

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: P331394

Luminaire Tested: **SA2XXDIP-C865D725U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331394
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C865D725U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6402.7 lumens
Efficiency: N/A
Efficacy: 117.7 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

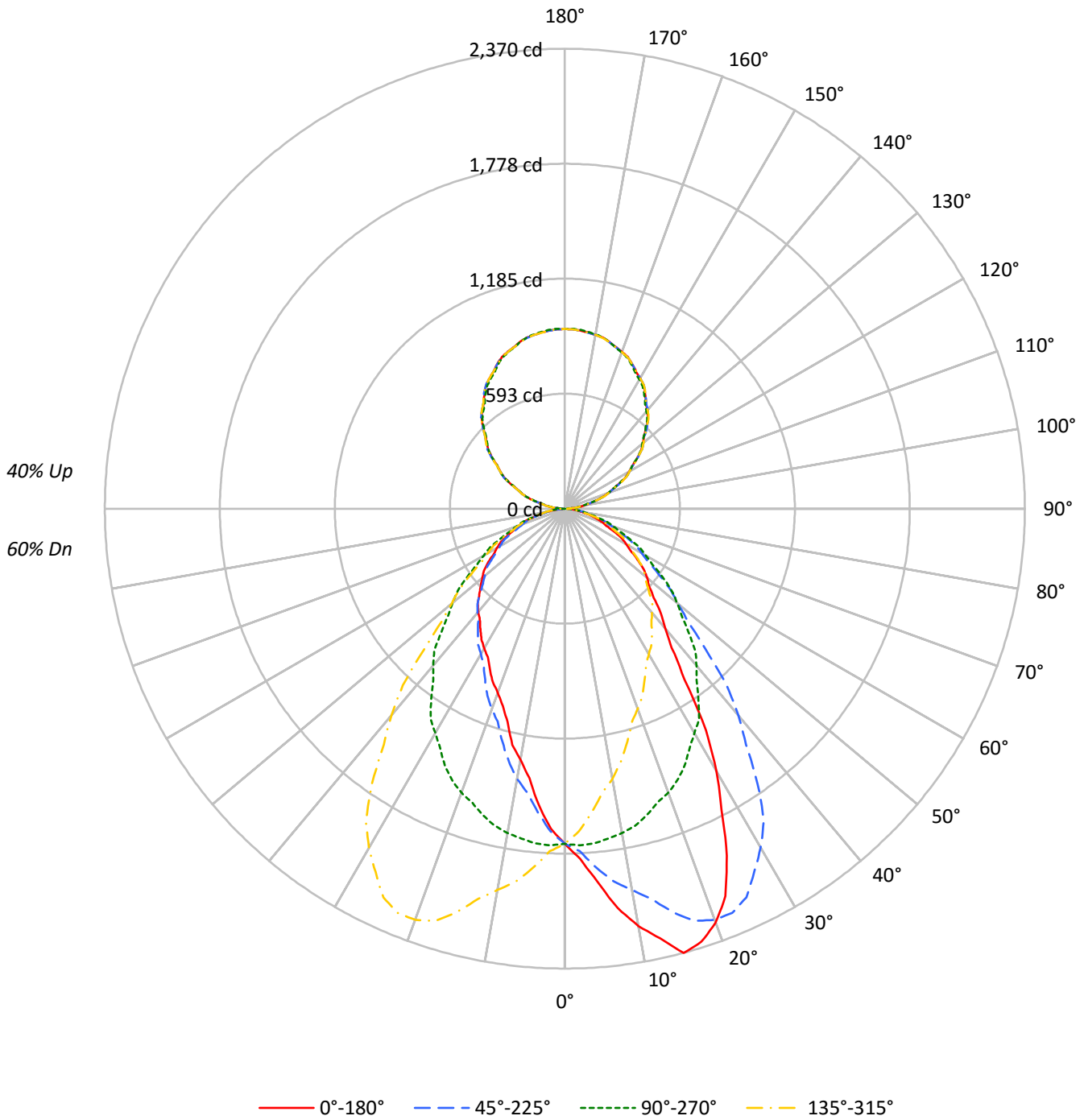
Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60				
1	100	96	93	89	94	90	87	84	79	76	74	68	66	65	58	57	56	51				
2	92	85	79	74	86	79	74	70	70	66	62	60	57	55	52	50	48	44				
3	84	75	68	62	79	70	64	59	62	57	53	54	50	47	47	44	41	38				
4	77	67	59	53	72	63	56	51	55	50	46	48	44	41	42	39	36	33				
5	71	60	52	46	67	56	49	44	50	44	40	44	39	36	38	35	32	29				
6	66	54	46	40	62	51	44	39	45	39	35	40	35	32	35	31	28	26				
7	61	49	41	36	57	46	39	34	41	35	31	36	32	28	32	28	26	23				
8	57	45	37	32	53	42	35	31	38	32	28	34	29	26	30	26	23	21				
9	53	41	34	29	50	39	32	27	35	29	25	31	26	23	27	24	21	19				
10	50	38	31	26	47	36	29	25	32	27	23	29	24	21	25	22	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27876	27876	27876	27876
5°	31253	28058	24864	28058
10°	35813	27829	21518	27829
15°	39619	27318	19010	27318
20°	39015	26770	17330	26770
25°	35179	26042	16265	26042
30°	29071	24878	15489	24878
35°	21187	23660	14937	23660
40°	16923	22223	14629	22223
45°	14787	20559	14212	20559
50°	13901	18952	13933	18952
55°	12814	17315	13560	17315
60°	11741	15578	12984	15578
65°	10697	14017	12420	14017
70°	9711	12500	11589	12500
75°	8609	10805	10268	10805
80°	7401	8945	8266	8945
85°	6632	6632	4909	6632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	2.6
10°-20°	478.0	7.5
20°-30°	693.8	10.8
30°-40°	732.1	11.4
40°-50°	648.2	10.1
50°-60°	517.3	8.1
60°-70°	351.6	5.5
70°-80°	180.3	2.8
80°-90°	47.2	0.7
90°-100°	58.7	0.9
100°-110°	182.3	2.8
110°-120°	311.6	4.9
120°-130°	409.8	6.4
130°-140°	459.9	7.2
140°-150°	450.9	7.0
150°-160°	378.2	5.9
160°-170°	250.9	3.9
170°-180°	87.7	1.4
0°-30°	1336.2	20.9
0°-40°	2068.3	32.3
0°-60°	3233.8	50.5
0°-90°	3812.8	59.5
90°-120°	552.6	8.6
90°-150°	1873.2	29.3
90°-180°	2590.0	40.5
0°-180°	6402.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1726	1726	1726	1726	1726	
5°	1928	1731	1534	1731	1928	193
15°	2370	1634	1137	1634	2370	654
25°	1975	1462	913	1462	1975	893
35°	1075	1200	758	1200	1075	699
45°	648	900	622	900	648	509
55°	455	615	482	615	455	408
65°	280	367	325	367	280	278
75°	138	173	165	173	138	147
85°	36	36	26	36	36	40
90°	27	1	27	1	27	13
95°	48	41	48	41	48	54
105°	174	168	174	168	174	182
115°	313	313	313	313	313	309
125°	456	455	456	455	456	407
135°	596	589	596	589	596	458
145°	722	714	722	714	722	451
155°	823	817	823	817	823	379
165°	890	889	890	889	890	251
175°	922	925	922	925	922	88
180°	926	926	926	926	926	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1806.2	1806.7	1807.8	1799.3	1798.2	1798.2	1790.8	1784.4	1777.0	1766.9	1768.0
5°	1928.3	1935.6	1938.2	1930.3	1918.3	1917.0	1905.7	1887.1	1869.9	1855.9	1846.0
7.5°	2074.0	2076.9	2070.4	2059.9	2051.0	2035.1	2014.1	1993.6	1964.8	1938.4	1918.7
10°	2184.4	2188.4	2177.1	2161.8	2149.2	2130.6	2100.1	2068.9	2031.1	1994.6	1965.4
12.5°	2268.3	2278.1	2263.6	2261.6	2240.0	2214.5	2178.2	2162.4	2109.2	2058.3	2027.0
15°	2370.2	2369.5	2370.9	2358.2	2342.3	2338.3	2299.9	2258.1	2183.1	2153.2	2101.5
17.5°	2340.7	2350.8	2355.5	2355.3	2354.9	2352.4	2340.1	2313.7	2276.1	2227.7	2167.9
20°	2270.7	2283.9	2285.9	2301.2	2309.8	2321.1	2325.7	2318.4	2295.2	2254.7	2203.0
22.5°	2162.4	2166.1	2172.3	2196.1	2214.8	2243.1	2257.8	2282.3	2273.4	2253.7	2210.4
25°	1974.7	1968.1	1991.3	2003.2	2046.4	2091.5	2124.0	2159.8	2191.7	2210.9	2198.3
27.5°	1749.4	1739.4	1774.2	1805.9	1840.9	1889.8	1940.5	2000.3	2050.1	2112.3	2133.7
30°	1559.3	1565.3	1598.5	1632.3	1685.4	1754.4	1811.5	1877.2	1948.2	2017.8	2066.3
32.5°	1354.4	1377.4	1398.4	1450.2	1497.0	1573.9	1657.5	1739.7	1828.2	1907.4	1982.4
35°	1074.9	1101.5	1130.7	1168.5	1234.2	1310.5	1392.1	1502.9	1623.7	1731.9	1820.8
37.5°	904.8	900.6	917.3	944.6	997.8	1059.4	1153.4	1262.9	1405.0	1532.1	1657.5
40°	802.9	800.2	812.2	837.4	877.9	923.0	1005.3	1101.5	1233.5	1388.8	1538.1
42.5°	732.8	734.4	741.0	758.8	786.6	823.7	885.3	967.2	1088.1	1234.3	1394.8
45°	647.6	652.3	659.6	668.2	684.1	714.6	749.1	807.5	903.1	1025.2	1183.1
47.5°	586.3	586.4	593.9	601.4	610.9	628.1	656.2	692.9	760.3	859.7	995.5
50°	553.4	548.8	554.1	560.0	570.0	581.9	600.5	635.0	680.1	760.4	873.9
52.5°	513.1	513.2	518.0	520.2	529.1	541.1	558.0	581.9	622.8	685.6	778.9
55°	455.2	458.5	461.2	465.1	473.1	481.7	495.0	510.9	542.8	589.9	658.9
57.5°	400.8	401.8	404.5	412.1	417.1	425.1	437.7	452.1	472.8	507.7	559.6
60°	363.6	363.6	368.9	372.2	378.9	386.8	396.8	410.7	429.3	457.8	499.7
62.5°	329.7	329.1	331.2	336.7	341.7	349.2	359.1	370.9	388.4	413.8	448.2
65°	280.0	278.7	282.7	284.0	289.3	296.6	304.6	317.2	331.1	349.7	380.2
67.5°	232.2	233.8	236.0	238.5	241.4	249.1	254.4	263.3	275.1	290.5	311.2
70°	205.7	205.7	205.7	207.7	211.7	215.7	221.0	228.3	239.5	252.8	271.4
72.5°	176.0	178.1	180.2	179.0	184.1	186.5	192.8	196.9	207.7	216.2	232.6
75°	138.0	138.0	138.0	141.3	143.3	145.3	149.3	153.3	158.6	169.2	177.8
77.5°	103.0	102.7	103.4	104.2	106.3	108.7	109.9	113.5	118.4	123.3	130.6
80°	79.6	81.0	81.6	82.9	82.9	84.3	84.9	89.6	92.9	96.2	100.9
82.5°	61.6	61.8	62.0	62.2	62.8	63.6	65.3	66.8	67.9	70.7	74.3
85°	35.8	35.2	35.2	36.5	35.8	35.8	37.2	38.5	38.5	39.1	41.1
87.5°	19.1	19.1	19.6	19.0	19.0	19.5	19.6	19.1	19.7	20.3	20.1
90°	26.6	26.4	26.2	26.1	25.9	26.0	26.3	26.7	27.0	27.4	23.5
92.5°	25.3	25.3	25.3	25.2	25.2	25.1	25.1	25.0	24.9	24.9	24.0
95°	48.5	48.8	49.2	49.5	49.9	50.0	50.0	50.0	50.0	50.0	49.7
97.5°	83.9	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	83.4
100°	107.1	107.3	107.4	107.6	107.8	107.9	107.9	107.9	107.9	107.9	107.3
102.5°	133.3	133.5	133.7	133.9	134.0	134.1	133.9	133.8	133.6	133.5	132.8
105°	173.5	173.5	173.5	173.5	173.5	173.4	173.0	172.7	172.3	172.0	171.6
107.5°	211.4	212.2	213.0	213.8	214.6	214.9	214.7	214.6	214.5	214.3	214.3
110°	240.7	241.3	241.8	242.3	242.8	243.1	243.1	243.1	243.1	243.1	243.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	268.9	269.3	269.6	270.0	270.4	270.8	271.2	271.6	272.1	272.5	272.6
115°	312.7	313.2	313.7	314.2	314.7	315.1	315.3	315.4	315.6	315.8	316.1
117.5°	354.4	354.9	355.4	356.0	356.5	356.9	357.4	357.8	358.2	358.6	359.6
120°	383.8	384.3	384.8	385.3	385.9	386.1	386.1	386.1	386.1	386.1	387.5
122.5°	412.6	412.9	413.3	413.7	414.1	414.5	414.9	415.3	415.7	416.1	417.1
125°	456.5	456.7	456.8	457.0	457.2	457.5	458.0	458.6	459.1	459.6	460.1
127.5°	496.5	497.1	497.6	498.2	498.7	499.3	499.9	500.6	501.2	501.8	502.4
130°	525.3	526.0	526.7	527.3	528.0	528.6	528.9	529.3	529.6	530.0	530.3
132.5°	552.8	553.3	553.9	554.4	555.0	555.7	556.4	557.2	558.0	558.7	558.6
135°	595.6	596.1	596.7	597.2	597.7	598.0	598.2	598.4	598.6	598.7	598.4
137.5°	634.4	635.1	635.8	636.5	637.2	637.6	637.7	637.9	638.0	638.1	637.7
140°	661.3	662.0	662.7	663.4	664.0	664.4	664.4	664.4	664.4	664.4	663.5
142.5°	685.7	686.4	687.0	687.7	688.4	688.7	688.6	688.4	688.3	688.2	687.6
145°	722.2	722.9	723.6	724.3	725.0	725.3	725.1	724.9	724.8	724.6	723.5
147.5°	754.9	755.6	756.2	756.9	757.6	757.7	757.3	756.9	756.5	756.2	755.5
150°	776.2	776.7	777.2	777.7	778.3	778.3	777.7	777.2	776.7	776.2	775.5
152.5°	796.2	796.8	797.5	798.2	798.8	798.8	798.2	797.5	796.8	796.2	795.3
155°	823.1	823.6	824.1	824.6	825.2	825.0	824.1	823.2	822.4	821.5	821.0
157.5°	846.2	847.0	847.9	848.7	849.5	849.4	848.2	847.0	845.8	844.6	844.3
160°	860.6	861.3	862.0	862.7	863.4	863.2	862.2	861.1	860.1	859.0	858.9
162.5°	873.1	873.9	874.8	875.6	876.4	876.3	875.1	873.9	872.7	871.5	871.4
165°	889.5	890.4	891.2	892.1	893.0	892.8	891.6	890.4	889.2	887.9	887.9
167.5°	903.0	903.9	904.8	905.7	906.6	906.4	905.2	904.0	902.8	901.5	901.6
170°	909.8	910.9	911.9	913.0	914.0	913.9	912.7	911.5	910.3	909.0	909.2
172.5°	915.5	916.5	917.5	918.6	919.6	919.5	918.3	917.1	915.9	914.7	914.9
175°	921.6	922.6	923.6	924.7	925.7	925.6	924.4	923.2	922.0	920.8	921.1
177.5°	924.4	925.2	926.0	926.9	927.7	927.7	926.9	926.0	925.2	924.4	924.6
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1771.7	1767.4	1764.8	1755.2	1746.7	1738.2	1735.6	1736.6	1725.0	1713.8	1709.0
5°	1840.7	1827.4	1814.8	1796.9	1775.7	1752.4	1740.5	1731.2	1708.0	1682.8	1668.2
7.5°	1902.5	1883.5	1859.3	1825.6	1794.6	1758.1	1734.9	1714.3	1680.4	1644.8	1623.0
10°	1940.2	1914.3	1883.1	1842.0	1804.2	1759.7	1728.5	1697.4	1657.5	1615.1	1588.5
12.5°	1972.6	1937.7	1907.0	1854.2	1809.5	1753.9	1716.9	1672.9	1631.0	1580.6	1554.6
15°	2049.7	1985.3	1926.9	1867.2	1812.1	1734.5	1693.4	1634.3	1579.2	1516.9	1487.0
17.5°	2109.3	2037.0	1945.0	1869.1	1804.8	1718.9	1658.5	1587.7	1522.6	1451.3	1410.7
20°	2143.3	2060.3	1961.4	1871.2	1794.2	1696.0	1630.3	1558.0	1481.7	1401.4	1357.6
22.5°	2163.4	2076.2	1978.4	1863.2	1773.0	1677.4	1594.8	1515.5	1438.2	1351.5	1305.6
25°	2169.8	2090.2	1986.7	1856.6	1746.5	1638.3	1538.8	1461.8	1368.2	1287.3	1220.3
27.5°	2138.2	2081.1	1981.6	1844.1	1715.8	1589.3	1478.4	1391.2	1292.5	1204.6	1137.2
30°	2099.5	2066.3	1969.4	1831.4	1691.4	1555.4	1433.3	1334.4	1236.2	1147.3	1078.3
32.5°	2039.5	2032.3	1947.1	1813.3	1665.4	1512.4	1386.0	1286.1	1177.3	1089.9	1024.1
35°	1921.6	1953.5	1899.7	1773.0	1616.4	1451.2	1314.5	1200.4	1087.6	1003.9	942.2
37.5°	1763.7	1842.8	1828.7	1713.9	1550.3	1384.6	1233.7	1114.4	1006.9	922.5	861.9
40°	1654.9	1755.7	1770.3	1668.8	1503.6	1333.1	1173.2	1054.4	949.5	872.6	811.5
42.5°	1538.1	1655.9	1696.0	1614.7	1452.6	1278.9	1119.0	996.0	892.2	817.4	763.2
45°	1342.4	1498.3	1570.6	1524.2	1367.6	1189.7	1025.2	900.4	806.2	735.9	694.1
47.5°	1159.3	1329.7	1427.0	1410.6	1272.9	1096.8	934.1	814.4	722.7	666.6	629.2
50°	1029.8	1205.0	1322.4	1327.8	1205.0	1030.5	867.3	754.5	670.2	617.8	587.2
52.5°	917.3	1084.5	1212.6	1240.7	1129.1	961.5	807.3	695.0	620.8	572.6	545.3
55°	770.4	911.7	1053.7	1105.5	1015.9	856.6	714.0	615.1	545.4	512.3	488.4
57.5°	640.5	758.3	889.4	946.6	891.4	755.1	621.3	535.5	478.9	449.9	431.6
60°	572.0	664.9	781.7	850.0	802.2	680.8	564.0	482.4	436.0	410.1	392.8
62.5°	508.3	590.6	689.3	751.8	725.8	611.3	506.7	434.6	394.5	370.3	357.8
65°	419.4	484.4	560.7	618.4	601.2	514.2	428.7	366.9	335.1	315.8	305.9
67.5°	345.3	392.3	445.2	495.8	481.9	420.3	351.5	303.5	279.8	263.2	257.2
70°	298.6	334.4	381.5	422.0	410.7	360.3	305.9	264.8	244.2	230.3	224.3
72.5°	254.0	283.5	319.4	352.5	344.9	303.0	257.6	226.5	210.7	197.9	193.0
75°	191.8	214.3	236.2	258.1	256.1	223.6	197.1	173.2	160.6	150.6	148.6
77.5°	141.6	154.2	169.1	182.1	178.5	159.9	139.1	125.4	116.1	109.5	108.4
80°	108.2	115.5	126.1	135.4	130.7	122.8	106.2	96.2	89.6	82.9	80.3
82.5°	78.4	85.7	92.1	97.1	93.6	86.1	75.9	69.1	65.2	60.6	59.6
85°	41.1	45.1	47.8	49.1	47.8	43.1	38.5	35.8	32.5	30.5	29.9
87.5°	19.9	19.1	18.3	18.8	16.8	16.4	13.8	11.8	11.7	11.6	11.0
90°	19.7	15.9	12.1	9.1	7.0	5.0	2.9	0.8	2.9	5.0	7.0
92.5°	23.0	22.1	21.2	20.0	18.5	17.0	15.4	13.9	15.4	17.0	18.5
95°	49.3	49.0	48.6	47.6	45.9	44.1	42.4	40.6	42.4	44.1	45.9
97.5°	82.8	82.1	81.5	80.4	78.8	77.3	75.8	74.3	75.8	77.3	78.8
100°	106.8	106.3	105.8	104.8	103.4	102.0	100.7	99.3	100.7	102.0	103.4
102.5°	132.2	131.5	130.9	130.0	128.9	127.8	126.6	125.5	126.6	127.8	128.9
105°	171.3	170.9	170.6	170.1	169.6	169.1	168.6	168.1	168.6	169.1	169.6
107.5°	214.3	214.3	214.3	213.9	213.2	212.4	211.7	210.9	211.7	212.4	213.2
110°	243.1	243.1	243.1	242.6	241.5	240.5	239.4	238.4	239.4	240.5	241.5



TEST NUMBER: P331394

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	272.8	272.9	273.0	272.6	271.5	270.5	269.5	268.4	269.5	270.5	271.5
115°	316.5	316.8	317.2	316.8	315.8	314.7	313.7	312.7	313.7	314.7	315.8
117.5°	360.6	361.5	362.5	362.3	360.9	359.5	358.1	356.7	358.1	359.5	360.9
120°	388.9	390.3	391.7	391.7	390.3	388.9	387.5	386.1	387.5	388.9	390.3
122.5°	418.1	419.1	420.0	419.7	418.0	416.4	414.7	413.0	414.7	416.4	418.0
125°	460.6	461.2	461.7	461.2	459.6	458.0	456.5	454.9	456.5	458.0	459.6
127.5°	503.1	503.7	504.3	503.6	501.7	499.7	497.7	495.7	497.7	499.7	501.7
130°	530.6	531.0	531.3	530.4	528.1	525.9	523.6	521.4	523.6	525.9	528.1
132.5°	558.6	558.5	558.4	557.5	555.6	553.8	552.0	550.1	552.0	553.8	555.6
135°	598.0	597.7	597.3	596.2	594.3	592.4	590.5	588.6	590.5	592.4	594.3
137.5°	637.2	636.8	636.3	635.3	633.8	632.2	630.6	629.1	630.6	632.2	633.8
140°	662.7	661.8	660.9	659.7	658.1	656.6	655.0	653.5	655.0	656.6	658.1
142.5°	687.0	686.4	685.8	684.7	683.2	681.6	680.0	678.5	680.0	681.6	683.2
145°	722.5	721.5	720.4	719.3	718.1	716.9	715.6	714.4	715.6	716.9	718.1
147.5°	754.8	754.1	753.4	752.3	750.8	749.4	747.9	746.5	747.9	749.4	750.8
150°	774.8	774.1	773.4	772.5	771.5	770.4	769.4	768.4	769.4	770.4	771.5
152.5°	794.5	793.7	792.8	791.9	790.9	789.8	788.8	787.7	788.8	789.8	790.9
155°	820.5	819.9	819.4	818.9	818.4	817.9	817.3	816.8	817.3	817.9	818.4
157.5°	844.0	843.7	843.4	843.1	842.7	842.4	842.0	841.7	842.0	842.4	842.7
160°	858.7	858.5	858.3	858.1	857.7	857.4	857.0	856.7	857.0	857.4	857.7
162.5°	871.2	871.0	870.8	870.7	870.6	870.6	870.5	870.4	870.5	870.6	870.6
165°	887.9	887.9	887.9	888.0	888.2	888.4	888.6	888.7	888.6	888.4	888.2
167.5°	901.6	901.7	901.7	902.0	902.5	903.0	903.5	904.0	903.5	903.0	902.5
170°	909.4	909.6	909.7	910.1	910.6	911.1	911.7	912.2	911.7	911.1	910.6
172.5°	915.0	915.2	915.4	915.7	916.2	916.8	917.3	917.8	917.3	916.8	916.2
175°	921.5	921.8	922.2	922.6	923.1	923.6	924.2	924.7	924.2	923.6	923.1
177.5°	924.9	925.2	925.5	925.8	926.2	926.7	927.1	927.5	927.1	926.7	926.2
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2



TEST NUMBER: P331394

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1703.7	1700.5	1689.4	1683.6	1674.0	1665.0	1659.1	1661.8	1663.9	1662.8	1661.3
5°	1654.9	1642.3	1623.0	1606.4	1594.5	1572.6	1563.3	1558.7	1554.7	1550.0	1545.4
7.5°	1596.8	1576.9	1549.2	1525.6	1503.3	1476.1	1460.6	1451.3	1441.8	1431.3	1422.0
10°	1555.4	1527.5	1498.3	1465.1	1438.6	1414.0	1392.1	1377.5	1364.3	1351.6	1342.4
12.5°	1511.8	1479.7	1443.6	1398.2	1369.0	1333.9	1330.5	1304.8	1284.1	1276.3	1265.4
15°	1442.6	1397.4	1351.6	1297.9	1274.7	1242.8	1222.9	1203.0	1185.1	1172.5	1169.2
17.5°	1363.9	1305.5	1259.9	1221.3	1183.2	1150.6	1132.3	1116.4	1101.6	1084.8	1082.5
20°	1303.9	1253.4	1203.7	1169.8	1130.7	1097.5	1074.9	1059.0	1046.4	1036.5	1027.8
22.5°	1247.1	1191.9	1146.3	1109.3	1070.7	1043.9	1026.1	1010.7	1000.2	989.2	981.1
25°	1155.9	1112.8	1063.0	1021.2	989.3	972.1	957.5	944.2	937.6	930.3	921.0
27.5°	1076.1	1028.2	981.7	949.3	921.3	906.0	895.7	886.6	880.4	876.1	870.8
30°	1019.9	971.4	934.9	903.1	879.9	864.6	858.0	852.7	845.4	842.7	840.1
32.5°	965.7	922.1	890.9	863.3	841.1	831.2	825.1	820.3	814.6	811.9	806.6
35°	889.2	852.7	822.1	806.9	789.0	780.3	775.7	769.1	763.7	761.1	760.4
37.5°	817.1	785.4	765.3	745.7	738.1	732.8	726.5	721.9	720.3	719.9	719.3
40°	770.4	744.5	726.6	710.7	707.3	699.4	694.1	690.1	690.1	690.8	690.1
42.5°	727.9	704.7	688.9	675.1	671.2	666.5	661.2	660.9	662.0	664.2	662.0
45°	663.5	647.0	635.7	629.0	621.7	617.1	616.4	618.4	619.1	619.8	621.7
47.5°	604.4	593.3	583.1	575.8	572.6	571.8	571.0	574.5	577.7	578.9	581.9
50°	569.3	556.7	548.1	543.4	540.8	539.5	540.8	544.8	547.4	550.7	552.7
52.5°	530.0	521.1	515.2	511.6	510.5	511.3	511.6	516.1	520.4	521.5	522.5
55°	475.8	469.1	467.8	461.8	464.5	463.8	467.1	469.8	473.8	477.8	478.4
57.5°	421.6	416.3	412.7	413.3	414.1	417.0	419.8	424.4	428.7	432.9	433.3
60°	385.5	382.9	380.9	380.9	382.2	386.2	389.5	394.1	396.8	399.5	401.4
62.5°	352.6	350.0	348.0	349.0	352.5	354.9	358.7	361.2	363.9	366.5	367.5
65°	300.6	299.3	301.3	302.6	303.2	306.6	311.2	313.2	315.8	317.2	321.8
67.5°	252.7	252.9	252.7	254.5	258.4	259.2	263.6	268.2	268.7	271.3	274.3
70°	220.3	221.6	223.0	224.3	227.6	228.9	232.2	234.2	236.9	238.9	240.9
72.5°	190.6	190.8	192.2	191.9	194.7	197.6	200.4	202.4	205.0	207.6	209.5
75°	146.6	146.6	148.0	148.6	152.0	155.3	154.6	155.9	158.6	161.2	162.6
77.5°	107.1	105.6	107.1	107.8	108.8	111.6	112.1	114.0	117.0	116.1	117.6
80°	81.6	79.6	81.6	82.3	82.3	85.6	85.6	86.9	88.9	86.9	88.9
82.5°	58.3	57.3	58.8	58.9	60.0	60.1	61.2	61.4	63.4	62.5	63.4
85°	29.2	28.5	29.2	28.5	29.2	29.9	29.9	29.2	29.2	30.5	28.5
87.5°	10.8	10.9	11.1	11.9	12.1	12.4	11.8	11.7	11.6	10.5	10.5
90°	9.1	12.1	15.9	19.7	23.5	27.4	27.0	26.7	26.3	26.0	25.9
92.5°	20.0	21.2	22.1	23.0	24.0	24.9	24.9	25.0	25.1	25.1	25.2
95°	47.6	48.6	49.0	49.3	49.7	50.0	50.0	50.0	50.0	50.0	49.9
97.5°	80.4	81.5	82.1	82.8	83.4	84.1	84.1	84.1	84.1	84.1	84.1
100°	104.8	105.8	106.3	106.8	107.3	107.9	107.9	107.9	107.9	107.9	107.8
102.5°	130.0	130.9	131.5	132.2	132.8	133.5	133.6	133.8	133.9	134.1	134.0
105°	170.1	170.6	170.9	171.3	171.6	172.0	172.3	172.7	173.0	173.4	173.5
107.5°	213.9	214.3	214.3	214.3	214.3	214.3	214.5	214.6	214.7	214.9	214.6
110°	242.6	243.1	243.1	243.1	243.1	243.1	243.1	243.1	243.1	243.1	242.8



TEST NUMBER: P331394

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	272.6	273.0	272.9	272.8	272.6	272.5	272.1	271.6	271.2	270.8	270.4
115°	316.8	317.2	316.8	316.5	316.1	315.8	315.6	315.4	315.3	315.1	314.7
117.5°	362.3	362.5	361.5	360.6	359.6	358.6	358.2	357.8	357.4	356.9	356.5
120°	391.7	391.7	390.3	388.9	387.5	386.1	386.1	386.1	386.1	386.1	385.9
122.5°	419.7	420.0	419.1	418.1	417.1	416.1	415.7	415.3	414.9	414.5	414.1
125°	461.2	461.7	461.2	460.6	460.1	459.6	459.1	458.6	458.0	457.5	457.2
127.5°	503.6	504.3	503.7	503.1	502.4	501.8	501.2	500.6	499.9	499.3	498.7
130°	530.4	531.3	531.0	530.6	530.3	530.0	529.6	529.3	528.9	528.6	528.0
132.5°	557.5	558.4	558.5	558.6	558.6	558.7	558.0	557.2	556.4	555.7	555.0
135°	596.2	597.3	597.7	598.0	598.4	598.7	598.6	598.4	598.2	598.0	597.7
137.5°	635.3	636.3	636.8	637.2	637.7	638.1	638.0	637.9	637.7	637.6	637.2
140°	659.7	660.9	661.8	662.7	663.5	664.4	664.4	664.4	664.4	664.4	664.0
142.5°	684.7	685.8	686.4	687.0	687.6	688.2	688.3	688.4	688.6	688.7	688.4
145°	719.3	720.4	721.5	722.5	723.5	724.6	724.8	724.9	725.1	725.3	725.0
147.5°	752.3	753.4	754.1	754.8	755.5	756.2	756.5	756.9	757.3	757.7	757.6
150°	772.5	773.4	774.1	774.8	775.5	776.2	776.7	777.2	777.7	778.3	778.3
152.5°	791.9	792.8	793.7	794.5	795.3	796.2	796.8	797.5	798.2	798.8	798.8
155°	818.9	819.4	819.9	820.5	821.0	821.5	822.4	823.2	824.1	825.0	825.2
157.5°	843.1	843.4	843.7	844.0	844.3	844.6	845.8	847.0	848.2	849.4	849.5
160°	858.1	858.3	858.5	858.7	858.9	859.0	860.1	861.1	862.2	863.2	863.4
162.5°	870.7	870.8	871.0	871.2	871.4	871.5	872.7	873.9	875.1	876.3	876.4
165°	888.0	887.9	887.9	887.9	887.9	887.9	889.2	890.4	891.6	892.8	893.0
167.5°	902.0	901.7	901.7	901.6	901.6	901.5	902.8	904.0	905.2	906.4	906.6
170°	910.1	909.7	909.6	909.4	909.2	909.0	910.3	911.5	912.7	913.9	914.0
172.5°	915.7	915.4	915.2	915.0	914.9	914.7	915.9	917.1	918.3	919.5	919.6
175°	922.6	922.2	921.8	921.5	921.1	920.8	922.0	923.2	924.4	925.6	925.7
177.5°	925.8	925.5	925.2	924.9	924.6	924.4	925.2	926.0	926.9	927.7	927.7
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2



TEST NUMBER: P331394

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1655.9	1654.9	1654.9	1650.1	1654.9	1654.9	1655.9	1661.3	1662.8	1663.9	1661.8
5°	1536.1	1534.1	1530.8	1534.1	1530.8	1534.1	1536.1	1545.4	1550.0	1554.7	1558.7
7.5°	1417.6	1409.6	1408.4	1400.6	1408.4	1409.6	1417.6	1422.0	1431.3	1441.8	1451.3
10°	1331.1	1325.8	1325.1	1312.5	1325.1	1325.8	1331.1	1342.4	1351.6	1364.3	1377.5
12.5°	1265.3	1252.5	1255.0	1247.7	1255.0	1252.5	1265.3	1265.4	1276.3	1284.1	1304.8
15°	1151.3	1151.3	1148.6	1137.3	1148.6	1151.3	1151.3	1169.2	1172.5	1185.1	1203.0
17.5°	1069.4	1068.0	1061.7	1064.9	1061.7	1068.0	1069.4	1082.5	1084.8	1101.6	1116.4
20°	1020.5	1016.6	1008.6	1008.6	1008.6	1016.6	1020.5	1027.8	1036.5	1046.4	1059.0
22.5°	974.4	974.1	965.6	968.2	965.6	974.1	974.4	981.1	989.2	1000.2	1010.7
25°	920.3	915.0	911.1	913.0	911.1	915.0	920.3	921.0	930.3	937.6	944.2
27.5°	869.1	866.2	865.9	860.5	865.9	866.2	869.1	870.8	876.1	880.4	886.6
30°	839.4	832.8	834.1	830.8	834.1	832.8	839.4	840.1	842.7	845.4	852.7
32.5°	805.4	803.0	801.7	798.9	801.7	803.0	805.4	806.6	811.9	814.6	820.3
35°	759.1	759.8	756.4	757.8	756.4	759.8	759.1	760.4	761.1	763.7	769.1
37.5°	718.6	720.7	719.2	719.6	719.2	720.7	718.6	719.3	719.9	720.3	721.9
40°	692.1	692.1	692.1	694.1	692.1	692.1	692.1	690.1	690.8	690.1	690.1
42.5°	666.6	665.5	664.5	664.3	664.5	665.5	666.6	662.0	664.2	662.0	660.9
45°	623.1	625.1	625.7	622.4	625.7	625.1	623.1	621.7	619.8	619.1	618.4
47.5°	583.7	583.9	583.7	586.6	583.7	583.9	583.7	581.9	578.9	577.7	574.5
50°	556.1	554.7	556.1	554.7	556.1	554.7	556.1	552.7	550.7	547.4	544.8
52.5°	526.9	527.1	526.3	526.1	526.3	527.1	526.9	522.5	521.5	520.4	516.1
55°	481.1	482.4	481.7	481.7	481.7	482.4	481.1	478.4	477.8	473.8	469.8
57.5°	433.7	434.9	435.8	432.9	435.8	434.9	433.7	433.3	432.9	428.7	424.4
60°	400.8	404.1	403.4	402.1	403.4	404.1	400.8	401.4	399.5	396.8	394.1
62.5°	370.5	371.7	371.6	371.3	371.6	371.7	370.5	367.5	366.5	363.9	361.2
65°	323.8	325.1	323.1	325.1	323.1	325.1	323.8	321.8	317.2	315.8	313.2
67.5°	273.5	273.9	275.4	276.3	275.4	273.9	273.5	274.3	271.3	268.7	268.2
70°	242.2	241.5	243.5	245.5	243.5	241.5	242.2	240.9	238.9	236.9	234.2
72.5°	209.3	210.7	210.1	211.5	210.1	210.7	209.3	209.5	207.6	205.0	202.4
75°	161.2	163.2	162.6	164.6	162.6	163.2	161.2	162.6	161.2	158.6	155.9
77.5°	116.5	116.8	116.5	117.6	116.5	116.8	116.5	117.6	116.1	117.0	114.0
80°	88.9	87.6	86.3	88.9	86.3	87.6	88.9	88.9	86.9	88.9	86.9
82.5°	61.8	62.6	61.3	61.3	61.3	62.6	61.8	63.4	62.5	63.4	61.4
85°	28.5	27.9	26.5	26.5	26.5	27.9	28.5	28.5	30.5	29.2	29.2
87.5°	10.5	10.0	10.1	9.6	10.1	10.0	10.5	10.5	10.5	11.6	11.7
90°	26.1	26.2	26.4	26.6	26.4	26.2	26.1	25.9	26.0	26.3	26.7
92.5°	25.2	25.3	25.3	25.3	25.3	25.3	25.2	25.2	25.1	25.1	25.0
95°	49.5	49.2	48.8	48.5	48.8	49.2	49.5	49.9	50.0	50.0	50.0
97.5°	84.1	84.0	84.0	83.9	84.0	84.0	84.1	84.1	84.1	84.1	84.1
100°	107.6	107.4	107.3	107.1	107.3	107.4	107.6	107.8	107.9	107.9	107.9
102.5°	133.9	133.7	133.5	133.3	133.5	133.7	133.9	134.0	134.1	133.9	133.8
105°	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.4	173.0	172.7
107.5°	213.8	213.0	212.2	211.4	212.2	213.0	213.8	214.6	214.9	214.7	214.6
110°	242.3	241.8	241.3	240.7	241.3	241.8	242.3	242.8	243.1	243.1	243.1



TEST NUMBER: P331394

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	270.0	269.6	269.3	268.9	269.3	269.6	270.0	270.4	270.8	271.2	271.6
115°	314.2	313.7	313.2	312.7	313.2	313.7	314.2	314.7	315.1	315.3	315.4
117.5°	356.0	355.4	354.9	354.4	354.9	355.4	356.0	356.5	356.9	357.4	357.8
120°	385.3	384.8	384.3	383.8	384.3	384.8	385.3	385.9	386.1	386.1	386.1
122.5°	413.7	413.3	412.9	412.6	412.9	413.3	413.7	414.1	414.5	414.9	415.3
125°	457.0	456.8	456.7	456.5	456.7	456.8	457.0	457.2	457.5	458.0	458.6
127.5°	498.2	497.6	497.1	496.5	497.1	497.6	498.2	498.7	499.3	499.9	500.6
130°	527.3	526.7	526.0	525.3	526.0	526.7	527.3	528.0	528.6	528.9	529.3
132.5°	554.4	553.9	553.3	552.8	553.3	553.9	554.4	555.0	555.7	556.4	557.2
135°	597.2	596.7	596.1	595.6	596.1	596.7	597.2	597.7	598.0	598.2	598.4
137.5°	636.5	635.8	635.1	634.4	635.1	635.8	636.5	637.2	637.6	637.7	637.9
140°	663.4	662.7	662.0	661.3	662.0	662.7	663.4	664.0	664.4	664.4	664.4
142.5°	687.7	687.0	686.4	685.7	686.4	687.0	687.7	688.4	688.7	688.6	688.4
145°	724.3	723.6	722.9	722.2	722.9	723.6	724.3	725.0	725.3	725.1	724.9
147.5°	756.9	756.2	755.6	754.9	755.6	756.2	756.9	757.6	757.7	757.3	756.9
150°	777.7	777.2	776.7	776.2	776.7	777.2	777.7	778.3	778.3	777.7	777.2
152.5°	798.2	797.5	796.8	796.2	796.8	797.5	798.2	798.8	798.8	798.2	797.5
155°	824.6	824.1	823.6	823.1	823.6	824.1	824.6	825.2	825.0	824.1	823.2
157.5°	848.7	847.9	847.0	846.2	847.0	847.9	848.7	849.5	849.4	848.2	847.0
160°	862.7	862.0	861.3	860.6	861.3	862.0	862.7	863.4	863.2	862.2	861.1
162.5°	875.6	874.8	873.9	873.1	873.9	874.8	875.6	876.4	876.3	875.1	873.9
165°	892.1	891.2	890.4	889.5	890.4	891.2	892.1	893.0	892.8	891.6	890.4
167.5°	905.7	904.8	903.9	903.0	903.9	904.8	905.7	906.6	906.4	905.2	904.0
170°	913.0	911.9	910.9	909.8	910.9	911.9	913.0	914.0	913.9	912.7	911.5
172.5°	918.6	917.5	916.5	915.5	916.5	917.5	918.6	919.6	919.5	918.3	917.1
175°	924.7	923.6	922.6	921.6	922.6	923.6	924.7	925.7	925.6	924.4	923.2
177.5°	926.9	926.0	925.2	924.4	925.2	926.0	926.9	927.7	927.7	926.9	926.0
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1659.1	1665.0	1674.0	1683.6	1689.4	1700.5	1703.7	1709.0	1713.8	1725.0	1736.6
5°	1563.3	1572.6	1594.5	1606.4	1623.0	1642.3	1654.9	1668.2	1682.8	1708.0	1731.2
7.5°	1460.6	1476.1	1503.3	1525.6	1549.2	1576.9	1596.8	1623.0	1644.8	1680.4	1714.3
10°	1392.1	1414.0	1438.6	1465.1	1498.3	1527.5	1555.4	1588.5	1615.1	1657.5	1697.4
12.5°	1330.5	1333.9	1369.0	1398.2	1443.6	1479.7	1511.8	1554.6	1580.6	1631.0	1672.9
15°	1222.9	1242.8	1274.7	1297.9	1351.6	1397.4	1442.6	1487.0	1516.9	1579.2	1634.3
17.5°	1132.3	1150.6	1183.2	1221.3	1259.9	1305.5	1363.9	1410.7	1451.3	1522.6	1587.7
20°	1074.9	1097.5	1130.7	1169.8	1203.7	1253.4	1303.9	1357.6	1401.4	1481.7	1558.0
22.5°	1026.1	1043.9	1070.7	1109.3	1146.3	1191.9	1247.1	1305.6	1351.5	1438.2	1515.5
25°	957.5	972.1	989.3	1021.2	1063.0	1112.8	1155.9	1220.3	1287.3	1368.2	1461.8
27.5°	895.7	906.0	921.3	949.3	981.7	1028.2	1076.1	1137.2	1204.6	1292.5	1391.2
30°	858.0	864.6	879.9	903.1	934.9	971.4	1019.9	1078.3	1147.3	1236.2	1334.4
32.5°	825.1	831.2	841.1	863.3	890.9	922.1	965.7	1024.1	1089.9	1177.3	1286.1
35°	775.7	780.3	789.0	806.9	822.1	852.7	889.2	942.2	1003.9	1087.6	1200.4
37.5°	726.5	732.8	738.1	745.7	765.3	785.4	817.1	861.9	922.5	1006.9	1114.4
40°	694.1	699.4	707.3	710.7	726.6	744.5	770.4	811.5	872.6	949.5	1054.4
42.5°	661.2	666.5	671.2	675.1	688.9	704.7	727.9	763.2	817.4	892.2	996.0
45°	616.4	617.1	621.7	629.0	635.7	647.0	663.5	694.1	735.9	806.2	900.4
47.5°	571.0	571.8	572.6	575.8	583.1	593.3	604.4	629.2	666.6	722.7	814.4
50°	540.8	539.5	540.8	543.4	548.1	556.7	569.3	587.2	617.8	670.2	754.5
52.5°	511.6	511.3	510.5	511.6	515.2	521.1	530.0	545.3	572.6	620.8	695.0
55°	467.1	463.8	464.5	461.8	467.8	469.1	475.8	488.4	512.3	545.4	615.1
57.5°	419.8	417.0	414.1	413.3	412.7	416.3	421.6	431.6	449.9	478.9	535.5
60°	389.5	386.2	382.2	380.9	380.9	382.9	385.5	392.8	410.1	436.0	482.4
62.5°	358.7	354.9	352.5	349.0	348.0	350.0	352.6	357.8	370.3	394.5	434.6
65°	311.2	306.6	303.2	302.6	301.3	299.3	300.6	305.9	315.8	335.1	366.9
67.5°	263.6	259.2	258.4	254.5	252.7	252.9	252.7	257.2	263.2	279.8	303.5
70°	232.2	228.9	227.6	224.3	223.0	221.6	220.3	224.3	230.3	244.2	264.8
72.5°	200.4	197.6	194.7	191.9	192.2	190.8	190.6	193.0	197.9	210.7	226.5
75°	154.6	155.3	152.0	148.6	148.0	146.6	146.6	148.6	150.6	160.6	173.2
77.5°	112.1	111.6	108.8	107.8	107.1	105.6	107.1	108.4	109.5	116.1	125.4
80°	85.6	85.6	82.3	82.3	81.6	79.6	81.6	80.3	82.9	89.6	96.2
82.5°	61.2	60.1	60.0	58.9	58.8	57.3	58.3	59.6	60.6	65.2	69.1
85°	29.9	29.9	29.2	28.5	29.2	28.5	29.2	29.9	30.5	32.5	35.8
87.5°	11.8	12.4	12.1	11.9	11.1	10.9	10.8	11.0	11.6	11.7	11.8
90°	27.0	27.4	23.5	19.7	15.9	12.1	9.1	7.0	5.0	2.9	0.8
92.5°	24.9	24.9	24.0	23.0	22.1	21.2	20.0	18.5	17.0	15.4	13.9
95°	50.0	50.0	49.7	49.3	49.0	48.6	47.6	45.9	44.1	42.4	40.6
97.5°	84.1	84.1	83.4	82.8	82.1	81.5	80.4	78.8	77.3	75.8	74.3
100°	107.9	107.9	107.3	106.8	106.3	105.8	104.8	103.4	102.0	100.7	99.3
102.5°	133.6	133.5	132.8	132.2	131.5	130.9	130.0	128.9	127.8	126.6	125.5
105°	172.3	172.0	171.6	171.3	170.9	170.6	170.1	169.6	169.1	168.6	168.1
107.5°	214.5	214.3	214.3	214.3	214.3	214.3	213.9	213.2	212.4	211.7	210.9
110°	243.1	243.1	243.1	243.1	243.1	243.1	242.6	241.5	240.5	239.4	238.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	272.1	272.5	272.6	272.8	272.9	273.0	272.6	271.5	270.5	269.5	268.4
115°	315.6	315.8	316.1	316.5	316.8	317.2	316.8	315.8	314.7	313.7	312.7
117.5°	358.2	358.6	359.6	360.6	361.5	362.5	362.3	360.9	359.5	358.1	356.7
120°	386.1	386.1	387.5	388.9	390.3	391.7	391.7	390.3	388.9	387.5	386.1
122.5°	415.7	416.1	417.1	418.1	419.1	420.0	419.7	418.0	416.4	414.7	413.0
125°	459.1	459.6	460.1	460.6	461.2	461.7	461.2	459.6	458.0	456.5	454.9
127.5°	501.2	501.8	502.4	503.1	503.7	504.3	503.6	501.7	499.7	497.7	495.7
130°	529.6	530.0	530.3	530.6	531.0	531.3	530.4	528.1	525.9	523.6	521.4
132.5°	558.0	558.7	558.6	558.6	558.5	558.4	557.5	555.6	553.8	552.0	550.1
135°	598.6	598.7	598.4	598.0	597.7	597.3	596.2	594.3	592.4	590.5	588.6
137.5°	638.0	638.1	637.7	637.2	636.8	636.3	635.3	633.8	632.2	630.6	629.1
140°	664.4	664.4	663.5	662.7	661.8	660.9	659.7	658.1	656.6	655.0	653.5
142.5°	688.3	688.2	687.6	687.0	686.4	685.8	684.7	683.2	681.6	680.0	678.5
145°	724.8	724.6	723.5	722.5	721.5	720.4	719.3	718.1	716.9	715.6	714.4
147.5°	756.5	756.2	755.5	754.8	754.1	753.4	752.3	750.8	749.4	747.9	746.5
150°	776.7	776.2	775.5	774.8	774.1	773.4	772.5	771.5	770.4	769.4	768.4
152.5°	796.8	796.2	795.3	794.5	793.7	792.8	791.9	790.9	789.8	788.8	787.7
155°	822.4	821.5	821.0	820.5	819.9	819.4	818.9	818.4	817.9	817.3	816.8
157.5°	845.8	844.6	844.3	844.0	843.7	843.4	843.1	842.7	842.4	842.0	841.7
160°	860.1	859.0	858.9	858.7	858.5	858.3	858.1	857.7	857.4	857.0	856.7
162.5°	872.7	871.5	871.4	871.2	871.0	870.8	870.7	870.6	870.6	870.5	870.4
165°	889.2	887.9	887.9	887.9	887.9	887.9	888.0	888.2	888.4	888.6	888.7
167.5°	902.8	901.5	901.6	901.6	901.7	901.7	902.0	902.5	903.0	903.5	904.0
170°	910.3	909.0	909.2	909.4	909.6	909.7	910.1	910.6	911.1	911.7	912.2
172.5°	915.9	914.7	914.9	915.0	915.2	915.4	915.7	916.2	916.8	917.3	917.8
175°	922.0	920.8	921.1	921.5	921.8	922.2	922.6	923.1	923.6	924.2	924.7
177.5°	925.2	924.4	924.6	924.9	925.2	925.5	925.8	926.2	926.7	927.1	927.5
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2



TEST NUMBER: P331394

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1735.6	1738.2	1746.7	1755.2	1764.8	1767.4	1771.7	1768.0	1766.9	1777.0	1784.4
5°	1740.5	1752.4	1775.7	1796.9	1814.8	1827.4	1840.7	1846.0	1855.9	1869.9	1887.1
7.5°	1734.9	1758.1	1794.6	1825.6	1859.3	1883.5	1902.5	1918.7	1938.4	1964.8	1993.6
10°	1728.5	1759.7	1804.2	1842.0	1883.1	1914.3	1940.2	1965.4	1994.6	2031.1	2068.9
12.5°	1716.9	1753.9	1809.5	1854.2	1907.0	1937.7	1972.6	2027.0	2058.3	2109.2	2162.4
15°	1693.4	1734.5	1812.1	1867.2	1926.9	1985.3	2049.7	2101.5	2153.2	2183.1	2258.1
17.5°	1658.5	1718.9	1804.8	1869.1	1945.0	2037.0	2109.3	2167.9	2227.7	2276.1	2313.7
20°	1630.3	1696.0	1794.2	1871.2	1961.4	2060.3	2143.3	2203.0	2254.7	2295.2	2318.4
22.5°	1594.8	1677.4	1773.0	1863.2	1978.4	2076.2	2163.4	2210.4	2253.7	2273.4	2282.3
25°	1538.8	1638.3	1746.5	1856.6	1986.7	2090.2	2169.8	2198.3	2210.9	2191.7	2159.8
27.5°	1478.4	1589.3	1715.8	1844.1	1981.6	2081.1	2138.2	2133.7	2112.3	2050.1	2000.3
30°	1433.3	1555.4	1691.4	1831.4	1969.4	2066.3	2099.5	2066.3	2017.8	1948.2	1877.2
32.5°	1386.0	1512.4	1665.4	1813.3	1947.1	2032.3	2039.5	1982.4	1907.4	1828.2	1739.7
35°	1314.5	1451.2	1616.4	1773.0	1899.7	1953.5	1921.6	1820.8	1731.9	1623.7	1502.9
37.5°	1233.7	1384.6	1550.3	1713.9	1828.7	1842.8	1763.7	1657.5	1532.1	1405.0	1262.9
40°	1173.2	1333.1	1503.6	1668.8	1770.3	1755.7	1654.9	1538.1	1388.8	1233.5	1101.5
42.5°	1119.0	1278.9	1452.6	1614.7	1696.0	1655.9	1538.1	1394.8	1234.3	1088.1	967.2
45°	1025.2	1189.7	1367.6	1524.2	1570.6	1498.3	1342.4	1183.1	1025.2	903.1	807.5
47.5°	934.1	1096.8	1272.9	1410.6	1427.0	1329.7	1159.3	995.5	859.7	760.3	692.9
50°	867.3	1030.5	1205.0	1327.8	1322.4	1205.0	1029.8	873.9	760.4	680.1	635.0
52.5°	807.3	961.5	1129.1	1240.7	1212.6	1084.5	917.3	778.9	685.6	622.8	581.9
55°	714.0	856.6	1015.9	1105.5	1053.7	911.7	770.4	658.9	589.9	542.8	510.9
57.5°	621.3	755.1	891.4	946.6	889.4	758.3	640.5	559.6	507.7	472.8	452.1
60°	564.0	680.8	802.2	850.0	781.7	664.9	572.0	499.7	457.8	429.3	410.7
62.5°	506.7	611.3	725.8	751.8	689.3	590.6	508.3	448.2	413.8	388.4	370.9
65°	428.7	514.2	601.2	618.4	560.7	484.4	419.4	380.2	349.7	331.1	317.2
67.5°	351.5	420.3	481.9	495.8	445.2	392.3	345.3	311.2	290.5	275.1	263.3
70°	305.9	360.3	410.7	422.0	381.5	334.4	298.6	271.4	252.8	239.5	228.3
72.5°	257.6	303.0	344.9	352.5	319.4	283.5	254.0	232.6	216.2	207.7	196.9
75°	197.1	223.6	256.1	258.1	236.2	214.3	191.8	177.8	169.2	158.6	153.3
77.5°	139.1	159.9	178.5	182.1	169.1	154.2	141.6	130.6	123.3	118.4	113.5
80°	106.2	122.8	130.7	135.4	126.1	115.5	108.2	100.9	96.2	92.9	89.6
82.5°	75.9	86.1	93.6	97.1	92.1	85.7	78.4	74.3	70.7	67.9	66.8
85°	38.5	43.1	47.8	49.1	47.8	45.1	41.1	41.1	39.1	38.5	38.5
87.5°	13.8	16.4	16.8	18.8	18.3	19.1	19.9	20.1	20.3	19.7	19.1
90°	2.9	5.0	7.0	9.1	12.1	15.9	19.7	23.5	27.4	27.0	26.7
92.5°	15.4	17.0	18.5	20.0	21.2	22.1	23.0	24.0	24.9	24.9	25.0
95°	42.4	44.1	45.9	47.6	48.6	49.0	49.3	49.7	50.0	50.0	50.0
97.5°	75.8	77.3	78.8	80.4	81.5	82.1	82.8	83.4	84.1	84.1	84.1
100°	100.7	102.0	103.4	104.8	105.8	106.3	106.8	107.3	107.9	107.9	107.9
102.5°	126.6	127.8	128.9	130.0	130.9	131.5	132.2	132.8	133.5	133.6	133.8
105°	168.6	169.1	169.6	170.1	170.6	170.9	171.3	171.6	172.0	172.3	172.7
107.5°	211.7	212.4	213.2	213.9	214.3	214.3	214.3	214.3	214.3	214.5	214.6
110°	239.4	240.5	241.5	242.6	243.1	243.1	243.1	243.1	243.1	243.1	243.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	269.5	270.5	271.5	272.6	273.0	272.9	272.8	272.6	272.5	272.1	271.6
115°	313.7	314.7	315.8	316.8	317.2	316.8	316.5	316.1	315.8	315.6	315.4
117.5°	358.1	359.5	360.9	362.3	362.5	361.5	360.6	359.6	358.6	358.2	357.8
120°	387.5	388.9	390.3	391.7	391.7	390.3	388.9	387.5	386.1	386.1	386.1
122.5°	414.7	416.4	418.0	419.7	420.0	419.1	418.1	417.1	416.1	415.7	415.3
125°	456.5	458.0	459.6	461.2	461.7	461.2	460.6	460.1	459.6	459.1	458.6
127.5°	497.7	499.7	501.7	503.6	504.3	503.7	503.1	502.4	501.8	501.2	500.6
130°	523.6	525.9	528.1	530.4	531.3	531.0	530.6	530.3	530.0	529.6	529.3
132.5°	552.0	553.8	555.6	557.5	558.4	558.5	558.6	558.6	558.7	558.0	557.2
135°	590.5	592.4	594.3	596.2	597.3	597.7	598.0	598.4	598.7	598.6	598.4
137.5°	630.6	632.2	633.8	635.3	636.3	636.8	637.2	637.7	638.1	638.0	637.9
140°	655.0	656.6	658.1	659.7	660.9	661.8	662.7	663.5	664.4	664.4	664.4
142.5°	680.0	681.6	683.2	684.7	685.8	686.4	687.0	687.6	688.2	688.3	688.4
145°	715.6	716.9	718.1	719.3	720.4	721.5	722.5	723.5	724.6	724.8	724.9
147.5°	747.9	749.4	750.8	752.3	753.4	754.1	754.8	755.5	756.2	756.5	756.9
150°	769.4	770.4	771.5	772.5	773.4	774.1	774.8	775.5	776.2	776.7	777.2
152.5°	788.8	789.8	790.9	791.9	792.8	793.7	794.5	795.3	796.2	796.8	797.5
155°	817.3	817.9	818.4	818.9	819.4	819.9	820.5	821.0	821.5	822.4	823.2
157.5°	842.0	842.4	842.7	843.1	843.4	843.7	844.0	844.3	844.6	845.8	847.0
160°	857.0	857.4	857.7	858.1	858.3	858.5	858.7	858.9	859.0	860.1	861.1
162.5°	870.5	870.6	870.6	870.7	870.8	871.0	871.2	871.4	871.5	872.7	873.9
165°	888.6	888.4	888.2	888.0	887.9	887.9	887.9	887.9	887.9	889.2	890.4
167.5°	903.5	903.0	902.5	902.0	901.7	901.7	901.6	901.6	901.5	902.8	904.0
170°	911.7	911.1	910.6	910.1	909.7	909.6	909.4	909.2	909.0	910.3	911.5
172.5°	917.3	916.8	916.2	915.7	915.4	915.2	915.0	914.9	914.7	915.9	917.1
175°	924.2	923.6	923.1	922.6	922.2	921.8	921.5	921.1	920.8	922.0	923.2
177.5°	927.1	926.7	926.2	925.8	925.5	925.2	924.9	924.6	924.4	925.2	926.0
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1790.8	1798.2	1798.2	1799.3	1807.8	1806.7	1806.2
5°	1905.7	1917.0	1918.3	1930.3	1938.2	1935.6	1928.3
7.5°	2014.1	2035.1	2051.0	2059.9	2070.4	2076.9	2074.0
10°	2100.1	2130.6	2149.2	2161.8	2177.1	2188.4	2184.4
12.5°	2178.2	2214.5	2240.0	2261.6	2263.6	2278.1	2268.3
15°	2299.9	2338.3	2342.3	2358.2	2370.9	2369.5	2370.2
17.5°	2340.1	2352.4	2354.9	2355.3	2355.5	2350.8	2340.7
20°	2325.7	2321.1	2309.8	2301.2	2285.9	2283.9	2270.7
22.5°	2257.8	2243.1	2214.8	2196.1	2172.3	2166.1	2162.4
25°	2124.0	2091.5	2046.4	2003.2	1991.3	1968.1	1974.7
27.5°	1940.5	1889.8	1840.9	1805.9	1774.2	1739.4	1749.4
30°	1811.5	1754.4	1685.4	1632.3	1598.5	1565.3	1559.3
32.5°	1657.5	1573.9	1497.0	1450.2	1398.4	1377.4	1354.4
35°	1392.1	1310.5	1234.2	1168.5	1130.7	1101.5	1074.9
37.5°	1153.4	1059.4	997.8	944.6	917.3	900.6	904.8
40°	1005.3	923.0	877.9	837.4	812.2	800.2	802.9
42.5°	885.3	823.7	786.6	758.8	741.0	734.4	732.8
45°	749.1	714.6	684.1	668.2	659.6	652.3	647.6
47.5°	656.2	628.1	610.9	601.4	593.9	586.4	586.3
50°	600.5	581.9	570.0	560.0	554.1	548.8	553.4
52.5°	558.0	541.1	529.1	520.2	518.0	513.2	513.1
55°	495.0	481.7	473.1	465.1	461.2	458.5	455.2
57.5°	437.7	425.1	417.1	412.1	404.5	401.8	400.8
60°	396.8	386.8	378.9	372.2	368.9	363.6	363.6
62.5°	359.1	349.2	341.7	336.7	331.2	329.1	329.7
65°	304.6	296.6	289.3	284.0	282.7	278.7	280.0
67.5°	254.4	249.1	241.4	238.5	236.0	233.8	232.2
70°	221.0	215.7	211.7	207.7	205.7	205.7	205.7
72.5°	192.8	186.5	184.1	179.0	180.2	178.1	176.0
75°	149.3	145.3	143.3	141.3	138.0	138.0	138.0
77.5°	109.9	108.7	106.3	104.2	103.4	102.7	103.0
80°	84.9	84.3	82.9	82.9	81.6	81.0	79.6
82.5°	65.3	63.6	62.8	62.2	62.0	61.8	61.6
85°	37.2	35.8	35.8	36.5	35.2	35.2	35.8
87.5°	19.6	19.5	19.0	19.0	19.6	19.1	19.1
90°	26.3	26.0	25.9	26.1	26.2	26.4	26.6
92.5°	25.1	25.1	25.2	25.2	25.3	25.3	25.3
95°	50.0	50.0	49.9	49.5	49.2	48.8	48.5
97.5°	84.1	84.1	84.1	84.1	84.0	84.0	83.9
100°	107.9	107.9	107.8	107.6	107.4	107.3	107.1
102.5°	133.9	134.1	134.0	133.9	133.7	133.5	133.3
105°	173.0	173.4	173.5	173.5	173.5	173.5	173.5
107.5°	214.7	214.9	214.6	213.8	213.0	212.2	211.4
110°	243.1	243.1	242.8	242.3	241.8	241.3	240.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	271.2	270.8	270.4	270.0	269.6	269.3	268.9
115°	315.3	315.1	314.7	314.2	313.7	313.2	312.7
117.5°	357.4	356.9	356.5	356.0	355.4	354.9	354.4
120°	386.1	386.1	385.9	385.3	384.8	384.3	383.8
122.5°	414.9	414.5	414.1	413.7	413.3	412.9	412.6
125°	458.0	457.5	457.2	457.0	456.8	456.7	456.5
127.5°	499.9	499.3	498.7	498.2	497.6	497.1	496.5
130°	528.9	528.6	528.0	527.3	526.7	526.0	525.3
132.5°	556.4	555.7	555.0	554.4	553.9	553.3	552.8
135°	598.2	598.0	597.7	597.2	596.7	596.1	595.6
137.5°	637.7	637.6	637.2	636.5	635.8	635.1	634.4
140°	664.4	664.4	664.0	663.4	662.7	662.0	661.3
142.5°	688.6	688.7	688.4	687.7	687.0	686.4	685.7
145°	725.1	725.3	725.0	724.3	723.6	722.9	722.2
147.5°	757.3	757.7	757.6	756.9	756.2	755.6	754.9
150°	777.7	778.3	778.3	777.7	777.2	776.7	776.2
152.5°	798.2	798.8	798.8	798.2	797.5	796.8	796.2
155°	824.1	825.0	825.2	824.6	824.1	823.6	823.1
157.5°	848.2	849.4	849.5	848.7	847.9	847.0	846.2
160°	862.2	863.2	863.4	862.7	862.0	861.3	860.6
162.5°	875.1	876.3	876.4	875.6	874.8	873.9	873.1
165°	891.6	892.8	893.0	892.1	891.2	890.4	889.5
167.5°	905.2	906.4	906.6	905.7	904.8	903.9	903.0
170°	912.7	913.9	914.0	913.0	911.9	910.9	909.8
172.5°	918.3	919.5	919.6	918.6	917.5	916.5	915.5
175°	924.4	925.6	925.7	924.7	923.6	922.6	921.6
177.5°	926.9	927.7	927.7	926.9	926.0	925.2	924.4
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2

(END OF REPORT)