

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: P332672-935

Luminaire Tested: **SA4XXDIP-C1195D365U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332672-935
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-C1195D365U935-4F0-1E-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

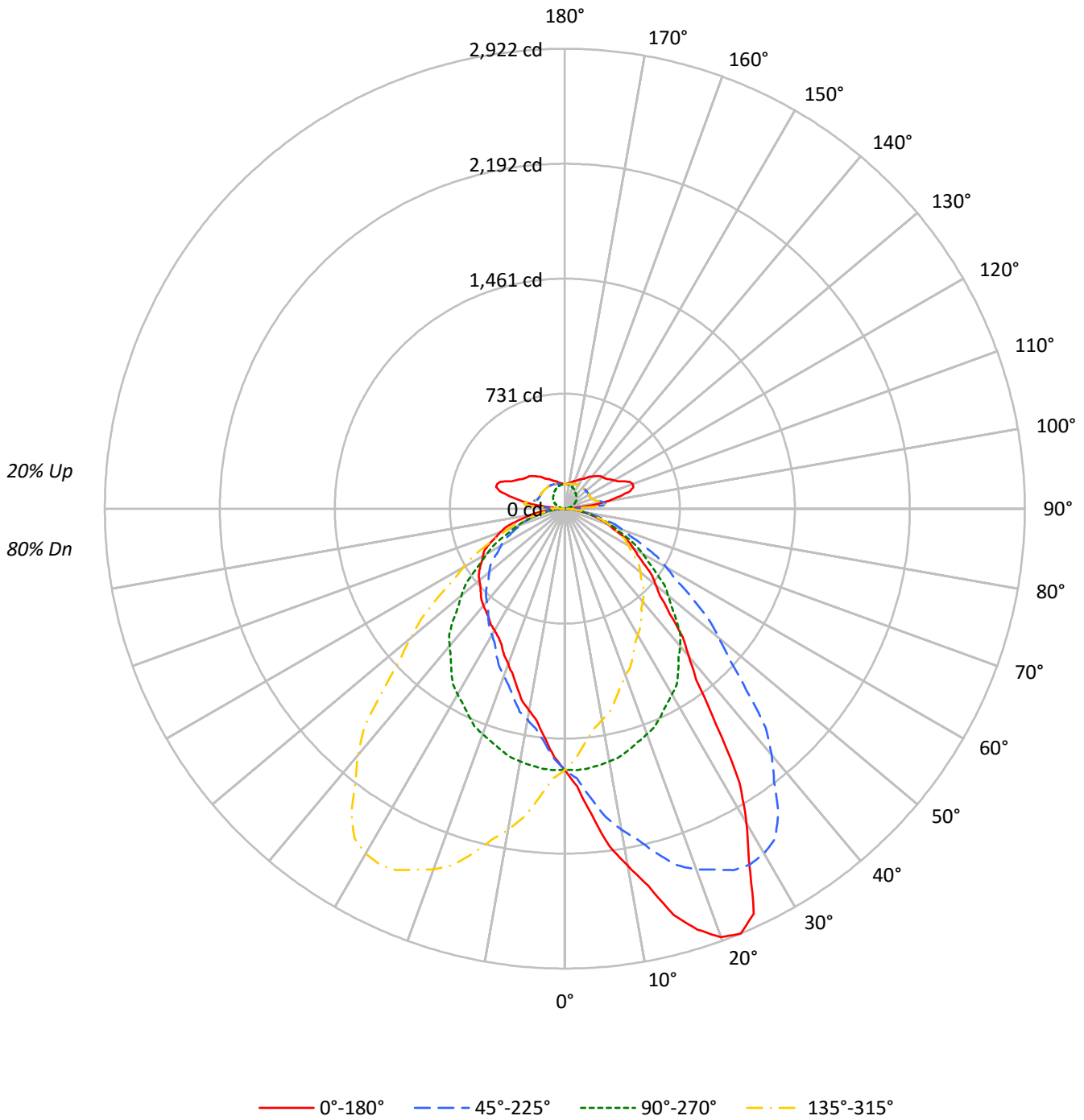
Lumens per Lamp: N/A
Luminaire Lumens: 5705.9 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

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°	13397	13397	13397	13397
5°	15776	13431	11854	13431
10°	18889	13373	10673	13373
15°	22349	13237	9802	13237
20°	24887	13099	9024	13099
25°	25289	12896	8487	12896
30°	21519	12701	8318	12701
35°	16544	12384	8319	12384
40°	12896	12012	8476	12012
45°	10752	11451	8617	11451
50°	9463	10766	8911	10766
55°	8670	9947	9270	9947
60°	8125	9213	9700	9213
65°	7564	8392	10059	8392
70°	6911	7579	10286	7579
75°	6173	6669	10162	6669
80°	5174	5463	9842	5463
85°	3816	3946	9429	3946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	2.8
10°-20°	498.3	8.7
20°-30°	790.2	13.8
30°-40°	879.4	15.4
40°-50°	800.5	14.0
50°-60°	654.1	11.5
60°-70°	467.0	8.2
70°-80°	257.1	4.5
80°-90°	71.1	1.2
90°-100°	111.9	2.0
100°-110°	232.8	4.1
110°-120°	208.5	3.7
120°-130°	175.4	3.1
130°-140°	146.3	2.6
140°-150°	111.7	2.0
150°-160°	78.5	1.4
160°-170°	46.2	0.8
170°-180°	15.0	0.3
0°-30°	1450.2	25.4
0°-40°	2329.6	40.8
0°-60°	3784.2	66.3
0°-90°	4579.4	80.3
90°-120°	553.3	9.7
90°-150°	986.7	17.3
90°-180°	1126.0	19.7
0°-180°	5705.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1660	1660	1660	1660	1660	
5°	1947	1657	1463	1657	1947	198
15°	2674	1584	1173	1584	2674	756
25°	2839	1448	953	1448	2839	1252
35°	1679	1257	844	1257	1679	1066
45°	942	1003	755	1003	942	742
55°	616	707	659	707	616	556
65°	396	439	527	439	396	392
75°	198	214	326	214	198	210
85°	41	43	102	43	41	50
90°	6	0	6	0	6	7
95°	74	10	74	10	74	115
105°	428	36	428	36	428	423
115°	411	63	411	63	411	408
125°	328	87	328	87	328	298
135°	293	104	293	104	293	226
145°	239	120	239	120	239	152
155°	200	136	200	136	200	94
165°	175	148	175	148	175	50
175°	158	154	158	154	158	15
180°	155	155	155	155	155	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1766.2	1765.6	1760.1	1759.0	1755.1	1750.2	1749.1	1740.3	1722.7	1714.4	1712.3
5°	1946.8	1960.6	1942.7	1939.2	1937.2	1914.5	1902.8	1889.0	1857.4	1838.9	1824.5
7.5°	2162.4	2164.0	2156.2	2149.9	2132.4	2112.6	2082.9	2051.3	2013.6	1974.4	1944.9
10°	2304.3	2309.8	2300.9	2299.5	2264.4	2242.4	2198.4	2161.3	2118.7	2071.2	2027.9
12.5°	2453.8	2446.2	2441.6	2412.2	2405.7	2365.6	2314.5	2276.2	2210.5	2155.9	2098.3
15°	2674.1	2659.0	2649.4	2608.8	2588.9	2533.1	2478.9	2437.0	2351.0	2269.3	2207.3
17.5°	2803.3	2818.5	2796.2	2779.6	2728.0	2689.0	2633.5	2545.5	2478.2	2376.6	2298.5
20°	2896.8	2898.2	2885.8	2868.7	2828.1	2778.6	2718.1	2621.8	2541.4	2440.4	2333.1
22.5°	2922.1	2922.4	2917.2	2901.1	2870.4	2830.3	2769.2	2689.0	2591.5	2481.7	2374.4
25°	2839.1	2836.3	2842.5	2860.4	2848.7	2836.3	2801.3	2741.5	2650.8	2534.5	2419.1
27.5°	2530.6	2549.5	2584.5	2628.5	2670.8	2703.1	2712.2	2699.9	2643.7	2548.2	2427.2
30°	2308.4	2331.8	2357.9	2401.8	2487.2	2535.9	2589.5	2630.1	2607.5	2531.2	2418.4
32.5°	2064.2	2070.0	2108.8	2158.8	2236.9	2330.8	2415.8	2498.1	2525.5	2485.4	2391.4
35°	1678.7	1688.3	1730.3	1779.8	1875.3	1990.1	2118.0	2232.1	2326.2	2364.0	2315.9
37.5°	1369.9	1397.6	1427.1	1480.3	1564.4	1667.8	1800.7	1948.4	2088.7	2182.7	2198.6
40°	1223.7	1240.8	1262.1	1302.7	1374.2	1475.9	1590.0	1759.1	1908.3	2043.1	2087.1
42.5°	1108.1	1118.2	1131.3	1167.9	1222.4	1323.6	1427.8	1576.6	1726.3	1887.4	1961.1
45°	941.8	952.1	974.0	995.4	1036.6	1106.7	1203.7	1326.0	1476.6	1631.9	1768.1
47.5°	821.7	828.2	841.3	864.1	899.1	945.4	1024.2	1126.4	1266.0	1416.8	1561.9
50°	753.5	758.9	769.2	789.9	816.7	857.9	922.6	1018.0	1127.4	1279.3	1421.6
52.5°	699.6	701.7	709.3	723.3	744.6	779.3	832.3	911.4	1013.0	1148.4	1290.2
55°	616.0	618.7	625.6	635.8	654.4	676.4	717.0	776.1	864.8	982.3	1105.4
57.5°	547.2	549.1	554.9	558.9	574.1	592.0	623.2	665.5	732.6	832.3	942.2
60°	503.2	501.8	508.7	512.1	522.5	537.6	561.6	602.2	660.6	741.1	842.1
62.5°	460.3	458.4	464.2	468.7	474.6	487.5	507.2	539.0	586.3	659.1	746.4
65°	396.0	393.2	396.7	402.2	407.7	414.5	429.0	457.1	495.0	547.2	613.9
67.5°	331.3	334.2	334.8	337.5	340.7	350.1	359.9	379.9	406.6	448.3	504.9
70°	292.8	293.5	296.3	296.3	298.3	306.6	314.9	326.5	352.7	391.2	437.2
72.5°	254.3	257.3	256.1	258.3	259.8	265.4	271.4	282.5	304.8	333.4	372.3
75°	197.9	200.0	200.0	200.7	202.8	204.8	209.7	217.9	233.8	255.0	281.8
77.5°	144.4	144.6	145.6	148.1	148.1	151.4	155.0	161.5	169.4	184.0	200.4
80°	111.3	112.7	112.0	113.4	113.4	116.1	117.5	125.8	129.2	138.9	151.9
82.5°	81.7	83.0	82.9	84.8	85.9	86.4	88.4	91.7	95.1	103.7	109.0
85°	41.2	42.6	41.2	42.6	44.7	45.4	47.4	48.1	50.9	53.0	57.8
87.5°	13.3	15.1	15.1	15.6	16.6	17.1	17.7	17.0	19.2	19.8	21.9
90°	6.4	6.4	6.7	6.4	6.1	6.1	5.8	5.5	5.2	5.5	4.9
92.5°	23.4	23.4	24.5	26.1	29.7	35.8	44.9	59.8	80.4	96.5	84.5
95°	74.2	78.2	83.7	93.1	108.1	137.5	178.3	225.5	255.0	248.0	187.2
97.5°	198.5	204.8	214.0	232.2	254.1	285.9	315.6	333.1	320.4	261.2	175.1
100°	279.1	281.5	290.6	309.2	335.6	358.2	373.1	367.0	322.5	244.7	158.9
102.5°	349.1	351.1	360.8	374.2	390.4	399.8	395.5	365.3	304.3	223.9	147.9
105°	428.2	430.0	434.2	436.7	436.1	423.6	393.5	340.8	271.1	199.6	138.4
107.5°	457.4	456.7	453.7	446.7	431.7	404.5	362.1	306.1	244.4	186.0	136.7
110°	458.0	455.2	449.8	437.0	415.3	381.9	337.8	285.2	231.0	181.3	137.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	443.6	439.2	431.5	416.0	391.5	358.0	316.3	269.8	223.4	179.2	138.7
115°	411.1	408.7	398.9	380.6	356.6	327.4	291.8	254.4	216.4	178.1	141.5
117.5°	378.2	376.3	366.4	351.1	330.6	305.8	277.8	246.8	213.2	177.7	144.5
120°	359.7	356.4	348.4	335.0	317.7	296.1	271.7	243.4	211.5	177.7	146.7
122.5°	345.1	341.7	335.0	323.6	308.9	290.0	267.9	240.5	209.6	177.5	148.9
125°	328.0	326.2	320.5	311.6	299.5	282.7	261.7	235.6	206.3	177.1	152.1
127.5°	318.1	316.2	311.3	303.5	291.3	275.4	254.4	229.5	202.0	176.4	154.8
130°	312.2	310.4	305.5	297.9	285.4	269.3	248.7	224.5	199.3	176.2	156.7
132.5°	305.7	303.8	299.2	290.6	278.4	262.3	242.0	219.5	196.9	176.0	158.4
135°	293.3	291.5	286.6	278.1	266.0	250.7	232.2	212.4	193.2	175.6	161.0
137.5°	278.1	276.0	271.9	263.6	252.1	238.4	222.7	206.0	190.1	175.6	162.5
140°	267.2	264.8	260.5	253.8	243.1	230.3	216.6	202.3	188.4	175.3	163.7
142.5°	255.5	253.8	250.0	243.8	234.4	223.3	211.5	199.0	186.9	175.3	164.7
145°	239.4	238.0	234.9	229.7	222.1	213.6	204.5	194.2	184.4	174.7	165.2
147.5°	225.3	224.7	222.5	218.0	212.4	205.7	198.4	190.2	182.2	173.6	165.6
150°	217.2	217.0	215.2	211.2	206.3	200.9	194.8	187.8	180.5	172.8	165.6
152.5°	210.0	209.7	208.5	205.3	201.2	196.7	191.1	185.1	178.5	171.6	165.1
155°	200.5	200.5	199.6	197.2	194.2	190.5	185.9	181.1	175.6	169.8	164.4
157.5°	192.3	192.3	191.7	189.9	187.6	184.7	180.8	176.8	172.6	167.9	163.5
160°	187.2	187.2	186.8	185.0	183.2	180.7	177.4	174.1	170.4	166.4	162.8
162.5°	182.3	182.5	182.2	180.4	179.1	176.8	174.3	171.4	168.5	165.0	162.0
165°	175.0	175.3	175.6	174.4	173.1	171.6	169.5	167.6	165.2	162.8	160.7
167.5°	169.2	169.4	169.5	168.7	168.1	167.2	165.5	164.1	162.3	160.6	159.2
170°	165.6	165.6	165.8	165.6	165.0	164.0	162.8	161.9	160.4	159.1	158.3
172.5°	161.9	162.4	162.6	162.4	162.0	161.4	160.6	160.0	158.7	157.6	157.3
175°	157.6	158.3	158.9	158.3	158.3	158.3	157.6	157.3	156.7	156.1	156.1
177.5°	155.2	155.6	156.1	155.8	156.1	155.8	155.8	155.6	155.4	155.2	155.2
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1712.8	1705.1	1699.6	1695.2	1683.1	1675.9	1670.4	1662.8	1654.0	1644.6	1633.1
5°	1810.0	1786.7	1769.4	1743.4	1718.6	1698.0	1676.6	1657.4	1634.0	1608.6	1590.0
7.5°	1912.2	1877.4	1832.8	1794.2	1750.8	1713.0	1679.1	1644.5	1608.4	1573.6	1541.5
10°	1977.0	1932.3	1882.8	1824.5	1769.4	1720.6	1675.2	1631.3	1588.6	1546.0	1509.6
12.5°	2046.9	1991.2	1918.0	1849.8	1788.1	1722.9	1668.1	1614.2	1562.8	1518.0	1475.5
15°	2140.7	2060.2	1975.7	1884.2	1803.1	1726.8	1651.9	1583.8	1526.1	1467.0	1425.7
17.5°	2198.3	2098.8	2002.1	1906.5	1808.4	1712.1	1631.3	1552.8	1480.5	1421.8	1369.8
20°	2236.2	2137.3	2016.9	1921.4	1804.5	1705.6	1612.1	1524.7	1449.1	1386.6	1332.9
22.5°	2269.3	2154.8	2034.5	1908.8	1792.4	1687.4	1585.1	1497.2	1420.0	1354.1	1302.7
25°	2287.1	2155.8	2025.2	1900.1	1768.1	1643.6	1550.8	1447.8	1365.2	1295.8	1240.8
27.5°	2289.1	2148.6	2000.9	1861.8	1725.6	1609.7	1492.5	1400.4	1314.7	1241.4	1188.6
30°	2282.9	2136.6	1977.7	1827.2	1690.4	1564.6	1462.8	1362.5	1275.2	1202.3	1147.3
32.5°	2263.7	2111.3	1948.0	1788.7	1646.9	1523.9	1418.8	1323.4	1238.4	1166.6	1108.8
35°	2208.0	2057.4	1883.5	1717.9	1572.9	1448.5	1353.6	1256.6	1171.4	1103.4	1047.7
37.5°	2121.0	1984.9	1808.1	1636.7	1494.2	1369.2	1275.2	1187.6	1110.8	1041.6	984.6
40°	2045.1	1925.5	1748.2	1581.1	1427.1	1308.2	1220.2	1139.8	1063.4	998.2	943.8
42.5°	1957.7	1853.5	1689.9	1512.9	1364.4	1244.9	1159.2	1086.9	1015.0	954.7	900.4
45°	1801.7	1733.0	1579.1	1415.4	1260.8	1148.0	1066.2	1003.0	942.5	883.4	838.0
47.5°	1622.5	1588.4	1458.7	1303.4	1156.5	1045.4	974.5	916.1	863.0	813.0	772.9
50°	1502.0	1485.6	1373.5	1223.7	1083.4	978.9	907.4	857.2	811.8	767.8	730.0
52.5°	1383.3	1382.7	1281.7	1144.4	1014.7	914.0	843.1	796.2	756.9	721.1	687.2
55°	1201.6	1220.9	1141.9	1019.4	903.3	812.5	748.6	706.7	679.2	649.6	624.2
57.5°	1034.8	1066.8	1001.6	893.8	796.9	713.3	657.6	626.1	596.8	578.9	560.4
60°	926.0	956.2	905.3	814.6	723.2	651.7	598.7	570.6	545.1	532.8	519.7
62.5°	829.1	856.1	818.5	734.3	655.0	586.3	541.6	514.4	497.3	483.8	475.2
65°	690.9	713.6	681.2	620.1	552.0	497.1	460.5	439.3	422.8	417.2	407.7
67.5°	558.4	579.1	561.6	509.6	455.0	413.5	385.0	364.5	354.7	349.9	343.0
70°	479.8	500.4	481.9	436.5	394.6	359.6	332.7	321.1	310.7	308.7	299.0
72.5°	413.3	427.3	408.7	373.2	337.4	307.8	287.1	274.8	269.5	265.8	260.5
75°	310.0	322.4	310.0	282.5	257.1	236.5	218.6	213.8	207.6	205.5	202.1
77.5°	219.5	230.1	220.7	203.5	184.5	168.6	158.9	152.7	151.4	147.8	149.5
80°	167.7	174.6	165.7	153.9	138.9	127.9	121.0	117.5	113.4	112.0	114.8
82.5°	120.5	123.5	118.9	111.1	99.8	92.6	88.0	84.0	83.2	83.4	83.4
85°	62.6	61.9	61.2	54.3	50.9	46.1	43.3	42.6	41.9	43.3	44.7
87.5°	21.8	22.3	21.4	19.2	17.5	15.8	15.1	14.4	15.1	15.8	16.4
90°	4.2	4.2	2.4	2.4	2.2	1.8	0.9	0.3	0.9	1.8	2.2
92.5°	61.5	37.9	22.4	16.1	11.6	7.9	5.1	3.4	5.1	7.9	11.6
95°	114.4	64.5	38.1	25.2	18.0	14.0	10.9	10.1	10.9	14.0	18.0
97.5°	102.9	61.6	41.2	30.6	24.3	20.7	18.0	18.0	18.0	20.7	24.3
100°	96.8	62.4	44.4	34.7	28.9	25.2	23.2	23.2	23.2	25.2	28.9
102.5°	95.1	64.8	48.6	39.3	33.8	30.4	28.5	28.0	28.5	30.4	33.8
105°	95.8	70.6	56.0	47.2	41.7	38.1	36.5	35.6	36.5	38.1	41.7
107.5°	100.4	77.3	64.0	55.3	50.0	46.1	44.6	44.0	44.6	46.1	50.0
110°	103.8	82.5	69.1	60.9	55.4	51.7	50.2	49.6	50.2	51.7	55.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	107.5	87.3	74.4	66.2	60.7	57.3	55.5	54.9	55.5	57.3	60.7
115°	113.2	95.0	82.7	74.6	68.8	65.7	63.6	62.7	63.6	65.7	68.8
117.5°	119.1	102.3	90.7	82.2	76.8	73.4	71.5	70.7	71.5	73.4	76.8
120°	123.2	107.5	95.8	87.3	82.1	78.8	76.7	76.1	76.7	78.8	82.1
122.5°	127.2	112.3	100.7	92.5	86.8	83.7	81.5	80.9	81.5	83.7	86.8
125°	132.9	119.0	108.1	99.5	93.8	90.4	88.5	87.3	88.5	90.4	93.8
127.5°	138.0	125.2	114.6	106.0	100.0	96.2	93.9	93.0	93.9	96.2	100.0
130°	141.2	129.3	119.0	110.1	104.4	99.8	97.4	96.2	97.4	99.8	104.4
132.5°	144.4	132.8	122.3	114.1	107.8	103.5	100.3	99.4	100.3	103.5	107.8
135°	148.5	137.5	127.5	119.6	113.2	108.1	105.0	103.8	105.0	108.1	113.2
137.5°	151.4	141.2	131.8	124.2	117.6	112.7	109.3	108.2	109.3	112.7	117.6
140°	153.3	143.6	134.5	127.2	120.8	115.6	112.3	111.4	112.3	115.6	120.8
142.5°	154.8	145.9	136.9	129.8	123.7	118.8	115.7	114.8	115.7	118.8	123.7
145°	156.4	148.2	140.3	133.6	127.8	123.6	120.5	119.6	120.5	123.6	127.8
147.5°	157.8	150.6	143.2	137.2	132.3	128.0	125.3	125.0	125.3	128.0	132.3
150°	158.5	151.9	145.2	139.4	134.8	131.1	128.7	128.4	128.7	131.1	134.8
152.5°	159.0	152.8	146.9	141.5	137.5	134.1	131.6	131.6	131.6	134.1	137.5
155°	159.5	154.3	149.1	144.6	141.2	138.2	136.3	136.0	136.3	138.2	141.2
157.5°	159.5	155.3	150.9	147.3	144.4	142.1	140.3	140.3	140.3	142.1	144.4
160°	159.5	155.8	152.1	148.8	146.4	144.2	143.0	143.0	143.0	144.2	146.4
162.5°	159.5	156.3	152.9	150.2	148.1	146.2	145.3	145.4	145.3	146.2	148.1
165°	158.9	156.4	153.7	151.9	150.3	148.8	148.2	148.2	148.2	148.8	150.3
167.5°	158.1	156.4	154.4	152.9	152.1	150.9	150.6	150.9	150.6	150.9	152.1
170°	157.6	156.1	154.5	153.7	153.1	152.1	151.9	152.1	151.9	152.1	153.1
172.5°	157.1	155.8	154.8	154.1	153.8	153.1	153.1	153.3	153.1	153.1	153.8
175°	156.4	155.5	154.9	154.9	154.5	154.3	154.3	154.5	154.3	154.3	154.5
177.5°	155.6	155.2	154.9	154.9	154.9	154.6	154.9	155.2	154.9	154.6	154.9
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9



TEST NUMBER: P332672-935

CATALOG NUMBER: SA4XXDIP-C1195D365U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1627.5	1622.6	1615.5	1605.6	1597.3	1588.5	1586.3	1583.0	1589.6	1584.2	1582.4
5°	1574.3	1559.8	1541.2	1519.9	1507.5	1489.7	1486.3	1479.4	1472.5	1471.8	1464.9
7.5°	1517.7	1496.5	1472.2	1450.4	1430.4	1410.9	1398.1	1395.3	1385.2	1379.2	1372.3
10°	1481.4	1455.3	1427.1	1406.5	1383.1	1362.5	1348.1	1339.8	1332.9	1325.3	1318.5
12.5°	1438.6	1410.7	1387.5	1365.2	1337.5	1321.8	1298.0	1283.8	1282.4	1282.5	1264.6
15°	1388.6	1361.2	1325.3	1293.7	1278.6	1248.4	1235.3	1218.8	1208.5	1198.2	1190.0
17.5°	1331.5	1297.4	1269.4	1233.1	1204.3	1180.2	1163.0	1153.1	1137.6	1123.0	1112.4
20°	1295.8	1259.4	1229.9	1191.3	1159.7	1130.1	1115.7	1102.0	1090.3	1077.9	1066.2
22.5°	1259.5	1221.4	1185.3	1147.9	1118.4	1087.3	1073.3	1054.6	1043.5	1036.6	1024.9
25°	1202.3	1161.1	1119.8	1084.1	1053.9	1026.3	1007.8	993.3	980.9	975.4	967.9
27.5°	1140.1	1099.2	1059.4	1018.7	984.4	964.5	949.6	938.7	931.6	924.3	920.9
30°	1100.6	1058.0	1015.4	977.5	945.9	926.0	912.2	904.7	899.1	895.7	892.3
32.5°	1060.4	1018.4	973.5	939.0	910.7	892.9	882.5	874.9	872.2	871.0	869.8
35°	996.1	953.5	912.2	881.3	854.5	847.6	838.7	834.6	833.2	838.0	840.1
37.5°	933.8	894.2	856.3	826.3	808.7	798.7	795.7	795.7	800.7	804.9	809.9
40°	893.6	855.1	819.4	793.3	776.8	770.6	769.2	772.7	778.2	783.0	788.5
42.5°	854.6	816.7	784.2	759.7	748.2	742.5	743.4	746.8	754.5	760.4	768.7
45°	794.0	762.3	730.7	710.8	701.2	702.6	702.6	708.8	716.3	725.2	734.2
47.5°	736.9	705.1	679.1	662.3	657.3	656.1	660.0	668.0	678.9	689.9	702.4
50°	698.4	668.2	645.5	630.3	624.9	627.0	632.4	640.0	653.1	666.8	679.8
52.5°	659.4	631.9	610.9	596.8	593.0	596.7	602.2	614.2	625.6	640.4	656.3
55°	598.7	575.4	558.9	548.5	547.2	549.2	555.4	568.5	585.0	603.6	618.7
57.5°	538.4	518.8	503.8	496.6	497.3	499.2	509.4	525.0	542.5	562.3	581.9
60°	497.7	479.8	467.4	461.9	462.6	466.7	479.1	493.6	515.6	534.9	555.4
62.5°	459.2	443.5	431.7	426.8	425.8	434.9	446.7	461.7	483.7	505.1	527.4
65°	397.4	385.0	375.3	372.6	374.6	381.5	396.7	416.6	435.1	457.8	481.2
67.5°	336.8	326.7	320.0	321.3	323.8	334.0	346.6	363.8	384.9	408.4	431.4
70°	298.3	288.7	283.2	283.9	288.0	300.4	311.4	328.6	351.3	375.3	394.6
72.5°	258.7	252.4	247.5	250.4	254.5	263.0	276.7	293.9	313.9	336.3	356.6
75°	198.6	198.6	195.9	197.9	204.1	212.4	222.7	240.6	260.5	278.4	294.9
77.5°	147.4	145.9	147.7	150.2	153.7	163.5	175.3	188.0	203.1	220.9	234.5
80°	112.7	113.4	116.8	121.0	122.3	129.9	142.3	153.9	165.7	180.8	193.9
82.5°	84.7	85.4	87.1	92.4	93.8	101.9	109.9	121.6	132.2	142.3	153.2
85°	46.1	46.1	49.5	51.6	55.0	60.5	65.3	72.2	81.8	88.7	99.0
87.5°	18.1	18.1	20.7	21.8	23.5	26.4	27.5	33.6	35.8	38.6	43.6
90°	2.4	2.4	4.2	4.2	4.9	5.5	5.2	5.5	5.8	6.1	6.1
92.5°	16.1	22.4	37.9	61.5	84.5	96.5	80.4	59.8	44.9	35.8	29.7
95°	25.2	38.1	64.5	114.4	187.2	248.0	255.0	225.5	178.3	137.5	108.1
97.5°	30.6	41.2	61.6	102.9	175.1	261.2	320.4	333.1	315.6	285.9	254.1
100°	34.7	44.4	62.4	96.8	158.9	244.7	322.5	367.0	373.1	358.2	335.6
102.5°	39.3	48.6	64.8	95.1	147.9	223.9	304.3	365.3	395.5	399.8	390.4
105°	47.2	56.0	70.6	95.8	138.4	199.6	271.1	340.8	393.5	423.6	436.1
107.5°	55.3	64.0	77.3	100.4	136.7	186.0	244.4	306.1	362.1	404.5	431.7
110°	60.9	69.1	82.5	103.8	137.2	181.3	231.0	285.2	337.8	381.9	415.3



TEST NUMBER: P332672-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	66.2	74.4	87.3	107.5	138.7	179.2	223.4	269.8	316.3	358.0	391.5
115°	74.6	82.7	95.0	113.2	141.5	178.1	216.4	254.4	291.8	327.4	356.6
117.5°	82.2	90.7	102.3	119.1	144.5	177.7	213.2	246.8	277.8	305.8	330.6
120°	87.3	95.8	107.5	123.2	146.7	177.7	211.5	243.4	271.7	296.1	317.7
122.5°	92.5	100.7	112.3	127.2	148.9	177.5	209.6	240.5	267.9	290.0	308.9
125°	99.5	108.1	119.0	132.9	152.1	177.1	206.3	235.6	261.7	282.7	299.5
127.5°	106.0	114.6	125.2	138.0	154.8	176.4	202.0	229.5	254.4	275.4	291.3
130°	110.1	119.0	129.3	141.2	156.7	176.2	199.3	224.5	248.7	269.3	285.4
132.5°	114.1	122.3	132.8	144.4	158.4	176.0	196.9	219.5	242.0	262.3	278.4
135°	119.6	127.5	137.5	148.5	161.0	175.6	193.2	212.4	232.2	250.7	266.0
137.5°	124.2	131.8	141.2	151.4	162.5	175.6	190.1	206.0	222.7	238.4	252.1
140°	127.2	134.5	143.6	153.3	163.7	175.3	188.4	202.3	216.6	230.3	243.1
142.5°	129.8	136.9	145.9	154.8	164.7	175.3	186.9	199.0	211.5	223.3	234.4
145°	133.6	140.3	148.2	156.4	165.2	174.7	184.4	194.2	204.5	213.6	222.1
147.5°	137.2	143.2	150.6	157.8	165.6	173.6	182.2	190.2	198.4	205.7	212.4
150°	139.4	145.2	151.9	158.5	165.6	172.8	180.5	187.8	194.8	200.9	206.3
152.5°	141.5	146.9	152.8	159.0	165.1	171.6	178.5	185.1	191.1	196.7	201.2
155°	144.6	149.1	154.3	159.5	164.4	169.8	175.6	181.1	185.9	190.5	194.2
157.5°	147.3	150.9	155.3	159.5	163.5	167.9	172.6	176.8	180.8	184.7	187.6
160°	148.8	152.1	155.8	159.5	162.8	166.4	170.4	174.1	177.4	180.7	183.2
162.5°	150.2	152.9	156.3	159.5	162.0	165.0	168.5	171.4	174.3	176.8	179.1
165°	151.9	153.7	156.4	158.9	160.7	162.8	165.2	167.6	169.5	171.6	173.1
167.5°	152.9	154.4	156.4	158.1	159.2	160.6	162.3	164.1	165.5	167.2	168.1
170°	153.7	154.5	156.1	157.6	158.3	159.1	160.4	161.9	162.8	164.0	165.0
172.5°	154.1	154.8	155.8	157.1	157.3	157.6	158.7	160.0	160.6	161.4	162.0
175°	154.9	154.9	155.5	156.4	156.1	156.1	156.7	157.3	157.6	158.3	158.3
177.5°	154.9	154.9	155.2	155.6	155.2	155.2	155.4	155.6	155.8	155.8	156.1
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9



TEST NUMBER: P332672-935
 CATALOG NUMBER: SA4XXDIP-C1195D365U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1581.4	1580.3	1576.4	1575.9	1576.4	1580.3	1581.4	1582.4	1584.2	1589.6	1583.0
5°	1460.8	1457.3	1455.3	1462.8	1455.3	1457.3	1460.8	1464.9	1471.8	1472.5	1479.4
7.5°	1369.9	1367.2	1361.2	1359.2	1361.2	1367.2	1369.9	1372.3	1379.2	1385.2	1395.3
10°	1311.6	1308.9	1303.4	1302.0	1303.4	1308.9	1311.6	1318.5	1325.3	1332.9	1339.8
12.5°	1255.5	1250.0	1249.0	1250.3	1249.0	1250.0	1255.5	1264.6	1282.5	1282.4	1283.8
15°	1181.0	1178.3	1170.7	1172.8	1170.7	1178.3	1181.0	1190.0	1198.2	1208.5	1218.8
17.5°	1107.6	1104.3	1095.1	1103.2	1095.1	1104.3	1107.6	1112.4	1123.0	1137.6	1153.1
20°	1061.4	1055.9	1051.1	1050.4	1051.1	1055.9	1061.4	1066.2	1077.9	1090.3	1102.0
22.5°	1017.4	1012.4	1012.0	1007.5	1012.0	1012.4	1017.4	1024.9	1036.6	1043.5	1054.6
25°	962.4	957.6	956.2	952.8	956.2	957.6	962.4	967.9	975.4	980.9	993.3
27.5°	920.2	917.8	915.4	916.4	915.4	917.8	920.2	920.9	924.3	931.6	938.7
30°	894.3	893.6	892.3	892.3	892.3	893.6	894.3	892.3	895.7	899.1	904.7
32.5°	872.9	872.8	873.6	873.6	873.6	872.8	872.9	869.8	871.0	872.2	874.9
35°	842.8	844.8	846.2	844.1	846.2	844.8	842.8	840.1	838.0	833.2	834.6
37.5°	815.5	817.6	819.6	821.9	819.6	817.6	815.5	809.9	804.9	800.7	795.7
40°	794.7	799.5	800.8	804.3	800.8	799.5	794.7	788.5	783.0	778.2	772.7
42.5°	774.9	780.2	783.8	784.5	783.8	780.2	774.9	768.7	760.4	754.5	746.8
45°	744.5	750.0	754.8	754.8	754.8	750.0	744.5	734.2	725.2	716.3	708.8
47.5°	713.0	721.0	725.8	727.0	725.8	721.0	713.0	702.4	689.9	678.9	668.0
50°	691.6	701.2	706.0	709.5	706.0	701.2	691.6	679.8	666.8	653.1	640.0
52.5°	670.6	680.3	686.7	688.5	686.7	680.3	670.6	656.3	640.4	625.6	614.2
55°	634.5	648.2	655.8	658.6	655.8	648.2	634.5	618.7	603.6	585.0	568.5
57.5°	600.4	613.0	621.8	623.9	621.8	613.0	600.4	581.9	562.3	542.5	525.0
60°	574.0	587.7	598.7	600.8	598.7	587.7	574.0	555.4	534.9	515.6	493.6
62.5°	547.1	561.4	571.3	576.6	571.3	561.4	547.1	527.4	505.1	483.7	461.7
65°	500.4	514.9	524.5	526.6	524.5	514.9	500.4	481.2	457.8	435.1	416.6
67.5°	449.6	464.0	470.4	474.3	470.4	464.0	449.6	431.4	408.4	384.9	363.8
70°	413.8	425.5	432.4	435.8	432.4	425.5	413.8	394.6	375.3	351.3	328.6
72.5°	373.2	385.4	393.4	394.0	393.4	385.4	373.2	356.6	336.3	313.9	293.9
75°	310.7	321.8	325.8	325.8	325.8	321.8	310.7	294.9	278.4	260.5	240.6
77.5°	246.0	251.6	256.8	258.0	256.8	251.6	246.0	234.5	220.9	203.1	188.0
80°	204.1	207.6	211.7	211.7	211.7	207.6	204.1	193.9	180.8	165.7	153.9
82.5°	161.3	164.2	168.3	167.7	168.3	164.2	161.3	153.2	142.3	132.2	121.6
85°	97.6	103.8	103.1	101.8	103.1	103.8	97.6	99.0	88.7	81.8	72.2
87.5°	45.3	45.9	47.4	48.6	47.4	45.9	45.3	43.6	38.6	35.8	33.6
90°	6.4	6.7	6.4	6.4	6.4	6.7	6.4	6.1	6.1	5.8	5.5
92.5°	26.1	24.5	23.4	23.4	23.4	24.5	26.1	29.7	35.8	44.9	59.8
95°	93.1	83.7	78.2	74.2	78.2	83.7	93.1	108.1	137.5	178.3	225.5
97.5°	232.2	214.0	204.8	198.5	204.8	214.0	232.2	254.1	285.9	315.6	333.1
100°	309.2	290.6	281.5	279.1	281.5	290.6	309.2	335.6	358.2	373.1	367.0
102.5°	374.2	360.8	351.1	349.1	351.1	360.8	374.2	390.4	399.8	395.5	365.3
105°	436.7	434.2	430.0	428.2	430.0	434.2	436.7	436.1	423.6	393.5	340.8
107.5°	446.7	453.7	456.7	457.4	456.7	453.7	446.7	431.7	404.5	362.1	306.1
110°	437.0	449.8	455.2	458.0	455.2	449.8	437.0	415.3	381.9	337.8	285.2



TEST NUMBER: P332672-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	416.0	431.5	439.2	443.6	439.2	431.5	416.0	391.5	358.0	316.3	269.8
115°	380.6	398.9	408.7	411.1	408.7	398.9	380.6	356.6	327.4	291.8	254.4
117.5°	351.1	366.4	376.3	378.2	376.3	366.4	351.1	330.6	305.8	277.8	246.8
120°	335.0	348.4	356.4	359.7	356.4	348.4	335.0	317.7	296.1	271.7	243.4
122.5°	323.6	335.0	341.7	345.1	341.7	335.0	323.6	308.9	290.0	267.9	240.5
125°	311.6	320.5	326.2	328.0	326.2	320.5	311.6	299.5	282.7	261.7	235.6
127.5°	303.5	311.3	316.2	318.1	316.2	311.3	303.5	291.3	275.4	254.4	229.5
130°	297.9	305.5	310.4	312.2	310.4	305.5	297.9	285.4	269.3	248.7	224.5
132.5°	290.6	299.2	303.8	305.7	303.8	299.2	290.6	278.4	262.3	242.0	219.5
135°	278.1	286.6	291.5	293.3	291.5	286.6	278.1	266.0	250.7	232.2	212.4
137.5°	263.6	271.9	276.0	278.1	276.0	271.9	263.6	252.1	238.4	222.7	206.0
140°	253.8	260.5	264.8	267.2	264.8	260.5	253.8	243.1	230.3	216.6	202.3
142.5°	243.8	250.0	253.8	255.5	253.8	250.0	243.8	234.4	223.3	211.5	199.0
145°	229.7	234.9	238.0	239.4	238.0	234.9	229.7	222.1	213.6	204.5	194.2
147.5°	218.0	222.5	224.7	225.3	224.7	222.5	218.0	212.4	205.7	198.4	190.2
150°	211.2	215.2	217.0	217.2	217.0	215.2	211.2	206.3	200.9	194.8	187.8
152.5°	205.3	208.5	209.7	210.0	209.7	208.5	205.3	201.2	196.7	191.1	185.1
155°	197.2	199.6	200.5	200.5	200.5	199.6	197.2	194.2	190.5	185.9	181.1
157.5°	189.9	191.7	192.3	192.3	192.3	191.7	189.9	187.6	184.7	180.8	176.8
160°	185.0	186.8	187.2	187.2	187.2	186.8	185.0	183.2	180.7	177.4	174.1
162.5°	180.4	182.2	182.5	182.3	182.5	182.2	180.4	179.1	176.8	174.3	171.4
165°	174.4	175.6	175.3	175.0	175.3	175.6	174.4	173.1	171.6	169.5	167.6
167.5°	168.7	169.5	169.4	169.2	169.4	169.5	168.7	168.1	167.2	165.5	164.1
170°	165.6	165.8	165.6	165.6	165.6	165.8	165.6	165.0	164.0	162.8	161.9
172.5°	162.4	162.6	162.4	161.9	162.4	162.6	162.4	162.0	161.4	160.6	160.0
175°	158.3	158.9	158.3	157.6	158.3	158.9	158.3	158.3	158.3	157.6	157.3
177.5°	155.8	156.1	155.6	155.2	155.6	156.1	155.8	156.1	155.8	155.8	155.6
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9



TEST NUMBER: P332672-935

CATALOG NUMBER: SA4XXDIP-C1195D365U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1586.3	1588.5	1597.3	1605.6	1615.5	1622.6	1627.5	1633.1	1644.6	1654.0	1662.8
5°	1486.3	1489.7	1507.5	1519.9	1541.2	1559.8	1574.3	1590.0	1608.6	1634.0	1657.4
7.5°	1398.1	1410.9	1430.4	1450.4	1472.2	1496.5	1517.7	1541.5	1573.6	1608.4	1644.5
10°	1348.1	1362.5	1383.1	1406.5	1427.1	1455.3	1481.4	1509.6	1546.0	1588.6	1631.3
12.5°	1298.0	1321.8	1337.5	1365.2	1387.5	1410.7	1438.6	1475.5	1518.0	1562.8	1614.2
15°	1235.3	1248.4	1278.6	1293.7	1325.3	1361.2	1388.6	1425.7	1467.0	1526.1	1583.8
17.5°	1163.0	1180.2	1204.3	1233.1	1269.4	1297.4	1331.5	1369.8	1421.8	1480.5	1552.8
20°	1115.7	1130.1	1159.7	1191.3	1229.9	1259.4	1295.8	1332.9	1386.6	1449.1	1524.7
22.5°	1073.3	1087.3	1118.4	1147.9	1185.3	1221.4	1259.5	1302.7	1354.1	1420.0	1497.2
25°	1007.8	1026.3	1053.9	1084.1	1119.8	1161.1	1202.3	1240.8	1295.8	1365.2	1447.8
27.5°	949.6	964.5	984.4	1018.7	1059.4	1099.2	1140.1	1188.6	1241.4	1314.7	1400.4
30°	912.2	926.0	945.9	977.5	1015.4	1058.0	1100.6	1147.3	1202.3	1275.2	1362.5
32.5°	882.5	892.9	910.7	939.0	973.5	1018.4	1060.4	1108.8	1166.6	1238.4	1323.4
35°	838.7	847.6	854.5	881.3	912.2	953.5	996.1	1047.7	1103.4	1171.4	1256.6
37.5°	795.7	798.7	808.7	826.3	856.3	894.2	933.8	984.6	1041.6	1110.8	1187.6
40°	769.2	770.6	776.8	793.3	819.4	855.1	893.6	943.8	998.2	1063.4	1139.8
42.5°	743.4	742.5	748.2	759.7	784.2	816.7	854.6	900.4	954.7	1015.0	1086.9
45°	702.6	702.6	701.2	710.8	730.7	762.3	794.0	838.0	883.4	942.5	1003.0
47.5°	660.0	656.1	657.3	662.3	679.1	705.1	736.9	772.9	813.0	863.0	916.1
50°	632.4	627.0	624.9	630.3	645.5	668.2	698.4	730.0	767.8	811.8	857.2
52.5°	602.2	596.7	593.0	596.8	610.9	631.9	659.4	687.2	721.1	756.9	796.2
55°	555.4	549.2	547.2	548.5	558.9	575.4	598.7	624.2	649.6	679.2	706.7
57.5°	509.4	499.2	497.3	496.6	503.8	518.8	538.4	560.4	578.9	596.8	626.1
60°	479.1	466.7	462.6	461.9	467.4	479.8	497.7	519.7	532.8	545.1	570.6
62.5°	446.7	434.9	425.8	426.8	431.7	443.5	459.2	475.2	483.8	497.3	514.4
65°	396.7	381.5	374.6	372.6	375.3	385.0	397.4	407.7	417.2	422.8	439.3
67.5°	346.6	334.0	323.8	321.3	320.0	326.7	336.8	343.0	349.9	354.7	364.5
70°	311.4	300.4	288.0	283.9	283.2	288.7	298.3	299.0	308.7	310.7	321.1
72.5°	276.7	263.0	254.5	250.4	247.5	252.4	258.7	260.5	265.8	269.5	274.8
75°	222.7	212.4	204.1	197.9	195.9	198.6	198.6	202.1	205.5	207.6	213.8
77.5°	175.3	163.5	153.7	150.2	147.7	145.9	147.4	149.5	147.8	151.4	152.7
80°	142.3	129.9	122.3	121.0	116.8	113.4	112.7	114.8	112.0	113.4	117.5
82.5°	109.9	101.9	93.8	92.4	87.1	85.4	84.7	83.4	83.4	83.2	84.0
85°	65.3	60.5	55.0	51.6	49.5	46.1	46.1	44.7	43.3	41.9	42.6
87.5°	27.5	26.4	23.5	21.8	20.7	18.1	18.1	16.4	15.8	15.1	14.4
90°	5.2	5.5	4.9	4.2	4.2	2.4	2.4	2.2	1.8	0.9	0.3
92.5°	80.4	96.5	84.5	61.5	37.9	22.4	16.1	11.6	7.9	5.1	3.4
95°	255.0	248.0	187.2	114.4	64.5	38.1	25.2	18.0	14.0	10.9	10.1
97.5°	320.4	261.2	175.1	102.9	61.6	41.2	30.6	24.3	20.7	18.0	18.0
100°	322.5	244.7	158.9	96.8	62.4	44.4	34.7	28.9	25.2	23.2	23.2
102.5°	304.3	223.9	147.9	95.1	64.8	48.6	39.3	33.8	30.4	28.5	28.0
105°	271.1	199.6	138.4	95.8	70.6	56.0	47.2	41.7	38.1	36.5	35.6
107.5°	244.4	186.0	136.7	100.4	77.3	64.0	55.3	50.0	46.1	44.6	44.0
110°	231.0	181.3	137.2	103.8	82.5	69.1	60.9	55.4	51.7	50.2	49.6



TEST NUMBER: P332672-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	223.4	179.2	138.7	107.5	87.3	74.4	66.2	60.7	57.3	55.5	54.9
115°	216.4	178.1	141.5	113.2	95.0	82.7	74.6	68.8	65.7	63.6	62.7
117.5°	213.2	177.7	144.5	119.1	102.3	90.7	82.2	76.8	73.4	71.5	70.7
120°	211.5	177.7	146.7	123.2	107.5	95.8	87.3	82.1	78.8	76.7	76.1
122.5°	209.6	177.5	148.9	127.2	112.3	100.7	92.5	86.8	83.7	81.5	80.9
125°	206.3	177.1	152.1	132.9	119.0	108.1	99.5	93.8	90.4	88.5	87.3
127.5°	202.0	176.4	154.8	138.0	125.2	114.6	106.0	100.0	96.2	93.9	93.0
130°	199.3	176.2	156.7	141.2	129.3	119.0	110.1	104.4	99.8	97.4	96.2
132.5°	196.9	176.0	158.4	144.4	132.8	122.3	114.1	107.8	103.5	100.3	99.4
135°	193.2	175.6	161.0	148.5	137.5	127.5	119.6	113.2	108.1	105.0	103.8
137.5°	190.1	175.6	162.5	151.4	141.2	131.8	124.2	117.6	112.7	109.3	108.2
140°	188.4	175.3	163.7	153.3	143.6	134.5	127.2	120.8	115.6	112.3	111.4
142.5°	186.9	175.3	164.7	154.8	145.9	136.9	129.8	123.7	118.8	115.7	114.8
145°	184.4	174.7	165.2	156.4	148.2	140.3	133.6	127.8	123.6	120.5	119.6
147.5°	182.2	173.6	165.6	157.8	150.6	143.2	137.2	132.3	128.0	125.3	125.0
150°	180.5	172.8	165.6	158.5	151.9	145.2	139.4	134.8	131.1	128.7	128.4
152.5°	178.5	171.6	165.1	159.0	152.8	146.9	141.5	137.5	134.1	131.6	131.6
155°	175.6	169.8	164.4	159.5	154.3	149.1	144.6	141.2	138.2	136.3	136.0
157.5°	172.6	167.9	163.5	159.5	155.3	150.9	147.3	144.4	142.1	140.3	140.3
160°	170.4	166.4	162.8	159.5	155.8	152.1	148.8	146.4	144.2	143.0	143.0
162.5°	168.5	165.0	162.0	159.5	156.3	152.9	150.2	148.1	146.2	145.3	145.4
165°	165.2	162.8	160.7	158.9	156.4	153.7	151.9	150.3	148.8	148.2	148.2
167.5°	162.3	160.6	159.2	158.1	156.4	154.4	152.9	152.1	150.9	150.6	150.9
170°	160.4	159.1	158.3	157.6	156.1	154.5	153.7	153.1	152.1	151.9	152.1
172.5°	158.7	157.6	157.3	157.1	155.8	154.8	154.1	153.8	153.1	153.1	153.3
175°	156.7	156.1	156.1	156.4	155.5	154.9	154.9	154.5	154.3	154.3	154.5
177.5°	155.4	155.2	155.2	155.6	155.2	154.9	154.9	154.9	154.6	154.9	155.2
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9



TEST NUMBER: P332672-935
 CATALOG NUMBER: SA4XXDIP-C1195D365U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1670.4	1675.9	1683.1	1695.2	1699.6	1705.1	1712.8	1712.3	1714.4	1722.7	1740.3
5°	1676.6	1698.0	1718.6	1743.4	1769.4	1786.7	1810.0	1824.5	1838.9	1857.4	1889.0
7.5°	1679.1	1713.0	1750.8	1794.2	1832.8	1877.4	1912.2	1944.9	1974.4	2013.6	2051.3
10°	1675.2	1720.6	1769.4	1824.5	1882.8	1932.3	1977.0	2027.9	2071.2	2118.7	2161.3
12.5°	1668.1	1722.9	1788.1	1849.8	1918.0	1991.2	2046.9	2098.3	2155.9	2210.5	2276.2
15°	1651.9	1726.8	1803.1	1884.2	1975.7	2060.2	2140.7	2207.3	2269.3	2351.0	2437.0
17.5°	1631.3	1712.1	1808.4	1906.5	2002.1	2098.8	2198.3	2298.5	2376.6	2478.2	2545.5
20°	1612.1	1705.6	1804.5	1921.4	2016.9	2137.3	2236.2	2333.1	2440.4	2541.4	2621.8
22.5°	1585.1	1687.4	1792.4	1908.8	2034.5	2154.8	2269.3	2374.4	2481.7	2591.5	2689.0
25°	1550.8	1643.6	1768.1	1900.1	2025.2	2155.8	2287.1	2419.1	2534.5	2650.8	2741.5
27.5°	1492.5	1609.7	1725.6	1861.8	2000.9	2148.6	2289.1	2427.2	2548.2	2643.7	2699.9
30°	1462.8	1564.6	1690.4	1827.2	1977.7	2136.6	2282.9	2418.4	2531.2	2607.5	2630.1
32.5°	1418.8	1523.9	1646.9	1788.7	1948.0	2111.3	2263.7	2391.4	2485.4	2525.5	2498.1
35°	1353.6	1448.5	1572.9	1717.9	1883.5	2057.4	2208.0	2315.9	2364.0	2326.2	2232.1
37.5°	1275.2	1369.2	1494.2	1636.7	1808.1	1984.9	2121.0	2198.6	2182.7	2088.7	1948.4
40°	1220.2	1308.2	1427.1	1581.1	1748.2	1925.5	2045.1	2087.1	2043.1	1908.3	1759.1
42.5°	1159.2	1244.9	1364.4	1512.9	1689.9	1853.5	1957.7	1961.1	1887.4	1726.3	1576.6
45°	1066.2	1148.0	1260.8	1415.4	1579.1	1733.0	1801.7	1768.1	1631.9	1476.6	1326.0
47.5°	974.5	1045.4	1156.5	1303.4	1458.7	1588.4	1622.5	1561.9	1416.8	1266.0	1126.4
50°	907.4	978.9	1083.4	1223.7	1373.5	1485.6	1502.0	1421.6	1279.3	1127.4	1018.0
52.5°	843.1	914.0	1014.7	1144.4	1281.7	1382.7	1383.3	1290.2	1148.4	1013.0	911.4
55°	748.6	812.5	903.3	1019.4	1141.9	1220.9	1201.6	1105.4	982.3	864.8	776.1
57.5°	657.6	713.3	796.9	893.8	1001.6	1066.8	1034.8	942.2	832.3	732.6	665.5
60°	598.7	651.7	723.2	814.6	905.3	956.2	926.0	842.1	741.1	660.6	602.2
62.5°	541.6	586.3	655.0	734.3	818.5	856.1	829.1	746.4	659.1	586.3	539.0
65°	460.5	497.1	552.0	620.1	681.2	713.6	690.9	613.9	547.2	495.0	457.1
67.5°	385.0	413.5	455.0	509.6	561.6	579.1	558.4	504.9	448.3	406.6	379.9
70°	332.7	359.6	394.6	436.5	481.9	500.4	479.8	437.2	391.2	352.7	326.5
72.5°	287.1	307.8	337.4	373.2	408.7	427.3	413.3	372.3	333.4	304.8	282.5
75°	218.6	236.5	257.1	282.5	310.0	322.4	310.0	281.8	255.0	233.8	217.9
77.5°	158.9	168.6	184.5	203.5	220.7	230.1	219.5	200.4	184.0	169.4	161.5
80°	121.0	127.9	138.9	153.9	165.7	174.6	167.7	151.9	138.9	129.2	125.8
82.5°	88.0	92.6	99.8	111.1	118.9	123.5	120.5	109.0	103.7	95.1	91.7
85°	43.3	46.1	50.9	54.3	61.2	61.9	62.6	57.8	53.0	50.9	48.1
87.5°	15.1	15.8	17.5	19.2	21.4	22.3	21.8	21.9	19.8	19.2	17.0
90°	0.9	1.8	2.2	2.4	2.4	4.2	4.2	4.9	5.5	5.2	5.5
92.5°	5.1	7.9	11.6	16.1	22.4	37.9	61.5	84.5	96.5	80.4	59.8
95°	10.9	14.0	18.0	25.2	38.1	64.5	114.4	187.2	248.0	255.0	225.5
97.5°	18.0	20.7	24.3	30.6	41.2	61.6	102.9	175.1	261.2	320.4	333.1
100°	23.2	25.2	28.9	34.7	44.4	62.4	96.8	158.9	244.7	322.5	367.0
102.5°	28.5	30.4	33.8	39.3	48.6	64.8	95.1	147.9	223.9	304.3	365.3
105°	36.5	38.1	41.7	47.2	56.0	70.6	95.8	138.4	199.6	271.1	340.8
107.5°	44.6	46.1	50.0	55.3	64.0	77.3	100.4	136.7	186.0	244.4	306.1
110°	50.2	51.7	55.4	60.9	69.1	82.5	103.8	137.2	181.3	231.0	285.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	55.5	57.3	60.7	66.2	74.4	87.3	107.5	138.7	179.2	223.4	269.8
115°	63.6	65.7	68.8	74.6	82.7	95.0	113.2	141.5	178.1	216.4	254.4
117.5°	71.5	73.4	76.8	82.2	90.7	102.3	119.1	144.5	177.7	213.2	246.8
120°	76.7	78.8	82.1	87.3	95.8	107.5	123.2	146.7	177.7	211.5	243.4
122.5°	81.5	83.7	86.8	92.5	100.7	112.3	127.2	148.9	177.5	209.6	240.5
125°	88.5	90.4	93.8	99.5	108.1	119.0	132.9	152.1	177.1	206.3	235.6
127.5°	93.9	96.2	100.0	106.0	114.6	125.2	138.0	154.8	176.4	202.0	229.5
130°	97.4	99.8	104.4	110.1	119.0	129.3	141.2	156.7	176.2	199.3	224.5
132.5°	100.3	103.5	107.8	114.1	122.3	132.8	144.4	158.4	176.0	196.9	219.5
135°	105.0	108.1	113.2	119.6	127.5	137.5	148.5	161.0	175.6	193.2	212.4
137.5°	109.3	112.7	117.6	124.2	131.8	141.2	151.4	162.5	175.6	190.1	206.0
140°	112.3	115.6	120.8	127.2	134.5	143.6	153.3	163.7	175.3	188.4	202.3
142.5°	115.7	118.8	123.7	129.8	136.9	145.9	154.8	164.7	175.3	186.9	199.0
145°	120.5	123.6	127.8	133.6	140.3	148.2	156.4	165.2	174.7	184.4	194.2
147.5°	125.3	128.0	132.3	137.2	143.2	150.6	157.8	165.6	173.6	182.2	190.2
150°	128.7	131.1	134.8	139.4	145.2	151.9	158.5	165.6	172.8	180.5	187.8
152.5°	131.6	134.1	137.5	141.5	146.9	152.8	159.0	165.1	171.6	178.5	185.1
155°	136.3	138.2	141.2	144.6	149.1	154.3	159.5	164.4	169.8	175.6	181.1
157.5°	140.3	142.1	144.4	147.3	150.9	155.3	159.5	163.5	167.9	172.6	176.8
160°	143.0	144.2	146.4	148.8	152.1	155.8	159.5	162.8	166.4	170.4	174.1
162.5°	145.3	146.2	148.1	150.2	152.9	156.3	159.5	162.0	165.0	168.5	171.4
165°	148.2	148.8	150.3	151.9	153.7	156.4	158.9	160.7	162.8	165.2	167.6
167.5°	150.6	150.9	152.1	152.9	154.4	156.4	158.1	159.2	160.6	162.3	164.1
170°	151.9	152.1	153.1	153.7	154.5	156.1	157.6	158.3	159.1	160.4	161.9
172.5°	153.1	153.1	153.8	154.1	154.8	155.8	157.1	157.3	157.6	158.7	160.0
175°	154.3	154.3	154.5	154.9	154.9	155.5	156.4	156.1	156.1	156.7	157.3
177.5°	154.9	154.6	154.9	154.9	154.9	155.2	155.6	155.2	155.2	155.4	155.6
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1749.1	1750.2	1755.1	1759.0	1760.1	1765.6	1766.2
5°	1902.8	1914.5	1937.2	1939.2	1942.7	1960.6	1946.8
7.5°	2082.9	2112.6	2132.4	2149.9	2156.2	2164.0	2162.4
10°	2198.4	2242.4	2264.4	2299.5	2300.9	2309.8	2304.3
12.5°	2314.5	2365.6	2405.7	2412.2	2441.6	2446.2	2453.8
15°	2478.9	2533.1	2588.9	2608.8	2649.4	2659.0	2674.1
17.5°	2633.5	2689.0	2728.0	2779.6	2796.2	2818.5	2803.3
20°	2718.1	2778.6	2828.1	2868.7	2885.8	2898.2	2896.8
22.5°	2769.2	2830.3	2870.4	2901.1	2917.2	2922.4	2922.1
25°	2801.3	2836.3	2848.7	2860.4	2842.5	2836.3	2839.1
27.5°	2712.2	2703.1	2670.8	2628.5	2584.5	2549.5	2530.6
30°	2589.5	2535.9	2487.2	2401.8	2357.9	2331.8	2308.4
32.5°	2415.8	2330.8	2236.9	2158.8	2108.8	2070.0	2064.2
35°	2118.0	1990.1	1875.3	1779.8	1730.3	1688.3	1678.7
37.5°	1800.7	1667.8	1564.4	1480.3	1427.1	1397.6	1369.9
40°	1590.0	1475.9	1374.2	1302.7	1262.1	1240.8	1223.7
42.5°	1427.8	1323.6	1222.4	1167.9	1131.3	1118.2	1108.1
45°	1203.7	1106.7	1036.6	995.4	974.0	952.1	941.8
47.5°	1024.2	945.4	899.1	864.1	841.3	828.2	821.7
50°	922.6	857.9	816.7	789.9	769.2	758.9	753.5
52.5°	832.3	779.3	744.6	723.3	709.3	701.7	699.6
55°	717.0	676.4	654.4	635.8	625.6	618.7	616.0
57.5°	623.2	592.0	574.1	558.9	554.9	549.1	547.2
60°	561.6	537.6	522.5	512.1	508.7	501.8	503.2
62.5°	507.2	487.5	474.6	468.7	464.2	458.4	460.3
65°	429.0	414.5	407.7	402.2	396.7	393.2	396.0
67.5°	359.9	350.1	340.7	337.5	334.8	334.2	331.3
70°	314.9	306.6	298.3	296.3	296.3	293.5	292.8
72.5°	271.4	265.4	259.8	258.3	256.1	257.3	254.3
75°	209.7	204.8	202.8	200.7	200.0	200.0	197.9
77.5°	155.0	151.4	148.1	148.1	145.6	144.6	144.4
80°	117.5	116.1	113.4	113.4	112.0	112.7	111.3
82.5°	88.4	86.4	85.9	84.8	82.9	83.0	81.7
85°	47.4	45.4	44.7	42.6	41.2	42.6	41.2
87.5°	17.7	17.1	16.6	15.6	15.1	15.1	13.3
90°	5.8	6.1	6.1	6.4	6.7	6.4	6.4
92.5°	44.9	35.8	29.7	26.1	24.5	23.4	23.4
95°	178.3	137.5	108.1	93.1	83.7	78.2	74.2
97.5°	315.6	285.9	254.1	232.2	214.0	204.8	198.5
100°	373.1	358.2	335.6	309.2	290.6	281.5	279.1
102.5°	395.5	399.8	390.4	374.2	360.8	351.1	349.1
105°	393.5	423.6	436.1	436.7	434.2	430.0	428.2
107.5°	362.1	404.5	431.7	446.7	453.7	456.7	457.4
110°	337.8	381.9	415.3	437.0	449.8	455.2	458.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	316.3	358.0	391.5	416.0	431.5	439.2	443.6
115°	291.8	327.4	356.6	380.6	398.9	408.7	411.1
117.5°	277.8	305.8	330.6	351.1	366.4	376.3	378.2
120°	271.7	296.1	317.7	335.0	348.4	356.4	359.7
122.5°	267.9	290.0	308.9	323.6	335.0	341.7	345.1
125°	261.7	282.7	299.5	311.6	320.5	326.2	328.0
127.5°	254.4	275.4	291.3	303.5	311.3	316.2	318.1
130°	248.7	269.3	285.4	297.9	305.5	310.4	312.2
132.5°	242.0	262.3	278.4	290.6	299.2	303.8	305.7
135°	232.2	250.7	266.0	278.1	286.6	291.5	293.3
137.5°	222.7	238.4	252.1	263.6	271.9	276.0	278.1
140°	216.6	230.3	243.1	253.8	260.5	264.8	267.2
142.5°	211.5	223.3	234.4	243.8	250.0	253.8	255.5
145°	204.5	213.6	222.1	229.7	234.9	238.0	239.4
147.5°	198.4	205.7	212.4	218.0	222.5	224.7	225.3
150°	194.8	200.9	206.3	211.2	215.2	217.0	217.2
152.5°	191.1	196.7	201.2	205.3	208.5	209.7	210.0
155°	185.9	190.5	194.2	197.2	199.6	200.5	200.5
157.5°	180.8	184.7	187.6	189.9	191.7	192.3	192.3
160°	177.4	180.7	183.2	185.0	186.8	187.2	187.2
162.5°	174.3	176.8	179.1	180.4	182.2	182.5	182.3
165°	169.5	171.6	173.1	174.4	175.6	175.3	175.0
167.5°	165.5	167.2	168.1	168.7	169.5	169.4	169.2
170°	162.8	164.0	165.0	165.6	165.8	165.6	165.6
172.5°	160.6	161.4	162.0	162.4	162.6	162.4	161.9
175°	157.6	158.3	158.3	158.3	158.9	158.3	157.6
177.5°	155.8	155.8	156.1	155.8	156.1	155.6	155.2
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9

(END OF REPORT)