

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: P332663-930

Luminaire Tested: **SA4XXDIP-C1020D1205U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332663-930
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-C1020D1205U930-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 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: 7263.6 lumens
Efficiency: N/A
Efficacy: 111.1 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

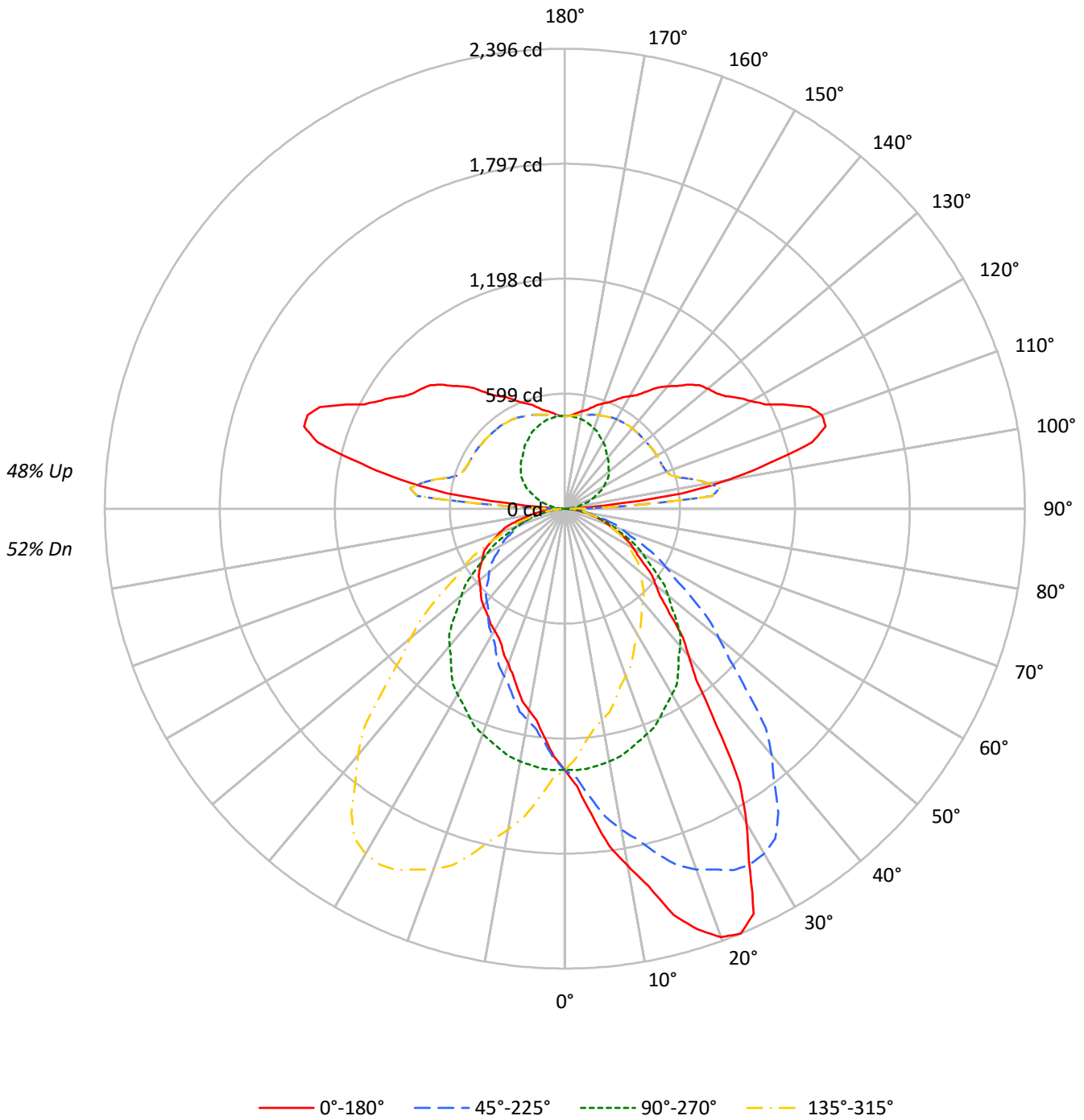
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	82	76	71	83	77	71	67	65	61	58	55	52	50	45	44	42	37
3	82	73	65	60	76	68	61	56	58	53	49	49	45	42	40	38	36	32
4	75	64	57	51	69	60	53	48	52	46	42	44	40	36	36	33	31	27
5	69	58	50	44	64	54	47	41	46	41	36	39	35	32	33	30	27	24
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21	19
8	55	42	35	30	51	40	33	28	35	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15
10	48	36	28	24	44	33	27	23	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10984	10984	10984	10984
5°	12935	11012	9720	11012
10°	15488	10964	8751	10964
15°	18324	10853	8037	10853
20°	20405	10740	7399	10740
25°	20735	10573	6959	10573
30°	17643	10413	6820	10413
35°	13565	10154	6821	10154
40°	10572	9848	6949	9848
45°	8816	9388	7066	9388
50°	7759	8828	7304	8828
55°	7108	8155	7600	8155
60°	6660	7553	7953	7553
65°	6202	6879	8246	6879
70°	5667	6212	8434	6212
75°	5062	5468	8334	5468
80°	4245	4482	8071	4482
85°	3131	3242	7725	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	1.8
10°-20°	408.6	5.6
20°-30°	647.9	8.9
30°-40°	721.0	9.9
40°-50°	656.3	9.0
50°-60°	536.3	7.4
60°-70°	382.9	5.3
70°-80°	210.8	2.9
80°-90°	60.2	0.8
90°-100°	348.3	4.8
100°-110°	724.9	10.0
110°-120°	649.3	8.9
120°-130°	546.2	7.5
130°-140°	455.4	6.3
140°-150°	347.9	4.8
150°-160°	244.5	3.4
160°-170°	143.8	2.0
170°-180°	46.8	0.6
0°-30°	1189.0	16.4
0°-40°	1910.0	26.3
0°-60°	3102.6	42.7
0°-90°	3756.5	51.7
90°-120°	1722.5	23.7
90°-150°	3071.9	42.3
90°-180°	3507.0	48.3
0°-180°	7263.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1361	1361	1361	1361	1361	
5°	1596	1359	1199	1359	1596	162
15°	2192	1299	962	1299	2192	619
25°	2328	1187	781	1187	2328	1026
35°	1376	1030	692	1030	1376	874
45°	772	822	619	822	772	608
55°	505	579	540	579	505	456
65°	325	360	432	360	325	321
75°	162	175	267	175	162	173
85°	34	35	83	35	34	42
90°	20	1	20	1	20	17
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°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1448.1	1447.6	1443.1	1442.2	1439.0	1435.0	1434.1	1426.9	1412.4	1405.7	1403.9
5°	1596.2	1607.4	1592.8	1590.0	1588.3	1569.7	1560.1	1548.8	1522.9	1507.7	1495.8
7.5°	1772.9	1774.3	1767.9	1762.7	1748.3	1732.1	1707.8	1681.9	1651.0	1618.9	1594.6
10°	1889.3	1893.8	1886.4	1885.3	1856.6	1838.5	1802.5	1772.1	1737.1	1698.2	1662.7
12.5°	2011.9	2005.6	2001.9	1977.8	1972.5	1939.5	1897.6	1866.3	1812.4	1767.7	1720.4
15°	2192.5	2180.1	2172.2	2138.9	2122.6	2077.0	2032.4	1998.1	1927.6	1860.5	1809.8
17.5°	2298.4	2310.9	2292.6	2278.9	2236.7	2204.7	2159.2	2087.0	2031.9	1948.6	1884.6
20°	2375.1	2376.2	2366.1	2352.0	2318.7	2278.2	2228.5	2149.6	2083.7	2000.8	1912.9
22.5°	2395.8	2396.1	2391.8	2378.6	2353.4	2320.5	2270.5	2204.7	2124.8	2034.7	1946.8
25°	2327.8	2325.5	2330.6	2345.2	2335.7	2325.5	2296.8	2247.7	2173.3	2078.0	1983.4
27.5°	2074.8	2090.3	2119.0	2155.1	2189.8	2216.3	2223.7	2213.7	2167.6	2089.2	1990.1
30°	1892.6	1911.8	1933.2	1969.3	2039.1	2079.2	2123.2	2156.4	2137.8	2075.3	1982.8
32.5°	1692.5	1697.2	1729.0	1770.0	1834.0	1911.0	1980.7	2048.2	2070.6	2037.8	1960.7
35°	1376.4	1384.2	1418.6	1459.2	1537.6	1631.7	1736.5	1830.1	1907.3	1938.3	1898.8
37.5°	1123.2	1145.8	1170.1	1213.7	1282.7	1367.4	1476.3	1597.4	1712.5	1789.6	1802.7
40°	1003.2	1017.3	1034.8	1068.0	1126.7	1210.1	1303.7	1442.3	1564.6	1675.1	1711.2
42.5°	908.6	916.8	927.5	957.6	1002.2	1085.2	1170.6	1292.6	1415.4	1547.4	1607.9
45°	772.2	780.6	798.7	816.1	849.9	907.4	986.9	1087.2	1210.6	1338.1	1449.6
47.5°	673.6	679.1	689.7	708.5	737.2	775.1	839.8	923.6	1038.0	1161.6	1280.5
50°	617.8	622.2	630.7	647.6	669.6	703.4	756.4	834.7	924.3	1048.9	1165.6
52.5°	573.6	575.4	581.6	593.0	610.5	639.0	682.4	747.2	830.5	941.6	1057.8
55°	505.0	507.3	512.9	521.4	536.5	554.6	587.8	636.3	709.1	805.4	906.3
57.5°	448.7	450.2	454.9	458.2	470.8	485.4	510.9	545.6	600.7	682.4	772.5
60°	412.5	411.5	417.1	419.9	428.4	440.8	460.5	493.7	541.6	607.6	690.4
62.5°	377.4	375.9	380.6	384.3	389.1	399.7	415.8	441.9	480.8	540.4	612.0
65°	324.7	322.4	325.2	329.7	334.2	339.9	351.7	374.8	405.8	448.7	503.3
67.5°	271.7	274.0	274.5	276.7	279.3	287.0	295.1	311.4	333.3	367.6	413.9
70°	240.1	240.7	243.0	243.0	244.6	251.4	258.1	267.7	289.1	320.7	358.5
72.5°	208.6	210.9	210.0	211.8	213.0	217.5	222.5	231.6	249.9	273.4	305.2
75°	162.3	164.0	164.0	164.6	166.2	168.0	171.9	178.6	191.6	209.1	231.1
77.5°	118.4	118.6	119.4	121.4	121.4	124.1	127.0	132.5	138.8	150.8	164.2
80°	91.3	92.5	91.9	93.0	93.0	95.2	96.4	103.1	106.0	113.8	124.6
82.5°	66.9	68.1	68.0	69.5	70.4	70.9	72.5	75.2	78.0	85.0	89.4
85°	33.8	35.0	33.8	35.0	36.6	37.2	38.9	39.5	41.7	43.4	47.4
87.5°	13.9	15.2	15.4	15.7	16.4	16.9	17.1	16.5	18.1	18.8	20.1
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°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1404.4	1398.0	1393.5	1389.9	1380.0	1374.1	1369.6	1363.3	1356.1	1348.4	1339.0
5°	1484.0	1464.8	1450.7	1429.4	1409.1	1392.1	1374.7	1358.9	1339.7	1318.9	1303.7
7.5°	1567.7	1539.3	1502.8	1471.0	1435.4	1404.4	1376.7	1348.3	1318.7	1290.1	1263.9
10°	1621.0	1584.4	1543.8	1495.8	1450.7	1410.7	1373.5	1337.5	1302.5	1267.5	1237.7
12.5°	1678.2	1632.6	1572.6	1516.6	1466.1	1412.6	1367.7	1323.5	1281.3	1244.6	1209.7
15°	1755.1	1689.1	1619.8	1544.9	1478.4	1415.8	1354.4	1298.6	1251.2	1202.7	1169.0
17.5°	1802.4	1720.8	1641.5	1563.2	1482.6	1403.8	1337.5	1273.1	1213.8	1165.7	1123.1
20°	1833.4	1752.3	1653.7	1575.3	1479.5	1398.3	1321.7	1250.1	1188.1	1136.9	1092.8
22.5°	1860.5	1766.8	1668.1	1565.0	1469.6	1383.5	1299.6	1227.6	1164.2	1110.2	1068.0
25°	1875.2	1767.5	1660.4	1557.9	1449.6	1347.6	1271.5	1187.0	1119.3	1062.4	1017.3
27.5°	1876.7	1761.6	1640.5	1526.5	1414.8	1319.8	1223.8	1148.2	1078.0	1017.8	974.5
30°	1871.8	1751.8	1621.5	1498.1	1385.9	1282.8	1199.4	1117.1	1045.5	985.8	940.7
32.5°	1856.0	1731.0	1597.2	1466.6	1350.3	1249.4	1163.4	1085.1	1015.3	956.4	909.1
35°	1810.4	1686.9	1544.3	1408.5	1289.6	1187.6	1109.8	1030.3	960.4	904.6	859.0
37.5°	1739.0	1627.4	1482.5	1341.9	1225.1	1122.6	1045.5	973.7	910.7	854.0	807.2
40°	1676.7	1578.7	1433.3	1296.3	1170.1	1072.6	1000.5	934.5	872.0	818.4	773.9
42.5°	1605.1	1519.6	1385.5	1240.4	1118.7	1020.8	950.4	891.2	832.3	782.8	738.3
45°	1477.2	1420.9	1294.6	1160.5	1033.7	941.3	874.2	822.3	772.7	724.2	687.1
47.5°	1330.2	1302.3	1196.0	1068.6	948.3	857.1	799.0	751.1	707.6	666.5	633.7
50°	1231.5	1218.0	1126.1	1003.2	888.3	802.6	744.0	702.9	665.6	629.6	598.6
52.5°	1134.1	1133.7	1050.8	938.3	831.9	749.4	691.2	652.8	620.5	591.3	563.4
55°	985.2	1001.0	936.2	835.8	740.6	666.2	613.8	579.4	556.8	532.6	511.8
57.5°	848.5	874.7	821.2	732.8	653.4	584.8	539.2	513.3	489.3	474.7	459.5
60°	759.2	784.0	742.3	667.9	593.0	534.3	490.9	467.8	446.9	436.8	426.1
62.5°	679.9	702.0	671.1	602.1	537.0	480.6	444.0	421.8	407.7	396.6	389.6
65°	566.5	585.1	558.6	508.4	452.6	407.5	377.6	360.1	346.7	342.1	334.2
67.5°	457.9	474.8	460.5	417.8	373.1	339.0	315.6	298.8	290.8	286.9	281.3
70°	393.4	410.3	395.1	357.9	323.5	294.8	272.8	263.2	254.8	253.1	245.2
72.5°	338.8	350.3	335.2	306.1	276.6	252.4	235.4	225.3	220.9	217.9	213.6
75°	254.2	264.3	254.2	231.6	210.8	193.9	179.2	175.3	170.2	168.5	165.7
77.5°	179.9	188.7	180.9	166.8	151.2	138.2	130.3	125.2	124.1	121.2	122.5
80°	137.5	143.2	135.8	126.3	113.8	104.8	99.2	96.4	93.0	91.9	94.1
82.5°	98.7	101.3	97.5	91.1	81.9	76.0	72.2	68.9	68.2	68.4	68.4
85°	51.3	50.7	50.1	44.5	41.7	37.7	35.5	35.0	34.4	35.5	36.6
87.5°	19.8	20.2	18.7	16.9	15.3	13.8	12.7	11.9	12.7	13.8	14.4
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: P332663-930

CATALOG NUMBER: SA4XXDIP-C1020D1205U930-4F0-1E-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: P332663-930

CATALOG NUMBER: SA4XXDIP-C1020D1205U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1334.4	1330.4	1324.5	1316.4	1309.6	1302.4	1300.6	1297.9	1303.3	1298.8	1297.5
5°	1290.7	1278.9	1263.6	1246.2	1236.0	1221.4	1218.5	1212.9	1207.3	1206.7	1201.1
7.5°	1244.4	1227.0	1207.1	1189.3	1172.8	1156.7	1146.3	1144.0	1135.7	1130.8	1125.2
10°	1214.6	1193.2	1170.1	1153.2	1134.0	1117.1	1105.3	1098.5	1092.8	1086.6	1081.0
12.5°	1179.4	1156.7	1137.6	1119.3	1096.6	1083.7	1064.2	1052.5	1051.4	1051.5	1036.8
15°	1138.5	1116.0	1086.6	1060.7	1048.3	1023.5	1012.8	999.3	990.8	982.4	975.7
17.5°	1091.8	1063.6	1040.8	1011.1	987.3	967.6	953.6	945.4	932.7	920.7	912.1
20°	1062.4	1032.6	1008.3	976.7	950.8	926.6	914.8	903.5	893.9	883.8	874.2
22.5°	1032.7	1001.4	971.8	941.1	917.0	891.4	880.0	864.7	855.6	849.9	840.3
25°	985.8	951.9	918.1	888.8	864.1	841.5	826.3	814.4	804.3	799.8	793.6
27.5°	934.8	901.2	868.5	835.3	807.1	790.8	778.6	769.6	763.9	757.8	755.0
30°	902.4	867.4	832.5	801.4	775.5	759.2	748.0	741.8	737.2	734.4	731.6
32.5°	869.4	834.9	798.2	769.9	746.7	732.1	723.6	717.4	715.1	714.1	713.1
35°	816.7	781.7	748.0	722.6	700.6	695.0	687.6	684.2	683.1	687.1	688.8
37.5°	765.6	733.2	702.1	677.4	663.1	654.8	652.3	652.5	656.5	660.0	664.1
40°	732.7	701.2	671.8	650.4	636.9	631.9	630.7	633.5	638.1	642.0	646.5
42.5°	700.7	669.6	642.9	622.9	613.4	608.8	609.5	612.3	618.6	623.5	630.2
45°	651.0	625.1	599.2	582.8	574.9	576.0	576.0	581.1	587.3	594.6	601.9
47.5°	604.2	578.0	556.8	543.0	538.9	537.9	541.1	547.7	556.6	565.7	575.9
50°	572.7	547.8	529.2	516.8	512.3	514.0	518.5	524.7	535.4	546.7	557.4
52.5°	540.6	518.0	500.8	489.3	486.2	489.3	493.7	503.5	512.9	525.1	538.0
55°	490.9	471.7	458.2	449.8	448.7	450.4	455.4	466.1	479.6	494.9	507.3
57.5°	441.4	425.4	413.0	407.2	407.7	409.3	417.7	430.4	444.8	461.1	477.0
60°	408.1	393.4	383.3	378.8	379.3	382.7	392.8	404.7	422.7	438.5	455.4
62.5°	376.5	363.6	353.9	349.9	349.1	356.5	366.2	378.5	396.6	414.2	432.4
65°	325.8	315.6	307.8	305.5	307.2	312.8	325.2	341.5	356.8	375.4	394.5
67.5°	276.1	267.8	262.4	263.4	265.5	273.8	284.2	298.2	315.5	334.8	353.8
70°	244.6	236.7	232.2	232.8	236.2	246.3	255.4	269.4	288.0	307.8	323.5
72.5°	212.1	206.9	202.9	205.3	208.6	215.6	226.9	241.0	257.4	275.7	292.4
75°	162.9	162.9	160.6	162.3	167.4	174.1	182.6	197.3	213.6	228.3	241.8
77.5°	120.8	119.6	121.1	123.1	126.0	134.0	143.7	154.2	166.5	181.2	192.3
80°	92.5	93.0	95.8	99.2	100.4	106.6	116.7	126.3	135.8	148.2	158.9
82.5°	69.5	70.0	71.5	75.7	76.9	83.6	90.1	99.6	108.4	116.7	125.6
85°	37.7	37.7	40.6	42.2	45.1	49.6	53.6	59.2	67.1	72.7	81.1
87.5°	16.0	16.0	18.9	19.8	21.5	24.1	24.9	30.0	32.0	34.5	38.5
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: P332663-930

CATALOG NUMBER: SA4XXDIP-C1020D1205U930-4F0-1E-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: P332663-930

CATALOG NUMBER: SA4XXDIP-C1020D1205U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1296.6	1295.7	1292.5	1292.1	1292.5	1295.7	1296.6	1297.5	1298.8	1303.3	1297.9
5°	1197.7	1194.9	1193.2	1199.4	1193.2	1194.9	1197.7	1201.1	1206.7	1207.3	1212.9
7.5°	1123.2	1121.0	1116.0	1114.4	1116.0	1121.0	1123.2	1125.2	1130.8	1135.7	1144.0
10°	1075.4	1073.1	1068.6	1067.5	1068.6	1073.1	1075.4	1081.0	1086.6	1092.8	1098.5
12.5°	1029.4	1024.9	1024.0	1025.1	1024.0	1024.9	1029.4	1036.8	1051.5	1051.4	1052.5
15°	968.3	966.0	959.9	961.6	959.9	966.0	968.3	975.7	982.4	990.8	999.3
17.5°	908.1	905.4	897.9	904.5	897.9	905.4	908.1	912.1	920.7	932.7	945.4
20°	870.3	865.7	861.8	861.2	861.8	865.7	870.3	874.2	883.8	893.9	903.5
22.5°	834.1	830.1	829.7	826.1	829.7	830.1	834.1	840.3	849.9	855.6	864.7
25°	789.0	785.1	784.0	781.2	784.0	785.1	789.0	793.6	799.8	804.3	814.4
27.5°	754.5	752.5	750.5	751.4	750.5	752.5	754.5	755.0	757.8	763.9	769.6
30°	733.3	732.7	731.6	731.6	731.6	732.7	733.3	731.6	734.4	737.2	741.8
32.5°	715.7	715.6	716.2	716.2	716.2	715.6	715.7	713.1	714.1	715.1	717.4
35°	691.0	692.7	693.8	692.1	693.8	692.7	691.0	688.8	687.1	683.1	684.2
37.5°	668.7	670.3	672.0	673.8	672.0	670.3	668.7	664.1	660.0	656.5	652.5
40°	651.5	655.5	656.6	659.4	656.6	655.5	651.5	646.5	642.0	638.1	633.5
42.5°	635.3	639.7	642.6	643.2	642.6	639.7	635.3	630.2	623.5	618.6	612.3
45°	610.4	614.9	618.9	618.9	618.9	614.9	610.4	601.9	594.6	587.3	581.1
47.5°	584.6	591.1	595.1	596.1	595.1	591.1	584.6	575.9	565.7	556.6	547.7
50°	567.0	574.9	578.9	581.6	578.9	574.9	567.0	557.4	546.7	535.4	524.7
52.5°	549.8	557.7	563.0	564.5	563.0	557.7	549.8	538.0	525.1	512.9	503.5
55°	520.2	531.5	537.7	540.0	537.7	531.5	520.2	507.3	494.9	479.6	466.1
57.5°	492.3	502.6	509.9	511.5	509.9	502.6	492.3	477.0	461.1	444.8	430.4
60°	470.6	481.9	490.9	492.6	490.9	481.9	470.6	455.4	438.5	422.7	404.7
62.5°	448.5	460.2	468.4	472.8	468.4	460.2	448.5	432.4	414.2	396.6	378.5
65°	410.3	422.2	430.1	431.7	430.1	422.2	410.3	394.5	375.4	356.8	341.5
67.5°	368.6	380.4	385.6	388.9	385.6	380.4	368.6	353.8	334.8	315.5	298.2
70°	339.3	348.9	354.5	357.3	354.5	348.9	339.3	323.5	307.8	288.0	269.4
72.5°	305.9	315.9	322.5	323.1	322.5	315.9	305.9	292.4	275.7	257.4	241.0
75°	254.8	263.7	267.2	267.2	267.2	263.7	254.8	241.8	228.3	213.6	197.3
77.5°	201.6	206.3	210.6	211.5	210.6	206.3	201.6	192.3	181.2	166.5	154.2
80°	167.4	170.2	173.6	173.6	173.6	170.2	167.4	158.9	148.2	135.8	126.3
82.5°	132.2	134.6	137.9	137.5	137.9	134.6	132.2	125.6	116.7	108.4	99.6
85°	80.1	85.1	84.5	83.4	84.5	85.1	80.1	81.1	72.7	67.1	59.2
87.5°	40.0	40.7	41.8	42.7	41.8	40.7	40.0	38.5	34.5	32.0	30.0
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: P332663-930

CATALOG NUMBER: SA4XXDIP-C1020D1205U930-4F0-1E-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: P332663-930

CATALOG NUMBER: SA4XXDIP-C1020D1205U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1300.6	1302.4	1309.6	1316.4	1324.5	1330.4	1334.4	1339.0	1348.4	1356.1	1363.3
5°	1218.5	1221.4	1236.0	1246.2	1263.6	1278.9	1290.7	1303.7	1318.9	1339.7	1358.9
7.5°	1146.3	1156.7	1172.8	1189.3	1207.1	1227.0	1244.4	1263.9	1290.1	1318.7	1348.3
10°	1105.3	1117.1	1134.0	1153.2	1170.1	1193.2	1214.6	1237.7	1267.5	1302.5	1337.5
12.5°	1064.2	1083.7	1096.6	1119.3	1137.6	1156.7	1179.4	1209.7	1244.6	1281.3	1323.5
15°	1012.8	1023.5	1048.3	1060.7	1086.6	1116.0	1138.5	1169.0	1202.7	1251.2	1298.6
17.5°	953.6	967.6	987.3	1011.1	1040.8	1063.6	1091.8	1123.1	1165.7	1213.8	1273.1
20°	914.8	926.6	950.8	976.7	1008.3	1032.6	1062.4	1092.8	1136.9	1188.1	1250.1
22.5°	880.0	891.4	917.0	941.1	971.8	1001.4	1032.7	1068.0	1110.2	1164.2	1227.6
25°	826.3	841.5	864.1	888.8	918.1	951.9	985.8	1017.3	1062.4	1119.3	1187.0
27.5°	778.6	790.8	807.1	835.3	868.5	901.2	934.8	974.5	1017.8	1078.0	1148.2
30°	748.0	759.2	775.5	801.4	832.5	867.4	902.4	940.7	985.8	1045.5	1117.1
32.5°	723.6	732.1	746.7	769.9	798.2	834.9	869.4	909.1	956.4	1015.3	1085.1
35°	687.6	695.0	700.6	722.6	748.0	781.7	816.7	859.0	904.6	960.4	1030.3
37.5°	652.3	654.8	663.1	677.4	702.1	733.2	765.6	807.2	854.0	910.7	973.7
40°	630.7	631.9	636.9	650.4	671.8	701.2	732.7	773.9	818.4	872.0	934.5
42.5°	609.5	608.8	613.4	622.9	642.9	669.6	700.7	738.3	782.8	832.3	891.2
45°	576.0	576.0	574.9	582.8	599.2	625.1	651.0	687.1	724.2	772.7	822.3
47.5°	541.1	537.9	538.9	543.0	556.8	578.0	604.2	633.7	666.5	707.6	751.1
50°	518.5	514.0	512.3	516.8	529.2	547.8	572.7	598.6	629.6	665.6	702.9
52.5°	493.7	489.3	486.2	489.3	500.8	518.0	540.6	563.4	591.3	620.5	652.8
55°	455.4	450.4	448.7	449.8	458.2	471.7	490.9	511.8	532.6	556.8	579.4
57.5°	417.7	409.3	407.7	407.2	413.0	425.4	441.4	459.5	474.7	489.3	513.3
60°	392.8	382.7	379.3	378.8	383.3	393.4	408.1	426.1	436.8	446.9	467.8
62.5°	366.2	356.5	349.1	349.9	353.9	363.6	376.5	389.6	396.6	407.7	421.8
65°	325.2	312.8	307.2	305.5	307.8	315.6	325.8	334.2	342.1	346.7	360.1
67.5°	284.2	273.8	265.5	263.4	262.4	267.8	276.1	281.3	286.9	290.8	298.8
70°	255.4	246.3	236.2	232.8	232.2	236.7	244.6	245.2	253.1	254.8	263.2
72.5°	226.9	215.6	208.6	205.3	202.9	206.9	212.1	213.6	217.9	220.9	225.3
75°	182.6	174.1	167.4	162.3	160.6	162.9	162.9	165.7	168.5	170.2	175.3
77.5°	143.7	134.0	126.0	123.1	121.1	119.6	120.8	122.5	121.2	124.1	125.2
80°	116.7	106.6	100.4	99.2	95.8	93.0	92.5	94.1	91.9	93.0	96.4
82.5°	90.1	83.6	76.9	75.7	71.5	70.0	69.5	68.4	68.4	68.2	68.9
85°	53.6	49.6	45.1	42.2	40.6	37.7	37.7	36.6	35.5	34.4	35.0
87.5°	24.9	24.1	21.5	19.8	18.9	16.0	16.0	14.4	13.8	12.7	11.9
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: P332663-930

CATALOG NUMBER: SA4XXDIP-C1020D1205U930-4F0-1E-UDD-A4

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: P332663-930

CATALOG NUMBER: SA4XXDIP-C1020D1205U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1369.6	1374.1	1380.0	1389.9	1393.5	1398.0	1404.4	1403.9	1405.7	1412.4	1426.9
5°	1374.7	1392.1	1409.1	1429.4	1450.7	1464.8	1484.0	1495.8	1507.7	1522.9	1548.8
7.5°	1376.7	1404.4	1435.4	1471.0	1502.8	1539.3	1567.7	1594.6	1618.9	1651.0	1681.9
10°	1373.5	1410.7	1450.7	1495.8	1543.8	1584.4	1621.0	1662.7	1698.2	1737.1	1772.1
12.5°	1367.7	1412.6	1466.1	1516.6	1572.6	1632.6	1678.2	1720.4	1767.7	1812.4	1866.3
15°	1354.4	1415.8	1478.4	1544.9	1619.8	1689.1	1755.1	1809.8	1860.5	1927.6	1998.1
17.5°	1337.5	1403.8	1482.6	1563.2	1641.5	1720.8	1802.4	1884.6	1948.6	2031.9	2087.0
20°	1321.7	1398.3	1479.5	1575.3	1653.7	1752.3	1833.4	1912.9	2000.8	2083.7	2149.6
22.5°	1299.6	1383.5	1469.6	1565.0	1668.1	1766.8	1860.5	1946.8	2034.7	2124.8	2204.7
25°	1271.5	1347.6	1449.6	1557.9	1660.4	1767.5	1875.2	1983.4	2078.0	2173.3	2247.7
27.5°	1223.8	1319.8	1414.8	1526.5	1640.5	1761.6	1876.7	1990.1	2089.2	2167.6	2213.7
30°	1199.4	1282.8	1385.9	1498.1	1621.5	1751.8	1871.8	1982.8	2075.3	2137.8	2156.4
32.5°	1163.4	1249.4	1350.3	1466.6	1597.2	1731.0	1856.0	1960.7	2037.8	2070.6	2048.2
35°	1109.8	1187.6	1289.6	1408.5	1544.3	1686.9	1810.4	1898.8	1938.3	1907.3	1830.1
37.5°	1045.5	1122.6	1225.1	1341.9	1482.5	1627.4	1739.0	1802.7	1789.6	1712.5	1597.4
40°	1000.5	1072.6	1170.1	1296.3	1433.3	1578.7	1676.7	1711.2	1675.1	1564.6	1442.3
42.5°	950.4	1020.8	1118.7	1240.4	1385.5	1519.6	1605.1	1607.9	1547.4	1415.4	1292.6
45°	874.2	941.3	1033.7	1160.5	1294.6	1420.9	1477.2	1449.6	1338.1	1210.6	1087.2
47.5°	799.0	857.1	948.3	1068.6	1196.0	1302.3	1330.2	1280.5	1161.6	1038.0	923.6
50°	744.0	802.6	888.3	1003.2	1126.1	1218.0	1231.5	1165.6	1048.9	924.3	834.7
52.5°	691.2	749.4	831.9	938.3	1050.8	1133.7	1134.1	1057.8	941.6	830.5	747.2
55°	613.8	666.2	740.6	835.8	936.2	1001.0	985.2	906.3	805.4	709.1	636.3
57.5°	539.2	584.8	653.4	732.8	821.2	874.7	848.5	772.5	682.4	600.7	545.6
60°	490.9	534.3	593.0	667.9	742.3	784.0	759.2	690.4	607.6	541.6	493.7
62.5°	444.0	480.6	537.0	602.1	671.1	702.0	679.9	612.0	540.4	480.8	441.9
65°	377.6	407.5	452.6	508.4	558.6	585.1	566.5	503.3	448.7	405.8	374.8
67.5°	315.6	339.0	373.1	417.8	460.5	474.8	457.9	413.9	367.6	333.3	311.4
70°	272.8	294.8	323.5	357.9	395.1	410.3	393.4	358.5	320.7	289.1	267.7
72.5°	235.4	252.4	276.6	306.1	335.2	350.3	338.8	305.2	273.4	249.9	231.6
75°	179.2	193.9	210.8	231.6	254.2	264.3	254.2	231.1	209.1	191.6	178.6
77.5°	130.3	138.2	151.2	166.8	180.9	188.7	179.9	164.2	150.8	138.8	132.5
80°	99.2	104.8	113.8	126.3	135.8	143.2	137.5	124.6	113.8	106.0	103.1
82.5°	72.2	76.0	81.9	91.1	97.5	101.3	98.7	89.4	85.0	78.0	75.2
85°	35.5	37.7	41.7	44.5	50.1	50.7	51.3	47.4	43.4	41.7	39.5
87.5°	12.7	13.8	15.3	16.9	18.7	20.2	19.8	20.1	18.8	18.1	16.5
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°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1434.1	1435.0	1439.0	1442.2	1443.1	1447.6	1448.1
5°	1560.1	1569.7	1588.3	1590.0	1592.8	1607.4	1596.2
7.5°	1707.8	1732.1	1748.3	1762.7	1767.9	1774.3	1772.9
10°	1802.5	1838.5	1856.6	1885.3	1886.4	1893.8	1889.3
12.5°	1897.6	1939.5	1972.5	1977.8	2001.9	2005.6	2011.9
15°	2032.4	2077.0	2122.6	2138.9	2172.2	2180.1	2192.5
17.5°	2159.2	2204.7	2236.7	2278.9	2292.6	2310.9	2298.4
20°	2228.5	2278.2	2318.7	2352.0	2366.1	2376.2	2375.1
22.5°	2270.5	2320.5	2353.4	2378.6	2391.8	2396.1	2395.8
25°	2296.8	2325.5	2335.7	2345.2	2330.6	2325.5	2327.8
27.5°	2223.7	2216.3	2189.8	2155.1	2119.0	2090.3	2074.8
30°	2123.2	2079.2	2039.1	1969.3	1933.2	1911.8	1892.6
32.5°	1980.7	1911.0	1834.0	1770.0	1729.0	1697.2	1692.5
35°	1736.5	1631.7	1537.6	1459.2	1418.6	1384.2	1376.4
37.5°	1476.3	1367.4	1282.7	1213.7	1170.1	1145.8	1123.2
40°	1303.7	1210.1	1126.7	1068.0	1034.8	1017.3	1003.2
42.5°	1170.6	1085.2	1002.2	957.6	927.5	916.8	908.6
45°	986.9	907.4	849.9	816.1	798.7	780.6	772.2
47.5°	839.8	775.1	737.2	708.5	689.7	679.1	673.6
50°	756.4	703.4	669.6	647.6	630.7	622.2	617.8
52.5°	682.4	639.0	610.5	593.0	581.6	575.4	573.6
55°	587.8	554.6	536.5	521.4	512.9	507.3	505.0
57.5°	510.9	485.4	470.8	458.2	454.9	450.2	448.7
60°	460.5	440.8	428.4	419.9	417.1	411.5	412.5
62.5°	415.8	399.7	389.1	384.3	380.6	375.9	377.4
65°	351.7	339.9	334.2	329.7	325.2	322.4	324.7
67.5°	295.1	287.0	279.3	276.7	274.5	274.0	271.7
70°	258.1	251.4	244.6	243.0	243.0	240.7	240.1
72.5°	222.5	217.5	213.0	211.8	210.0	210.9	208.6
75°	171.9	168.0	166.2	164.6	164.0	164.0	162.3
77.5°	127.0	124.1	121.4	121.4	119.4	118.6	118.4
80°	96.4	95.2	93.0	93.0	91.9	92.5	91.3
82.5°	72.5	70.9	70.4	69.5	68.0	68.1	66.9
85°	38.9	37.2	36.6	35.0	33.8	35.0	33.8
87.5°	17.1	16.9	16.4	15.7	15.4	15.2	13.9
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)