.5	487.2	485.8	483.1	482.5	478.5	474.4
57.5°	438.0	439.2	440.1	437.2	440.1	439.2	438.0	437.6	437.2	432.9	428.6
60°	404.8	408.1	407.4	406.1	407.4	408.1	404.8	405.4	403.4	400.7	398.0
62.5°	374.2	375.4	375.3	375.0	375.3	375.4	374.2	371.1	370.1	367.5	364.8
65°	327.0	328.3	326.3	328.3	326.3	328.3	327.0	325.0	320.3	318.9	316.3
67.5°	276.2	276.6	278.1	279.0	278.1	276.6	276.2	277.0	274.0	271.4	270.8
70°	244.6	243.9	245.9	247.9	245.9	243.9	244.6	243.3	241.3	239.2	236.5
72.5°	211.4	212.8	212.2	213.6	212.2	212.8	211.4	211.6	209.6	207.0	204.4
75°	162.8	164.8	164.2	166.2	164.2	164.8	162.8	164.2	162.8	160.2	157.4
77.5°	117.6	118.0	117.6	118.8	117.6	118.0	117.6	118.8	117.2	118.2	115.1
80°	89.8	88.5	87.2	89.8	87.2	88.5	89.8	89.8	87.8	89.8	87.8
82.5°	62.4	63.2	61.9	61.9	61.9	63.2	62.4	64.0	63.1	64.0	62.0
85°	28.8	28.2	26.8	26.8	26.8	28.2	28.8	28.8	30.8	29.5	29.5
87.5°	9.1	8.6	8.7	8.2	8.7	8.6	9.1	9.0	8.9	9.8	9.6
90°	18.6	18.9	19.2	19.5	19.2	18.9	18.6	18.2	17.7	16.9	16.1
92.5°	18.9	19.1	19.3	19.5	19.3	19.1	18.9	18.8	18.4	18.0	17.6
95°	31.5	31.4	31.2	31.1	31.2	31.4	31.5	31.7	31.4	30.6	29.8
97.5°	40.9	41.1	41.3	41.5	41.3	41.1	40.9	40.7	40.3	39.6	39.0
100°	47.5	47.8	48.1	48.4	48.1	47.8	47.5	47.2	46.4	45.0	43.7
102.5°	50.5	51.0	51.4	51.9	51.4	51.0	50.5	50.1	49.0	47.4	45.6
105°	53.0	53.6	54.2	54.9	54.2	53.6	53.0	52.3	51.1	49.4	47.6
107.5°	54.5	55.2	55.8	56.5	55.8	55.2	54.5	53.9	54.5	56.2	58.1
110°	55.1	55.7	56.5	57.1	56.5	55.7	55.1	54.5	62.2	78.3	94.3



TEST NUMBER: P331393-840

CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	56.1	56.7	57.2	57.7	57.2	56.7	56.1	55.5	84.6	143.2	201.8
115°	93.9	82.3	70.8	59.3	70.8	82.3	93.9	105.4	148.5	222.8	297.1
117.5°	355.8	317.8	279.8	241.9	279.8	317.8	355.8	393.7	421.7	439.7	457.8
120°	505.6	484.0	462.3	440.7	462.3	484.0	505.6	527.4	537.2	535.3	533.4
122.5°	562.5	558.3	554.1	549.9	554.1	558.3	562.5	566.7	568.3	567.0	565.9
125°	616.2	616.7	617.1	617.6	617.1	616.7	616.2	615.7	614.9	613.8	612.7
127.5°	660.1	660.2	660.4	660.5	660.4	660.2	660.1	660.0	659.1	657.5	655.9
130°	687.5	687.3	687.1	687.0	687.1	687.3	687.5	687.6	686.8	685.1	683.3
132.5°	713.5	713.4	713.2	713.0	713.2	713.4	713.5	713.7	713.0	711.4	709.9
135°	751.5	751.2	750.8	750.5	750.8	751.2	751.5	751.8	751.2	749.6	748.0
137.5°	786.5	785.9	785.4	784.8	785.4	785.9	786.5	787.0	786.5	784.9	783.4
140°	808.6	807.8	807.0	806.2	807.0	807.8	808.6	809.4	809.1	807.6	806.2
142.5°	829.4	828.6	827.8	827.0	827.8	828.6	829.4	830.2	829.9	828.6	827.3
145°	858.5	857.7	856.9	856.1	856.9	857.7	858.5	859.2	859.1	858.0	856.9
147.5°	883.6	882.9	882.3	881.6	882.3	882.9	883.6	884.3	884.2	883.4	882.5
150°	899.6	898.8	898.0	897.2	898.0	898.8	899.6	900.4	900.3	899.4	898.4
152.5°	913.7	912.6	911.6	910.5	911.6	912.6	913.7	914.7	914.8	913.8	912.8
155°	932.8	931.6	930.3	929.0	930.3	931.6	932.8	934.1	934.3	933.3	932.4
157.5°	949.7	948.4	947.2	945.9	947.2	948.4	949.7	950.9	951.0	949.9	948.8
160°	959.1	958.0	956.8	955.7	956.8	958.0	959.1	960.2	960.3	959.4	958.4
162.5°	968.0	966.5	965.2	963.8	965.2	966.5	968.0	969.4	969.5	968.4	967.2
165°	979.4	978.2	977.0	975.9	977.0	978.2	979.4	980.5	980.5	979.4	978.2
167.5°	988.0	986.5	985.0	983.6	985.0	986.5	988.0	989.4	989.6	988.5	987.3
170°	992.6	991.1	989.7	988.3	989.7	991.1	992.6	994.0	994.2	993.0	991.9
172.5°	996.0	994.6	993.1	991.7	993.1	994.6	996.0	997.4	997.6	996.5	995.4
175°	999.6	997.9	996.3	994.7	996.3	997.9	999.6	1001.2	1001.4	1000.3	999.2
177.5°	1000.1	999.0	997.7	996.6	997.7	999.0	1000.1	1001.3	1001.4	1000.5	999.6
180°	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4



TEST NUMBER: P331393-840

CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1675.5	1681.4	1690.5	1700.2	1706.1	1717.3	1720.5	1725.9	1730.7	1742.0	1753.7
5°	1578.7	1588.1	1610.2	1622.2	1639.0	1658.5	1671.2	1684.7	1699.4	1724.8	1748.3
7.5°	1475.0	1490.7	1518.1	1540.7	1564.5	1592.5	1612.6	1639.0	1661.0	1697.0	1731.2
10°	1405.8	1427.9	1452.8	1479.6	1513.1	1542.6	1570.7	1604.2	1631.0	1673.9	1714.1
12.5°	1343.6	1347.1	1382.5	1412.0	1457.8	1494.3	1526.7	1569.9	1596.2	1647.1	1689.4
15°	1235.0	1255.1	1287.3	1310.7	1364.9	1411.2	1456.8	1501.7	1531.9	1594.8	1650.4
17.5°	1143.5	1162.0	1194.9	1233.3	1272.3	1318.4	1377.4	1424.6	1465.6	1537.6	1603.4
20°	1085.5	1108.3	1141.9	1181.3	1215.6	1265.8	1316.8	1371.0	1415.2	1496.3	1573.4
22.5°	1036.2	1054.2	1081.3	1120.2	1157.6	1203.7	1259.4	1318.5	1364.8	1452.4	1530.5
25°	966.9	981.7	999.1	1031.3	1073.5	1123.8	1167.3	1232.3	1300.0	1381.7	1476.2
27.5°	904.5	914.9	930.4	958.7	991.4	1038.3	1086.7	1148.4	1216.5	1305.3	1404.9
30°	866.5	873.1	888.6	912.0	944.1	981.0	1030.0	1088.9	1158.6	1248.4	1347.6
32.5°	833.2	839.4	849.4	871.8	899.7	931.2	975.2	1034.2	1100.7	1188.9	1298.8
35°	783.4	788.0	796.8	814.9	830.2	861.1	898.0	951.5	1013.8	1098.3	1212.2
37.5°	733.7	740.0	745.4	753.1	772.8	793.1	825.2	870.4	931.6	1016.8	1125.4
40°	700.9	706.3	714.3	717.7	733.8	751.8	778.0	819.5	881.2	958.9	1064.8
42.5°	667.7	673.1	677.8	681.8	695.7	711.7	735.1	770.7	825.5	901.0	1005.8
45°	622.5	623.2	627.8	635.2	642.0	653.4	670.0	700.9	743.2	814.2	909.3
47.5°	576.6	577.4	578.2	581.5	588.9	599.2	610.4	635.4	673.2	729.8	822.4
50°	546.1	544.8	546.1	548.8	553.5	562.2	574.9	593.0	623.9	676.8	761.9
52.5°	516.6	516.3	515.5	516.6	520.3	526.2	535.2	550.7	578.2	626.9	701.9
55°	471.7	468.4	469.1	466.4	472.4	473.7	480.5	493.2	517.4	550.8	621.2
57.5°	423.9	421.1	418.2	417.4	416.8	420.4	425.8	435.9	454.3	483.6	540.8
60°	393.3	390.0	386.0	384.7	384.7	386.7	389.3	396.7	414.1	440.3	487.2
62.5°	362.2	358.4	356.0	352.4	351.4	353.5	356.1	361.3	374.0	398.4	438.9
65°	314.3	309.6	306.2	305.6	304.3	302.3	303.6	308.9	318.9	338.4	370.5
67.5°	266.2	261.8	260.9	257.0	255.2	255.4	255.2	259.7	265.8	282.6	306.5
70°	234.5	231.2	229.8	226.5	225.2	223.8	222.5	226.5	232.6	246.6	267.4
72.5°	202.4	199.5	196.6	193.8	194.1	192.7	192.5	194.9	199.9	212.8	228.7
75°	156.1	156.8	153.5	150.1	149.5	148.0	148.0	150.1	152.1	162.2	174.9
77.5°	113.2	112.7	109.9	108.9	108.2	106.6	108.2	109.5	110.6	117.2	126.6
80°	86.4	86.4	83.1	83.1	82.4	80.4	82.4	81.1	83.7	90.5	97.1
82.5°	61.8	60.7	60.6	59.5	59.4	57.9	58.9	60.2	61.2	65.8	69.8
85°	30.2	30.2	29.5	28.8	29.5	28.8	29.5	30.2	30.8	32.8	36.2
87.5°	9.5	9.9	10.1	10.4	10.2	10.4	10.7	10.8	11.6	11.7	11.9
90°	15.2	14.4	13.1	11.9	10.6	9.3	7.8	6.1	4.2	2.5	0.7
92.5°	17.2	16.8	16.2	15.5	14.8	14.2	13.9	14.1	14.2	14.4	14.5
95°	29.0	28.2	27.1	26.0	24.8	23.6	25.8	31.1	36.4	41.7	47.0
97.5°	38.4	37.7	35.1	32.5	29.9	27.3	33.4	48.4	63.3	78.3	93.2
100°	42.4	41.2	38.5	35.7	33.0	30.3	39.9	61.9	83.9	105.8	127.8
102.5°	44.0	42.3	65.1	88.0	110.8	133.6	147.3	152.1	156.7	161.4	166.0
105°	45.8	44.0	87.9	131.7	175.5	219.3	238.8	234.1	229.2	224.4	219.6
107.5°	59.9	61.7	114.2	166.8	219.3	272.0	296.3	292.4	288.5	284.6	280.7
110°	110.4	126.4	172.8	219.2	265.6	311.9	333.5	330.1	326.8	323.4	320.0



TEST NUMBER: P331393-840
 CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	260.3	318.8	330.3	341.7	353.3	364.7	368.9	366.0	362.9	360.0	357.0
115°	371.4	445.8	441.7	437.7	433.6	429.7	426.3	423.5	420.8	418.1	415.4
117.5°	475.7	493.7	490.9	488.2	485.4	482.6	479.7	476.7	473.6	470.6	467.6
120°	531.4	529.5	526.6	523.7	520.9	518.0	515.3	512.9	510.5	508.1	505.6
122.5°	564.7	563.6	560.5	557.3	554.2	551.0	548.2	545.6	543.1	540.6	538.1
125°	611.6	610.5	607.3	604.3	601.3	598.2	595.6	593.6	591.5	589.4	587.3
127.5°	654.3	652.6	650.4	648.0	645.8	643.5	641.2	638.8	636.6	634.3	632.0
130°	681.6	679.7	678.0	676.2	674.5	672.7	670.6	667.9	665.4	662.9	660.2
132.5°	708.4	706.9	705.2	703.4	701.7	699.8	697.9	695.7	693.6	691.4	689.1
135°	746.4	744.8	743.4	741.8	740.4	739.0	737.0	734.5	731.8	729.3	726.7
137.5°	781.7	780.2	778.5	776.9	775.3	773.7	771.9	770.1	768.3	766.5	764.8
140°	804.8	803.3	801.5	799.8	798.0	796.3	794.7	793.5	792.1	790.8	789.6
142.5°	826.0	824.7	822.6	820.6	818.6	816.6	815.0	813.9	812.7	811.5	810.4
145°	855.8	854.5	851.8	849.1	846.4	843.6	842.4	842.5	842.7	842.8	843.0
147.5°	881.7	880.9	878.2	875.5	872.8	870.1	869.1	869.7	870.3	870.9	871.5
150°	897.5	896.5	893.9	891.3	888.8	886.3	885.4	886.7	887.8	888.9	890.0
152.5°	911.9	910.9	908.5	906.1	903.6	901.2	900.6	901.8	903.1	904.3	905.5
155°	931.4	930.4	928.5	926.6	924.6	922.7	922.5	923.9	925.3	926.9	928.3
157.5°	947.8	946.6	945.2	943.9	942.6	941.2	941.2	942.4	943.6	944.8	946.0
160°	957.5	956.4	955.4	954.5	953.5	952.6	952.6	953.5	954.5	955.4	956.4
162.5°	966.2	965.1	964.3	963.4	962.6	961.8	961.8	962.8	963.8	964.7	965.7
165°	977.0	975.9	975.4	975.0	974.5	974.0	974.2	975.2	976.2	977.1	978.2
167.5°	986.1	985.0	984.6	984.1	983.7	983.2	983.5	984.5	985.4	986.4	987.3
170°	990.8	989.7	989.4	989.1	988.8	988.4	988.8	989.7	990.7	991.6	992.6
172.5°	994.3	993.1	992.8	992.5	992.2	991.9	992.2	993.1	994.1	995.0	996.0
175°	998.0	996.9	996.5	996.2	995.9	995.6	996.0	997.1	998.3	999.4	1000.5
177.5°	998.7	997.7	997.6	997.5	997.3	997.2	997.6	998.6	999.5	1000.4	1001.3
180°	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4



TEST NUMBER: P331393-840

CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1752.7	1755.3	1763.9	1772.5	1782.2	1784.8	1789.2	1785.4	1784.3	1794.5	1802.0
5°	1757.7	1769.7	1793.2	1814.6	1832.7	1845.4	1858.9	1864.2	1874.2	1888.3	1905.7
7.5°	1752.0	1775.4	1812.3	1843.6	1877.6	1902.1	1921.3	1937.6	1957.5	1984.2	2013.3
10°	1745.6	1777.1	1822.0	1860.2	1901.7	1933.2	1959.3	1984.8	2014.3	2051.1	2089.3
12.5°	1733.8	1771.2	1827.4	1872.5	1925.8	1956.8	1992.1	2047.0	2078.6	2130.0	2183.7
15°	1710.1	1751.6	1830.0	1885.6	1945.9	2004.9	2069.9	2122.2	2174.4	2204.6	2280.4
17.5°	1674.9	1735.9	1822.6	1887.5	1964.2	2057.1	2130.1	2189.3	2249.7	2298.6	2336.5
20°	1646.4	1712.7	1811.9	1889.7	1980.7	2080.6	2164.4	2224.7	2276.9	2317.8	2341.3
22.5°	1610.5	1693.9	1790.5	1881.6	1997.9	2096.7	2184.7	2232.2	2275.9	2295.8	2304.8
25°	1554.0	1654.5	1763.7	1874.9	2006.3	2110.8	2191.2	2220.0	2232.7	2213.3	2181.1
27.5°	1493.0	1605.0	1732.7	1862.3	2001.1	2101.6	2159.3	2154.7	2133.1	2070.3	2020.0
30°	1447.4	1570.7	1708.1	1849.5	1988.8	2086.7	2120.2	2086.7	2037.7	1967.4	1895.7
32.5°	1399.7	1527.3	1681.8	1831.2	1966.3	2052.3	2059.6	2002.0	1926.2	1846.2	1756.9
35°	1327.5	1465.5	1632.3	1790.5	1918.4	1972.8	1940.6	1838.8	1749.0	1639.7	1517.7
37.5°	1245.9	1398.3	1565.6	1730.8	1846.7	1861.0	1781.1	1673.9	1547.2	1418.9	1275.4
40°	1184.8	1346.3	1518.4	1685.3	1787.8	1773.0	1671.2	1553.3	1402.5	1245.7	1112.4
42.5°	1130.0	1291.5	1466.9	1630.6	1712.7	1672.2	1553.3	1408.6	1246.5	1098.8	976.7
45°	1035.3	1201.4	1381.1	1539.2	1586.1	1513.1	1355.6	1194.8	1035.3	912.0	815.5
47.5°	943.3	1107.6	1285.5	1424.5	1441.1	1342.8	1170.7	1005.3	868.2	767.8	699.7
50°	875.9	1040.7	1216.9	1340.9	1335.4	1216.9	1040.0	882.5	767.9	686.8	641.3
52.5°	815.3	971.0	1140.2	1252.9	1224.6	1095.2	926.3	786.6	692.4	628.9	587.6
55°	721.0	865.1	1025.9	1116.4	1064.1	920.7	778.0	665.4	595.7	548.2	515.9
57.5°	627.4	762.5	900.2	955.9	898.2	765.8	646.8	565.1	512.7	477.5	456.6
60°	569.6	687.5	810.1	858.4	789.4	671.5	577.6	504.6	462.3	433.5	414.8
62.5°	511.7	617.3	733.0	759.2	696.1	596.4	513.3	452.6	417.9	392.2	374.6
65°	432.9	519.3	607.1	624.5	566.2	489.2	423.5	384.0	353.1	334.4	320.3
67.5°	355.0	424.4	486.7	500.7	449.6	396.2	348.7	314.3	293.4	277.8	265.9
70°	308.9	363.9	414.8	426.2	385.3	337.7	301.5	274.1	255.3	241.9	230.6
72.5°	260.1	306.0	348.3	356.0	322.6	286.3	256.5	234.9	218.3	209.7	198.8
75°	199.0	225.8	258.6	260.6	238.5	216.4	193.7	179.6	170.9	160.2	154.8
77.5°	140.5	161.5	180.3	183.9	170.8	155.7	143.0	131.9	124.5	119.6	114.6
80°	107.2	124.0	132.0	136.7	127.3	116.6	109.3	101.9	97.1	93.8	90.5
82.5°	76.6	86.9	94.5	98.1	93.0	86.5	79.2	75.0	71.4	68.6	67.5
85°	38.9	43.5	48.3	49.6	48.3	45.5	41.5	41.5	39.5	38.9	38.9
87.5°	13.9	16.4	16.8	18.7	18.0	18.2	18.5	18.2	17.9	17.6	17.2
90°	2.5	4.2	6.1	7.8	9.3	10.6	11.9	13.1	14.4	15.2	16.1
92.5°	14.4	14.2	14.1	13.9	14.2	14.8	15.5	16.2	16.8	17.2	17.6
95°	41.7	36.4	31.1	25.8	23.6	24.8	26.0	27.1	28.2	29.0	29.8
97.5°	78.3	63.3	48.4	33.4	27.3	29.9	32.5	35.1	37.7	38.4	39.0
100°	105.8	83.9	61.9	39.9	30.3	33.0	35.7	38.5	41.2	42.4	43.7
102.5°	161.4	156.7	152.1	147.3	133.6	110.8	88.0	65.1	42.3	44.0	45.6
105°	224.4	229.2	234.1	238.8	219.3	175.5	131.7	87.9	44.0	45.8	47.6
107.5°	284.6	288.5	292.4	296.3	272.0	219.3	166.8	114.2	61.7	59.9	58.1
110°	323.4	326.8	330.1	333.5	311.9	265.6	219.2	172.8	126.4	110.4	94.3



TEST NUMBER: P331393-840

CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	360.0	362.9	366.0	368.9	364.7	353.3	341.7	330.3	318.8	260.3	201.8
115°	418.1	420.8	423.5	426.3	429.7	433.6	437.7	441.7	445.8	371.4	297.1
117.5°	470.6	473.6	476.7	479.7	482.6	485.4	488.2	490.9	493.7	475.7	457.8
120°	508.1	510.5	512.9	515.3	518.0	520.9	523.7	526.6	529.5	531.4	533.4
122.5°	540.6	543.1	545.6	548.2	551.0	554.2	557.3	560.5	563.6	564.7	565.9
125°	589.4	591.5	593.6	595.6	598.2	601.3	604.3	607.3	610.5	611.6	612.7
127.5°	634.3	636.6	638.8	641.2	643.5	645.8	648.0	650.4	652.6	654.3	655.9
130°	662.9	665.4	667.9	670.6	672.7	674.5	676.2	678.0	679.7	681.6	683.3
132.5°	691.4	693.6	695.7	697.9	699.8	701.7	703.4	705.2	706.9	708.4	709.9
135°	729.3	731.8	734.5	737.0	739.0	740.4	741.8	743.4	744.8	746.4	748.0
137.5°	766.5	768.3	770.1	771.9	773.7	775.3	776.9	778.5	780.2	781.7	783.4
140°	790.8	792.1	793.5	794.7	796.3	798.0	799.8	801.5	803.3	804.8	806.2
142.5°	811.5	812.7	813.9	815.0	816.6	818.6	820.6	822.6	824.7	826.0	827.3
145°	842.8	842.7	842.5	842.4	843.6	846.4	849.1	851.8	854.5	855.8	856.9
147.5°	870.9	870.3	869.7	869.1	870.1	872.8	875.5	878.2	880.9	881.7	882.5
150°	888.9	887.8	886.7	885.4	886.3	888.8	891.3	893.9	896.5	897.5	898.4
152.5°	904.3	903.1	901.8	900.6	901.2	903.6	906.1	908.5	910.9	911.9	912.8
155°	926.9	925.3	923.9	922.5	922.7	924.6	926.6	928.5	930.4	931.4	932.4
157.5°	944.8	943.6	942.4	941.2	941.2	942.6	943.9	945.2	946.6	947.8	948.8
160°	955.4	954.5	953.5	952.6	952.6	953.5	954.5	955.4	956.4	957.5	958.4
162.5°	964.7	963.8	962.8	961.8	961.8	962.6	963.4	964.3	965.1	966.2	967.2
165°	977.1	976.2	975.2	974.2	974.0	974.5	975.0	975.4	975.9	977.0	978.2
167.5°	986.4	985.4	984.5	983.5	983.2	983.7	984.1	984.6	985.0	986.1	987.3
170°	991.6	990.7	989.7	988.8	988.4	988.8	989.1	989.4	989.7	990.8	991.9
172.5°	995.0	994.1	993.1	992.2	991.9	992.2	992.5	992.8	993.1	994.3	995.4
175°	999.4	998.3	997.1	996.0	995.6	995.9	996.2	996.5	996.9	998.0	999.2
177.5°	1000.4	999.5	998.6	997.6	997.2	997.3	997.5	997.6	997.7	998.7	999.6
180°	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4



TEST NUMBER: P331393-840
 CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1808.5	1815.9	1815.9	1817.1	1825.6	1824.5	1824.0
5°	1924.5	1935.9	1937.2	1949.3	1957.3	1954.7	1947.3
7.5°	2034.0	2055.2	2071.2	2080.2	2090.8	2097.4	2094.5
10°	2120.8	2151.6	2170.4	2183.1	2198.6	2210.0	2205.9
12.5°	2199.7	2236.3	2262.1	2283.9	2285.9	2300.6	2290.7
15°	2322.6	2361.4	2365.4	2381.5	2394.3	2392.9	2393.6
17.5°	2363.2	2375.6	2378.1	2378.5	2378.7	2374.0	2363.8
20°	2348.6	2344.0	2332.6	2323.9	2308.5	2306.4	2293.1
22.5°	2280.1	2265.2	2236.6	2217.8	2193.7	2187.5	2183.7
25°	2145.0	2112.1	2066.6	2023.0	2010.9	1987.5	1994.2
27.5°	1959.6	1908.4	1859.1	1823.7	1791.7	1756.6	1766.7
30°	1829.4	1771.7	1702.0	1648.4	1614.3	1580.7	1574.7
32.5°	1673.9	1589.4	1511.8	1464.5	1412.2	1391.0	1367.8
35°	1405.8	1323.4	1246.4	1180.0	1141.9	1112.4	1085.5
37.5°	1164.8	1069.9	1007.6	953.9	926.3	909.5	913.7
40°	1015.2	932.1	886.6	845.7	820.2	808.1	810.8
42.5°	894.0	831.8	794.4	766.3	748.3	741.6	740.0
45°	756.5	721.6	690.8	674.8	666.1	658.7	654.0
47.5°	662.7	634.3	616.9	607.3	599.8	592.2	592.1
50°	606.4	587.6	575.6	565.5	559.6	554.2	558.9
52.5°	563.5	546.4	534.3	525.3	523.1	518.3	518.2
55°	499.9	486.5	477.8	469.7	465.7	463.0	459.7
57.5°	442.0	429.3	421.2	416.2	408.5	405.8	404.8
60°	400.7	390.6	382.6	375.9	372.5	367.2	367.2
62.5°	362.6	352.6	345.1	340.0	334.5	332.3	333.0
65°	307.6	299.5	292.2	286.8	285.5	281.4	282.8
67.5°	256.9	251.6	243.8	240.9	238.3	236.1	234.5
70°	223.2	217.8	213.8	209.7	207.7	207.7	207.7
72.5°	194.7	188.3	185.9	180.8	182.0	179.9	177.7
75°	150.8	146.7	144.7	142.7	139.4	139.4	139.4
77.5°	111.0	109.8	107.3	105.2	104.4	103.7	104.0
80°	85.7	85.1	83.7	83.7	82.4	81.8	80.4
82.5°	65.9	64.2	63.4	62.8	62.6	62.4	62.2
85°	37.6	36.2	36.2	36.9	35.5	35.5	36.2
87.5°	17.9	18.0	17.6	17.7	18.3	17.8	17.9
90°	16.9	17.7	18.2	18.6	18.9	19.2	19.5
92.5°	18.0	18.4	18.8	18.9	19.1	19.3	19.5
95°	30.6	31.4	31.7	31.5	31.4	31.2	31.1
97.5°	39.6	40.3	40.7	40.9	41.1	41.3	41.5
100°	45.0	46.4	47.2	47.5	47.8	48.1	48.4
102.5°	47.4	49.0	50.1	50.5	51.0	51.4	51.9
105°	49.4	51.1	52.3	53.0	53.6	54.2	54.9
107.5°	56.2	54.5	53.9	54.5	55.2	55.8	56.5
110°	78.3	62.2	54.5	55.1	55.7	56.5	57.1



TEST NUMBER: P331393-840

CATALOG NUMBER: SA2XXDIP-C865D725U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	143.2	84.6	55.5	56.1	56.7	57.2	57.7
115°	222.8	148.5	105.4	93.9	82.3	70.8	59.3
117.5°	439.7	421.7	393.7	355.8	317.8	279.8	241.9
120°	535.3	537.2	527.4	505.6	484.0	462.3	440.7
122.5°	567.0	568.3	566.7	562.5	558.3	554.1	549.9
125°	613.8	614.9	615.7	616.2	616.7	617.1	617.6
127.5°	657.5	659.1	660.0	660.1	660.2	660.4	660.5
130°	685.1	686.8	687.6	687.5	687.3	687.1	687.0
132.5°	711.4	713.0	713.7	713.5	713.4	713.2	713.0
135°	749.6	751.2	751.8	751.5	751.2	750.8	750.5
137.5°	784.9	786.5	787.0	786.5	785.9	785.4	784.8
140°	807.6	809.1	809.4	808.6	807.8	807.0	806.2
142.5°	828.6	829.9	830.2	829.4	828.6	827.8	827.0
145°	858.0	859.1	859.2	858.5	857.7	856.9	856.1
147.5°	883.4	884.2	884.3	883.6	882.9	882.3	881.6
150°	899.4	900.3	900.4	899.6	898.8	898.0	897.2
152.5°	913.8	914.8	914.7	913.7	912.6	911.6	910.5
155°	933.3	934.3	934.1	932.8	931.6	930.3	929.0
157.5°	949.9	951.0	950.9	949.7	948.4	947.2	945.9
160°	959.4	960.3	960.2	959.1	958.0	956.8	955.7
162.5°	968.4	969.5	969.4	968.0	966.5	965.2	963.8
165°	979.4	980.5	980.5	979.4	978.2	977.0	975.9
167.5°	988.5	989.6	989.4	988.0	986.5	985.0	983.6
170°	993.0	994.2	994.0	992.6	991.1	989.7	988.3
172.5°	996.5	997.6	997.4	996.0	994.6	993.1	991.7
175°	1000.3	1001.4	1001.2	999.6	997.9	996.3	994.7
177.5°	1000.5	1001.4	1001.3	1000.1	999.0	997.7	996.6
180°	998.4	998.4	998.4	998.4	998.4	998.4	998.4

(END OF REPORT)