

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: P332350-940

Luminaire Tested: **S123RDIP-S1000D1025U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332350-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S1000D1025U940-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6841.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

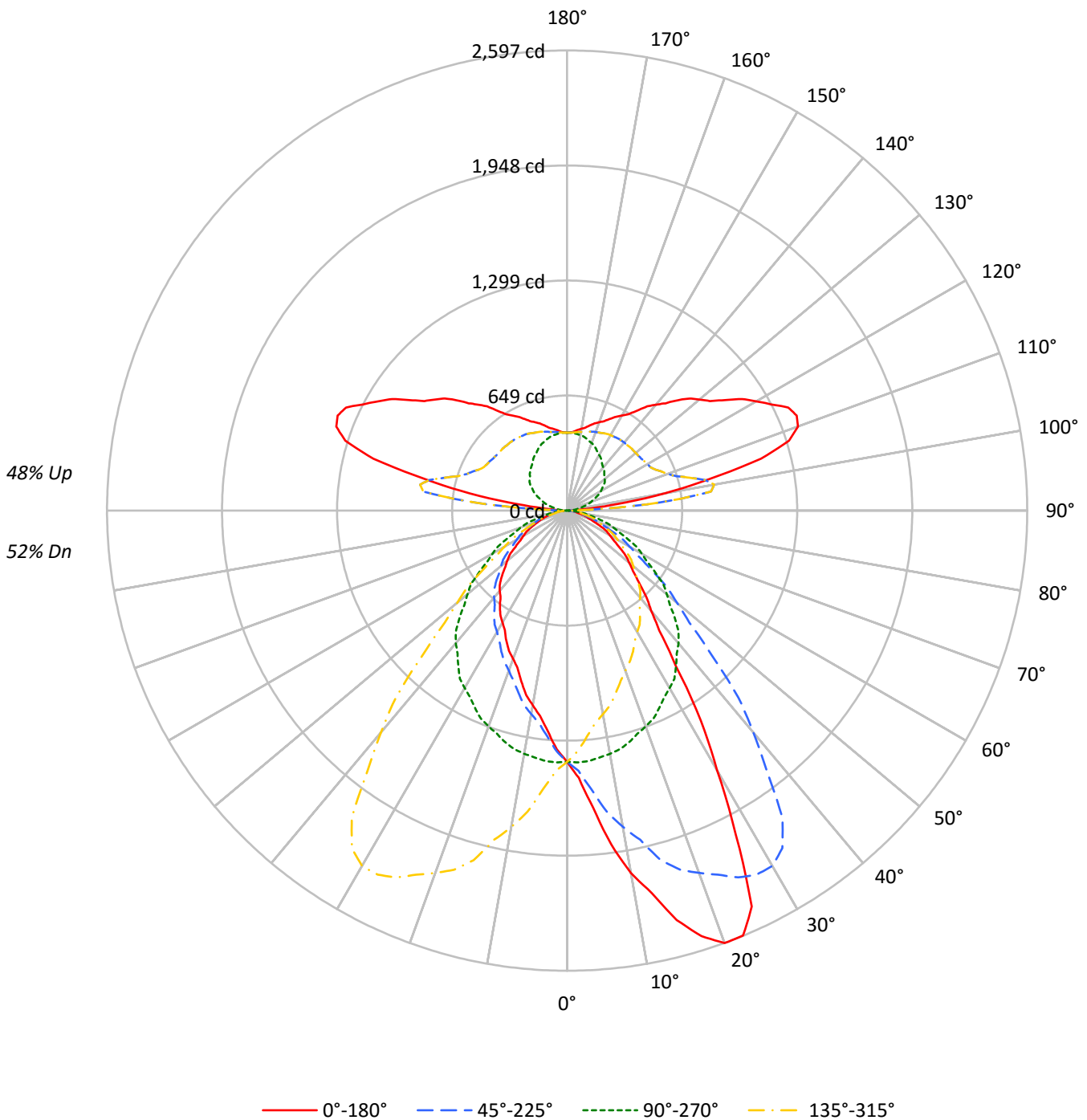
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	91	88	91	88	85	82	75	72	70		63	61	60		52	51	50	45
2	90	83	78	73	83	77	72	68	66	62	59		56	53	51		46	45	43	38
3	83	74	67	61	76	69	63	58	59	54	51		50	47	44		42	39	37	33
4	76	66	58	52	70	61	55	49	53	48	44		45	41	38		38	35	33	29
5	70	59	51	45	65	55	48	43	47	42	38		41	36	33		34	31	29	26
6	65	53	45	39	60	50	43	37	43	37	33		37	33	29		31	28	26	23
7	60	48	40	35	55	45	38	33	39	34	30		34	29	26		29	25	23	20
8	56	44	36	31	52	41	34	29	36	30	26		31	27	24		26	23	21	18
9	52	40	33	28	48	38	31	26	33	28	24		29	24	21		24	21	19	17
10	49	37	30	25	45	35	28	24	30	25	22		26	22	19		23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15259	15259	15259	15259
5°	18189	15324	13493	15324
10°	22710	15235	12191	15235
15°	26658	15081	11117	15081
20°	29751	14848	10204	14848
25°	29276	14602	9644	14602
30°	21044	14375	9066	14375
35°	14051	14082	8692	14082
40°	10352	13728	8304	13728
45°	8683	13108	7926	13108
50°	7661	12295	7398	12295
55°	6718	11365	6673	11365
60°	5983	10478	6114	10478
65°	5254	9521	5687	9521
70°	4126	8670	5196	8670
75°	3635	7573	4741	7573
80°	3161	6434	4668	6434
85°	2544	5175	4940	5175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	2.0
10°-20°	435.5	6.4
20°-30°	684.2	10.0
30°-40°	713.8	10.4
40°-50°	610.9	8.9
50°-60°	465.6	6.8
60°-70°	298.4	4.4
70°-80°	143.6	2.1
80°-90°	41.4	0.6
90°-100°	244.7	3.6
100°-110°	692.9	10.1
110°-120°	681.6	10.0
120°-130°	543.7	7.9
130°-140°	428.7	6.3
140°-150°	319.9	4.7
150°-160°	223.0	3.3
160°-170°	131.0	1.9
170°-180°	42.6	0.6
0°-30°	1259.1	18.4
0°-40°	1973.0	28.8
0°-60°	3049.5	44.6
0°-90°	3532.9	51.6
90°-120°	1619.2	23.7
90°-150°	2911.5	42.6
90°-180°	3308.0	48.4
0°-180°	6841.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1683	1418	1249	1418	1683	174
15°	2392	1353	998	1353	2392	678
25°	2465	1230	812	1230	2465	1059
35°	1069	1072	662	1072	1069	701
45°	570	861	521	861	570	449
55°	358	606	356	606	358	324
65°	206	374	223	374	206	203
75°	87	182	114	182	87	94
85°	21	42	40	42	21	24
90°	26	2	26	2	26	14
95°	103	30	103	30	103	186
105°	1132	103	1132	103	1132	1117
115°	1377	182	1377	182	1377	1338
125°	1086	254	1086	254	1086	984
135°	880	297	880	297	880	683
145°	688	339	688	339	688	438
155°	570	385	570	385	570	266
165°	498	421	498	421	498	142
175°	448	439	448	439	448	43
180°	440	440	440	440	440	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1509.8	1511.7	1505.5	1504.5	1497.2	1495.2	1495.2	1485.1	1478.7	1470.5	1465.6
5°	1683.4	1693.1	1688.2	1677.3	1659.1	1654.8	1643.3	1625.1	1604.5	1579.0	1566.8
7.5°	1900.1	1913.3	1908.3	1891.4	1872.3	1856.9	1824.4	1794.2	1751.9	1714.7	1682.9
10°	2077.8	2063.9	2052.9	2036.6	2018.9	1990.4	1956.4	1909.7	1855.7	1813.2	1765.9
12.5°	2210.8	2208.5	2194.7	2177.8	2152.9	2125.8	2084.1	2027.2	1964.4	1903.1	1848.9
15°	2392.2	2395.8	2386.7	2369.1	2333.9	2286.0	2222.9	2199.2	2109.3	2042.6	1975.9
17.5°	2517.7	2516.9	2515.7	2491.4	2455.4	2421.3	2362.8	2300.5	2219.2	2125.1	2035.2
20°	2597.3	2591.2	2592.4	2565.1	2538.4	2498.9	2442.0	2351.5	2284.7	2176.1	2083.3
22.5°	2595.3	2594.1	2598.7	2589.3	2570.0	2539.8	2494.8	2418.5	2333.3	2223.7	2119.2
25°	2465.0	2460.1	2488.7	2496.5	2527.5	2532.9	2519.6	2477.7	2397.0	2284.1	2154.9
27.5°	2063.0	2060.3	2113.3	2179.5	2263.5	2328.8	2391.9	2422.4	2397.0	2316.2	2186.7
30°	1693.1	1750.2	1776.8	1872.7	1979.5	2106.9	2218.6	2324.8	2350.9	2315.7	2209.5
32.5°	1405.7	1455.5	1477.7	1560.0	1659.6	1808.8	1976.4	2126.7	2232.9	2259.9	2195.9
35°	1069.3	1069.9	1120.8	1157.3	1249.5	1403.0	1565.7	1767.1	1967.4	2119.1	2134.8
37.5°	853.2	856.2	887.1	923.4	992.6	1073.7	1216.9	1384.5	1615.8	1848.7	1985.2
40°	736.7	742.2	765.3	801.0	850.8	912.0	1023.8	1181.5	1374.5	1633.6	1845.4
42.5°	661.9	670.8	682.7	710.2	741.1	798.4	888.8	1010.7	1186.2	1431.2	1675.5
45°	570.4	575.2	584.4	597.1	625.0	665.1	725.8	807.7	953.3	1150.6	1395.1
47.5°	503.2	500.6	510.2	520.6	539.1	566.4	607.1	674.0	777.8	936.1	1143.5
50°	457.5	456.9	463.6	471.5	489.1	509.2	542.5	592.9	675.4	806.5	996.4
52.5°	414.8	417.1	421.9	431.7	444.4	460.6	490.5	526.8	597.7	710.9	869.2
55°	358.0	359.9	366.5	372.0	381.1	397.4	416.3	446.7	495.2	574.1	704.5
57.5°	310.0	309.2	315.6	316.9	327.2	340.5	355.1	378.7	413.8	472.5	560.4
60°	277.9	276.1	281.6	285.8	291.3	302.2	314.3	337.4	365.3	408.4	483.7
62.5°	248.8	248.0	252.0	256.2	260.7	270.6	280.9	298.5	320.7	357.0	416.7
65°	206.3	208.1	210.0	211.8	214.2	220.3	230.0	242.1	257.3	282.8	325.8
67.5°	162.1	164.0	164.6	168.4	173.5	177.4	183.2	194.0	204.6	226.1	250.7
70°	131.1	130.5	131.1	132.9	139.6	146.2	154.2	162.0	168.7	183.9	204.5
72.5°	112.6	111.6	113.2	113.5	116.7	118.6	123.6	131.0	139.6	149.9	164.7
75°	87.4	87.4	87.4	87.4	89.8	91.0	92.8	94.7	97.7	102.5	113.5
77.5°	64.6	64.6	65.5	66.2	66.6	67.3	68.5	70.3	71.3	73.9	78.6
80°	51.0	51.5	51.0	51.5	51.5	52.8	53.4	55.2	55.8	58.9	60.7
82.5°	38.3	38.0	38.3	39.0	39.0	40.2	40.3	41.6	41.7	43.3	45.1
85°	20.6	19.4	20.6	20.1	21.2	20.1	20.6	21.8	21.8	22.5	24.9
87.5°	10.0	11.1	10.0	10.3	10.5	10.6	10.4	10.3	11.1	10.8	10.7
90°	25.8	26.7	25.8	24.9	25.8	24.1	23.2	22.3	21.4	22.3	19.6
92.5°	42.9	44.5	43.6	46.3	47.9	52.5	59.5	74.9	103.3	136.9	150.6
95°	103.3	106.8	113.1	121.1	137.9	170.0	217.2	320.4	428.1	527.8	469.9
97.5°	281.1	288.7	312.8	352.8	418.5	525.0	639.8	798.8	875.1	818.0	598.9
100°	558.1	557.2	591.9	656.9	746.8	873.2	977.3	1049.5	1018.2	842.9	569.6
102.5°	818.7	839.2	868.2	919.6	989.6	1069.7	1130.4	1132.7	1025.4	796.7	526.9
105°	1132.2	1136.7	1165.1	1198.9	1239.9	1263.0	1246.2	1157.1	971.1	715.6	474.4
107.5°	1312.7	1320.9	1330.5	1341.9	1341.2	1309.5	1231.5	1087.0	876.0	644.1	441.0
110°	1386.8	1388.6	1390.4	1383.2	1358.3	1295.9	1183.8	1020.0	816.2	603.5	428.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1401.7	1401.3	1394.5	1372.5	1327.0	1246.8	1121.1	953.8	764.2	576.4	421.0
115°	1377.0	1372.5	1354.7	1315.5	1248.8	1151.7	1020.9	866.0	701.4	547.4	418.3
117.5°	1298.2	1292.3	1266.6	1221.7	1152.1	1053.6	936.2	802.5	663.4	530.3	419.9
120°	1232.8	1227.4	1206.0	1156.2	1085.9	996.0	889.2	769.0	643.5	522.5	422.8
122.5°	1171.5	1164.8	1141.3	1096.4	1033.9	950.5	851.5	742.7	627.1	517.5	427.8
125°	1085.9	1079.7	1057.4	1018.2	961.3	890.1	804.7	707.7	606.2	511.0	435.2
127.5°	1015.4	1009.7	989.6	956.1	905.4	840.6	763.5	677.0	587.6	507.7	443.8
130°	975.5	968.4	949.8	917.7	870.5	809.9	737.9	657.8	577.7	505.6	449.5
132.5°	936.4	931.4	914.8	882.8	838.5	780.8	713.6	640.0	568.4	504.9	453.8
135°	880.3	874.1	858.0	831.3	787.7	737.0	679.1	615.9	556.3	503.8	460.2
137.5°	821.0	816.9	803.4	776.3	739.7	695.7	645.9	594.1	545.8	501.9	464.4
140°	779.7	780.6	766.3	741.5	707.7	669.3	626.6	581.2	539.4	501.1	467.3
142.5°	741.3	742.2	729.3	707.3	678.4	645.2	608.1	569.1	533.7	499.7	469.4
145°	688.0	686.3	679.1	660.4	638.2	612.3	583.9	554.6	526.0	497.6	470.8
147.5°	644.3	643.5	636.8	624.1	607.3	588.9	565.9	542.6	518.5	494.2	470.8
150°	618.6	618.6	613.2	603.5	590.1	573.2	554.6	534.0	513.5	491.3	470.8
152.5°	597.3	597.3	594.1	585.0	574.4	560.4	543.9	526.2	507.9	487.8	468.7
155°	570.5	569.6	567.8	560.8	552.8	542.1	528.7	514.4	499.4	481.5	466.4
157.5°	546.2	546.4	544.9	539.6	532.6	524.2	513.9	502.0	489.7	476.0	463.4
160°	530.5	531.4	531.4	526.0	519.8	513.5	504.7	494.9	483.3	471.7	462.0
162.5°	516.2	517.1	517.1	512.6	508.5	502.9	494.7	486.3	476.9	467.4	459.1
165°	497.6	497.6	498.5	494.9	491.3	486.9	480.6	475.3	468.1	461.1	454.9
167.5°	479.7	479.7	480.6	478.1	476.5	473.3	469.8	465.7	459.9	454.7	450.6
170°	469.0	469.0	469.9	468.1	467.3	465.5	462.0	459.3	454.9	450.4	447.7
172.5°	459.1	459.9	461.5	459.7	459.5	458.4	455.6	453.6	449.9	446.8	445.6
175°	447.7	448.6	449.5	448.6	448.6	448.6	446.8	445.9	444.2	442.4	442.4
177.5°	441.1	441.1	442.6	441.8	442.6	442.6	441.8	441.1	440.4	439.7	440.4
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1463.7	1462.2	1455.5	1447.7	1437.4	1430.7	1425.3	1422.5	1413.7	1403.0	1395.7
5°	1554.1	1535.9	1516.5	1492.8	1471.0	1448.5	1434.6	1418.2	1398.1	1375.7	1359.9
7.5°	1651.0	1615.2	1576.8	1537.1	1497.9	1462.8	1431.6	1405.1	1373.1	1341.0	1318.4
10°	1725.3	1673.0	1619.1	1563.8	1513.4	1466.2	1429.7	1393.9	1355.7	1318.7	1290.8
12.5°	1792.7	1724.0	1661.8	1593.9	1529.5	1472.9	1420.5	1378.4	1332.4	1292.9	1261.1
15°	1878.1	1807.8	1732.5	1629.3	1543.8	1472.2	1408.5	1353.3	1297.4	1248.8	1217.9
17.5°	1958.0	1852.1	1751.0	1664.9	1553.7	1464.3	1386.5	1320.4	1259.2	1207.7	1169.7
20°	1991.0	1888.5	1778.6	1668.8	1559.6	1459.5	1369.0	1296.2	1232.5	1174.2	1139.1
22.5°	2010.9	1894.8	1779.1	1661.1	1545.0	1441.0	1351.6	1271.5	1202.4	1147.0	1103.6
25°	2034.1	1895.8	1768.4	1651.8	1533.5	1420.6	1314.4	1229.5	1154.9	1095.9	1049.8
27.5°	2049.4	1886.7	1736.1	1606.5	1486.5	1374.1	1276.8	1186.7	1111.0	1048.7	999.3
30°	2052.4	1879.4	1711.3	1571.1	1449.1	1345.9	1242.8	1156.6	1076.6	1010.4	964.3
32.5°	2056.2	1861.4	1677.8	1528.8	1404.0	1301.8	1208.4	1126.1	1044.0	978.8	931.7
35°	2040.2	1851.5	1626.9	1455.8	1330.8	1231.9	1147.5	1071.7	991.0	927.8	879.9
37.5°	1971.2	1812.0	1574.2	1373.5	1242.8	1151.2	1082.4	1016.4	942.3	874.2	829.0
40°	1901.8	1773.2	1533.5	1323.5	1187.0	1092.9	1031.0	977.0	905.4	841.7	793.2
42.5°	1798.4	1720.3	1494.7	1271.0	1123.8	1033.2	981.0	930.4	867.5	802.8	757.2
45°	1608.7	1619.1	1415.1	1187.6	1036.4	945.5	896.3	861.1	805.3	751.9	705.2
47.5°	1370.8	1467.3	1321.8	1098.6	944.3	858.9	815.9	785.2	747.6	695.2	652.6
50°	1215.5	1353.3	1247.1	1038.9	886.6	801.6	759.1	734.2	701.5	660.2	619.6
52.5°	1072.3	1220.2	1156.7	972.4	823.9	746.3	704.8	684.3	658.3	619.5	582.6
55°	874.4	1024.3	1009.8	872.0	730.0	660.2	628.7	605.6	588.0	558.9	529.8
57.5°	707.3	849.4	856.9	760.4	647.3	578.3	551.2	533.8	522.3	500.2	473.3
60°	602.0	732.5	758.0	685.1	588.0	527.4	500.6	486.7	477.6	459.9	439.3
62.5°	514.6	625.6	654.5	602.1	531.2	474.4	453.5	440.1	433.9	418.7	400.6
65°	393.9	486.1	514.0	484.8	447.8	402.3	385.3	373.8	368.4	359.9	346.5
67.5°	296.1	363.4	394.0	373.4	360.1	331.4	320.6	314.3	309.5	303.6	292.5
70°	237.9	287.7	319.2	313.7	302.8	287.7	279.7	275.5	270.6	265.8	256.1
72.5°	191.3	225.5	255.1	257.9	249.0	245.9	239.0	237.2	234.3	228.5	223.1
75°	126.8	150.5	171.1	179.1	182.6	185.7	182.6	182.1	181.5	176.6	173.5
77.5°	83.1	95.9	108.9	122.3	128.0	132.2	133.1	135.4	133.8	131.2	129.7
80°	63.8	66.8	75.9	87.4	96.5	100.1	102.5	103.8	103.2	102.5	100.1
82.5°	46.3	48.8	53.1	61.2	68.8	74.9	76.3	76.1	77.4	77.8	75.9
85°	24.9	25.5	26.7	27.9	32.2	38.9	40.7	41.9	43.1	43.1	39.4
87.5°	11.1	10.2	10.6	10.3	11.3	11.2	13.8	15.9	16.8	15.2	15.7
90°	16.9	14.3	11.6	9.8	8.0	5.4	3.6	1.8	3.6	5.4	8.0
92.5°	113.1	74.7	51.5	38.3	30.8	23.9	16.4	11.1	16.4	23.9	30.8
95°	324.0	191.4	115.7	81.0	57.9	42.7	32.9	30.2	32.9	42.7	57.9
97.5°	355.5	206.0	133.7	96.1	73.3	60.2	52.5	51.6	52.5	60.2	73.3
100°	335.6	203.8	141.5	106.8	85.4	73.0	66.8	65.9	66.8	73.0	85.4
102.5°	318.4	206.7	150.8	119.0	99.7	87.9	82.4	80.8	82.4	87.9	99.7
105°	306.2	214.5	166.5	138.8	122.0	111.3	105.9	103.3	105.9	111.3	122.0
107.5°	305.3	229.1	186.9	161.3	145.4	134.9	129.7	127.1	129.7	134.9	145.4
110°	308.9	241.2	201.2	176.2	161.1	151.3	146.9	144.2	146.9	151.3	161.1



TEST NUMBER: P332350-940

CATALOG NUMBER: S123RDIP-S1000D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	316.0	253.3	216.2	191.9	176.7	167.0	162.6	159.9	162.6	167.0	176.7
115°	327.5	273.2	239.4	215.4	200.3	191.4	186.0	182.4	186.0	191.4	200.3
117.5°	342.9	294.4	261.0	238.7	221.8	213.7	209.2	205.1	209.2	213.7	221.8
120°	354.3	308.0	275.9	253.7	236.7	227.8	223.4	220.7	223.4	227.8	236.7
122.5°	365.0	322.2	290.9	267.2	251.0	241.4	236.9	234.3	236.9	241.4	251.0
125°	381.8	342.7	311.6	287.5	270.5	260.8	255.5	253.7	255.5	260.8	270.5
127.5°	395.7	360.5	330.4	306.4	287.7	277.7	271.1	268.5	271.1	277.7	287.7
130°	405.0	371.1	341.8	317.7	299.1	288.4	280.4	277.7	280.4	288.4	299.1
132.5°	413.6	380.4	351.8	328.4	309.8	296.9	288.2	284.8	288.2	296.9	309.8
135°	424.5	394.3	366.7	342.7	324.0	310.7	300.9	297.3	300.9	310.7	324.0
137.5°	432.7	403.9	377.4	355.2	336.6	322.4	312.8	309.1	312.8	322.4	336.6
140°	437.0	410.4	384.5	362.3	344.5	330.2	321.3	316.9	321.3	330.2	344.5
142.5°	441.3	415.4	390.2	369.3	351.6	338.8	329.1	325.4	329.1	338.8	351.6
145°	445.9	421.9	398.8	378.3	363.2	349.8	341.8	339.1	341.8	349.8	363.2
147.5°	448.8	427.2	406.1	388.6	374.0	362.5	354.6	353.0	354.6	362.5	374.0
150°	449.5	430.8	410.4	394.3	381.8	370.2	363.2	362.3	363.2	370.2	381.8
152.5°	450.9	432.9	415.4	400.0	389.0	378.8	371.7	371.5	371.7	378.8	389.0
155°	451.3	437.0	421.9	409.5	399.7	390.7	385.4	385.4	385.4	390.7	399.7
157.5°	452.2	439.3	427.2	417.6	409.3	401.4	397.2	396.5	397.2	401.4	409.3
160°	452.2	441.5	430.8	421.9	415.6	408.6	405.0	405.0	405.0	408.6	415.6
162.5°	451.5	442.2	432.9	425.4	419.9	414.3	411.4	411.4	411.4	414.3	419.9
165°	449.5	443.3	436.1	429.9	426.3	421.9	420.1	421.0	420.1	421.9	426.3
167.5°	448.1	443.1	437.9	434.0	431.5	428.1	427.2	428.3	427.2	428.1	431.5
170°	445.9	442.4	437.9	436.1	434.4	431.7	430.8	432.6	430.8	431.7	434.4
172.5°	445.2	442.4	438.6	437.6	436.5	434.5	434.4	435.4	434.4	434.5	436.5
175°	443.3	441.5	439.7	438.8	438.8	437.0	437.9	438.8	437.9	437.0	438.8
177.5°	441.8	440.4	439.7	439.7	439.7	439.0	439.7	440.4	439.7	439.0	439.7
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



TEST NUMBER: P332350-940

CATALOG NUMBER: S123RDIP-S1000D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1393.3	1387.0	1382.6	1372.9	1366.6	1359.8	1353.0	1357.4	1356.9	1356.4	1356.4
5°	1346.6	1332.6	1319.9	1303.5	1293.2	1280.4	1270.7	1269.5	1271.9	1263.5	1258.6
7.5°	1300.2	1281.1	1263.1	1245.0	1225.8	1210.5	1201.0	1196.4	1190.3	1185.0	1179.6
10°	1267.7	1245.3	1227.6	1205.1	1184.5	1166.4	1154.9	1146.9	1142.6	1138.4	1130.5
12.5°	1234.2	1212.2	1189.8	1164.4	1144.8	1123.6	1115.0	1106.2	1098.1	1093.2	1082.4
15°	1185.2	1156.6	1133.0	1106.3	1084.4	1063.8	1051.7	1034.0	1031.6	1025.6	1014.7
17.5°	1136.0	1105.0	1072.4	1052.7	1028.0	1006.5	988.0	982.1	964.7	958.2	948.7
20°	1097.2	1068.6	1043.7	1017.7	981.9	961.8	947.3	939.4	925.4	916.9	910.9
22.5°	1063.6	1034.7	1005.9	975.4	945.9	923.5	912.8	900.5	892.9	881.0	874.4
25°	1015.8	984.3	949.7	916.9	895.7	878.7	861.7	850.8	839.9	834.4	822.2
27.5°	960.3	927.3	894.9	870.0	844.0	827.2	811.8	802.1	789.0	779.8	773.1
30°	929.7	890.8	862.9	840.4	807.1	791.3	779.8	767.7	758.0	748.2	741.5
32.5°	894.2	858.8	832.3	804.6	778.9	761.7	746.8	736.1	727.8	718.6	711.9
35°	838.7	809.0	781.6	753.7	734.9	717.3	699.7	690.5	682.7	674.2	668.2
37.5°	788.4	760.6	734.7	708.2	684.8	670.6	656.4	649.4	638.7	633.0	626.9
40°	757.3	730.0	702.1	676.6	652.4	641.4	628.7	618.4	608.7	604.4	597.7
42.5°	723.4	696.1	672.5	645.1	625.2	610.4	598.6	587.3	580.1	573.8	570.1
45°	673.0	648.7	625.6	598.3	579.5	566.8	553.4	543.1	536.5	532.2	525.5
47.5°	624.1	599.8	576.4	552.6	534.4	519.8	506.5	499.3	490.4	485.3	480.7
50°	588.6	566.8	541.9	520.0	501.9	487.3	476.4	467.3	459.4	452.7	449.7
52.5°	556.1	532.8	511.3	491.0	471.7	455.2	445.3	435.7	429.8	422.1	418.6
55°	502.5	480.0	461.8	441.8	422.9	409.0	396.9	388.3	382.3	373.8	369.0
57.5°	452.1	431.9	410.2	392.9	373.4	361.7	351.6	340.1	332.7	326.0	321.3
60°	418.1	395.0	376.2	359.9	342.9	327.7	318.6	309.5	301.6	294.9	290.7
62.5°	382.6	362.6	344.6	326.8	311.3	298.1	287.5	279.9	273.0	268.7	264.5
65°	328.3	312.5	294.4	279.7	265.2	255.5	247.0	240.3	235.4	232.4	228.8
67.5°	278.3	263.0	247.1	232.8	223.1	215.7	210.1	204.4	202.0	198.0	195.6
70°	245.8	230.0	216.1	205.1	195.4	189.9	186.3	182.1	179.6	174.8	172.4
72.5°	210.4	198.9	188.9	179.9	172.1	167.1	162.5	157.3	153.4	148.0	145.6
75°	165.7	155.3	147.5	141.4	136.5	129.8	123.1	117.7	115.9	114.0	113.5
77.5°	122.7	116.2	110.5	105.3	99.2	94.4	93.0	91.8	91.4	90.4	90.4
80°	96.5	90.4	86.1	80.1	76.4	76.4	76.4	75.3	75.9	75.9	75.9
82.5°	71.7	66.2	63.8	61.6	60.9	61.4	61.4	61.6	61.3	62.2	61.8
85°	37.0	37.6	38.9	38.3	38.9	38.9	40.0	39.4	40.0	38.9	40.0
87.5°	15.5	17.4	18.4	19.4	20.4	20.5	20.8	21.0	21.6	21.8	22.1
90°	9.8	11.6	14.3	16.9	19.6	22.3	21.4	22.3	23.2	24.1	25.8
92.5°	38.3	51.5	74.7	113.1	150.6	136.9	103.3	74.9	59.5	52.5	47.9
95°	81.0	115.7	191.4	324.0	469.9	527.8	428.1	320.4	217.2	170.0	137.9
97.5°	96.1	133.7	206.0	355.5	598.9	818.0	875.1	798.8	639.8	525.0	418.5
100°	106.8	141.5	203.8	335.6	569.6	842.9	1018.2	1049.5	977.3	873.2	746.8
102.5°	119.0	150.8	206.7	318.4	526.9	796.7	1025.4	1132.7	1130.4	1069.7	989.6
105°	138.8	166.5	214.5	306.2	474.4	715.6	971.1	1157.1	1246.2	1263.0	1239.9
107.5°	161.3	186.9	229.1	305.3	441.0	644.1	876.0	1087.0	1231.5	1309.5	1341.2
110°	176.2	201.2	241.2	308.9	428.1	603.5	816.2	1020.0	1183.8	1295.9	1358.3



TEST NUMBER: P332350-940

CATALOG NUMBER: S123RDIP-S1000D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	191.9	216.2	253.3	316.0	421.0	576.4	764.2	953.8	1121.1	1246.8	1327.0
115°	215.4	239.4	273.2	327.5	418.3	547.4	701.4	866.0	1020.9	1151.7	1248.8
117.5°	238.7	261.0	294.4	342.9	419.9	530.3	663.4	802.5	936.2	1053.6	1152.1
120°	253.7	275.9	308.0	354.3	422.8	522.5	643.5	769.0	889.2	996.0	1085.9
122.5°	267.2	290.9	322.2	365.0	427.8	517.5	627.1	742.7	851.5	950.5	1033.9
125°	287.5	311.6	342.7	381.8	435.2	511.0	606.2	707.7	804.7	890.1	961.3
127.5°	306.4	330.4	360.5	395.7	443.8	507.7	587.6	677.0	763.5	840.6	905.4
130°	317.7	341.8	371.1	405.0	449.5	505.6	577.7	657.8	737.9	809.9	870.5
132.5°	328.4	351.8	380.4	413.6	453.8	504.9	568.4	640.0	713.6	780.8	838.5
135°	342.7	366.7	394.3	424.5	460.2	503.8	556.3	615.9	679.1	737.0	787.7
137.5°	355.2	377.4	403.9	432.7	464.4	501.9	545.8	594.1	645.9	695.7	739.7
140°	362.3	384.5	410.4	437.0	467.3	501.1	539.4	581.2	626.6	669.3	707.7
142.5°	369.3	390.2	415.4	441.3	469.4	499.7	533.7	569.1	608.1	645.2	678.4
145°	378.3	398.8	421.9	445.9	470.8	497.6	526.0	554.6	583.9	612.3	638.2
147.5°	388.6	406.1	427.2	448.8	470.8	494.2	518.5	542.6	565.9	588.9	607.3
150°	394.3	410.4	430.8	449.5	470.8	491.3	513.5	534.0	554.6	573.2	590.1
152.5°	400.0	415.4	432.9	450.9	468.7	487.8	507.9	526.2	543.9	560.4	574.4
155°	409.5	421.9	437.0	451.3	466.4	481.5	499.4	514.4	528.7	542.1	552.8
157.5°	417.6	427.2	439.3	452.2	463.4	476.0	489.7	502.0	513.9	524.2	532.6
160°	421.9	430.8	441.5	452.2	462.0	471.7	483.3	494.9	504.7	513.5	519.8
162.5°	425.4	432.9	442.2	451.5	459.1	467.4	476.9	486.3	494.7	502.9	508.5
165°	429.9	436.1	443.3	449.5	454.9	461.1	468.1	475.3	480.6	486.9	491.3
167.5°	434.0	437.9	443.1	448.1	450.6	454.7	459.9	465.7	469.8	473.3	476.5
170°	436.1	437.9	442.4	445.9	447.7	450.4	454.9	459.3	462.0	465.5	467.3
172.5°	437.6	438.6	442.4	445.2	445.6	446.8	449.9	453.6	455.6	458.4	459.5
175°	438.8	439.7	441.5	443.3	442.4	442.4	444.2	445.9	446.8	448.6	448.6
177.5°	439.7	439.7	440.4	441.8	440.4	439.7	440.4	441.1	441.8	442.6	442.6
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



TEST NUMBER: P332350-940

CATALOG NUMBER: S123RDIP-S1000D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1350.6	1350.1	1350.6	1348.6	1350.6	1350.1	1350.6	1356.4	1356.4	1356.9	1357.4
5°	1256.8	1256.2	1254.4	1248.8	1254.4	1256.2	1256.8	1258.6	1263.5	1271.9	1269.5
7.5°	1174.8	1174.0	1168.7	1168.8	1168.7	1174.0	1174.8	1179.6	1185.0	1190.3	1196.4
10°	1126.3	1126.9	1119.6	1115.4	1119.6	1126.9	1126.3	1130.5	1138.4	1142.6	1146.9
12.5°	1079.2	1076.4	1070.6	1065.9	1070.6	1076.4	1079.2	1082.4	1093.2	1098.1	1106.2
15°	1017.1	1011.0	996.4	997.6	996.4	1011.0	1017.1	1014.7	1025.6	1031.6	1034.0
17.5°	943.9	939.4	939.1	930.7	939.1	939.4	943.9	948.7	958.2	964.7	982.1
20°	901.2	898.1	899.3	890.8	899.3	898.1	901.2	910.9	916.9	925.4	939.4
22.5°	867.6	864.6	859.5	856.8	859.5	864.6	867.6	874.4	881.0	892.9	900.5
25°	818.6	813.8	809.0	812.0	809.0	813.8	818.6	822.2	834.4	839.9	850.8
27.5°	769.6	766.0	761.1	760.5	761.1	766.0	769.6	773.1	779.8	789.0	802.1
30°	738.5	734.9	732.5	729.4	732.5	734.9	738.5	741.5	748.2	758.0	767.7
32.5°	706.9	706.2	701.9	701.2	701.9	706.2	706.9	711.9	718.6	727.8	736.1
35°	665.7	662.1	660.8	661.5	660.8	662.1	665.7	668.2	674.2	682.7	690.5
37.5°	626.5	621.6	619.5	617.2	619.5	621.6	626.5	626.9	633.0	638.7	649.4
40°	598.3	593.5	592.3	591.0	592.3	593.5	598.3	597.7	604.4	608.7	618.4
42.5°	566.8	564.8	564.1	562.0	564.1	564.8	566.8	570.1	573.8	580.1	587.3
45°	523.7	523.1	519.4	520.7	519.4	523.1	523.7	525.5	532.2	536.5	543.1
47.5°	478.3	475.6	473.1	474.7	473.1	475.6	478.3	480.7	485.3	490.4	499.3
50°	447.3	446.0	440.6	441.8	440.6	446.0	447.3	449.7	452.7	459.4	467.3
52.5°	416.2	411.5	409.5	408.8	409.5	411.5	416.2	418.6	422.1	429.8	435.7
55°	364.7	359.3	356.9	355.6	356.9	359.3	364.7	369.0	373.8	382.3	388.3
57.5°	314.2	312.7	310.9	312.2	310.9	312.7	314.2	321.3	326.0	332.7	340.1
60°	284.6	284.6	284.6	284.0	284.6	284.6	284.6	290.7	294.9	301.6	309.5
62.5°	261.8	260.3	259.8	260.7	259.8	260.3	261.8	264.5	268.7	273.0	279.9
65°	226.9	226.3	223.9	223.3	223.9	226.3	226.9	228.8	232.4	235.4	240.3
67.5°	194.0	191.9	191.2	190.3	191.2	191.9	194.0	195.6	198.0	202.0	204.4
70°	169.3	168.1	164.4	165.1	164.4	168.1	169.3	172.4	174.8	179.6	182.1
72.5°	142.6	141.4	140.6	139.8	140.6	141.4	142.6	145.6	148.0	153.4	157.3
75°	112.9	112.3	111.6	114.0	111.6	112.3	112.9	113.5	114.0	115.9	117.7
77.5°	90.4	90.4	90.8	89.8	90.8	90.4	90.4	90.4	90.4	91.4	91.8
80°	75.9	75.9	75.3	75.3	75.3	75.9	75.9	75.9	75.9	75.9	75.3
82.5°	60.8	61.3	61.6	60.7	61.6	61.3	60.8	61.8	62.2	61.3	61.6
85°	40.0	39.4	40.7	40.0	40.7	39.4	40.0	40.0	38.9	40.0	39.4
87.5°	22.9	22.1	22.3	22.6	22.3	22.1	22.9	22.1	21.8	21.6	21.0
90°	24.9	25.8	26.7	25.8	26.7	25.8	24.9	25.8	24.1	23.2	22.3
92.5°	46.3	43.6	44.5	42.9	44.5	43.6	46.3	47.9	52.5	59.5	74.9
95°	121.1	113.1	106.8	103.3	106.8	113.1	121.1	137.9	170.0	217.2	320.4
97.5°	352.8	312.8	288.7	281.1	288.7	312.8	352.8	418.5	525.0	639.8	798.8
100°	656.9	591.9	557.2	558.1	557.2	591.9	656.9	746.8	873.2	977.3	1049.5
102.5°	919.6	868.2	839.2	818.7	839.2	868.2	919.6	989.6	1069.7	1130.4	1132.7
105°	1198.9	1165.1	1136.7	1132.2	1136.7	1165.1	1198.9	1239.9	1263.0	1246.2	1157.1
107.5°	1341.9	1330.5	1320.9	1312.7	1320.9	1330.5	1341.9	1341.2	1309.5	1231.5	1087.0
110°	1383.2	1390.4	1388.6	1386.8	1388.6	1390.4	1383.2	1358.3	1295.9	1183.8	1020.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1372.5	1394.5	1401.3	1401.7	1401.3	1394.5	1372.5	1327.0	1246.8	1121.1	953.8
115°	1315.5	1354.7	1372.5	1377.0	1372.5	1354.7	1315.5	1248.8	1151.7	1020.9	866.0
117.5°	1221.7	1266.6	1292.3	1298.2	1292.3	1266.6	1221.7	1152.1	1053.6	936.2	802.5
120°	1156.2	1206.0	1227.4	1232.8	1227.4	1206.0	1156.2	1085.9	996.0	889.2	769.0
122.5°	1096.4	1141.3	1164.8	1171.5	1164.8	1141.3	1096.4	1033.9	950.5	851.5	742.7
125°	1018.2	1057.4	1079.7	1085.9	1079.7	1057.4	1018.2	961.3	890.1	804.7	707.7
127.5°	956.1	989.6	1009.7	1015.4	1009.7	989.6	956.1	905.4	840.6	763.5	677.0
130°	917.7	949.8	968.4	975.5	968.4	949.8	917.7	870.5	809.9	737.9	657.8
132.5°	882.8	914.8	931.4	936.4	931.4	914.8	882.8	838.5	780.8	713.6	640.0
135°	831.3	858.0	874.1	880.3	874.1	858.0	831.3	787.7	737.0	679.1	615.9
137.5°	776.3	803.4	816.9	821.0	816.9	803.4	776.3	739.7	695.7	645.9	594.1
140°	741.5	766.3	780.6	779.7	780.6	766.3	741.5	707.7	669.3	626.6	581.2
142.5°	707.3	729.3	742.2	741.3	742.2	729.3	707.3	678.4	645.2	608.1	569.1
145°	660.4	679.1	686.3	688.0	686.3	679.1	660.4	638.2	612.3	583.9	554.6
147.5°	624.1	636.8	643.5	644.3	643.5	636.8	624.1	607.3	588.9	565.9	542.6
150°	603.5	613.2	618.6	618.6	618.6	613.2	603.5	590.1	573.2	554.6	534.0
152.5°	585.0	594.1	597.3	597.3	597.3	594.1	585.0	574.4	560.4	543.9	526.2
155°	560.8	567.8	569.6	570.5	569.6	567.8	560.8	552.8	542.1	528.7	514.4
157.5°	539.6	544.9	546.4	546.2	546.4	544.9	539.6	532.6	524.2	513.9	502.0
160°	526.0	531.4	531.4	530.5	531.4	531.4	526.0	519.8	513.5	504.7	494.9
162.5°	512.6	517.1	517.1	516.2	517.1	517.1	512.6	508.5	502.9	494.7	486.3
165°	494.9	498.5	497.6	497.6	497.6	498.5	494.9	491.3	486.9	480.6	475.3
167.5°	478.1	480.6	479.7	479.7	479.7	480.6	478.1	476.5	473.3	469.8	465.7
170°	468.1	469.9	469.0	469.0	469.0	469.9	468.1	467.3	465.5	462.0	459.3
172.5°	459.7	461.5	459.9	459.1	459.9	461.5	459.7	459.5	458.4	455.6	453.6
175°	448.6	449.5	448.6	447.7	448.6	449.5	448.6	448.6	448.6	446.8	445.9
177.5°	441.8	442.6	441.1	441.1	441.1	442.6	441.8	442.6	442.6	441.8	441.1
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1353.0	1359.8	1366.6	1372.9	1382.6	1387.0	1393.3	1395.7	1403.0	1413.7	1422.5
5°	1270.7	1280.4	1293.2	1303.5	1319.9	1332.6	1346.6	1359.9	1375.7	1398.1	1418.2
7.5°	1201.0	1210.5	1225.8	1245.0	1263.1	1281.1	1300.2	1318.4	1341.0	1373.1	1405.1
10°	1154.9	1166.4	1184.5	1205.1	1227.6	1245.3	1267.7	1290.8	1318.7	1355.7	1393.9
12.5°	1115.0	1123.6	1144.8	1164.4	1189.8	1212.2	1234.2	1261.1	1292.9	1332.4	1378.4
15°	1051.7	1063.8	1084.4	1106.3	1133.0	1156.6	1185.2	1217.9	1248.8	1297.4	1353.3
17.5°	988.0	1006.5	1028.0	1052.7	1072.4	1105.0	1136.0	1169.7	1207.7	1259.2	1320.4
20°	947.3	961.8	981.9	1017.7	1043.7	1068.6	1097.2	1139.1	1174.2	1232.5	1296.2
22.5°	912.8	923.5	945.9	975.4	1005.9	1034.7	1063.6	1103.6	1147.0	1202.4	1271.5
25°	861.7	878.7	895.7	916.9	949.7	984.3	1015.8	1049.8	1095.9	1154.9	1229.5
27.5°	811.8	827.2	844.0	870.0	894.9	927.3	960.3	999.3	1048.7	1111.0	1186.7
30°	779.8	791.3	807.1	840.4	862.9	890.8	929.7	964.3	1010.4	1076.6	1156.6
32.5°	746.8	761.7	778.9	804.6	832.3	858.8	894.2	931.7	978.8	1044.0	1126.1
35°	699.7	717.3	734.9	753.7	781.6	809.0	838.7	879.9	927.8	991.0	1071.7
37.5°	656.4	670.6	684.8	708.2	734.7	760.6	788.4	829.0	874.2	942.3	1016.4
40°	628.7	641.4	652.4	676.6	702.1	730.0	757.3	793.2	841.7	905.4	977.0
42.5°	598.6	610.4	625.2	645.1	672.5	696.1	723.4	757.2	802.8	867.5	930.4
45°	553.4	566.8	579.5	598.3	625.6	648.7	673.0	705.2	751.9	805.3	861.1
47.5°	506.5	519.8	534.4	552.6	576.4	599.8	624.1	652.6	695.2	747.6	785.2
50°	476.4	487.3	501.9	520.0	541.9	566.8	588.6	619.6	660.2	701.5	734.2
52.5°	445.3	455.2	471.7	491.0	511.3	532.8	556.1	582.6	619.5	658.3	684.3
55°	396.9	409.0	422.9	441.8	461.8	480.0	502.5	529.8	558.9	588.0	605.6
57.5°	351.6	361.7	373.4	392.9	410.2	431.9	452.1	473.3	500.2	522.3	533.8
60°	318.6	327.7	342.9	359.9	376.2	395.0	418.1	439.3	459.9	477.6	486.7
62.5°	287.5	298.1	311.3	326.8	344.6	362.6	382.6	400.6	418.7	433.9	440.1
65°	247.0	255.5	265.2	279.7	294.4	312.5	328.3	346.5	359.9	368.4	373.8
67.5°	210.1	215.7	223.1	232.8	247.1	263.0	278.3	292.5	303.6	309.5	314.3
70°	186.3	189.9	195.4	205.1	216.1	230.0	245.8	256.1	265.8	270.6	275.5
72.5°	162.5	167.1	172.1	179.9	188.9	198.9	210.4	223.1	228.5	234.3	237.2
75°	123.1	129.8	136.5	141.4	147.5	155.3	165.7	173.5	176.6	181.5	182.1
77.5°	93.0	94.4	99.2	105.3	110.5	116.2	122.7	129.7	131.2	133.8	135.4
80°	76.4	76.4	76.4	80.1	86.1	90.4	96.5	100.1	102.5	103.2	103.8
82.5°	61.4	61.4	60.9	61.6	63.8	66.2	71.7	75.9	77.8	77.4	76.1
85°	40.0	38.9	38.9	38.3	38.9	37.6	37.0	39.4	43.1	43.1	41.9
87.5°	20.8	20.5	20.4	19.4	18.4	17.4	15.5	15.7	15.2	16.8	15.9
90°	21.4	22.3	19.6	16.9	14.3	11.6	9.8	8.0	5.4	3.6	1.8
92.5°	103.3	136.9	150.6	113.1	74.7	51.5	38.3	30.8	23.9	16.4	11.1
95°	428.1	527.8	469.9	324.0	191.4	115.7	81.0	57.9	42.7	32.9	30.2
97.5°	875.1	818.0	598.9	355.5	206.0	133.7	96.1	73.3	60.2	52.5	51.6
100°	1018.2	842.9	569.6	335.6	203.8	141.5	106.8	85.4	73.0	66.8	65.9
102.5°	1025.4	796.7	526.9	318.4	206.7	150.8	119.0	99.7	87.9	82.4	80.8
105°	971.1	715.6	474.4	306.2	214.5	166.5	138.8	122.0	111.3	105.9	103.3
107.5°	876.0	644.1	441.0	305.3	229.1	186.9	161.3	145.4	134.9	129.7	127.1
110°	816.2	603.5	428.1	308.9	241.2	201.2	176.2	161.1	151.3	146.9	144.2



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CATALOG NUMBER: S123RDIP-S1000D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	764.2	576.4	421.0	316.0	253.3	216.2	191.9	176.7	167.0	162.6	159.9
115°	701.4	547.4	418.3	327.5	273.2	239.4	215.4	200.3	191.4	186.0	182.4
117.5°	663.4	530.3	419.9	342.9	294.4	261.0	238.7	221.8	213.7	209.2	205.1
120°	643.5	522.5	422.8	354.3	308.0	275.9	253.7	236.7	227.8	223.4	220.7
122.5°	627.1	517.5	427.8	365.0	322.2	290.9	267.2	251.0	241.4	236.9	234.3
125°	606.2	511.0	435.2	381.8	342.7	311.6	287.5	270.5	260.8	255.5	253.7
127.5°	587.6	507.7	443.8	395.7	360.5	330.4	306.4	287.7	277.7	271.1	268.5
130°	577.7	505.6	449.5	405.0	371.1	341.8	317.7	299.1	288.4	280.4	277.7
132.5°	568.4	504.9	453.8	413.6	380.4	351.8	328.4	309.8	296.9	288.2	284.8
135°	556.3	503.8	460.2	424.5	394.3	366.7	342.7	324.0	310.7	300.9	297.3
137.5°	545.8	501.9	464.4	432.7	403.9	377.4	355.2	336.6	322.4	312.8	309.1
140°	539.4	501.1	467.3	437.0	410.4	384.5	362.3	344.5	330.2	321.3	316.9
142.5°	533.7	499.7	469.4	441.3	415.4	390.2	369.3	351.6	338.8	329.1	325.4
145°	526.0	497.6	470.8	445.9	421.9	398.8	378.3	363.2	349.8	341.8	339.1
147.5°	518.5	494.2	470.8	448.8	427.2	406.1	388.6	374.0	362.5	354.6	353.0
150°	513.5	491.3	470.8	449.5	430.8	410.4	394.3	381.8	370.2	363.2	362.3
152.5°	507.9	487.8	468.7	450.9	432.9	415.4	400.0	389.0	378.8	371.7	371.5
155°	499.4	481.5	466.4	451.3	437.0	421.9	409.5	399.7	390.7	385.4	385.4
157.5°	489.7	476.0	463.4	452.2	439.3	427.2	417.6	409.3	401.4	397.2	396.5
160°	483.3	471.7	462.0	452.2	441.5	430.8	421.9	415.6	408.6	405.0	405.0
162.5°	476.9	467.4	459.1	451.5	442.2	432.9	425.4	419.9	414.3	411.4	411.4
165°	468.1	461.1	454.9	449.5	443.3	436.1	429.9	426.3	421.9	420.1	421.0
167.5°	459.9	454.7	450.6	448.1	443.1	437.9	434.0	431.5	428.1	427.2	428.3
170°	454.9	450.4	447.7	445.9	442.4	437.9	436.1	434.4	431.7	430.8	432.6
172.5°	449.9	446.8	445.6	445.2	442.4	438.6	437.6	436.5	434.5	434.4	435.4
175°	444.2	442.4	442.4	443.3	441.5	439.7	438.8	438.8	437.0	437.9	438.8
177.5°	440.4	439.7	440.4	441.8	440.4	439.7	439.7	439.7	439.0	439.7	440.4
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



TEST NUMBER: P332350-940

CATALOG NUMBER: S123RDIP-S1000D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1425.3	1430.7	1437.4	1447.7	1455.5	1462.2	1463.7	1465.6	1470.5	1478.7	1485.1
5°	1434.6	1448.5	1471.0	1492.8	1516.5	1535.9	1554.1	1566.8	1579.0	1604.5	1625.1
7.5°	1431.6	1462.8	1497.9	1537.1	1576.8	1615.2	1651.0	1682.9	1714.7	1751.9	1794.2
10°	1429.7	1466.2	1513.4	1563.8	1619.1	1673.0	1725.3	1765.9	1813.2	1855.7	1909.7
12.5°	1420.5	1472.9	1529.5	1593.9	1661.8	1724.0	1792.7	1848.9	1903.1	1964.4	2027.2
15°	1408.5	1472.2	1543.8	1629.3	1732.5	1807.8	1878.1	1975.9	2042.6	2109.3	2199.2
17.5°	1386.5	1464.3	1553.7	1664.9	1751.0	1852.1	1958.0	2035.2	2125.1	2219.2	2300.5
20°	1369.0	1459.5	1559.6	1668.8	1778.6	1888.5	1991.0	2083.3	2176.1	2284.7	2351.5
22.5°	1351.6	1441.0	1545.0	1661.1	1779.1	1894.8	2010.9	2119.2	2223.7	2333.3	2418.5
25°	1314.4	1420.6	1533.5	1651.8	1768.4	1895.8	2034.1	2154.9	2284.1	2397.0	2477.7
27.5°	1276.8	1374.1	1486.5	1606.5	1736.1	1886.7	2049.4	2186.7	2316.2	2397.0	2422.4
30°	1242.8	1345.9	1449.1	1571.1	1711.3	1879.4	2052.4	2209.5	2315.7	2350.9	2324.8
32.5°	1208.4	1301.8	1404.0	1528.8	1677.8	1861.4	2056.2	2195.9	2259.9	2232.9	2126.7
35°	1147.5	1231.9	1330.8	1455.8	1626.9	1851.5	2040.2	2134.8	2119.1	1967.4	1767.1
37.5°	1082.4	1151.2	1242.8	1373.5	1574.2	1812.0	1971.2	1985.2	1848.7	1615.8	1384.5
40°	1031.0	1092.9	1187.0	1323.5	1533.5	1773.2	1901.8	1845.4	1633.6	1374.5	1181.5
42.5°	981.0	1033.2	1123.8	1271.0	1494.7	1720.3	1798.4	1675.5	1431.2	1186.2	1010.7
45°	896.3	945.5	1036.4	1187.6	1415.1	1619.1	1608.7	1395.1	1150.6	953.3	807.7
47.5°	815.9	858.9	944.3	1098.6	1321.8	1467.3	1370.8	1143.5	936.1	777.8	674.0
50°	759.1	801.6	886.6	1038.9	1247.1	1353.3	1215.5	996.4	806.5	675.4	592.9
52.5°	704.8	746.3	823.9	972.4	1156.7	1220.2	1072.3	869.2	710.9	597.7	526.8
55°	628.7	660.2	730.0	872.0	1009.8	1024.3	874.4	704.5	574.1	495.2	446.7
57.5°	551.2	578.3	647.3	760.4	856.9	849.4	707.3	560.4	472.5	413.8	378.7
60°	500.6	527.4	588.0	685.1	758.0	732.5	602.0	483.7	408.4	365.3	337.4
62.5°	453.5	474.4	531.2	602.1	654.5	625.6	514.6	416.7	357.0	320.7	298.5
65°	385.3	402.3	447.8	484.8	514.0	486.1	393.9	325.8	282.8	257.3	242.1
67.5°	320.6	331.4	360.1	373.4	394.0	363.4	296.1	250.7	226.1	204.6	194.0
70°	279.7	287.7	302.8	313.7	319.2	287.7	237.9	204.5	183.9	168.7	162.0
72.5°	239.0	245.9	249.0	257.9	255.1	225.5	191.3	164.7	149.9	139.6	131.0
75°	182.6	185.7	182.6	179.1	171.1	150.5	126.8	113.5	102.5	97.7	94.7
77.5°	133.1	132.2	128.0	122.3	108.9	95.9	83.1	78.6	73.9	71.3	70.3
80°	102.5	100.1	96.5	87.4	75.9	66.8	63.8	60.7	58.9	55.8	55.2
82.5°	76.3	74.9	68.8	61.2	53.1	48.8	46.3	45.1	43.3	41.7	41.6
85°	40.7	38.9	32.2	27.9	26.7	25.5	24.9	24.9	22.5	21.8	21.8
87.5°	13.8	11.2	11.3	10.3	10.6	10.2	11.1	10.7	10.8	11.1	10.3
90°	3.6	5.4	8.0	9.8	11.6	14.3	16.9	19.6	22.3	21.4	22.3
92.5°	16.4	23.9	30.8	38.3	51.5	74.7	113.1	150.6	136.9	103.3	74.9
95°	32.9	42.7	57.9	81.0	115.7	191.4	324.0	469.9	527.8	428.1	320.4
97.5°	52.5	60.2	73.3	96.1	133.7	206.0	355.5	598.9	818.0	875.1	798.8
100°	66.8	73.0	85.4	106.8	141.5	203.8	335.6	569.6	842.9	1018.2	1049.5
102.5°	82.4	87.9	99.7	119.0	150.8	206.7	318.4	526.9	796.7	1025.4	1132.7
105°	105.9	111.3	122.0	138.8	166.5	214.5	306.2	474.4	715.6	971.1	1157.1
107.5°	129.7	134.9	145.4	161.3	186.9	229.1	305.3	441.0	644.1	876.0	1087.0
110°	146.9	151.3	161.1	176.2	201.2	241.2	308.9	428.1	603.5	816.2	1020.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	162.6	167.0	176.7	191.9	216.2	253.3	316.0	421.0	576.4	764.2	953.8
115°	186.0	191.4	200.3	215.4	239.4	273.2	327.5	418.3	547.4	701.4	866.0
117.5°	209.2	213.7	221.8	238.7	261.0	294.4	342.9	419.9	530.3	663.4	802.5
120°	223.4	227.8	236.7	253.7	275.9	308.0	354.3	422.8	522.5	643.5	769.0
122.5°	236.9	241.4	251.0	267.2	290.9	322.2	365.0	427.8	517.5	627.1	742.7
125°	255.5	260.8	270.5	287.5	311.6	342.7	381.8	435.2	511.0	606.2	707.7
127.5°	271.1	277.7	287.7	306.4	330.4	360.5	395.7	443.8	507.7	587.6	677.0
130°	280.4	288.4	299.1	317.7	341.8	371.1	405.0	449.5	505.6	577.7	657.8
132.5°	288.2	296.9	309.8	328.4	351.8	380.4	413.6	453.8	504.9	568.4	640.0
135°	300.9	310.7	324.0	342.7	366.7	394.3	424.5	460.2	503.8	556.3	615.9
137.5°	312.8	322.4	336.6	355.2	377.4	403.9	432.7	464.4	501.9	545.8	594.1
140°	321.3	330.2	344.5	362.3	384.5	410.4	437.0	467.3	501.1	539.4	581.2
142.5°	329.1	338.8	351.6	369.3	390.2	415.4	441.3	469.4	499.7	533.7	569.1
145°	341.8	349.8	363.2	378.3	398.8	421.9	445.9	470.8	497.6	526.0	554.6
147.5°	354.6	362.5	374.0	388.6	406.1	427.2	448.8	470.8	494.2	518.5	542.6
150°	363.2	370.2	381.8	394.3	410.4	430.8	449.5	470.8	491.3	513.5	534.0
152.5°	371.7	378.8	389.0	400.0	415.4	432.9	450.9	468.7	487.8	507.9	526.2
155°	385.4	390.7	399.7	409.5	421.9	437.0	451.3	466.4	481.5	499.4	514.4
157.5°	397.2	401.4	409.3	417.6	427.2	439.3	452.2	463.4	476.0	489.7	502.0
160°	405.0	408.6	415.6	421.9	430.8	441.5	452.2	462.0	471.7	483.3	494.9
162.5°	411.4	414.3	419.9	425.4	432.9	442.2	451.5	459.1	467.4	476.9	486.3
165°	420.1	421.9	426.3	429.9	436.1	443.3	449.5	454.9	461.1	468.1	475.3
167.5°	427.2	428.1	431.5	434.0	437.9	443.1	448.1	450.6	454.7	459.9	465.7
170°	430.8	431.7	434.4	436.1	437.9	442.4	445.9	447.7	450.4	454.9	459.3
172.5°	434.4	434.5	436.5	437.6	438.6	442.4	445.2	445.6	446.8	449.9	453.6
175°	437.9	437.0	438.8	438.8	439.7	441.5	443.3	442.4	442.4	444.2	445.9
177.5°	439.7	439.0	439.7	439.7	439.7	440.4	441.8	440.4	439.7	440.4	441.1
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1495.2	1495.2	1497.2	1504.5	1505.5	1511.7	1509.8
5°	1643.3	1654.8	1659.1	1677.3	1688.2	1693.1	1683.4
7.5°	1824.4	1856.9	1872.3	1891.4	1908.3	1913.3	1900.1
10°	1956.4	1990.4	2018.9	2036.6	2052.9	2063.9	2077.8
12.5°	2084.1	2125.8	2152.9	2177.8	2194.7	2208.5	2210.8
15°	2222.9	2286.0	2333.9	2369.1	2386.7	2395.8	2392.2
17.5°	2362.8	2421.3	2455.4	2491.4	2515.7	2516.9	2517.7
20°	2442.0	2498.9	2538.4	2565.1	2592.4	2591.2	2597.3
22.5°	2494.8	2539.8	2570.0	2589.3	2598.7	2594.1	2595.3
25°	2519.6	2532.9	2527.5	2496.5	2488.7	2460.1	2465.0
27.5°	2391.9	2328.8	2263.5	2179.5	2113.3	2060.3	2063.0
30°	2218.6	2106.9	1979.5	1872.7	1776.8	1750.2	1693.1
32.5°	1976.4	1808.8	1659.6	1560.0	1477.7	1455.5	1405.7
35°	1565.7	1403.0	1249.5	1157.3	1120.8	1069.9	1069.3
37.5°	1216.9	1073.7	992.6	923.4	887.1	856.2	853.2
40°	1023.8	912.0	850.8	801.0	765.3	742.2	736.7
42.5°	888.8	798.4	741.1	710.2	682.7	670.8	661.9
45°	725.8	665.1	625.0	597.1	584.4	575.2	570.4
47.5°	607.1	566.4	539.1	520.6	510.2	500.6	503.2
50°	542.5	509.2	489.1	471.5	463.6	456.9	457.5
52.5°	490.5	460.6	444.4	431.7	421.9	417.1	414.8
55°	416.3	397.4	381.1	372.0	366.5	359.9	358.0
57.5°	355.1	340.5	327.2	316.9	315.6	309.2	310.0
60°	314.3	302.2	291.3	285.8	281.6	276.1	277.9
62.5°	280.9	270.6	260.7	256.2	252.0	248.0	248.8
65°	230.0	220.3	214.2	211.8	210.0	208.1	206.3
67.5°	183.2	177.4	173.5	168.4	164.6	164.0	162.1
70°	154.2	146.2	139.6	132.9	131.1	130.5	131.1
72.5°	123.6	118.6	116.7	113.5	113.2	111.6	112.6
75°	92.8	91.0	89.8	87.4	87.4	87.4	87.4
77.5°	68.5	67.3	66.6	66.2	65.5	64.6	64.6
80°	53.4	52.8	51.5	51.5	51.0	51.5	51.0
82.5°	40.3	40.2	39.0	39.0	38.3	38.0	38.3
85°	20.6	20.1	21.2	20.1	20.6	19.4	20.6
87.5°	10.4	10.6	10.5	10.3	10.0	11.1	10.0
90°	23.2	24.1	25.8	24.9	25.8	26.7	25.8
92.5°	59.5	52.5	47.9	46.3	43.6	44.5	42.9
95°	217.2	170.0	137.9	121.1	113.1	106.8	103.3
97.5°	639.8	525.0	418.5	352.8	312.8	288.7	281.1
100°	977.3	873.2	746.8	656.9	591.9	557.2	558.1
102.5°	1130.4	1069.7	989.6	919.6	868.2	839.2	818.7
105°	1246.2	1263.0	1239.9	1198.9	1165.1	1136.7	1132.2
107.5°	1231.5	1309.5	1341.2	1341.9	1330.5	1320.9	1312.7
110°	1183.8	1295.9	1358.3	1383.2	1390.4	1388.6	1386.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1121.1	1246.8	1327.0	1372.5	1394.5	1401.3	1401.7
115°	1020.9	1151.7	1248.8	1315.5	1354.7	1372.5	1377.0
117.5°	936.2	1053.6	1152.1	1221.7	1266.6	1292.3	1298.2
120°	889.2	996.0	1085.9	1156.2	1206.0	1227.4	1232.8
122.5°	851.5	950.5	1033.9	1096.4	1141.3	1164.8	1171.5
125°	804.7	890.1	961.3	1018.2	1057.4	1079.7	1085.9
127.5°	763.5	840.6	905.4	956.1	989.6	1009.7	1015.4
130°	737.9	809.9	870.5	917.7	949.8	968.4	975.5
132.5°	713.6	780.8	838.5	882.8	914.8	931.4	936.4
135°	679.1	737.0	787.7	831.3	858.0	874.1	880.3
137.5°	645.9	695.7	739.7	776.3	803.4	816.9	821.0
140°	626.6	669.3	707.7	741.5	766.3	780.6	779.7
142.5°	608.1	645.2	678.4	707.3	729.3	742.2	741.3
145°	583.9	612.3	638.2	660.4	679.1	686.3	688.0
147.5°	565.9	588.9	607.3	624.1	636.8	643.5	644.3
150°	554.6	573.2	590.1	603.5	613.2	618.6	618.6
152.5°	543.9	560.4	574.4	585.0	594.1	597.3	597.3
155°	528.7	542.1	552.8	560.8	567.8	569.6	570.5
157.5°	513.9	524.2	532.6	539.6	544.9	546.4	546.2
160°	504.7	513.5	519.8	526.0	531.4	531.4	530.5
162.5°	494.7	502.9	508.5	512.6	517.1	517.1	516.2
165°	480.6	486.9	491.3	494.9	498.5	497.6	497.6
167.5°	469.8	473.3	476.5	478.1	480.6	479.7	479.7
170°	462.0	465.5	467.3	468.1	469.9	469.0	469.0
172.5°	455.6	458.4	459.5	459.7	461.5	459.9	459.1
175°	446.8	448.6	448.6	448.6	449.5	448.6	447.7
177.5°	441.8	442.6	442.6	441.8	442.6	441.1	441.1
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7

(END OF REPORT)