

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: P332688-940

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

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332688-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
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-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

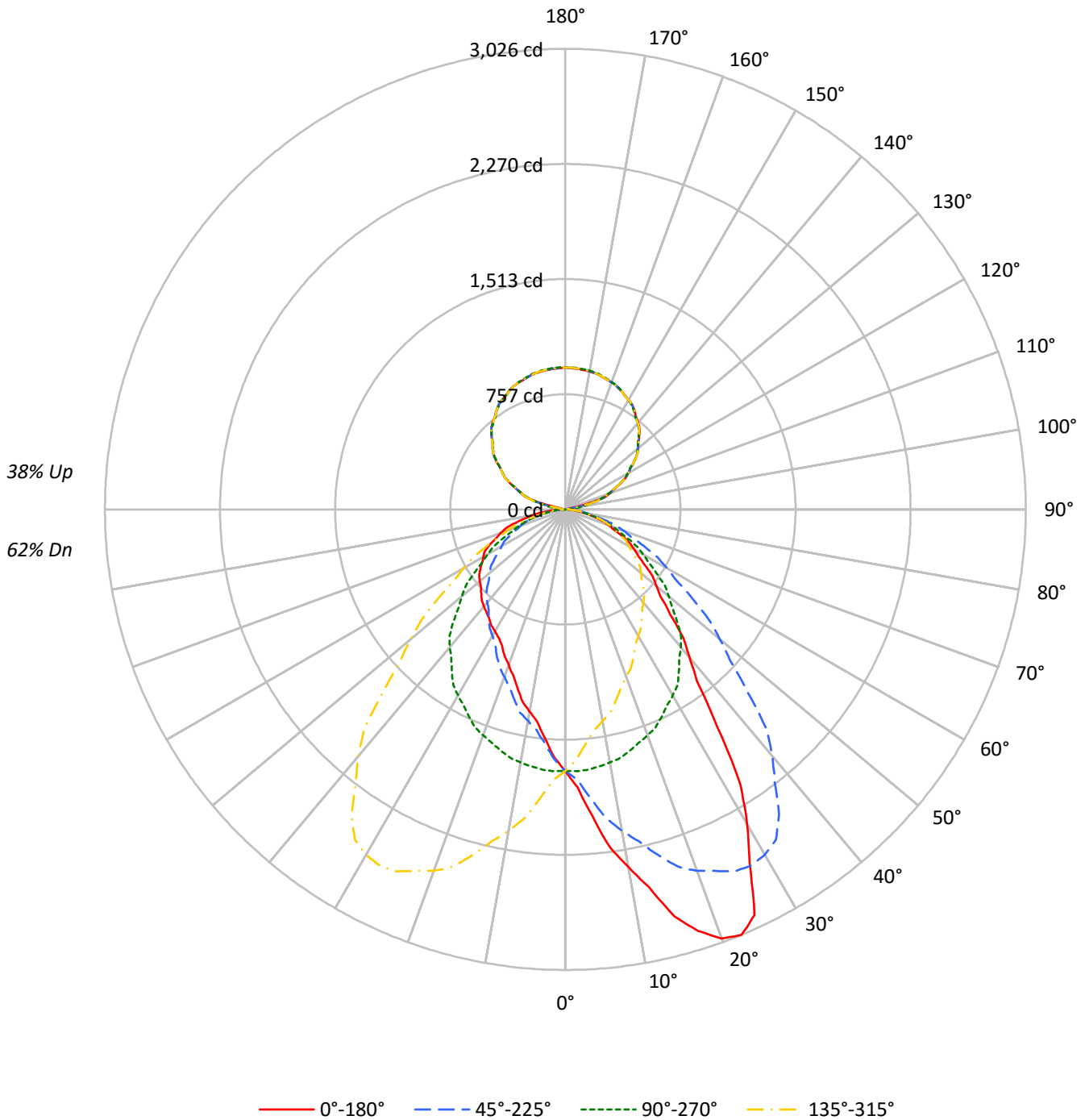
Lumens per Lamp: N/A
Luminaire Lumens: 7628.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	93	89	94	91	87	84	79	77	75	69	67	66	60	59	57	53
2	92	85	78	73	86	80	74	70	70	66	62	61	58	55	53	51	49	45
3	84	75	67	61	79	70	64	58	62	57	53	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	50	45	49	44	41	42	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	35	38	35	32	29
6	66	53	45	39	61	50	43	38	45	39	34	40	35	31	35	31	28	25
7	61	48	40	35	57	46	38	33	41	35	30	36	31	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

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	2.2
10°-20°	516.1	6.8
20°-30°	818.4	10.7
30°-40°	910.7	11.9
40°-50°	829.0	10.9
50°-60°	677.5	8.9
60°-70°	483.6	6.3
70°-80°	266.3	3.5
80°-90°	75.4	1.0
90°-100°	31.9	0.4
100°-110°	203.3	2.7
110°-120°	388.9	5.1
120°-130°	493.7	6.5
130°-140°	528.2	6.9
140°-150°	493.9	6.5
150°-160°	398.3	5.2
160°-170°	256.9	3.4
170°-180°	88.5	1.2
0°-30°	1501.9	19.7
0°-40°	2412.6	31.6
0°-60°	3919.1	51.4
0°-90°	4744.5	62.2
90°-120°	624.1	8.2
90°-150°	2139.8	28.1
90°-180°	2884.0	37.8
0°-180°	7628.0	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	11
95°	20	38	20	38	20	16
105°	199	210	199	210	199	173
115°	395	392	395	392	395	391
125°	555	551	555	551	555	494
135°	688	683	688	683	688	530
145°	792	788	792	788	792	495
155°	863	864	863	864	863	398
165°	907	911	907	911	907	256
175°	927	932	927	932	927	88
180°	932	932	932	932	932	



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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°	19.3	19.2	19.1	19.1	19.0	18.5	17.6	16.7	15.7	14.8	13.6
95°	20.2	20.1	19.9	19.8	19.6	19.1	18.1	17.2	16.2	15.3	15.2
97.5°	19.5	19.4	19.2	19.1	18.9	18.8	18.7	18.6	18.5	18.4	35.7
100°	19.5	19.4	19.2	19.1	18.9	20.2	22.7	25.4	28.0	30.7	52.1
102.5°	20.1	20.1	20.0	20.0	20.0	34.2	62.6	91.0	119.4	147.8	150.6
105°	198.7	204.3	209.8	215.4	221.1	223.1	221.7	220.3	218.9	217.5	216.8
107.5°	277.0	276.3	275.7	275.2	274.6	273.9	273.2	272.6	271.9	271.3	270.2
110°	310.9	310.5	310.0	309.6	309.1	308.7	308.4	308.1	307.8	307.5	306.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	345.0	344.4	343.8	343.2	342.6	342.3	342.4	342.5	342.6	342.6	342.1
115°	394.7	394.7	394.7	394.7	394.7	394.5	394.1	393.9	393.5	393.2	393.4
117.5°	445.1	445.1	445.2	445.3	445.3	445.4	445.5	445.5	445.6	445.7	445.3
120°	476.9	477.2	477.5	477.9	478.1	478.1	477.9	477.5	477.2	476.9	477.1
122.5°	508.1	508.5	508.7	509.1	509.3	509.4	509.3	509.1	508.9	508.7	508.5
125°	555.0	554.8	554.6	554.6	554.4	554.0	553.6	553.1	552.7	552.2	552.5
127.5°	596.1	596.3	596.4	596.5	596.6	596.7	596.8	596.9	597.0	597.1	596.4
130°	624.0	624.0	624.0	624.0	624.0	623.9	623.8	623.7	623.5	623.3	622.9
132.5°	649.7	649.8	649.9	650.1	650.1	650.1	650.0	649.9	649.7	649.5	648.9
135°	688.1	687.9	687.5	687.2	686.9	686.6	686.3	686.0	685.6	685.4	684.7
137.5°	721.0	721.1	721.2	721.3	721.4	721.3	720.9	720.6	720.3	720.0	719.3
140°	744.0	743.8	743.6	743.5	743.3	743.0	742.5	742.1	741.6	741.1	740.8
142.5°	762.9	762.9	762.9	762.8	762.8	762.6	762.2	761.9	761.6	761.3	761.1
145°	792.0	791.8	791.4	791.1	790.8	790.6	790.4	790.2	790.1	790.0	790.0
147.5°	816.2	816.0	815.8	815.7	815.6	815.4	815.3	815.2	815.0	814.9	815.0
150°	831.8	831.6	831.4	831.3	831.2	831.1	831.1	831.1	831.1	831.1	831.3
152.5°	845.2	845.3	845.3	845.4	845.5	845.4	845.3	845.0	844.7	844.5	844.7
155°	863.2	863.6	864.1	864.5	865.0	865.0	864.3	863.7	863.1	862.5	862.9
157.5°	878.2	879.0	879.9	880.7	881.5	881.5	880.7	879.9	879.0	878.2	878.8
160°	888.2	889.2	890.1	891.1	892.0	892.0	891.1	890.1	889.2	888.2	888.4
162.5°	896.1	897.2	898.1	899.2	900.3	900.4	899.4	898.5	897.6	896.6	896.8
165°	907.0	908.5	909.9	911.2	912.7	912.8	911.5	910.3	909.0	907.8	907.8
167.5°	915.3	916.9	918.4	920.0	921.5	921.6	920.2	918.9	917.5	916.1	916.2
170°	920.3	921.9	923.5	925.0	926.5	926.7	925.4	924.2	922.9	921.8	921.6
172.5°	923.1	924.8	926.5	928.2	929.8	930.1	928.8	927.6	926.3	925.1	924.9
175°	926.6	928.4	930.3	932.2	934.1	934.2	932.9	931.5	930.1	928.7	928.5
177.5°	928.8	930.3	931.8	933.3	934.8	935.0	934.1	933.1	932.0	931.0	930.9
180°	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2



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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°	12.3	11.1	9.8	9.2	9.1	9.0	8.9	8.8	8.9	9.0	9.1
95°	15.1	14.9	14.7	17.3	22.6	27.8	33.1	38.3	33.1	27.8	22.6
97.5°	53.0	70.3	87.6	94.6	91.3	88.0	84.7	81.4	84.7	88.0	91.3
100°	73.5	94.8	116.2	125.5	122.7	119.9	117.2	114.3	117.2	119.9	122.7
102.5°	153.4	156.1	159.0	159.3	157.3	155.2	153.2	151.1	153.2	155.2	157.3
105°	216.0	215.2	214.5	213.6	212.7	211.7	210.8	209.8	210.8	211.7	212.7
107.5°	269.1	268.0	267.0	266.3	265.8	265.3	264.8	264.4	264.8	265.3	265.8
110°	305.6	304.7	303.7	303.1	302.6	302.1	301.7	301.2	301.7	302.1	302.6



TEST NUMBER: P332688-940

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	341.7	341.3	340.9	340.3	339.4	338.6	337.7	336.9	337.7	338.6	339.4
115°	393.5	393.7	393.9	393.7	393.2	392.8	392.3	391.8	392.3	392.8	393.2
117.5°	445.0	444.6	444.3	443.8	443.2	442.6	441.9	441.3	441.9	442.6	443.2
120°	477.2	477.3	477.5	477.2	476.7	476.1	475.5	474.8	475.5	476.1	476.7
122.5°	508.3	508.0	507.8	507.6	507.1	506.8	506.4	506.0	506.4	506.8	507.1
125°	552.9	553.1	553.4	553.3	552.7	552.1	551.4	550.8	551.4	552.1	552.7
127.5°	595.7	594.9	594.2	593.8	593.7	593.5	593.3	593.2	593.3	593.5	593.7
130°	622.4	621.9	621.4	621.2	621.0	620.8	620.7	620.5	620.7	620.8	621.0
132.5°	648.4	647.7	647.2	646.8	646.5	646.2	645.9	645.6	645.9	646.2	646.5
135°	684.1	683.5	682.9	682.7	682.8	683.0	683.1	683.3	683.1	683.0	682.8
137.5°	718.6	717.9	717.2	716.8	716.8	716.8	716.7	716.6	716.7	716.8	716.8
140°	740.6	740.2	739.9	739.6	739.3	739.0	738.7	738.3	738.7	739.0	739.3
142.5°	760.9	760.6	760.5	760.1	759.6	759.0	758.4	757.9	758.4	759.0	759.6
145°	790.0	790.0	790.0	789.7	789.3	788.8	788.4	787.8	788.4	788.8	789.3
147.5°	815.2	815.4	815.6	815.2	814.3	813.4	812.6	811.7	812.6	813.4	814.3
150°	831.4	831.5	831.7	831.4	830.9	830.3	829.6	829.0	829.6	830.3	830.9
152.5°	845.1	845.3	845.6	845.5	845.0	844.5	844.0	843.5	844.0	844.5	845.0
155°	863.4	863.9	864.3	864.5	864.3	864.2	864.0	863.9	864.0	864.2	864.3
157.5°	879.3	879.8	880.3	880.7	880.7	880.8	880.9	881.0	880.9	880.8	880.7
160°	888.6	888.8	888.9	889.2	889.7	890.1	890.6	891.1	890.6	890.1	889.7
162.5°	897.0	897.1	897.2	897.6	898.2	898.8	899.4	900.0	899.4	898.8	898.2
165°	907.8	907.8	907.8	908.2	908.9	909.7	910.5	911.2	910.5	909.7	908.9
167.5°	916.3	916.4	916.5	916.9	917.7	918.6	919.4	920.2	919.4	918.6	917.7
170°	921.4	921.2	921.1	921.5	922.4	923.4	924.3	925.2	924.3	923.4	922.4
172.5°	924.8	924.6	924.4	924.9	925.8	926.7	927.6	928.5	927.6	926.7	925.8
175°	928.4	928.3	928.1	928.4	929.4	930.3	931.2	932.2	931.2	930.3	929.4
177.5°	930.6	930.3	930.1	930.4	931.2	932.1	933.0	933.9	933.0	932.1	931.2
180°	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2



TEST NUMBER: P332688-940

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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	26.2	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°	9.2	9.8	11.1	12.3	13.6	14.8	15.7	16.7	17.6	18.5	19.0
95°	17.3	14.7	14.9	15.1	15.2	15.3	16.2	17.2	18.1	19.1	19.6
97.5°	94.6	87.6	70.3	53.0	35.7	18.4	18.5	18.6	18.7	18.8	18.9
100°	125.5	116.2	94.8	73.5	52.1	30.7	28.0	25.4	22.7	20.2	18.9
102.5°	159.3	159.0	156.1	153.4	150.6	147.8	119.4	91.0	62.6	34.2	20.0
105°	213.6	214.5	215.2	216.0	216.8	217.5	218.9	220.3	221.7	223.1	221.1
107.5°	266.3	267.0	268.0	269.1	270.2	271.3	271.9	272.6	273.2	273.9	274.6
110°	303.1	303.7	304.7	305.6	306.6	307.5	307.8	308.1	308.4	308.7	309.1



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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	340.3	340.9	341.3	341.7	342.1	342.6	342.6	342.5	342.4	342.3	342.6
115°	393.7	393.9	393.7	393.5	393.4	393.2	393.5	393.9	394.1	394.5	394.7
117.5°	443.8	444.3	444.6	445.0	445.3	445.7	445.6	445.5	445.5	445.4	445.3
120°	477.2	477.5	477.3	477.2	477.1	476.9	477.2	477.5	477.9	478.1	478.1
122.5°	507.6	507.8	508.0	508.3	508.5	508.7	508.9	509.1	509.3	509.4	509.3
125°	553.3	553.4	553.1	552.9	552.5	552.2	552.7	553.1	553.6	554.0	554.4
127.5°	593.8	594.2	594.9	595.7	596.4	597.1	597.0	596.9	596.8	596.7	596.6
130°	621.2	621.4	621.9	622.4	622.9	623.3	623.5	623.7	623.8	623.9	624.0
132.5°	646.8	647.2	647.7	648.4	648.9	649.5	649.7	649.9	650.0	650.1	650.1
135°	682.7	682.9	683.5	684.1	684.7	685.4	685.6	686.0	686.3	686.6	686.9
137.5°	716.8	717.2	717.9	718.6	719.3	720.0	720.3	720.6	720.9	721.3	721.4
140°	739.6	739.9	740.2	740.6	740.8	741.1	741.6	742.1	742.5	743.0	743.3
142.5°	760.1	760.5	760.6	760.9	761.1	761.3	761.6	761.9	762.2	762.6	762.8
145°	789.7	790.0	790.0	790.0	790.0	790.0	790.1	790.2	790.4	790.6	790.8
147.5°	815.2	815.6	815.4	815.2	815.0	814.9	815.0	815.2	815.3	815.4	815.6
150°	831.4	831.7	831.5	831.4	831.3	831.1	831.1	831.1	831.1	831.1	831.2
152.5°	845.5	845.6	845.3	845.1	844.7	844.5	844.7	845.0	845.3	845.4	845.5
155°	864.5	864.3	863.9	863.4	862.9	862.5	863.1	863.7	864.3	865.0	865.0
157.5°	880.7	880.3	879.8	879.3	878.8	878.2	879.0	879.9	880.7	881.5	881.5
160°	889.2	888.9	888.8	888.6	888.4	888.2	889.2	890.1	891.1	892.0	892.0
162.5°	897.6	897.2	897.1	897.0	896.8	896.6	897.6	898.5	899.4	900.4	900.3
165°	908.2	907.8	907.8	907.8	907.8	907.8	909.0	910.3	911.5	912.8	912.7
167.5°	916.9	916.5	916.4	916.3	916.2	916.1	917.5	918.9	920.2	921.6	921.5
170°	921.5	921.1	921.2	921.4	921.6	921.8	922.9	924.2	925.4	926.7	926.5
172.5°	924.9	924.4	924.6	924.8	924.9	925.1	926.3	927.6	928.8	930.1	929.8
175°	928.4	928.1	928.3	928.4	928.5	928.7	930.1	931.5	932.9	934.2	934.1
177.5°	930.4	930.1	930.3	930.6	930.9	931.0	932.0	933.1	934.1	935.0	934.8
180°	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2



TEST NUMBER: P332688-940

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

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°	19.1	19.1	19.2	19.3	19.2	19.1	19.1	19.0	18.5	17.6	16.7
95°	19.8	19.9	20.1	20.2	20.1	19.9	19.8	19.6	19.1	18.1	17.2
97.5°	19.1	19.2	19.4	19.5	19.4	19.2	19.1	18.9	18.8	18.7	18.6
100°	19.1	19.2	19.4	19.5	19.4	19.2	19.1	18.9	20.2	22.7	25.4
102.5°	20.0	20.0	20.1	20.1	20.1	20.0	20.0	20.0	34.2	62.6	91.0
105°	215.4	209.8	204.3	198.7	204.3	209.8	215.4	221.1	223.1	221.7	220.3
107.5°	275.2	275.7	276.3	277.0	276.3	275.7	275.2	274.6	273.9	273.2	272.6
110°	309.6	310.0	310.5	310.9	310.5	310.0	309.6	309.1	308.7	308.4	308.1



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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	343.2	343.8	344.4	345.0	344.4	343.8	343.2	342.6	342.3	342.4	342.5
115°	394.7	394.7	394.7	394.7	394.7	394.7	394.7	394.7	394.5	394.1	393.9
117.5°	445.3	445.2	445.1	445.1	445.1	445.2	445.3	445.3	445.4	445.5	445.5
120°	477.9	477.5	477.2	476.9	477.2	477.5	477.9	478.1	478.1	477.9	477.5
122.5°	509.1	508.7	508.5	508.1	508.5	508.7	509.1	509.3	509.4	509.3	509.1
125°	554.6	554.6	554.8	555.0	554.8	554.6	554.6	554.4	554.0	553.6	553.1
127.5°	596.5	596.4	596.3	596.1	596.3	596.4	596.5	596.6	596.7	596.8	596.9
130°	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.9	623.8	623.7
132.5°	650.1	649.9	649.8	649.7	649.8	649.9	650.1	650.1	650.1	650.0	649.9
135°	687.2	687.5	687.9	688.1	687.9	687.5	687.2	686.9	686.6	686.3	686.0
137.5°	721.3	721.2	721.1	721.0	721.1	721.2	721.3	721.4	721.3	720.9	720.6
140°	743.5	743.6	743.8	744.0	743.8	743.6	743.5	743.3	743.0	742.5	742.1
142.5°	762.8	762.9	762.9	762.9	762.9	762.9	762.8	762.8	762.6	762.2	761.9
145°	791.1	791.4	791.8	792.0	791.8	791.4	791.1	790.8	790.6	790.4	790.2
147.5°	815.7	815.8	816.0	816.2	816.0	815.8	815.7	815.6	815.4	815.3	815.2
150°	831.3	831.4	831.6	831.8	831.6	831.4	831.3	831.2	831.1	831.1	831.1
152.5°	845.4	845.3	845.3	845.2	845.3	845.3	845.4	845.5	845.4	845.3	845.0
155°	864.5	864.1	863.6	863.2	863.6	864.1	864.5	865.0	865.0	864.3	863.7
157.5°	880.7	879.9	879.0	878.2	879.0	879.9	880.7	881.5	881.5	880.7	879.9
160°	891.1	890.1	889.2	888.2	889.2	890.1	891.1	892.0	892.0	891.1	890.1
162.5°	899.2	898.1	897.2	896.1	897.2	898.1	899.2	900.3	900.4	899.4	898.5
165°	911.2	909.9	908.5	907.0	908.5	909.9	911.2	912.7	912.8	911.5	910.3
167.5°	920.0	918.4	916.9	915.3	916.9	918.4	920.0	921.5	921.6	920.2	918.9
170°	925.0	923.5	921.9	920.3	921.9	923.5	925.0	926.5	926.7	925.4	924.2
172.5°	928.2	926.5	924.8	923.1	924.8	926.5	928.2	929.8	930.1	928.8	927.6
175°	932.2	930.3	928.4	926.6	928.4	930.3	932.2	934.1	934.2	932.9	931.5
177.5°	933.3	931.8	930.3	928.8	930.3	931.8	933.3	934.8	935.0	934.1	933.1
180°	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2



TEST NUMBER: P332688-940

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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	26.2	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°	15.7	14.8	13.6	12.3	11.1	9.8	9.2	9.1	9.0	8.9	8.8
95°	16.2	15.3	15.2	15.1	14.9	14.7	17.3	22.6	27.8	33.1	38.3
97.5°	18.5	18.4	35.7	53.0	70.3	87.6	94.6	91.3	88.0	84.7	81.4
100°	28.0	30.7	52.1	73.5	94.8	116.2	125.5	122.7	119.9	117.2	114.3
102.5°	119.4	147.8	150.6	153.4	156.1	159.0	159.3	157.3	155.2	153.2	151.1
105°	218.9	217.5	216.8	216.0	215.2	214.5	213.6	212.7	211.7	210.8	209.8
107.5°	271.9	271.3	270.2	269.1	268.0	267.0	266.3	265.8	265.3	264.8	264.4
110°	307.8	307.5	306.6	305.6	304.7	303.7	303.1	302.6	302.1	301.7	301.2



TEST NUMBER: P332688-940

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	342.6	342.6	342.1	341.7	341.3	340.9	340.3	339.4	338.6	337.7	336.9
115°	393.5	393.2	393.4	393.5	393.7	393.9	393.7	393.2	392.8	392.3	391.8
117.5°	445.6	445.7	445.3	445.0	444.6	444.3	443.8	443.2	442.6	441.9	441.3
120°	477.2	476.9	477.1	477.2	477.3	477.5	477.2	476.7	476.1	475.5	474.8
122.5°	508.9	508.7	508.5	508.3	508.0	507.8	507.6	507.1	506.8	506.4	506.0
125°	552.7	552.2	552.5	552.9	553.1	553.4	553.3	552.7	552.1	551.4	550.8
127.5°	597.0	597.1	596.4	595.7	594.9	594.2	593.8	593.7	593.5	593.3	593.2
130°	623.5	623.3	622.9	622.4	621.9	621.4	621.2	621.0	620.8	620.7	620.5
132.5°	649.7	649.5	648.9	648.4	647.7	647.2	646.8	646.5	646.2	645.9	645.6
135°	685.6	685.4	684.7	684.1	683.5	682.9	682.7	682.8	683.0	683.1	683.3
137.5°	720.3	720.0	719.3	718.6	717.9	717.2	716.8	716.8	716.8	716.7	716.6
140°	741.6	741.1	740.8	740.6	740.2	739.9	739.6	739.3	739.0	738.7	738.3
142.5°	761.6	761.3	761.1	760.9	760.6	760.5	760.1	759.6	759.0	758.4	757.9
145°	790.1	790.0	790.0	790.0	790.0	790.0	789.7	789.3	788.8	788.4	787.8
147.5°	815.0	814.9	815.0	815.2	815.4	815.6	815.2	814.3	813.4	812.6	811.7
150°	831.1	831.1	831.3	831.4	831.5	831.7	831.4	830.9	830.3	829.6	829.0
152.5°	844.7	844.5	844.7	845.1	845.3	845.6	845.5	845.0	844.5	844.0	843.5
155°	863.1	862.5	862.9	863.4	863.9	864.3	864.5	864.3	864.2	864.0	863.9
157.5°	879.0	878.2	878.8	879.3	879.8	880.3	880.7	880.7	880.8	880.9	881.0
160°	889.2	888.2	888.4	888.6	888.8	888.9	889.2	889.7	890.1	890.6	891.1
162.5°	897.6	896.6	896.8	897.0	897.1	897.2	897.6	898.2	898.8	899.4	900.0
165°	909.0	907.8	907.8	907.8	907.8	907.8	908.2	908.9	909.7	910.5	911.2
167.5°	917.5	916.1	916.2	916.3	916.4	916.5	916.9	917.7	918.6	919.4	920.2
170°	922.9	921.8	921.6	921.4	921.2	921.1	921.5	922.4	923.4	924.3	925.2
172.5°	926.3	925.1	924.9	924.8	924.6	924.4	924.9	925.8	926.7	927.6	928.5
175°	930.1	928.7	928.5	928.4	928.3	928.1	928.4	929.4	930.3	931.2	932.2
177.5°	932.0	931.0	930.9	930.6	930.3	930.1	930.4	931.2	932.1	933.0	933.9
180°	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2



TEST NUMBER: P332688-940

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

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°	8.9	9.0	9.1	9.2	9.8	11.1	12.3	13.6	14.8	15.7	16.7
95°	33.1	27.8	22.6	17.3	14.7	14.9	15.1	15.2	15.3	16.2	17.2
97.5°	84.7	88.0	91.3	94.6	87.6	70.3	53.0	35.7	18.4	18.5	18.6
100°	117.2	119.9	122.7	125.5	116.2	94.8	73.5	52.1	30.7	28.0	25.4
102.5°	153.2	155.2	157.3	159.3	159.0	156.1	153.4	150.6	147.8	119.4	91.0
105°	210.8	211.7	212.7	213.6	214.5	215.2	216.0	216.8	217.5	218.9	220.3
107.5°	264.8	265.3	265.8	266.3	267.0	268.0	269.1	270.2	271.3	271.9	272.6
110°	301.7	302.1	302.6	303.1	303.7	304.7	305.6	306.6	307.5	307.8	308.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	337.7	338.6	339.4	340.3	340.9	341.3	341.7	342.1	342.6	342.6	342.5
115°	392.3	392.8	393.2	393.7	393.9	393.7	393.5	393.4	393.2	393.5	393.9
117.5°	441.9	442.6	443.2	443.8	444.3	444.6	445.0	445.3	445.7	445.6	445.5
120°	475.5	476.1	476.7	477.2	477.5	477.3	477.2	477.1	476.9	477.2	477.5
122.5°	506.4	506.8	507.1	507.6	507.8	508.0	508.3	508.5	508.7	508.9	509.1
125°	551.4	552.1	552.7	553.3	553.4	553.1	552.9	552.5	552.2	552.7	553.1
127.5°	593.3	593.5	593.7	593.8	594.2	594.9	595.7	596.4	597.1	597.0	596.9
130°	620.7	620.8	621.0	621.2	621.4	621.9	622.4	622.9	623.3	623.5	623.7
132.5°	645.9	646.2	646.5	646.8	647.2	647.7	648.4	648.9	649.5	649.7	649.9
135°	683.1	683.0	682.8	682.7	682.9	683.5	684.1	684.7	685.4	685.6	686.0
137.5°	716.7	716.8	716.8	716.8	717.2	717.9	718.6	719.3	720.0	720.3	720.6
140°	738.7	739.0	739.3	739.6	739.9	740.2	740.6	740.8	741.1	741.6	742.1
142.5°	758.4	759.0	759.6	760.1	760.5	760.6	760.9	761.1	761.3	761.6	761.9
145°	788.4	788.8	789.3	789.7	790.0	790.0	790.0	790.0	790.0	790.1	790.2
147.5°	812.6	813.4	814.3	815.2	815.6	815.4	815.2	815.0	814.9	815.0	815.2
150°	829.6	830.3	830.9	831.4	831.7	831.5	831.4	831.3	831.1	831.1	831.1
152.5°	844.0	844.5	845.0	845.5	845.6	845.3	845.1	844.7	844.5	844.7	845.0
155°	864.0	864.2	864.3	864.5	864.3	863.9	863.4	862.9	862.5	863.1	863.7
157.5°	880.9	880.8	880.7	880.7	880.3	879.8	879.3	878.8	878.2	879.0	879.9
160°	890.6	890.1	889.7	889.2	888.9	888.8	888.6	888.4	888.2	889.2	890.1
162.5°	899.4	898.8	898.2	897.6	897.2	897.1	897.0	896.8	896.6	897.6	898.5
165°	910.5	909.7	908.9	908.2	907.8	907.8	907.8	907.8	907.8	909.0	910.3
167.5°	919.4	918.6	917.7	916.9	916.5	916.4	916.3	916.2	916.1	917.5	918.9
170°	924.3	923.4	922.4	921.5	921.1	921.2	921.4	921.6	921.8	922.9	924.2
172.5°	927.6	926.7	925.8	924.9	924.4	924.6	924.8	924.9	925.1	926.3	927.6
175°	931.2	930.3	929.4	928.4	928.1	928.3	928.4	928.5	928.7	930.1	931.5
177.5°	933.0	932.1	931.2	930.4	930.1	930.3	930.6	930.9	931.0	932.0	933.1
180°	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2



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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°	17.6	18.5	19.0	19.1	19.1	19.2	19.3
95°	18.1	19.1	19.6	19.8	19.9	20.1	20.2
97.5°	18.7	18.8	18.9	19.1	19.2	19.4	19.5
100°	22.7	20.2	18.9	19.1	19.2	19.4	19.5
102.5°	62.6	34.2	20.0	20.0	20.0	20.1	20.1
105°	221.7	223.1	221.1	215.4	209.8	204.3	198.7
107.5°	273.2	273.9	274.6	275.2	275.7	276.3	277.0
110°	308.4	308.7	309.1	309.6	310.0	310.5	310.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	342.4	342.3	342.6	343.2	343.8	344.4	345.0
115°	394.1	394.5	394.7	394.7	394.7	394.7	394.7
117.5°	445.5	445.4	445.3	445.3	445.2	445.1	445.1
120°	477.9	478.1	478.1	477.9	477.5	477.2	476.9
122.5°	509.3	509.4	509.3	509.1	508.7	508.5	508.1
125°	553.6	554.0	554.4	554.6	554.6	554.8	555.0
127.5°	596.8	596.7	596.6	596.5	596.4	596.3	596.1
130°	623.8	623.9	624.0	624.0	624.0	624.0	624.0
132.5°	650.0	650.1	650.1	650.1	649.9	649.8	649.7
135°	686.3	686.6	686.9	687.2	687.5	687.9	688.1
137.5°	720.9	721.3	721.4	721.3	721.2	721.1	721.0
140°	742.5	743.0	743.3	743.5	743.6	743.8	744.0
142.5°	762.2	762.6	762.8	762.8	762.9	762.9	762.9
145°	790.4	790.6	790.8	791.1	791.4	791.8	792.0
147.5°	815.3	815.4	815.6	815.7	815.8	816.0	816.2
150°	831.1	831.1	831.2	831.3	831.4	831.6	831.8
152.5°	845.3	845.4	845.5	845.4	845.3	845.3	845.2
155°	864.3	865.0	865.0	864.5	864.1	863.6	863.2
157.5°	880.7	881.5	881.5	880.7	879.9	879.0	878.2
160°	891.1	892.0	892.0	891.1	890.1	889.2	888.2
162.5°	899.4	900.4	900.3	899.2	898.1	897.2	896.1
165°	911.5	912.8	912.7	911.2	909.9	908.5	907.0
167.5°	920.2	921.6	921.5	920.0	918.4	916.9	915.3
170°	925.4	926.7	926.5	925.0	923.5	921.9	920.3
172.5°	928.8	930.1	929.8	928.2	926.5	924.8	923.1
175°	932.9	934.2	934.1	932.2	930.3	928.4	926.6
177.5°	934.1	935.0	934.8	933.3	931.8	930.3	928.8
180°	932.2	932.2	932.2	932.2	932.2	932.2	932.2

(END OF REPORT)