

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: P332679-940

Luminaire Tested: **SA4XXDIP-C1195D590U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332679-940  
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-C1195D590U940-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6847.4 lumens  
Efficiency: N/A  
Efficacy: 124.3 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

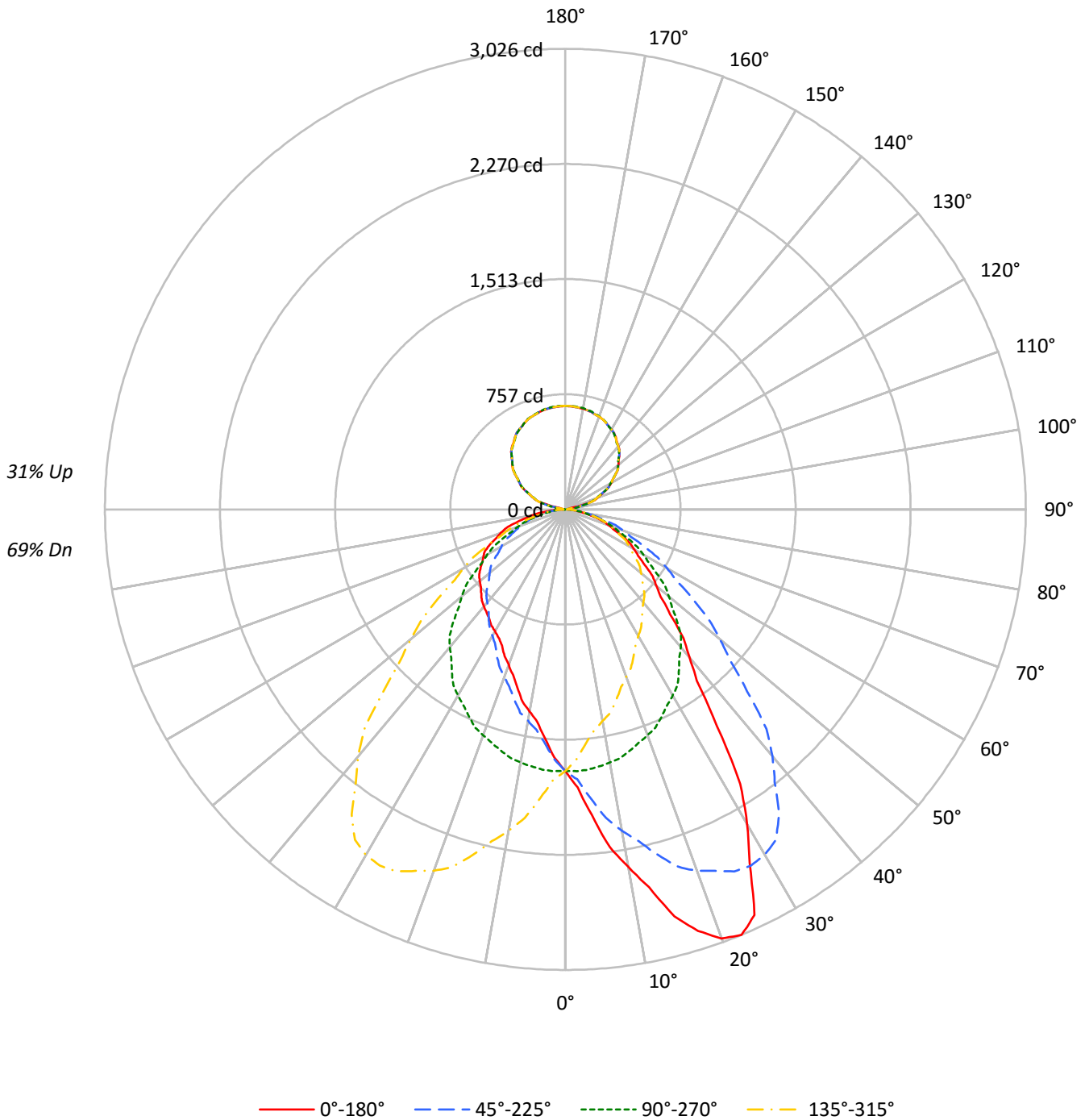
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69				
1	102	98	94	91	97	93	89	86	83	80	78	74	72	70	66	64	63	59				
2	94	86	80	75	88	82	76	71	73	69	65	65	62	59	58	56	54	50				
3	86	76	69	63	81	72	65	60	65	60	55	58	54	50	52	49	46	43				
4	78	68	59	53	74	64	57	51	58	52	47	52	47	44	47	43	40	37				
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	42	38	35	32				
6	67	54	46	40	63	52	44	39	47	41	36	43	37	34	38	34	31	28				
7	62	49	41	36	58	47	40	34	43	37	32	39	34	30	35	31	28	25				
8	58	45	37	32	54	43	36	31	39	33	29	36	30	27	32	28	25	23				
9	54	41	34	28	51	39	32	28	36	30	26	33	28	24	30	26	22	20				
10	50	38	31	26	48	36	29	25	33	27	23	30	25	22	28	24	20	19				

**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	2.4
10°-20°	516.1	7.5
20°-30°	818.4	12.0
30°-40°	910.7	13.3
40°-50°	829.0	12.1
50°-60°	677.5	9.9
60°-70°	483.6	7.1
70°-80°	266.3	3.9
80°-90°	74.7	1.1
90°-100°	23.3	0.3
100°-110°	148.3	2.2
110°-120°	283.7	4.1
120°-130°	360.1	5.3
130°-140°	385.3	5.6
140°-150°	360.3	5.3
150°-160°	290.6	4.2
160°-170°	187.4	2.7
170°-180°	64.6	0.9
0°-30°	1501.9	21.9
0°-40°	2412.6	35.2
0°-60°	3919.1	57.2
0°-90°	4743.8	69.3
90°-120°	455.3	6.6
90°-150°	1561.1	22.8
90°-180°	2104.0	30.7
0°-180°	6847.4	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	52
90°	15	2	15	2	15	8
95°	15	28	15	28	15	12
105°	145	153	145	153	145	126
115°	288	286	288	286	288	285
125°	405	402	405	402	405	361
135°	502	498	502	498	502	386
145°	578	575	578	575	578	361
155°	630	630	630	630	630	290
165°	662	665	662	665	662	187
175°	676	680	676	680	676	64
180°	680	680	680	680	680	



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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°	15.6	17.2	17.2	17.7	18.8	19.3	19.7	19.0	21.1	21.6	23.7
90°	15.2	15.1	14.8	14.6	14.4	13.9	13.2	12.6	11.9	11.1	10.3
92.5°	14.0	14.0	13.9	13.9	13.8	13.5	12.8	12.1	11.5	10.8	9.9
95°	14.7	14.6	14.5	14.4	14.3	13.9	13.2	12.6	11.9	11.1	11.1
97.5°	14.3	14.1	14.0	13.9	13.8	13.7	13.6	13.6	13.5	13.5	26.0
100°	14.3	14.1	14.0	13.9	13.8	14.7	16.6	18.5	20.4	22.4	38.0
102.5°	14.6	14.6	14.6	14.6	14.5	24.9	45.7	66.3	87.1	107.8	109.9
105°	145.0	149.0	153.1	157.2	161.2	162.7	161.8	160.8	159.7	158.7	158.1
107.5°	202.1	201.6	201.2	200.7	200.3	199.8	199.4	198.9	198.4	197.9	197.1
110°	226.9	226.5	226.1	225.9	225.5	225.2	225.0	224.8	224.5	224.4	223.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	251.6	251.3	250.8	250.4	249.9	249.8	249.9	249.9	249.9	249.9	249.7
115°	287.9	287.9	287.9	287.9	287.9	287.8	287.6	287.3	287.1	286.9	287.0
117.5°	324.8	324.8	324.9	324.9	324.9	324.9	325.0	325.0	325.1	325.1	324.9
120°	347.9	348.1	348.4	348.6	348.8	348.8	348.6	348.4	348.1	347.9	348.0
122.5°	370.7	371.0	371.1	371.4	371.6	371.7	371.5	371.4	371.2	371.1	371.0
125°	404.9	404.7	404.7	404.6	404.5	404.2	403.9	403.5	403.2	402.9	403.1
127.5°	434.9	435.0	435.1	435.2	435.2	435.3	435.4	435.5	435.5	435.6	435.1
130°	455.2	455.2	455.2	455.2	455.2	455.2	455.0	455.0	454.9	454.8	454.4
132.5°	473.9	474.0	474.1	474.2	474.3	474.3	474.2	474.1	473.9	473.9	473.4
135°	502.0	501.9	501.6	501.3	501.1	500.9	500.7	500.4	500.2	500.0	499.5
137.5°	526.0	526.1	526.2	526.3	526.3	526.2	526.0	525.8	525.5	525.2	524.8
140°	542.7	542.6	542.5	542.4	542.2	542.1	541.7	541.4	541.0	540.7	540.5
142.5°	556.6	556.5	556.5	556.5	556.5	556.3	556.1	555.8	555.6	555.4	555.2
145°	577.8	577.7	577.4	577.1	576.9	576.8	576.7	576.5	576.4	576.3	576.3
147.5°	595.4	595.3	595.2	595.1	594.9	594.9	594.8	594.7	594.6	594.5	594.6
150°	606.8	606.7	606.6	606.5	606.4	606.3	606.3	606.3	606.3	606.3	606.5
152.5°	616.6	616.6	616.7	616.8	616.9	616.8	616.6	616.4	616.3	616.1	616.3
155°	629.7	630.1	630.4	630.7	631.1	631.0	630.5	630.1	629.6	629.2	629.5
157.5°	640.7	641.3	641.9	642.5	643.0	643.0	642.5	641.9	641.3	640.7	641.1
160°	648.0	648.7	649.3	650.1	650.8	650.8	650.1	649.3	648.7	648.0	648.1
162.5°	653.7	654.5	655.2	656.0	656.8	656.8	656.1	655.5	654.8	654.2	654.2
165°	661.7	662.8	663.8	664.8	665.8	665.9	664.9	664.1	663.2	662.3	662.3
167.5°	667.8	668.9	670.0	671.2	672.3	672.3	671.4	670.4	669.4	668.3	668.4
170°	671.5	672.5	673.7	674.8	675.9	676.1	675.1	674.2	673.3	672.4	672.3
172.5°	673.4	674.7	675.9	677.2	678.3	678.5	677.6	676.7	675.8	674.8	674.8
175°	676.0	677.3	678.7	680.1	681.4	681.6	680.6	679.6	678.5	677.5	677.4
177.5°	677.6	678.7	679.8	680.9	682.0	682.2	681.4	680.7	680.0	679.2	679.0
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



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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°	23.5	23.9	23.2	20.7	18.7	16.8	16.0	15.1	16.0	16.8	17.6
90°	9.4	8.5	7.6	6.5	5.3	4.0	2.8	1.5	2.8	4.0	5.3
92.5°	9.0	8.1	7.1	6.7	6.6	6.5	6.5	6.4	6.5	6.5	6.6
95°	11.0	10.9	10.7	12.6	16.4	20.3	24.2	28.0	24.2	20.3	16.4
97.5°	38.7	51.3	63.8	69.0	66.6	64.2	61.8	59.4	61.8	64.2	66.6
100°	53.6	69.2	84.8	91.6	89.5	87.5	85.4	83.4	85.4	87.5	89.5
102.5°	111.9	114.0	116.0	116.3	114.8	113.2	111.7	110.3	111.7	113.2	114.8
105°	157.6	157.0	156.4	155.8	155.2	154.4	153.8	153.1	153.8	154.4	155.2
107.5°	196.4	195.6	194.7	194.2	193.9	193.6	193.2	192.9	193.2	193.6	193.9
110°	222.9	222.3	221.6	221.1	220.8	220.4	220.1	219.7	220.1	220.4	220.8





TEST NUMBER: P332679-940

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	249.3	249.0	248.7	248.3	247.6	247.0	246.4	245.8	246.4	247.0	247.6
115°	287.1	287.2	287.3	287.2	286.9	286.5	286.2	285.9	286.2	286.5	286.9
117.5°	324.7	324.4	324.1	323.8	323.3	322.9	322.4	322.0	322.4	322.9	323.3
120°	348.1	348.3	348.4	348.2	347.8	347.3	346.9	346.4	346.9	347.3	347.8
122.5°	370.8	370.7	370.5	370.2	370.0	369.7	369.4	369.2	369.4	369.7	370.0
125°	403.3	403.5	403.8	403.7	403.2	402.8	402.3	401.8	402.3	402.8	403.2
127.5°	434.5	434.1	433.5	433.2	433.1	433.0	432.8	432.7	432.8	433.0	433.1
130°	454.1	453.7	453.3	453.2	453.1	452.9	452.8	452.7	452.8	452.9	453.1
132.5°	473.0	472.6	472.2	471.8	471.6	471.4	471.2	471.0	471.2	471.4	471.6
135°	499.1	498.6	498.2	498.0	498.1	498.3	498.4	498.5	498.4	498.3	498.1
137.5°	524.2	523.7	523.3	523.0	522.9	522.9	522.8	522.8	522.8	522.9	522.9
140°	540.3	540.0	539.8	539.6	539.3	539.1	538.9	538.7	538.9	539.1	539.3
142.5°	555.1	554.9	554.8	554.6	554.1	553.8	553.3	552.9	553.3	553.8	554.1
145°	576.3	576.3	576.3	576.1	575.8	575.4	575.2	574.8	575.2	575.4	575.8
147.5°	594.8	594.9	594.9	594.7	594.1	593.4	592.8	592.2	592.8	593.4	594.1
150°	606.5	606.6	606.8	606.6	606.2	605.7	605.2	604.8	605.2	605.7	606.2
152.5°	616.5	616.7	616.9	616.8	616.4	616.1	615.7	615.4	615.7	616.1	616.4
155°	629.9	630.3	630.5	630.7	630.5	630.4	630.4	630.3	630.4	630.4	630.5
157.5°	641.5	641.9	642.2	642.5	642.6	642.6	642.7	642.7	642.7	642.6	642.6
160°	648.3	648.4	648.5	648.7	649.1	649.3	649.7	650.1	649.7	649.3	649.1
162.5°	654.3	654.4	654.6	654.9	655.3	655.7	656.1	656.6	656.1	655.7	655.3
165°	662.3	662.3	662.3	662.5	663.1	663.7	664.2	664.8	664.2	663.7	663.1
167.5°	668.5	668.6	668.6	669.0	669.6	670.1	670.7	671.3	670.7	670.1	669.6
170°	672.2	672.1	672.0	672.3	673.0	673.6	674.3	675.0	674.3	673.6	673.0
172.5°	674.7	674.6	674.4	674.8	675.4	676.1	676.7	677.4	676.7	676.1	675.4
175°	677.3	677.2	677.1	677.3	678.1	678.7	679.4	680.1	679.4	678.7	678.1
177.5°	678.9	678.7	678.5	678.8	679.4	680.0	680.6	681.3	680.6	680.0	679.4
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332679-940

CATALOG NUMBER: SA4XXDIP-C1195D590U940-4F0-1E-UDD-A

**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°	19.5	19.7	22.2	23.5	25.4	28.4	29.7	36.1	38.5	41.6	46.7
90°	6.5	7.6	8.5	9.4	10.3	11.1	11.9	12.6	13.2	13.9	14.4
92.5°	6.7	7.1	8.1	9.0	9.9	10.8	11.5	12.1	12.8	13.5	13.8
95°	12.6	10.7	10.9	11.0	11.1	11.1	11.9	12.6	13.2	13.9	14.3
97.5°	69.0	63.8	51.3	38.7	26.0	13.5	13.5	13.6	13.6	13.7	13.8
100°	91.6	84.8	69.2	53.6	38.0	22.4	20.4	18.5	16.6	14.7	13.8
102.5°	116.3	116.0	114.0	111.9	109.9	107.8	87.1	66.3	45.7	24.9	14.5
105°	155.8	156.4	157.0	157.6	158.1	158.7	159.7	160.8	161.8	162.7	161.2
107.5°	194.2	194.7	195.6	196.4	197.1	197.9	198.4	198.9	199.4	199.8	200.3
110°	221.1	221.6	222.3	222.9	223.6	224.4	224.5	224.8	225.0	225.2	225.5



TEST NUMBER: P332679-940

CATALOG NUMBER: SA4XXDIP-C1195D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	248.3	248.7	249.0	249.3	249.7	249.9	249.9	249.9	249.9	249.8	249.9
115°	287.2	287.3	287.2	287.1	287.0	286.9	287.1	287.3	287.6	287.8	287.9
117.5°	323.8	324.1	324.4	324.7	324.9	325.1	325.1	325.0	325.0	324.9	324.9
120°	348.2	348.4	348.3	348.1	348.0	347.9	348.1	348.4	348.6	348.8	348.8
122.5°	370.2	370.5	370.7	370.8	371.0	371.1	371.2	371.4	371.5	371.7	371.6
125°	403.7	403.8	403.5	403.3	403.1	402.9	403.2	403.5	403.9	404.2	404.5
127.5°	433.2	433.5	434.1	434.5	435.1	435.6	435.5	435.5	435.4	435.3	435.2
130°	453.2	453.3	453.7	454.1	454.4	454.8	454.9	455.0	455.0	455.2	455.2
132.5°	471.8	472.2	472.6	473.0	473.4	473.9	473.9	474.1	474.2	474.3	474.3
135°	498.0	498.2	498.6	499.1	499.5	500.0	500.2	500.4	500.7	500.9	501.1
137.5°	523.0	523.3	523.7	524.2	524.8	525.2	525.5	525.8	526.0	526.2	526.3
140°	539.6	539.8	540.0	540.3	540.5	540.7	541.0	541.4	541.7	542.1	542.2
142.5°	554.6	554.8	554.9	555.1	555.2	555.4	555.6	555.8	556.1	556.3	556.5
145°	576.1	576.3	576.3	576.3	576.3	576.3	576.4	576.5	576.7	576.8	576.9
147.5°	594.7	594.9	594.9	594.8	594.6	594.5	594.6	594.7	594.8	594.9	594.9
150°	606.6	606.8	606.6	606.5	606.5	606.3	606.3	606.3	606.3	606.3	606.4
152.5°	616.8	616.9	616.7	616.5	616.3	616.1	616.3	616.4	616.6	616.8	616.9
155°	630.7	630.5	630.3	629.9	629.5	629.2	629.6	630.1	630.5	631.0	631.1
157.5°	642.5	642.2	641.9	641.5	641.1	640.7	641.3	641.9	642.5	643.0	643.0
160°	648.7	648.5	648.4	648.3	648.1	648.0	648.7	649.3	650.1	650.8	650.8
162.5°	654.9	654.6	654.4	654.3	654.2	654.2	654.8	655.5	656.1	656.8	656.8
165°	662.5	662.3	662.3	662.3	662.3	662.3	663.2	664.1	664.9	665.9	665.8
167.5°	669.0	668.6	668.6	668.5	668.4	668.3	669.4	670.4	671.4	672.3	672.3
170°	672.3	672.0	672.1	672.2	672.3	672.4	673.3	674.2	675.1	676.1	675.9
172.5°	674.8	674.4	674.6	674.7	674.8	674.8	675.8	676.7	677.6	678.5	678.3
175°	677.3	677.1	677.2	677.3	677.4	677.5	678.5	679.6	680.6	681.6	681.4
177.5°	678.8	678.5	678.7	678.9	679.0	679.2	680.0	680.7	681.4	682.2	682.0
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332679-940

CATALOG NUMBER: SA4XXDIP-C1195D590U940-4F0-1E-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°	48.5	49.1	50.8	52.1	50.8	49.1	48.5	46.7	41.6	38.5	36.1
90°	14.6	14.8	15.1	15.2	15.1	14.8	14.6	14.4	13.9	13.2	12.6
92.5°	13.9	13.9	14.0	14.0	14.0	13.9	13.9	13.8	13.5	12.8	12.1
95°	14.4	14.5	14.6	14.7	14.6	14.5	14.4	14.3	13.9	13.2	12.6
97.5°	13.9	14.0	14.1	14.3	14.1	14.0	13.9	13.8	13.7	13.6	13.6
100°	13.9	14.0	14.1	14.3	14.1	14.0	13.9	13.8	14.7	16.6	18.5
102.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.5	24.9	45.7	66.3
105°	157.2	153.1	149.0	145.0	149.0	153.1	157.2	161.2	162.7	161.8	160.8
107.5°	200.7	201.2	201.6	202.1	201.6	201.2	200.7	200.3	199.8	199.4	198.9
110°	225.9	226.1	226.5	226.9	226.5	226.1	225.9	225.5	225.2	225.0	224.8



TEST NUMBER: P332679-940

CATALOG NUMBER: SA4XXDIP-C1195D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	250.4	250.8	251.3	251.6	251.3	250.8	250.4	249.9	249.8	249.9	249.9
115°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.8	287.6	287.3
117.5°	324.9	324.9	324.8	324.8	324.8	324.9	324.9	324.9	324.9	325.0	325.0
120°	348.6	348.4	348.1	347.9	348.1	348.4	348.6	348.8	348.8	348.6	348.4
122.5°	371.4	371.1	371.0	370.7	371.0	371.1	371.4	371.6	371.7	371.5	371.4
125°	404.6	404.7	404.7	404.9	404.7	404.7	404.6	404.5	404.2	403.9	403.5
127.5°	435.2	435.1	435.0	434.9	435.0	435.1	435.2	435.2	435.3	435.4	435.5
130°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.0	455.0
132.5°	474.2	474.1	474.0	473.9	474.0	474.1	474.2	474.3	474.3	474.2	474.1
135°	501.3	501.6	501.9	502.0	501.9	501.6	501.3	501.1	500.9	500.7	500.4
137.5°	526.3	526.2	526.1	526.0	526.1	526.2	526.3	526.3	526.2	526.0	525.8
140°	542.4	542.5	542.6	542.7	542.6	542.5	542.4	542.2	542.1	541.7	541.4
142.5°	556.5	556.5	556.5	556.6	556.5	556.5	556.5	556.5	556.3	556.1	555.8
145°	577.1	577.4	577.7	577.8	577.7	577.4	577.1	576.9	576.8	576.7	576.5
147.5°	595.1	595.2	595.3	595.4	595.3	595.2	595.1	594.9	594.9	594.8	594.7
150°	606.5	606.6	606.7	606.8	606.7	606.6	606.5	606.4	606.3	606.3	606.3
152.5°	616.8	616.7	616.6	616.6	616.6	616.7	616.8	616.9	616.8	616.6	616.4
155°	630.7	630.4	630.1	629.7	630.1	630.4	630.7	631.1	631.0	630.5	630.1
157.5°	642.5	641.9	641.3	640.7	641.3	641.9	642.5	643.0	643.0	642.5	641.9
160°	650.1	649.3	648.7	648.0	648.7	649.3	650.1	650.8	650.8	650.1	649.3
162.5°	656.0	655.2	654.5	653.7	654.5	655.2	656.0	656.8	656.8	656.1	655.5
165°	664.8	663.8	662.8	661.7	662.8	663.8	664.8	665.8	665.9	664.9	664.1
167.5°	671.2	670.0	668.9	667.8	668.9	670.0	671.2	672.3	672.3	671.4	670.4
170°	674.8	673.7	672.5	671.5	672.5	673.7	674.8	675.9	676.1	675.1	674.2
172.5°	677.2	675.9	674.7	673.4	674.7	675.9	677.2	678.3	678.5	677.6	676.7
175°	680.1	678.7	677.3	676.0	677.3	678.7	680.1	681.4	681.6	680.6	679.6
177.5°	680.9	679.8	678.7	677.6	678.7	679.8	680.9	682.0	682.2	681.4	680.7
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332679-940

CATALOG NUMBER: SA4XXDIP-C1195D590U940-4F0-1E-UDD-A

**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°	29.7	28.4	25.4	23.5	22.2	19.7	19.5	17.6	16.8	16.0	15.1
90°	11.9	11.1	10.3	9.4	8.5	7.6	6.5	5.3	4.0	2.8	1.5
92.5°	11.5	10.8	9.9	9.0	8.1	7.1	6.7	6.6	6.5	6.5	6.4
95°	11.9	11.1	11.1	11.0	10.9	10.7	12.6	16.4	20.3	24.2	28.0
97.5°	13.5	13.5	26.0	38.7	51.3	63.8	69.0	66.6	64.2	61.8	59.4
100°	20.4	22.4	38.0	53.6	69.2	84.8	91.6	89.5	87.5	85.4	83.4
102.5°	87.1	107.8	109.9	111.9	114.0	116.0	116.3	114.8	113.2	111.7	110.3
105°	159.7	158.7	158.1	157.6	157.0	156.4	155.8	155.2	154.4	153.8	153.1
107.5°	198.4	197.9	197.1	196.4	195.6	194.7	194.2	193.9	193.6	193.2	192.9
110°	224.5	224.4	223.6	222.9	222.3	221.6	221.1	220.8	220.4	220.1	219.7



TEST NUMBER: P332679-940

CATALOG NUMBER: SA4XXDIP-C1195D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	249.9	249.9	249.7	249.3	249.0	248.7	248.3	247.6	247.0	246.4	245.8
115°	287.1	286.9	287.0	287.1	287.2	287.3	287.2	286.9	286.5	286.2	285.9
117.5°	325.1	325.1	324.9	324.7	324.4	324.1	323.8	323.3	322.9	322.4	322.0
120°	348.1	347.9	348.0	348.1	348.3	348.4	348.2	347.8	347.3	346.9	346.4
122.5°	371.2	371.1	371.0	370.8	370.7	370.5	370.2	370.0	369.7	369.4	369.2
125°	403.2	402.9	403.1	403.3	403.5	403.8	403.7	403.2	402.8	402.3	401.8
127.5°	435.5	435.6	435.1	434.5	434.1	433.5	433.2	433.1	433.0	432.8	432.7
130°	454.9	454.8	454.4	454.1	453.7	453.3	453.2	453.1	452.9	452.8	452.7
132.5°	473.9	473.9	473.4	473.0	472.6	472.2	471.8	471.6	471.4	471.2	471.0
135°	500.2	500.0	499.5	499.1	498.6	498.2	498.0	498.1	498.3	498.4	498.5
137.5°	525.5	525.2	524.8	524.2	523.7	523.3	523.0	522.9	522.9	522.8	522.8
140°	541.0	540.7	540.5	540.3	540.0	539.8	539.6	539.3	539.1	538.9	538.7
142.5°	555.6	555.4	555.2	555.1	554.9	554.8	554.6	554.1	553.8	553.3	552.9
145°	576.4	576.3	576.3	576.3	576.3	576.3	576.1	575.8	575.4	575.2	574.8
147.5°	594.6	594.5	594.6	594.8	594.9	594.9	594.7	594.1	593.4	592.8	592.2
150°	606.3	606.3	606.5	606.5	606.6	606.8	606.6	606.2	605.7	605.2	604.8
152.5°	616.3	616.1	616.3	616.5	616.7	616.9	616.8	616.4	616.1	615.7	615.4
155°	629.6	629.2	629.5	629.9	630.3	630.5	630.7	630.5	630.4	630.4	630.3
157.5°	641.3	640.7	641.1	641.5	641.9	642.2	642.5	642.6	642.6	642.7	642.7
160°	648.7	648.0	648.1	648.3	648.4	648.5	648.7	649.1	649.3	649.7	650.1
162.5°	654.8	654.2	654.2	654.3	654.4	654.6	654.9	655.3	655.7	656.1	656.6
165°	663.2	662.3	662.3	662.3	662.3	662.3	662.5	663.1	663.7	664.2	664.8
167.5°	669.4	668.3	668.4	668.5	668.6	668.6	669.0	669.6	670.1	670.7	671.3
170°	673.3	672.4	672.3	672.2	672.1	672.0	672.3	673.0	673.6	674.3	675.0
172.5°	675.8	674.8	674.8	674.7	674.6	674.4	674.8	675.4	676.1	676.7	677.4
175°	678.5	677.5	677.4	677.3	677.2	677.1	677.3	678.1	678.7	679.4	680.1
177.5°	680.0	679.2	679.0	678.9	678.7	678.5	678.8	679.4	680.0	680.6	681.3
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332679-940

CATALOG NUMBER: SA4XXDIP-C1195D590U940-4F0-1E-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°	16.0	16.8	18.7	20.7	23.2	23.9	23.5	23.7	21.6	21.1	19.0
90°	2.8	4.0	5.3	6.5	7.6	8.5	9.4	10.3	11.1	11.9	12.6
92.5°	6.5	6.5	6.6	6.7	7.1	8.1	9.0	9.9	10.8	11.5	12.1
95°	24.2	20.3	16.4	12.6	10.7	10.9	11.0	11.1	11.1	11.9	12.6
97.5°	61.8	64.2	66.6	69.0	63.8	51.3	38.7	26.0	13.5	13.5	13.6
100°	85.4	87.5	89.5	91.6	84.8	69.2	53.6	38.0	22.4	20.4	18.5
102.5°	111.7	113.2	114.8	116.3	116.0	114.0	111.9	109.9	107.8	87.1	66.3
105°	153.8	154.4	155.2	155.8	156.4	157.0	157.6	158.1	158.7	159.7	160.8
107.5°	193.2	193.6	193.9	194.2	194.7	195.6	196.4	197.1	197.9	198.4	198.9
110°	220.1	220.4	220.8	221.1	221.6	222.3	222.9	223.6	224.4	224.5	224.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	246.4	247.0	247.6	248.3	248.7	249.0	249.3	249.7	249.9	249.9	249.9
115°	286.2	286.5	286.9	287.2	287.3	287.2	287.1	287.0	286.9	287.1	287.3
117.5°	322.4	322.9	323.3	323.8	324.1	324.4	324.7	324.9	325.1	325.1	325.0
120°	346.9	347.3	347.8	348.2	348.4	348.3	348.1	348.0	347.9	348.1	348.4
122.5°	369.4	369.7	370.0	370.2	370.5	370.7	370.8	371.0	371.1	371.2	371.4
125°	402.3	402.8	403.2	403.7	403.8	403.5	403.3	403.1	402.9	403.2	403.5
127.5°	432.8	433.0	433.1	433.2	433.5	434.1	434.5	435.1	435.6	435.5	435.5
130°	452.8	452.9	453.1	453.2	453.3	453.7	454.1	454.4	454.8	454.9	455.0
132.5°	471.2	471.4	471.6	471.8	472.2	472.6	473.0	473.4	473.9	473.9	474.1
135°	498.4	498.3	498.1	498.0	498.2	498.6	499.1	499.5	500.0	500.2	500.4
137.5°	522.8	522.9	522.9	523.0	523.3	523.7	524.2	524.8	525.2	525.5	525.8
140°	538.9	539.1	539.3	539.6	539.8	540.0	540.3	540.5	540.7	541.0	541.4
142.5°	553.3	553.8	554.1	554.6	554.8	554.9	555.1	555.2	555.4	555.6	555.8
145°	575.2	575.4	575.8	576.1	576.3	576.3	576.3	576.3	576.3	576.4	576.5
147.5°	592.8	593.4	594.1	594.7	594.9	594.9	594.8	594.6	594.5	594.6	594.7
150°	605.2	605.7	606.2	606.6	606.8	606.6	606.5	606.5	606.3	606.3	606.3
152.5°	615.7	616.1	616.4	616.8	616.9	616.7	616.5	616.3	616.1	616.3	616.4
155°	630.4	630.4	630.5	630.7	630.5	630.3	629.9	629.5	629.2	629.6	630.1
157.5°	642.7	642.6	642.6	642.5	642.2	641.9	641.5	641.1	640.7	641.3	641.9
160°	649.7	649.3	649.1	648.7	648.5	648.4	648.3	648.1	648.0	648.7	649.3
162.5°	656.1	655.7	655.3	654.9	654.6	654.4	654.3	654.2	654.2	654.8	655.5
165°	664.2	663.7	663.1	662.5	662.3	662.3	662.3	662.3	662.3	663.2	664.1
167.5°	670.7	670.1	669.6	669.0	668.6	668.6	668.5	668.4	668.3	669.4	670.4
170°	674.3	673.6	673.0	672.3	672.0	672.1	672.2	672.3	672.4	673.3	674.2
172.5°	676.7	676.1	675.4	674.8	674.4	674.6	674.7	674.8	674.8	675.8	676.7
175°	679.4	678.7	678.1	677.3	677.1	677.2	677.3	677.4	677.5	678.5	679.6
177.5°	680.6	680.0	679.4	678.8	678.5	678.7	678.9	679.0	679.2	680.0	680.7
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



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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°	19.7	19.3	18.8	17.7	17.2	17.2	15.6
90°	13.2	13.9	14.4	14.6	14.8	15.1	15.2
92.5°	12.8	13.5	13.8	13.9	13.9	14.0	14.0
95°	13.2	13.9	14.3	14.4	14.5	14.6	14.7
97.5°	13.6	13.7	13.8	13.9	14.0	14.1	14.3
100°	16.6	14.7	13.8	13.9	14.0	14.1	14.3
102.5°	45.7	24.9	14.5	14.6	14.6	14.6	14.6
105°	161.8	162.7	161.2	157.2	153.1	149.0	145.0
107.5°	199.4	199.8	200.3	200.7	201.2	201.6	202.1
110°	225.0	225.2	225.5	225.9	226.1	226.5	226.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	249.9	249.8	249.9	250.4	250.8	251.3	251.6
115°	287.6	287.8	287.9	287.9	287.9	287.9	287.9
117.5°	325.0	324.9	324.9	324.9	324.9	324.8	324.8
120°	348.6	348.8	348.8	348.6	348.4	348.1	347.9
122.5°	371.5	371.7	371.6	371.4	371.1	371.0	370.7
125°	403.9	404.2	404.5	404.6	404.7	404.7	404.9
127.5°	435.4	435.3	435.2	435.2	435.1	435.0	434.9
130°	455.0	455.2	455.2	455.2	455.2	455.2	455.2
132.5°	474.2	474.3	474.3	474.2	474.1	474.0	473.9
135°	500.7	500.9	501.1	501.3	501.6	501.9	502.0
137.5°	526.0	526.2	526.3	526.3	526.2	526.1	526.0
140°	541.7	542.1	542.2	542.4	542.5	542.6	542.7
142.5°	556.1	556.3	556.5	556.5	556.5	556.5	556.6
145°	576.7	576.8	576.9	577.1	577.4	577.7	577.8
147.5°	594.8	594.9	594.9	595.1	595.2	595.3	595.4
150°	606.3	606.3	606.4	606.5	606.6	606.7	606.8
152.5°	616.6	616.8	616.9	616.8	616.7	616.6	616.6
155°	630.5	631.0	631.1	630.7	630.4	630.1	629.7
157.5°	642.5	643.0	643.0	642.5	641.9	641.3	640.7
160°	650.1	650.8	650.8	650.1	649.3	648.7	648.0
162.5°	656.1	656.8	656.8	656.0	655.2	654.5	653.7
165°	664.9	665.9	665.8	664.8	663.8	662.8	661.7
167.5°	671.4	672.3	672.3	671.2	670.0	668.9	667.8
170°	675.1	676.1	675.9	674.8	673.7	672.5	671.5
172.5°	677.6	678.5	678.3	677.2	675.9	674.7	673.4
175°	680.6	681.6	681.4	680.1	678.7	677.3	676.0
177.5°	681.4	682.2	682.0	680.9	679.8	678.7	677.6
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1

(END OF REPORT)