

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: P332672-940

Luminaire Tested: **SA4XXDIP-C1195D365U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332672-940
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-C1195D365U940-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

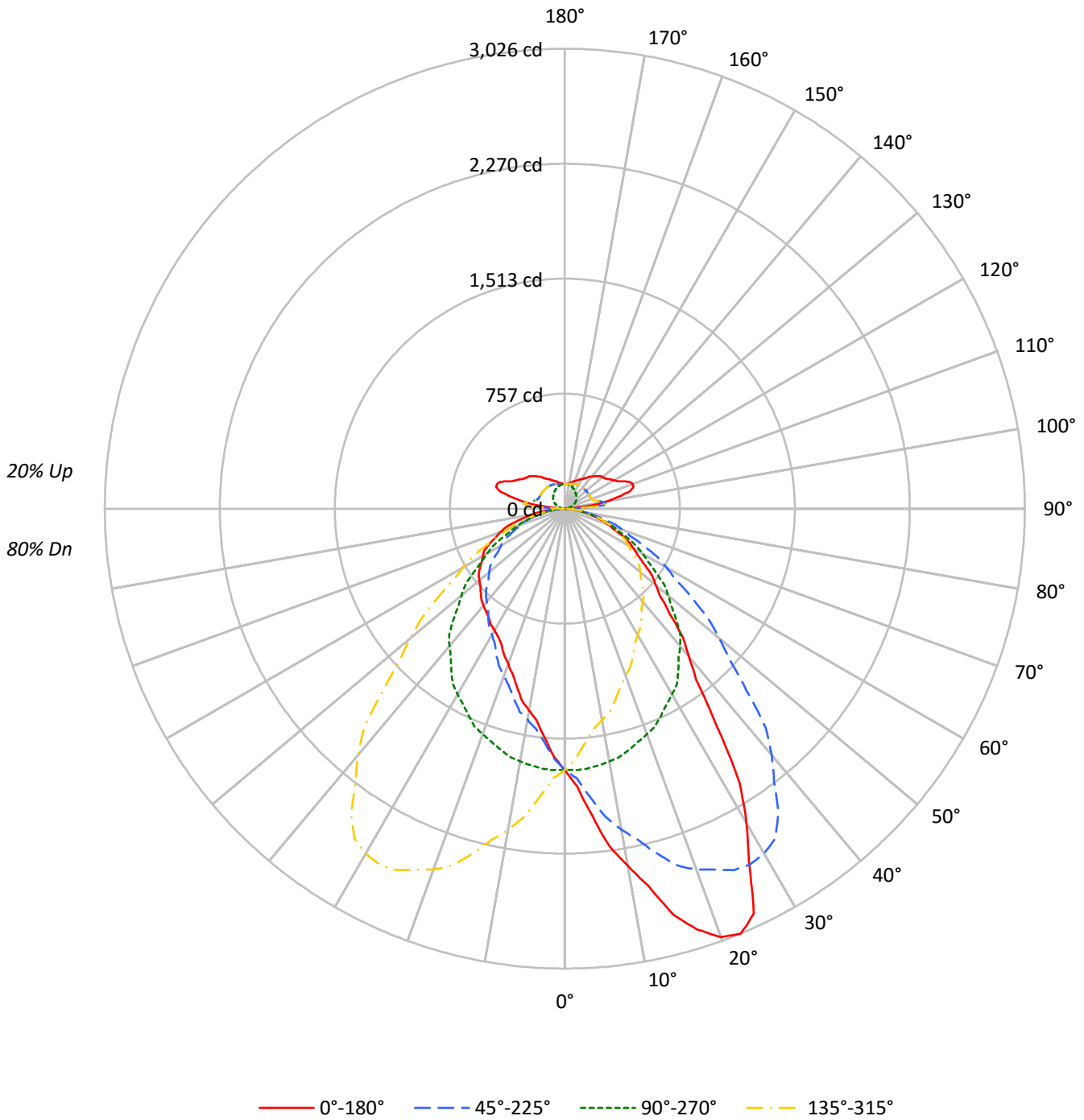
Lumens per Lamp: N/A
Luminaire Lumens: 5909.4 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	80				
1	105	101	97	93	100	96	93	90	89	86	83	81	79	77	75	73	72	68				
2	96	88	82	77	91	85	79	74	78	74	70	72	68	65	66	63	61	58				
3	88	78	70	64	84	75	68	63	69	64	59	64	59	56	59	55	52	49				
4	81	69	61	55	77	67	59	54	62	56	51	57	52	48	53	49	45	43				
5	74	62	54	48	71	60	52	46	56	49	44	52	46	42	48	43	40	37				
6	69	56	48	42	65	54	46	41	50	44	39	47	41	37	44	39	35	33				
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29				
8	59	46	38	33	57	45	37	32	42	36	31	39	34	30	37	32	28	26				
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24				
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	23	22				

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	2.8
10°-20°	516.1	8.7
20°-30°	818.4	13.8
30°-40°	910.7	15.4
40°-50°	829.0	14.0
50°-60°	677.5	11.5
60°-70°	483.6	8.2
70°-80°	266.3	4.5
80°-90°	73.6	1.2
90°-100°	115.9	2.0
100°-110°	241.1	4.1
110°-120°	216.0	3.7
120°-130°	181.7	3.1
130°-140°	151.5	2.6
140°-150°	115.7	2.0
150°-160°	81.3	1.4
160°-170°	47.8	0.8
170°-180°	15.6	0.3
0°-30°	1501.9	25.4
0°-40°	2412.6	40.8
0°-60°	3919.1	66.3
0°-90°	4742.7	80.3
90°-120°	573.0	9.7
90°-150°	1021.9	17.3
90°-180°	1167.0	19.7
0°-180°	5909.4	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°	7	0	7	0	7	7
95°	77	10	77	10	77	119
105°	443	37	443	37	443	438
115°	426	65	426	65	426	423
125°	340	90	340	90	340	309
135°	304	108	304	108	304	234
145°	248	124	248	124	248	157
155°	208	141	208	141	208	97
165°	181	154	181	154	181	52
175°	163	160	163	160	163	16
180°	160	160	160	160	160	



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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°	13.8	15.6	15.6	16.1	17.2	17.7	18.3	17.7	19.9	20.5	22.6
90°	6.6	6.6	7.0	6.6	6.3	6.3	6.0	5.7	5.4	5.7	5.1
92.5°	24.3	24.3	25.3	27.0	30.8	37.1	46.5	61.9	83.3	100.0	87.5
95°	76.9	81.0	86.7	96.4	111.9	142.4	184.7	233.5	264.1	256.8	193.9
97.5°	205.5	212.1	221.6	240.5	263.1	296.0	326.9	345.0	331.8	270.5	181.4
100°	289.0	291.5	301.0	320.2	347.6	371.0	386.4	380.0	334.0	253.4	164.5
102.5°	361.6	363.6	373.6	387.5	404.3	414.0	409.6	378.4	315.1	231.9	153.2
105°	443.4	445.3	449.7	452.3	451.7	438.7	407.5	352.9	280.8	206.7	143.4
107.5°	473.8	473.0	469.8	462.6	447.1	418.9	375.1	317.0	253.1	192.6	141.6
110°	474.3	471.4	465.8	452.5	430.2	395.6	349.8	295.3	239.2	187.8	142.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	459.4	454.9	446.9	430.9	405.5	370.8	327.6	279.4	231.4	185.6	143.7
115°	425.8	423.3	413.1	394.2	369.3	339.1	302.2	263.5	224.1	184.4	146.5
117.5°	391.6	389.7	379.5	363.6	342.4	316.7	287.8	255.7	220.8	184.0	149.6
120°	372.6	369.1	360.9	347.0	329.0	306.7	281.4	252.1	219.0	184.0	151.9
122.5°	357.4	353.9	347.0	335.1	319.9	300.3	277.4	249.1	217.0	183.8	154.2
125°	339.7	337.9	331.9	322.7	310.1	292.7	271.0	244.0	213.7	183.4	157.6
127.5°	329.4	327.5	322.4	314.3	301.7	285.3	263.5	237.6	209.2	182.7	160.3
130°	323.3	321.5	316.4	308.5	295.6	278.9	257.5	232.6	206.4	182.4	162.3
132.5°	316.6	314.7	309.9	301.0	288.3	271.6	250.7	227.3	203.9	182.3	164.1
135°	303.8	301.9	296.9	288.0	275.4	259.7	240.5	220.0	200.1	181.8	166.7
137.5°	288.0	285.8	281.6	273.0	261.1	246.9	230.7	213.4	196.9	181.8	168.3
140°	276.7	274.2	269.7	262.9	251.8	238.5	224.4	209.6	195.1	181.6	169.5
142.5°	264.6	262.9	259.0	252.5	242.7	231.2	219.1	206.1	193.6	181.6	170.6
145°	248.0	246.5	243.3	237.9	230.1	221.2	211.8	201.1	191.0	180.9	171.1
147.5°	233.4	232.7	230.4	225.8	220.0	213.0	205.5	197.0	188.7	179.8	171.5
150°	225.0	224.7	222.8	218.7	213.7	208.0	201.7	194.5	186.9	179.0	171.5
152.5°	217.5	217.1	216.0	212.7	208.4	203.8	198.0	191.7	184.9	177.7	170.9
155°	207.7	207.7	206.7	204.2	201.1	197.2	192.5	187.5	181.8	175.8	170.2
157.5°	199.1	199.1	198.6	196.6	194.3	191.3	187.3	183.1	178.8	173.9	169.3
160°	193.9	193.9	193.5	191.6	189.8	187.2	183.7	180.3	176.5	172.4	168.6
162.5°	188.8	189.0	188.7	186.8	185.5	183.2	180.5	177.5	174.5	170.9	167.8
165°	181.2	181.6	181.8	180.6	179.3	177.7	175.6	173.6	171.1	168.6	166.4
167.5°	175.2	175.5	175.6	174.7	174.1	173.2	171.4	170.0	168.1	166.3	164.9
170°	171.5	171.5	171.7	171.5	170.9	169.9	168.6	167.6	166.1	164.8	163.9
172.5°	167.6	168.2	168.4	168.2	167.8	167.1	166.3	165.7	164.3	163.3	162.9
175°	163.3	163.9	164.5	163.9	163.9	163.9	163.3	162.9	162.3	161.7	161.7
177.5°	160.7	161.1	161.7	161.4	161.7	161.4	161.4	161.1	161.0	160.7	160.7
180°	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4



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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°	22.6	23.1	22.1	19.9	18.1	16.3	15.6	14.9	15.6	16.3	16.9
90°	4.4	4.4	2.5	2.5	2.2	1.9	1.0	0.4	1.0	1.9	2.2
92.5°	63.7	39.2	23.2	16.7	12.0	8.2	5.3	3.6	5.3	8.2	12.0
95°	118.5	66.8	39.4	26.1	18.6	14.5	11.3	10.4	11.3	14.5	18.6
97.5°	106.6	63.8	42.7	31.7	25.1	21.4	18.6	18.6	18.6	21.4	25.1
100°	100.2	64.6	46.0	35.9	30.0	26.1	24.0	24.0	24.0	26.1	30.0
102.5°	98.4	67.1	50.3	40.8	35.0	31.5	29.5	29.0	29.5	31.5	35.0
105°	99.2	73.1	58.0	48.9	43.2	39.4	37.8	36.9	37.8	39.4	43.2
107.5°	104.0	80.1	66.3	57.2	51.8	47.8	46.2	45.6	46.2	47.8	51.8
110°	107.5	85.4	71.5	63.0	57.3	53.6	52.0	51.4	52.0	53.6	57.3



TEST NUMBER: P332672-940

CATALOG NUMBER: SA4XXDIP-C1195D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	111.3	90.4	77.0	68.6	62.9	59.4	57.5	56.9	57.5	59.4	62.9
115°	117.3	98.4	85.7	77.2	71.2	68.0	65.9	64.9	65.9	68.0	71.2
117.5°	123.3	105.9	94.0	85.2	79.5	76.1	74.1	73.2	74.1	76.1	79.5
120°	127.6	111.3	99.2	90.4	85.1	81.6	79.5	78.8	79.5	81.6	85.1
122.5°	131.7	116.3	104.3	95.8	89.9	86.7	84.4	83.8	84.4	86.7	89.9
125°	137.7	123.2	111.9	103.1	97.1	93.6	91.7	90.4	91.7	93.6	97.1
127.5°	142.9	129.7	118.7	109.8	103.5	99.6	97.3	96.3	97.3	99.6	103.5
130°	146.2	133.9	123.2	114.0	108.1	103.3	100.9	99.6	100.9	103.3	108.1
132.5°	149.5	137.5	126.7	118.2	111.6	107.2	103.9	102.9	103.9	107.2	111.6
135°	153.8	142.4	132.1	123.9	117.3	111.9	108.7	107.5	108.7	111.9	117.3
137.5°	156.9	146.2	136.5	128.7	121.8	116.7	113.2	112.1	113.2	116.7	121.8
140°	158.8	148.7	139.3	131.7	125.1	119.8	116.3	115.4	116.3	119.8	125.1
142.5°	160.3	151.1	141.8	134.5	128.1	123.1	119.8	118.9	119.8	123.1	128.1
145°	162.0	153.5	145.3	138.4	132.3	128.0	124.8	123.9	124.8	128.0	132.3
147.5°	163.5	156.0	148.3	142.0	137.1	132.6	129.7	129.5	129.7	132.6	137.1
150°	164.2	157.3	150.3	144.4	139.6	135.8	133.3	133.0	133.3	135.8	139.6
152.5°	164.7	158.3	152.1	146.6	142.4	138.8	136.3	136.3	136.3	138.8	142.4
155°	165.1	159.8	154.4	149.7	146.2	143.1	141.2	140.9	141.2	143.1	146.2
157.5°	165.1	160.9	156.3	152.6	149.5	147.1	145.3	145.3	145.3	147.1	149.5
160°	165.1	161.4	157.6	154.1	151.6	149.4	148.1	148.1	148.1	149.4	151.6
162.5°	165.1	161.8	158.4	155.6	153.4	151.4	150.4	150.6	150.4	151.4	153.4
165°	164.5	162.0	159.2	157.3	155.7	154.1	153.5	153.5	153.5	154.1	155.7
167.5°	163.7	161.9	159.9	158.4	157.5	156.3	156.0	156.3	156.0	156.3	157.5
170°	163.3	161.7	160.1	159.2	158.5	157.6	157.3	157.6	157.3	157.6	158.5
172.5°	162.7	161.4	160.3	159.6	159.3	158.5	158.5	158.8	158.5	158.5	159.3
175°	162.0	161.0	160.4	160.4	160.1	159.8	159.8	160.1	159.8	159.8	160.1
177.5°	161.1	160.7	160.4	160.4	160.4	160.2	160.4	160.7	160.4	160.2	160.4
180°	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4



TEST NUMBER: P332672-940

CATALOG NUMBER: SA4XXDIP-C1195D365U940-4F0-1E-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°	18.7	18.7	21.4	22.6	24.3	27.4	28.4	34.8	37.1	39.9	45.1
90°	2.5	2.5	4.4	4.4	5.1	5.7	5.4	5.7	6.0	6.3	6.3
92.5°	16.7	23.2	39.2	63.7	87.5	100.0	83.3	61.9	46.5	37.1	30.8
95°	26.1	39.4	66.8	118.5	193.9	256.8	264.1	233.5	184.7	142.4	111.9
97.5°	31.7	42.7	63.8	106.6	181.4	270.5	331.8	345.0	326.9	296.0	263.1
100°	35.9	46.0	64.6	100.2	164.5	253.4	334.0	380.0	386.4	371.0	347.6
102.5°	40.8	50.3	67.1	98.4	153.2	231.9	315.1	378.4	409.6	414.0	404.3
105°	48.9	58.0	73.1	99.2	143.4	206.7	280.8	352.9	407.5	438.7	451.7
107.5°	57.2	66.3	80.1	104.0	141.6	192.6	253.1	317.0	375.1	418.9	447.1
110°	63.0	71.5	85.4	107.5	142.1	187.8	239.2	295.3	349.8	395.6	430.2



TEST NUMBER: P332672-940

CATALOG NUMBER: SA4XXDIP-C1195D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	68.6	77.0	90.4	111.3	143.7	185.6	231.4	279.4	327.6	370.8	405.5
115°	77.2	85.7	98.4	117.3	146.5	184.4	224.1	263.5	302.2	339.1	369.3
117.5°	85.2	94.0	105.9	123.3	149.6	184.0	220.8	255.7	287.8	316.7	342.4
120°	90.4	99.2	111.3	127.6	151.9	184.0	219.0	252.1	281.4	306.7	329.0
122.5°	95.8	104.3	116.3	131.7	154.2	183.8	217.0	249.1	277.4	300.3	319.9
125°	103.1	111.9	123.2	137.7	157.6	183.4	213.7	244.0	271.0	292.7	310.1
127.5°	109.8	118.7	129.7	142.9	160.3	182.7	209.2	237.6	263.5	285.3	301.7
130°	114.0	123.2	133.9	146.2	162.3	182.4	206.4	232.6	257.5	278.9	295.6
132.5°	118.2	126.7	137.5	149.5	164.1	182.3	203.9	227.3	250.7	271.6	288.3
135°	123.9	132.1	142.4	153.8	166.7	181.8	200.1	220.0	240.5	259.7	275.4
137.5°	128.7	136.5	146.2	156.9	168.3	181.8	196.9	213.4	230.7	246.9	261.1
140°	131.7	139.3	148.7	158.8	169.5	181.6	195.1	209.6	224.4	238.5	251.8
142.5°	134.5	141.8	151.1	160.3	170.6	181.6	193.6	206.1	219.1	231.2	242.7
145°	138.4	145.3	153.5	162.0	171.1	180.9	191.0	201.1	211.8	221.2	230.1
147.5°	142.0	148.3	156.0	163.5	171.5	179.8	188.7	197.0	205.5	213.0	220.0
150°	144.4	150.3	157.3	164.2	171.5	179.0	186.9	194.5	201.7	208.0	213.7
152.5°	146.6	152.1	158.3	164.7	170.9	177.7	184.9	191.7	198.0	203.8	208.4
155°	149.7	154.4	159.8	165.1	170.2	175.8	181.8	187.5	192.5	197.2	201.1
157.5°	152.6	156.3	160.9	165.1	169.3	173.9	178.8	183.1	187.3	191.3	194.3
160°	154.1	157.6	161.4	165.1	168.6	172.4	176.5	180.3	183.7	187.2	189.8
162.5°	155.6	158.4	161.8	165.1	167.8	170.9	174.5	177.5	180.5	183.2	185.5
165°	157.3	159.2	162.0	164.5	166.4	168.6	171.1	173.6	175.6	177.7	179.3
167.5°	158.4	159.9	161.9	163.7	164.9	166.3	168.1	170.0	171.4	173.2	174.1
170°	159.2	160.1	161.7	163.3	163.9	164.8	166.1	167.6	168.6	169.9	170.9
172.5°	159.6	160.3	161.4	162.7	162.9	163.3	164.3	165.7	166.3	167.1	167.8
175°	160.4	160.4	161.0	162.0	161.7	161.7	162.3	162.9	163.3	163.9	163.9
177.5°	160.4	160.4	160.7	161.1	160.7	160.7	161.0	161.1	161.4	161.4	161.7
180°	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4



TEST NUMBER: P332672-940

CATALOG NUMBER: SA4XXDIP-C1195D365U940-4F0-1E-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°	46.9	47.5	49.1	50.3	49.1	47.5	46.9	45.1	39.9	37.1	34.8
90°	6.6	7.0	6.6	6.6	6.6	7.0	6.6	6.3	6.3	6.0	5.7
92.5°	27.0	25.3	24.3	24.3	24.3	25.3	27.0	30.8	37.1	46.5	61.9
95°	96.4	86.7	81.0	76.9	81.0	86.7	96.4	111.9	142.4	184.7	233.5
97.5°	240.5	221.6	212.1	205.5	212.1	221.6	240.5	263.1	296.0	326.9	345.0
100°	320.2	301.0	291.5	289.0	291.5	301.0	320.2	347.6	371.0	386.4	380.0
102.5°	387.5	373.6	363.6	361.6	363.6	373.6	387.5	404.3	414.0	409.6	378.4
105°	452.3	449.7	445.3	443.4	445.3	449.7	452.3	451.7	438.7	407.5	352.9
107.5°	462.6	469.8	473.0	473.8	473.0	469.8	462.6	447.1	418.9	375.1	317.0
110°	452.5	465.8	471.4	474.3	471.4	465.8	452.5	430.2	395.6	349.8	295.3



TEST NUMBER: P332672-940

CATALOG NUMBER: SA4XXDIP-C1195D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	430.9	446.9	454.9	459.4	454.9	446.9	430.9	405.5	370.8	327.6	279.4
115°	394.2	413.1	423.3	425.8	423.3	413.1	394.2	369.3	339.1	302.2	263.5
117.5°	363.6	379.5	389.7	391.6	389.7	379.5	363.6	342.4	316.7	287.8	255.7
120°	347.0	360.9	369.1	372.6	369.1	360.9	347.0	329.0	306.7	281.4	252.1
122.5°	335.1	347.0	353.9	357.4	353.9	347.0	335.1	319.9	300.3	277.4	249.1
125°	322.7	331.9	337.9	339.7	337.9	331.9	322.7	310.1	292.7	271.0	244.0
127.5°	314.3	322.4	327.5	329.4	327.5	322.4	314.3	301.7	285.3	263.5	237.6
130°	308.5	316.4	321.5	323.3	321.5	316.4	308.5	295.6	278.9	257.5	232.6
132.5°	301.0	309.9	314.7	316.6	314.7	309.9	301.0	288.3	271.6	250.7	227.3
135°	288.0	296.9	301.9	303.8	301.9	296.9	288.0	275.4	259.7	240.5	220.0
137.5°	273.0	281.6	285.8	288.0	285.8	281.6	273.0	261.1	246.9	230.7	213.4
140°	262.9	269.7	274.2	276.7	274.2	269.7	262.9	251.8	238.5	224.4	209.6
142.5°	252.5	259.0	262.9	264.6	262.9	259.0	252.5	242.7	231.2	219.1	206.1
145°	237.9	243.3	246.5	248.0	246.5	243.3	237.9	230.1	221.2	211.8	201.1
147.5°	225.8	230.4	232.7	233.4	232.7	230.4	225.8	220.0	213.0	205.5	197.0
150°	218.7	222.8	224.7	225.0	224.7	222.8	218.7	213.7	208.0	201.7	194.5
152.5°	212.7	216.0	217.1	217.5	217.1	216.0	212.7	208.4	203.8	198.0	191.7
155°	204.2	206.7	207.7	207.7	207.7	206.7	204.2	201.1	197.2	192.5	187.5
157.5°	196.6	198.6	199.1	199.1	199.1	198.6	196.6	194.3	191.3	187.3	183.1
160°	191.6	193.5	193.9	193.9	193.9	193.5	191.6	189.8	187.2	183.7	180.3
162.5°	186.8	188.7	189.0	188.8	189.0	188.7	186.8	185.5	183.2	180.5	177.5
165°	180.6	181.8	181.6	181.2	181.6	181.8	180.6	179.3	177.7	175.6	173.6
167.5°	174.7	175.6	175.5	175.2	175.5	175.6	174.7	174.1	173.2	171.4	170.0
170°	171.5	171.7	171.5	171.5	171.5	171.7	171.5	170.9	169.9	168.6	167.6
172.5°	168.2	168.4	168.2	167.6	168.2	168.4	168.2	167.8	167.1	166.3	165.7
175°	163.9	164.5	163.9	163.3	163.9	164.5	163.9	163.9	163.9	163.3	162.9
177.5°	161.4	161.7	161.1	160.7	161.1	161.7	161.4	161.7	161.4	161.4	161.1
180°	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4



TEST NUMBER: P332672-940

CATALOG NUMBER: SA4XXDIP-C1195D365U940-4F0-1E-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°	28.4	27.4	24.3	22.6	21.4	18.7	18.7	16.9	16.3	15.6	14.9
90°	5.4	5.7	5.1	4.4	4.4	2.5	2.5	2.2	1.9	1.0	0.4
92.5°	83.3	100.0	87.5	63.7	39.2	23.2	16.7	12.0	8.2	5.3	3.6
95°	264.1	256.8	193.9	118.5	66.8	39.4	26.1	18.6	14.5	11.3	10.4
97.5°	331.8	270.5	181.4	106.6	63.8	42.7	31.7	25.1	21.4	18.6	18.6
100°	334.0	253.4	164.5	100.2	64.6	46.0	35.9	30.0	26.1	24.0	24.0
102.5°	315.1	231.9	153.2	98.4	67.1	50.3	40.8	35.0	31.5	29.5	29.0
105°	280.8	206.7	143.4	99.2	73.1	58.0	48.9	43.2	39.4	37.8	36.9
107.5°	253.1	192.6	141.6	104.0	80.1	66.3	57.2	51.8	47.8	46.2	45.6
110°	239.2	187.8	142.1	107.5	85.4	71.5	63.0	57.3	53.6	52.0	51.4



TEST NUMBER: P332672-940

CATALOG NUMBER: SA4XXDIP-C1195D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	231.4	185.6	143.7	111.3	90.4	77.0	68.6	62.9	59.4	57.5	56.9
115°	224.1	184.4	146.5	117.3	98.4	85.7	77.2	71.2	68.0	65.9	64.9
117.5°	220.8	184.0	149.6	123.3	105.9	94.0	85.2	79.5	76.1	74.1	73.2
120°	219.0	184.0	151.9	127.6	111.3	99.2	90.4	85.1	81.6	79.5	78.8
122.5°	217.0	183.8	154.2	131.7	116.3	104.3	95.8	89.9	86.7	84.4	83.8
125°	213.7	183.4	157.6	137.7	123.2	111.9	103.1	97.1	93.6	91.7	90.4
127.5°	209.2	182.7	160.3	142.9	129.7	118.7	109.8	103.5	99.6	97.3	96.3
130°	206.4	182.4	162.3	146.2	133.9	123.2	114.0	108.1	103.3	100.9	99.6
132.5°	203.9	182.3	164.1	149.5	137.5	126.7	118.2	111.6	107.2	103.9	102.9
135°	200.1	181.8	166.7	153.8	142.4	132.1	123.9	117.3	111.9	108.7	107.5
137.5°	196.9	181.8	168.3	156.9	146.2	136.5	128.7	121.8	116.7	113.2	112.1
140°	195.1	181.6	169.5	158.8	148.7	139.3	131.7	125.1	119.8	116.3	115.4
142.5°	193.6	181.6	170.6	160.3	151.1	141.8	134.5	128.1	123.1	119.8	118.9
145°	191.0	180.9	171.1	162.0	153.5	145.3	138.4	132.3	128.0	124.8	123.9
147.5°	188.7	179.8	171.5	163.5	156.0	148.3	142.0	137.1	132.6	129.7	129.5
150°	186.9	179.0	171.5	164.2	157.3	150.3	144.4	139.6	135.8	133.3	133.0
152.5°	184.9	177.7	170.9	164.7	158.3	152.1	146.6	142.4	138.8	136.3	136.3
155°	181.8	175.8	170.2	165.1	159.8	154.4	149.7	146.2	143.1	141.2	140.9
157.5°	178.8	173.9	169.3	165.1	160.9	156.3	152.6	149.5	147.1	145.3	145.3
160°	176.5	172.4	168.6	165.1	161.4	157.6	154.1	151.6	149.4	148.1	148.1
162.5°	174.5	170.9	167.8	165.1	161.8	158.4	155.6	153.4	151.4	150.4	150.6
165°	171.1	168.6	166.4	164.5	162.0	159.2	157.3	155.7	154.1	153.5	153.5
167.5°	168.1	166.3	164.9	163.7	161.9	159.9	158.4	157.5	156.3	156.0	156.3
170°	166.1	164.8	163.9	163.3	161.7	160.1	159.2	158.5	157.6	157.3	157.6
172.5°	164.3	163.3	162.9	162.7	161.4	160.3	159.6	159.3	158.5	158.5	158.8
175°	162.3	161.7	161.7	162.0	161.0	160.4	160.4	160.1	159.8	159.8	160.1
177.5°	161.0	160.7	160.7	161.1	160.7	160.4	160.4	160.4	160.2	160.4	160.7
180°	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4



TEST NUMBER: P332672-940

CATALOG NUMBER: SA4XXDIP-C1195D365U940-4F0-1E-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°	15.6	16.3	18.1	19.9	22.1	23.1	22.6	22.6	20.5	19.9	17.7
90°	1.0	1.9	2.2	2.5	2.5	4.4	4.4	5.1	5.7	5.4	5.7
92.5°	5.3	8.2	12.0	16.7	23.2	39.2	63.7	87.5	100.0	83.3	61.9
95°	11.3	14.5	18.6	26.1	39.4	66.8	118.5	193.9	256.8	264.1	233.5
97.5°	18.6	21.4	25.1	31.7	42.7	63.8	106.6	181.4	270.5	331.8	345.0
100°	24.0	26.1	30.0	35.9	46.0	64.6	100.2	164.5	253.4	334.0	380.0
102.5°	29.5	31.5	35.0	40.8	50.3	67.1	98.4	153.2	231.9	315.1	378.4
105°	37.8	39.4	43.2	48.9	58.0	73.1	99.2	143.4	206.7	280.8	352.9
107.5°	46.2	47.8	51.8	57.2	66.3	80.1	104.0	141.6	192.6	253.1	317.0
110°	52.0	53.6	57.3	63.0	71.5	85.4	107.5	142.1	187.8	239.2	295.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	57.5	59.4	62.9	68.6	77.0	90.4	111.3	143.7	185.6	231.4	279.4
115°	65.9	68.0	71.2	77.2	85.7	98.4	117.3	146.5	184.4	224.1	263.5
117.5°	74.1	76.1	79.5	85.2	94.0	105.9	123.3	149.6	184.0	220.8	255.7
120°	79.5	81.6	85.1	90.4	99.2	111.3	127.6	151.9	184.0	219.0	252.1
122.5°	84.4	86.7	89.9	95.8	104.3	116.3	131.7	154.2	183.8	217.0	249.1
125°	91.7	93.6	97.1	103.1	111.9	123.2	137.7	157.6	183.4	213.7	244.0
127.5°	97.3	99.6	103.5	109.8	118.7	129.7	142.9	160.3	182.7	209.2	237.6
130°	100.9	103.3	108.1	114.0	123.2	133.9	146.2	162.3	182.4	206.4	232.6
132.5°	103.9	107.2	111.6	118.2	126.7	137.5	149.5	164.1	182.3	203.9	227.3
135°	108.7	111.9	117.3	123.9	132.1	142.4	153.8	166.7	181.8	200.1	220.0
137.5°	113.2	116.7	121.8	128.7	136.5	146.2	156.9	168.3	181.8	196.9	213.4
140°	116.3	119.8	125.1	131.7	139.3	148.7	158.8	169.5	181.6	195.1	209.6
142.5°	119.8	123.1	128.1	134.5	141.8	151.1	160.3	170.6	181.6	193.6	206.1
145°	124.8	128.0	132.3	138.4	145.3	153.5	162.0	171.1	180.9	191.0	201.1
147.5°	129.7	132.6	137.1	142.0	148.3	156.0	163.5	171.5	179.8	188.7	197.0
150°	133.3	135.8	139.6	144.4	150.3	157.3	164.2	171.5	179.0	186.9	194.5
152.5°	136.3	138.8	142.4	146.6	152.1	158.3	164.7	170.9	177.7	184.9	191.7
155°	141.2	143.1	146.2	149.7	154.4	159.8	165.1	170.2	175.8	181.8	187.5
157.5°	145.3	147.1	149.5	152.6	156.3	160.9	165.1	169.3	173.9	178.8	183.1
160°	148.1	149.4	151.6	154.1	157.6	161.4	165.1	168.6	172.4	176.5	180.3
162.5°	150.4	151.4	153.4	155.6	158.4	161.8	165.1	167.8	170.9	174.5	177.5
165°	153.5	154.1	155.7	157.3	159.2	162.0	164.5	166.4	168.6	171.1	173.6
167.5°	156.0	156.3	157.5	158.4	159.9	161.9	163.7	164.9	166.3	168.1	170.0
170°	157.3	157.6	158.5	159.2	160.1	161.7	163.3	163.9	164.8	166.1	167.6
172.5°	158.5	158.5	159.3	159.6	160.3	161.4	162.7	162.9	163.3	164.3	165.7
175°	159.8	159.8	160.1	160.4	160.4	161.0	162.0	161.7	161.7	162.3	162.9
177.5°	160.4	160.2	160.4	160.4	160.4	160.7	161.1	160.7	160.7	161.0	161.1
180°	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4	160.4



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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°	18.3	17.7	17.2	16.1	15.6	15.6	13.8
90°	6.0	6.3	6.3	6.6	7.0	6.6	6.6
92.5°	46.5	37.1	30.8	27.0	25.3	24.3	24.3
95°	184.7	142.4	111.9	96.4	86.7	81.0	76.9
97.5°	326.9	296.0	263.1	240.5	221.6	212.1	205.5
100°	386.4	371.0	347.6	320.2	301.0	291.5	289.0
102.5°	409.6	414.0	404.3	387.5	373.6	363.6	361.6
105°	407.5	438.7	451.7	452.3	449.7	445.3	443.4
107.5°	375.1	418.9	447.1	462.6	469.8	473.0	473.8
110°	349.8	395.6	430.2	452.5	465.8	471.4	474.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	327.6	370.8	405.5	430.9	446.9	454.9	459.4
115°	302.2	339.1	369.3	394.2	413.1	423.3	425.8
117.5°	287.8	316.7	342.4	363.6	379.5	389.7	391.6
120°	281.4	306.7	329.0	347.0	360.9	369.1	372.6
122.5°	277.4	300.3	319.9	335.1	347.0	353.9	357.4
125°	271.0	292.7	310.1	322.7	331.9	337.9	339.7
127.5°	263.5	285.3	301.7	314.3	322.4	327.5	329.4
130°	257.5	278.9	295.6	308.5	316.4	321.5	323.3
132.5°	250.7	271.6	288.3	301.0	309.9	314.7	316.6
135°	240.5	259.7	275.4	288.0	296.9	301.9	303.8
137.5°	230.7	246.9	261.1	273.0	281.6	285.8	288.0
140°	224.4	238.5	251.8	262.9	269.7	274.2	276.7
142.5°	219.1	231.2	242.7	252.5	259.0	262.9	264.6
145°	211.8	221.2	230.1	237.9	243.3	246.5	248.0
147.5°	205.5	213.0	220.0	225.8	230.4	232.7	233.4
150°	201.7	208.0	213.7	218.7	222.8	224.7	225.0
152.5°	198.0	203.8	208.4	212.7	216.0	217.1	217.5
155°	192.5	197.2	201.1	204.2	206.7	207.7	207.7
157.5°	187.3	191.3	194.3	196.6	198.6	199.1	199.1
160°	183.7	187.2	189.8	191.6	193.5	193.9	193.9
162.5°	180.5	183.2	185.5	186.8	188.7	189.0	188.8
165°	175.6	177.7	179.3	180.6	181.8	181.6	181.2
167.5°	171.4	173.2	174.1	174.7	175.6	175.5	175.2
170°	168.6	169.9	170.9	171.5	171.7	171.5	171.5
172.5°	166.3	167.1	167.8	168.2	168.4	168.2	167.6
175°	163.3	163.9	163.9	163.9	164.5	163.9	163.3
177.5°	161.4	161.4	161.7	161.4	161.7	161.1	160.7
180°	160.4	160.4	160.4	160.4	160.4	160.4	160.4

(END OF REPORT)