

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: P332690-940

Luminaire Tested: **SA4XXDIP-C1195D810U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332690-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
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-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

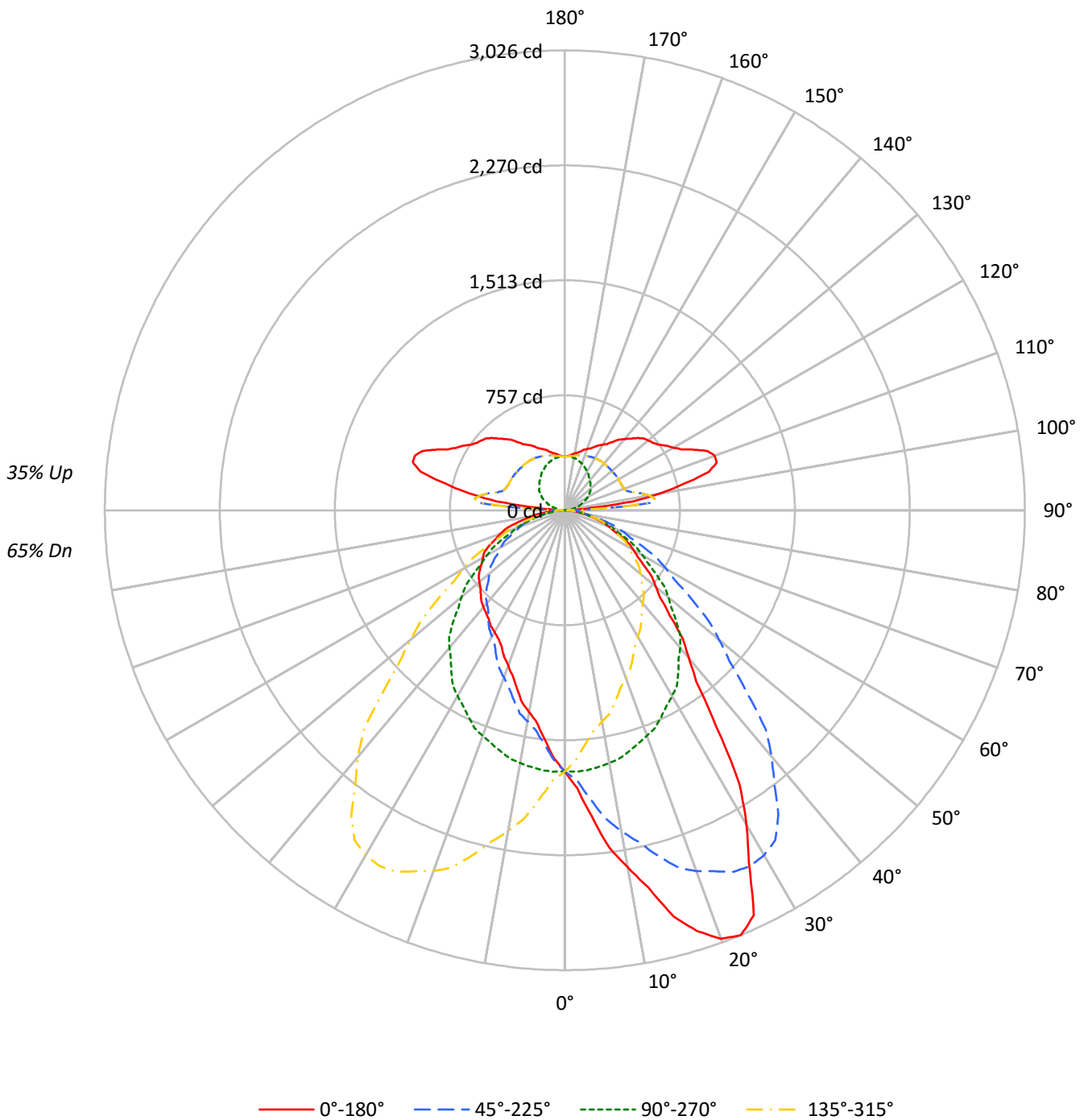
Lumens per Lamp: N/A
Luminaire Lumens: 7324.9 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	65
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	61	59	55
2	93	85	79	74	87	80	75	70	71	67	63	63	60	57	55	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	48	49	46	43	40
4	78	67	59	53	73	63	56	50	56	51	46	50	45	42	44	40	38	34
5	71	60	51	45	67	57	49	44	51	45	40	45	40	36	40	36	33	30
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	36	32	29	27
7	61	49	41	35	57	46	39	34	42	35	31	37	32	29	33	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	30	26	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	27	23	28	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	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	2.3
10°-20°	516.1	7.0
20°-30°	818.4	11.2
30°-40°	910.7	12.4
40°-50°	829.0	11.3
50°-60°	677.5	9.2
60°-70°	483.6	6.6
70°-80°	266.3	3.6
80°-90°	74.7	1.0
90°-100°	256.3	3.5
100°-110°	533.5	7.3
110°-120°	477.9	6.5
120°-130°	402.0	5.5
130°-140°	335.1	4.6
140°-150°	256.1	3.5
150°-160°	180.0	2.5
160°-170°	105.9	1.4
170°-180°	34.4	0.5
0°-30°	1501.9	20.5
0°-40°	2412.6	32.9
0°-60°	3919.1	53.5
0°-90°	4743.8	64.8
90°-120°	1267.7	17.3
90°-150°	2260.9	30.9
90°-180°	2581.0	35.2
0°-180°	7324.9	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	1	15	1	15	13
95°	170	23	170	23	170	264
105°	981	82	981	82	981	970
115°	942	144	942	144	942	935
125°	752	200	752	200	752	683
135°	672	238	672	238	672	519
145°	549	274	549	274	549	348
155°	460	312	460	312	460	214
165°	401	340	401	340	401	115
175°	361	354	361	354	361	35
180°	355	355	355	355	355	



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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°	15.4	17.2	17.3	17.7	18.7	19.4	19.7	19.0	21.1	21.8	23.9
90°	14.6	14.6	15.3	14.6	13.9	13.9	13.3	12.6	11.9	12.6	11.1
92.5°	53.7	53.7	56.1	59.8	68.0	82.0	103.1	137.0	184.2	221.1	193.6
95°	170.1	179.2	191.7	213.4	247.5	315.1	408.6	516.7	584.3	568.3	428.8
97.5°	454.8	469.2	490.2	532.2	582.2	655.0	723.2	763.3	734.1	598.5	401.4
100°	639.4	645.0	665.8	708.4	769.1	820.6	854.8	840.9	739.0	560.6	364.0
102.5°	800.0	804.5	826.5	857.4	894.6	916.1	906.2	837.0	697.2	513.2	338.9
105°	981.1	985.3	995.0	1000.6	999.2	970.5	901.5	781.0	621.3	457.4	317.3
107.5°	1048.2	1046.4	1039.5	1023.6	989.1	926.9	829.7	701.3	559.9	426.1	313.3
110°	1049.4	1043.1	1030.6	1001.2	951.7	875.0	773.9	653.4	529.2	415.5	314.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1016.5	1006.3	988.7	953.2	897.1	820.4	724.9	618.2	511.9	410.5	317.8
115°	942.0	936.4	914.1	872.3	817.2	750.2	668.7	582.9	495.7	407.9	324.2
117.5°	866.6	862.2	839.6	804.5	757.5	700.7	636.6	565.6	488.5	407.2	331.1
120°	824.1	816.5	798.3	767.7	727.9	678.4	622.7	557.8	484.6	407.2	336.1
122.5°	790.7	783.0	767.7	741.5	707.8	664.5	613.7	551.1	480.1	406.6	341.1
125°	751.6	747.4	734.2	714.0	686.1	647.7	599.7	539.7	472.7	405.8	348.7
127.5°	728.8	724.6	713.5	695.4	667.4	631.0	583.0	525.8	462.8	404.3	354.6
130°	715.4	711.2	700.1	682.6	654.0	617.1	569.6	514.6	456.7	403.7	359.1
132.5°	700.3	696.2	685.5	665.8	637.8	600.9	554.6	502.8	451.1	403.1	363.0
135°	672.2	668.0	656.8	637.3	609.4	574.5	532.0	486.7	442.7	402.3	368.8
137.5°	637.3	632.2	623.0	603.8	577.7	546.3	510.4	472.1	435.5	402.2	372.3
140°	612.2	606.6	596.8	581.5	557.1	527.8	496.4	463.7	431.6	401.6	375.1
142.5°	585.4	581.5	572.8	558.7	537.0	511.7	484.7	455.8	428.3	401.6	377.4
145°	548.8	545.3	538.2	526.5	509.0	489.5	468.6	444.9	422.5	400.2	378.6
147.5°	516.2	515.0	509.7	499.5	486.7	471.4	454.6	435.8	417.4	397.7	379.3
150°	497.8	497.1	492.9	483.9	472.7	460.2	446.2	430.2	413.5	396.0	379.3
152.5°	481.1	480.4	477.9	470.5	461.0	450.7	437.8	424.1	409.0	393.2	378.2
155°	459.5	459.5	457.4	451.8	444.9	436.5	426.1	414.8	402.3	389.1	376.5
157.5°	440.5	440.5	439.3	435.1	429.8	423.1	414.3	404.9	395.5	384.8	374.7
160°	428.8	428.8	428.1	423.9	419.7	414.2	406.5	398.9	390.5	381.4	373.0
162.5°	417.7	418.2	417.5	413.3	410.3	405.3	399.2	392.7	386.0	378.1	371.4
165°	400.9	401.6	402.3	399.5	396.7	393.2	388.3	384.1	378.6	373.0	368.2
167.5°	387.6	388.3	388.3	386.6	385.1	383.1	379.2	375.9	371.9	368.0	364.8
170°	379.3	379.3	380.0	379.3	377.9	375.9	373.0	371.0	367.5	364.6	362.6
172.5°	371.0	372.0	372.7	372.0	371.2	369.7	368.0	366.5	363.6	361.3	360.3
175°	361.1	362.6	364.0	362.6	362.6	362.6	361.1	360.5	359.1	357.7	357.7
177.5°	355.4	356.6	357.7	357.1	357.7	357.1	357.1	356.6	356.0	355.4	355.4
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



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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°	23.6	24.2	22.7	20.5	18.6	16.8	15.8	15.0	15.8	16.8	17.5
90°	9.7	9.7	5.6	5.6	4.9	4.2	2.1	0.7	2.1	4.2	4.9
92.5°	140.8	86.8	51.3	36.8	26.7	18.1	11.6	7.9	11.6	18.1	26.7
95°	262.2	147.8	87.1	57.9	41.1	32.1	25.1	23.0	25.1	32.1	41.1
97.5°	235.7	141.2	94.5	70.0	55.6	47.3	41.3	41.3	41.3	47.3	55.6
100°	221.8	142.9	101.8	79.5	66.3	57.9	53.0	53.0	53.0	57.9	66.3
102.5°	217.8	148.5	111.3	90.1	77.4	69.6	65.3	64.1	65.3	69.6	77.4
105°	219.6	161.8	128.3	108.1	95.5	87.1	83.6	81.6	83.6	87.1	95.5
107.5°	230.0	177.3	146.6	126.6	114.6	105.7	102.2	100.9	102.2	105.7	114.6
110°	237.7	189.0	158.3	139.5	126.9	118.5	115.0	113.7	115.0	118.5	126.9



TEST NUMBER: P332690-940

CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	246.1	200.1	170.6	151.7	139.2	131.3	127.3	125.9	127.3	131.3	139.2
115°	259.4	217.6	189.7	170.9	157.6	150.6	145.7	143.7	145.7	150.6	157.6
117.5°	272.9	234.4	207.9	188.4	176.0	168.4	164.0	162.0	164.0	168.4	176.0
120°	282.4	246.1	219.6	200.1	188.2	180.6	175.7	174.3	175.7	180.6	188.2
122.5°	291.3	257.3	230.8	211.8	198.9	191.7	186.9	185.5	186.9	191.7	198.9
125°	304.7	272.6	247.5	228.0	214.7	207.1	202.9	200.1	202.9	207.1	214.7
127.5°	316.3	286.9	262.6	242.9	229.1	220.3	215.3	213.1	215.3	220.3	229.1
130°	323.5	296.3	272.6	252.4	239.2	228.7	223.1	220.3	223.1	228.7	239.2
132.5°	330.7	304.2	280.4	261.4	247.0	237.1	229.8	227.6	229.8	237.1	247.0
135°	340.3	315.1	292.1	274.0	259.4	247.5	240.6	237.7	240.6	247.5	259.4
137.5°	347.0	323.5	302.0	284.7	269.6	258.2	250.6	248.0	250.6	258.2	269.6
140°	351.4	329.1	308.2	291.4	276.8	264.9	257.3	255.2	257.3	264.9	276.8
142.5°	354.7	334.1	313.8	297.6	283.5	272.2	265.1	263.0	265.1	272.2	283.5
145°	358.4	339.6	321.5	306.1	292.8	283.1	276.1	274.0	276.1	283.1	292.8
147.5°	361.6	345.2	328.1	314.3	303.3	293.3	287.1	286.4	287.1	293.3	303.3
150°	363.3	347.9	332.6	319.3	308.9	300.5	295.0	294.3	295.0	300.5	308.9
152.5°	364.4	350.2	336.5	324.4	315.0	307.2	301.7	301.5	301.7	307.2	315.0
155°	365.3	353.5	341.6	331.2	323.5	316.6	312.4	311.7	312.4	316.6	323.5
157.5°	365.3	355.9	345.8	337.6	330.9	325.5	321.6	321.6	321.6	325.5	330.9
160°	365.3	357.0	348.7	341.0	335.4	330.5	327.7	327.7	327.7	330.5	335.4
162.5°	365.3	358.1	350.3	344.3	339.3	334.9	332.7	333.3	332.7	334.9	339.3
165°	364.0	358.4	352.1	347.9	344.5	341.0	339.6	339.6	339.6	341.0	344.5
167.5°	362.3	358.3	353.7	350.4	348.5	345.8	345.2	345.8	345.2	345.8	348.5
170°	361.1	357.7	354.2	352.1	350.7	348.7	347.9	348.7	347.9	348.7	350.7
172.5°	360.1	357.1	354.7	353.2	352.4	350.9	350.7	351.4	350.7	350.9	352.4
175°	358.4	356.3	354.9	354.9	354.2	353.5	353.5	354.2	353.5	353.5	354.2
177.5°	356.6	355.4	354.9	354.9	354.9	354.4	354.9	355.4	354.9	354.4	354.9
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332690-940

CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A4

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°	19.4	19.4	22.5	23.6	25.6	28.7	29.7	36.1	38.5	41.6	46.6
90°	5.6	5.6	9.7	9.7	11.1	12.6	11.9	12.6	13.3	13.9	13.9
92.5°	36.8	51.3	86.8	140.8	193.6	221.1	184.2	137.0	103.1	82.0	68.0
95°	57.9	87.1	147.8	262.2	428.8	568.3	584.3	516.7	408.6	315.1	247.5
97.5°	70.0	94.5	141.2	235.7	401.4	598.5	734.1	763.3	723.2	655.0	582.2
100°	79.5	101.8	142.9	221.8	364.0	560.6	739.0	840.9	854.8	820.6	769.1
102.5°	90.1	111.3	148.5	217.8	338.9	513.2	697.2	837.0	906.2	916.1	894.6
105°	108.1	128.3	161.8	219.6	317.3	457.4	621.3	781.0	901.5	970.5	999.2
107.5°	126.6	146.6	177.3	230.0	313.3	426.1	559.9	701.3	829.7	926.9	989.1
110°	139.5	158.3	189.0	237.7	314.4	415.5	529.2	653.4	773.9	875.0	951.7



TEST NUMBER: P332690-940
 CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	151.7	170.6	200.1	246.1	317.8	410.5	511.9	618.2	724.9	820.4	897.1
115°	170.9	189.7	217.6	259.4	324.2	407.9	495.7	582.9	668.7	750.2	817.2
117.5°	188.4	207.9	234.4	272.9	331.1	407.2	488.5	565.6	636.6	700.7	757.5
120°	200.1	219.6	246.1	282.4	336.1	407.2	484.6	557.8	622.7	678.4	727.9
122.5°	211.8	230.8	257.3	291.3	341.1	406.6	480.1	551.1	613.7	664.5	707.8
125°	228.0	247.5	272.6	304.7	348.7	405.8	472.7	539.7	599.7	647.7	686.1
127.5°	242.9	262.6	286.9	316.3	354.6	404.3	462.8	525.8	583.0	631.0	667.4
130°	252.4	272.6	296.3	323.5	359.1	403.7	456.7	514.6	569.6	617.1	654.0
132.5°	261.4	280.4	304.2	330.7	363.0	403.1	451.1	502.8	554.6	600.9	637.8
135°	274.0	292.1	315.1	340.3	368.8	402.3	442.7	486.7	532.0	574.5	609.4
137.5°	284.7	302.0	323.5	347.0	372.3	402.2	435.5	472.1	510.4	546.3	577.7
140°	291.4	308.2	329.1	351.4	375.1	401.6	431.6	463.7	496.4	527.8	557.1
142.5°	297.6	313.8	334.1	354.7	377.4	401.6	428.3	455.8	484.7	511.7	537.0
145°	306.1	321.5	339.6	358.4	378.6	400.2	422.5	444.9	468.6	489.5	509.0
147.5°	314.3	328.1	345.2	361.6	379.3	397.7	417.4	435.8	454.6	471.4	486.7
150°	319.3	332.6	347.9	363.3	379.3	396.0	413.5	430.2	446.2	460.2	472.7
152.5°	324.4	336.5	350.2	364.4	378.2	393.2	409.0	424.1	437.8	450.7	461.0
155°	331.2	341.6	353.5	365.3	376.5	389.1	402.3	414.8	426.1	436.5	444.9
157.5°	337.6	345.8	355.9	365.3	374.7	384.8	395.5	404.9	414.3	423.1	429.8
160°	341.0	348.7	357.0	365.3	373.0	381.4	390.5	398.9	406.5	414.2	419.7
162.5°	344.3	350.3	358.1	365.3	371.4	378.1	386.0	392.7	399.2	405.3	410.3
165°	347.9	352.1	358.4	364.0	368.2	373.0	378.6	384.1	388.3	393.2	396.7
167.5°	350.4	353.7	358.3	362.3	364.8	368.0	371.9	375.9	379.2	383.1	385.1
170°	352.1	354.2	357.7	361.1	362.6	364.6	367.5	371.0	373.0	375.9	377.9
172.5°	353.2	354.7	357.1	360.1	360.3	361.3	363.6	366.5	368.0	369.7	371.2
175°	354.9	354.9	356.3	358.4	357.7	357.7	359.1	360.5	361.1	362.6	362.6
177.5°	354.9	354.9	355.4	356.6	355.4	355.4	356.0	356.6	357.1	357.1	357.7
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332690-940

CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A4

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	49.2	50.7	51.9	50.7	49.2	48.5	46.6	41.6	38.5	36.1
90°	14.6	15.3	14.6	14.6	14.6	15.3	14.6	13.9	13.9	13.3	12.6
92.5°	59.8	56.1	53.7	53.7	53.7	56.1	59.8	68.0	82.0	103.1	137.0
95°	213.4	191.7	179.2	170.1	179.2	191.7	213.4	247.5	315.1	408.6	516.7
97.5°	532.2	490.2	469.2	454.8	469.2	490.2	532.2	582.2	655.0	723.2	763.3
100°	708.4	665.8	645.0	639.4	645.0	665.8	708.4	769.1	820.6	854.8	840.9
102.5°	857.4	826.5	804.5	800.0	804.5	826.5	857.4	894.6	916.1	906.2	837.0
105°	1000.6	995.0	985.3	981.1	985.3	995.0	1000.6	999.2	970.5	901.5	781.0
107.5°	1023.6	1039.5	1046.4	1048.2	1046.4	1039.5	1023.6	989.1	926.9	829.7	701.3
110°	1001.2	1030.6	1043.1	1049.4	1043.1	1030.6	1001.2	951.7	875.0	773.9	653.4



TEST NUMBER: P332690-940

CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	953.2	988.7	1006.3	1016.5	1006.3	988.7	953.2	897.1	820.4	724.9	618.2
115°	872.3	914.1	936.4	942.0	936.4	914.1	872.3	817.2	750.2	668.7	582.9
117.5°	804.5	839.6	862.2	866.6	862.2	839.6	804.5	757.5	700.7	636.6	565.6
120°	767.7	798.3	816.5	824.1	816.5	798.3	767.7	727.9	678.4	622.7	557.8
122.5°	741.5	767.7	783.0	790.7	783.0	767.7	741.5	707.8	664.5	613.7	551.1
125°	714.0	734.2	747.4	751.6	747.4	734.2	714.0	686.1	647.7	599.7	539.7
127.5°	695.4	713.5	724.6	728.8	724.6	713.5	695.4	667.4	631.0	583.0	525.8
130°	682.6	700.1	711.2	715.4	711.2	700.1	682.6	654.0	617.1	569.6	514.6
132.5°	665.8	685.5	696.2	700.3	696.2	685.5	665.8	637.8	600.9	554.6	502.8
135°	637.3	656.8	668.0	672.2	668.0	656.8	637.3	609.4	574.5	532.0	486.7
137.5°	603.8	623.0	632.2	637.3	632.2	623.0	603.8	577.7	546.3	510.4	472.1
140°	581.5	596.8	606.6	612.2	606.6	596.8	581.5	557.1	527.8	496.4	463.7
142.5°	558.7	572.8	581.5	585.4	581.5	572.8	558.7	537.0	511.7	484.7	455.8
145°	526.5	538.2	545.3	548.8	545.3	538.2	526.5	509.0	489.5	468.6	444.9
147.5°	499.5	509.7	515.0	516.2	515.0	509.7	499.5	486.7	471.4	454.6	435.8
150°	483.9	492.9	497.1	497.8	497.1	492.9	483.9	472.7	460.2	446.2	430.2
152.5°	470.5	477.9	480.4	481.1	480.4	477.9	470.5	461.0	450.7	437.8	424.1
155°	451.8	457.4	459.5	459.5	459.5	457.4	451.8	444.9	436.5	426.1	414.8
157.5°	435.1	439.3	440.5	440.5	440.5	439.3	435.1	429.8	423.1	414.3	404.9
160°	423.9	428.1	428.8	428.8	428.8	428.1	423.9	419.7	414.2	406.5	398.9
162.5°	413.3	417.5	418.2	417.7	418.2	417.5	413.3	410.3	405.3	399.2	392.7
165°	399.5	402.3	401.6	400.9	401.6	402.3	399.5	396.7	393.2	388.3	384.1
167.5°	386.6	388.3	388.3	387.6	388.3	388.3	386.6	385.1	383.1	379.2	375.9
170°	379.3	380.0	379.3	379.3	379.3	380.0	379.3	377.9	375.9	373.0	371.0
172.5°	372.0	372.7	372.0	371.0	372.0	372.7	372.0	371.2	369.7	368.0	366.5
175°	362.6	364.0	362.6	361.1	362.6	364.0	362.6	362.6	362.6	361.1	360.5
177.5°	357.1	357.7	356.6	355.4	356.6	357.7	357.1	357.7	357.1	357.1	356.6
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332690-940

CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A4

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	28.7	25.6	23.6	22.5	19.4	19.4	17.5	16.8	15.8	15.0
90°	11.9	12.6	11.1	9.7	9.7	5.6	5.6	4.9	4.2	2.1	0.7
92.5°	184.2	221.1	193.6	140.8	86.8	51.3	36.8	26.7	18.1	11.6	7.9
95°	584.3	568.3	428.8	262.2	147.8	87.1	57.9	41.1	32.1	25.1	23.0
97.5°	734.1	598.5	401.4	235.7	141.2	94.5	70.0	55.6	47.3	41.3	41.3
100°	739.0	560.6	364.0	221.8	142.9	101.8	79.5	66.3	57.9	53.0	53.0
102.5°	697.2	513.2	338.9	217.8	148.5	111.3	90.1	77.4	69.6	65.3	64.1
105°	621.3	457.4	317.3	219.6	161.8	128.3	108.1	95.5	87.1	83.6	81.6
107.5°	559.9	426.1	313.3	230.0	177.3	146.6	126.6	114.6	105.7	102.2	100.9
110°	529.2	415.5	314.4	237.7	189.0	158.3	139.5	126.9	118.5	115.0	113.7



TEST NUMBER: P332690-940

CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	511.9	410.5	317.8	246.1	200.1	170.6	151.7	139.2	131.3	127.3	125.9
115°	495.7	407.9	324.2	259.4	217.6	189.7	170.9	157.6	150.6	145.7	143.7
117.5°	488.5	407.2	331.1	272.9	234.4	207.9	188.4	176.0	168.4	164.0	162.0
120°	484.6	407.2	336.1	282.4	246.1	219.6	200.1	188.2	180.6	175.7	174.3
122.5°	480.1	406.6	341.1	291.3	257.3	230.8	211.8	198.9	191.7	186.9	185.5
125°	472.7	405.8	348.7	304.7	272.6	247.5	228.0	214.7	207.1	202.9	200.1
127.5°	462.8	404.3	354.6	316.3	286.9	262.6	242.9	229.1	220.3	215.3	213.1
130°	456.7	403.7	359.1	323.5	296.3	272.6	252.4	239.2	228.7	223.1	220.3
132.5°	451.1	403.1	363.0	330.7	304.2	280.4	261.4	247.0	237.1	229.8	227.6
135°	442.7	402.3	368.8	340.3	315.1	292.1	274.0	259.4	247.5	240.6	237.7
137.5°	435.5	402.2	372.3	347.0	323.5	302.0	284.7	269.6	258.2	250.6	248.0
140°	431.6	401.6	375.1	351.4	329.1	308.2	291.4	276.8	264.9	257.3	255.2
142.5°	428.3	401.6	377.4	354.7	334.1	313.8	297.6	283.5	272.2	265.1	263.0
145°	422.5	400.2	378.6	358.4	339.6	321.5	306.1	292.8	283.1	276.1	274.0
147.5°	417.4	397.7	379.3	361.6	345.2	328.1	314.3	303.3	293.3	287.1	286.4
150°	413.5	396.0	379.3	363.3	347.9	332.6	319.3	308.9	300.5	295.0	294.3
152.5°	409.0	393.2	378.2	364.4	350.2	336.5	324.4	315.0	307.2	301.7	301.5
155°	402.3	389.1	376.5	365.3	353.5	341.6	331.2	323.5	316.6	312.4	311.7
157.5°	395.5	384.8	374.7	365.3	355.9	345.8	337.6	330.9	325.5	321.6	321.6
160°	390.5	381.4	373.0	365.3	357.0	348.7	341.0	335.4	330.5	327.7	327.7
162.5°	386.0	378.1	371.4	365.3	358.1	350.3	344.3	339.3	334.9	332.7	333.3
165°	378.6	373.0	368.2	364.0	358.4	352.1	347.9	344.5	341.0	339.6	339.6
167.5°	371.9	368.0	364.8	362.3	358.3	353.7	350.4	348.5	345.8	345.2	345.8
170°	367.5	364.6	362.6	361.1	357.7	354.2	352.1	350.7	348.7	347.9	348.7
172.5°	363.6	361.3	360.3	360.1	357.1	354.7	353.2	352.4	350.9	350.7	351.4
175°	359.1	357.7	357.7	358.4	356.3	354.9	354.9	354.2	353.5	353.5	354.2
177.5°	356.0	355.4	355.4	356.6	355.4	354.9	354.9	354.9	354.4	354.9	355.4
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332690-940

CATALOG NUMBER: SA4XXDIP-C1195D810U940-4F0-1E-UDD-A4

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°	15.8	16.8	18.6	20.5	22.7	24.2	23.6	23.9	21.8	21.1	19.0
90°	2.1	4.2	4.9	5.6	5.6	9.7	9.7	11.1	12.6	11.9	12.6
92.5°	11.6	18.1	26.7	36.8	51.3	86.8	140.8	193.6	221.1	184.2	137.0
95°	25.1	32.1	41.1	57.9	87.1	147.8	262.2	428.8	568.3	584.3	516.7
97.5°	41.3	47.3	55.6	70.0	94.5	141.2	235.7	401.4	598.5	734.1	763.3
100°	53.0	57.9	66.3	79.5	101.8	142.9	221.8	364.0	560.6	739.0	840.9
102.5°	65.3	69.6	77.4	90.1	111.3	148.5	217.8	338.9	513.2	697.2	837.0
105°	83.6	87.1	95.5	108.1	128.3	161.8	219.6	317.3	457.4	621.3	781.0
107.5°	102.2	105.7	114.6	126.6	146.6	177.3	230.0	313.3	426.1	559.9	701.3
110°	115.0	118.5	126.9	139.5	158.3	189.0	237.7	314.4	415.5	529.2	653.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	127.3	131.3	139.2	151.7	170.6	200.1	246.1	317.8	410.5	511.9	618.2
115°	145.7	150.6	157.6	170.9	189.7	217.6	259.4	324.2	407.9	495.7	582.9
117.5°	164.0	168.4	176.0	188.4	207.9	234.4	272.9	331.1	407.2	488.5	565.6
120°	175.7	180.6	188.2	200.1	219.6	246.1	282.4	336.1	407.2	484.6	557.8
122.5°	186.9	191.7	198.9	211.8	230.8	257.3	291.3	341.1	406.6	480.1	551.1
125°	202.9	207.1	214.7	228.0	247.5	272.6	304.7	348.7	405.8	472.7	539.7
127.5°	215.3	220.3	229.1	242.9	262.6	286.9	316.3	354.6	404.3	462.8	525.8
130°	223.1	228.7	239.2	252.4	272.6	296.3	323.5	359.1	403.7	456.7	514.6
132.5°	229.8	237.1	247.0	261.4	280.4	304.2	330.7	363.0	403.1	451.1	502.8
135°	240.6	247.5	259.4	274.0	292.1	315.1	340.3	368.8	402.3	442.7	486.7
137.5°	250.6	258.2	269.6	284.7	302.0	323.5	347.0	372.3	402.2	435.5	472.1
140°	257.3	264.9	276.8	291.4	308.2	329.1	351.4	375.1	401.6	431.6	463.7
142.5°	265.1	272.2	283.5	297.6	313.8	334.1	354.7	377.4	401.6	428.3	455.8
145°	276.1	283.1	292.8	306.1	321.5	339.6	358.4	378.6	400.2	422.5	444.9
147.5°	287.1	293.3	303.3	314.3	328.1	345.2	361.6	379.3	397.7	417.4	435.8
150°	295.0	300.5	308.9	319.3	332.6	347.9	363.3	379.3	396.0	413.5	430.2
152.5°	301.7	307.2	315.0	324.4	336.5	350.2	364.4	378.2	393.2	409.0	424.1
155°	312.4	316.6	323.5	331.2	341.6	353.5	365.3	376.5	389.1	402.3	414.8
157.5°	321.6	325.5	330.9	337.6	345.8	355.9	365.3	374.7	384.8	395.5	404.9
160°	327.7	330.5	335.4	341.0	348.7	357.0	365.3	373.0	381.4	390.5	398.9
162.5°	332.7	334.9	339.3	344.3	350.3	358.1	365.3	371.4	378.1	386.0	392.7
165°	339.6	341.0	344.5	347.9	352.1	358.4	364.0	368.2	373.0	378.6	384.1
167.5°	345.2	345.8	348.5	350.4	353.7	358.3	362.3	364.8	368.0	371.9	375.9
170°	347.9	348.7	350.7	352.1	354.2	357.7	361.1	362.6	364.6	367.5	371.0
172.5°	350.7	350.9	352.4	353.2	354.7	357.1	360.1	360.3	361.3	363.6	366.5
175°	353.5	353.5	354.2	354.9	354.9	356.3	358.4	357.7	357.7	359.1	360.5
177.5°	354.9	354.4	354.9	354.9	354.9	355.4	356.6	355.4	355.4	356.0	356.6
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



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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	19.4	18.7	17.7	17.3	17.2	15.4
90°	13.3	13.9	13.9	14.6	15.3	14.6	14.6
92.5°	103.1	82.0	68.0	59.8	56.1	53.7	53.7
95°	408.6	315.1	247.5	213.4	191.7	179.2	170.1
97.5°	723.2	655.0	582.2	532.2	490.2	469.2	454.8
100°	854.8	820.6	769.1	708.4	665.8	645.0	639.4
102.5°	906.2	916.1	894.6	857.4	826.5	804.5	800.0
105°	901.5	970.5	999.2	1000.6	995.0	985.3	981.1
107.5°	829.7	926.9	989.1	1023.6	1039.5	1046.4	1048.2
110°	773.9	875.0	951.7	1001.2	1030.6	1043.1	1049.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	724.9	820.4	897.1	953.2	988.7	1006.3	1016.5
115°	668.7	750.2	817.2	872.3	914.1	936.4	942.0
117.5°	636.6	700.7	757.5	804.5	839.6	862.2	866.6
120°	622.7	678.4	727.9	767.7	798.3	816.5	824.1
122.5°	613.7	664.5	707.8	741.5	767.7	783.0	790.7
125°	599.7	647.7	686.1	714.0	734.2	747.4	751.6
127.5°	583.0	631.0	667.4	695.4	713.5	724.6	728.8
130°	569.6	617.1	654.0	682.6	700.1	711.2	715.4
132.5°	554.6	600.9	637.8	665.8	685.5	696.2	700.3
135°	532.0	574.5	609.4	637.3	656.8	668.0	672.2
137.5°	510.4	546.3	577.7	603.8	623.0	632.2	637.3
140°	496.4	527.8	557.1	581.5	596.8	606.6	612.2
142.5°	484.7	511.7	537.0	558.7	572.8	581.5	585.4
145°	468.6	489.5	509.0	526.5	538.2	545.3	548.8
147.5°	454.6	471.4	486.7	499.5	509.7	515.0	516.2
150°	446.2	460.2	472.7	483.9	492.9	497.1	497.8
152.5°	437.8	450.7	461.0	470.5	477.9	480.4	481.1
155°	426.1	436.5	444.9	451.8	457.4	459.5	459.5
157.5°	414.3	423.1	429.8	435.1	439.3	440.5	440.5
160°	406.5	414.2	419.7	423.9	428.1	428.8	428.8
162.5°	399.2	405.3	410.3	413.3	417.5	418.2	417.7
165°	388.3	393.2	396.7	399.5	402.3	401.6	400.9
167.5°	379.2	383.1	385.1	386.6	388.3	388.3	387.6
170°	373.0	375.9	377.9	379.3	380.0	379.3	379.3
172.5°	368.0	369.7	371.2	372.0	372.7	372.0	371.0
175°	361.1	362.6	362.6	362.6	364.0	362.6	361.1
177.5°	357.1	357.1	357.7	357.1	357.7	356.6	355.4
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9

(END OF REPORT)