

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: P332690-927

Luminaire Tested: **SA4XXDIP-C1195D810U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332690-927
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-C1195D810U927-4F0-1E-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

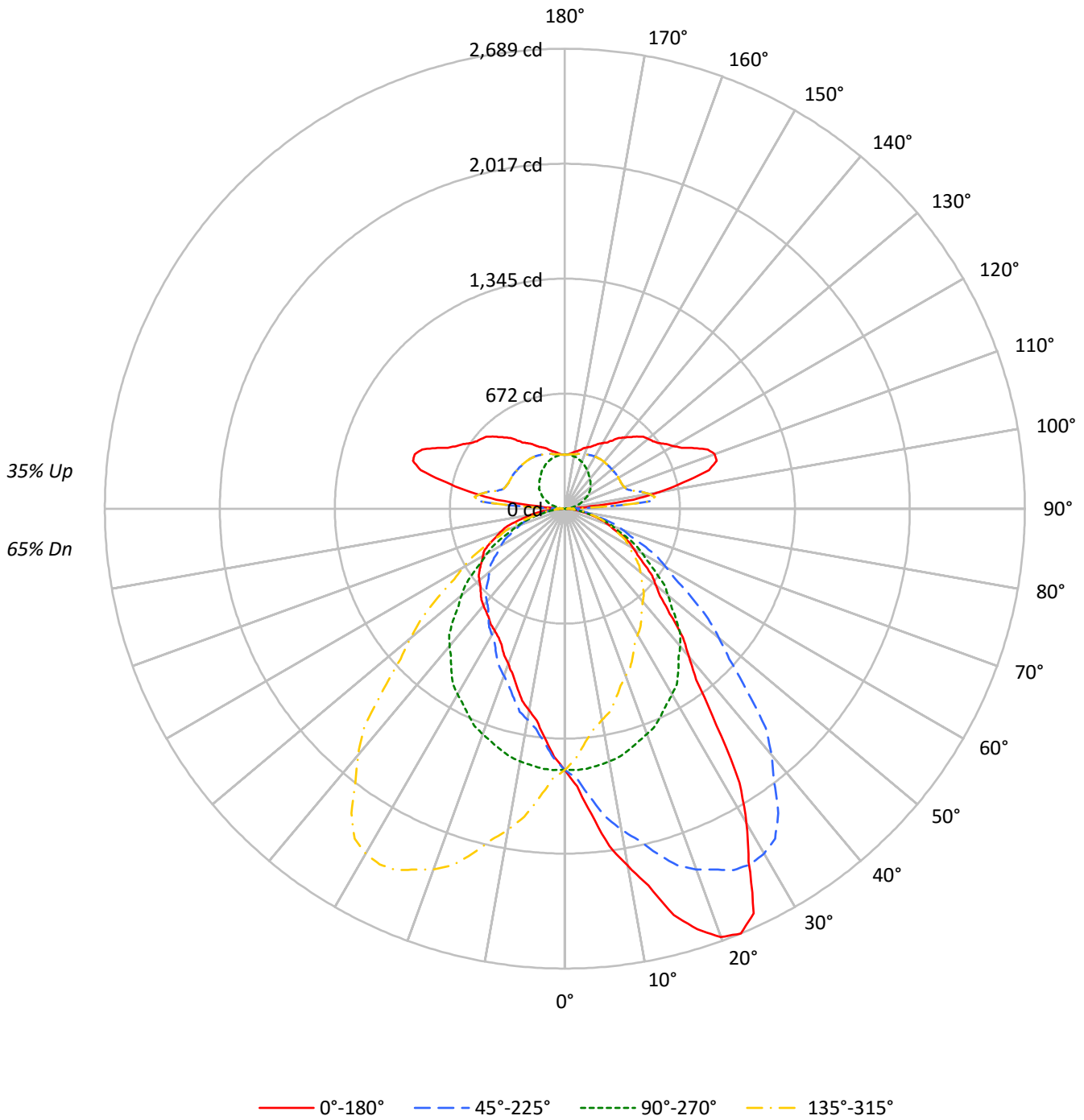
Lumens per Lamp: N/A
Luminaire Lumens: 6507.3 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

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°	12327	12327	12327	12327
5°	14515	12358	10907	12358
10°	17379	12304	9820	12304
15°	20563	12179	9018	12179
20°	22898	12052	8303	12052
25°	23267	11866	7808	11866
30°	19799	11686	7652	11686
35°	15221	11395	7655	11395
40°	11864	11052	7798	11052
45°	9893	10535	7929	10535
50°	8706	9905	8199	9905
55°	7976	9151	8528	9151
60°	7476	8477	8925	8477
65°	6959	7721	9255	7721
70°	6359	6973	9465	6973
75°	5680	6135	9351	6135
80°	4761	5026	9056	5026
85°	3511	3631	8670	3631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	2.3
10°-20°	458.5	7.0
20°-30°	727.0	11.2
30°-40°	809.1	12.4
40°-50°	736.5	11.3
50°-60°	601.9	9.2
60°-70°	429.7	6.6
70°-80°	236.6	3.6
80°-90°	66.3	1.0
90°-100°	227.7	3.5
100°-110°	474.0	7.3
110°-120°	424.5	6.5
120°-130°	357.1	5.5
130°-140°	297.7	4.6
140°-150°	227.5	3.5
150°-160°	159.9	2.5
160°-170°	94.0	1.4
170°-180°	30.6	0.5
0°-30°	1334.3	20.5
0°-40°	2143.4	32.9
0°-60°	3481.7	53.5
0°-90°	4214.3	64.8
90°-120°	1126.2	17.3
90°-150°	2008.5	30.9
90°-180°	2293.0	35.2
0°-180°	6507.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1527	1527	1527	1527	1527	
5°	1791	1525	1346	1525	1791	182
15°	2460	1457	1079	1457	2460	695
25°	2612	1332	877	1332	2612	1152
35°	1544	1156	777	1156	1544	980
45°	866	923	694	923	866	683
55°	567	650	606	650	567	512
65°	364	404	484	404	364	361
75°	182	197	300	197	182	194
85°	38	39	94	39	38	47
90°	13	1	13	1	13	12
95°	151	20	151	20	151	235
105°	872	72	872	72	872	862
115°	837	128	837	128	837	831
125°	668	178	668	178	668	607
135°	597	211	597	211	597	461
145°	488	243	488	243	488	309
155°	408	277	408	277	408	190
165°	356	302	356	302	356	102
175°	321	315	321	315	321	31
180°	315	315	315	315	315	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1625.0	1624.4	1619.5	1618.4	1614.9	1610.3	1609.3	1601.2	1585.0	1577.4	1575.4
5°	1791.2	1803.9	1787.4	1784.2	1782.3	1761.5	1750.7	1738.0	1709.0	1691.9	1678.6
7.5°	1989.6	1991.1	1983.9	1978.1	1962.0	1943.8	1916.4	1887.4	1852.7	1816.6	1789.5
10°	2120.1	2125.2	2116.9	2115.7	2083.4	2063.2	2022.7	1988.5	1949.3	1905.7	1865.8
12.5°	2257.7	2250.7	2246.5	2219.4	2213.4	2176.5	2129.5	2094.3	2033.8	1983.6	1930.6
15°	2460.4	2446.5	2437.6	2400.3	2381.9	2330.7	2280.8	2242.2	2163.1	2087.9	2030.9
17.5°	2579.3	2593.2	2572.7	2557.4	2510.0	2474.1	2423.0	2342.0	2280.1	2186.7	2114.8
20°	2665.3	2666.6	2655.2	2639.4	2602.1	2556.5	2500.8	2412.3	2338.3	2245.4	2146.7
22.5°	2688.6	2688.8	2684.0	2669.3	2641.0	2604.1	2547.9	2474.1	2384.4	2283.3	2184.6
25°	2612.1	2609.6	2615.3	2631.8	2621.0	2609.6	2577.4	2522.4	2438.9	2331.9	2225.7
27.5°	2328.3	2345.7	2377.9	2418.4	2457.3	2487.1	2495.5	2484.1	2432.4	2344.5	2233.2
30°	2123.9	2145.4	2169.5	2209.9	2288.4	2333.2	2382.6	2419.9	2399.0	2328.9	2225.1
32.5°	1899.3	1904.6	1940.2	1986.2	2058.1	2144.5	2222.7	2298.4	2323.6	2286.8	2200.3
35°	1544.5	1553.4	1592.0	1637.5	1725.5	1831.1	1948.7	2053.7	2140.3	2175.1	2130.8
37.5°	1260.4	1285.9	1313.0	1362.0	1439.4	1534.5	1656.8	1792.6	1921.8	2008.3	2022.9
40°	1125.8	1141.6	1161.3	1198.6	1264.3	1358.0	1462.9	1618.5	1755.8	1879.8	1920.2
42.5°	1019.5	1028.8	1040.8	1074.6	1124.7	1217.8	1313.7	1450.6	1588.3	1736.5	1804.4
45°	866.5	876.0	896.2	915.8	953.8	1018.3	1107.5	1220.0	1358.6	1501.5	1626.7
47.5°	756.0	762.0	774.0	795.0	827.3	869.8	942.4	1036.4	1164.8	1303.5	1437.0
50°	693.2	698.2	707.7	726.7	751.4	789.3	848.8	936.7	1037.3	1177.0	1308.0
52.5°	643.6	645.6	652.6	665.5	685.1	717.0	765.8	838.5	932.0	1056.6	1187.1
55°	566.7	569.3	575.6	585.0	602.1	622.3	659.7	714.1	795.7	903.8	1017.0
57.5°	503.4	505.3	510.6	514.2	528.2	544.7	573.4	612.3	674.1	765.8	866.9
60°	463.0	461.7	468.0	471.2	480.7	494.6	516.7	554.1	607.8	681.8	774.8
62.5°	423.5	421.8	427.1	431.3	436.7	448.5	466.7	495.9	539.5	606.4	686.7
65°	364.3	361.8	365.0	370.0	375.1	381.4	394.7	420.6	455.4	503.4	564.8
67.5°	304.8	307.5	308.0	310.5	313.5	322.1	331.1	349.5	374.1	412.5	464.5
70°	269.4	270.1	272.6	272.6	274.5	282.1	289.7	300.4	324.5	359.9	402.3
72.5°	234.0	236.7	235.7	237.7	239.1	244.2	249.7	259.9	280.4	306.7	342.5
75°	182.1	184.0	184.0	184.7	186.6	188.5	192.9	200.5	215.1	234.6	259.3
77.5°	132.8	133.1	134.0	136.3	136.3	139.3	142.6	148.6	155.8	169.3	184.3
80°	102.4	103.7	103.1	104.3	104.3	106.9	108.1	115.7	118.9	127.8	139.7
82.5°	75.2	76.4	76.3	78.0	79.1	79.5	81.4	84.4	87.5	95.4	100.3
85°	37.9	39.2	37.9	39.2	41.1	41.7	43.6	44.3	46.8	48.7	53.2
87.5°	13.7	15.3	15.4	15.8	16.6	17.2	17.5	16.9	18.8	19.4	21.2
90°	13.0	13.0	13.6	13.0	12.4	12.4	11.8	11.2	10.5	11.2	9.9
92.5°	47.7	47.7	49.8	53.2	60.4	72.9	91.6	121.7	163.7	196.5	172.0
95°	151.1	159.2	170.3	189.6	219.9	280.0	363.0	459.0	519.1	504.9	381.0
97.5°	404.0	416.8	435.5	472.8	517.2	581.9	642.5	678.1	652.1	531.7	356.6
100°	568.0	573.0	591.5	629.3	683.3	729.0	759.4	747.0	656.6	498.0	323.4
102.5°	710.7	714.7	734.3	761.7	794.7	813.8	805.0	743.5	619.4	455.9	301.0
105°	871.6	875.3	883.9	888.9	887.6	862.2	800.9	693.8	551.9	406.3	281.9
107.5°	931.2	929.6	923.4	909.3	878.7	823.5	737.1	623.1	497.4	378.6	278.4
110°	932.2	926.7	915.5	889.5	845.5	777.4	687.5	580.4	470.2	369.2	279.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	903.0	894.0	878.4	846.8	796.9	728.8	644.0	549.2	454.8	364.7	282.3
115°	836.9	831.9	812.1	774.9	726.0	666.5	594.1	517.8	440.4	362.3	288.0
117.5°	769.8	766.0	745.9	714.7	673.0	622.5	565.5	502.5	434.0	361.7	294.1
120°	732.1	725.3	709.2	682.0	646.7	602.7	553.2	495.5	430.5	361.7	298.6
122.5°	702.4	695.6	682.0	658.7	628.8	590.3	545.2	489.6	426.5	361.2	303.0
125°	667.7	664.0	652.3	634.3	609.5	575.4	532.7	479.4	419.9	360.5	309.7
127.5°	647.5	643.7	633.8	617.8	592.9	560.5	517.9	467.1	411.1	359.2	315.1
130°	635.6	631.8	621.9	606.4	581.0	548.2	506.0	457.2	405.8	358.6	319.0
132.5°	622.2	618.5	609.0	591.5	566.6	533.9	492.7	446.7	400.8	358.1	322.5
135°	597.1	593.4	583.5	566.2	541.4	510.4	472.6	432.4	393.3	357.4	327.6
137.5°	566.2	561.7	553.5	536.4	513.3	485.3	453.4	419.4	386.9	357.3	330.7
140°	543.8	538.9	530.2	516.6	495.0	468.9	441.0	411.9	383.4	356.8	333.3
142.5°	520.1	516.6	508.9	496.3	477.1	454.6	430.6	405.0	380.5	356.8	335.3
145°	487.5	484.4	478.2	467.7	452.2	434.8	416.3	395.2	375.3	355.5	336.4
147.5°	458.6	457.5	452.8	443.8	432.4	418.7	403.9	387.1	370.8	353.3	337.0
150°	442.3	441.6	437.9	429.9	419.9	408.8	396.4	382.1	367.3	351.8	337.0
152.5°	427.4	426.7	424.5	418.0	409.6	400.4	389.0	376.8	363.4	349.4	336.0
155°	408.2	408.2	406.3	401.4	395.2	387.8	378.5	368.5	357.4	345.6	334.5
157.5°	391.3	391.3	390.2	386.5	381.8	375.9	368.0	359.7	351.3	341.8	332.9
160°	381.0	381.0	380.3	376.6	372.9	368.0	361.2	354.3	346.9	338.8	331.4
162.5°	371.1	371.5	370.9	367.2	364.5	360.0	354.7	348.9	342.9	335.9	329.9
165°	356.2	356.8	357.4	354.9	352.4	349.4	345.0	341.3	336.4	331.4	327.1
167.5°	344.4	344.9	345.0	343.4	342.1	340.3	336.8	334.0	330.4	326.9	324.1
170°	337.0	337.0	337.5	337.0	335.7	333.9	331.4	329.5	326.5	323.9	322.1
172.5°	329.5	330.5	331.1	330.5	329.8	328.4	326.9	325.6	323.0	321.0	320.1
175°	320.8	322.1	323.4	322.1	322.1	322.1	320.8	320.3	319.0	317.7	317.7
177.5°	315.8	316.8	317.7	317.3	317.7	317.3	317.3	316.8	316.2	315.8	315.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1575.9	1568.8	1563.8	1559.7	1548.6	1542.0	1536.9	1529.9	1521.8	1513.1	1502.5
5°	1665.3	1643.9	1628.0	1604.0	1581.2	1562.3	1542.6	1525.0	1503.4	1480.0	1462.9
7.5°	1759.4	1727.4	1686.3	1650.8	1610.8	1576.0	1544.9	1513.1	1479.9	1447.8	1418.3
10°	1819.0	1777.9	1732.3	1678.6	1628.0	1583.1	1541.3	1500.9	1461.7	1422.4	1388.9
12.5°	1883.3	1832.1	1764.7	1701.9	1645.2	1585.2	1534.8	1485.2	1437.9	1396.7	1357.6
15°	1969.6	1895.5	1817.7	1733.6	1659.0	1588.8	1519.9	1457.2	1404.1	1349.7	1311.8
17.5°	2022.6	1931.0	1842.1	1754.1	1663.8	1575.3	1500.9	1428.7	1362.2	1308.1	1260.3
20°	2057.5	1966.4	1855.7	1767.8	1660.3	1569.2	1483.2	1402.9	1333.3	1275.7	1226.4
22.5°	2087.9	1982.6	1871.9	1756.2	1649.2	1552.5	1458.4	1377.5	1306.5	1245.9	1198.6
25°	2104.3	1983.5	1863.3	1748.2	1626.7	1512.3	1426.9	1332.1	1256.1	1192.2	1141.6
27.5°	2106.1	1976.9	1841.0	1713.0	1587.7	1481.1	1373.2	1288.5	1209.7	1142.2	1093.6
30°	2100.5	1965.8	1819.6	1681.2	1555.3	1439.6	1345.9	1253.6	1173.3	1106.2	1055.6
32.5°	2082.8	1942.5	1792.3	1645.8	1515.3	1402.1	1305.4	1217.7	1139.4	1073.3	1020.2
35°	2031.6	1893.0	1733.0	1580.6	1447.2	1332.7	1245.4	1156.2	1077.8	1015.2	963.9
37.5°	1951.5	1826.2	1663.6	1505.9	1374.8	1259.8	1173.3	1092.7	1022.0	958.4	905.9
40°	1881.7	1771.6	1608.4	1454.7	1313.0	1203.6	1122.7	1048.7	978.4	918.4	868.4
42.5°	1801.2	1705.3	1554.8	1391.9	1255.4	1145.4	1066.5	1000.1	933.9	878.4	828.5
45°	1657.7	1594.5	1452.9	1302.3	1160.0	1056.2	981.0	922.8	867.1	812.8	771.0
47.5°	1492.8	1461.4	1342.1	1199.2	1064.1	961.9	896.6	842.9	794.0	748.0	711.1
50°	1382.0	1366.8	1263.7	1125.8	996.8	900.6	834.9	788.7	746.9	706.5	671.7
52.5°	1272.7	1272.2	1179.2	1053.0	933.6	841.0	775.7	732.5	696.4	663.5	632.2
55°	1105.6	1123.3	1050.6	937.9	831.1	747.6	688.8	650.2	624.9	597.7	574.3
57.5°	952.1	981.5	921.5	822.4	733.2	656.2	605.1	576.1	549.1	532.7	515.6
60°	852.0	879.8	833.0	749.5	665.4	599.6	550.9	525.0	501.5	490.2	478.2
62.5°	762.9	787.7	753.0	675.7	602.6	539.4	498.3	473.3	457.6	445.1	437.2
65°	635.6	656.6	626.8	570.5	507.9	457.3	423.7	404.2	389.0	383.9	375.1
67.5°	513.8	532.8	516.7	468.9	418.7	380.4	354.2	335.3	326.4	321.9	315.6
70°	441.5	460.4	443.4	401.6	363.1	330.8	306.1	295.4	285.9	284.0	275.1
72.5°	380.2	393.2	376.0	343.4	310.5	283.2	264.1	252.9	248.0	244.5	239.7
75°	285.3	296.7	285.3	259.9	236.5	217.6	201.1	196.7	191.0	189.1	185.9
77.5°	201.9	211.8	203.0	187.2	169.8	155.1	146.2	140.5	139.3	136.0	137.5
80°	154.3	160.7	152.4	141.6	127.8	117.6	111.3	108.1	104.3	103.1	105.6
82.5°	110.8	113.6	109.4	102.2	91.8	85.2	81.0	77.3	76.5	76.8	76.8
85°	57.6	57.0	56.3	50.0	46.8	42.4	39.8	39.2	38.6	39.8	41.1
87.5°	21.0	21.5	20.2	18.2	16.6	14.9	14.0	13.3	14.0	14.9	15.5
90°	8.6	8.6	5.0	5.0	4.4	3.7	1.8	0.6	1.8	3.7	4.4
92.5°	125.1	77.1	45.6	32.7	23.7	16.1	10.3	7.1	10.3	16.1	23.7
95°	232.9	131.3	77.4	51.4	36.5	28.5	22.3	20.4	22.3	28.5	36.5
97.5°	209.4	125.5	84.0	62.2	49.4	42.0	36.7	36.7	36.7	42.0	49.4
100°	197.0	127.0	90.5	70.6	58.9	51.4	47.1	47.1	47.1	51.4	58.9
102.5°	193.5	131.9	98.9	80.0	68.8	61.8	58.0	57.0	58.0	61.8	68.8
105°	195.1	143.7	114.0	96.0	84.8	77.4	74.3	72.5	74.3	77.4	84.8
107.5°	204.3	157.5	130.2	112.5	101.8	93.9	90.8	89.6	90.8	93.9	101.8
110°	211.2	167.9	140.6	123.9	112.7	105.3	102.2	101.0	102.2	105.3	112.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	218.6	177.8	151.5	134.8	123.7	116.7	113.1	111.9	113.1	116.7	123.7
115°	230.4	193.3	168.5	151.8	140.0	133.8	129.4	127.6	129.4	133.8	140.0
117.5°	242.4	208.3	184.7	167.4	156.4	149.6	145.7	143.9	145.7	149.6	156.4
120°	250.9	218.6	195.1	177.8	167.2	160.4	156.1	154.9	156.1	160.4	167.2
122.5°	258.8	228.5	205.0	188.1	176.7	170.3	166.0	164.8	166.0	170.3	176.7
125°	270.7	242.2	219.9	202.6	190.8	183.9	180.2	177.8	180.2	183.9	190.8
127.5°	281.0	254.8	233.3	215.8	203.5	195.7	191.3	189.3	191.3	195.7	203.5
130°	287.4	263.2	242.2	224.3	212.5	203.2	198.2	195.7	198.2	203.2	212.5
132.5°	293.8	270.2	249.1	232.2	219.4	210.6	204.1	202.2	204.1	210.6	219.4
135°	302.3	280.0	259.5	243.4	230.4	219.9	213.7	211.2	213.7	219.9	230.4
137.5°	308.2	287.4	268.3	252.9	239.5	229.4	222.6	220.3	222.6	229.4	239.5
140°	312.2	292.4	273.8	258.9	245.9	235.4	228.5	226.7	228.5	235.4	245.9
142.5°	315.1	296.8	278.8	264.4	251.8	241.9	235.5	233.6	235.5	241.9	251.8
145°	318.4	301.7	285.6	272.0	260.2	251.5	245.3	243.4	245.3	251.5	260.2
147.5°	321.2	306.7	291.5	279.2	269.4	260.5	255.1	254.4	255.1	260.5	269.4
150°	322.7	309.1	295.5	283.7	274.4	267.0	262.1	261.4	262.1	267.0	274.4
152.5°	323.7	311.1	299.0	288.2	279.9	272.9	268.0	267.8	268.0	272.9	279.9
155°	324.6	314.0	303.5	294.2	287.4	281.2	277.5	276.9	277.5	281.2	287.4
157.5°	324.6	316.2	307.2	299.9	294.0	289.1	285.7	285.7	285.7	289.1	294.0
160°	324.6	317.1	309.7	302.9	297.9	293.6	291.1	291.1	291.1	293.6	297.9
162.5°	324.6	318.1	311.2	305.9	301.4	297.5	295.6	296.1	295.6	297.5	301.4
165°	323.4	318.4	312.8	309.1	306.0	302.9	301.7	301.7	301.7	302.9	306.0
167.5°	321.9	318.3	314.2	311.3	309.6	307.2	306.7	307.2	306.7	307.2	309.6
170°	320.8	317.7	314.7	312.8	311.6	309.7	309.1	309.7	309.1	309.7	311.6
172.5°	319.9	317.3	315.1	313.8	313.1	311.7	311.6	312.2	311.6	311.7	313.1
175°	318.4	316.6	315.3	315.3	314.7	314.0	314.0	314.7	314.0	314.0	314.7
177.5°	316.8	315.8	315.3	315.3	315.3	314.8	315.3	315.8	315.3	314.8	315.3
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332690-927

CATALOG NUMBER: SA4XXDIP-C1195D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1497.5	1492.9	1486.4	1477.3	1469.7	1461.6	1459.5	1456.5	1462.5	1457.5	1456.0
5°	1448.4	1435.1	1418.0	1398.4	1387.0	1370.6	1367.5	1361.1	1354.8	1354.2	1347.8
7.5°	1396.4	1376.9	1354.6	1334.5	1316.1	1298.1	1286.3	1283.8	1274.5	1269.0	1262.7
10°	1363.0	1338.9	1313.0	1294.1	1272.6	1253.6	1240.3	1232.7	1226.4	1219.4	1213.1
12.5°	1323.6	1298.0	1276.6	1256.1	1230.6	1216.2	1194.3	1181.1	1179.9	1180.0	1163.6
15°	1277.6	1252.4	1219.4	1190.3	1176.4	1148.6	1136.5	1121.4	1111.9	1102.4	1094.9
17.5°	1225.1	1193.7	1167.9	1134.6	1108.0	1085.8	1070.1	1061.0	1046.6	1033.2	1023.5
20°	1192.2	1158.7	1131.6	1096.1	1067.0	1039.8	1026.5	1013.9	1003.1	991.7	981.0
22.5°	1158.8	1123.8	1090.5	1056.1	1029.0	1000.4	987.5	970.3	960.1	953.8	943.0
25°	1106.2	1068.3	1030.3	997.4	969.6	944.3	927.2	913.9	902.5	897.5	890.6
27.5°	1049.0	1011.4	974.7	937.3	905.7	887.4	873.7	863.7	857.1	850.4	847.3
30°	1012.6	973.4	934.2	899.4	870.3	852.0	839.3	832.3	827.3	824.1	820.9
32.5°	975.7	937.0	895.7	864.0	837.9	821.6	812.0	805.0	802.5	801.4	800.3
35°	916.5	877.3	839.3	810.9	786.2	779.8	771.7	767.9	766.6	771.0	772.9
37.5°	859.2	822.8	787.8	760.3	744.1	734.8	732.1	732.1	736.7	740.6	745.2
40°	822.2	786.8	753.9	729.9	714.7	709.0	707.7	710.9	716.0	720.4	725.5
42.5°	786.3	751.4	721.5	699.0	688.4	683.2	684.0	687.1	694.2	699.7	707.3
45°	730.6	701.4	672.3	654.0	645.2	646.4	646.4	652.1	659.0	667.3	675.5
47.5°	678.0	648.7	624.8	609.3	604.8	603.6	607.2	614.7	624.6	634.8	646.3
50°	642.6	614.8	593.9	580.0	575.0	576.9	581.9	588.8	600.9	613.5	625.5
52.5°	606.7	581.4	562.1	549.1	545.6	549.0	554.1	565.1	575.6	589.2	603.8
55°	550.9	529.4	514.2	504.7	503.4	505.3	511.0	523.1	538.2	555.3	569.3
57.5°	495.4	477.4	463.5	456.9	457.6	459.3	468.7	483.0	499.2	517.4	535.4
60°	457.9	441.5	430.1	425.0	425.6	429.4	440.8	454.2	474.4	492.1	511.0
62.5°	422.5	408.1	397.2	392.7	391.7	400.1	411.0	424.8	445.0	464.8	485.2
65°	365.6	354.2	345.3	342.8	344.7	351.0	365.0	383.3	400.4	421.2	442.8
67.5°	309.9	300.6	294.5	295.6	297.9	307.3	318.9	334.7	354.1	375.7	397.0
70°	274.5	265.6	260.5	261.2	265.0	276.4	286.5	302.3	323.2	345.3	363.1
72.5°	238.1	232.3	227.7	230.4	234.2	242.0	254.6	270.5	288.8	309.4	328.1
75°	182.8	182.8	180.2	182.1	187.8	195.4	204.9	221.3	239.7	256.2	271.3
77.5°	135.6	134.2	135.9	138.2	141.4	150.4	161.3	173.0	186.9	203.3	215.8
80°	103.7	104.3	107.5	111.3	112.6	119.5	130.9	141.6	152.4	166.4	178.4
82.5°	78.0	78.6	80.2	85.0	86.3	93.7	101.1	111.9	121.6	130.9	140.9
85°	42.4	42.4	45.6	47.5	50.6	55.7	60.0	66.4	75.3	81.6	91.1
87.5°	17.2	17.2	20.0	21.0	22.7	25.5	26.4	32.1	34.2	36.9	41.4
90°	5.0	5.0	8.6	8.6	9.9	11.2	10.5	11.2	11.8	12.4	12.4
92.5°	32.7	45.6	77.1	125.1	172.0	196.5	163.7	121.7	91.6	72.9	60.4
95°	51.4	77.4	131.3	232.9	381.0	504.9	519.1	459.0	363.0	280.0	219.9
97.5°	62.2	84.0	125.5	209.4	356.6	531.7	652.1	678.1	642.5	581.9	517.2
100°	70.6	90.5	127.0	197.0	323.4	498.0	656.6	747.0	759.4	729.0	683.3
102.5°	80.0	98.9	131.9	193.5	301.0	455.9	619.4	743.5	805.0	813.8	794.7
105°	96.0	114.0	143.7	195.1	281.9	406.3	551.9	693.8	800.9	862.2	887.6
107.5°	112.5	130.2	157.5	204.3	278.4	378.6	497.4	623.1	737.1	823.5	878.7
110°	123.9	140.6	167.9	211.2	279.3	369.2	470.2	580.4	687.5	777.4	845.5



TEST NUMBER: P332690-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	134.8	151.5	177.8	218.6	282.3	364.7	454.8	549.2	644.0	728.8	796.9
115°	151.8	168.5	193.3	230.4	288.0	362.3	440.4	517.8	594.1	666.5	726.0
117.5°	167.4	184.7	208.3	242.4	294.1	361.7	434.0	502.5	565.5	622.5	673.0
120°	177.8	195.1	218.6	250.9	298.6	361.7	430.5	495.5	553.2	602.7	646.7
122.5°	188.1	205.0	228.5	258.8	303.0	361.2	426.5	489.6	545.2	590.3	628.8
125°	202.6	219.9	242.2	270.7	309.7	360.5	419.9	479.4	532.7	575.4	609.5
127.5°	215.8	233.3	254.8	281.0	315.1	359.2	411.1	467.1	517.9	560.5	592.9
130°	224.3	242.2	263.2	287.4	319.0	358.6	405.8	457.2	506.0	548.2	581.0
132.5°	232.2	249.1	270.2	293.8	322.5	358.1	400.8	446.7	492.7	533.9	566.6
135°	243.4	259.5	280.0	302.3	327.6	357.4	393.3	432.4	472.6	510.4	541.4
137.5°	252.9	268.3	287.4	308.2	330.7	357.3	386.9	419.4	453.4	485.3	513.3
140°	258.9	273.8	292.4	312.2	333.3	356.8	383.4	411.9	441.0	468.9	495.0
142.5°	264.4	278.8	296.8	315.1	335.3	356.8	380.5	405.0	430.6	454.6	477.1
145°	272.0	285.6	301.7	318.4	336.4	355.5	375.3	395.2	416.3	434.8	452.2
147.5°	279.2	291.5	306.7	321.2	337.0	353.3	370.8	387.1	403.9	418.7	432.4
150°	283.7	295.5	309.1	322.7	337.0	351.8	367.3	382.1	396.4	408.8	419.9
152.5°	288.2	299.0	311.1	323.7	336.0	349.4	363.4	376.8	389.0	400.4	409.6
155°	294.2	303.5	314.0	324.6	334.5	345.6	357.4	368.5	378.5	387.8	395.2
157.5°	299.9	307.2	316.2	324.6	332.9	341.8	351.3	359.7	368.0	375.9	381.8
160°	302.9	309.7	317.1	324.6	331.4	338.8	346.9	354.3	361.2	368.0	372.9
162.5°	305.9	311.2	318.1	324.6	329.9	335.9	342.9	348.9	354.7	360.0	364.5
165°	309.1	312.8	318.4	323.4	327.1	331.4	336.4	341.3	345.0	349.4	352.4
167.5°	311.3	314.2	318.3	321.9	324.1	326.9	330.4	334.0	336.8	340.3	342.1
170°	312.8	314.7	317.7	320.8	322.1	323.9	326.5	329.5	331.4	333.9	335.7
172.5°	313.8	315.1	317.3	319.9	320.1	321.0	323.0	325.6	326.9	328.4	329.8
175°	315.3	315.3	316.6	318.4	317.7	317.7	319.0	320.3	320.8	322.1	322.1
177.5°	315.3	315.3	315.8	316.8	315.8	315.8	316.2	316.8	317.3	317.3	317.7
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332690-927

CATALOG NUMBER: SA4XXDIP-C1195D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1455.0	1454.0	1450.4	1449.9	1450.4	1454.0	1455.0	1456.0	1457.5	1462.5	1456.5
5°	1344.0	1340.8	1338.9	1345.9	1338.9	1340.8	1344.0	1347.8	1354.2	1354.8	1361.1
7.5°	1260.4	1257.9	1252.4	1250.5	1252.4	1257.9	1260.4	1262.7	1269.0	1274.5	1283.8
10°	1206.8	1204.3	1199.2	1197.9	1199.2	1204.3	1206.8	1213.1	1219.4	1226.4	1232.7
12.5°	1155.2	1150.1	1149.1	1150.4	1149.1	1150.1	1155.2	1163.6	1180.0	1179.9	1181.1
15°	1086.6	1084.1	1077.1	1079.0	1077.1	1084.1	1086.6	1094.9	1102.4	1111.9	1121.4
17.5°	1019.1	1016.1	1007.6	1015.0	1007.6	1016.1	1019.1	1023.5	1033.2	1046.6	1061.0
20°	976.5	971.5	967.1	966.5	967.1	971.5	976.5	981.0	991.7	1003.1	1013.9
22.5°	936.0	931.5	931.1	927.0	931.1	931.5	936.0	943.0	953.8	960.1	970.3
25°	885.5	881.1	879.8	876.6	879.8	881.1	885.5	890.6	897.5	902.5	913.9
27.5°	846.7	844.5	842.2	843.2	842.2	844.5	846.7	847.3	850.4	857.1	863.7
30°	822.8	822.2	820.9	820.9	820.9	822.2	822.8	820.9	824.1	827.3	832.3
32.5°	803.1	803.0	803.7	803.7	803.7	803.0	803.1	800.3	801.4	802.5	805.0
35°	775.5	777.3	778.6	776.7	778.6	777.3	775.5	772.9	771.0	766.6	767.9
37.5°	750.4	752.3	754.1	756.2	754.1	752.3	750.4	745.2	740.6	736.7	732.1
40°	731.2	735.6	736.8	740.0	736.8	735.6	731.2	725.5	720.4	716.0	710.9
42.5°	713.0	717.9	721.1	721.8	721.1	717.9	713.0	707.3	699.7	694.2	687.1
45°	685.0	690.1	694.5	694.5	694.5	690.1	685.0	675.5	667.3	659.0	652.1
47.5°	656.0	663.4	667.8	668.9	667.8	663.4	656.0	646.3	634.8	624.6	614.7
50°	636.3	645.2	649.6	652.8	649.6	645.2	636.3	625.5	613.5	600.9	588.8
52.5°	617.0	625.9	631.8	633.5	631.8	625.9	617.0	603.8	589.2	575.6	565.1
55°	583.8	596.4	603.4	605.9	603.4	596.4	583.8	569.3	555.3	538.2	523.1
57.5°	552.4	564.0	572.1	574.0	572.1	564.0	552.4	535.4	517.4	499.2	483.0
60°	528.1	540.7	550.9	552.8	550.9	540.7	528.1	511.0	492.1	474.4	454.2
62.5°	503.4	516.5	525.6	530.5	525.6	516.5	503.4	485.2	464.8	445.0	424.8
65°	460.4	473.7	482.6	484.5	482.6	473.7	460.4	442.8	421.2	400.4	383.3
67.5°	413.7	426.9	432.8	436.4	432.8	426.9	413.7	397.0	375.7	354.1	334.7
70°	380.7	391.5	397.8	401.0	397.8	391.5	380.7	363.1	345.3	323.2	302.3
72.5°	343.3	354.6	361.9	362.5	361.9	354.6	343.3	328.1	309.4	288.8	270.5
75°	285.9	296.0	299.8	299.8	299.8	296.0	285.9	271.3	256.2	239.7	221.3
77.5°	226.3	231.5	236.3	237.3	236.3	231.5	226.3	215.8	203.3	186.9	173.0
80°	187.8	191.0	194.8	194.8	194.8	191.0	187.8	178.4	166.4	152.4	141.6
82.5°	148.4	151.1	154.9	154.3	154.9	151.1	148.4	140.9	130.9	121.6	111.9
85°	89.8	95.5	94.9	93.6	94.9	95.5	89.8	91.1	81.6	75.3	66.4
87.5°	43.1	43.7	45.1	46.1	45.1	43.7	43.1	41.4	36.9	34.2	32.1
90°	13.0	13.6	13.0	13.0	13.0	13.6	13.0	12.4	12.4	11.8	11.2
92.5°	53.2	49.8	47.7	47.7	47.7	49.8	53.2	60.4	72.9	91.6	121.7
95°	189.6	170.3	159.2	151.1	159.2	170.3	189.6	219.9	280.0	363.0	459.0
97.5°	472.8	435.5	416.8	404.0	416.8	435.5	472.8	517.2	581.9	642.5	678.1
100°	629.3	591.5	573.0	568.0	573.0	591.5	629.3	683.3	729.0	759.4	747.0
102.5°	761.7	734.3	714.7	710.7	714.7	734.3	761.7	794.7	813.8	805.0	743.5
105°	888.9	883.9	875.3	871.6	875.3	883.9	888.9	887.6	862.2	800.9	693.8
107.5°	909.3	923.4	929.6	931.2	929.6	923.4	909.3	878.7	823.5	737.1	623.1
110°	889.5	915.5	926.7	932.2	926.7	915.5	889.5	845.5	777.4	687.5	580.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	846.8	878.4	894.0	903.0	894.0	878.4	846.8	796.9	728.8	644.0	549.2
115°	774.9	812.1	831.9	836.9	831.9	812.1	774.9	726.0	666.5	594.1	517.8
117.5°	714.7	745.9	766.0	769.8	766.0	745.9	714.7	673.0	622.5	565.5	502.5
120°	682.0	709.2	725.3	732.1	725.3	709.2	682.0	646.7	602.7	553.2	495.5
122.5°	658.7	682.0	695.6	702.4	695.6	682.0	658.7	628.8	590.3	545.2	489.6
125°	634.3	652.3	664.0	667.7	664.0	652.3	634.3	609.5	575.4	532.7	479.4
127.5°	617.8	633.8	643.7	647.5	643.7	633.8	617.8	592.9	560.5	517.9	467.1
130°	606.4	621.9	631.8	635.6	631.8	621.9	606.4	581.0	548.2	506.0	457.2
132.5°	591.5	609.0	618.5	622.2	618.5	609.0	591.5	566.6	533.9	492.7	446.7
135°	566.2	583.5	593.4	597.1	593.4	583.5	566.2	541.4	510.4	472.6	432.4
137.5°	536.4	553.5	561.7	566.2	561.7	553.5	536.4	513.3	485.3	453.4	419.4
140°	516.6	530.2	538.9	543.8	538.9	530.2	516.6	495.0	468.9	441.0	411.9
142.5°	496.3	508.9	516.6	520.1	516.6	508.9	496.3	477.1	454.6	430.6	405.0
145°	467.7	478.2	484.4	487.5	484.4	478.2	467.7	452.2	434.8	416.3	395.2
147.5°	443.8	452.8	457.5	458.6	457.5	452.8	443.8	432.4	418.7	403.9	387.1
150°	429.9	437.9	441.6	442.3	441.6	437.9	429.9	419.9	408.8	396.4	382.1
152.5°	418.0	424.5	426.7	427.4	426.7	424.5	418.0	409.6	400.4	389.0	376.8
155°	401.4	406.3	408.2	408.2	408.2	406.3	401.4	395.2	387.8	378.5	368.5
157.5°	386.5	390.2	391.3	391.3	391.3	390.2	386.5	381.8	375.9	368.0	359.7
160°	376.6	380.3	381.0	381.0	381.0	380.3	376.6	372.9	368.0	361.2	354.3
162.5°	367.2	370.9	371.5	371.1	371.5	370.9	367.2	364.5	360.0	354.7	348.9
165°	354.9	357.4	356.8	356.2	356.8	357.4	354.9	352.4	349.4	345.0	341.3
167.5°	343.4	345.0	344.9	344.4	344.9	345.0	343.4	342.1	340.3	336.8	334.0
170°	337.0	337.5	337.0	337.0	337.0	337.5	337.0	335.7	333.9	331.4	329.5
172.5°	330.5	331.1	330.5	329.5	330.5	331.1	330.5	329.8	328.4	326.9	325.6
175°	322.1	323.4	322.1	320.8	322.1	323.4	322.1	322.1	322.1	320.8	320.3
177.5°	317.3	317.7	316.8	315.8	316.8	317.7	317.3	317.7	317.3	317.3	316.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332690-927

CATALOG NUMBER: SA4XXDIP-C1195D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1459.5	1461.6	1469.7	1477.3	1486.4	1492.9	1497.5	1502.5	1513.1	1521.8	1529.9
5°	1367.5	1370.6	1387.0	1398.4	1418.0	1435.1	1448.4	1462.9	1480.0	1503.4	1525.0
7.5°	1286.3	1298.1	1316.1	1334.5	1354.6	1376.9	1396.4	1418.3	1447.8	1479.9	1513.1
10°	1240.3	1253.6	1272.6	1294.1	1313.0	1338.9	1363.0	1388.9	1422.4	1461.7	1500.9
12.5°	1194.3	1216.2	1230.6	1256.1	1276.6	1298.0	1323.6	1357.6	1396.7	1437.9	1485.2
15°	1136.5	1148.6	1176.4	1190.3	1219.4	1252.4	1277.6	1311.8	1349.7	1404.1	1457.2
17.5°	1070.1	1085.8	1108.0	1134.6	1167.9	1193.7	1225.1	1260.3	1308.1	1362.2	1428.7
20°	1026.5	1039.8	1067.0	1096.1	1131.6	1158.7	1192.2	1226.4	1275.7	1333.3	1402.9
22.5°	987.5	1000.4	1029.0	1056.1	1090.5	1123.8	1158.8	1198.6	1245.9	1306.5	1377.5
25°	927.2	944.3	969.6	997.4	1030.3	1068.3	1106.2	1141.6	1192.2	1256.1	1332.1
27.5°	873.7	887.4	905.7	937.3	974.7	1011.4	1049.0	1093.6	1142.2	1209.7	1288.5
30°	839.3	852.0	870.3	899.4	934.2	973.4	1012.6	1055.6	1106.2	1173.3	1253.6
32.5°	812.0	821.6	837.9	864.0	895.7	937.0	975.7	1020.2	1073.3	1139.4	1217.7
35°	771.7	779.8	786.2	810.9	839.3	877.3	916.5	963.9	1015.2	1077.8	1156.2
37.5°	732.1	734.8	744.1	760.3	787.8	822.8	859.2	905.9	958.4	1022.0	1092.7
40°	707.7	709.0	714.7	729.9	753.9	786.8	822.2	868.4	918.4	978.4	1048.7
42.5°	684.0	683.2	688.4	699.0	721.5	751.4	786.3	828.5	878.4	933.9	1000.1
45°	646.4	646.4	645.2	654.0	672.3	701.4	730.6	771.0	812.8	867.1	922.8
47.5°	607.2	603.6	604.8	609.3	624.8	648.7	678.0	711.1	748.0	794.0	842.9
50°	581.9	576.9	575.0	580.0	593.9	614.8	642.6	671.7	706.5	746.9	788.7
52.5°	554.1	549.0	545.6	549.1	562.1	581.4	606.7	632.2	663.5	696.4	732.5
55°	511.0	505.3	503.4	504.7	514.2	529.4	550.9	574.3	597.7	624.9	650.2
57.5°	468.7	459.3	457.6	456.9	463.5	477.4	495.4	515.6	532.7	549.1	576.1
60°	440.8	429.4	425.6	425.0	430.1	441.5	457.9	478.2	490.2	501.5	525.0
62.5°	411.0	400.1	391.7	392.7	397.2	408.1	422.5	437.2	445.1	457.6	473.3
65°	365.0	351.0	344.7	342.8	345.3	354.2	365.6	375.1	383.9	389.0	404.2
67.5°	318.9	307.3	297.9	295.6	294.5	300.6	309.9	315.6	321.9	326.4	335.3
70°	286.5	276.4	265.0	261.2	260.5	265.6	274.5	275.1	284.0	285.9	295.4
72.5°	254.6	242.0	234.2	230.4	227.7	232.3	238.1	239.7	244.5	248.0	252.9
75°	204.9	195.4	187.8	182.1	180.2	182.8	182.8	185.9	189.1	191.0	196.7
77.5°	161.3	150.4	141.4	138.2	135.9	134.2	135.6	137.5	136.0	139.3	140.5
80°	130.9	119.5	112.6	111.3	107.5	104.3	103.7	105.6	103.1	104.3	108.1
82.5°	101.1	93.7	86.3	85.0	80.2	78.6	78.0	76.8	76.8	76.5	77.3
85°	60.0	55.7	50.6	47.5	45.6	42.4	42.4	41.1	39.8	38.6	39.2
87.5°	26.4	25.5	22.7	21.0	20.0	17.2	17.2	15.5	14.9	14.0	13.3
90°	10.5	11.2	9.9	8.6	8.6	5.0	5.0	4.4	3.7	1.8	0.6
92.5°	163.7	196.5	172.0	125.1	77.1	45.6	32.7	23.7	16.1	10.3	7.1
95°	519.1	504.9	381.0	232.9	131.3	77.4	51.4	36.5	28.5	22.3	20.4
97.5°	652.1	531.7	356.6	209.4	125.5	84.0	62.2	49.4	42.0	36.7	36.7
100°	656.6	498.0	323.4	197.0	127.0	90.5	70.6	58.9	51.4	47.1	47.1
102.5°	619.4	455.9	301.0	193.5	131.9	98.9	80.0	68.8	61.8	58.0	57.0
105°	551.9	406.3	281.9	195.1	143.7	114.0	96.0	84.8	77.4	74.3	72.5
107.5°	497.4	378.6	278.4	204.3	157.5	130.2	112.5	101.8	93.9	90.8	89.6
110°	470.2	369.2	279.3	211.2	167.9	140.6	123.9	112.7	105.3	102.2	101.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	454.8	364.7	282.3	218.6	177.8	151.5	134.8	123.7	116.7	113.1	111.9
115°	440.4	362.3	288.0	230.4	193.3	168.5	151.8	140.0	133.8	129.4	127.6
117.5°	434.0	361.7	294.1	242.4	208.3	184.7	167.4	156.4	149.6	145.7	143.9
120°	430.5	361.7	298.6	250.9	218.6	195.1	177.8	167.2	160.4	156.1	154.9
122.5°	426.5	361.2	303.0	258.8	228.5	205.0	188.1	176.7	170.3	166.0	164.8
125°	419.9	360.5	309.7	270.7	242.2	219.9	202.6	190.8	183.9	180.2	177.8
127.5°	411.1	359.2	315.1	281.0	254.8	233.3	215.8	203.5	195.7	191.3	189.3
130°	405.8	358.6	319.0	287.4	263.2	242.2	224.3	212.5	203.2	198.2	195.7
132.5°	400.8	358.1	322.5	293.8	270.2	249.1	232.2	219.4	210.6	204.1	202.2
135°	393.3	357.4	327.6	302.3	280.0	259.5	243.4	230.4	219.9	213.7	211.2
137.5°	386.9	357.3	330.7	308.2	287.4	268.3	252.9	239.5	229.4	222.6	220.3
140°	383.4	356.8	333.3	312.2	292.4	273.8	258.9	245.9	235.4	228.5	226.7
142.5°	380.5	356.8	335.3	315.1	296.8	278.8	264.4	251.8	241.9	235.5	233.6
145°	375.3	355.5	336.4	318.4	301.7	285.6	272.0	260.2	251.5	245.3	243.4
147.5°	370.8	353.3	337.0	321.2	306.7	291.5	279.2	269.4	260.5	255.1	254.4
150°	367.3	351.8	337.0	322.7	309.1	295.5	283.7	274.4	267.0	262.1	261.4
152.5°	363.4	349.4	336.0	323.7	311.1	299.0	288.2	279.9	272.9	268.0	267.8
155°	357.4	345.6	334.5	324.6	314.0	303.5	294.2	287.4	281.2	277.5	276.9
157.5°	351.3	341.8	332.9	324.6	316.2	307.2	299.9	294.0	289.1	285.7	285.7
160°	346.9	338.8	331.4	324.6	317.1	309.7	302.9	297.9	293.6	291.1	291.1
162.5°	342.9	335.9	329.9	324.6	318.1	311.2	305.9	301.4	297.5	295.6	296.1
165°	336.4	331.4	327.1	323.4	318.4	312.8	309.1	306.0	302.9	301.7	301.7
167.5°	330.4	326.9	324.1	321.9	318.3	314.2	311.3	309.6	307.2	306.7	307.2
170°	326.5	323.9	322.1	320.8	317.7	314.7	312.8	311.6	309.7	309.1	309.7
172.5°	323.0	321.0	320.1	319.9	317.3	315.1	313.8	313.1	311.7	311.6	312.2
175°	319.0	317.7	317.7	318.4	316.6	315.3	315.3	314.7	314.0	314.0	314.7
177.5°	316.2	315.8	315.8	316.8	315.8	315.3	315.3	315.3	314.8	315.3	315.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332690-927

CATALOG NUMBER: SA4XXDIP-C1195D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1536.9	1542.0	1548.6	1559.7	1563.8	1568.8	1575.9	1575.4	1577.4	1585.0	1601.2
5°	1542.6	1562.3	1581.2	1604.0	1628.0	1643.9	1665.3	1678.6	1691.9	1709.0	1738.0
7.5°	1544.9	1576.0	1610.8	1650.8	1686.3	1727.4	1759.4	1789.5	1816.6	1852.7	1887.4
10°	1541.3	1583.1	1628.0	1678.6	1732.3	1777.9	1819.0	1865.8	1905.7	1949.3	1988.5
12.5°	1534.8	1585.2	1645.2	1701.9	1764.7	1832.1	1883.3	1930.6	1983.6	2033.8	2094.3
15°	1519.9	1588.8	1659.0	1733.6	1817.7	1895.5	1969.6	2030.9	2087.9	2163.1	2242.2
17.5°	1500.9	1575.3	1663.8	1754.1	1842.1	1931.0	2022.6	2114.8	2186.7	2280.1	2342.0
20°	1483.2	1569.2	1660.3	1767.8	1855.7	1966.4	2057.5	2146.7	2245.4	2338.3	2412.3
22.5°	1458.4	1552.5	1649.2	1756.2	1871.9	1982.6	2087.9	2184.6	2283.3	2384.4	2474.1
25°	1426.9	1512.3	1626.7	1748.2	1863.3	1983.5	2104.3	2225.7	2331.9	2438.9	2522.4
27.5°	1373.2	1481.1	1587.7	1713.0	1841.0	1976.9	2106.1	2233.2	2344.5	2432.4	2484.1
30°	1345.9	1439.6	1555.3	1681.2	1819.6	1965.8	2100.5	2225.1	2328.9	2399.0	2419.9
32.5°	1305.4	1402.1	1515.3	1645.8	1792.3	1942.5	2082.8	2200.3	2286.8	2323.6	2298.4
35°	1245.4	1332.7	1447.2	1580.6	1733.0	1893.0	2031.6	2130.8	2175.1	2140.3	2053.7
37.5°	1173.3	1259.8	1374.8	1505.9	1663.6	1826.2	1951.5	2022.9	2008.3	1921.8	1792.6
40°	1122.7	1203.6	1313.0	1454.7	1608.4	1771.6	1881.7	1920.2	1879.8	1755.8	1618.5
42.5°	1066.5	1145.4	1255.4	1391.9	1554.8	1705.3	1801.2	1804.4	1736.5	1588.3	1450.6
45°	981.0	1056.2	1160.0	1302.3	1452.9	1594.5	1657.7	1626.7	1501.5	1358.6	1220.0
47.5°	896.6	961.9	1064.1	1199.2	1342.1	1461.4	1492.8	1437.0	1303.5	1164.8	1036.4
50°	834.9	900.6	996.8	1125.8	1263.7	1366.8	1382.0	1308.0	1177.0	1037.3	936.7
52.5°	775.7	841.0	933.6	1053.0	1179.2	1272.2	1272.7	1187.1	1056.6	932.0	838.5
55°	688.8	747.6	831.1	937.9	1050.6	1123.3	1105.6	1017.0	903.8	795.7	714.1
57.5°	605.1	656.2	733.2	822.4	921.5	981.5	952.1	866.9	765.8	674.1	612.3
60°	550.9	599.6	665.4	749.5	833.0	879.8	852.0	774.8	681.8	607.8	554.1
62.5°	498.3	539.4	602.6	675.7	753.0	787.7	762.9	686.7	606.4	539.5	495.9
65°	423.7	457.3	507.9	570.5	626.8	656.6	635.6	564.8	503.4	455.4	420.6
67.5°	354.2	380.4	418.7	468.9	516.7	532.8	513.8	464.5	412.5	374.1	349.5
70°	306.1	330.8	363.1	401.6	443.4	460.4	441.5	402.3	359.9	324.5	300.4
72.5°	264.1	283.2	310.5	343.4	376.0	393.2	380.2	342.5	306.7	280.4	259.9
75°	201.1	217.6	236.5	259.9	285.3	296.7	285.3	259.3	234.6	215.1	200.5
77.5°	146.2	155.1	169.8	187.2	203.0	211.8	201.9	184.3	169.3	155.8	148.6
80°	111.3	117.6	127.8	141.6	152.4	160.7	154.3	139.7	127.8	118.9	115.7
82.5°	81.0	85.2	91.8	102.2	109.4	113.6	110.8	100.3	95.4	87.5	84.4
85°	39.8	42.4	46.8	50.0	56.3	57.0	57.6	53.2	48.7	46.8	44.3
87.5°	14.0	14.9	16.6	18.2	20.2	21.5	21.0	21.2	19.4	18.8	16.9
90°	1.8	3.7	4.4	5.0	5.0	8.6	8.6	9.9	11.2	10.5	11.2
92.5°	10.3	16.1	23.7	32.7	45.6	77.1	125.1	172.0	196.5	163.7	121.7
95°	22.3	28.5	36.5	51.4	77.4	131.3	232.9	381.0	504.9	519.1	459.0
97.5°	36.7	42.0	49.4	62.2	84.0	125.5	209.4	356.6	531.7	652.1	678.1
100°	47.1	51.4	58.9	70.6	90.5	127.0	197.0	323.4	498.0	656.6	747.0
102.5°	58.0	61.8	68.8	80.0	98.9	131.9	193.5	301.0	455.9	619.4	743.5
105°	74.3	77.4	84.8	96.0	114.0	143.7	195.1	281.9	406.3	551.9	693.8
107.5°	90.8	93.9	101.8	112.5	130.2	157.5	204.3	278.4	378.6	497.4	623.1
110°	102.2	105.3	112.7	123.9	140.6	167.9	211.2	279.3	369.2	470.2	580.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	113.1	116.7	123.7	134.8	151.5	177.8	218.6	282.3	364.7	454.8	549.2
115°	129.4	133.8	140.0	151.8	168.5	193.3	230.4	288.0	362.3	440.4	517.8
117.5°	145.7	149.6	156.4	167.4	184.7	208.3	242.4	294.1	361.7	434.0	502.5
120°	156.1	160.4	167.2	177.8	195.1	218.6	250.9	298.6	361.7	430.5	495.5
122.5°	166.0	170.3	176.7	188.1	205.0	228.5	258.8	303.0	361.2	426.5	489.6
125°	180.2	183.9	190.8	202.6	219.9	242.2	270.7	309.7	360.5	419.9	479.4
127.5°	191.3	195.7	203.5	215.8	233.3	254.8	281.0	315.1	359.2	411.1	467.1
130°	198.2	203.2	212.5	224.3	242.2	263.2	287.4	319.0	358.6	405.8	457.2
132.5°	204.1	210.6	219.4	232.2	249.1	270.2	293.8	322.5	358.1	400.8	446.7
135°	213.7	219.9	230.4	243.4	259.5	280.0	302.3	327.6	357.4	393.3	432.4
137.5°	222.6	229.4	239.5	252.9	268.3	287.4	308.2	330.7	357.3	386.9	419.4
140°	228.5	235.4	245.9	258.9	273.8	292.4	312.2	333.3	356.8	383.4	411.9
142.5°	235.5	241.9	251.8	264.4	278.8	296.8	315.1	335.3	356.8	380.5	405.0
145°	245.3	251.5	260.2	272.0	285.6	301.7	318.4	336.4	355.5	375.3	395.2
147.5°	255.1	260.5	269.4	279.2	291.5	306.7	321.2	337.0	353.3	370.8	387.1
150°	262.1	267.0	274.4	283.7	295.5	309.1	322.7	337.0	351.8	367.3	382.1
152.5°	268.0	272.9	279.9	288.2	299.0	311.1	323.7	336.0	349.4	363.4	376.8
155°	277.5	281.2	287.4	294.2	303.5	314.0	324.6	334.5	345.6	357.4	368.5
157.5°	285.7	289.1	294.0	299.9	307.2	316.2	324.6	332.9	341.8	351.3	359.7
160°	291.1	293.6	297.9	302.9	309.7	317.1	324.6	331.4	338.8	346.9	354.3
162.5°	295.6	297.5	301.4	305.9	311.2	318.1	324.6	329.9	335.9	342.9	348.9
165°	301.7	302.9	306.0	309.1	312.8	318.4	323.4	327.1	331.4	336.4	341.3
167.5°	306.7	307.2	309.6	311.3	314.2	318.3	321.9	324.1	326.9	330.4	334.0
170°	309.1	309.7	311.6	312.8	314.7	317.7	320.8	322.1	323.9	326.5	329.5
172.5°	311.6	311.7	313.1	313.8	315.1	317.3	319.9	320.1	321.0	323.0	325.6
175°	314.0	314.0	314.7	315.3	315.3	316.6	318.4	317.7	317.7	319.0	320.3
177.5°	315.3	314.8	315.3	315.3	315.3	315.8	316.8	315.8	315.8	316.2	316.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1609.3	1610.3	1614.9	1618.4	1619.5	1624.4	1625.0
5°	1750.7	1761.5	1782.3	1784.2	1787.4	1803.9	1791.2
7.5°	1916.4	1943.8	1962.0	1978.1	1983.9	1991.1	1989.6
10°	2022.7	2063.2	2083.4	2115.7	2116.9	2125.2	2120.1
12.5°	2129.5	2176.5	2213.4	2219.4	2246.5	2250.7	2257.7
15°	2280.8	2330.7	2381.9	2400.3	2437.6	2446.5	2460.4
17.5°	2423.0	2474.1	2510.0	2557.4	2572.7	2593.2	2579.3
20°	2500.8	2556.5	2602.1	2639.4	2655.2	2666.6	2665.3
22.5°	2547.9	2604.1	2641.0	2669.3	2684.0	2688.8	2688.6
25°	2577.4	2609.6	2621.0	2631.8	2615.3	2609.6	2612.1
27.5°	2495.5	2487.1	2457.3	2418.4	2377.9	2345.7	2328.3
30°	2382.6	2333.2	2288.4	2209.9	2169.5	2145.4	2123.9
32.5°	2222.7	2144.5	2058.1	1986.2	1940.2	1904.6	1899.3
35°	1948.7	1831.1	1725.5	1637.5	1592.0	1553.4	1544.5
37.5°	1656.8	1534.5	1439.4	1362.0	1313.0	1285.9	1260.4
40°	1462.9	1358.0	1264.3	1198.6	1161.3	1141.6	1125.8
42.5°	1313.7	1217.8	1124.7	1074.6	1040.8	1028.8	1019.5
45°	1107.5	1018.3	953.8	915.8	896.2	876.0	866.5
47.5°	942.4	869.8	827.3	795.0	774.0	762.0	756.0
50°	848.8	789.3	751.4	726.7	707.7	698.2	693.2
52.5°	765.8	717.0	685.1	665.5	652.6	645.6	643.6
55°	659.7	622.3	602.1	585.0	575.6	569.3	566.7
57.5°	573.4	544.7	528.2	514.2	510.6	505.3	503.4
60°	516.7	494.6	480.7	471.2	468.0	461.7	463.0
62.5°	466.7	448.5	436.7	431.3	427.1	421.8	423.5
65°	394.7	381.4	375.1	370.0	365.0	361.8	364.3
67.5°	331.1	322.1	313.5	310.5	308.0	307.5	304.8
70°	289.7	282.1	274.5	272.6	272.6	270.1	269.4
72.5°	249.7	244.2	239.1	237.7	235.7	236.7	234.0
75°	192.9	188.5	186.6	184.7	184.0	184.0	182.1
77.5°	142.6	139.3	136.3	136.3	134.0	133.1	132.8
80°	108.1	106.9	104.3	104.3	103.1	103.7	102.4
82.5°	81.4	79.5	79.1	78.0	76.3	76.4	75.2
85°	43.6	41.7	41.1	39.2	37.9	39.2	37.9
87.5°	17.5	17.2	16.6	15.8	15.4	15.3	13.7
90°	11.8	12.4	12.4	13.0	13.6	13.0	13.0
92.5°	91.6	72.9	60.4	53.2	49.8	47.7	47.7
95°	363.0	280.0	219.9	189.6	170.3	159.2	151.1
97.5°	642.5	581.9	517.2	472.8	435.5	416.8	404.0
100°	759.4	729.0	683.3	629.3	591.5	573.0	568.0
102.5°	805.0	813.8	794.7	761.7	734.3	714.7	710.7
105°	800.9	862.2	887.6	888.9	883.9	875.3	871.6
107.5°	737.1	823.5	878.7	909.3	923.4	929.6	931.2
110°	687.5	777.4	845.5	889.5	915.5	926.7	932.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	644.0	728.8	796.9	846.8	878.4	894.0	903.0
115°	594.1	666.5	726.0	774.9	812.1	831.9	836.9
117.5°	565.5	622.5	673.0	714.7	745.9	766.0	769.8
120°	553.2	602.7	646.7	682.0	709.2	725.3	732.1
122.5°	545.2	590.3	628.8	658.7	682.0	695.6	702.4
125°	532.7	575.4	609.5	634.3	652.3	664.0	667.7
127.5°	517.9	560.5	592.9	617.8	633.8	643.7	647.5
130°	506.0	548.2	581.0	606.4	621.9	631.8	635.6
132.5°	492.7	533.9	566.6	591.5	609.0	618.5	622.2
135°	472.6	510.4	541.4	566.2	583.5	593.4	597.1
137.5°	453.4	485.3	513.3	536.4	553.5	561.7	566.2
140°	441.0	468.9	495.0	516.6	530.2	538.9	543.8
142.5°	430.6	454.6	477.1	496.3	508.9	516.6	520.1
145°	416.3	434.8	452.2	467.7	478.2	484.4	487.5
147.5°	403.9	418.7	432.4	443.8	452.8	457.5	458.6
150°	396.4	408.8	419.9	429.9	437.9	441.6	442.3
152.5°	389.0	400.4	409.6	418.0	424.5	426.7	427.4
155°	378.5	387.8	395.2	401.4	406.3	408.2	408.2
157.5°	368.0	375.9	381.8	386.5	390.2	391.3	391.3
160°	361.2	368.0	372.9	376.6	380.3	381.0	381.0
162.5°	354.7	360.0	364.5	367.2	370.9	371.5	371.1
165°	345.0	349.4	352.4	354.9	357.4	356.8	356.2
167.5°	336.8	340.3	342.1	343.4	345.0	344.9	344.4
170°	331.4	333.9	335.7	337.0	337.5	337.0	337.0
172.5°	326.9	328.4	329.8	330.5	331.1	330.5	329.5
175°	320.8	322.1	322.1	322.1	323.4	322.1	320.8
177.5°	317.3	317.3	317.7	317.3	317.7	316.8	315.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3

(END OF REPORT)