

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: P332689-940

Luminaire Tested: **SA4XXDIP-C1195D810U940-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332689-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

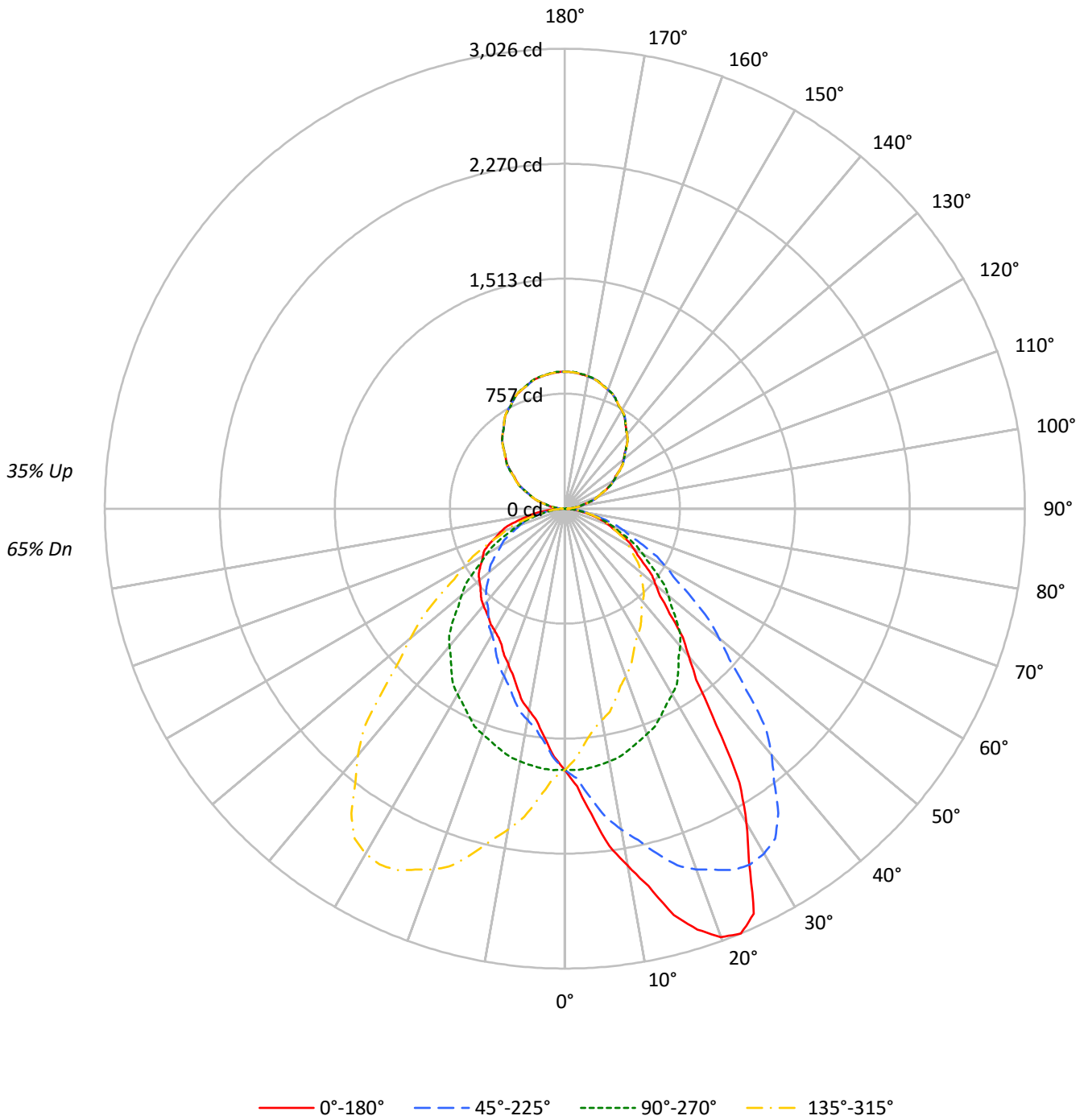
Lumens per Lamp: N/A
Luminaire Lumens: 7245.3 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

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	0
RCR																		
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	65
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	71	67	64	63	60	57	55	53	51	47
3	85	75	68	62	80	71	65	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	53	73	63	56	51	57	51	46	50	46	42	44	41	38	35
5	72	60	52	46	67	57	49	44	51	45	40	45	40	37	40	36	33	30
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	37	33	29	27
7	61	49	41	35	58	46	39	34	42	36	31	37	32	29	33	29	26	24
8	57	44	37	31	54	42	35	30	38	32	28	34	29	26	31	27	24	21
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	28	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13875	13875	13875	13875
5°	16339	13910	12277	13910
10°	19563	13849	11053	13849
15°	23147	13709	10151	13709
20°	25775	13566	9346	13566
25°	26191	13356	8790	13356
30°	22287	13154	8614	13154
35°	17134	12827	8615	12827
40°	13355	12440	8778	12440
45°	11136	11860	8926	11860
50°	9800	11150	9229	11150
55°	8978	10301	9600	10301
60°	8414	9541	10046	9541
65°	7834	8692	10418	8692
70°	7159	7848	10655	7848
75°	6394	6906	10524	6906
80°	5360	5658	10195	5658
85°	3955	4085	9763	4085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	2.3
10°-20°	516.1	7.1
20°-30°	818.4	11.3
30°-40°	910.7	12.6
40°-50°	829.0	11.4
50°-60°	677.5	9.4
60°-70°	483.6	6.7
70°-80°	266.3	3.7
80°-90°	75.4	1.0
90°-100°	59.5	0.8
100°-110°	176.1	2.4
110°-120°	298.9	4.1
120°-130°	394.2	5.4
130°-140°	442.7	6.1
140°-150°	435.0	6.0
150°-160°	365.9	5.0
160°-170°	243.4	3.4
170°-180°	85.2	1.2
0°-30°	1501.9	20.7
0°-40°	2412.6	33.3
0°-60°	3919.1	54.1
0°-90°	4744.5	65.5
90°-120°	534.5	7.4
90°-150°	1806.3	24.9
90°-180°	2501.0	34.5
0°-180°	7245.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1719	1719	1719	1719	1719	
5°	2016	1716	1515	1716	2016	205
15°	2770	1640	1215	1640	2770	782
25°	2940	1499	987	1499	2940	1296
35°	1739	1302	874	1302	1739	1104
45°	975	1039	782	1039	975	768
55°	638	732	682	732	638	576
65°	410	455	545	455	410	406
75°	205	221	337	221	205	218
85°	43	44	105	44	43	53
90°	21	2	21	2	21	12
95°	55	42	55	42	55	57
105°	170	162	170	162	170	179
115°	301	304	301	304	301	298
125°	439	443	439	443	439	392
135°	572	571	572	571	572	441
145°	694	694	694	694	694	435
155°	794	795	794	795	794	366
165°	863	865	863	865	863	243
175°	896	900	896	900	896	85
180°	901	901	901	901	901	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1829.2	1828.5	1822.9	1821.8	1817.8	1812.7	1811.5	1802.4	1784.1	1775.6	1773.3
5°	2016.2	2030.5	2012.0	2008.4	2006.3	1982.8	1970.7	1956.4	1923.7	1904.5	1889.5
7.5°	2239.5	2241.2	2233.1	2226.6	2208.5	2188.0	2157.2	2124.5	2085.4	2044.9	2014.3
10°	2386.5	2392.2	2382.9	2381.5	2345.2	2322.4	2276.8	2238.4	2194.2	2145.1	2100.2
12.5°	2541.4	2533.4	2528.7	2498.2	2491.5	2450.0	2397.0	2357.4	2289.4	2232.8	2173.2
15°	2769.5	2753.9	2743.9	2701.9	2681.2	2623.5	2567.3	2523.9	2434.9	2350.2	2286.1
17.5°	2903.3	2919.0	2895.9	2878.7	2825.3	2784.9	2727.4	2636.3	2566.6	2461.4	2380.5
20°	3000.2	3001.6	2988.7	2971.0	2929.0	2877.7	2815.0	2715.3	2632.1	2527.5	2416.4
22.5°	3026.4	3026.6	3021.2	3004.6	2972.8	2931.2	2868.0	2784.9	2684.0	2570.2	2459.1
25°	2940.3	2937.5	2943.9	2962.4	2950.3	2937.5	2901.2	2839.3	2745.3	2624.9	2505.4
27.5°	2620.8	2640.4	2676.6	2722.2	2766.1	2799.5	2809.0	2796.2	2738.0	2639.1	2513.7
30°	2390.8	2414.9	2442.0	2487.5	2575.9	2626.4	2681.9	2723.9	2700.5	2621.5	2504.6
32.5°	2137.9	2143.9	2184.0	2235.8	2316.7	2414.0	2502.0	2587.2	2615.6	2574.1	2476.7
35°	1738.6	1748.6	1792.0	1843.3	1942.2	2061.1	2193.5	2311.7	2409.2	2448.4	2398.5
37.5°	1418.8	1447.4	1478.0	1533.1	1620.2	1727.3	1864.9	2017.9	2163.2	2260.6	2277.1
40°	1267.3	1285.0	1307.2	1349.2	1423.2	1528.6	1646.7	1821.9	1976.4	2115.9	2161.5
42.5°	1147.6	1158.1	1171.6	1209.6	1266.0	1370.8	1478.7	1632.8	1787.9	1954.7	2031.0
45°	975.4	986.1	1008.8	1030.9	1073.6	1146.2	1246.6	1373.3	1529.3	1690.1	1831.1
47.5°	851.0	857.7	871.3	894.9	931.2	979.1	1060.8	1166.6	1311.2	1467.3	1617.6
50°	780.3	786.0	796.7	818.1	845.8	888.5	955.5	1054.4	1167.6	1324.9	1472.3
52.5°	724.5	726.7	734.6	749.1	771.2	807.1	862.0	943.9	1049.1	1189.4	1336.2
55°	637.9	640.8	647.9	658.5	677.8	700.5	742.5	803.8	895.6	1017.4	1144.8
57.5°	566.7	568.7	574.7	578.8	594.6	613.1	645.4	689.2	758.8	862.0	975.8
60°	521.1	519.7	526.8	530.4	541.1	556.8	581.7	623.7	684.2	767.5	872.2
62.5°	476.7	474.7	480.7	485.4	491.5	504.9	525.3	558.2	607.3	682.6	773.0
65°	410.1	407.2	410.8	416.5	422.2	429.3	444.3	473.4	512.6	566.7	635.8
67.5°	343.1	346.2	346.7	349.6	352.8	362.6	372.7	393.4	421.1	464.3	522.9
70°	303.3	304.0	306.8	306.8	309.0	317.5	326.1	338.1	365.2	405.1	452.8
72.5°	263.4	266.4	265.3	267.5	269.1	274.8	281.1	292.6	315.7	345.3	385.6
75°	205.0	207.1	207.1	207.9	210.0	212.1	217.1	225.7	242.1	264.1	291.9
77.5°	149.5	149.8	150.8	153.4	153.4	156.8	160.5	167.3	175.4	190.6	207.5
80°	115.3	116.7	116.0	117.4	117.4	120.3	121.7	130.3	133.8	143.8	157.3
82.5°	84.6	86.0	85.9	87.8	89.0	89.5	91.6	95.0	98.5	107.4	112.9
85°	42.7	44.1	42.7	44.1	46.3	47.0	49.1	49.8	52.7	54.8	59.8
87.5°	16.7	18.4	18.3	18.8	19.9	20.3	20.7	20.0	22.0	22.5	24.4
90°	21.0	20.6	20.3	20.0	19.7	19.1	18.1	17.2	16.2	15.3	14.1
92.5°	30.9	30.8	30.6	30.4	30.2	29.9	29.2	28.7	28.2	27.6	26.8
95°	55.1	55.1	55.1	55.1	55.1	54.8	54.4	53.9	53.4	53.0	51.9
97.5°	86.3	86.3	86.3	86.3	86.3	86.1	85.4	84.9	84.4	83.8	82.5
100°	108.1	108.1	108.1	108.1	108.1	107.9	107.6	107.3	107.0	106.6	105.2
102.5°	132.6	132.5	132.3	132.2	132.1	131.8	131.3	131.0	130.5	130.1	128.9
105°	170.1	169.6	169.2	168.7	168.3	167.7	167.3	166.8	166.4	165.9	165.3
107.5°	206.6	206.7	206.7	206.7	206.8	206.5	206.1	205.7	205.3	204.8	204.7
110°	232.8	232.4	231.9	231.5	231.0	230.9	231.2	231.5	231.8	232.1	232.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	259.6	259.5	259.4	259.3	259.2	259.2	259.3	259.3	259.4	259.5	259.8
115°	301.1	301.3	301.5	301.7	301.8	301.9	302.1	302.2	302.4	302.6	302.8
117.5°	340.7	341.1	341.3	341.7	342.0	342.4	343.0	343.5	344.0	344.6	344.7
120°	370.9	370.6	370.2	370.0	369.6	369.9	370.6	371.4	372.2	373.0	373.4
122.5°	396.0	396.5	397.1	397.6	398.2	398.8	399.3	399.8	400.3	400.8	401.1
125°	439.2	439.5	439.8	440.1	440.4	440.8	441.0	441.4	441.7	442.0	442.1
127.5°	479.2	479.5	479.7	479.9	480.2	480.5	480.8	481.1	481.4	481.7	482.0
130°	505.4	506.0	506.7	507.3	507.9	508.4	508.6	509.0	509.3	509.6	509.6
132.5°	533.3	533.5	533.8	534.0	534.3	534.6	534.8	535.2	535.5	535.8	535.9
135°	571.7	572.1	572.6	573.0	573.5	573.9	574.2	574.5	574.8	575.2	575.2
137.5°	612.0	611.8	611.7	611.6	611.5	611.7	612.2	612.5	613.0	613.3	613.1
140°	636.5	636.6	636.8	636.9	637.1	637.2	637.4	637.6	637.8	637.8	637.8
142.5°	661.0	661.0	661.1	661.1	661.1	661.2	661.2	661.2	661.3	661.3	661.4
145°	694.4	694.8	695.3	695.7	696.2	696.5	696.7	696.8	697.0	697.1	697.0
147.5°	728.1	728.3	728.3	728.5	728.7	728.8	729.0	729.1	729.2	729.3	729.4
150°	748.7	748.9	749.0	749.2	749.3	749.4	749.4	749.4	749.4	749.4	749.4
152.5°	767.7	768.1	768.5	768.9	769.3	769.3	768.9	768.6	768.2	767.9	767.7
155°	794.1	794.6	795.2	795.9	796.5	796.5	795.9	795.2	794.6	794.1	794.2
157.5°	817.6	818.1	818.7	819.2	819.7	819.7	819.3	818.8	818.3	817.9	817.9
160°	831.0	831.8	832.5	833.3	834.1	834.2	833.7	833.3	832.9	832.4	832.5
162.5°	844.9	845.7	846.5	847.2	848.0	848.0	847.1	846.3	845.5	844.6	844.8
165°	863.1	863.6	864.2	864.9	865.5	865.4	864.4	863.5	862.6	861.7	861.9
167.5°	876.0	877.0	877.9	878.9	879.9	879.9	879.0	878.0	877.1	876.1	876.1
170°	883.2	884.3	885.5	886.5	887.6	887.7	886.7	885.8	884.8	884.0	883.8
172.5°	889.4	890.5	891.5	892.7	893.8	893.8	892.7	891.6	890.6	889.6	889.5
175°	895.8	896.9	898.0	899.0	900.2	900.2	899.0	898.0	896.9	895.8	896.0
177.5°	899.1	900.2	901.2	902.1	903.1	903.2	902.3	901.4	900.5	899.7	899.7
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1773.9	1765.9	1760.2	1755.7	1743.1	1735.7	1730.0	1722.1	1713.0	1703.3	1691.3
5°	1874.6	1850.4	1832.6	1805.5	1779.9	1758.5	1736.4	1716.5	1692.3	1666.0	1646.7
7.5°	1980.4	1944.4	1898.2	1858.2	1813.2	1774.1	1739.0	1703.2	1665.8	1629.7	1596.5
10°	2047.5	2001.3	1950.0	1889.5	1832.6	1782.0	1735.0	1689.4	1645.3	1601.2	1563.4
12.5°	2120.0	2062.3	1986.5	1915.8	1851.9	1784.3	1727.6	1671.8	1618.5	1572.2	1528.1
15°	2217.1	2133.7	2046.1	1951.4	1867.4	1788.4	1710.8	1640.3	1580.6	1519.3	1476.6
17.5°	2276.7	2173.6	2073.5	1974.5	1872.9	1773.2	1689.4	1608.2	1533.3	1472.5	1418.6
20°	2316.0	2213.5	2088.8	1989.9	1868.8	1766.4	1669.6	1579.1	1500.8	1436.0	1380.5
22.5°	2350.2	2231.7	2107.1	1976.8	1856.4	1747.6	1641.6	1550.6	1470.6	1402.4	1349.2
25°	2368.7	2232.7	2097.4	1967.8	1831.1	1702.3	1606.1	1499.4	1413.9	1342.0	1285.0
27.5°	2370.7	2225.3	2072.2	1928.2	1787.2	1667.1	1545.8	1450.4	1361.6	1285.7	1231.0
30°	2364.4	2212.8	2048.3	1892.4	1750.7	1620.4	1515.0	1411.1	1320.7	1245.2	1188.2
32.5°	2344.5	2186.6	2017.5	1852.5	1705.7	1578.2	1469.5	1370.6	1282.5	1208.2	1148.3
35°	2286.8	2130.8	1950.7	1779.1	1629.0	1500.1	1401.9	1301.5	1213.2	1142.7	1085.0
37.5°	2196.6	2055.7	1872.6	1695.1	1547.5	1418.1	1320.7	1229.9	1150.4	1078.8	1019.7
40°	2118.1	1994.2	1810.5	1637.4	1478.0	1354.9	1263.7	1180.4	1101.4	1033.8	977.5
42.5°	2027.5	1919.6	1750.2	1566.8	1413.1	1289.3	1200.5	1125.7	1051.2	988.7	932.6
45°	1866.0	1794.8	1635.4	1465.9	1305.7	1188.9	1104.2	1038.8	976.1	914.9	867.9
47.5°	1680.3	1645.0	1510.7	1349.9	1197.7	1082.7	1009.2	948.8	893.8	842.0	800.5
50°	1555.6	1538.6	1422.5	1267.3	1122.0	1013.8	939.8	887.8	840.8	795.2	756.1
52.5°	1432.6	1432.0	1327.4	1185.3	1050.9	946.6	873.2	824.6	783.9	746.8	711.7
55°	1244.5	1264.4	1182.6	1055.8	935.5	841.5	775.3	731.9	703.4	672.8	646.5
57.5°	1071.7	1104.8	1037.3	925.7	825.3	738.7	681.1	648.5	618.1	599.6	580.4
60°	959.0	990.3	937.6	843.6	748.9	674.9	620.1	590.9	564.5	551.8	538.2
62.5°	858.7	886.6	847.7	760.5	678.3	607.2	560.9	532.8	515.1	501.1	492.1
65°	715.5	739.0	705.5	642.2	571.7	514.8	477.0	455.0	437.8	432.1	422.2
67.5°	578.4	599.8	581.7	527.8	471.3	428.2	398.7	377.5	367.4	362.4	355.3
70°	497.0	518.3	499.1	452.1	408.7	372.4	344.6	332.5	321.8	319.7	309.7
72.5°	428.0	442.6	423.3	386.6	349.5	318.8	297.3	284.6	279.1	275.3	269.8
75°	321.1	333.9	321.1	292.6	266.3	245.0	226.4	221.4	215.0	212.9	209.3
77.5°	227.3	238.4	228.5	210.7	191.1	174.6	164.6	158.2	156.8	153.1	154.8
80°	173.7	180.8	171.6	159.4	143.8	132.4	125.3	121.7	117.4	116.0	118.9
82.5°	124.8	127.9	123.1	115.0	103.3	95.9	91.1	87.0	86.1	86.4	86.4
85°	64.8	64.1	63.4	56.3	52.7	47.7	44.9	44.1	43.4	44.9	46.3
87.5°	24.3	24.5	23.7	21.1	19.1	17.0	16.1	15.2	16.1	17.0	17.9
90°	12.8	11.6	10.3	8.9	7.2	5.5	3.8	2.1	3.8	5.5	7.2
92.5°	25.9	25.0	24.2	22.7	20.8	18.8	16.9	14.9	16.9	18.8	20.8
95°	50.8	49.8	48.7	47.4	46.0	44.6	43.2	41.8	43.2	44.6	46.0
97.5°	81.2	80.0	78.7	77.5	76.4	75.3	74.2	73.0	74.2	75.3	76.4
100°	103.9	102.5	101.1	100.0	99.4	98.8	98.2	97.6	98.2	98.8	99.4
102.5°	127.5	126.3	125.0	124.2	124.0	123.8	123.5	123.2	123.5	123.8	124.0
105°	164.7	164.1	163.5	163.1	162.9	162.7	162.6	162.5	162.6	162.7	162.9
107.5°	204.6	204.6	204.5	204.3	204.1	203.9	203.8	203.6	203.8	203.9	204.1
110°	232.5	232.6	232.7	232.6	232.4	232.0	231.8	231.5	231.8	232.0	232.4



TEST NUMBER: P332689-940

CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	260.0	260.3	260.6	260.7	260.6	260.6	260.5	260.5	260.5	260.6	260.6
115°	303.2	303.4	303.8	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0
117.5°	344.9	345.2	345.4	345.4	345.3	345.2	345.1	344.9	345.1	345.2	345.3
120°	373.9	374.3	374.8	374.8	374.2	373.5	372.9	372.3	372.9	373.5	374.2
122.5°	401.3	401.5	401.7	401.7	401.4	401.2	400.9	400.7	400.9	401.2	401.4
125°	442.3	442.5	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6
127.5°	482.2	482.4	482.7	482.6	482.1	481.7	481.2	480.7	481.2	481.7	482.1
130°	509.6	509.6	509.6	509.3	508.9	508.5	508.0	507.5	508.0	508.5	508.9
132.5°	536.1	536.2	536.3	536.2	535.8	535.6	535.2	534.8	535.2	535.6	535.8
135°	575.2	575.2	575.2	574.7	573.7	572.8	571.9	571.0	571.9	572.8	573.7
137.5°	612.9	612.6	612.3	612.0	611.5	611.1	610.7	610.3	610.7	611.1	611.5
140°	637.8	637.8	637.8	637.8	637.4	637.1	636.8	636.5	636.8	637.1	637.4
142.5°	661.6	661.6	661.8	661.7	661.4	661.1	660.8	660.5	660.8	661.1	661.4
145°	696.8	696.7	696.5	696.2	695.5	694.9	694.3	693.7	694.3	694.9	695.5
147.5°	729.6	729.7	729.9	729.5	728.8	728.0	727.3	726.6	727.3	728.0	728.8
150°	749.4	749.4	749.4	749.1	748.5	747.9	747.3	746.6	747.3	747.9	748.5
152.5°	767.6	767.4	767.3	767.0	766.7	766.3	766.0	765.6	766.0	766.3	766.7
155°	794.3	794.5	794.6	794.7	794.7	794.7	794.7	794.7	794.7	794.7	794.7
157.5°	818.0	818.0	818.0	818.1	818.4	818.7	818.9	819.3	818.9	818.7	818.4
160°	832.7	832.9	832.9	833.1	833.3	833.5	833.6	833.7	833.6	833.5	833.3
162.5°	845.0	845.1	845.3	845.5	846.0	846.3	846.8	847.1	846.8	846.3	846.0
165°	862.3	862.6	862.9	863.3	863.7	864.2	864.7	865.1	864.7	864.2	863.7
167.5°	876.1	876.0	876.0	876.4	877.0	877.6	878.2	879.0	878.2	877.6	877.0
170°	883.7	883.5	883.3	883.7	884.4	885.2	886.0	886.7	886.0	885.2	884.4
172.5°	889.5	889.5	889.4	889.7	890.4	891.0	891.7	892.3	891.7	891.0	890.4
175°	896.1	896.3	896.4	896.9	897.7	898.4	899.2	900.0	899.2	898.4	897.7
177.5°	899.7	899.7	899.7	900.0	900.6	901.3	901.9	902.5	901.9	901.3	900.6
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



TEST NUMBER: P332689-940

CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1685.6	1680.5	1673.1	1662.9	1654.3	1645.2	1642.9	1639.5	1646.3	1640.7	1638.9
5°	1630.4	1615.4	1596.2	1574.1	1561.3	1542.8	1539.3	1532.1	1525.0	1524.3	1517.2
7.5°	1571.8	1549.9	1524.7	1502.2	1481.4	1461.2	1448.0	1445.1	1434.6	1428.4	1421.3
10°	1534.3	1507.2	1478.0	1456.7	1432.4	1411.1	1396.2	1387.6	1380.5	1372.6	1365.6
12.5°	1489.9	1461.1	1437.0	1413.9	1385.2	1369.0	1344.3	1329.5	1328.1	1328.2	1309.7
15°	1438.2	1409.7	1372.6	1339.9	1324.2	1292.9	1279.3	1262.3	1251.6	1240.9	1232.4
17.5°	1379.0	1343.6	1314.6	1277.1	1247.2	1222.3	1204.5	1194.3	1178.1	1163.1	1152.1
20°	1342.0	1304.3	1273.7	1233.8	1201.0	1170.5	1155.5	1141.3	1129.2	1116.3	1104.2
22.5°	1304.4	1265.0	1227.5	1188.8	1158.3	1126.1	1111.6	1092.3	1080.8	1073.6	1061.5
25°	1245.2	1202.5	1159.8	1122.8	1091.5	1062.9	1043.7	1028.8	1015.9	1010.2	1002.5
27.5°	1180.8	1138.4	1097.2	1055.1	1019.5	998.9	983.5	972.2	964.8	957.3	953.8
30°	1139.9	1095.7	1051.6	1012.4	979.6	959.0	944.8	936.9	931.2	927.6	924.1
32.5°	1098.2	1054.7	1008.3	972.5	943.2	924.8	914.0	906.2	903.3	902.1	900.8
35°	1031.6	987.5	944.8	912.8	884.9	877.8	868.6	864.3	862.9	867.9	870.0
37.5°	967.1	926.1	886.8	855.8	837.6	827.2	824.0	824.1	829.3	833.7	838.8
40°	925.5	885.6	848.6	821.6	804.5	798.1	796.7	800.2	805.9	810.9	816.6
42.5°	885.1	845.8	812.2	786.8	774.9	769.0	769.9	773.5	781.4	787.6	796.1
45°	822.3	789.5	756.8	736.2	726.2	727.6	727.6	734.1	741.8	751.1	760.4
47.5°	763.2	730.2	703.3	685.9	680.7	679.5	683.5	691.9	703.1	714.5	727.5
50°	723.4	692.1	668.5	652.8	647.2	649.3	655.0	662.8	676.4	690.6	704.1
52.5°	682.9	654.4	632.7	618.1	614.1	618.0	623.7	636.1	647.9	663.3	679.7
55°	620.1	595.9	578.8	568.1	566.7	568.8	575.2	588.8	605.8	625.1	640.8
57.5°	557.6	537.3	521.7	514.3	515.1	517.0	527.5	543.7	561.9	582.4	602.6
60°	515.4	497.0	484.1	478.4	479.1	483.4	496.2	511.2	534.0	553.9	575.2
62.5°	475.5	459.3	447.1	442.0	441.0	450.4	462.6	478.1	501.0	523.2	546.2
65°	411.5	398.7	388.7	385.8	388.0	395.1	410.8	431.4	450.7	474.1	498.4
67.5°	348.8	338.3	331.4	332.8	335.4	345.9	359.0	376.7	398.6	422.9	446.8
70°	309.0	299.0	293.3	294.0	298.3	311.1	322.5	340.3	363.8	388.7	408.7
72.5°	268.0	261.4	256.3	259.3	263.6	272.4	286.6	304.4	325.1	348.3	369.3
75°	205.7	205.7	202.9	205.0	211.4	220.0	230.7	249.1	269.8	288.4	305.4
77.5°	152.7	151.1	152.9	155.5	159.2	169.3	181.6	194.7	210.4	228.8	242.9
80°	116.7	117.4	121.0	125.3	126.7	134.6	147.4	159.4	171.6	187.3	200.8
82.5°	87.7	88.5	90.2	95.7	97.1	105.5	113.8	125.9	136.9	147.4	158.6
85°	47.7	47.7	51.3	53.4	57.0	62.7	67.6	74.7	84.7	91.8	102.5
87.5°	20.0	20.3	22.8	24.3	26.1	29.2	30.6	37.0	39.5	42.5	47.8
90°	8.9	10.3	11.6	12.8	14.1	15.3	16.2	17.2	18.1	19.1	19.7
92.5°	22.7	24.2	25.0	25.9	26.8	27.6	28.2	28.7	29.2	29.9	30.2
95°	47.4	48.7	49.8	50.8	51.9	53.0	53.4	53.9	54.4	54.8	55.1
97.5°	77.5	78.7	80.0	81.2	82.5	83.8	84.4	84.9	85.4	86.1	86.3
100°	100.0	101.1	102.5	103.9	105.2	106.6	107.0	107.3	107.6	107.9	108.1
102.5°	124.2	125.0	126.3	127.5	128.9	130.1	130.5	131.0	131.3	131.8	132.1
105°	163.1	163.5	164.1	164.7	165.3	165.9	166.4	166.8	167.3	167.7	168.3
107.5°	204.3	204.5	204.6	204.6	204.7	204.8	205.3	205.7	206.1	206.5	206.8
110°	232.6	232.7	232.6	232.5	232.3	232.1	231.8	231.5	231.2	230.9	231.0



TEST NUMBER: P332689-940

CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	260.7	260.6	260.3	260.0	259.8	259.5	259.4	259.3	259.3	259.2	259.2
115°	304.0	303.8	303.4	303.2	302.8	302.6	302.4	302.2	302.1	301.9	301.8
117.5°	345.4	345.4	345.2	344.9	344.7	344.6	344.0	343.5	343.0	342.4	342.0
120°	374.8	374.8	374.3	373.9	373.4	373.0	372.2	371.4	370.6	369.9	369.6
122.5°	401.7	401.7	401.5	401.3	401.1	400.8	400.3	399.8	399.3	398.8	398.2
125°	442.6	442.6	442.5	442.3	442.1	442.0	441.7	441.4	441.0	440.8	440.4
127.5°	482.6	482.7	482.4	482.2	482.0	481.7	481.4	481.1	480.8	480.5	480.2
130°	509.3	509.6	509.6	509.6	509.6	509.6	509.3	509.0	508.6	508.4	507.9
132.5°	536.2	536.3	536.2	536.1	535.9	535.8	535.5	535.2	534.8	534.6	534.3
135°	574.7	575.2	575.2	575.2	575.2	575.2	574.8	574.5	574.2	573.9	573.5
137.5°	612.0	612.3	612.6	612.9	613.1	613.3	613.0	612.5	612.2	611.7	611.5
140°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.6	637.4	637.2	637.1
142.5°	661.7	661.8	661.6	661.6	661.4	661.3	661.3	661.2	661.2	661.2	661.1
145°	696.2	696.5	696.7	696.8	697.0	697.1	697.0	696.8	696.7	696.5	696.2
147.5°	729.5	729.9	729.7	729.6	729.4	729.3	729.2	729.1	729.0	728.8	728.7
150°	749.1	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.3
152.5°	767.0	767.3	767.4	767.6	767.7	767.9	768.2	768.6	768.9	769.3	769.3
155°	794.7	794.6	794.5	794.3	794.2	794.1	794.6	795.2	795.9	796.5	796.5
157.5°	818.1	818.0	818.0	818.0	817.9	817.9	818.3	818.8	819.3	819.7	819.7
160°	833.1	832.9	832.9	832.7	832.5	832.4	832.9	833.3	833.7	834.2	834.1
162.5°	845.5	845.3	845.1	845.0	844.8	844.6	845.5	846.3	847.1	848.0	848.0
165°	863.3	862.9	862.6	862.3	861.9	861.7	862.6	863.5	864.4	865.4	865.5
167.5°	876.4	876.0	876.0	876.1	876.1	876.1	877.1	878.0	879.0	879.9	879.9
170°	883.7	883.3	883.5	883.7	883.8	884.0	884.8	885.8	886.7	887.7	887.6
172.5°	889.7	889.4	889.5	889.5	889.5	889.6	890.6	891.6	892.7	893.8	893.8
175°	896.9	896.4	896.3	896.1	896.0	895.8	896.9	898.0	899.0	900.2	900.2
177.5°	900.0	899.7	899.7	899.7	899.7	899.7	900.5	901.4	902.3	903.2	903.1
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



TEST NUMBER: P332689-940

CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1637.8	1636.6	1632.6	1632.1	1632.6	1636.6	1637.8	1638.9	1640.7	1646.3	1639.5
5°	1512.9	1509.3	1507.2	1515.0	1507.2	1509.3	1512.9	1517.2	1524.3	1525.0	1532.1
7.5°	1418.8	1415.9	1409.7	1407.7	1409.7	1415.9	1418.8	1421.3	1428.4	1434.6	1445.1
10°	1358.4	1355.6	1349.9	1348.4	1349.9	1355.6	1358.4	1365.6	1372.6	1380.5	1387.6
12.5°	1300.3	1294.6	1293.5	1294.9	1293.5	1294.6	1300.3	1309.7	1328.2	1328.1	1329.5
15°	1223.2	1220.3	1212.5	1214.6	1212.5	1220.3	1223.2	1232.4	1240.9	1251.6	1262.3
17.5°	1147.1	1143.7	1134.2	1142.5	1134.2	1143.7	1147.1	1152.1	1163.1	1178.1	1194.3
20°	1099.2	1093.6	1088.6	1087.9	1088.6	1093.6	1099.2	1104.2	1116.3	1129.2	1141.3
22.5°	1053.6	1048.6	1048.1	1043.5	1048.1	1048.6	1053.6	1061.5	1073.6	1080.8	1092.3
25°	996.8	991.8	990.3	986.8	990.3	991.8	996.8	1002.5	1010.2	1015.9	1028.8
27.5°	953.1	950.6	948.1	949.1	948.1	950.6	953.1	953.8	957.3	964.8	972.2
30°	926.2	925.5	924.1	924.1	924.1	925.5	926.2	924.1	927.6	931.2	936.9
32.5°	904.0	903.9	904.7	904.7	904.7	903.9	904.0	900.8	902.1	903.3	906.2
35°	872.9	874.9	876.4	874.2	876.4	874.9	872.9	870.0	867.9	862.9	864.3
37.5°	844.6	846.8	848.8	851.2	848.8	846.8	844.6	838.8	833.7	829.3	824.1
40°	823.0	828.0	829.4	832.9	829.4	828.0	823.0	816.6	810.9	805.9	800.2
42.5°	802.5	808.1	811.7	812.4	811.7	808.1	802.5	796.1	787.6	781.4	773.5
45°	771.1	776.8	781.8	781.8	781.8	776.8	771.1	760.4	751.1	741.8	734.1
47.5°	738.4	746.7	751.7	753.0	751.7	746.7	738.4	727.5	714.5	703.1	691.9
50°	716.2	726.2	731.2	734.8	731.2	726.2	716.2	704.1	690.6	676.4	662.8
52.5°	694.6	704.5	711.2	713.1	711.2	704.5	694.6	679.7	663.3	647.9	636.1
55°	657.1	671.4	679.2	682.1	679.2	671.4	657.1	640.8	625.1	605.8	588.8
57.5°	621.8	634.9	644.0	646.1	644.0	634.9	621.8	602.6	582.4	561.9	543.7
60°	594.5	608.7	620.1	622.2	620.1	608.7	594.5	575.2	553.9	534.0	511.2
62.5°	566.6	581.4	591.7	597.2	591.7	581.4	566.6	546.2	523.2	501.0	478.1
65°	518.3	533.2	543.2	545.4	543.2	533.2	518.3	498.4	474.1	450.7	431.4
67.5°	465.7	480.5	487.1	491.2	487.1	480.5	465.7	446.8	422.9	398.6	376.7
70°	428.6	440.7	447.8	451.4	447.8	440.7	428.6	408.7	388.7	363.8	340.3
72.5°	386.5	399.1	407.4	408.0	407.4	399.1	386.5	369.3	348.3	325.1	304.4
75°	321.8	333.2	337.4	337.4	337.4	333.2	321.8	305.4	288.4	269.8	249.1
77.5°	254.8	260.6	266.0	267.2	266.0	260.6	254.8	242.9	228.8	210.4	194.7
80°	211.4	215.0	219.3	219.3	219.3	215.0	211.4	200.8	187.3	171.6	159.4
82.5°	167.0	170.0	174.3	173.7	174.3	170.0	167.0	158.6	147.4	136.9	125.9
85°	101.1	107.5	106.8	105.4	106.8	107.5	101.1	102.5	91.8	84.7	74.7
87.5°	49.6	50.2	52.0	53.1	52.0	50.2	49.6	47.8	42.5	39.5	37.0
90°	20.0	20.3	20.6	21.0	20.6	20.3	20.0	19.7	19.1	18.1	17.2
92.5°	30.4	30.6	30.8	30.9	30.8	30.6	30.4	30.2	29.9	29.2	28.7
95°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	54.8	54.4	53.9
97.5°	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.1	85.4	84.9
100°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	107.9	107.6	107.3
102.5°	132.2	132.3	132.5	132.6	132.5	132.3	132.2	132.1	131.8	131.3	131.0
105°	168.7	169.2	169.6	170.1	169.6	169.2	168.7	168.3	167.7	167.3	166.8
107.5°	206.7	206.7	206.7	206.6	206.7	206.7	206.7	206.8	206.5	206.1	205.7
110°	231.5	231.9	232.4	232.8	232.4	231.9	231.5	231.0	230.9	231.2	231.5



TEST NUMBER: P332689-940

CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	259.3	259.4	259.5	259.6	259.5	259.4	259.3	259.2	259.2	259.3	259.3
115°	301.7	301.5	301.3	301.1	301.3	301.5	301.7	301.8	301.9	302.1	302.2
117.5°	341.7	341.3	341.1	340.7	341.1	341.3	341.7	342.0	342.4	343.0	343.5
120°	370.0	370.2	370.6	370.9	370.6	370.2	370.0	369.6	369.9	370.6	371.4
122.5°	397.6	397.1	396.5	396.0	396.5	397.1	397.6	398.2	398.8	399.3	399.8
125°	440.1	439.8	439.5	439.2	439.5	439.8	440.1	440.4	440.8	441.0	441.4
127.5°	479.9	479.7	479.5	479.2	479.5	479.7	479.9	480.2	480.5	480.8	481.1
130°	507.3	506.7	506.0	505.4	506.0	506.7	507.3	507.9	508.4	508.6	509.0
132.5°	534.0	533.8	533.5	533.3	533.5	533.8	534.0	534.3	534.6	534.8	535.2
135°	573.0	572.6	572.1	571.7	572.1	572.6	573.0	573.5	573.9	574.2	574.5
137.5°	611.6	611.7	611.8	612.0	611.8	611.7	611.6	611.5	611.7	612.2	612.5
140°	636.9	636.8	636.6	636.5	636.6	636.8	636.9	637.1	637.2	637.4	637.6
142.5°	661.1	661.1	661.0	661.0	661.0	661.1	661.1	661.1	661.2	661.2	661.2
145°	695.7	695.3	694.8	694.4	694.8	695.3	695.7	696.2	696.5	696.7	696.8
147.5°	728.5	728.3	728.3	728.1	728.3	728.3	728.5	728.7	728.8	729.0	729.1
150°	749.2	749.0	748.9	748.7	748.9	749.0	749.2	749.3	749.4	749.4	749.4
152.5°	768.9	768.5	768.1	767.7	768.1	768.5	768.9	769.3	769.3	768.9	768.6
155°	795.9	795.2	794.6	794.1	794.6	795.2	795.9	796.5	796.5	795.9	795.2
157.5°	819.2	818.7	818.1	817.6	818.1	818.7	819.2	819.7	819.7	819.3	818.8
160°	833.3	832.5	831.8	831.0	831.8	832.5	833.3	834.1	834.2	833.7	833.3
162.5°	847.2	846.5	845.7	844.9	845.7	846.5	847.2	848.0	848.0	847.1	846.3
165°	864.9	864.2	863.6	863.1	863.6	864.2	864.9	865.5	865.4	864.4	863.5
167.5°	878.9	877.9	877.0	876.0	877.0	877.9	878.9	879.9	879.9	879.0	878.0
170°	886.5	885.5	884.3	883.2	884.3	885.5	886.5	887.6	887.7	886.7	885.8
172.5°	892.7	891.5	890.5	889.4	890.5	891.5	892.7	893.8	893.8	892.7	891.6
175°	899.0	898.0	896.9	895.8	896.9	898.0	899.0	900.2	900.2	899.0	898.0
177.5°	902.1	901.2	900.2	899.1	900.2	901.2	902.1	903.1	903.2	902.3	901.4
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



TEST NUMBER: P332689-940
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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1642.9	1645.2	1654.3	1662.9	1673.1	1680.5	1685.6	1691.3	1703.3	1713.0	1722.1
5°	1539.3	1542.8	1561.3	1574.1	1596.2	1615.4	1630.4	1646.7	1666.0	1692.3	1716.5
7.5°	1448.0	1461.2	1481.4	1502.2	1524.7	1549.9	1571.8	1596.5	1629.7	1665.8	1703.2
10°	1396.2	1411.1	1432.4	1456.7	1478.0	1507.2	1534.3	1563.4	1601.2	1645.3	1689.4
12.5°	1344.3	1369.0	1385.2	1413.9	1437.0	1461.1	1489.9	1528.1	1572.2	1618.5	1671.8
15°	1279.3	1292.9	1324.2	1339.9	1372.6	1409.7	1438.2	1476.6	1519.3	1580.6	1640.3
17.5°	1204.5	1222.3	1247.2	1277.1	1314.6	1343.6	1379.0	1418.6	1472.5	1533.3	1608.2
20°	1155.5	1170.5	1201.0	1233.8	1273.7	1304.3	1342.0	1380.5	1436.0	1500.8	1579.1
22.5°	1111.6	1126.1	1158.3	1188.8	1227.5	1265.0	1304.4	1349.2	1402.4	1470.6	1550.6
25°	1043.7	1062.9	1091.5	1122.8	1159.8	1202.5	1245.2	1285.0	1342.0	1413.9	1499.4
27.5°	983.5	998.9	1019.5	1055.1	1097.2	1138.4	1180.8	1231.0	1285.7	1361.6	1450.4
30°	944.8	959.0	979.6	1012.4	1051.6	1095.7	1139.9	1188.2	1245.2	1320.7	1411.1
32.5°	914.0	924.8	943.2	972.5	1008.3	1054.7	1098.2	1148.3	1208.2	1282.5	1370.6
35°	868.6	877.8	884.9	912.8	944.8	987.5	1031.6	1085.0	1142.7	1213.2	1301.5
37.5°	824.0	827.2	837.6	855.8	886.8	926.1	967.1	1019.7	1078.8	1150.4	1229.9
40°	796.7	798.1	804.5	821.6	848.6	885.6	925.5	977.5	1033.8	1101.4	1180.4
42.5°	769.9	769.0	774.9	786.8	812.2	845.8	885.1	932.6	988.7	1051.2	1125.7
45°	727.6	727.6	726.2	736.2	756.8	789.5	822.3	867.9	914.9	976.1	1038.8
47.5°	683.5	679.5	680.7	685.9	703.3	730.2	763.2	800.5	842.0	893.8	948.8
50°	655.0	649.3	647.2	652.8	668.5	692.1	723.4	756.1	795.2	840.8	887.8
52.5°	623.7	618.0	614.1	618.1	632.7	654.4	682.9	711.7	746.8	783.9	824.6
55°	575.2	568.8	566.7	568.1	578.8	595.9	620.1	646.5	672.8	703.4	731.9
57.5°	527.5	517.0	515.1	514.3	521.7	537.3	557.6	580.4	599.6	618.1	648.5
60°	496.2	483.4	479.1	478.4	484.1	497.0	515.4	538.2	551.8	564.5	590.9
62.5°	462.6	450.4	441.0	442.0	447.1	459.3	475.5	492.1	501.1	515.1	532.8
65°	410.8	395.1	388.0	385.8	388.7	398.7	411.5	422.2	432.1	437.8	455.0
67.5°	359.0	345.9	335.4	332.8	331.4	338.3	348.8	355.3	362.4	367.4	377.5
70°	322.5	311.1	298.3	294.0	293.3	299.0	309.0	309.7	319.7	321.8	332.5
72.5°	286.6	272.4	263.6	259.3	256.3	261.4	268.0	269.8	275.3	279.1	284.6
75°	230.7	220.0	211.4	205.0	202.9	205.7	205.7	209.3	212.9	215.0	221.4
77.5°	181.6	169.3	159.2	155.5	152.9	151.1	152.7	154.8	153.1	156.8	158.2
80°	147.4	134.6	126.7	125.3	121.0	117.4	116.7	118.9	116.0	117.4	121.7
82.5°	113.8	105.5	97.1	95.7	90.2	88.5	87.7	86.4	86.4	86.1	87.0
85°	67.6	62.7	57.0	53.4	51.3	47.7	47.7	46.3	44.9	43.4	44.1
87.5°	30.6	29.2	26.1	24.3	22.8	20.3	20.0	17.9	17.0	16.1	15.2
90°	16.2	15.3	14.1	12.8	11.6	10.3	8.9	7.2	5.5	3.8	2.1
92.5°	28.2	27.6	26.8	25.9	25.0	24.2	22.7	20.8	18.8	16.9	14.9
95°	53.4	53.0	51.9	50.8	49.8	48.7	47.4	46.0	44.6	43.2	41.8
97.5°	84.4	83.8	82.5	81.2	80.0	78.7	77.5	76.4	75.3	74.2	73.0
100°	107.0	106.6	105.2	103.9	102.5	101.1	100.0	99.4	98.8	98.2	97.6
102.5°	130.5	130.1	128.9	127.5	126.3	125.0	124.2	124.0	123.8	123.5	123.2
105°	166.4	165.9	165.3	164.7	164.1	163.5	163.1	162.9	162.7	162.6	162.5
107.5°	205.3	204.8	204.7	204.6	204.6	204.5	204.3	204.1	203.9	203.8	203.6
110°	231.8	232.1	232.3	232.5	232.6	232.7	232.6	232.4	232.0	231.8	231.5



TEST NUMBER: P332689-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	259.4	259.5	259.8	260.0	260.3	260.6	260.7	260.6	260.6	260.5	260.5
115°	302.4	302.6	302.8	303.2	303.4	303.8	304.0	304.0	304.0	304.0	304.0
117.5°	344.0	344.6	344.7	344.9	345.2	345.4	345.4	345.3	345.2	345.1	344.9
120°	372.2	373.0	373.4	373.9	374.3	374.8	374.8	374.2	373.5	372.9	372.3
122.5°	400.3	400.8	401.1	401.3	401.5	401.7	401.7	401.4	401.2	400.9	400.7
125°	441.7	442.0	442.1	442.3	442.5	442.6	442.6	442.6	442.6	442.6	442.6
127.5°	481.4	481.7	482.0	482.2	482.4	482.7	482.6	482.1	481.7	481.2	480.7
130°	509.3	509.6	509.6	509.6	509.6	509.6	509.3	508.9	508.5	508.0	507.5
132.5°	535.5	535.8	535.9	536.1	536.2	536.3	536.2	535.8	535.6	535.2	534.8
135°	574.8	575.2	575.2	575.2	575.2	575.2	574.7	573.7	572.8	571.9	571.0
137.5°	613.0	613.3	613.1	612.9	612.6	612.3	612.0	611.5	611.1	610.7	610.3
140°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.4	637.1	636.8	636.5
142.5°	661.3	661.3	661.4	661.6	661.6	661.8	661.7	661.4	661.1	660.8	660.5
145°	697.0	697.1	697.0	696.8	696.7	696.5	696.2	695.5	694.9	694.3	693.7
147.5°	729.2	729.3	729.4	729.6	729.7	729.9	729.5	728.8	728.0	727.3	726.6
150°	749.4	749.4	749.4	749.4	749.4	749.4	749.1	748.5	747.9	747.3	746.6
152.5°	768.2	767.9	767.7	767.6	767.4	767.3	767.0	766.7	766.3	766.0	765.6
155°	794.6	794.1	794.2	794.3	794.5	794.6	794.7	794.7	794.7	794.7	794.7
157.5°	818.3	817.9	817.9	818.0	818.0	818.0	818.1	818.4	818.7	818.9	819.3
160°	832.9	832.4	832.5	832.7	832.9	832.9	833.1	833.3	833.5	833.6	833.7
162.5°	845.5	844.6	844.8	845.0	845.1	845.3	845.5	846.0	846.3	846.8	847.1
165°	862.6	861.7	861.9	862.3	862.6	862.9	863.3	863.7	864.2	864.7	865.1
167.5°	877.1	876.1	876.1	876.1	876.0	876.0	876.4	877.0	877.6	878.2	879.0
170°	884.8	884.0	883.8	883.7	883.5	883.3	883.7	884.4	885.2	886.0	886.7
172.5°	890.6	889.6	889.5	889.5	889.5	889.4	889.7	890.4	891.0	891.7	892.3
175°	896.9	895.8	896.0	896.1	896.3	896.4	896.9	897.7	898.4	899.2	900.0
177.5°	900.5	899.7	899.7	899.7	899.7	899.7	900.0	900.6	901.3	901.9	902.5
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



TEST NUMBER: P332689-940

CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1730.0	1735.7	1743.1	1755.7	1760.2	1765.9	1773.9	1773.3	1775.6	1784.1	1802.4
5°	1736.4	1758.5	1779.9	1805.5	1832.6	1850.4	1874.6	1889.5	1904.5	1923.7	1956.4
7.5°	1739.0	1774.1	1813.2	1858.2	1898.2	1944.4	1980.4	2014.3	2044.9	2085.4	2124.5
10°	1735.0	1782.0	1832.6	1889.5	1950.0	2001.3	2047.5	2100.2	2145.1	2194.2	2238.4
12.5°	1727.6	1784.3	1851.9	1915.8	1986.5	2062.3	2120.0	2173.2	2232.8	2289.4	2357.4
15°	1710.8	1788.4	1867.4	1951.4	2046.1	2133.7	2217.1	2286.1	2350.2	2434.9	2523.9
17.5°	1689.4	1773.2	1872.9	1974.5	2073.5	2173.6	2276.7	2380.5	2461.4	2566.6	2636.3
20°	1669.6	1766.4	1868.8	1989.9	2088.8	2213.5	2316.0	2416.4	2527.5	2632.1	2715.3
22.5°	1641.6	1747.6	1856.4	1976.8	2107.1	2231.7	2350.2	2459.1	2570.2	2684.0	2784.9
25°	1606.1	1702.3	1831.1	1967.8	2097.4	2232.7	2368.7	2505.4	2624.9	2745.3	2839.3
27.5°	1545.8	1667.1	1787.2	1928.2	2072.2	2225.3	2370.7	2513.7	2639.1	2738.0	2796.2
30°	1515.0	1620.4	1750.7	1892.4	2048.3	2212.8	2364.4	2504.6	2621.5	2700.5	2723.9
32.5°	1469.5	1578.2	1705.7	1852.5	2017.5	2186.6	2344.5	2476.7	2574.1	2615.6	2587.2
35°	1401.9	1500.1	1629.0	1779.1	1950.7	2130.8	2286.8	2398.5	2448.4	2409.2	2311.7
37.5°	1320.7	1418.1	1547.5	1695.1	1872.6	2055.7	2196.6	2277.1	2260.6	2163.2	2017.9
40°	1263.7	1354.9	1478.0	1637.4	1810.5	1994.2	2118.1	2161.5	2115.9	1976.4	1821.9
42.5°	1200.5	1289.3	1413.1	1566.8	1750.2	1919.6	2027.5	2031.0	1954.7	1787.9	1632.8
45°	1104.2	1188.9	1305.7	1465.9	1635.4	1794.8	1866.0	1831.1	1690.1	1529.3	1373.3
47.5°	1009.2	1082.7	1197.7	1349.9	1510.7	1645.0	1680.3	1617.6	1467.3	1311.2	1166.6
50°	939.8	1013.8	1122.0	1267.3	1422.5	1538.6	1555.6	1472.3	1324.9	1167.6	1054.4
52.5°	873.2	946.6	1050.9	1185.3	1327.4	1432.0	1432.6	1336.2	1189.4	1049.1	943.9
55°	775.3	841.5	935.5	1055.8	1182.6	1264.4	1244.5	1144.8	1017.4	895.6	803.8
57.5°	681.1	738.7	825.3	925.7	1037.3	1104.8	1071.7	975.8	862.0	758.8	689.2
60°	620.1	674.9	748.9	843.6	937.6	990.3	959.0	872.2	767.5	684.2	623.7
62.5°	560.9	607.2	678.3	760.5	847.7	886.6	858.7	773.0	682.6	607.3	558.2
65°	477.0	514.8	571.7	642.2	705.5	739.0	715.5	635.8	566.7	512.6	473.4
67.5°	398.7	428.2	471.3	527.8	581.7	599.8	578.4	522.9	464.3	421.1	393.4
70°	344.6	372.4	408.7	452.1	499.1	518.3	497.0	452.8	405.1	365.2	338.1
72.5°	297.3	318.8	349.5	386.6	423.3	442.6	428.0	385.6	345.3	315.7	292.6
75°	226.4	245.0	266.3	292.6	321.1	333.9	321.1	291.9	264.1	242.1	225.7
77.5°	164.6	174.6	191.1	210.7	228.5	238.4	227.3	207.5	190.6	175.4	167.3
80°	125.3	132.4	143.8	159.4	171.6	180.8	173.7	157.3	143.8	133.8	130.3
82.5°	91.1	95.9	103.3	115.0	123.1	127.9	124.8	112.9	107.4	98.5	95.0
85°	44.9	47.7	52.7	56.3	63.4	64.1	64.8	59.8	54.8	52.7	49.8
87.5°	16.1	17.0	19.1	21.1	23.7	24.5	24.3	24.4	22.5	22.0	20.0
90°	3.8	5.5	7.2	8.9	10.3	11.6	12.8	14.1	15.3	16.2	17.2
92.5°	16.9	18.8	20.8	22.7	24.2	25.0	25.9	26.8	27.6	28.2	28.7
95°	43.2	44.6	46.0	47.4	48.7	49.8	50.8	51.9	53.0	53.4	53.9
97.5°	74.2	75.3	76.4	77.5	78.7	80.0	81.2	82.5	83.8	84.4	84.9
100°	98.2	98.8	99.4	100.0	101.1	102.5	103.9	105.2	106.6	107.0	107.3
102.5°	123.5	123.8	124.0	124.2	125.0	126.3	127.5	128.9	130.1	130.5	131.0
105°	162.6	162.7	162.9	163.1	163.5	164.1	164.7	165.3	165.9	166.4	166.8
107.5°	203.8	203.9	204.1	204.3	204.5	204.6	204.6	204.7	204.8	205.3	205.7
110°	231.8	232.0	232.4	232.6	232.7	232.6	232.5	232.3	232.1	231.8	231.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	260.5	260.6	260.6	260.7	260.6	260.3	260.0	259.8	259.5	259.4	259.3
115°	304.0	304.0	304.0	304.0	303.8	303.4	303.2	302.8	302.6	302.4	302.2
117.5°	345.1	345.2	345.3	345.4	345.4	345.2	344.9	344.7	344.6	344.0	343.5
120°	372.9	373.5	374.2	374.8	374.8	374.3	373.9	373.4	373.0	372.2	371.4
122.5°	400.9	401.2	401.4	401.7	401.7	401.5	401.3	401.1	400.8	400.3	399.8
125°	442.6	442.6	442.6	442.6	442.6	442.5	442.3	442.1	442.0	441.7	441.4
127.5°	481.2	481.7	482.1	482.6	482.7	482.4	482.2	482.0	481.7	481.4	481.1
130°	508.0	508.5	508.9	509.3	509.6	509.6	509.6	509.6	509.6	509.3	509.0
132.5°	535.2	535.6	535.8	536.2	536.3	536.2	536.1	535.9	535.8	535.5	535.2
135°	571.9	572.8	573.7	574.7	575.2	575.2	575.2	575.2	575.2	574.8	574.5
137.5°	610.7	611.1	611.5	612.0	612.3	612.6	612.9	613.1	613.3	613.0	612.5
140°	636.8	637.1	637.4	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.6
142.5°	660.8	661.1	661.4	661.7	661.8	661.6	661.6	661.4	661.3	661.3	661.2
145°	694.3	694.9	695.5	696.2	696.5	696.7	696.8	697.0	697.1	697.0	696.8
147.5°	727.3	728.0	728.8	729.5	729.9	729.7	729.6	729.4	729.3	729.2	729.1
150°	747.3	747.9	748.5	749.1	749.4	749.4	749.4	749.4	749.4	749.4	749.4
152.5°	766.0	766.3	766.7	767.0	767.3	767.4	767.6	767.7	767.9	768.2	768.6
155°	794.7	794.7	794.7	794.7	794.6	794.5	794.3	794.2	794.1	794.6	795.2
157.5°	818.9	818.7	818.4	818.1	818.0	818.0	818.0	817.9	817.9	818.3	818.8
160°	833.6	833.5	833.3	833.1	832.9	832.9	832.7	832.5	832.4	832.9	833.3
162.5°	846.8	846.3	846.0	845.5	845.3	845.1	845.0	844.8	844.6	845.5	846.3
165°	864.7	864.2	863.7	863.3	862.9	862.6	862.3	861.9	861.7	862.6	863.5
167.5°	878.2	877.6	877.0	876.4	876.0	876.0	876.1	876.1	876.1	877.1	878.0
170°	886.0	885.2	884.4	883.7	883.3	883.5	883.7	883.8	884.0	884.8	885.8
172.5°	891.7	891.0	890.4	889.7	889.4	889.5	889.5	889.5	889.6	890.6	891.6
175°	899.2	898.4	897.7	896.9	896.4	896.3	896.1	896.0	895.8	896.9	898.0
177.5°	901.9	901.3	900.6	900.0	899.7	899.7	899.7	899.7	899.7	900.5	901.4
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1811.5	1812.7	1817.8	1821.8	1822.9	1828.5	1829.2
5°	1970.7	1982.8	2006.3	2008.4	2012.0	2030.5	2016.2
7.5°	2157.2	2188.0	2208.5	2226.6	2233.1	2241.2	2239.5
10°	2276.8	2322.4	2345.2	2381.5	2382.9	2392.2	2386.5
12.5°	2397.0	2450.0	2491.5	2498.2	2528.7	2533.4	2541.4
15°	2567.3	2623.5	2681.2	2701.9	2743.9	2753.9	2769.5
17.5°	2727.4	2784.9	2825.3	2878.7	2895.9	2919.0	2903.3
20°	2815.0	2877.7	2929.0	2971.0	2988.7	3001.6	3000.2
22.5°	2868.0	2931.2	2972.8	3004.6	3021.2	3026.6	3026.4
25°	2901.2	2937.5	2950.3	2962.4	2943.9	2937.5	2940.3
27.5°	2809.0	2799.5	2766.1	2722.2	2676.6	2640.4	2620.8
30°	2681.9	2626.4	2575.9	2487.5	2442.0	2414.9	2390.8
32.5°	2502.0	2414.0	2316.7	2235.8	2184.0	2143.9	2137.9
35°	2193.5	2061.1	1942.2	1843.3	1792.0	1748.6	1738.6
37.5°	1864.9	1727.3	1620.2	1533.1	1478.0	1447.4	1418.8
40°	1646.7	1528.6	1423.2	1349.2	1307.2	1285.0	1267.3
42.5°	1478.7	1370.8	1266.0	1209.6	1171.6	1158.1	1147.6
45°	1246.6	1146.2	1073.6	1030.9	1008.8	986.1	975.4
47.5°	1060.8	979.1	931.2	894.9	871.3	857.7	851.0
50°	955.5	888.5	845.8	818.1	796.7	786.0	780.3
52.5°	862.0	807.1	771.2	749.1	734.6	726.7	724.5
55°	742.5	700.5	677.8	658.5	647.9	640.8	637.9
57.5°	645.4	613.1	594.6	578.8	574.7	568.7	566.7
60°	581.7	556.8	541.1	530.4	526.8	519.7	521.1
62.5°	525.3	504.9	491.5	485.4	480.7	474.7	476.7
65°	444.3	429.3	422.2	416.5	410.8	407.2	410.1
67.5°	372.7	362.6	352.8	349.6	346.7	346.2	343.1
70°	326.1	317.5	309.0	306.8	306.8	304.0	303.3
72.5°	281.1	274.8	269.1	267.5	265.3	266.4	263.4
75°	217.1	212.1	210.0	207.9	207.1	207.1	205.0
77.5°	160.5	156.8	153.4	153.4	150.8	149.8	149.5
80°	121.7	120.3	117.4	117.4	116.0	116.7	115.3
82.5°	91.6	89.5	89.0	87.8	85.9	86.0	84.6
85°	49.1	47.0	46.3	44.1	42.7	44.1	42.7
87.5°	20.7	20.3	19.9	18.8	18.3	18.4	16.7
90°	18.1	19.1	19.7	20.0	20.3	20.6	21.0
92.5°	29.2	29.9	30.2	30.4	30.6	30.8	30.9
95°	54.4	54.8	55.1	55.1	55.1	55.1	55.1
97.5°	85.4	86.1	86.3	86.3	86.3	86.3	86.3
100°	107.6	107.9	108.1	108.1	108.1	108.1	108.1
102.5°	131.3	131.8	132.1	132.2	132.3	132.5	132.6
105°	167.3	167.7	168.3	168.7	169.2	169.6	170.1
107.5°	206.1	206.5	206.8	206.7	206.7	206.7	206.6
110°	231.2	230.9	231.0	231.5	231.9	232.4	232.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	259.3	259.2	259.2	259.3	259.4	259.5	259.6
115°	302.1	301.9	301.8	301.7	301.5	301.3	301.1
117.5°	343.0	342.4	342.0	341.7	341.3	341.1	340.7
120°	370.6	369.9	369.6	370.0	370.2	370.6	370.9
122.5°	399.3	398.8	398.2	397.6	397.1	396.5	396.0
125°	441.0	440.8	440.4	440.1	439.8	439.5	439.2
127.5°	480.8	480.5	480.2	479.9	479.7	479.5	479.2
130°	508.6	508.4	507.9	507.3	506.7	506.0	505.4
132.5°	534.8	534.6	534.3	534.0	533.8	533.5	533.3
135°	574.2	573.9	573.5	573.0	572.6	572.1	571.7
137.5°	612.2	611.7	611.5	611.6	611.7	611.8	612.0
140°	637.4	637.2	637.1	636.9	636.8	636.6	636.5
142.5°	661.2	661.2	661.1	661.1	661.1	661.0	661.0
145°	696.7	696.5	696.2	695.7	695.3	694.8	694.4
147.5°	729.0	728.8	728.7	728.5	728.3	728.3	728.1
150°	749.4	749.4	749.3	749.2	749.0	748.9	748.7
152.5°	768.9	769.3	769.3	768.9	768.5	768.1	767.7
155°	795.9	796.5	796.5	795.9	795.2	794.6	794.1
157.5°	819.3	819.7	819.7	819.2	818.7	818.1	817.6
160°	833.7	834.2	834.1	833.3	832.5	831.8	831.0
162.5°	847.1	848.0	848.0	847.2	846.5	845.7	844.9
165°	864.4	865.4	865.5	864.9	864.2	863.6	863.1
167.5°	879.0	879.9	879.9	878.9	877.9	877.0	876.0
170°	886.7	887.7	887.6	886.5	885.5	884.3	883.2
172.5°	892.7	893.8	893.8	892.7	891.5	890.5	889.4
175°	899.0	900.2	900.2	899.0	898.0	896.9	895.8
177.5°	902.3	903.2	903.1	902.1	901.2	900.2	899.1
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3

(END OF REPORT)