

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: P332708-930

Luminaire Tested: **SA4XXDIP-C1195D1205U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332708-930
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-C1195D1205U930-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

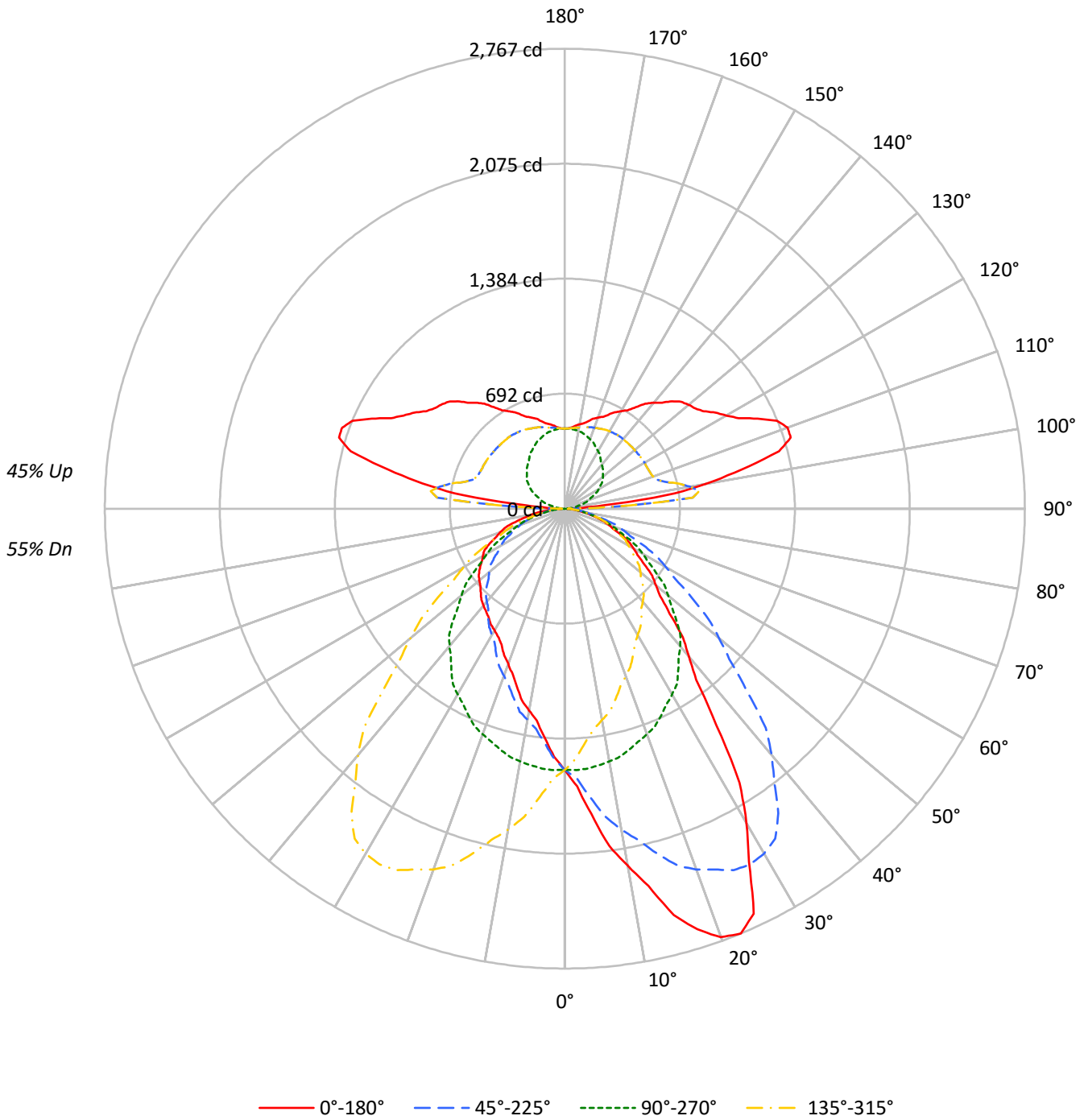
Lumens per Lamp: N/A
Luminaire Lumens: 7845.2 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.7
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	68	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	33	29	32	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	36	30	26	31	26	23	27	23	20	18
9	52	39	32	27	48	37	30	26	33	27	23	28	24	21	25	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12686	12686	12686	12686
5°	14939	12719	11225	12719
10°	17887	12663	10107	12663
15°	21163	12534	9281	12534
20°	23566	12404	8546	12404
25°	23947	12211	8036	12211
30°	20377	12027	7876	12027
35°	15666	11727	7877	11727
40°	12211	11374	8026	11374
45°	10182	10843	8161	10843
50°	8961	10194	8437	10194
55°	8210	9419	8777	9419
60°	7694	8724	9185	8724
65°	7163	7947	9524	7947
70°	6545	7176	9741	7176
75°	5845	6313	9623	6313
80°	4900	5174	9321	5174
85°	3622	3742	8929	3742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	2.0
10°-20°	471.9	6.0
20°-30°	748.2	9.5
30°-40°	832.7	10.6
40°-50°	758.0	9.7
50°-60°	619.4	7.9
60°-70°	442.2	5.6
70°-80°	243.5	3.1
80°-90°	69.1	0.9
90°-100°	348.3	4.4
100°-110°	724.9	9.2
110°-120°	649.3	8.3
120°-130°	546.2	7.0
130°-140°	455.4	5.8
140°-150°	347.9	4.4
150°-160°	244.5	3.1
160°-170°	143.8	1.8
170°-180°	46.8	0.6
0°-30°	1373.2	17.5
0°-40°	2205.9	28.1
0°-60°	3583.3	45.7
0°-90°	4338.1	55.3
90°-120°	1722.5	22.0
90°-150°	3071.9	39.2
90°-180°	3507.0	44.7
0°-180°	7845.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1571	1571	1571	1571	1571	
5°	1844	1570	1385	1570	1844	187
15°	2532	1500	1110	1500	2532	715
25°	2688	1371	902	1371	2688	1185
35°	1590	1190	799	1190	1590	1009
45°	892	950	715	950	892	703
55°	583	669	624	669	583	527
65°	375	416	499	416	375	371
75°	187	202	308	202	187	199
85°	39	40	96	40	39	48
90°	20	1	20	1	20	18
95°	231	31	231	31	231	359
105°	1333	111	1333	111	1333	1318
115°	1280	195	1280	195	1280	1271
125°	1021	272	1021	272	1021	928
135°	913	323	913	323	913	705
145°	746	372	746	372	746	473
155°	624	424	624	424	624	291
165°	545	461	545	461	545	156
175°	491	481	491	481	491	48
180°	482	482	482	482	482	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1672.4	1671.9	1666.7	1665.7	1662.0	1657.3	1656.3	1648.0	1631.3	1623.4	1621.4
5°	1843.5	1856.5	1839.6	1836.3	1834.3	1812.9	1801.8	1788.8	1758.8	1741.3	1727.6
7.5°	2047.6	2049.2	2041.8	2035.8	2019.3	2000.5	1972.4	1942.5	1906.7	1869.6	1841.7
10°	2182.0	2187.2	2178.7	2177.4	2144.2	2123.4	2081.7	2046.6	2006.2	1961.3	1920.3
12.5°	2323.6	2316.3	2312.0	2284.1	2278.0	2240.0	2191.6	2155.4	2093.2	2041.5	1987.0
15°	2532.2	2517.9	2508.8	2470.4	2451.4	2398.7	2347.3	2307.6	2226.3	2148.8	2090.2
17.5°	2654.5	2668.9	2647.8	2632.0	2583.2	2546.3	2493.7	2410.4	2346.7	2250.5	2176.5
20°	2743.1	2744.4	2732.6	2716.4	2678.0	2631.1	2573.8	2482.7	2406.5	2310.9	2209.3
22.5°	2767.0	2767.3	2762.3	2747.2	2718.0	2680.1	2622.2	2546.3	2454.0	2349.9	2248.4
25°	2688.4	2685.8	2691.6	2708.6	2697.5	2685.8	2652.6	2596.0	2510.1	2400.0	2290.7
27.5°	2396.2	2414.2	2447.3	2488.9	2529.1	2559.6	2568.3	2556.6	2503.4	2413.0	2298.3
30°	2185.9	2208.0	2232.8	2274.4	2355.2	2401.3	2452.1	2490.5	2469.1	2396.8	2290.0
32.5°	1954.7	1960.1	1996.8	2044.2	2118.1	2207.1	2287.6	2365.5	2391.4	2353.5	2264.5
35°	1589.6	1598.7	1638.4	1685.3	1775.8	1884.5	2005.6	2113.6	2202.8	2238.6	2193.0
37.5°	1297.2	1323.4	1351.4	1401.7	1481.4	1579.3	1705.1	1844.9	1977.8	2066.9	2081.9
40°	1158.7	1174.9	1195.1	1233.5	1301.2	1397.6	1505.6	1665.7	1807.0	1934.6	1976.3
42.5°	1049.3	1058.8	1071.2	1106.0	1157.5	1253.4	1352.0	1492.9	1634.7	1787.2	1857.0
45°	891.8	901.6	922.3	942.6	981.6	1048.0	1139.8	1255.6	1398.2	1545.3	1674.2
47.5°	778.0	784.2	796.6	818.2	851.4	895.2	969.9	1066.7	1198.8	1341.6	1479.0
50°	713.5	718.6	728.4	748.0	773.3	812.4	873.6	964.0	1067.6	1211.4	1346.1
52.5°	662.4	664.5	671.6	684.9	705.1	737.9	788.1	863.0	959.2	1087.4	1221.7
55°	583.3	585.9	592.4	602.1	619.7	640.5	678.9	734.9	818.9	930.2	1046.7
57.5°	518.1	520.0	525.5	529.2	543.6	560.6	590.1	630.1	693.7	788.1	892.2
60°	476.5	475.2	481.7	484.9	494.7	509.1	531.8	570.2	625.6	701.7	797.4
62.5°	435.9	434.1	439.5	443.8	449.4	461.6	480.3	510.4	555.2	624.1	706.8
65°	375.0	372.3	375.6	380.8	386.0	392.5	406.2	432.8	468.7	518.1	581.3
67.5°	313.7	316.5	317.0	319.6	322.6	331.5	340.8	359.7	385.0	424.5	478.1
70°	277.3	277.9	280.5	280.5	282.5	290.3	298.2	309.2	333.9	370.4	414.0
72.5°	240.8	243.6	242.6	244.6	246.1	251.3	257.0	267.5	288.6	315.7	352.5
75°	187.4	189.4	189.4	190.0	192.0	194.0	198.5	206.4	221.4	241.5	266.8
77.5°	136.7	137.0	137.9	140.2	140.2	143.3	146.8	153.0	160.4	174.2	189.7
80°	105.4	106.7	106.1	107.4	107.4	110.0	111.3	119.1	122.4	131.5	143.8
82.5°	77.4	78.6	78.5	80.3	81.4	81.9	83.7	86.8	90.1	98.2	103.2
85°	39.1	40.4	39.1	40.4	42.3	43.0	44.9	45.6	48.2	50.1	54.7
87.5°	15.4	17.0	17.2	17.5	18.3	18.9	19.2	18.5	20.4	21.1	22.8
90°	19.9	19.9	20.9	19.9	18.9	18.9	18.0	17.0	16.1	17.0	15.2
92.5°	73.0	73.0	76.1	81.3	92.5	111.5	140.0	186.1	250.3	300.5	263.0
95°	231.1	243.4	260.6	289.9	336.3	428.2	555.1	702.0	793.9	772.1	582.6
97.5°	617.9	637.6	666.0	723.0	791.1	890.0	982.6	1037.2	997.4	813.3	545.3
100°	868.8	876.4	904.7	962.5	1045.0	1115.1	1161.5	1142.6	1004.2	761.7	494.6
102.5°	1087.0	1093.1	1123.0	1164.9	1215.4	1244.6	1231.2	1137.3	947.4	697.2	460.4
105°	1332.9	1338.6	1351.9	1359.5	1357.6	1318.7	1225.0	1061.0	844.1	621.5	431.0
107.5°	1424.3	1421.8	1412.3	1390.7	1343.9	1259.5	1127.4	952.8	760.8	579.0	425.7
110°	1425.8	1417.3	1400.2	1360.4	1293.1	1189.0	1051.6	887.7	719.1	564.7	427.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1381.1	1367.3	1343.4	1295.3	1218.9	1114.7	984.9	839.9	695.5	557.8	431.8
115°	1279.9	1272.4	1242.0	1185.2	1110.4	1019.4	908.6	792.0	673.6	554.2	440.5
117.5°	1177.4	1171.5	1140.8	1093.1	1029.2	952.1	865.0	768.5	663.7	553.3	449.8
120°	1119.8	1109.4	1084.8	1043.1	989.0	921.8	846.0	757.9	658.4	553.3	456.6
122.5°	1074.3	1063.9	1043.1	1007.5	961.8	902.9	833.9	748.8	652.4	552.5	463.5
125°	1021.2	1015.6	997.6	970.1	932.2	880.1	814.7	733.3	642.3	551.4	473.7
127.5°	990.2	984.6	969.4	944.9	906.9	857.4	792.2	714.3	628.8	549.3	481.8
130°	972.0	966.3	951.1	927.5	888.7	838.5	774.0	699.2	620.5	548.5	487.9
132.5°	951.5	945.8	931.5	904.7	866.7	816.4	753.6	683.2	612.9	547.8	493.2
135°	913.3	907.6	892.4	865.9	828.0	780.6	722.8	661.3	601.6	546.7	501.2
137.5°	865.9	859.1	846.6	820.4	785.0	742.2	693.5	641.4	591.7	546.4	505.9
140°	831.8	824.2	811.0	790.1	756.9	717.1	674.5	630.0	586.4	545.7	509.7
142.5°	795.4	790.1	778.4	759.0	729.7	695.2	658.6	619.4	581.9	545.7	512.7
145°	745.6	740.9	731.4	715.3	691.6	665.0	636.7	604.5	574.1	543.8	514.5
147.5°	701.4	699.8	692.5	678.7	661.3	640.4	617.7	592.2	567.1	540.4	515.4
150°	676.5	675.5	669.8	657.5	642.3	625.3	606.3	584.6	561.8	538.1	515.4
152.5°	653.7	652.7	649.3	639.3	626.4	612.4	594.9	576.2	555.7	534.3	513.9
155°	624.4	624.4	621.5	613.9	604.5	593.0	578.9	563.7	546.7	528.6	511.6
157.5°	598.6	598.6	596.9	591.2	584.0	574.9	563.0	550.2	537.4	522.8	509.2
160°	582.6	582.6	581.7	576.0	570.3	562.7	552.3	541.9	530.5	518.2	506.9
162.5°	567.4	568.3	567.3	561.6	557.4	550.7	542.5	533.5	524.5	513.6	504.6
165°	544.8	545.7	546.7	542.8	539.1	534.3	527.7	522.0	514.5	506.9	500.2
167.5°	526.8	527.5	527.7	525.2	523.3	520.5	515.2	510.9	505.3	500.0	495.7
170°	515.4	515.4	516.3	515.4	513.5	510.6	506.9	504.0	499.3	495.5	492.6
172.5°	504.0	505.5	506.5	505.5	504.3	502.3	500.0	497.9	494.0	490.9	489.6
175°	490.7	492.6	494.6	492.6	492.6	492.6	490.7	489.8	487.9	486.0	486.0
177.5°	483.0	484.5	486.0	485.3	486.0	485.3	485.3	484.5	483.7	483.0	483.0
180°	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1621.9	1614.6	1609.4	1605.2	1593.7	1587.0	1581.8	1574.5	1566.2	1557.3	1546.4
5°	1713.9	1691.8	1675.5	1650.8	1627.3	1607.9	1587.6	1569.5	1547.3	1523.2	1505.6
7.5°	1810.7	1777.8	1735.5	1699.0	1657.8	1622.0	1590.0	1557.2	1523.1	1490.0	1459.7
10°	1872.1	1829.8	1782.9	1727.6	1675.5	1629.3	1586.3	1544.7	1504.3	1464.0	1429.5
12.5°	1938.3	1885.5	1816.2	1751.6	1693.2	1631.4	1579.6	1528.5	1479.8	1437.5	1397.2
15°	2027.1	1950.8	1870.8	1784.2	1707.4	1635.2	1564.2	1499.7	1445.1	1389.1	1350.1
17.5°	2081.6	1987.4	1895.8	1805.3	1712.4	1621.2	1544.7	1470.4	1401.9	1346.3	1297.1
20°	2117.5	2023.8	1909.8	1819.4	1708.7	1615.0	1526.5	1443.8	1372.2	1313.0	1262.2
22.5°	2148.8	2040.4	1926.6	1807.4	1697.3	1597.8	1501.0	1417.7	1344.6	1282.2	1233.5
25°	2165.7	2041.3	1917.7	1799.2	1674.2	1556.4	1468.5	1370.9	1292.7	1227.0	1174.9
27.5°	2167.6	2034.6	1894.7	1763.0	1634.0	1524.3	1413.3	1326.1	1245.0	1175.5	1125.5
30°	2161.8	2023.2	1872.7	1730.2	1600.7	1481.6	1385.2	1290.2	1207.5	1138.5	1086.4
32.5°	2143.6	1999.2	1844.6	1693.8	1559.5	1443.0	1343.5	1253.2	1172.6	1104.6	1049.9
35°	2090.8	1948.2	1783.5	1626.7	1489.4	1371.6	1281.7	1189.9	1109.2	1044.8	992.1
37.5°	2008.4	1879.5	1712.1	1549.8	1414.9	1296.6	1207.5	1124.5	1051.8	986.3	932.3
40°	1936.6	1823.3	1655.4	1497.1	1351.4	1238.8	1155.4	1079.3	1007.0	945.2	893.7
42.5°	1853.7	1755.1	1600.2	1432.6	1292.0	1178.8	1097.6	1029.2	961.2	904.0	852.6
45°	1706.1	1641.0	1495.3	1340.3	1193.8	1087.0	1009.6	949.7	892.4	836.5	793.5
47.5°	1536.4	1504.1	1381.3	1234.2	1095.1	989.9	922.8	867.5	817.2	769.8	731.9
50°	1422.3	1406.7	1300.6	1158.7	1025.9	926.9	859.2	811.7	768.7	727.1	691.3
52.5°	1309.9	1309.3	1213.7	1083.7	960.8	865.5	798.3	753.9	716.7	682.8	650.7
55°	1137.8	1156.1	1081.2	965.3	855.3	769.4	708.9	669.2	643.1	615.1	591.1
57.5°	979.9	1010.2	948.4	846.4	754.6	675.4	622.7	592.9	565.2	548.2	530.7
60°	876.9	905.5	857.3	771.4	684.8	617.1	567.0	540.3	516.2	504.5	492.1
62.5°	785.1	810.7	775.0	695.4	620.2	555.1	512.8	487.1	470.9	458.1	450.0
65°	654.2	675.7	645.1	587.2	522.7	470.7	436.1	416.0	400.3	395.1	386.0
67.5°	528.8	548.4	531.8	482.6	430.9	391.5	364.5	345.1	335.9	331.3	324.8
70°	454.4	473.9	456.3	413.4	373.7	340.5	315.0	304.0	294.2	292.3	283.2
72.5°	391.3	404.6	387.0	353.4	319.5	291.5	271.8	260.2	255.2	251.7	246.7
75°	293.6	305.3	293.6	267.5	243.4	224.0	207.0	202.4	196.6	194.6	191.4
77.5°	207.8	217.9	209.0	192.7	174.7	159.6	150.5	144.6	143.3	140.0	141.5
80°	158.8	165.3	156.9	145.8	131.5	121.1	114.5	111.3	107.4	106.1	108.7
82.5°	114.1	116.9	112.6	105.2	94.5	87.7	83.3	79.6	78.8	79.0	79.0
85°	59.3	58.6	58.0	51.4	48.2	43.6	41.0	40.4	39.7	41.0	42.3
87.5°	22.4	23.0	21.3	19.2	17.4	15.7	14.6	13.7	14.6	15.7	16.4
90°	13.3	13.3	7.6	7.6	6.6	5.7	2.9	1.0	2.9	5.7	6.6
92.5°	191.4	117.9	69.7	50.1	36.2	24.6	15.7	10.8	15.7	24.6	36.2
95°	356.2	200.8	118.5	78.6	55.9	43.6	34.1	31.2	34.1	43.6	55.9
97.5°	320.2	191.9	128.5	95.1	75.6	64.2	56.1	56.1	56.1	64.2	75.6
100°	301.3	194.2	138.4	108.0	90.0	78.6	72.0	72.0	72.0	78.6	90.0
102.5°	296.0	201.8	151.2	122.4	105.2	94.6	88.7	87.2	88.7	94.6	105.2
105°	298.4	219.8	174.3	146.8	129.8	118.5	113.7	110.9	113.7	118.5	129.8
107.5°	312.4	240.8	199.2	172.0	155.7	143.7	138.8	137.0	138.8	143.7	155.7
110°	323.0	256.7	215.1	189.5	172.4	161.0	156.3	154.4	156.3	161.0	172.4



TEST NUMBER: P332708-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	334.4	271.9	231.7	206.2	189.1	178.5	173.0	171.1	173.0	178.5	189.1
115°	352.5	295.5	257.7	232.1	214.1	204.6	198.0	195.2	198.0	204.6	214.1
117.5°	370.8	318.5	282.5	256.0	239.1	228.7	222.8	220.1	222.8	228.7	239.1
120°	383.7	334.4	298.4	271.9	255.8	245.4	238.7	236.8	238.7	245.4	255.8
122.5°	395.8	349.6	313.6	287.8	270.2	260.6	253.9	252.0	253.9	260.6	270.2
125°	414.0	370.4	336.3	309.8	291.8	281.4	275.7	271.9	275.7	281.4	291.8
127.5°	429.7	389.7	356.8	330.0	311.3	299.4	292.5	289.5	292.5	299.4	311.3
130°	439.6	402.7	370.4	342.9	325.0	310.7	303.1	299.4	303.1	310.7	325.0
132.5°	449.5	413.3	381.1	355.1	335.6	322.1	312.3	309.2	312.3	322.1	335.6
135°	462.4	428.2	397.0	372.3	352.5	336.3	326.9	323.0	326.9	336.3	352.5
137.5°	471.4	439.6	410.4	386.9	366.2	350.9	340.5	336.9	340.5	350.9	366.2
140°	477.4	447.2	418.7	396.0	376.1	360.0	349.6	346.7	349.6	360.0	376.1
142.5°	482.0	454.0	426.3	404.3	385.2	369.8	360.2	357.3	360.2	369.8	385.2
145°	487.0	461.4	436.8	415.9	397.9	384.7	375.2	372.3	375.2	384.7	397.9
147.5°	491.3	469.0	445.8	427.1	412.1	398.4	390.1	389.1	390.1	398.4	412.1
150°	493.6	472.7	451.9	433.9	419.7	408.3	400.7	399.8	400.7	408.3	419.7
152.5°	495.1	475.8	457.2	440.8	428.0	417.4	409.9	409.6	409.9	417.4	428.0
155°	496.4	480.3	464.2	450.0	439.6	430.1	424.4	423.5	424.4	430.1	439.6
157.5°	496.4	483.6	469.9	458.7	449.6	442.2	436.9	436.9	436.9	442.2	449.6
160°	496.4	485.0	473.7	463.3	455.7	449.1	445.2	445.2	445.2	449.1	455.7
162.5°	496.4	486.6	476.0	467.8	461.0	455.1	452.1	452.8	452.1	455.1	461.0
165°	494.6	487.0	478.4	472.7	468.0	463.3	461.4	461.4	461.4	463.3	468.0
167.5°	492.3	486.7	480.5	476.1	473.5	469.9	469.0	469.9	469.0	469.9	473.5
170°	490.7	486.0	481.3	478.4	476.5	473.7	472.7	473.7	472.7	473.7	476.5
172.5°	489.3	485.3	482.0	480.0	478.8	476.7	476.5	477.4	476.5	476.7	478.8
175°	487.0	484.1	482.2	482.2	481.3	480.3	480.3	481.3	480.3	480.3	481.3
177.5°	484.5	483.0	482.2	482.2	482.2	481.4	482.2	483.0	482.2	481.4	482.2
180°	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2



TEST NUMBER: P332708-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1541.2	1536.5	1529.7	1520.4	1512.5	1504.2	1502.1	1499.0	1505.2	1500.1	1498.4
5°	1490.7	1477.0	1459.4	1439.2	1427.5	1410.6	1407.4	1400.8	1394.3	1393.7	1387.2
7.5°	1437.1	1417.1	1394.1	1373.5	1354.5	1336.0	1323.9	1321.3	1311.7	1306.0	1299.5
10°	1402.8	1378.0	1351.4	1331.9	1309.7	1290.2	1276.5	1268.7	1262.2	1255.0	1248.5
12.5°	1362.2	1335.9	1313.9	1292.7	1266.5	1251.6	1229.1	1215.6	1214.3	1214.4	1197.5
15°	1314.9	1288.9	1255.0	1225.1	1210.7	1182.1	1169.7	1154.1	1144.4	1134.6	1126.8
17.5°	1260.9	1228.5	1202.0	1167.7	1140.4	1117.5	1101.3	1091.9	1077.2	1063.4	1053.4
20°	1227.0	1192.5	1164.6	1128.0	1098.1	1070.2	1056.5	1043.5	1032.4	1020.7	1009.6
22.5°	1192.6	1156.6	1122.3	1087.0	1059.1	1029.6	1016.4	998.7	988.1	981.6	970.5
25°	1138.5	1099.4	1060.4	1026.5	997.9	971.8	954.3	940.6	928.9	923.7	916.6
27.5°	1079.6	1040.9	1003.1	964.7	932.1	913.3	899.2	888.9	882.2	875.2	872.0
30°	1042.2	1001.8	961.5	925.6	895.7	876.9	863.8	856.6	851.4	848.2	844.9
32.5°	1004.1	964.3	921.9	889.2	862.3	845.5	835.7	828.5	825.9	824.8	823.6
35°	943.2	902.9	863.8	834.5	809.1	802.6	794.2	790.3	789.0	793.5	795.5
37.5°	884.3	846.8	810.8	782.4	765.8	756.3	753.4	753.5	758.2	762.2	767.0
40°	846.2	809.8	775.9	751.2	735.6	729.7	728.4	731.6	736.9	741.4	746.7
42.5°	809.3	773.3	742.6	719.4	708.5	703.1	703.9	707.2	714.4	720.1	727.9
45°	751.9	721.9	691.9	673.1	664.0	665.3	665.3	671.2	678.2	686.7	695.2
47.5°	697.8	667.6	643.0	627.1	622.4	621.3	624.9	632.6	642.9	653.3	665.1
50°	661.4	632.8	611.2	596.9	591.7	593.7	598.8	606.0	618.4	631.4	643.8
52.5°	624.4	598.3	578.5	565.2	561.5	565.0	570.2	581.6	592.4	606.4	621.4
55°	567.0	544.9	529.2	519.4	518.1	520.1	525.9	538.3	553.9	571.5	585.9
57.5°	509.8	491.3	477.0	470.3	470.9	472.7	482.3	497.1	513.7	532.5	551.0
60°	471.2	454.4	442.6	437.4	438.1	442.0	453.7	467.4	488.2	506.5	525.9
62.5°	434.8	420.0	408.8	404.1	403.2	411.8	423.0	437.2	458.0	478.3	499.4
65°	376.3	364.5	355.4	352.8	354.7	361.3	375.6	394.4	412.1	433.5	455.7
67.5°	318.9	309.3	303.0	304.3	306.6	316.3	328.2	344.5	364.4	386.7	408.5
70°	282.5	273.4	268.2	268.8	272.7	284.5	294.9	311.1	332.6	355.4	373.7
72.5°	245.0	239.0	234.3	237.1	241.0	249.1	262.0	278.3	297.3	318.5	337.7
75°	188.1	188.1	185.5	187.4	193.3	201.1	210.9	227.8	246.7	263.7	279.2
77.5°	139.6	138.1	139.8	142.2	145.5	154.8	166.0	178.1	192.3	209.2	222.1
80°	106.7	107.4	110.6	114.5	115.9	123.0	134.8	145.8	156.9	171.2	183.6
82.5°	80.2	80.9	82.5	87.5	88.8	96.4	104.0	115.1	125.1	134.8	145.0
85°	43.6	43.6	46.9	48.8	52.1	57.3	61.8	68.3	77.5	84.0	93.8
87.5°	18.2	18.2	21.4	22.4	24.4	27.4	28.2	34.2	36.4	39.2	43.9
90°	7.6	7.6	13.3	13.3	15.2	17.0	16.1	17.0	18.0	18.9	18.9
92.5°	50.1	69.7	117.9	191.4	263.0	300.5	250.3	186.1	140.0	111.5	92.5
95°	78.6	118.5	200.8	356.2	582.6	772.1	793.9	702.0	555.1	428.2	336.3
97.5°	95.1	128.5	191.9	320.2	545.3	813.3	997.4	1037.2	982.6	890.0	791.1
100°	108.0	138.4	194.2	301.3	494.6	761.7	1004.2	1142.6	1161.5	1115.1	1045.0
102.5°	122.4	151.2	201.8	296.0	460.4	697.2	947.4	1137.3	1231.2	1244.6	1215.4
105°	146.8	174.3	219.8	298.4	431.0	621.5	844.1	1061.0	1225.0	1318.7	1357.6
107.5°	172.0	199.2	240.8	312.4	425.7	579.0	760.8	952.8	1127.4	1259.5	1343.9
110°	189.5	215.1	256.7	323.0	427.3	564.7	719.1	887.7	1051.6	1189.0	1293.1



TEST NUMBER: P332708-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	206.2	231.7	271.9	334.4	431.8	557.8	695.5	839.9	984.9	1114.7	1218.9
115°	232.1	257.7	295.5	352.5	440.5	554.2	673.6	792.0	908.6	1019.4	1110.4
117.5°	256.0	282.5	318.5	370.8	449.8	553.3	663.7	768.5	865.0	952.1	1029.2
120°	271.9	298.4	334.4	383.7	456.6	553.3	658.4	757.9	846.0	921.8	989.0
122.5°	287.8	313.6	349.6	395.8	463.5	552.5	652.4	748.8	833.9	902.9	961.8
125°	309.8	336.3	370.4	414.0	473.7	551.4	642.3	733.3	814.7	880.1	932.2
127.5°	330.0	356.8	389.7	429.7	481.8	549.3	628.8	714.3	792.2	857.4	906.9
130°	342.9	370.4	402.7	439.6	487.9	548.5	620.5	699.2	774.0	838.5	888.7
132.5°	355.1	381.1	413.3	449.5	493.2	547.8	612.9	683.2	753.6	816.4	866.7
135°	372.3	397.0	428.2	462.4	501.2	546.7	601.6	661.3	722.8	780.6	828.0
137.5°	386.9	410.4	439.6	471.4	505.9	546.4	591.7	641.4	693.5	742.2	785.0
140°	396.0	418.7	447.2	477.4	509.7	545.7	586.4	630.0	674.5	717.1	756.9
142.5°	404.3	426.3	454.0	482.0	512.7	545.7	581.9	619.4	658.6	695.2	729.7
145°	415.9	436.8	461.4	487.0	514.5	543.8	574.1	604.5	636.7	665.0	691.6
147.5°	427.1	445.8	469.0	491.3	515.4	540.4	567.1	592.2	617.7	640.4	661.3
150°	433.9	451.9	472.7	493.6	515.4	538.1	561.8	584.6	606.3	625.3	642.3
152.5°	440.8	457.2	475.8	495.1	513.9	534.3	555.7	576.2	594.9	612.4	626.4
155°	450.0	464.2	480.3	496.4	511.6	528.6	546.7	563.7	578.9	593.0	604.5
157.5°	458.7	469.9	483.6	496.4	509.2	522.8	537.4	550.2	563.0	574.9	584.0
160°	463.3	473.7	485.0	496.4	506.9	518.2	530.5	541.9	552.3	562.7	570.3
162.5°	467.8	476.0	486.6	496.4	504.6	513.6	524.5	533.5	542.5	550.7	557.4
165°	472.7	478.4	487.0	494.6	500.2	506.9	514.5	522.0	527.7	534.3	539.1
167.5°	476.1	480.5	486.7	492.3	495.7	500.0	505.3	510.9	515.2	520.5	523.3
170°	478.4	481.3	486.0	490.7	492.6	495.5	499.3	504.0	506.9	510.6	513.5
172.5°	480.0	482.0	485.3	489.3	489.6	490.9	494.0	497.9	500.0	502.3	504.3
175°	482.2	482.2	484.1	487.0	486.0	486.0	487.9	489.8	490.7	492.6	492.6
177.5°	482.2	482.2	483.0	484.5	483.0	483.0	483.7	484.5	485.3	485.3	486.0
180°	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2



TEST NUMBER: P332708-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1497.5	1496.4	1492.7	1492.2	1492.7	1496.4	1497.5	1498.4	1500.1	1505.2	1499.0
5°	1383.2	1380.0	1378.0	1385.2	1378.0	1380.0	1383.2	1387.2	1393.7	1394.3	1400.8
7.5°	1297.2	1294.6	1288.9	1287.0	1288.9	1294.6	1297.2	1299.5	1306.0	1311.7	1321.3
10°	1242.0	1239.4	1234.2	1232.9	1234.2	1239.4	1242.0	1248.5	1255.0	1262.2	1268.7
12.5°	1188.9	1183.7	1182.7	1184.0	1182.7	1183.7	1188.9	1197.5	1214.4	1214.3	1215.6
15°	1118.3	1115.7	1108.6	1110.5	1108.6	1115.7	1118.3	1126.8	1134.6	1144.4	1154.1
17.5°	1048.8	1045.7	1037.0	1044.6	1037.0	1045.7	1048.8	1053.4	1063.4	1077.2	1091.9
20°	1005.0	999.9	995.3	994.7	995.3	999.9	1005.0	1009.6	1020.7	1032.4	1043.5
22.5°	963.4	958.7	958.3	954.1	958.3	958.7	963.4	970.5	981.6	988.1	998.7
25°	911.3	906.8	905.5	902.2	905.5	906.8	911.3	916.6	923.7	928.9	940.6
27.5°	871.4	869.1	866.8	867.8	866.8	869.1	871.4	872.0	875.2	882.2	888.9
30°	846.9	846.2	844.9	844.9	844.9	846.2	846.9	844.9	848.2	851.4	856.6
32.5°	826.6	826.5	827.2	827.2	827.2	826.5	826.6	823.6	824.8	825.9	828.5
35°	798.1	800.0	801.3	799.3	801.3	800.0	798.1	795.5	793.5	789.0	790.3
37.5°	772.3	774.2	776.1	778.3	776.1	774.2	772.3	767.0	762.2	758.2	753.5
40°	752.5	757.1	758.3	761.6	758.3	757.1	752.5	746.7	741.4	736.9	731.6
42.5°	733.8	738.8	742.2	742.8	742.2	738.8	733.8	727.9	720.1	714.4	707.2
45°	705.0	710.2	714.8	714.8	714.8	710.2	705.0	695.2	686.7	678.2	671.2
47.5°	675.1	682.7	687.3	688.4	687.3	682.7	675.1	665.1	653.3	642.9	632.6
50°	654.8	664.0	668.5	671.8	668.5	664.0	654.8	643.8	631.4	618.4	606.0
52.5°	635.0	644.2	650.3	652.0	650.3	644.2	635.0	621.4	606.4	592.4	581.6
55°	600.8	613.8	621.0	623.6	621.0	613.8	600.8	585.9	571.5	553.9	538.3
57.5°	568.5	580.5	588.8	590.8	588.8	580.5	568.5	551.0	532.5	513.7	497.1
60°	543.6	556.5	567.0	568.9	567.0	556.5	543.6	525.9	506.5	488.2	467.4
62.5°	518.0	531.6	541.0	546.0	541.0	531.6	518.0	499.4	478.3	458.0	437.2
65°	473.9	487.5	496.7	498.6	496.7	487.5	473.9	455.7	433.5	412.1	394.4
67.5°	425.7	439.4	445.4	449.1	445.4	439.4	425.7	408.5	386.7	364.4	344.5
70°	391.8	402.9	409.4	412.7	409.4	402.9	391.8	373.7	355.4	332.6	311.1
72.5°	353.4	364.9	372.5	373.1	372.5	364.9	353.4	337.7	318.5	297.3	278.3
75°	294.2	304.7	308.5	308.5	308.5	304.7	294.2	279.2	263.7	246.7	227.8
77.5°	232.9	238.2	243.2	244.3	243.2	238.2	232.9	222.1	209.2	192.3	178.1
80°	193.3	196.6	200.5	200.5	200.5	196.6	193.3	183.6	171.2	156.9	145.8
82.5°	152.7	155.5	159.4	158.8	159.4	155.5	152.7	145.0	134.8	125.1	115.1
85°	92.5	98.3	97.7	96.4	97.7	98.3	92.5	93.8	84.0	77.5	68.3
87.5°	45.7	46.3	47.7	48.8	47.7	46.3	45.7	43.9	39.2	36.4	34.2
90°	19.9	20.9	19.9	19.9	19.9	20.9	19.9	18.9	18.9	18.0	17.0
92.5°	81.3	76.1	73.0	73.0	73.0	76.1	81.3	92.5	111.5	140.0	186.1
95°	289.9	260.6	243.4	231.1	243.4	260.6	289.9	336.3	428.2	555.1	702.0
97.5°	723.0	666.0	637.6	617.9	637.6	666.0	723.0	791.1	890.0	982.6	1037.2
100°	962.5	904.7	876.4	868.8	876.4	904.7	962.5	1045.0	1115.1	1161.5	1142.6
102.5°	1164.9	1123.0	1093.1	1087.0	1093.1	1123.0	1164.9	1215.4	1244.6	1231.2	1137.3
105°	1359.5	1351.9	1338.6	1332.9	1338.6	1351.9	1359.5	1357.6	1318.7	1225.0	1061.0
107.5°	1390.7	1412.3	1421.8	1424.3	1421.8	1412.3	1390.7	1343.9	1259.5	1127.4	952.8
110°	1360.4	1400.2	1417.3	1425.8	1417.3	1400.2	1360.4	1293.1	1189.0	1051.6	887.7



TEST NUMBER: P332708-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1295.3	1343.4	1367.3	1381.1	1367.3	1343.4	1295.3	1218.9	1114.7	984.9	839.9
115°	1185.2	1242.0	1272.4	1279.9	1272.4	1242.0	1185.2	1110.4	1019.4	908.6	792.0
117.5°	1093.1	1140.8	1171.5	1177.4	1171.5	1140.8	1093.1	1029.2	952.1	865.0	768.5
120°	1043.1	1084.8	1109.4	1119.8	1109.4	1084.8	1043.1	989.0	921.8	846.0	757.9
122.5°	1007.5	1043.1	1063.9	1074.3	1063.9	1043.1	1007.5	961.8	902.9	833.9	748.8
125°	970.1	997.6	1015.6	1021.2	1015.6	997.6	970.1	932.2	880.1	814.7	733.3
127.5°	944.9	969.4	984.6	990.2	984.6	969.4	944.9	906.9	857.4	792.2	714.3
130°	927.5	951.1	966.3	972.0	966.3	951.1	927.5	888.7	838.5	774.0	699.2
132.5°	904.7	931.5	945.8	951.5	945.8	931.5	904.7	866.7	816.4	753.6	683.2
135°	865.9	892.4	907.6	913.3	907.6	892.4	865.9	828.0	780.6	722.8	661.3
137.5°	820.4	846.6	859.1	865.9	859.1	846.6	820.4	785.0	742.2	693.5	641.4
140°	790.1	811.0	824.2	831.8	824.2	811.0	790.1	756.9	717.1	674.5	630.0
142.5°	759.0	778.4	790.1	795.4	790.1	778.4	759.0	729.7	695.2	658.6	619.4
145°	715.3	731.4	740.9	745.6	740.9	731.4	715.3	691.6	665.0	636.7	604.5
147.5°	678.7	692.5	699.8	701.4	699.8	692.5	678.7	661.3	640.4	617.7	592.2
150°	657.5	669.8	675.5	676.5	675.5	669.8	657.5	642.3	625.3	606.3	584.6
152.5°	639.3	649.3	652.7	653.7	652.7	649.3	639.3	626.4	612.4	594.9	576.2
155°	613.9	621.5	624.4	624.4	624.4	621.5	613.9	604.5	593.0	578.9	563.7
157.5°	591.2	596.9	598.6	598.6	598.6	596.9	591.2	584.0	574.9	563.0	550.2
160°	576.0	581.7	582.6	582.6	582.6	581.7	576.0	570.3	562.7	552.3	541.9
162.5°	561.6	567.3	568.3	567.4	568.3	567.3	561.6	557.4	550.7	542.5	533.5
165°	542.8	546.7	545.7	544.8	545.7	546.7	542.8	539.1	534.3	527.7	522.0
167.5°	525.2	527.7	527.5	526.8	527.5	527.7	525.2	523.3	520.5	515.2	510.9
170°	515.4	516.3	515.4	515.4	515.4	516.3	515.4	513.5	510.6	506.9	504.0
172.5°	505.5	506.5	505.5	504.0	505.5	506.5	505.5	504.3	502.3	500.0	497.9
175°	492.6	494.6	492.6	490.7	492.6	494.6	492.6	492.6	492.6	490.7	489.8
177.5°	485.3	486.0	484.5	483.0	484.5	486.0	485.3	486.0	485.3	485.3	484.5
180°	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2



TEST NUMBER: P332708-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1502.1	1504.2	1512.5	1520.4	1529.7	1536.5	1541.2	1546.4	1557.3	1566.2	1574.5
5°	1407.4	1410.6	1427.5	1439.2	1459.4	1477.0	1490.7	1505.6	1523.2	1547.3	1569.5
7.5°	1323.9	1336.0	1354.5	1373.5	1394.1	1417.1	1437.1	1459.7	1490.0	1523.1	1557.2
10°	1276.5	1290.2	1309.7	1331.9	1351.4	1378.0	1402.8	1429.5	1464.0	1504.3	1544.7
12.5°	1229.1	1251.6	1266.5	1292.7	1313.9	1335.9	1362.2	1397.2	1437.5	1479.8	1528.5
15°	1169.7	1182.1	1210.7	1225.1	1255.0	1288.9	1314.9	1350.1	1389.1	1445.1	1499.7
17.5°	1101.3	1117.5	1140.4	1167.7	1202.0	1228.5	1260.9	1297.1	1346.3	1401.9	1470.4
20°	1056.5	1070.2	1098.1	1128.0	1164.6	1192.5	1227.0	1262.2	1313.0	1372.2	1443.8
22.5°	1016.4	1029.6	1059.1	1087.0	1122.3	1156.6	1192.6	1233.5	1282.2	1344.6	1417.7
25°	954.3	971.8	997.9	1026.5	1060.4	1099.4	1138.5	1174.9	1227.0	1292.7	1370.9
27.5°	899.2	913.3	932.1	964.7	1003.1	1040.9	1079.6	1125.5	1175.5	1245.0	1326.1
30°	863.8	876.9	895.7	925.6	961.5	1001.8	1042.2	1086.4	1138.5	1207.5	1290.2
32.5°	835.7	845.5	862.3	889.2	921.9	964.3	1004.1	1049.9	1104.6	1172.6	1253.2
35°	794.2	802.6	809.1	834.5	863.8	902.9	943.2	992.1	1044.8	1109.2	1189.9
37.5°	753.4	756.3	765.8	782.4	810.8	846.8	884.3	932.3	986.3	1051.8	1124.5
40°	728.4	729.7	735.6	751.2	775.9	809.8	846.2	893.7	945.2	1007.0	1079.3
42.5°	703.9	703.1	708.5	719.4	742.6	773.3	809.3	852.6	904.0	961.2	1029.2
45°	665.3	665.3	664.0	673.1	691.9	721.9	751.9	793.5	836.5	892.4	949.7
47.5°	624.9	621.3	622.4	627.1	643.0	667.6	697.8	731.9	769.8	817.2	867.5
50°	598.8	593.7	591.7	596.9	611.2	632.8	661.4	691.3	727.1	768.7	811.7
52.5°	570.2	565.0	561.5	565.2	578.5	598.3	624.4	650.7	682.8	716.7	753.9
55°	525.9	520.1	518.1	519.4	529.2	544.9	567.0	591.1	615.1	643.1	669.2
57.5°	482.3	472.7	470.9	470.3	477.0	491.3	509.8	530.7	548.2	565.2	592.9
60°	453.7	442.0	438.1	437.4	442.6	454.4	471.2	492.1	504.5	516.2	540.3
62.5°	423.0	411.8	403.2	404.1	408.8	420.0	434.8	450.0	458.1	470.9	487.1
65°	375.6	361.3	354.7	352.8	355.4	364.5	376.3	386.0	395.1	400.3	416.0
67.5°	328.2	316.3	306.6	304.3	303.0	309.3	318.9	324.8	331.3	335.9	345.1
70°	294.9	284.5	272.7	268.8	268.2	273.4	282.5	283.2	292.3	294.2	304.0
72.5°	262.0	249.1	241.0	237.1	234.3	239.0	245.0	246.7	251.7	255.2	260.2
75°	210.9	201.1	193.3	187.4	185.5	188.1	188.1	191.4	194.6	196.6	202.4
77.5°	166.0	154.8	145.5	142.2	139.8	138.1	139.6	141.5	140.0	143.3	144.6
80°	134.8	123.0	115.9	114.5	110.6	107.4	106.7	108.7	106.1	107.4	111.3
82.5°	104.0	96.4	88.8	87.5	82.5	80.9	80.2	79.0	79.0	78.8	79.6
85°	61.8	57.3	52.1	48.8	46.9	43.6	43.6	42.3	41.0	39.7	40.4
87.5°	28.2	27.4	24.4	22.4	21.4	18.2	18.2	16.4	15.7	14.6	13.7
90°	16.1	17.0	15.2	13.3	13.3	7.6	7.6	6.6	5.7	2.9	1.0
92.5°	250.3	300.5	263.0	191.4	117.9	69.7	50.1	36.2	24.6	15.7	10.8
95°	793.9	772.1	582.6	356.2	200.8	118.5	78.6	55.9	43.6	34.1	31.2
97.5°	997.4	813.3	545.3	320.2	191.9	128.5	95.1	75.6	64.2	56.1	56.1
100°	1004.2	761.7	494.6	301.3	194.2	138.4	108.0	90.0	78.6	72.0	72.0
102.5°	947.4	697.2	460.4	296.0	201.8	151.2	122.4	105.2	94.6	88.7	87.2
105°	844.1	621.5	431.0	298.4	219.8	174.3	146.8	129.8	118.5	113.7	110.9
107.5°	760.8	579.0	425.7	312.4	240.8	199.2	172.0	155.7	143.7	138.8	137.0
110°	719.1	564.7	427.3	323.0	256.7	215.1	189.5	172.4	161.0	156.3	154.4



TEST NUMBER: P332708-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	695.5	557.8	431.8	334.4	271.9	231.7	206.2	189.1	178.5	173.0	171.1
115°	673.6	554.2	440.5	352.5	295.5	257.7	232.1	214.1	204.6	198.0	195.2
117.5°	663.7	553.3	449.8	370.8	318.5	282.5	256.0	239.1	228.7	222.8	220.1
120°	658.4	553.3	456.6	383.7	334.4	298.4	271.9	255.8	245.4	238.7	236.8
122.5°	652.4	552.5	463.5	395.8	349.6	313.6	287.8	270.2	260.6	253.9	252.0
125°	642.3	551.4	473.7	414.0	370.4	336.3	309.8	291.8	281.4	275.7	271.9
127.5°	628.8	549.3	481.8	429.7	389.7	356.8	330.0	311.3	299.4	292.5	289.5
130°	620.5	548.5	487.9	439.6	402.7	370.4	342.9	325.0	310.7	303.1	299.4
132.5°	612.9	547.8	493.2	449.5	413.3	381.1	355.1	335.6	322.1	312.3	309.2
135°	601.6	546.7	501.2	462.4	428.2	397.0	372.3	352.5	336.3	326.9	323.0
137.5°	591.7	546.4	505.9	471.4	439.6	410.4	386.9	366.2	350.9	340.5	336.9
140°	586.4	545.7	509.7	477.4	447.2	418.7	396.0	376.1	360.0	349.6	346.7
142.5°	581.9	545.7	512.7	482.0	454.0	426.3	404.3	385.2	369.8	360.2	357.3
145°	574.1	543.8	514.5	487.0	461.4	436.8	415.9	397.9	384.7	375.2	372.3
147.5°	567.1	540.4	515.4	491.3	469.0	445.8	427.1	412.1	398.4	390.1	389.1
150°	561.8	538.1	515.4	493.6	472.7	451.9	433.9	419.7	408.3	400.7	399.8
152.5°	555.7	534.3	513.9	495.1	475.8	457.2	440.8	428.0	417.4	409.9	409.6
155°	546.7	528.6	511.6	496.4	480.3	464.2	450.0	439.6	430.1	424.4	423.5
157.5°	537.4	522.8	509.2	496.4	483.6	469.9	458.7	449.6	442.2	436.9	436.9
160°	530.5	518.2	506.9	496.4	485.0	473.7	463.3	455.7	449.1	445.2	445.2
162.5°	524.5	513.6	504.6	496.4	486.6	476.0	467.8	461.0	455.1	452.1	452.8
165°	514.5	506.9	500.2	494.6	487.0	478.4	472.7	468.0	463.3	461.4	461.4
167.5°	505.3	500.0	495.7	492.3	486.7	480.5	476.1	473.5	469.9	469.0	469.9
170°	499.3	495.5	492.6	490.7	486.0	481.3	478.4	476.5	473.7	472.7	473.7
172.5°	494.0	490.9	489.6	489.3	485.3	482.0	480.0	478.8	476.7	476.5	477.4
175°	487.9	486.0	486.0	487.0	484.1	482.2	482.2	481.3	480.3	480.3	481.3
177.5°	483.7	483.0	483.0	484.5	483.0	482.2	482.2	482.2	481.4	482.2	483.0
180°	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2



TEST NUMBER: P332708-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1581.8	1587.0	1593.7	1605.2	1609.4	1614.6	1621.9	1621.4	1623.4	1631.3	1648.0
5°	1587.6	1607.9	1627.3	1650.8	1675.5	1691.8	1713.9	1727.6	1741.3	1758.8	1788.8
7.5°	1590.0	1622.0	1657.8	1699.0	1735.5	1777.8	1810.7	1841.7	1869.6	1906.7	1942.5
10°	1586.3	1629.3	1675.5	1727.6	1782.9	1829.8	1872.1	1920.3	1961.3	2006.2	2046.6
12.5°	1579.6	1631.4	1693.2	1751.6	1816.2	1885.5	1938.3	1987.0	2041.5	2093.2	2155.4
15°	1564.2	1635.2	1707.4	1784.2	1870.8	1950.8	2027.1	2090.2	2148.8	2226.3	2307.6
17.5°	1544.7	1621.2	1712.4	1805.3	1895.8	1987.4	2081.6	2176.5	2250.5	2346.7	2410.4
20°	1526.5	1615.0	1708.7	1819.4	1909.8	2023.8	2117.5	2209.3	2310.9	2406.5	2482.7
22.5°	1501.0	1597.8	1697.3	1807.4	1926.6	2040.4	2148.8	2248.4	2349.9	2454.0	2546.3
25°	1468.5	1556.4	1674.2	1799.2	1917.7	2041.3	2165.7	2290.7	2400.0	2510.1	2596.0
27.5°	1413.3	1524.3	1634.0	1763.0	1894.7	2034.6	2167.6	2298.3	2413.0	2503.4	2556.6
30°	1385.2	1481.6	1600.7	1730.2	1872.7	2023.2	2161.8	2290.0	2396.8	2469.1	2490.5
32.5°	1343.5	1443.0	1559.5	1693.8	1844.6	1999.2	2143.6	2264.5	2353.5	2391.4	2365.5
35°	1281.7	1371.6	1489.4	1626.7	1783.5	1948.2	2090.8	2193.0	2238.6	2202.8	2113.6
37.5°	1207.5	1296.6	1414.9	1549.8	1712.1	1879.5	2008.4	2081.9	2066.9	1977.8	1844.9
40°	1155.4	1238.8	1351.4	1497.1	1655.4	1823.3	1936.6	1976.3	1934.6	1807.0	1665.7
42.5°	1097.6	1178.8	1292.0	1432.6	1600.2	1755.1	1853.7	1857.0	1787.2	1634.7	1492.9
45°	1009.6	1087.0	1193.8	1340.3	1495.3	1641.0	1706.1	1674.2	1545.3	1398.2	1255.6
47.5°	922.8	989.9	1095.1	1234.2	1381.3	1504.1	1536.4	1479.0	1341.6	1198.8	1066.7
50°	859.2	926.9	1025.9	1158.7	1300.6	1406.7	1422.3	1346.1	1211.4	1067.6	964.0
52.5°	798.3	865.5	960.8	1083.7	1213.7	1309.3	1309.9	1221.7	1087.4	959.2	863.0
55°	708.9	769.4	855.3	965.3	1081.2	1156.1	1137.8	1046.7	930.2	818.9	734.9
57.5°	622.7	675.4	754.6	846.4	948.4	1010.2	979.9	892.2	788.1	693.7	630.1
60°	567.0	617.1	684.8	771.4	857.3	905.5	876.9	797.4	701.7	625.6	570.2
62.5°	512.8	555.1	620.2	695.4	775.0	810.7	785.1	706.8	624.1	555.2	510.4
65°	436.1	470.7	522.7	587.2	645.1	675.7	654.2	581.3	518.1	468.7	432.8
67.5°	364.5	391.5	430.9	482.6	531.8	548.4	528.8	478.1	424.5	385.0	359.7
70°	315.0	340.5	373.7	413.4	456.3	473.9	454.4	414.0	370.4	333.9	309.2
72.5°	271.8	291.5	319.5	353.4	387.0	404.6	391.3	352.5	315.7	288.6	267.5
75°	207.0	224.0	243.4	267.5	293.6	305.3	293.6	266.8	241.5	221.4	206.4
77.5°	150.5	159.6	174.7	192.7	209.0	217.9	207.8	189.7	174.2	160.4	153.0
80°	114.5	121.1	131.5	145.8	156.9	165.3	158.8	143.8	131.5	122.4	119.1
82.5°	83.3	87.7	94.5	105.2	112.6	116.9	114.1	103.2	98.2	90.1	86.8
85°	41.0	43.6	48.2	51.4	58.0	58.6	59.3	54.7	50.1	48.2	45.6
87.5°	14.6	15.7	17.4	19.2	21.3	23.0	22.4	22.8	21.1	20.4	18.5
90°	2.9	5.7	6.6	7.6	7.6	13.3	13.3	15.2	17.0	16.1	17.0
92.5°	15.7	24.6	36.2	50.1	69.7	117.9	191.4	263.0	300.5	250.3	186.1
95°	34.1	43.6	55.9	78.6	118.5	200.8	356.2	582.6	772.1	793.9	702.0
97.5°	56.1	64.2	75.6	95.1	128.5	191.9	320.2	545.3	813.3	997.4	1037.2
100°	72.0	78.6	90.0	108.0	138.4	194.2	301.3	494.6	761.7	1004.2	1142.6
102.5°	88.7	94.6	105.2	122.4	151.2	201.8	296.0	460.4	697.2	947.4	1137.3
105°	113.7	118.5	129.8	146.8	174.3	219.8	298.4	431.0	621.5	844.1	1061.0
107.5°	138.8	143.7	155.7	172.0	199.2	240.8	312.4	425.7	579.0	760.8	952.8
110°	156.3	161.0	172.4	189.5	215.1	256.7	323.0	427.3	564.7	719.1	887.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.0	178.5	189.1	206.2	231.7	271.9	334.4	431.8	557.8	695.5	839.9
115°	198.0	204.6	214.1	232.1	257.7	295.5	352.5	440.5	554.2	673.6	792.0
117.5°	222.8	228.7	239.1	256.0	282.5	318.5	370.8	449.8	553.3	663.7	768.5
120°	238.7	245.4	255.8	271.9	298.4	334.4	383.7	456.6	553.3	658.4	757.9
122.5°	253.9	260.6	270.2	287.8	313.6	349.6	395.8	463.5	552.5	652.4	748.8
125°	275.7	281.4	291.8	309.8	336.3	370.4	414.0	473.7	551.4	642.3	733.3
127.5°	292.5	299.4	311.3	330.0	356.8	389.7	429.7	481.8	549.3	628.8	714.3
130°	303.1	310.7	325.0	342.9	370.4	402.7	439.6	487.9	548.5	620.5	699.2
132.5°	312.3	322.1	335.6	355.1	381.1	413.3	449.5	493.2	547.8	612.9	683.2
135°	326.9	336.3	352.5	372.3	397.0	428.2	462.4	501.2	546.7	601.6	661.3
137.5°	340.5	350.9	366.2	386.9	410.4	439.6	471.4	505.9	546.4	591.7	641.4
140°	349.6	360.0	376.1	396.0	418.7	447.2	477.4	509.7	545.7	586.4	630.0
142.5°	360.2	369.8	385.2	404.3	426.3	454.0	482.0	512.7	545.7	581.9	619.4
145°	375.2	384.7	397.9	415.9	436.8	461.4	487.0	514.5	543.8	574.1	604.5
147.5°	390.1	398.4	412.1	427.1	445.8	469.0	491.3	515.4	540.4	567.1	592.2
150°	400.7	408.3	419.7	433.9	451.9	472.7	493.6	515.4	538.1	561.8	584.6
152.5°	409.9	417.4	428.0	440.8	457.2	475.8	495.1	513.9	534.3	555.7	576.2
155°	424.4	430.1	439.6	450.0	464.2	480.3	496.4	511.6	528.6	546.7	563.7
157.5°	436.9	442.2	449.6	458.7	469.9	483.6	496.4	509.2	522.8	537.4	550.2
160°	445.2	449.1	455.7	463.3	473.7	485.0	496.4	506.9	518.2	530.5	541.9
162.5°	452.1	455.1	461.0	467.8	476.0	486.6	496.4	504.6	513.6	524.5	533.5
165°	461.4	463.3	468.0	472.7	478.4	487.0	494.6	500.2	506.9	514.5	522.0
167.5°	469.0	469.9	473.5	476.1	480.5	486.7	492.3	495.7	500.0	505.3	510.9
170°	472.7	473.7	476.5	478.4	481.3	486.0	490.7	492.6	495.5	499.3	504.0
172.5°	476.5	476.7	478.8	480.0	482.0	485.3	489.3	489.6	490.9	494.0	497.9
175°	480.3	480.3	481.3	482.2	482.2	484.1	487.0	486.0	486.0	487.9	489.8
177.5°	482.2	481.4	482.2	482.2	482.2	483.0	484.5	483.0	483.0	483.7	484.5
180°	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2	482.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1656.3	1657.3	1662.0	1665.7	1666.7	1671.9	1672.4
5°	1801.8	1812.9	1834.3	1836.3	1839.6	1856.5	1843.5
7.5°	1972.4	2000.5	2019.3	2035.8	2041.8	2049.2	2047.6
10°	2081.7	2123.4	2144.2	2177.4	2178.7	2187.2	2182.0
12.5°	2191.6	2240.0	2278.0	2284.1	2312.0	2316.3	2323.6
15°	2347.3	2398.7	2451.4	2470.4	2508.8	2517.9	2532.2
17.5°	2493.7	2546.3	2583.2	2632.0	2647.8	2668.9	2654.5
20°	2573.8	2631.1	2678.0	2716.4	2732.6	2744.4	2743.1
22.5°	2622.2	2680.1	2718.0	2747.2	2762.3	2767.3	2767.0
25°	2652.6	2685.8	2697.5	2708.6	2691.6	2685.8	2688.4
27.5°	2568.3	2559.6	2529.1	2488.9	2447.3	2414.2	2396.2
30°	2452.1	2401.3	2355.2	2274.4	2232.8	2208.0	2185.9
32.5°	2287.6	2207.1	2118.1	2044.2	1996.8	1960.1	1954.7
35°	2005.6	1884.5	1775.8	1685.3	1638.4	1598.7	1589.6
37.5°	1705.1	1579.3	1481.4	1401.7	1351.4	1323.4	1297.2
40°	1505.6	1397.6	1301.2	1233.5	1195.1	1174.9	1158.7
42.5°	1352.0	1253.4	1157.5	1106.0	1071.2	1058.8	1049.3
45°	1139.8	1048.0	981.6	942.6	922.3	901.6	891.8
47.5°	969.9	895.2	851.4	818.2	796.6	784.2	778.0
50°	873.6	812.4	773.3	748.0	728.4	718.6	713.5
52.5°	788.1	737.9	705.1	684.9	671.6	664.5	662.4
55°	678.9	640.5	619.7	602.1	592.4	585.9	583.3
57.5°	590.1	560.6	543.6	529.2	525.5	520.0	518.1
60°	531.8	509.1	494.7	484.9	481.7	475.2	476.5
62.5°	480.3	461.6	449.4	443.8	439.5	434.1	435.9
65°	406.2	392.5	386.0	380.8	375.6	372.3	375.0
67.5°	340.8	331.5	322.6	319.6	317.0	316.5	313.7
70°	298.2	290.3	282.5	280.5	280.5	277.9	277.3
72.5°	257.0	251.3	246.1	244.6	242.6	243.6	240.8
75°	198.5	194.0	192.0	190.0	189.4	189.4	187.4
77.5°	146.8	143.3	140.2	140.2	137.9	137.0	136.7
80°	111.3	110.0	107.4	107.4	106.1	106.7	105.4
82.5°	83.7	81.9	81.4	80.3	78.5	78.6	77.4
85°	44.9	43.0	42.3	40.4	39.1	40.4	39.1
87.5°	19.2	18.9	18.3	17.5	17.2	17.0	15.4
90°	18.0	18.9	18.9	19.9	20.9	19.9	19.9
92.5°	140.0	111.5	92.5	81.3	76.1	73.0	73.0
95°	555.1	428.2	336.3	289.9	260.6	243.4	231.1
97.5°	982.6	890.0	791.1	723.0	666.0	637.6	617.9
100°	1161.5	1115.1	1045.0	962.5	904.7	876.4	868.8
102.5°	1231.2	1244.6	1215.4	1164.9	1123.0	1093.1	1087.0
105°	1225.0	1318.7	1357.6	1359.5	1351.9	1338.6	1332.9
107.5°	1127.4	1259.5	1343.9	1390.7	1412.3	1421.8	1424.3
110°	1051.6	1189.0	1293.1	1360.4	1400.2	1417.3	1425.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	984.9	1114.7	1218.9	1295.3	1343.4	1367.3	1381.1
115°	908.6	1019.4	1110.4	1185.2	1242.0	1272.4	1279.9
117.5°	865.0	952.1	1029.2	1093.1	1140.8	1171.5	1177.4
120°	846.0	921.8	989.0	1043.1	1084.8	1109.4	1119.8
122.5°	833.9	902.9	961.8	1007.5	1043.1	1063.9	1074.3
125°	814.7	880.1	932.2	970.1	997.6	1015.6	1021.2
127.5°	792.2	857.4	906.9	944.9	969.4	984.6	990.2
130°	774.0	838.5	888.7	927.5	951.1	966.3	972.0
132.5°	753.6	816.4	866.7	904.7	931.5	945.8	951.5
135°	722.8	780.6	828.0	865.9	892.4	907.6	913.3
137.5°	693.5	742.2	785.0	820.4	846.6	859.1	865.9
140°	674.5	717.1	756.9	790.1	811.0	824.2	831.8
142.5°	658.6	695.2	729.7	759.0	778.4	790.1	795.4
145°	636.7	665.0	691.6	715.3	731.4	740.9	745.6
147.5°	617.7	640.4	661.3	678.7	692.5	699.8	701.4
150°	606.3	625.3	642.3	657.5	669.8	675.5	676.5
152.5°	594.9	612.4	626.4	639.3	649.3	652.7	653.7
155°	578.9	593.0	604.5	613.9	621.5	624.4	624.4
157.5°	563.0	574.9	584.0	591.2	596.9	598.6	598.6
160°	552.3	562.7	570.3	576.0	581.7	582.6	582.6
162.5°	542.5	550.7	557.4	561.6	567.3	568.3	567.4
165°	527.7	534.3	539.1	542.8	546.7	545.7	544.8
167.5°	515.2	520.5	523.3	525.2	527.7	527.5	526.8
170°	506.9	510.6	513.5	515.4	516.3	515.4	515.4
172.5°	500.0	502.3	504.3	505.5	506.5	505.5	504.0
175°	490.7	492.6	492.6	492.6	494.6	492.6	490.7
177.5°	485.3	485.3	486.0	485.3	486.0	484.5	483.0
180°	482.2	482.2	482.2	482.2	482.2	482.2	482.2

(END OF REPORT)