

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: P331438

Luminaire Tested: **SA2XXDIP-C1005D725U835-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331438
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-C1005D725U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

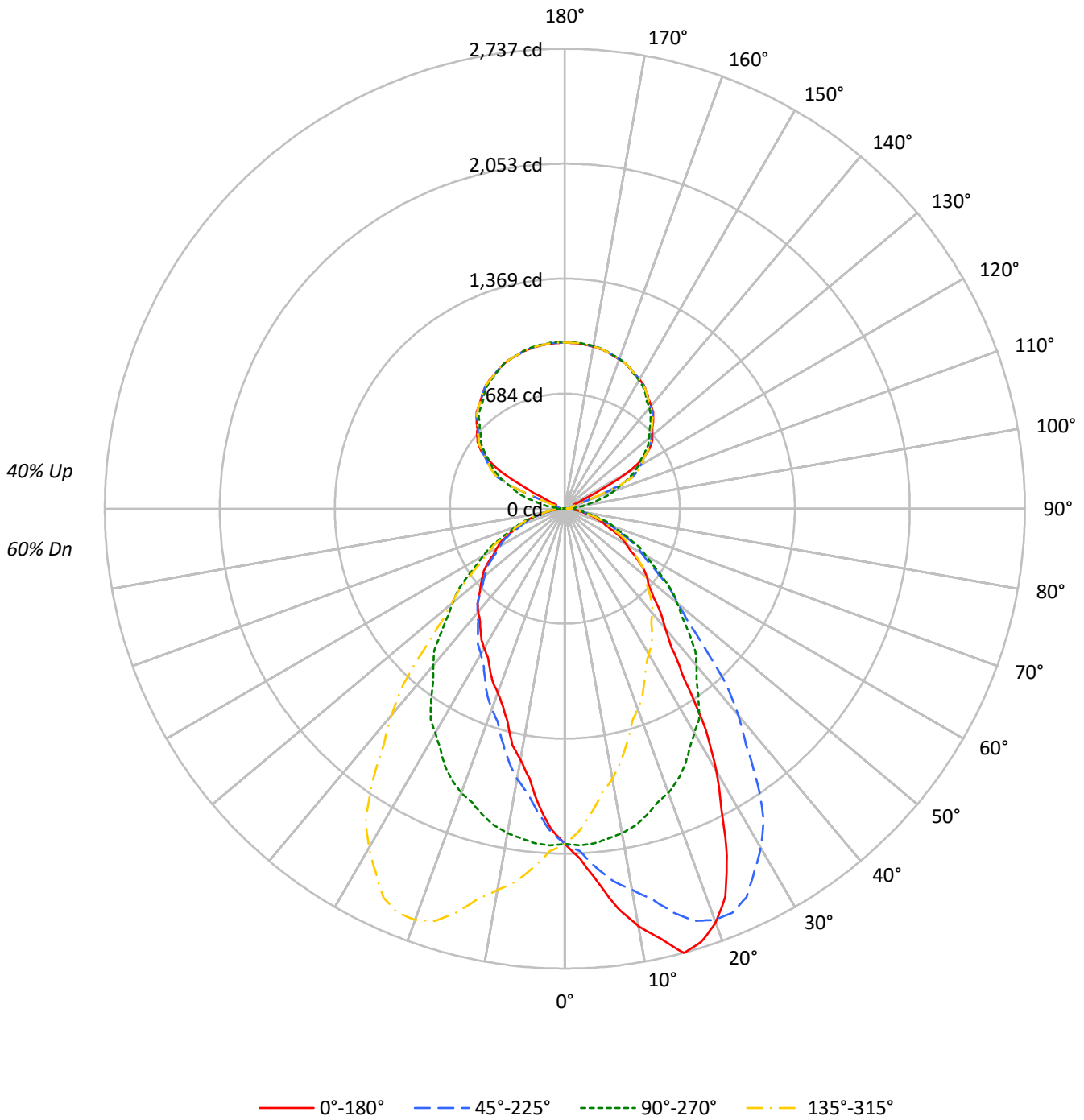
Lumens per Lamp: N/A
Luminaire Lumens: 7298.8 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 60.7
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	50	30	10	0	
RCR																						
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60				
1	101	96	93	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52				
2	92	85	79	74	86	80	75	70	70	66	63	61	58	55	53	50	49	44				
3	84	75	68	62	79	71	64	59	62	57	53	54	51	48	47	44	42	38				
4	78	67	59	53	72	63	56	51	56	50	46	49	45	41	42	39	37	33				
5	72	60	52	46	67	57	50	44	50	45	40	44	40	36	39	35	32	29				
6	66	54	46	40	62	51	44	39	46	40	35	40	36	32	35	32	29	26				
7	61	49	41	36	57	47	39	34	41	36	31	37	32	29	32	29	26	23				
8	57	45	37	32	53	43	36	31	38	32	28	34	29	26	30	26	23	21				
9	53	41	34	29	50	39	32	28	35	29	25	31	27	23	28	24	21	19				
10	50	38	31	26	47	36	29	25	32	27	23	29	24	21	26	22	19	18				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	32195	32195	32195	32195
5°	36094	32405	28716	32405
10°	41361	32139	24851	32139
15°	45757	31550	21956	31550
20°	45060	30917	20015	30917
25°	40631	30077	18786	30077
30°	33575	28732	17889	28732
35°	24471	27325	17251	27325
40°	19545	25665	16895	25665
45°	17080	23745	16413	23745
50°	16053	21886	16093	21886
55°	14798	19997	15662	19997
60°	13563	17990	14996	17990
65°	12355	16191	14346	16191
70°	11216	14436	13388	14436
75°	9944	12477	11859	12477
80°	8554	10330	9549	10330
85°	7669	7669	5687	7669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	2.6
10°-20°	552.1	7.6
20°-30°	801.2	11.0
30°-40°	845.5	11.6
40°-50°	748.6	10.3
50°-60°	597.4	8.2
60°-70°	406.1	5.6
70°-80°	208.2	2.9
80°-90°	52.6	0.7
90°-100°	33.0	0.5
100°-110°	120.9	1.7
110°-120°	323.3	4.4
120°-130°	533.6	7.3
130°-140°	567.5	7.8
140°-150°	527.5	7.2
150°-160°	424.1	5.8
160°-170°	273.3	3.7
170°-180°	94.1	1.3
0°-30°	1543.2	21.1
0°-40°	2388.7	32.7
0°-60°	3734.8	51.2
0°-90°	4401.7	60.3
90°-120°	477.2	6.5
90°-150°	2105.7	28.8
90°-180°	2897.0	39.7
0°-180°	7298.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1994	1994	1994	1994	1994	
5°	2227	1999	1772	1999	2227	222
15°	2737	1888	1314	1888	2737	755
25°	2281	1688	1054	1688	2281	1031
35°	1242	1386	875	1386	1242	807
45°	748	1040	719	1040	748	588
55°	526	710	556	710	526	471
65°	323	424	376	424	323	322
75°	159	200	190	200	159	170
85°	41	41	31	41	41	46
90°	19	1	19	1	19	11
95°	31	46	31	46	31	29
105°	54	218	54	218	54	57
115°	59	411	59	411	59	147
125°	612	582	612	582	612	529
135°	743	720	743	720	743	573
145°	848	835	848	835	848	530
155°	920	919	920	919	920	424
165°	966	969	966	969	966	273
175°	985	991	985	991	985	94
180°	989	989	989	989	989	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2086.0	2086.6	2087.8	2078.0	2076.8	2076.8	2068.2	2060.9	2052.3	2040.6	2041.9
5°	2227.0	2235.4	2238.5	2229.3	2215.5	2214.0	2201.0	2179.5	2159.6	2143.5	2132.0
7.5°	2395.3	2398.7	2391.2	2379.1	2368.8	2350.4	2326.2	2302.4	2269.2	2238.7	2216.0
10°	2522.8	2527.4	2514.4	2496.8	2482.2	2460.8	2425.5	2389.5	2345.8	2303.7	2269.9
12.5°	2619.7	2631.0	2614.3	2612.0	2587.1	2557.6	2515.6	2497.4	2435.9	2377.2	2341.1
15°	2737.4	2736.6	2738.2	2723.6	2705.2	2700.6	2656.2	2607.9	2521.3	2486.8	2427.0
17.5°	2703.4	2715.0	2720.4	2720.2	2719.8	2716.9	2702.6	2672.1	2628.7	2572.8	2503.8
20°	2622.5	2637.8	2640.1	2657.7	2667.7	2680.7	2686.1	2677.6	2650.8	2604.1	2544.3
22.5°	2497.4	2501.7	2508.9	2536.3	2557.9	2590.6	2607.6	2635.9	2625.7	2602.8	2552.9
25°	2280.7	2273.0	2299.8	2313.6	2363.4	2415.5	2453.1	2494.5	2531.3	2553.5	2538.9
27.5°	2020.4	2008.9	2049.1	2085.7	2126.2	2182.6	2241.1	2310.2	2367.7	2439.6	2464.3
30°	1800.9	1807.8	1846.1	1885.2	1946.5	2026.2	2092.1	2168.0	2250.0	2330.5	2386.4
32.5°	1564.3	1590.8	1615.0	1674.9	1728.9	1817.8	1914.3	2009.2	2111.5	2203.0	2289.6
35°	1241.5	1272.1	1305.9	1349.5	1425.4	1513.5	1607.8	1735.8	1875.3	2000.2	2102.9
37.5°	1045.0	1040.1	1059.4	1091.0	1152.4	1223.6	1332.1	1458.5	1622.7	1769.5	1914.3
40°	927.3	924.2	938.0	967.1	1013.9	1066.0	1161.0	1272.1	1424.6	1604.0	1776.4
42.5°	846.4	848.2	855.9	876.4	908.4	951.3	1022.5	1117.0	1256.7	1425.6	1610.9
45°	748.0	753.3	761.8	771.7	790.1	825.4	865.2	932.7	1043.0	1184.0	1366.4
47.5°	677.1	677.3	685.9	694.6	705.5	725.4	757.9	800.2	878.1	992.9	1149.7
50°	639.1	633.8	639.9	646.8	658.3	672.1	693.5	733.4	785.5	878.2	1009.3
52.5°	592.5	592.7	598.2	600.8	611.1	624.9	644.5	672.1	719.3	791.8	899.5
55°	525.7	529.5	532.6	537.2	546.4	556.4	571.7	590.1	626.9	681.3	761.0
57.5°	462.9	464.1	467.2	475.9	481.7	490.9	505.5	522.2	546.1	586.4	646.3
60°	420.0	420.0	426.1	429.9	437.6	446.8	458.3	474.4	495.8	528.8	577.1
62.5°	380.7	380.1	382.6	388.8	394.7	403.3	414.7	428.4	448.6	477.9	517.6
65°	323.4	321.9	326.5	328.0	334.1	342.6	351.8	366.3	382.4	403.9	439.1
67.5°	268.2	270.1	272.5	275.4	278.8	287.7	293.8	304.1	317.7	335.5	359.4
70°	237.6	237.6	237.6	239.9	244.5	249.1	255.2	263.6	276.7	292.0	313.4
72.5°	203.2	205.7	208.1	206.8	212.6	215.3	222.7	227.5	239.9	249.7	268.7
75°	159.4	159.4	159.4	163.2	165.5	167.8	172.4	177.0	183.2	195.4	205.4
77.5°	118.9	118.6	119.4	120.3	122.8	125.5	126.9	131.0	136.7	142.4	150.8
80°	92.0	93.5	94.3	95.8	95.8	97.3	98.1	103.5	107.3	111.1	116.5
82.5°	71.1	71.4	71.6	71.9	72.5	73.4	75.4	77.1	78.5	81.7	85.8
85°	41.4	40.6	40.6	42.1	41.4	41.4	42.9	44.4	44.4	45.2	47.5
87.5°	19.8	19.7	20.3	19.6	19.5	20.1	19.9	19.1	19.6	20.0	20.4
90°	19.3	19.0	18.7	18.4	18.0	17.5	16.7	15.9	15.1	14.3	13.0
92.5°	19.3	19.1	18.9	18.7	18.6	18.2	17.8	17.4	17.0	16.6	16.0
95°	30.8	30.9	31.1	31.2	31.4	31.1	30.3	29.5	28.7	27.9	26.8
97.5°	41.1	40.9	40.7	40.5	40.3	39.9	39.2	38.6	38.0	37.3	34.8
100°	47.9	47.6	47.3	47.0	46.7	45.9	44.6	43.3	42.0	40.8	38.1
102.5°	51.4	50.9	50.5	50.0	49.6	48.5	46.9	45.2	43.6	41.9	64.5
105°	54.4	53.7	53.1	52.5	51.8	50.6	48.9	47.1	45.4	43.6	87.0
107.5°	55.9	55.3	54.7	54.0	53.4	54.0	55.7	57.5	59.3	61.1	113.1
110°	56.5	55.9	55.2	54.6	54.0	61.6	77.5	93.4	109.3	125.2	171.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	57.1	56.6	56.1	55.6	55.0	83.8	141.8	199.8	257.8	315.7	327.1
115°	58.7	70.1	81.5	93.0	104.4	147.0	220.6	294.2	367.8	441.4	437.4
117.5°	239.5	277.1	314.7	352.3	389.9	417.6	435.4	453.3	471.1	488.9	486.1
120°	436.4	457.8	479.3	500.7	522.2	532.0	530.1	528.2	526.2	524.3	521.5
122.5°	544.5	548.7	552.8	557.0	561.2	562.7	561.5	560.4	559.2	558.1	555.0
125°	611.6	611.1	610.7	610.2	609.7	608.9	607.8	606.7	605.6	604.5	601.4
127.5°	654.0	653.9	653.8	653.7	653.6	652.7	651.1	649.5	647.9	646.2	644.0
130°	680.3	680.4	680.6	680.8	680.9	680.1	678.4	676.6	674.9	673.1	671.4
132.5°	706.0	706.2	706.4	706.5	706.7	706.0	704.5	703.0	701.5	700.0	698.3
135°	743.2	743.5	743.9	744.2	744.5	743.9	742.3	740.7	739.1	737.5	736.1
137.5°	777.1	777.7	778.2	778.8	779.3	778.8	777.2	775.7	774.1	772.6	770.9
140°	798.3	799.1	799.9	800.7	801.5	801.2	799.7	798.3	796.9	795.5	793.7
142.5°	818.9	819.7	820.5	821.3	822.1	821.8	820.5	819.2	817.9	816.6	814.6
145°	847.7	848.5	849.3	850.1	850.8	850.7	849.6	848.5	847.4	846.2	843.5
147.5°	873.0	873.7	874.3	875.0	875.7	875.6	874.8	873.9	873.1	872.3	869.6
150°	888.4	889.2	890.0	890.8	891.6	891.5	890.6	889.6	888.7	887.7	885.2
152.5°	901.6	902.7	903.7	904.8	905.8	905.9	904.9	903.9	903.0	902.0	899.6
155°	919.9	921.2	922.5	923.7	925.0	925.2	924.2	923.3	922.3	921.3	919.4
157.5°	936.7	937.9	939.1	940.4	941.6	941.7	940.6	939.5	938.5	937.4	936.0
160°	946.4	947.5	948.6	949.7	950.8	950.9	950.0	949.0	948.1	947.1	946.1
162.5°	954.4	955.8	957.1	958.5	959.9	960.0	958.9	957.8	956.8	955.7	954.9
165°	966.4	967.5	968.6	969.8	970.9	970.9	969.8	968.6	967.5	966.4	965.9
167.5°	974.0	975.4	976.9	978.3	979.7	979.9	978.8	977.7	976.5	975.4	975.0
170°	978.6	980.0	981.4	982.9	984.3	984.5	983.3	982.2	981.1	980.0	979.7
172.5°	982.0	983.4	984.9	986.3	987.7	987.9	986.8	985.7	984.6	983.4	983.1
175°	985.0	986.6	988.2	989.8	991.4	991.6	990.5	989.4	988.3	987.2	986.8
177.5°	986.9	988.0	989.2	990.3	991.5	991.6	990.7	989.8	988.9	988.0	987.9
180°	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2046.2	2041.3	2038.2	2027.2	2017.3	2007.5	2004.5	2005.7	1992.2	1979.3	1973.8
5°	2125.9	2110.5	2096.0	2075.3	2050.8	2023.9	2010.1	1999.4	1972.6	1943.5	1926.6
7.5°	2197.3	2175.4	2147.3	2108.4	2072.7	2030.5	2003.7	1979.9	1940.7	1899.6	1874.5
10°	2240.8	2210.9	2174.9	2127.4	2083.7	2032.4	1996.3	1960.3	1914.3	1865.3	1834.6
12.5°	2278.2	2237.9	2202.5	2141.5	2089.8	2025.6	1982.9	1932.1	1883.7	1825.4	1795.4
15°	2367.3	2292.9	2225.5	2156.5	2092.9	2003.2	1955.7	1887.5	1823.9	1751.9	1717.4
17.5°	2436.1	2352.5	2246.3	2158.7	2084.5	1985.2	1915.4	1833.7	1758.5	1676.2	1629.3
20°	2475.3	2379.5	2265.3	2161.1	2072.2	1958.8	1882.9	1799.4	1711.3	1618.5	1568.0
22.5°	2498.6	2397.9	2285.0	2151.9	2047.7	1937.3	1841.8	1750.3	1661.0	1560.9	1507.9
25°	2506.0	2414.0	2294.5	2144.3	2017.0	1892.1	1777.2	1688.3	1580.2	1486.7	1409.3
27.5°	2469.5	2403.6	2288.6	2129.8	1981.6	1835.6	1707.4	1606.7	1492.7	1391.2	1313.4
30°	2424.7	2386.4	2274.5	2115.1	1953.4	1796.3	1655.3	1541.1	1427.7	1325.0	1245.3
32.5°	2355.5	2347.2	2248.8	2094.3	1923.4	1746.7	1600.8	1485.3	1359.7	1258.8	1182.8
35°	2219.4	2256.1	2194.1	2047.7	1866.8	1676.0	1518.1	1386.3	1256.1	1159.5	1088.2
37.5°	2037.0	2128.3	2112.1	1979.5	1790.5	1599.1	1424.8	1287.0	1162.9	1065.4	995.5
40°	1911.3	2027.8	2044.6	1927.4	1736.6	1539.6	1354.9	1217.7	1096.6	1007.8	937.2
42.5°	1776.4	1912.5	1958.8	1864.8	1677.7	1477.1	1292.4	1150.3	1030.4	944.0	881.5
45°	1550.3	1730.4	1814.0	1760.3	1579.5	1374.1	1184.0	1039.9	931.1	849.9	801.6
47.5°	1339.0	1535.8	1648.1	1629.1	1470.2	1266.8	1078.9	940.6	834.7	769.9	726.7
50°	1189.4	1391.7	1527.3	1533.5	1391.7	1190.1	1001.6	871.3	774.0	713.5	678.2
52.5°	1059.4	1252.5	1400.4	1432.9	1304.0	1110.4	932.3	802.7	717.0	661.4	629.8
55°	889.7	1053.0	1217.0	1276.7	1173.3	989.4	824.6	710.4	629.9	591.6	564.0
57.5°	739.7	875.8	1027.2	1093.3	1029.5	872.1	717.6	618.4	553.2	519.6	498.4
60°	660.6	767.9	902.8	981.7	926.5	786.3	651.4	557.1	503.5	473.6	453.7
62.5°	587.0	682.1	796.1	868.3	838.2	706.0	585.2	502.0	455.7	427.6	413.2
65°	484.3	559.4	647.6	714.2	694.3	593.9	495.1	423.8	387.0	364.8	353.3
67.5°	398.8	453.1	514.2	572.6	556.5	485.4	406.0	350.5	323.1	303.9	297.0
70°	344.9	386.2	440.7	487.4	474.4	416.1	353.3	305.8	282.0	265.9	259.0
72.5°	293.4	327.4	368.9	407.1	398.3	349.9	297.5	261.6	243.4	228.5	222.9
75°	221.5	247.5	272.8	298.1	295.8	258.3	227.6	200.0	185.5	174.0	171.7
77.5°	163.5	178.1	195.3	210.3	206.1	184.7	160.6	144.8	134.1	126.4	125.2
80°	124.9	133.3	145.6	156.3	151.0	141.8	122.6	111.1	103.5	95.8	92.7
82.5°	90.6	99.0	106.4	112.2	108.1	99.5	87.7	79.9	75.3	70.0	68.8
85°	47.5	52.1	55.2	56.7	55.2	49.8	44.4	41.4	37.6	35.3	34.5
87.5°	20.7	20.5	20.2	21.2	19.0	18.6	15.8	13.6	13.4	13.1	12.2
90°	11.8	10.5	9.2	7.7	6.0	4.2	2.5	0.7	2.5	4.2	6.0
92.5°	15.3	14.7	14.1	13.8	14.0	14.1	14.3	14.4	14.3	14.1	14.0
95°	25.7	24.6	23.4	25.5	30.8	36.0	41.3	46.5	41.3	36.0	30.8
97.5°	32.2	29.6	27.0	33.1	47.9	62.7	77.5	92.3	77.5	62.7	47.9
100°	35.4	32.7	30.0	39.5	61.3	83.1	104.8	126.6	104.8	83.1	61.3
102.5°	87.1	109.7	132.3	145.9	150.6	155.2	159.8	164.4	159.8	155.2	150.6
105°	130.4	173.8	217.2	236.5	231.8	227.0	222.2	217.5	222.2	227.0	231.8
107.5°	165.2	217.2	269.3	293.4	289.5	285.7	281.8	278.0	281.8	285.7	289.5
110°	217.1	263.0	308.9	330.2	326.9	323.6	320.2	316.9	320.2	323.6	326.9



TEST NUMBER: P331438

CATALOG NUMBER: SA2XXDIP-C1005D725U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	338.4	349.8	361.1	365.3	362.4	359.4	356.5	353.5	356.5	359.4	362.4
115°	433.4	429.4	425.5	422.1	419.4	416.7	414.0	411.3	414.0	416.7	419.4
117.5°	483.4	480.7	477.9	475.0	472.0	469.0	466.0	463.0	466.0	469.0	472.0
120°	518.6	515.8	512.9	510.3	507.9	505.5	503.1	500.7	503.1	505.5	507.9
122.5°	551.9	548.8	545.6	542.8	540.3	537.8	535.3	532.8	535.3	537.8	540.3
125°	598.4	595.4	592.4	589.8	587.8	585.7	583.6	581.6	583.6	585.7	587.8
127.5°	641.7	639.5	637.2	634.9	632.6	630.4	628.1	625.8	628.1	630.4	632.6
130°	669.6	667.9	666.1	664.0	661.4	658.9	656.4	653.8	656.4	658.9	661.4
132.5°	696.5	694.8	693.0	691.1	688.9	686.8	684.6	682.4	684.6	686.8	688.9
135°	734.6	733.2	731.8	729.8	727.3	724.7	722.2	719.6	722.2	724.7	727.3
137.5°	769.3	767.7	766.1	764.4	762.6	760.8	759.0	757.3	759.0	760.8	762.6
140°	792.0	790.2	788.5	786.9	785.7	784.4	783.1	781.9	783.1	784.4	785.7
142.5°	812.6	810.6	808.6	807.0	805.9	804.8	803.6	802.5	803.6	804.8	805.9
145°	840.8	838.1	835.4	834.2	834.3	834.5	834.6	834.8	834.6	834.5	834.3
147.5°	866.9	864.3	861.6	860.6	861.2	861.8	862.4	863.0	862.4	861.8	861.2
150°	882.6	880.1	877.6	876.8	878.0	879.1	880.2	881.3	880.2	879.1	878.0
152.5°	897.2	894.8	892.4	891.8	893.0	894.3	895.5	896.7	895.5	894.3	893.0
155°	917.5	915.6	913.7	913.5	914.9	916.3	917.8	919.2	917.8	916.3	914.9
157.5°	934.7	933.4	932.0	932.0	933.2	934.4	935.6	936.8	935.6	934.4	933.2
160°	945.2	944.2	943.3	943.3	944.2	945.2	946.1	947.1	946.1	945.2	944.2
162.5°	954.0	953.2	952.4	952.4	953.4	954.4	955.3	956.3	955.3	954.4	953.4
165°	965.5	965.0	964.5	964.7	965.7	966.7	967.6	968.6	967.6	966.7	965.7
167.5°	974.5	974.1	973.6	973.9	974.9	975.8	976.8	977.7	976.8	975.8	974.9
170°	979.4	979.1	978.7	979.1	980.0	981.0	981.9	982.9	981.9	981.0	980.0
172.5°	982.8	982.5	982.2	982.5	983.4	984.4	985.3	986.3	985.3	984.4	983.4
175°	986.5	986.2	985.9	986.3	987.4	988.5	989.6	990.7	989.6	988.5	987.4
177.5°	987.8	987.6	987.5	987.9	988.8	989.7	990.6	991.5	990.6	989.7	988.8
180°	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6



TEST NUMBER: P331438

CATALOG NUMBER: SA2XXDIP-C1005D725U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1967.7	1964.0	1951.1	1944.4	1933.4	1922.9	1916.2	1919.3	1921.7	1920.5	1918.6
5°	1911.3	1896.7	1874.5	1855.3	1841.5	1816.3	1805.5	1800.2	1795.6	1790.2	1784.8
7.5°	1844.1	1821.2	1789.3	1762.0	1736.2	1704.8	1686.9	1676.2	1665.1	1653.0	1642.3
10°	1796.3	1764.1	1730.4	1692.1	1661.5	1633.1	1607.8	1590.9	1575.6	1561.1	1550.3
12.5°	1746.1	1709.0	1667.3	1614.9	1581.1	1540.5	1536.7	1507.0	1483.0	1474.0	1461.4
15°	1666.0	1613.9	1561.1	1499.0	1472.2	1435.4	1412.4	1389.4	1368.7	1354.1	1350.3
17.5°	1575.2	1507.7	1455.1	1410.5	1366.6	1328.9	1307.7	1289.3	1272.3	1252.8	1250.2
20°	1505.9	1447.6	1390.2	1351.1	1305.9	1267.5	1241.5	1223.1	1208.5	1197.0	1187.1
22.5°	1440.3	1376.5	1323.9	1281.2	1236.6	1205.6	1185.1	1167.3	1155.2	1142.5	1133.1
25°	1335.0	1285.2	1227.7	1179.4	1142.6	1122.7	1105.8	1090.5	1082.9	1074.4	1063.7
27.5°	1242.9	1187.5	1133.7	1096.3	1064.0	1046.4	1034.4	1024.0	1016.8	1011.9	1005.8
30°	1177.9	1121.9	1079.8	1043.0	1016.2	998.6	990.9	984.8	976.3	973.3	970.2
32.5°	1115.3	1064.9	1028.9	997.0	971.4	959.9	952.9	947.4	940.8	937.7	931.6
35°	1026.9	984.8	949.5	931.9	911.2	901.2	895.9	888.2	882.1	879.0	878.2
37.5°	943.7	907.1	883.9	861.2	852.5	846.4	839.0	833.8	832.0	831.5	830.7
40°	889.7	859.8	839.2	820.8	816.9	807.7	801.6	797.0	797.0	797.8	797.0
42.5°	840.7	813.9	795.6	779.7	775.2	769.7	763.6	763.3	764.5	767.1	764.5
45°	766.4	747.2	734.2	726.5	718.1	712.7	711.9	714.2	715.0	715.8	718.1
47.5°	698.0	685.3	673.5	665.0	661.4	660.4	659.5	663.5	667.2	668.6	672.1
50°	657.5	643.0	633.0	627.6	624.6	623.0	624.6	629.2	632.2	636.1	638.4
52.5°	612.2	601.9	595.0	590.9	589.6	590.6	590.9	596.1	601.0	602.4	603.4
55°	549.5	541.8	540.3	533.4	536.4	535.7	539.5	542.6	547.2	551.8	552.5
57.5°	486.9	480.8	476.7	477.3	478.2	481.6	484.8	490.2	495.1	500.0	500.4
60°	445.3	442.2	439.9	439.9	441.4	446.0	449.8	455.2	458.3	461.3	463.6
62.5°	407.2	404.2	401.9	403.1	407.1	409.8	414.3	417.2	420.3	423.3	424.4
65°	347.2	345.6	347.9	349.5	350.2	354.1	359.4	361.7	364.8	366.3	371.7
67.5°	291.8	292.1	291.8	294.0	298.4	299.3	304.4	309.8	310.4	313.3	316.8
70°	254.4	256.0	257.5	259.0	262.9	264.4	268.2	270.5	273.6	275.9	278.2
72.5°	220.1	220.4	221.9	221.6	224.8	228.2	231.4	233.7	236.8	239.7	242.0
75°	169.4	169.4	170.9	171.7	175.5	179.3	178.6	180.1	183.2	186.2	187.8
77.5°	123.7	122.0	123.7	124.5	125.7	128.9	129.5	131.7	135.2	134.1	135.8
80°	94.3	92.0	94.3	95.0	95.0	98.9	98.9	100.4	102.7	100.4	102.7
82.5°	67.3	66.2	67.9	68.1	69.3	69.4	70.7	71.0	73.3	72.2	73.3
85°	33.7	33.0	33.7	33.0	33.7	34.5	34.5	33.7	33.7	35.3	33.0
87.5°	12.0	11.7	11.3	11.5	11.2	10.8	10.4	10.5	10.7	9.6	9.7
90°	7.7	9.2	10.5	11.8	13.0	14.3	15.1	15.9	16.7	17.5	18.0
92.5°	13.8	14.1	14.7	15.3	16.0	16.6	17.0	17.4	17.8	18.2	18.6
95°	25.5	23.4	24.6	25.7	26.8	27.9	28.7	29.5	30.3	31.1	31.4
97.5°	33.1	27.0	29.6	32.2	34.8	37.3	38.0	38.6	39.2	39.9	40.3
100°	39.5	30.0	32.7	35.4	38.1	40.8	42.0	43.3	44.6	45.9	46.7
102.5°	145.9	132.3	109.7	87.1	64.5	41.9	43.6	45.2	46.9	48.5	49.6
105°	236.5	217.2	173.8	130.4	87.0	43.6	45.4	47.1	48.9	50.6	51.8
107.5°	293.4	269.3	217.2	165.2	113.1	61.1	59.3	57.5	55.7	54.0	53.4
110°	330.2	308.9	263.0	217.1	171.1	125.2	109.3	93.4	77.5	61.6	54.0



TEST NUMBER: P331438

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	365.3	361.1	349.8	338.4	327.1	315.7	257.8	199.8	141.8	83.8	55.0
115°	422.1	425.5	429.4	433.4	437.4	441.4	367.8	294.2	220.6	147.0	104.4
117.5°	475.0	477.9	480.7	483.4	486.1	488.9	471.1	453.3	435.4	417.6	389.9
120°	510.3	512.9	515.8	518.6	521.5	524.3	526.2	528.2	530.1	532.0	522.2
122.5°	542.8	545.6	548.8	551.9	555.0	558.1	559.2	560.4	561.5	562.7	561.2
125°	589.8	592.4	595.4	598.4	601.4	604.5	605.6	606.7	607.8	608.9	609.7
127.5°	634.9	637.2	639.5	641.7	644.0	646.2	647.9	649.5	651.1	652.7	653.6
130°	664.0	666.1	667.9	669.6	671.4	673.1	674.9	676.6	678.4	680.1	680.9
132.5°	691.1	693.0	694.8	696.5	698.3	700.0	701.5	703.0	704.5	706.0	706.7
135°	729.8	731.8	733.2	734.6	736.1	737.5	739.1	740.7	742.3	743.9	744.5
137.5°	764.4	766.1	767.7	769.3	770.9	772.6	774.1	775.7	777.2	778.8	779.3
140°	786.9	788.5	790.2	792.0	793.7	795.5	796.9	798.3	799.7	801.2	801.5
142.5°	807.0	808.6	810.6	812.6	814.6	816.6	817.9	819.2	820.5	821.8	822.1
145°	834.2	835.4	838.1	840.8	843.5	846.2	847.4	848.5	849.6	850.7	850.8
147.5°	860.6	861.6	864.3	866.9	869.6	872.3	873.1	873.9	874.8	875.6	875.7
150°	876.8	877.6	880.1	882.6	885.2	887.7	888.7	889.6	890.6	891.5	891.6
152.5°	891.8	892.4	894.8	897.2	899.6	902.0	903.0	903.9	904.9	905.9	905.8
155°	913.5	913.7	915.6	917.5	919.4	921.3	922.3	923.3	924.2	925.2	925.0
157.5°	932.0	932.0	933.4	934.7	936.0	937.4	938.5	939.5	940.6	941.7	941.6
160°	943.3	943.3	944.2	945.2	946.1	947.1	948.1	949.0	950.0	950.9	950.8
162.5°	952.4	952.4	953.2	954.0	954.9	955.7	956.8	957.8	958.9	960.0	959.9
165°	964.7	964.5	965.0	965.5	965.9	966.4	967.5	968.6	969.8	970.9	970.9
167.5°	973.9	973.6	974.1	974.5	975.0	975.4	976.5	977.7	978.8	979.9	979.7
170°	979.1	978.7	979.1	979.4	979.7	980.0	981.1	982.2	983.3	984.5	984.3
172.5°	982.5	982.2	982.5	982.8	983.1	983.4	984.6	985.7	986.8	987.9	987.7
175°	986.3	985.9	986.2	986.5	986.8	987.2	988.3	989.4	990.5	991.6	991.4
177.5°	987.9	987.5	987.6	987.8	987.9	988.0	988.9	989.8	990.7	991.6	991.5
180°	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6



TEST NUMBER: P331438

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1912.5	1911.3	1911.3	1905.8	1911.3	1911.3	1912.5	1918.6	1920.5	1921.7	1919.3
5°	1774.1	1771.8	1768.0	1771.8	1768.0	1771.8	1774.1	1784.8	1790.2	1795.6	1800.2
7.5°	1637.2	1628.0	1626.7	1617.6	1626.7	1628.0	1637.2	1642.3	1653.0	1665.1	1676.2
10°	1537.3	1531.2	1530.4	1515.8	1530.4	1531.2	1537.3	1550.3	1561.1	1575.6	1590.9
12.5°	1461.3	1446.6	1449.5	1441.0	1449.5	1446.6	1461.3	1461.4	1474.0	1483.0	1507.0
15°	1329.6	1329.6	1326.6	1313.5	1326.6	1329.6	1329.6	1350.3	1354.1	1368.7	1389.4
17.5°	1235.1	1233.5	1226.2	1229.8	1226.2	1233.5	1235.1	1250.2	1252.8	1272.3	1289.3
20°	1178.6	1174.1	1164.9	1164.9	1164.9	1174.1	1178.6	1187.1	1197.0	1208.5	1223.1
22.5°	1125.3	1125.0	1115.2	1118.3	1115.2	1125.0	1125.3	1133.1	1142.5	1155.2	1167.3
25°	1062.9	1056.8	1052.2	1054.5	1052.2	1056.8	1062.9	1063.7	1074.4	1082.9	1090.5
27.5°	1003.8	1000.4	1000.1	993.8	1000.1	1000.4	1003.8	1005.8	1011.9	1016.8	1024.0
30°	969.4	961.8	963.3	959.5	963.3	961.8	969.4	970.2	973.3	976.3	984.8
32.5°	930.2	927.4	925.9	922.7	925.9	927.4	930.2	931.6	937.7	940.8	947.4
35°	876.7	877.5	873.6	875.2	873.6	877.5	876.7	878.2	879.0	882.1	888.2
37.5°	830.0	832.4	830.6	831.0	830.6	832.4	830.0	830.7	831.5	832.0	833.8
40°	799.3	799.3	799.3	801.6	799.3	799.3	799.3	797.0	797.8	797.0	797.0
42.5°	769.9	768.7	767.4	767.3	767.4	768.7	769.9	764.5	767.1	764.5	763.3
45°	719.6	721.9	722.7	718.8	722.7	721.9	719.6	718.1	715.8	715.0	714.2
47.5°	674.1	674.4	674.1	677.5	674.1	674.4	674.1	672.1	668.6	667.2	663.5
50°	642.2	640.7	642.2	640.7	642.2	640.7	642.2	638.4	636.1	632.2	629.2
52.5°	608.5	608.8	607.9	607.6	607.9	608.8	608.5	603.4	602.4	601.0	596.1
55°	555.6	557.1	556.4	556.4	556.4	557.1	555.6	552.5	551.8	547.2	542.6
57.5°	500.9	502.3	503.3	500.0	503.3	502.3	500.9	500.4	500.0	495.1	490.2
60°	462.9	466.7	465.9	464.4	465.9	466.7	462.9	463.6	461.3	458.3	455.2
62.5°	427.9	429.3	429.2	428.9	429.2	429.3	427.9	424.4	423.3	420.3	417.2
65°	374.0	375.5	373.2	375.5	373.2	375.5	374.0	371.7	366.3	364.8	361.7
67.5°	315.9	316.4	318.0	319.1	318.0	316.4	315.9	316.8	313.3	310.4	309.8
70°	279.7	279.0	281.3	283.6	281.3	279.0	279.7	278.2	275.9	273.6	270.5
72.5°	241.7	243.4	242.6	244.3	242.6	243.4	241.7	242.0	239.7	236.8	233.7
75°	186.2	188.5	187.8	190.1	187.8	188.5	186.2	187.8	186.2	183.2	180.1
77.5°	134.6	134.9	134.6	135.8	134.6	134.9	134.6	135.8	134.1	135.2	131.7
80°	102.7	101.2	99.6	102.7	99.6	101.2	102.7	102.7	100.4	102.7	100.4
82.5°	71.4	72.3	70.8	70.8	70.8	72.3	71.4	73.3	72.2	73.3	71.0
85°	33.0	32.2	30.7	30.7	30.7	32.2	33.0	33.0	35.3	33.7	33.7
87.5°	9.8	9.3	9.3	8.8	9.3	9.3	9.8	9.7	9.6	10.7	10.5
90°	18.4	18.7	19.0	19.3	19.0	18.7	18.4	18.0	17.5	16.7	15.9
92.5°	18.7	18.9	19.1	19.3	19.1	18.9	18.7	18.6	18.2	17.8	17.4
95°	31.2	31.1	30.9	30.8	30.9	31.1	31.2	31.4	31.1	30.3	29.5
97.5°	40.5	40.7	40.9	41.1	40.9	40.7	40.5	40.3	39.9	39.2	38.6
100°	47.0	47.3	47.6	47.9	47.6	47.3	47.0	46.7	45.9	44.6	43.3
102.5°	50.0	50.5	50.9	51.4	50.9	50.5	50.0	49.6	48.5	46.9	45.2
105°	52.5	53.1	53.7	54.4	53.7	53.1	52.5	51.8	50.6	48.9	47.1
107.5°	54.0	54.7	55.3	55.9	55.3	54.7	54.0	53.4	54.0	55.7	57.5
110°	54.6	55.2	55.9	56.5	55.9	55.2	54.6	54.0	61.6	77.5	93.4



TEST NUMBER: P331438

CATALOG NUMBER: SA2XXDIP-C1005D725U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	55.6	56.1	56.6	57.1	56.6	56.1	55.6	55.0	83.8	141.8	199.8
115°	93.0	81.5	70.1	58.7	70.1	81.5	93.0	104.4	147.0	220.6	294.2
117.5°	352.3	314.7	277.1	239.5	277.1	314.7	352.3	389.9	417.6	435.4	453.3
120°	500.7	479.3	457.8	436.4	457.8	479.3	500.7	522.2	532.0	530.1	528.2
122.5°	557.0	552.8	548.7	544.5	548.7	552.8	557.0	561.2	562.7	561.5	560.4
125°	610.2	610.7	611.1	611.6	611.1	610.7	610.2	609.7	608.9	607.8	606.7
127.5°	653.7	653.8	653.9	654.0	653.9	653.8	653.7	653.6	652.7	651.1	649.5
130°	680.8	680.6	680.4	680.3	680.4	680.6	680.8	680.9	680.1	678.4	676.6
132.5°	706.5	706.4	706.2	706.0	706.2	706.4	706.5	706.7	706.0	704.5	703.0
135°	744.2	743.9	743.5	743.2	743.5	743.9	744.2	744.5	743.9	742.3	740.7
137.5°	778.8	778.2	777.7	777.1	777.7	778.2	778.8	779.3	778.8	777.2	775.7
140°	800.7	799.9	799.1	798.3	799.1	799.9	800.7	801.5	801.2	799.7	798.3
142.5°	821.3	820.5	819.7	818.9	819.7	820.5	821.3	822.1	821.8	820.5	819.2
145°	850.1	849.3	848.5	847.7	848.5	849.3	850.1	850.8	850.7	849.6	848.5
147.5°	875.0	874.3	873.7	873.0	873.7	874.3	875.0	875.7	875.6	874.8	873.9
150°	890.8	890.0	889.2	888.4	889.2	890.0	890.8	891.6	891.5	890.6	889.6
152.5°	904.8	903.7	902.7	901.6	902.7	903.7	904.8	905.8	905.9	904.9	903.9
155°	923.7	922.5	921.2	919.9	921.2	922.5	923.7	925.0	925.2	924.2	923.3
157.5°	940.4	939.1	937.9	936.7	937.9	939.1	940.4	941.6	941.7	940.6	939.5
160°	949.7	948.6	947.5	946.4	947.5	948.6	949.7	950.8	950.9	950.0	949.0
162.5°	958.5	957.1	955.8	954.4	955.8	957.1	958.5	959.9	960.0	958.9	957.8
165°	969.8	968.6	967.5	966.4	967.5	968.6	969.8	970.9	970.9	969.8	968.6
167.5°	978.3	976.9	975.4	974.0	975.4	976.9	978.3	979.7	979.9	978.8	977.7
170°	982.9	981.4	980.0	978.6	980.0	981.4	982.9	984.3	984.5	983.3	982.2
172.5°	986.3	984.9	983.4	982.0	983.4	984.9	986.3	987.7	987.9	986.8	985.7
175°	989.8	988.2	986.6	985.0	986.6	988.2	989.8	991.4	991.6	990.5	989.4
177.5°	990.3	989.2	988.0	986.9	988.0	989.2	990.3	991.5	991.6	990.7	989.8
180°	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6



TEST NUMBER: P331438

CATALOG NUMBER: SA2XXDIP-C1005D725U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1916.2	1922.9	1933.4	1944.4	1951.1	1964.0	1967.7	1973.8	1979.3	1992.2	2005.7
5°	1805.5	1816.3	1841.5	1855.3	1874.5	1896.7	1911.3	1926.6	1943.5	1972.6	1999.4
7.5°	1686.9	1704.8	1736.2	1762.0	1789.3	1821.2	1844.1	1874.5	1899.6	1940.7	1979.9
10°	1607.8	1633.1	1661.5	1692.1	1730.4	1764.1	1796.3	1834.6	1865.3	1914.3	1960.3
12.5°	1536.7	1540.5	1581.1	1614.9	1667.3	1709.0	1746.1	1795.4	1825.4	1883.7	1932.1
15°	1412.4	1435.4	1472.2	1499.0	1561.1	1613.9	1666.0	1717.4	1751.9	1823.9	1887.5
17.5°	1307.7	1328.9	1366.6	1410.5	1455.1	1507.7	1575.2	1629.3	1676.2	1758.5	1833.7
20°	1241.5	1267.5	1305.9	1351.1	1390.2	1447.6	1505.9	1568.0	1618.5	1711.3	1799.4
22.5°	1185.1	1205.6	1236.6	1281.2	1323.9	1376.5	1440.3	1507.9	1560.9	1661.0	1750.3
25°	1105.8	1122.7	1142.6	1179.4	1227.7	1285.2	1335.0	1409.3	1486.7	1580.2	1688.3
27.5°	1034.4	1046.4	1064.0	1096.3	1133.7	1187.5	1242.9	1313.4	1391.2	1492.7	1606.7
30°	990.9	998.6	1016.2	1043.0	1079.8	1121.9	1177.9	1245.3	1325.0	1427.7	1541.1
32.5°	952.9	959.9	971.4	997.0	1028.9	1064.9	1115.3	1182.8	1258.8	1359.7	1485.3
35°	895.9	901.2	911.2	931.9	949.5	984.8	1026.9	1088.2	1159.5	1256.1	1386.3
37.5°	839.0	846.4	852.5	861.2	883.9	907.1	943.7	995.5	1065.4	1162.9	1287.0
40°	801.6	807.7	816.9	820.8	839.2	859.8	889.7	937.2	1007.8	1096.6	1217.7
42.5°	763.6	769.7	775.2	779.7	795.6	813.9	840.7	881.5	944.0	1030.4	1150.3
45°	711.9	712.7	718.1	726.5	734.2	747.2	766.4	801.6	849.9	931.1	1039.9
47.5°	659.5	660.4	661.4	665.0	673.5	685.3	698.0	726.7	769.9	834.7	940.6
50°	624.6	623.0	624.6	627.6	633.0	643.0	657.5	678.2	713.5	774.0	871.3
52.5°	590.9	590.6	589.6	590.9	595.0	601.9	612.2	629.8	661.4	717.0	802.7
55°	539.5	535.7	536.4	533.4	540.3	541.8	549.5	564.0	591.6	629.9	710.4
57.5°	484.8	481.6	478.2	477.3	476.7	480.8	486.9	498.4	519.6	553.2	618.4
60°	449.8	446.0	441.4	439.9	439.9	442.2	445.3	453.7	473.6	503.5	557.1
62.5°	414.3	409.8	407.1	403.1	401.9	404.2	407.2	413.2	427.6	455.7	502.0
65°	359.4	354.1	350.2	349.5	347.9	345.6	347.2	353.3	364.8	387.0	423.8
67.5°	304.4	299.3	298.4	294.0	291.8	292.1	291.8	297.0	303.9	323.1	350.5
70°	268.2	264.4	262.9	259.0	257.5	256.0	254.4	259.0	265.9	282.0	305.8
72.5°	231.4	228.2	224.8	221.6	221.9	220.4	220.1	222.9	228.5	243.4	261.6
75°	178.6	179.3	175.5	171.7	170.9	169.4	169.4	171.7	174.0	185.5	200.0
77.5°	129.5	128.9	125.7	124.5	123.7	122.0	123.7	125.2	126.4	134.1	144.8
80°	98.9	98.9	95.0	95.0	94.3	92.0	94.3	92.7	95.8	103.5	111.1
82.5°	70.7	69.4	69.3	68.1	67.9	66.2	67.3	68.8	70.0	75.3	79.9
85°	34.5	34.5	33.7	33.0	33.7	33.0	33.7	34.5	35.3	37.6	41.4
87.5°	10.4	10.8	11.2	11.5	11.3	11.7	12.0	12.2	13.1	13.4	13.6
90°	15.1	14.3	13.0	11.8	10.5	9.2	7.7	6.0	4.2	2.5	0.7
92.5°	17.0	16.6	16.0	15.3	14.7	14.1	13.8	14.0	14.1	14.3	14.4
95°	28.7	27.9	26.8	25.7	24.6	23.4	25.5	30.8	36.0	41.3	46.5
97.5°	38.0	37.3	34.8	32.2	29.6	27.0	33.1	47.9	62.7	77.5	92.3
100°	42.0	40.8	38.1	35.4	32.7	30.0	39.5	61.3	83.1	104.8	126.6
102.5°	43.6	41.9	64.5	87.1	109.7	132.3	145.9	150.6	155.2	159.8	164.4
105°	45.4	43.6	87.0	130.4	173.8	217.2	236.5	231.8	227.0	222.2	217.5
107.5°	59.3	61.1	113.1	165.2	217.2	269.3	293.4	289.5	285.7	281.8	278.0
110°	109.3	125.2	171.1	217.1	263.0	308.9	330.2	326.9	323.6	320.2	316.9



TEST NUMBER: P331438

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	257.8	315.7	327.1	338.4	349.8	361.1	365.3	362.4	359.4	356.5	353.5
115°	367.8	441.4	437.4	433.4	429.4	425.5	422.1	419.4	416.7	414.0	411.3
117.5°	471.1	488.9	486.1	483.4	480.7	477.9	475.0	472.0	469.0	466.0	463.0
120°	526.2	524.3	521.5	518.6	515.8	512.9	510.3	507.9	505.5	503.1	500.7
122.5°	559.2	558.1	555.0	551.9	548.8	545.6	542.8	540.3	537.8	535.3	532.8
125°	605.6	604.5	601.4	598.4	595.4	592.4	589.8	587.8	585.7	583.6	581.6
127.5°	647.9	646.2	644.0	641.7	639.5	637.2	634.9	632.6	630.4	628.1	625.8
130°	674.9	673.1	671.4	669.6	667.9	666.1	664.0	661.4	658.9	656.4	653.8
132.5°	701.5	700.0	698.3	696.5	694.8	693.0	691.1	688.9	686.8	684.6	682.4
135°	739.1	737.5	736.1	734.6	733.2	731.8	729.8	727.3	724.7	722.2	719.6
137.5°	774.1	772.6	770.9	769.3	767.7	766.1	764.4	762.6	760.8	759.0	757.3
140°	796.9	795.5	793.7	792.0	790.2	788.5	786.9	785.7	784.4	783.1	781.9
142.5°	817.9	816.6	814.6	812.6	810.6	808.6	807.0	805.9	804.8	803.6	802.5
145°	847.4	846.2	843.5	840.8	838.1	835.4	834.2	834.3	834.5	834.6	834.8
147.5°	873.1	872.3	869.6	866.9	864.3	861.6	860.6	861.2	861.8	862.4	863.0
150°	888.7	887.7	885.2	882.6	880.1	877.6	876.8	878.0	879.1	880.2	881.3
152.5°	903.0	902.0	899.6	897.2	894.8	892.4	891.8	893.0	894.3	895.5	896.7
155°	922.3	921.3	919.4	917.5	915.6	913.7	913.5	914.9	916.3	917.8	919.2
157.5°	938.5	937.4	936.0	934.7	933.4	932.0	932.0	933.2	934.4	935.6	936.8
160°	948.1	947.1	946.1	945.2	944.2	943.3	943.3	944.2	945.2	946.1	947.1
162.5°	956.8	955.7	954.9	954.0	953.2	952.4	952.4	953.4	954.4	955.3	956.3
165°	967.5	966.4	965.9	965.5	965.0	964.5	964.7	965.7	966.7	967.6	968.6
167.5°	976.5	975.4	975.0	974.5	974.1	973.6	973.9	974.9	975.8	976.8	977.7
170°	981.1	980.0	979.7	979.4	979.1	978.7	979.1	980.0	981.0	981.9	982.9
172.5°	984.6	983.4	983.1	982.8	982.5	982.2	982.5	983.4	984.4	985.3	986.3
175°	988.3	987.2	986.8	986.5	986.2	985.9	986.3	987.4	988.5	989.6	990.7
177.5°	988.9	988.0	987.9	987.8	987.6	987.5	987.9	988.8	989.7	990.6	991.5
180°	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6



TEST NUMBER: P331438

CATALOG NUMBER: SA2XXDIP-C1005D725U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2004.5	2007.5	2017.3	2027.2	2038.2	2041.3	2046.2	2041.9	2040.6	2052.3	2060.9
5°	2010.1	2023.9	2050.8	2075.3	2096.0	2110.5	2125.9	2132.0	2143.5	2159.6	2179.5
7.5°	2003.7	2030.5	2072.7	2108.4	2147.3	2175.4	2197.3	2216.0	2238.7	2269.2	2302.4
10°	1996.3	2032.4	2083.7	2127.4	2174.9	2210.9	2240.8	2269.9	2303.7	2345.8	2389.5
12.5°	1982.9	2025.6	2089.8	2141.5	2202.5	2237.9	2278.2	2341.1	2377.2	2435.9	2497.4
15°	1955.7	2003.2	2092.9	2156.5	2225.5	2292.9	2367.3	2427.0	2486.8	2521.3	2607.9
17.5°	1915.4	1985.2	2084.5	2158.7	2246.3	2352.5	2436.1	2503.8	2572.8	2628.7	2672.1
20°	1882.9	1958.8	2072.2	2161.1	2265.3	2379.5	2475.3	2544.3	2604.1	2650.8	2677.6
22.5°	1841.8	1937.3	2047.7	2151.9	2285.0	2397.9	2498.6	2552.9	2602.8	2625.7	2635.9
25°	1777.2	1892.1	2017.0	2144.3	2294.5	2414.0	2506.0	2538.9	2553.5	2531.3	2494.5
27.5°	1707.4	1835.6	1981.6	2129.8	2288.6	2403.6	2469.5	2464.3	2439.6	2367.7	2310.2
30°	1655.3	1796.3	1953.4	2115.1	2274.5	2386.4	2424.7	2386.4	2330.5	2250.0	2168.0
32.5°	1600.8	1746.7	1923.4	2094.3	2248.8	2347.2	2355.5	2289.6	2203.0	2111.5	2009.2
35°	1518.1	1676.0	1866.8	2047.7	2194.1	2256.1	2219.4	2102.9	2000.2	1875.3	1735.8
37.5°	1424.8	1599.1	1790.5	1979.5	2112.1	2128.3	2037.0	1914.3	1769.5	1622.7	1458.5
40°	1354.9	1539.6	1736.6	1927.4	2044.6	2027.8	1911.3	1776.4	1604.0	1424.6	1272.1
42.5°	1292.4	1477.1	1677.7	1864.8	1958.8	1912.5	1776.4	1610.9	1425.6	1256.7	1117.0
45°	1184.0	1374.1	1579.5	1760.3	1814.0	1730.4	1550.3	1366.4	1184.0	1043.0	932.7
47.5°	1078.9	1266.8	1470.2	1629.1	1648.1	1535.8	1339.0	1149.7	992.9	878.1	800.2
50°	1001.6	1190.1	1391.7	1533.5	1527.3	1391.7	1189.4	1009.3	878.2	785.5	733.4
52.5°	932.3	1110.4	1304.0	1432.9	1400.4	1252.5	1059.4	899.5	791.8	719.3	672.1
55°	824.6	989.4	1173.3	1276.7	1217.0	1053.0	889.7	761.0	681.3	626.9	590.1
57.5°	717.6	872.1	1029.5	1093.3	1027.2	875.8	739.7	646.3	586.4	546.1	522.2
60°	651.4	786.3	926.5	981.7	902.8	767.9	660.6	577.1	528.8	495.8	474.4
62.5°	585.2	706.0	838.2	868.3	796.1	682.1	587.0	517.6	477.9	448.6	428.4
65°	495.1	593.9	694.3	714.2	647.6	559.4	484.3	439.1	403.9	382.4	366.3
67.5°	406.0	485.4	556.5	572.6	514.2	453.1	398.8	359.4	335.5	317.7	304.1
70°	353.3	416.1	474.4	487.4	440.7	386.2	344.9	313.4	292.0	276.7	263.6
72.5°	297.5	349.9	398.3	407.1	368.9	327.4	293.4	268.7	249.7	239.9	227.5
75°	227.6	258.3	295.8	298.1	272.8	247.5	221.5	205.4	195.4	183.2	177.0
77.5°	160.6	184.7	206.1	210.3	195.3	178.1	163.5	150.8	142.4	136.7	131.0
80°	122.6	141.8	151.0	156.3	145.6	133.3	124.9	116.5	111.1	107.3	103.5
82.5°	87.7	99.5	108.1	112.2	106.4	99.0	90.6	85.8	81.7	78.5	77.1
85°	44.4	49.8	55.2	56.7	55.2	52.1	47.5	47.5	45.2	44.4	44.4
87.5°	15.8	18.6	19.0	21.2	20.2	20.5	20.7	20.4	20.0	19.6	19.1
90°	2.5	4.2	6.0	7.7	9.2	10.5	11.8	13.0	14.3	15.1	15.9
92.5°	14.3	14.1	14.0	13.8	14.1	14.7	15.3	16.0	16.6	17.0	17.4
95°	41.3	36.0	30.8	25.5	23.4	24.6	25.7	26.8	27.9	28.7	29.5
97.5°	77.5	62.7	47.9	33.1	27.0	29.6	32.2	34.8	37.3	38.0	38.6
100°	104.8	83.1	61.3	39.5	30.0	32.7	35.4	38.1	40.8	42.0	43.3
102.5°	159.8	155.2	150.6	145.9	132.3	109.7	87.1	64.5	41.9	43.6	45.2
105°	222.2	227.0	231.8	236.5	217.2	173.8	130.4	87.0	43.6	45.4	47.1
107.5°	281.8	285.7	289.5	293.4	269.3	217.2	165.2	113.1	61.1	59.3	57.5
110°	320.2	323.6	326.9	330.2	308.9	263.0	217.1	171.1	125.2	109.3	93.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	356.5	359.4	362.4	365.3	361.1	349.8	338.4	327.1	315.7	257.8	199.8
115°	414.0	416.7	419.4	422.1	425.5	429.4	433.4	437.4	441.4	367.8	294.2
117.5°	466.0	469.0	472.0	475.0	477.9	480.7	483.4	486.1	488.9	471.1	453.3
120°	503.1	505.5	507.9	510.3	512.9	515.8	518.6	521.5	524.3	526.2	528.2
122.5°	535.3	537.8	540.3	542.8	545.6	548.8	551.9	555.0	558.1	559.2	560.4
125°	583.6	585.7	587.8	589.8	592.4	595.4	598.4	601.4	604.5	605.6	606.7
127.5°	628.1	630.4	632.6	634.9	637.2	639.5	641.7	644.0	646.2	647.9	649.5
130°	656.4	658.9	661.4	664.0	666.1	667.9	669.6	671.4	673.1	674.9	676.6
132.5°	684.6	686.8	688.9	691.1	693.0	694.8	696.5	698.3	700.0	701.5	703.0
135°	722.2	724.7	727.3	729.8	731.8	733.2	734.6	736.1	737.5	739.1	740.7
137.5°	759.0	760.8	762.6	764.4	766.1	767.7	769.3	770.9	772.6	774.1	775.7
140°	783.1	784.4	785.7	786.9	788.5	790.2	792.0	793.7	795.5	796.9	798.3
142.5°	803.6	804.8	805.9	807.0	808.6	810.6	812.6	814.6	816.6	817.9	819.2
145°	834.6	834.5	834.3	834.2	835.4	838.1	840.8	843.5	846.2	847.4	848.5
147.5°	862.4	861.8	861.2	860.6	861.6	864.3	866.9	869.6	872.3	873.1	873.9
150°	880.2	879.1	878.0	876.8	877.6	880.1	882.6	885.2	887.7	888.7	889.6
152.5°	895.5	894.3	893.0	891.8	892.4	894.8	897.2	899.6	902.0	903.0	903.9
155°	917.8	916.3	914.9	913.5	913.7	915.6	917.5	919.4	921.3	922.3	923.3
157.5°	935.6	934.4	933.2	932.0	932.0	933.4	934.7	936.0	937.4	938.5	939.5
160°	946.1	945.2	944.2	943.3	943.3	944.2	945.2	946.1	947.1	948.1	949.0
162.5°	955.3	954.4	953.4	952.4	952.4	953.2	954.0	954.9	955.7	956.8	957.8
165°	967.6	966.7	965.7	964.7	964.5	965.0	965.5	965.9	966.4	967.5	968.6
167.5°	976.8	975.8	974.9	973.9	973.6	974.1	974.5	975.0	975.4	976.5	977.7
170°	981.9	981.0	980.0	979.1	978.7	979.1	979.4	979.7	980.0	981.1	982.2
172.5°	985.3	984.4	983.4	982.5	982.2	982.5	982.8	983.1	983.4	984.6	985.7
175°	989.6	988.5	987.4	986.3	985.9	986.2	986.5	986.8	987.2	988.3	989.4
177.5°	990.6	989.7	988.8	987.9	987.5	987.6	987.8	987.9	988.0	988.9	989.8
180°	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2068.2	2076.8	2076.8	2078.0	2087.8	2086.6	2086.0
5°	2201.0	2214.0	2215.5	2229.3	2238.5	2235.4	2227.0
7.5°	2326.2	2350.4	2368.8	2379.1	2391.2	2398.7	2395.3
10°	2425.5	2460.8	2482.2	2496.8	2514.4	2527.4	2522.8
12.5°	2515.6	2557.6	2587.1	2612.0	2614.3	2631.0	2619.7
15°	2656.2	2700.6	2705.2	2723.6	2738.2	2736.6	2737.4
17.5°	2702.6	2716.9	2719.8	2720.2	2720.4	2715.0	2703.4
20°	2686.1	2680.7	2667.7	2657.7	2640.1	2637.8	2622.5
22.5°	2607.6	2590.6	2557.9	2536.3	2508.9	2501.7	2497.4
25°	2453.1	2415.5	2363.4	2313.6	2299.8	2273.0	2280.7
27.5°	2241.1	2182.6	2126.2	2085.7	2049.1	2008.9	2020.4
30°	2092.1	2026.2	1946.5	1885.2	1846.1	1807.8	1800.9
32.5°	1914.3	1817.8	1728.9	1674.9	1615.0	1590.8	1564.3
35°	1607.8	1513.5	1425.4	1349.5	1305.9	1272.1	1241.5
37.5°	1332.1	1223.6	1152.4	1091.0	1059.4	1040.1	1045.0
40°	1161.0	1066.0	1013.9	967.1	938.0	924.2	927.3
42.5°	1022.5	951.3	908.4	876.4	855.9	848.2	846.4
45°	865.2	825.4	790.1	771.7	761.8	753.3	748.0
47.5°	757.9	725.4	705.5	694.6	685.9	677.3	677.1
50°	693.5	672.1	658.3	646.8	639.9	633.8	639.1
52.5°	644.5	624.9	611.1	600.8	598.2	592.7	592.5
55°	571.7	556.4	546.4	537.2	532.6	529.5	525.7
57.5°	505.5	490.9	481.7	475.9	467.2	464.1	462.9
60°	458.3	446.8	437.6	429.9	426.1	420.0	420.0
62.5°	414.7	403.3	394.7	388.8	382.6	380.1	380.7
65°	351.8	342.6	334.1	328.0	326.5	321.9	323.4
67.5°	293.8	287.7	278.8	275.4	272.5	270.1	268.2
70°	255.2	249.1	244.5	239.9	237.6	237.6	237.6
72.5°	222.7	215.3	212.6	206.8	208.1	205.7	203.2
75°	172.4	167.8	165.5	163.2	159.4	159.4	159.4
77.5°	126.9	125.5	122.8	120.3	119.4	118.6	118.9
80°	98.1	97.3	95.8	95.8	94.3	93.5	92.0
82.5°	75.4	73.4	72.5	71.9	71.6	71.4	71.1
85°	42.9	41.4	41.4	42.1	40.6	40.6	41.4
87.5°	19.9	20.1	19.5	19.6	20.3	19.7	19.8
90°	16.7	17.5	18.0	18.4	18.7	19.0	19.3
92.5°	17.8	18.2	18.6	18.7	18.9	19.1	19.3
95°	30.3	31.1	31.4	31.2	31.1	30.9	30.8
97.5°	39.2	39.9	40.3	40.5	40.7	40.9	41.1
100°	44.6	45.9	46.7	47.0	47.3	47.6	47.9
102.5°	46.9	48.5	49.6	50.0	50.5	50.9	51.4
105°	48.9	50.6	51.8	52.5	53.1	53.7	54.4
107.5°	55.7	54.0	53.4	54.0	54.7	55.3	55.9
110°	77.5	61.6	54.0	54.6	55.2	55.9	56.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	141.8	83.8	55.0	55.6	56.1	56.6	57.1
115°	220.6	147.0	104.4	93.0	81.5	70.1	58.7
117.5°	435.4	417.6	389.9	352.3	314.7	277.1	239.5
120°	530.1	532.0	522.2	500.7	479.3	457.8	436.4
122.5°	561.5	562.7	561.2	557.0	552.8	548.7	544.5
125°	607.8	608.9	609.7	610.2	610.7	611.1	611.6
127.5°	651.1	652.7	653.6	653.7	653.8	653.9	654.0
130°	678.4	680.1	680.9	680.8	680.6	680.4	680.3
132.5°	704.5	706.0	706.7	706.5	706.4	706.2	706.0
135°	742.3	743.9	744.5	744.2	743.9	743.5	743.2
137.5°	777.2	778.8	779.3	778.8	778.2	777.7	777.1
140°	799.7	801.2	801.5	800.7	799.9	799.1	798.3
142.5°	820.5	821.8	822.1	821.3	820.5	819.7	818.9
145°	849.6	850.7	850.8	850.1	849.3	848.5	847.7
147.5°	874.8	875.6	875.7	875.0	874.3	873.7	873.0
150°	890.6	891.5	891.6	890.8	890.0	889.2	888.4
152.5°	904.9	905.9	905.8	904.8	903.7	902.7	901.6
155°	924.2	925.2	925.0	923.7	922.5	921.2	919.9
157.5°	940.6	941.7	941.6	940.4	939.1	937.9	936.7
160°	950.0	950.9	950.8	949.7	948.6	947.5	946.4
162.5°	958.9	960.0	959.9	958.5	957.1	955.8	954.4
165°	969.8	970.9	970.9	969.8	968.6	967.5	966.4
167.5°	978.8	979.9	979.7	978.3	976.9	975.4	974.0
170°	983.3	984.5	984.3	982.9	981.4	980.0	978.6
172.5°	986.8	987.9	987.7	986.3	984.9	983.4	982.0
175°	990.5	991.6	991.4	989.8	988.2	986.6	985.0
177.5°	990.7	991.6	991.5	990.3	989.2	988.0	986.9
180°	988.6	988.6	988.6	988.6	988.6	988.6	988.6

(END OF REPORT)