

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: P331712-840

Luminaire Tested: **SA2XXRDIP-C865D530U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331712-840  
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: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

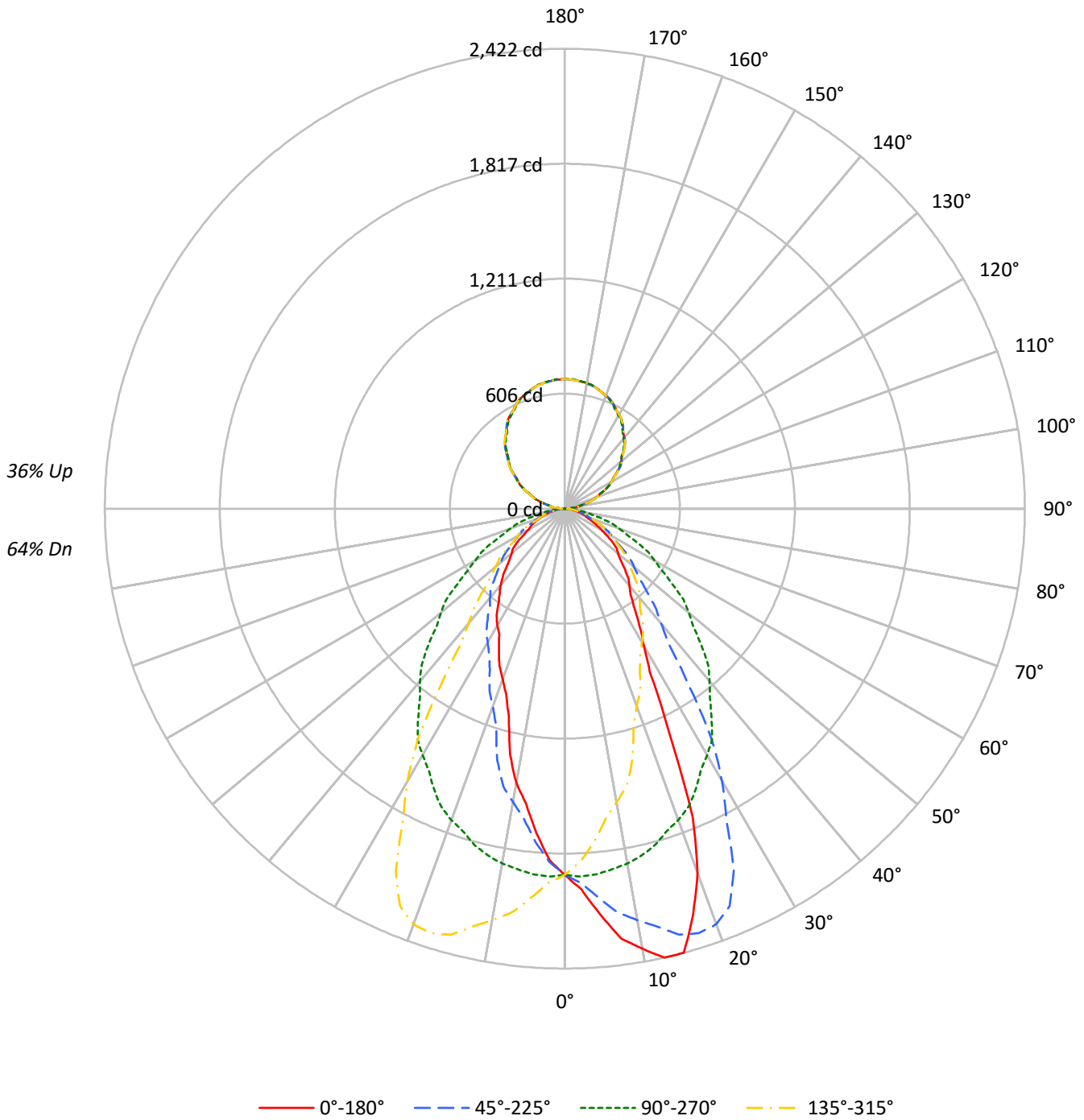
Lumens per Lamp: N/A  
Luminaire Lumens: 5243.6 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 48.8  
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	104	104	104	104	91	91	91	79	79	79	69	69	69	64				
1	102	98	94	91	95	92	89	86	81	79	77	71	70	68	62	61	60	56				
2	94	87	81	76	88	82	77	72	72	69	65	64	61	58	56	54	52	48				
3	86	77	70	65	81	73	67	62	65	60	56	57	54	51	51	48	46	42				
4	79	69	62	56	74	65	59	54	58	53	49	52	48	45	46	43	40	37				
5	73	62	55	49	69	59	52	47	53	47	43	47	43	39	42	39	36	33				
6	68	56	49	43	64	54	47	42	48	43	38	43	39	35	39	35	32	30				
7	63	52	44	38	60	49	42	37	44	39	34	40	35	32	36	32	29	27				
8	59	47	40	35	56	45	38	33	41	35	31	37	32	29	33	29	27	24				
9	55	43	36	31	52	42	35	30	38	32	28	34	30	26	31	27	24	22				
10	52	40	33	29	49	38	32	28	35	30	26	32	27	24	29	25	22	21				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	31136	31136	31136	31136
5°	34775	31331	27780	31331
10°	38581	31111	24079	31111
15°	40478	30654	18974	30654
20°	35093	29979	16417	29979
25°	23013	29054	14658	29054
30°	15491	27932	13267	27932
35°	12546	26518	11964	26518
40°	11158	24982	11072	24982
45°	10097	23178	9882	23178
50°	9191	21391	9156	21391
55°	8639	19409	8526	19409
60°	7227	17589	7143	17589
65°	6094	15973	6911	15973
70°	5632	14266	6515	14266
75°	5265	12414	6014	12414
80°	4863	10219	5365	10219
85°	4465	8058	4705	8058



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.8	3.5
10°-20°	509.4	9.7
20°-30°	656.4	12.5
30°-40°	623.8	11.9
40°-50°	534.4	10.2
50°-60°	406.9	7.8
60°-70°	257.2	4.9
70°-80°	128.5	2.4
80°-90°	36.1	0.7
90°-100°	43.3	0.8
100°-110°	134.3	2.6
110°-120°	229.6	4.4
120°-130°	301.9	5.8
130°-140°	338.8	6.5
140°-150°	332.2	6.3
150°-160°	278.7	5.3
160°-170°	184.8	3.5
170°-180°	64.6	1.2
0°-30°	1348.5	25.7
0°-40°	1972.3	37.6
0°-60°	2913.6	55.6
0°-90°	3335.4	63.6
90°-120°	407.1	7.8
90°-150°	1380.1	26.3
90°-180°	1908.0	36.4
0°-180°	5243.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1928	1928	1928	1928	1928	
5°	2146	1933	1714	1933	2146	212
15°	2422	1834	1135	1834	2422	653
25°	1292	1631	823	1631	1292	613
35°	636	1345	607	1345	636	407
45°	442	1015	433	1015	442	342
55°	307	690	303	690	307	269
65°	160	418	181	418	160	162
75°	84	199	96	199	84	90
85°	24	44	25	44	24	26
90°	20	1	20	1	20	10
95°	36	30	36	30	36	40
105°	128	124	128	124	128	134
115°	230	230	230	230	230	227
125°	336	335	336	335	336	300
135°	439	434	439	434	439	338
145°	532	526	532	526	532	332
155°	606	602	606	602	606	279
165°	655	655	655	655	655	185
175°	679	681	679	681	679	65
180°	682	682	682	682	682	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	2006.7	2008.3	2009.9	2006.1	2006.1	2003.0	1996.0	1990.6	1975.6	1973.5	1973.5
5°	2145.6	2144.1	2146.9	2138.2	2126.1	2123.4	2110.7	2094.0	2076.5	2057.1	2053.1
7.5°	2283.5	2281.5	2276.1	2274.7	2265.4	2245.2	2224.7	2202.9	2173.9	2145.7	2131.4
10°	2353.2	2375.3	2362.0	2338.4	2343.2	2311.7	2294.9	2266.1	2242.0	2199.8	2190.4
12.5°	2421.9	2430.5	2426.3	2413.0	2407.0	2385.1	2362.5	2337.4	2292.9	2255.0	2222.0
15°	2421.6	2434.3	2437.6	2433.7	2437.0	2435.7	2423.6	2402.8	2364.0	2322.4	2286.2
17.5°	2242.8	2251.7	2273.6	2288.5	2307.2	2346.9	2366.5	2374.1	2368.3	2344.6	2319.2
20°	2042.4	2027.6	2089.2	2120.7	2147.5	2214.5	2272.2	2294.3	2329.8	2329.2	2322.4
22.5°	1758.2	1761.7	1820.2	1857.5	1935.8	2002.8	2068.5	2151.7	2220.4	2265.8	2292.4
25°	1291.8	1317.4	1375.6	1426.5	1513.7	1638.3	1751.5	1882.9	2006.8	2104.7	2197.8
27.5°	970.3	972.1	1018.3	1065.4	1117.1	1219.2	1361.8	1518.6	1695.4	1841.2	2008.9
30°	830.9	826.9	846.3	875.0	919.3	998.4	1105.6	1259.7	1435.9	1655.7	1851.4
32.5°	732.3	732.5	747.1	768.4	805.2	858.5	931.9	1057.1	1223.7	1439.7	1669.1
35°	636.5	635.9	646.6	662.0	677.4	711.6	761.8	827.5	942.1	1143.8	1378.3
37.5°	567.9	570.9	576.1	585.7	602.8	621.8	652.0	696.1	777.7	897.0	1094.1
40°	529.4	530.7	538.1	546.1	556.1	570.9	595.7	631.2	690.8	786.0	930.0
42.5°	493.9	495.3	500.5	508.1	515.9	530.7	551.2	581.9	630.3	704.5	823.3
45°	442.2	442.2	447.0	450.3	459.0	472.4	489.2	514.6	548.1	603.1	682.2
47.5°	393.7	393.8	397.0	402.7	408.2	418.7	435.2	456.0	480.3	522.8	590.4
50°	365.9	366.5	368.5	373.2	376.6	386.0	398.7	416.8	442.2	475.0	531.4
52.5°	343.4	343.0	345.5	347.5	349.8	356.5	366.0	381.9	404.8	433.2	479.9
55°	306.9	304.2	308.2	311.5	313.6	316.3	321.6	331.6	351.1	375.3	410.1
57.5°	261.4	260.2	263.1	266.1	272.5	279.6	284.3	290.6	300.7	318.0	352.5
60°	223.8	223.8	229.8	231.9	239.2	248.6	258.0	263.4	273.4	284.8	310.2
62.5°	190.6	191.1	193.9	195.9	200.1	211.6	224.7	236.5	246.0	256.9	273.8
65°	159.5	160.8	160.8	162.2	164.8	167.5	172.9	182.3	199.0	214.4	227.1
67.5°	135.3	135.7	136.1	137.5	138.1	141.1	143.3	147.4	151.3	165.9	181.7
70°	119.3	121.3	120.6	122.0	122.6	123.9	126.6	128.7	134.7	138.0	147.4
72.5°	104.2	105.7	105.6	106.4	108.2	108.5	110.6	112.6	116.4	119.3	124.3
75°	84.4	83.7	84.4	85.7	86.4	87.2	87.2	89.8	91.8	94.5	97.9
77.5°	65.1	65.8	65.6	65.8	65.9	67.2	67.1	68.2	70.2	71.6	73.2
80°	52.3	52.9	52.3	52.9	53.6	54.2	53.6	54.2	56.2	57.7	57.7
82.5°	40.5	40.6	41.0	41.1	41.3	41.4	42.3	42.5	43.9	43.7	44.2
85°	24.1	23.4	23.4	23.4	24.1	24.7	24.1	24.1	24.7	24.7	24.7
87.5°	12.5	13.0	13.0	12.9	12.9	12.9	13.0	13.5	13.1	13.6	12.6
90°	19.6	19.5	19.3	19.2	19.1	19.1	19.4	19.7	19.9	20.2	17.4
92.5°	18.7	18.7	18.6	18.6	18.6	18.5	18.5	18.4	18.4	18.3	17.7
95°	35.7	36.0	36.3	36.5	36.8	36.9	36.9	36.9	36.9	36.9	36.6
97.5°	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	61.5
100°	78.9	79.1	79.2	79.3	79.4	79.5	79.5	79.5	79.5	79.5	79.1
102.5°	98.3	98.4	98.5	98.7	98.8	98.8	98.7	98.6	98.5	98.4	97.9
105°	127.8	127.8	127.8	127.8	127.8	127.7	127.4	127.2	126.9	126.7	126.4
107.5°	155.7	156.3	156.9	157.4	158.0	158.3	158.2	158.1	158.0	157.9	157.9
110°	177.3	177.7	178.1	178.5	178.9	179.0	179.0	179.0	179.0	179.0	179.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	198.1	198.3	198.6	198.9	199.2	199.5	199.9	200.2	200.5	200.8	200.9
115°	230.4	230.8	231.2	231.5	231.9	232.2	232.3	232.4	232.6	232.7	232.9
117.5°	261.1	261.5	261.9	262.3	262.7	263.0	263.3	263.6	263.9	264.2	264.9
120°	282.8	283.2	283.6	283.9	284.3	284.5	284.5	284.5	284.5	284.5	285.5
122.5°	304.0	304.3	304.5	304.8	305.1	305.4	305.7	306.0	306.3	306.6	307.3
125°	336.3	336.4	336.6	336.7	336.8	337.1	337.5	337.8	338.2	338.6	339.0
127.5°	365.8	366.2	366.6	367.0	367.4	367.9	368.3	368.8	369.2	369.7	370.2
130°	387.0	387.5	388.0	388.5	389.0	389.4	389.7	389.9	390.2	390.4	390.7
132.5°	407.3	407.7	408.1	408.5	408.9	409.4	409.9	410.5	411.1	411.6	411.6
135°	438.8	439.2	439.6	440.0	440.3	440.6	440.7	440.9	441.0	441.1	440.9
137.5°	467.4	467.9	468.4	468.9	469.4	469.7	469.8	469.9	470.0	470.1	469.8
140°	487.2	487.7	488.2	488.7	489.3	489.5	489.5	489.5	489.5	489.5	488.9
142.5°	505.1	505.6	506.1	506.6	507.2	507.4	507.3	507.2	507.1	507.0	506.5
145°	532.1	532.6	533.1	533.6	534.1	534.3	534.2	534.1	533.9	533.8	533.1
147.5°	556.1	556.6	557.1	557.6	558.2	558.3	558.0	557.6	557.3	557.1	556.5
150°	571.9	572.2	572.6	573.0	573.4	573.4	573.0	572.6	572.2	571.9	571.3
152.5°	586.6	587.0	587.5	588.0	588.5	588.5	588.0	587.5	587.0	586.6	585.9
155°	606.4	606.7	607.1	607.5	607.9	607.8	607.1	606.5	605.9	605.2	604.8
157.5°	623.4	624.1	624.7	625.3	625.9	625.8	624.9	624.0	623.2	622.3	622.1
160°	634.0	634.5	635.1	635.6	636.1	635.9	635.2	634.4	633.7	632.9	632.8
162.5°	643.3	643.9	644.5	645.1	645.7	645.6	644.7	643.8	643.0	642.1	642.0
165°	655.3	656.0	656.6	657.2	657.9	657.7	656.9	656.0	655.1	654.2	654.2
167.5°	665.2	665.9	666.6	667.2	667.9	667.8	666.9	666.0	665.1	664.2	664.2
170°	670.3	671.1	671.9	672.6	673.4	673.3	672.5	671.6	670.7	669.7	669.8
172.5°	674.5	675.2	676.0	676.8	677.5	677.4	676.6	675.7	674.8	673.9	674.0
175°	678.9	679.7	680.4	681.3	682.1	682.0	681.1	680.1	679.2	678.3	678.6
177.5°	681.1	681.7	682.3	682.9	683.5	683.5	682.9	682.3	681.7	681.1	681.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1974.5	1970.2	1966.5	1956.8	1952.0	1941.3	1939.6	1939.1	1925.2	1911.8	1908.0
5°	2042.4	2031.6	2015.5	1996.8	1977.3	1957.2	1943.8	1933.1	1906.3	1880.9	1866.1
7.5°	2110.7	2087.6	2059.9	2024.4	1994.8	1961.6	1936.8	1914.7	1876.7	1840.3	1815.7
10°	2161.6	2124.0	2087.2	2038.3	2000.1	1962.6	1927.7	1897.6	1854.7	1806.4	1772.3
12.5°	2193.2	2151.9	2101.1	2053.4	2003.9	1956.1	1909.6	1870.8	1820.4	1770.6	1729.9
15°	2235.9	2191.7	2130.1	2061.7	1998.1	1935.8	1882.2	1833.9	1768.3	1708.6	1659.0
17.5°	2271.0	2210.1	2143.9	2064.9	1991.2	1912.0	1842.9	1781.3	1708.2	1636.3	1577.8
20°	2282.2	2221.9	2145.6	2066.5	1979.3	1886.2	1811.8	1744.8	1666.4	1588.0	1521.1
22.5°	2275.2	2228.4	2143.3	2048.7	1959.5	1862.1	1778.1	1700.3	1613.4	1533.4	1455.6
25°	2228.0	2211.8	2131.4	2028.2	1926.4	1813.2	1716.0	1630.9	1531.8	1446.0	1361.5
27.5°	2117.7	2152.3	2102.5	1992.6	1879.4	1758.0	1648.7	1551.9	1449.0	1352.4	1268.3
30°	2011.6	2091.2	2069.8	1967.9	1841.3	1722.0	1599.4	1498.2	1388.4	1289.2	1206.1
32.5°	1866.2	1997.9	2018.9	1933.7	1802.7	1671.6	1543.2	1442.5	1327.8	1223.2	1142.3
35°	1635.0	1831.9	1922.4	1868.1	1736.8	1595.4	1462.7	1345.4	1230.2	1127.0	1046.6
37.5°	1359.0	1627.3	1778.1	1781.9	1661.3	1514.3	1369.9	1253.4	1135.5	1034.2	947.2
40°	1179.9	1470.8	1667.1	1710.6	1608.8	1450.0	1303.9	1185.3	1070.1	970.9	871.1
42.5°	1019.2	1308.9	1550.2	1626.0	1545.0	1387.3	1240.7	1116.7	1004.7	910.9	808.9
45°	824.2	1077.4	1343.4	1478.8	1433.9	1287.9	1133.1	1015.1	909.9	828.9	731.0
47.5°	695.3	873.7	1131.1	1314.2	1313.4	1180.1	1027.8	914.9	817.3	741.3	662.2
50°	621.8	777.3	995.0	1202.7	1220.1	1108.2	963.5	851.6	760.5	680.8	617.1
52.5°	555.8	684.0	879.8	1078.9	1128.5	1031.6	891.2	787.9	699.4	626.1	571.6
55°	469.7	568.9	717.6	903.9	979.0	910.6	786.0	689.5	617.8	556.1	509.3
57.5°	397.4	471.7	591.1	741.0	828.5	785.5	682.7	604.3	542.9	487.2	450.1
60°	351.7	412.7	513.9	639.2	735.7	705.6	617.8	544.7	492.5	444.2	409.4
62.5°	308.9	361.3	448.0	549.7	638.1	625.7	554.0	492.7	447.0	402.9	373.4
65°	248.6	286.8	354.5	434.2	505.2	511.3	459.7	418.1	377.3	342.4	316.3
67.5°	197.9	222.9	270.5	337.7	390.9	409.9	378.4	346.7	314.3	287.3	264.7
70°	166.8	186.9	221.8	276.1	325.0	345.1	327.0	302.2	274.1	252.0	232.5
72.5°	135.2	154.8	180.5	220.4	262.3	284.0	277.7	259.8	237.0	218.7	200.4
75°	101.9	107.9	125.3	152.1	184.9	203.7	208.4	199.0	180.9	166.8	156.1
77.5°	75.3	79.0	87.3	101.3	122.8	139.5	146.3	145.2	132.8	124.6	114.6
80°	60.3	62.3	66.3	72.4	88.5	105.2	109.9	109.9	101.2	97.9	87.8
82.5°	45.8	47.3	49.7	53.0	60.6	75.1	80.4	81.5	75.9	71.6	63.6
85°	26.2	25.4	26.8	28.8	30.2	34.1	42.2	43.5	42.2	36.9	34.8
87.5°	12.0	12.0	11.4	10.5	10.7	10.9	13.3	15.7	13.8	12.5	11.7
90°	14.5	11.7	8.9	6.8	5.2	3.6	2.1	0.6	2.1	3.6	5.2
92.5°	17.0	16.4	15.7	14.7	13.6	12.5	11.4	10.3	11.4	12.5	13.6
95°	36.4	36.1	35.9	35.0	33.8	32.5	31.2	30.0	31.2	32.5	33.8
97.5°	61.0	60.5	60.0	59.2	58.1	57.0	55.8	54.7	55.8	57.0	58.1
100°	78.7	78.4	78.0	77.3	76.2	75.1	74.1	73.1	74.1	75.1	76.2
102.5°	97.4	96.9	96.4	95.7	94.9	94.1	93.3	92.5	93.3	94.1	94.9
105°	126.1	125.9	125.6	125.3	124.9	124.6	124.2	123.8	124.2	124.6	124.9
107.5°	157.9	157.9	157.9	157.6	157.0	156.5	155.9	155.4	155.9	156.5	157.0
110°	179.0	179.0	179.0	178.7	177.9	177.1	176.4	175.6	176.4	177.1	177.9





TEST NUMBER: P331712-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.0	201.1	201.2	200.9	200.1	199.2	198.5	197.7	198.5	199.2	200.1
115°	233.2	233.4	233.7	233.4	232.7	231.9	231.2	230.4	231.2	231.9	232.7
117.5°	265.6	266.4	267.1	266.9	265.9	264.9	263.9	262.9	263.9	264.9	265.9
120°	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5	285.5	286.5	287.5
122.5°	308.0	308.7	309.4	309.2	308.0	306.8	305.5	304.3	305.5	306.8	308.0
125°	339.4	339.7	340.1	339.7	338.6	337.5	336.3	335.2	336.3	337.5	338.6
127.5°	370.6	371.1	371.5	371.0	369.6	368.1	366.7	365.2	366.7	368.1	369.6
130°	390.9	391.2	391.4	390.7	389.1	387.4	385.8	384.2	385.8	387.4	389.1
132.5°	411.5	411.5	411.4	410.7	409.4	408.0	406.7	405.3	406.7	408.0	409.4
135°	440.6	440.3	440.1	439.3	437.9	436.5	435.0	433.6	435.0	436.5	437.9
137.5°	469.5	469.2	468.8	468.1	467.0	465.7	464.6	463.4	464.6	465.7	467.0
140°	488.2	487.6	487.0	486.0	484.8	483.7	482.6	481.4	482.6	483.7	484.8
142.5°	506.1	505.7	505.2	504.4	503.3	502.2	501.0	499.9	501.0	502.2	503.3
145°	532.3	531.5	530.8	530.0	529.1	528.2	527.3	526.3	527.3	528.2	529.1
147.5°	556.0	555.5	555.0	554.2	553.2	552.1	551.0	550.0	551.0	552.1	553.2
150°	570.8	570.3	569.8	569.2	568.4	567.6	566.8	566.1	566.8	567.6	568.4
152.5°	585.3	584.7	584.1	583.4	582.7	581.9	581.2	580.4	581.2	581.9	582.7
155°	604.5	604.1	603.7	603.3	602.9	602.6	602.2	601.8	602.2	602.6	602.9
157.5°	621.9	621.6	621.4	621.2	620.9	620.6	620.4	620.1	620.4	620.6	620.9
160°	632.6	632.5	632.4	632.2	631.9	631.7	631.4	631.2	631.4	631.7	631.9
162.5°	641.9	641.7	641.6	641.5	641.5	641.4	641.4	641.3	641.4	641.4	641.5
165°	654.2	654.2	654.2	654.3	654.4	654.5	654.6	654.8	654.6	654.5	654.4
167.5°	664.3	664.3	664.3	664.5	664.9	665.3	665.7	666.0	665.7	665.3	664.9
170°	669.9	670.1	670.2	670.6	670.9	671.3	671.7	672.1	671.7	671.3	670.9
172.5°	674.2	674.3	674.4	674.7	675.0	675.4	675.8	676.2	675.8	675.4	675.0
175°	678.9	679.1	679.4	679.7	680.1	680.4	680.9	681.3	680.9	680.4	680.1
177.5°	681.5	681.7	681.9	682.1	682.4	682.7	683.0	683.4	683.0	682.7	682.4
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331712-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1901.1	1897.3	1890.4	1879.7	1873.2	1862.0	1854.4	1858.8	1859.8	1858.8	1857.6
5°	1850.0	1835.9	1816.5	1797.8	1780.3	1761.6	1750.8	1746.2	1736.8	1731.4	1728.8
7.5°	1788.3	1764.0	1736.5	1703.8	1676.1	1647.0	1632.1	1624.8	1605.6	1595.1	1586.0
10°	1742.1	1703.9	1676.5	1633.6	1607.5	1569.2	1543.2	1543.8	1517.6	1502.9	1492.2
12.5°	1691.2	1649.3	1603.6	1565.0	1528.6	1497.9	1466.5	1453.7	1426.0	1411.8	1382.8
15°	1606.8	1557.9	1509.6	1457.3	1420.5	1372.9	1327.4	1271.7	1226.9	1188.0	1177.3
17.5°	1514.6	1454.0	1405.6	1344.2	1281.1	1201.1	1148.3	1116.0	1088.9	1068.4	1053.2
20°	1451.4	1389.7	1338.1	1245.7	1160.5	1106.3	1067.4	1042.6	1014.5	992.4	980.3
22.5°	1384.8	1320.5	1250.2	1147.0	1080.7	1037.1	1002.5	974.0	954.9	937.7	926.7
25°	1290.5	1220.1	1104.3	1033.2	979.6	934.0	909.9	892.5	872.4	849.0	838.2
27.5°	1190.8	1078.9	995.7	942.9	891.7	862.1	840.4	814.4	796.4	785.9	774.7
30°	1116.3	1004.4	939.4	881.8	845.6	812.7	787.3	772.5	755.2	737.1	729.7
32.5°	1033.2	943.8	881.5	833.5	796.8	768.8	748.7	724.9	712.3	701.1	685.7
35°	930.0	862.3	805.4	766.6	731.7	708.9	685.5	671.4	648.6	639.2	633.2
37.5°	842.6	784.0	741.4	700.4	672.9	647.6	633.3	611.0	601.1	588.0	575.3
40°	793.3	735.7	694.9	661.4	630.6	611.8	593.7	575.6	560.9	554.8	539.4
42.5°	743.0	696.1	655.2	618.4	597.8	577.9	555.1	541.8	526.5	516.7	507.3
45°	673.4	631.9	597.0	566.8	544.1	523.3	508.6	486.5	477.8	458.3	450.3
47.5°	612.3	573.7	540.5	511.8	489.6	476.1	454.4	437.2	423.2	411.3	400.9
50°	568.9	536.7	504.5	479.1	459.0	439.6	417.5	408.7	387.3	381.2	375.3
52.5°	529.2	498.7	469.2	444.2	424.1	405.3	385.8	374.5	359.9	354.0	349.5
55°	473.7	444.2	416.1	393.9	373.9	354.5	342.4	328.3	321.6	316.9	311.5
57.5°	418.0	391.4	369.9	347.5	327.3	311.8	297.9	289.4	282.5	276.3	269.9
60°	382.6	357.1	337.7	316.9	296.2	283.5	272.7	262.7	254.6	245.2	242.6
62.5°	345.1	322.9	305.0	284.8	266.7	255.0	244.8	235.3	225.7	212.0	208.2
65°	293.5	276.1	257.3	240.5	224.5	213.1	198.3	187.6	183.6	182.3	181.6
67.5°	246.8	230.4	214.3	197.1	182.5	172.0	164.4	162.8	160.0	159.2	157.3
70°	215.7	200.4	184.3	168.1	154.1	152.1	149.5	146.7	143.4	142.1	140.7
72.5°	187.8	172.0	155.8	143.0	136.9	134.4	131.7	129.1	126.7	125.4	124.6
75°	144.1	129.4	118.6	113.9	110.6	108.6	104.5	102.5	101.2	99.2	98.5
77.5°	103.7	95.4	90.5	87.6	84.0	81.9	79.6	77.6	76.1	75.7	74.6
80°	79.1	75.0	71.7	67.7	66.3	63.6	63.0	61.0	61.6	59.7	59.7
82.5°	61.4	56.2	53.4	51.6	50.3	48.1	47.5	46.5	46.7	45.1	45.1
85°	31.5	30.2	28.8	27.5	27.5	25.4	26.2	25.4	25.4	24.1	23.4
87.5°	11.5	11.4	10.9	11.5	12.0	12.1	12.0	11.4	11.4	11.3	10.8
90°	6.8	8.9	11.7	14.5	17.4	20.2	19.9	19.7	19.4	19.1	19.1
92.5°	14.7	15.7	16.4	17.0	17.7	18.3	18.4	18.4	18.5	18.5	18.6
95°	35.0	35.9	36.1	36.4	36.6	36.9	36.9	36.9	36.9	36.9	36.8
97.5°	59.2	60.0	60.5	61.0	61.5	62.0	62.0	62.0	62.0	62.0	61.9
100°	77.3	78.0	78.4	78.7	79.1	79.5	79.5	79.5	79.5	79.5	79.4
102.5°	95.7	96.4	96.9	97.4	97.9	98.4	98.5	98.6	98.7	98.8	98.8
105°	125.3	125.6	125.9	126.1	126.4	126.7	126.9	127.2	127.4	127.7	127.8
107.5°	157.6	157.9	157.9	157.9	157.9	157.9	158.0	158.1	158.2	158.3	158.0
110°	178.7	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	178.9



TEST NUMBER: P331712-840

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	200.9	201.2	201.1	201.0	200.9	200.8	200.5	200.2	199.9	199.5	199.2
115°	233.4	233.7	233.4	233.2	232.9	232.7	232.6	232.4	232.3	232.2	231.9
117.5°	266.9	267.1	266.4	265.6	264.9	264.2	263.9	263.6	263.3	263.0	262.7
120°	288.6	288.6	287.5	286.5	285.5	284.5	284.5	284.5	284.5	284.5	284.3
122.5°	309.2	309.4	308.7	308.0	307.3	306.6	306.3	306.0	305.7	305.4	305.1
125°	339.7	340.1	339.7	339.4	339.0	338.6	338.2	337.8	337.5	337.1	336.8
127.5°	371.0	371.5	371.1	370.6	370.2	369.7	369.2	368.8	368.3	367.9	367.4
130°	390.7	391.4	391.2	390.9	390.7	390.4	390.2	389.9	389.7	389.4	389.0
132.5°	410.7	411.4	411.5	411.5	411.6	411.6	411.1	410.5	409.9	409.4	408.9
135°	439.3	440.1	440.3	440.6	440.9	441.1	441.0	440.9	440.7	440.6	440.3
137.5°	468.1	468.8	469.2	469.5	469.8	470.1	470.0	469.9	469.8	469.7	469.4
140°	486.0	487.0	487.6	488.2	488.9	489.5	489.5	489.5	489.5	489.5	489.3
142.5°	504.4	505.2	505.7	506.1	506.5	507.0	507.1	507.2	507.3	507.4	507.2
145°	530.0	530.8	531.5	532.3	533.1	533.8	533.9	534.1	534.2	534.3	534.1
147.5°	554.2	555.0	555.5	556.0	556.5	557.1	557.3	557.6	558.0	558.3	558.2
150°	569.2	569.8	570.3	570.8	571.3	571.9	572.2	572.6	573.0	573.4	573.4
152.5°	583.4	584.1	584.7	585.3	585.9	586.6	587.0	587.5	588.0	588.5	588.5
155°	603.3	603.7	604.1	604.5	604.8	605.2	605.9	606.5	607.1	607.8	607.9
157.5°	621.2	621.4	621.6	621.9	622.1	622.3	623.2	624.0	624.9	625.8	625.9
160°	632.2	632.4	632.5	632.6	632.8	632.9	633.7	634.4	635.2	635.9	636.1
162.5°	641.5	641.6	641.7	641.9	642.0	642.1	643.0	643.8	644.7	645.6	645.7
165°	654.3	654.2	654.2	654.2	654.2	654.2	655.1	656.0	656.9	657.7	657.9
167.5°	664.5	664.3	664.3	664.3	664.2	664.2	665.1	666.0	666.9	667.8	667.9
170°	670.6	670.2	670.1	669.9	669.8	669.7	670.7	671.6	672.5	673.3	673.4
172.5°	674.7	674.4	674.3	674.2	674.0	673.9	674.8	675.7	676.6	677.4	677.5
175°	679.7	679.4	679.1	678.9	678.6	678.3	679.2	680.1	681.1	682.0	682.1
177.5°	682.1	681.9	681.7	681.5	681.3	681.1	681.7	682.3	682.9	683.5	683.5
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331712-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1851.8	1852.8	1851.2	1852.3	1851.2	1852.8	1851.8	1857.6	1858.8	1859.8	1858.8
5°	1725.4	1717.4	1716.0	1714.0	1716.0	1717.4	1725.4	1728.8	1731.4	1736.8	1746.2
7.5°	1574.5	1573.3	1569.9	1565.3	1569.9	1573.3	1574.5	1586.0	1595.1	1605.6	1624.8
10°	1477.4	1474.1	1473.5	1468.7	1473.5	1474.1	1477.4	1492.2	1502.9	1517.6	1543.8
12.5°	1363.8	1342.2	1340.0	1328.3	1340.0	1342.2	1363.8	1382.8	1411.8	1426.0	1453.7
15°	1161.2	1157.2	1143.8	1135.1	1143.8	1157.2	1161.2	1177.3	1188.0	1226.9	1271.7
17.5°	1045.4	1032.3	1028.1	1026.2	1028.1	1032.3	1045.4	1053.2	1068.4	1088.9	1116.0
20°	970.9	958.9	956.8	955.5	956.8	958.9	970.9	980.3	992.4	1014.5	1042.6
22.5°	919.5	906.9	901.6	897.6	901.6	906.9	919.5	926.7	937.7	954.9	974.0
25°	831.5	826.9	824.2	822.8	824.2	826.9	831.5	838.2	849.0	872.4	892.5
27.5°	762.8	752.5	750.4	747.0	750.4	752.5	762.8	774.7	785.9	796.4	814.4
30°	723.7	720.3	715.6	711.6	715.6	720.3	723.7	729.7	737.1	755.2	772.5
32.5°	677.5	674.8	670.6	668.7	670.6	674.8	677.5	685.7	701.1	712.3	724.9
35°	626.5	617.1	613.1	607.0	613.1	617.1	626.5	633.2	639.2	648.6	671.4
37.5°	572.5	567.5	561.9	563.9	561.9	567.5	572.5	575.3	588.0	601.1	611.0
40°	530.7	527.4	526.0	525.3	526.0	527.4	530.7	539.4	554.8	560.9	575.6
42.5°	497.5	488.2	484.7	484.5	484.7	488.2	497.5	507.3	516.7	526.5	541.8
45°	447.0	438.2	432.2	432.8	432.2	438.2	447.0	450.3	458.3	477.8	486.5
47.5°	395.2	395.0	391.2	392.4	391.2	395.0	395.2	400.9	411.3	423.2	437.2
50°	370.5	366.5	363.9	364.5	363.9	366.5	370.5	375.3	381.2	387.3	408.7
52.5°	347.0	343.5	341.3	344.2	341.3	343.5	347.0	349.5	354.0	359.9	374.5
55°	308.2	304.2	303.6	302.9	303.6	304.2	308.2	311.5	316.9	321.6	328.3
57.5°	265.0	262.3	258.2	256.5	258.2	262.3	265.0	269.9	276.3	282.5	289.4
60°	233.9	228.5	221.8	221.2	221.8	228.5	233.9	242.6	245.2	254.6	262.7
62.5°	205.4	204.4	203.0	202.9	203.0	204.4	205.4	208.2	212.0	225.7	235.3
65°	180.3	179.6	180.3	180.9	180.3	179.6	180.3	181.6	182.3	183.6	187.6
67.5°	157.0	155.8	154.6	155.2	154.6	155.8	157.0	157.3	159.2	160.0	162.8
70°	139.4	138.7	138.0	138.0	138.0	138.7	139.4	140.7	142.1	143.4	146.7
72.5°	122.2	122.1	121.4	120.9	121.4	122.1	122.2	124.6	125.4	126.7	129.1
75°	97.9	96.4	96.4	96.4	96.4	96.4	97.9	98.5	99.2	101.2	102.5
77.5°	74.5	73.8	73.2	72.6	73.2	73.8	74.5	74.6	75.7	76.1	77.6
80°	59.0	58.3	57.7	57.7	57.7	58.3	59.0	59.7	59.7	61.6	61.0
82.5°	45.0	44.3	44.2	43.7	44.2	44.3	45.0	45.1	45.1	46.7	46.5
85°	24.1	24.7	24.1	25.4	24.1	24.7	24.1	23.4	24.1	25.4	25.4
87.5°	10.8	10.3	10.9	10.3	10.9	10.3	10.8	10.8	11.3	11.4	11.4
90°	19.2	19.3	19.5	19.6	19.5	19.3	19.2	19.1	19.1	19.4	19.7
92.5°	18.6	18.6	18.7	18.7	18.7	18.6	18.6	18.6	18.5	18.5	18.4
95°	36.5	36.3	36.0	35.7	36.0	36.3	36.5	36.8	36.9	36.9	36.9
97.5°	61.9	61.9	61.9	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.0
100°	79.3	79.2	79.1	78.9	79.1	79.2	79.3	79.4	79.5	79.5	79.5
102.5°	98.7	98.5	98.4	98.3	98.4	98.5	98.7	98.8	98.8	98.7	98.6
105°	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.7	127.4	127.2
107.5°	157.4	156.9	156.3	155.7	156.3	156.9	157.4	158.0	158.3	158.2	158.1
110°	178.5	178.1	177.7	177.3	177.7	178.1	178.5	178.9	179.0	179.0	179.0



TEST NUMBER: P331712-840

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	198.9	198.6	198.3	198.1	198.3	198.6	198.9	199.2	199.5	199.9	200.2
115°	231.5	231.2	230.8	230.4	230.8	231.2	231.5	231.9	232.2	232.3	232.4
117.5°	262.3	261.9	261.5	261.1	261.5	261.9	262.3	262.7	263.0	263.3	263.6
120°	283.9	283.6	283.2	282.8	283.2	283.6	283.9	284.3	284.5	284.5	284.5
122.5°	304.8	304.5	304.3	304.0	304.3	304.5	304.8	305.1	305.4	305.7	306.0
125°	336.7	336.6	336.4	336.3	336.4	336.6	336.7	336.8	337.1	337.5	337.8
127.5°	367.0	366.6	366.2	365.8	366.2	366.6	367.0	367.4	367.9	368.3	368.8
130°	388.5	388.0	387.5	387.0	387.5	388.0	388.5	389.0	389.4	389.7	389.9
132.5°	408.5	408.1	407.7	407.3	407.7	408.1	408.5	408.9	409.4	409.9	410.5
135°	440.0	439.6	439.2	438.8	439.2	439.6	440.0	440.3	440.6	440.7	440.9
137.5°	468.9	468.4	467.9	467.4	467.9	468.4	468.9	469.4	469.7	469.8	469.9
140°	488.7	488.2	487.7	487.2	487.7	488.2	488.7	489.3	489.5	489.5	489.5
142.5°	506.6	506.1	505.6	505.1	505.6	506.1	506.6	507.2	507.4	507.3	507.2
145°	533.6	533.1	532.6	532.1	532.6	533.1	533.6	534.1	534.3	534.2	534.1
147.5°	557.6	557.1	556.6	556.1	556.6	557.1	557.6	558.2	558.3	558.0	557.6
150°	573.0	572.6	572.2	571.9	572.2	572.6	573.0	573.4	573.4	573.0	572.6
152.5°	588.0	587.5	587.0	586.6	587.0	587.5	588.0	588.5	588.5	588.0	587.5
155°	607.5	607.1	606.7	606.4	606.7	607.1	607.5	607.9	607.8	607.1	606.5
157.5°	625.3	624.7	624.1	623.4	624.1	624.7	625.3	625.9	625.8	624.9	624.0
160°	635.6	635.1	634.5	634.0	634.5	635.1	635.6	636.1	635.9	635.2	634.4
162.5°	645.1	644.5	643.9	643.3	643.9	644.5	645.1	645.7	645.6	644.7	643.8
165°	657.2	656.6	656.0	655.3	656.0	656.6	657.2	657.9	657.7	656.9	656.0
167.5°	667.2	666.6	665.9	665.2	665.9	666.6	667.2	667.9	667.8	666.9	666.0
170°	672.6	671.9	671.1	670.3	671.1	671.9	672.6	673.4	673.3	672.5	671.6
172.5°	676.8	676.0	675.2	674.5	675.2	676.0	676.8	677.5	677.4	676.6	675.7
175°	681.3	680.4	679.7	678.9	679.7	680.4	681.3	682.1	682.0	681.1	680.1
177.5°	682.9	682.3	681.7	681.1	681.7	682.3	682.9	683.5	683.5	682.9	682.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331712-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1854.4	1862.0	1873.2	1879.7	1890.4	1897.3	1901.1	1908.0	1911.8	1925.2	1939.1
5°	1750.8	1761.6	1780.3	1797.8	1816.5	1835.9	1850.0	1866.1	1880.9	1906.3	1933.1
7.5°	1632.1	1647.0	1676.1	1703.8	1736.5	1764.0	1788.3	1815.7	1840.3	1876.7	1914.7
10°	1543.2	1569.2	1607.5	1633.6	1676.5	1703.9	1742.1	1772.3	1806.4	1854.7	1897.6
12.5°	1466.5	1497.9	1528.6	1565.0	1603.6	1649.3	1691.2	1729.9	1770.6	1820.4	1870.8
15°	1327.4	1372.9	1420.5	1457.3	1509.6	1557.9	1606.8	1659.0	1708.6	1768.3	1833.9
17.5°	1148.3	1201.1	1281.1	1344.2	1405.6	1454.0	1514.6	1577.8	1636.3	1708.2	1781.3
20°	1067.4	1106.3	1160.5	1245.7	1338.1	1389.7	1451.4	1521.1	1588.0	1666.4	1744.8
22.5°	1002.5	1037.1	1080.7	1147.0	1250.2	1320.5	1384.8	1455.6	1533.4	1613.4	1700.3
25°	909.9	934.0	979.6	1033.2	1104.3	1220.1	1290.5	1361.5	1446.0	1531.8	1630.9
27.5°	840.4	862.1	891.7	942.9	995.7	1078.9	1190.8	1268.3	1352.4	1449.0	1551.9
30°	787.3	812.7	845.6	881.8	939.4	1004.4	1116.3	1206.1	1289.2	1388.4	1498.2
32.5°	748.7	768.8	796.8	833.5	881.5	943.8	1033.2	1142.3	1223.2	1327.8	1442.5
35°	685.5	708.9	731.7	766.6	805.4	862.3	930.0	1046.6	1127.0	1230.2	1345.4
37.5°	633.3	647.6	672.9	700.4	741.4	784.0	842.6	947.2	1034.2	1135.5	1253.4
40°	593.7	611.8	630.6	661.4	694.9	735.7	793.3	871.1	970.9	1070.1	1185.3
42.5°	555.1	577.9	597.8	618.4	655.2	696.1	743.0	808.9	910.9	1004.7	1116.7
45°	508.6	523.3	544.1	566.8	597.0	631.9	673.4	731.0	828.9	909.9	1015.1
47.5°	454.4	476.1	489.6	511.8	540.5	573.7	612.3	662.2	741.3	817.3	914.9
50°	417.5	439.6	459.0	479.1	504.5	536.7	568.9	617.1	680.8	760.5	851.6
52.5°	385.8	405.3	424.1	444.2	469.2	498.7	529.2	571.6	626.1	699.4	787.9
55°	342.4	354.5	373.9	393.9	416.1	444.2	473.7	509.3	556.1	617.8	689.5
57.5°	297.9	311.8	327.3	347.5	369.9	391.4	418.0	450.1	487.2	542.9	604.3
60°	272.7	283.5	296.2	316.9	337.7	357.1	382.6	409.4	444.2	492.5	544.7
62.5°	244.8	255.0	266.7	284.8	305.0	322.9	345.1	373.4	402.9	447.0	492.7
65°	198.3	213.1	224.5	240.5	257.3	276.1	293.5	316.3	342.4	377.3	418.1
67.5°	164.4	172.0	182.5	197.1	214.3	230.4	246.8	264.7	287.3	314.3	346.7
70°	149.5	152.1	154.1	168.1	184.3	200.4	215.7	232.5	252.0	274.1	302.2
72.5°	131.7	134.4	136.9	143.0	155.8	172.0	187.8	200.4	218.7	237.0	259.8
75°	104.5	108.6	110.6	113.9	118.6	129.4	144.1	156.1	166.8	180.9	199.0
77.5°	79.6	81.9	84.0	87.6	90.5	95.4	103.7	114.6	124.6	132.8	145.2
80°	63.0	63.6	66.3	67.7	71.7	75.0	79.1	87.8	97.9	101.2	109.9
82.5°	47.5	48.1	50.3	51.6	53.4	56.2	61.4	63.6	71.6	75.9	81.5
85°	26.2	25.4	27.5	27.5	28.8	30.2	31.5	34.8	36.9	42.2	43.5
87.5°	12.0	12.1	12.0	11.5	10.9	11.4	11.5	11.7	12.5	13.8	15.7
90°	19.9	20.2	17.4	14.5	11.7	8.9	6.8	5.2	3.6	2.1	0.6
92.5°	18.4	18.3	17.7	17.0	16.4	15.7	14.7	13.6	12.5	11.4	10.3
95°	36.9	36.9	36.6	36.4	36.1	35.9	35.0	33.8	32.5	31.2	30.0
97.5°	62.0	62.0	61.5	61.0	60.5	60.0	59.2	58.1	57.0	55.8	54.7
100°	79.5	79.5	79.1	78.7	78.4	78.0	77.3	76.2	75.1	74.1	73.1
102.5°	98.5	98.4	97.9	97.4	96.9	96.4	95.7	94.9	94.1	93.3	92.5
105°	126.9	126.7	126.4	126.1	125.9	125.6	125.3	124.9	124.6	124.2	123.8
107.5°	158.0	157.9	157.9	157.9	157.9	157.9	157.6	157.0	156.5	155.9	155.4
110°	179.0	179.0	179.0	179.0	179.0	179.0	178.7	177.9	177.1	176.4	175.6



TEST NUMBER: P331712-840

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	200.5	200.8	200.9	201.0	201.1	201.2	200.9	200.1	199.2	198.5	197.7
115°	232.6	232.7	232.9	233.2	233.4	233.7	233.4	232.7	231.9	231.2	230.4
117.5°	263.9	264.2	264.9	265.6	266.4	267.1	266.9	265.9	264.9	263.9	262.9
120°	284.5	284.5	285.5	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5
122.5°	306.3	306.6	307.3	308.0	308.7	309.4	309.2	308.0	306.8	305.5	304.3
125°	338.2	338.6	339.0	339.4	339.7	340.1	339.7	338.6	337.5	336.3	335.2
127.5°	369.2	369.7	370.2	370.6	371.1	371.5	371.0	369.6	368.1	366.7	365.2
130°	390.2	390.4	390.7	390.9	391.2	391.4	390.7	389.1	387.4	385.8	384.2
132.5°	411.1	411.6	411.6	411.5	411.5	411.4	410.7	409.4	408.0	406.7	405.3
135°	441.0	441.1	440.9	440.6	440.3	440.1	439.3	437.9	436.5	435.0	433.6
137.5°	470.0	470.1	469.8	469.5	469.2	468.8	468.1	467.0	465.7	464.6	463.4
140°	489.5	489.5	488.9	488.2	487.6	487.0	486.0	484.8	483.7	482.6	481.4
142.5°	507.1	507.0	506.5	506.1	505.7	505.2	504.4	503.3	502.2	501.0	499.9
145°	533.9	533.8	533.1	532.3	531.5	530.8	530.0	529.1	528.2	527.3	526.3
147.5°	557.3	557.1	556.5	556.0	555.5	555.0	554.2	553.2	552.1	551.0	550.0
150°	572.2	571.9	571.3	570.8	570.3	569.8	569.2	568.4	567.6	566.8	566.1
152.5°	587.0	586.6	585.9	585.3	584.7	584.1	583.4	582.7	581.9	581.2	580.4
155°	605.9	605.2	604.8	604.5	604.1	603.7	603.3	602.9	602.6	602.2	601.8
157.5°	623.2	622.3	622.1	621.9	621.6	621.4	621.2	620.9	620.6	620.4	620.1
160°	633.7	632.9	632.8	632.6	632.5	632.4	632.2	631.9	631.7	631.4	631.2
162.5°	643.0	642.1	642.0	641.9	641.7	641.6	641.5	641.5	641.4	641.4	641.3
165°	655.1	654.2	654.2	654.2	654.2	654.2	654.3	654.4	654.5	654.6	654.8
167.5°	665.1	664.2	664.2	664.3	664.3	664.3	664.5	664.9	665.3	665.7	666.0
170°	670.7	669.7	669.8	669.9	670.1	670.2	670.6	670.9	671.3	671.7	672.1
172.5°	674.8	673.9	674.0	674.2	674.3	674.4	674.7	675.0	675.4	675.8	676.2
175°	679.2	678.3	678.6	678.9	679.1	679.4	679.7	680.1	680.4	680.9	681.3
177.5°	681.7	681.1	681.3	681.5	681.7	681.9	682.1	682.4	682.7	683.0	683.4
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331712-840

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1939.6	1941.3	1952.0	1956.8	1966.5	1970.2	1974.5	1973.5	1973.5	1975.6	1990.6
5°	1943.8	1957.2	1977.3	1996.8	2015.5	2031.6	2042.4	2053.1	2057.1	2076.5	2094.0
7.5°	1936.8	1961.6	1994.8	2024.4	2059.9	2087.6	2110.7	2131.4	2145.7	2173.9	2202.9
10°	1927.7	1962.6	2000.1	2038.3	2087.2	2124.0	2161.6	2190.4	2199.8	2242.0	2266.1
12.5°	1909.6	1956.1	2003.9	2053.4	2101.1	2151.9	2193.2	2222.0	2255.0	2292.9	2337.4
15°	1882.2	1935.8	1998.1	2061.7	2130.1	2191.7	2235.9	2286.2	2322.4	2364.0	2402.8
17.5°	1842.9	1912.0	1991.2	2064.9	2143.9	2210.1	2271.0	2319.2	2344.6	2368.3	2374.1
20°	1811.8	1886.2	1979.3	2066.5	2145.6	2221.9	2282.2	2322.4	2329.2	2329.8	2294.3
22.5°	1778.1	1862.1	1959.5	2048.7	2143.3	2228.4	2275.2	2292.4	2265.8	2220.4	2151.7
25°	1716.0	1813.2	1926.4	2028.2	2131.4	2211.8	2228.0	2197.8	2104.7	2006.8	1882.9
27.5°	1648.7	1758.0	1879.4	1992.6	2102.5	2152.3	2117.7	2008.9	1841.2	1695.4	1518.6
30°	1599.4	1722.0	1841.3	1967.9	2069.8	2091.2	2011.6	1851.4	1655.7	1435.9	1259.7
32.5°	1543.2	1671.6	1802.7	1933.7	2018.9	1997.9	1866.2	1669.1	1439.7	1223.7	1057.1
35°	1462.7	1595.4	1736.8	1868.1	1922.4	1831.9	1635.0	1378.3	1143.8	942.1	827.5
37.5°	1369.9	1514.3	1661.3	1781.9	1778.1	1627.3	1359.0	1094.1	897.0	777.7	696.1
40°	1303.9	1450.0	1608.8	1710.6	1667.1	1470.8	1179.9	930.0	786.0	690.8	631.2
42.5°	1240.7	1387.3	1545.0	1626.0	1550.2	1308.9	1019.2	823.3	704.5	630.3	581.9
45°	1133.1	1287.9	1433.9	1478.8	1343.4	1077.4	824.2	682.2	603.1	548.1	514.6
47.5°	1027.8	1180.1	1313.4	1314.2	1131.1	873.7	695.3	590.4	522.8	480.3	456.0
50°	963.5	1108.2	1220.1	1202.7	995.0	777.3	621.8	531.4	475.0	442.2	416.8
52.5°	891.2	1031.6	1128.5	1078.9	879.8	684.0	555.8	479.9	433.2	404.8	381.9
55°	786.0	910.6	979.0	903.9	717.6	568.9	469.7	410.1	375.3	351.1	331.6
57.5°	682.7	785.5	828.5	741.0	591.1	471.7	397.4	352.5	318.0	300.7	290.6
60°	617.8	705.6	735.7	639.2	513.9	412.7	351.7	310.2	284.8	273.4	263.4
62.5°	554.0	625.7	638.1	549.7	448.0	361.3	308.9	273.8	256.9	246.0	236.5
65°	459.7	511.3	505.2	434.2	354.5	286.8	248.6	227.1	214.4	199.0	182.3
67.5°	378.4	409.9	390.9	337.7	270.5	222.9	197.9	181.7	165.9	151.3	147.4
70°	327.0	345.1	325.0	276.1	221.8	186.9	166.8	147.4	138.0	134.7	128.7
72.5°	277.7	284.0	262.3	220.4	180.5	154.8	135.2	124.3	119.3	116.4	112.6
75°	208.4	203.7	184.9	152.1	125.3	107.9	101.9	97.9	94.5	91.8	89.8
77.5°	146.3	139.5	122.8	101.3	87.3	79.0	75.3	73.2	71.6	70.2	68.2
80°	109.9	105.2	88.5	72.4	66.3	62.3	60.3	57.7	57.7	56.2	54.2
82.5°	80.4	75.1	60.6	53.0	49.7	47.3	45.8	44.2	43.7	43.9	42.5
85°	42.2	34.1	30.2	28.8	26.8	25.4	26.2	24.7	24.7	24.7	24.1
87.5°	13.3	10.9	10.7	10.5	11.4	12.0	12.0	12.6	13.6	13.1	13.5
90°	2.1	3.6	5.2	6.8	8.9	11.7	14.5	17.4	20.2	19.9	19.7
92.5°	11.4	12.5	13.6	14.7	15.7	16.4	17.0	17.7	18.3	18.4	18.4
95°	31.2	32.5	33.8	35.0	35.9	36.1	36.4	36.6	36.9	36.9	36.9
97.5°	55.8	57.0	58.1	59.2	60.0	60.5	61.0	61.5	62.0	62.0	62.0
100°	74.1	75.1	76.2	77.3	78.0	78.4	78.7	79.1	79.5	79.5	79.5
102.5°	93.3	94.1	94.9	95.7	96.4	96.9	97.4	97.9	98.4	98.5	98.6
105°	124.2	124.6	124.9	125.3	125.6	125.9	126.1	126.4	126.7	126.9	127.2
107.5°	155.9	156.5	157.0	157.6	157.9	157.9	157.9	157.9	157.9	158.0	158.1
110°	176.4	177.1	177.9	178.7	179.0	179.0	179.0	179.0	179.0	179.0	179.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	198.5	199.2	200.1	200.9	201.2	201.1	201.0	200.9	200.8	200.5	200.2
115°	231.2	231.9	232.7	233.4	233.7	233.4	233.2	232.9	232.7	232.6	232.4
117.5°	263.9	264.9	265.9	266.9	267.1	266.4	265.6	264.9	264.2	263.9	263.6
120°	285.5	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5	284.5	284.5
122.5°	305.5	306.8	308.0	309.2	309.4	308.7	308.0	307.3	306.6	306.3	306.0
125°	336.3	337.5	338.6	339.7	340.1	339.7	339.4	339.0	338.6	338.2	337.8
127.5°	366.7	368.1	369.6	371.0	371.5	371.1	370.6	370.2	369.7	369.2	368.8
130°	385.8	387.4	389.1	390.7	391.4	391.2	390.9	390.7	390.4	390.2	389.9
132.5°	406.7	408.0	409.4	410.7	411.4	411.5	411.5	411.6	411.6	411.1	410.5
135°	435.0	436.5	437.9	439.3	440.1	440.3	440.6	440.9	441.1	441.0	440.9
137.5°	464.6	465.7	467.0	468.1	468.8	469.2	469.5	469.8	470.1	470.0	469.9
140°	482.6	483.7	484.8	486.0	487.0	487.6	488.2	488.9	489.5	489.5	489.5
142.5°	501.0	502.2	503.3	504.4	505.2	505.7	506.1	506.5	507.0	507.1	507.2
145°	527.3	528.2	529.1	530.0	530.8	531.5	532.3	533.1	533.8	533.9	534.1
147.5°	551.0	552.1	553.2	554.2	555.0	555.5	556.0	556.5	557.1	557.3	557.6
150°	566.8	567.6	568.4	569.2	569.8	570.3	570.8	571.3	571.9	572.2	572.6
152.5°	581.2	581.9	582.7	583.4	584.1	584.7	585.3	585.9	586.6	587.0	587.5
155°	602.2	602.6	602.9	603.3	603.7	604.1	604.5	604.8	605.2	605.9	606.5
157.5°	620.4	620.6	620.9	621.2	621.4	621.6	621.9	622.1	622.3	623.2	624.0
160°	631.4	631.7	631.9	632.2	632.4	632.5	632.6	632.8	632.9	633.7	634.4
162.5°	641.4	641.4	641.5	641.5	641.6	641.7	641.9	642.0	642.1	643.0	643.8
165°	654.6	654.5	654.4	654.3	654.2	654.2	654.2	654.2	654.2	655.1	656.0
167.5°	665.7	665.3	664.9	664.5	664.3	664.3	664.3	664.2	664.2	665.1	666.0
170°	671.7	671.3	670.9	670.6	670.2	670.1	669.9	669.8	669.7	670.7	671.6
172.5°	675.8	675.4	675.0	674.7	674.4	674.3	674.2	674.0	673.9	674.8	675.7
175°	680.9	680.4	680.1	679.7	679.4	679.1	678.9	678.6	678.3	679.2	680.1
177.5°	683.0	682.7	682.4	682.1	681.9	681.7	681.5	681.3	681.1	681.7	682.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1996.0	2003.0	2006.1	2006.1	2009.9	2008.3	2006.7
5°	2110.7	2123.4	2126.1	2138.2	2146.9	2144.1	2145.6
7.5°	2224.7	2245.2	2265.4	2274.7	2276.1	2281.5	2283.5
10°	2294.9	2311.7	2343.2	2338.4	2362.0	2375.3	2353.2
12.5°	2362.5	2385.1	2407.0	2413.0	2426.3	2430.5	2421.9
15°	2423.6	2435.7	2437.0	2433.7	2437.6	2434.3	2421.6
17.5°	2366.5	2346.9	2307.2	2288.5	2273.6	2251.7	2242.8
20°	2272.2	2214.5	2147.5	2120.7	2089.2	2027.6	2042.4
22.5°	2068.5	2002.8	1935.8	1857.5	1820.2	1761.7	1758.2
25°	1751.5	1638.3	1513.7	1426.5	1375.6	1317.4	1291.8
27.5°	1361.8	1219.2	1117.1	1065.4	1018.3	972.1	970.3
30°	1105.6	998.4	919.3	875.0	846.3	826.9	830.9
32.5°	931.9	858.5	805.2	768.4	747.1	732.5	732.3
35°	761.8	711.6	677.4	662.0	646.6	635.9	636.5
37.5°	652.0	621.8	602.8	585.7	576.1	570.9	567.9
40°	595.7	570.9	556.1	546.1	538.1	530.7	529.4
42.5°	551.2	530.7	515.9	508.1	500.5	495.3	493.9
45°	489.2	472.4	459.0	450.3	447.0	442.2	442.2
47.5°	435.2	418.7	408.2	402.7	397.0	393.8	393.7
50°	398.7	386.0	376.6	373.2	368.5	366.5	365.9
52.5°	366.0	356.5	349.8	347.5	345.5	343.0	343.4
55°	321.6	316.3	313.6	311.5	308.2	304.2	306.9
57.5°	284.3	279.6	272.5	266.1	263.1	260.2	261.4
60°	258.0	248.6	239.2	231.9	229.8	223.8	223.8
62.5°	224.7	211.6	200.1	195.9	193.9	191.1	190.6
65°	172.9	167.5	164.8	162.2	160.8	160.8	159.5
67.5°	143.3	141.1	138.1	137.5	136.1	135.7	135.3
70°	126.6	123.9	122.6	122.0	120.6	121.3	119.3
72.5°	110.6	108.5	108.2	106.4	105.6	105.7	104.2
75°	87.2	87.2	86.4	85.7	84.4	83.7	84.4
77.5°	67.1	67.2	65.9	65.8	65.6	65.8	65.1
80°	53.6	54.2	53.6	52.9	52.3	52.9	52.3
82.5°	42.3	41.4	41.3	41.1	41.0	40.6	40.5
85°	24.1	24.7	24.1	23.4	23.4	23.4	24.1
87.5°	13.0	12.9	12.9	12.9	13.0	13.0	12.5
90°	19.4	19.1	19.1	19.2	19.3	19.5	19.6
92.5°	18.5	18.5	18.6	18.6	18.6	18.7	18.7
95°	36.9	36.9	36.8	36.5	36.3	36.0	35.7
97.5°	62.0	62.0	61.9	61.9	61.9	61.9	61.8
100°	79.5	79.5	79.4	79.3	79.2	79.1	78.9
102.5°	98.7	98.8	98.8	98.7	98.5	98.4	98.3
105°	127.4	127.7	127.8	127.8	127.8	127.8	127.8
107.5°	158.2	158.3	158.0	157.4	156.9	156.3	155.7
110°	179.0	179.0	178.9	178.5	178.1	177.7	177.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	199.9	199.5	199.2	198.9	198.6	198.3	198.1
115°	232.3	232.2	231.9	231.5	231.2	230.8	230.4
117.5°	263.3	263.0	262.7	262.3	261.9	261.5	261.1
120°	284.5	284.5	284.3	283.9	283.6	283.2	282.8
122.5°	305.7	305.4	305.1	304.8	304.5	304.3	304.0
125°	337.5	337.1	336.8	336.7	336.6	336.4	336.3
127.5°	368.3	367.9	367.4	367.0	366.6	366.2	365.8
130°	389.7	389.4	389.0	388.5	388.0	387.5	387.0
132.5°	409.9	409.4	408.9	408.5	408.1	407.7	407.3
135°	440.7	440.6	440.3	440.0	439.6	439.2	438.8
137.5°	469.8	469.7	469.4	468.9	468.4	467.9	467.4
140°	489.5	489.5	489.3	488.7	488.2	487.7	487.2
142.5°	507.3	507.4	507.2	506.6	506.1	505.6	505.1
145°	534.2	534.3	534.1	533.6	533.1	532.6	532.1
147.5°	558.0	558.3	558.2	557.6	557.1	556.6	556.1
150°	573.0	573.4	573.4	573.0	572.6	572.2	571.9
152.5°	588.0	588.5	588.5	588.0	587.5	587.0	586.6
155°	607.1	607.8	607.9	607.5	607.1	606.7	606.4
157.5°	624.9	625.8	625.9	625.3	624.7	624.1	623.4
160°	635.2	635.9	636.1	635.6	635.1	634.5	634.0
162.5°	644.7	645.6	645.7	645.1	644.5	643.9	643.3
165°	656.9	657.7	657.9	657.2	656.6	656.0	655.3
167.5°	666.9	667.8	667.9	667.2	666.6	665.9	665.2
170°	672.5	673.3	673.4	672.6	671.9	671.1	670.3
172.5°	676.6	677.4	677.5	676.8	676.0	675.2	674.5
175°	681.1	682.0	682.1	681.3	680.4	679.7	678.9
177.5°	682.9	683.5	683.5	682.9	682.3	681.7	681.1
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4

(END OF REPORT)