

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: P331736-940

Luminaire Tested: **SA2XXRDIP-C1005D330U940-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331736-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C1005D330U940-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4444.1 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

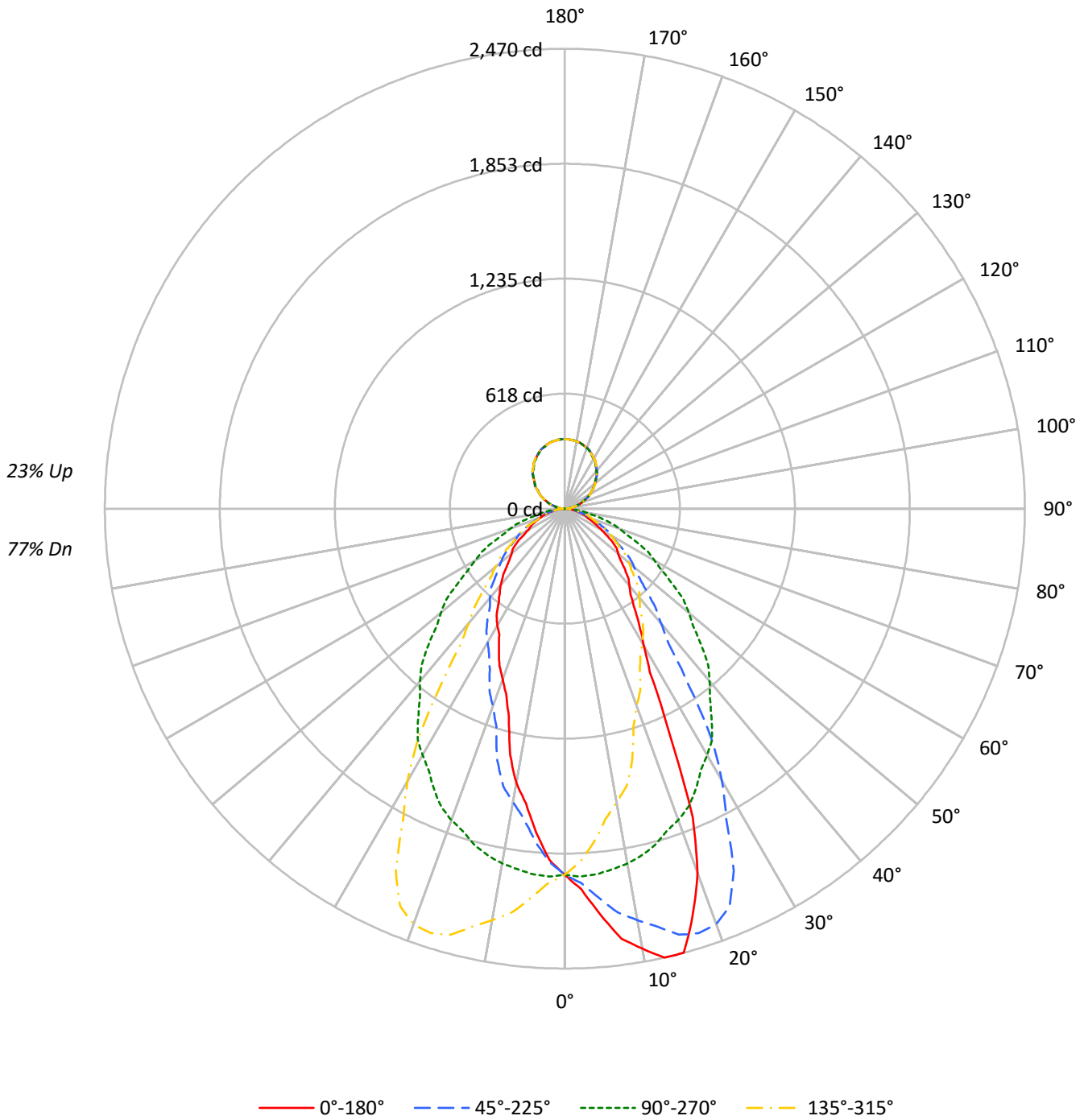
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	77
1	105	101	97	94	100	96	93	90	88	85	83	80	78	77	73	72	70	67
2	97	90	84	79	92	86	81	76	79	74	71	72	69	66	66	63	61	58
3	89	80	73	67	85	77	70	65	71	65	61	65	61	57	60	56	54	51
4	82	72	64	58	78	69	62	57	64	58	54	59	54	50	54	50	47	45
5	76	65	57	51	73	63	55	50	58	52	47	54	49	45	50	46	42	40
6	71	59	51	46	67	57	50	44	53	47	42	49	44	40	46	41	38	36
7	66	54	46	41	63	52	45	40	49	42	38	45	40	36	42	38	34	32
8	62	50	42	37	59	48	41	36	45	39	35	42	37	33	39	35	31	29
9	58	46	38	34	55	44	38	33	42	36	31	39	34	30	36	32	29	27
10	54	43	35	31	52	41	35	30	39	33	29	36	31	28	34	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31752	31752	31752	31752
5°	35462	31951	28329	31951
10°	39346	31727	24556	31727
15°	41279	31263	19348	31263
20°	35787	30574	16744	30574
25°	23469	29630	14949	29630
30°	15797	28486	13530	28486
35°	12796	27045	12203	27045
40°	11377	25478	11291	25478
45°	10298	23640	10079	23640
50°	9372	21815	9339	21815
55°	8811	19792	8695	19792
60°	7369	17938	7282	17938
65°	6212	16290	7049	16290
70°	5740	14549	6647	14549
75°	5371	12664	6138	12664
80°	4956	10423	5467	10423
85°	4557	8225	4798	8225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	4.2
10°-20°	519.5	11.7
20°-30°	669.4	15.1
30°-40°	636.1	14.3
40°-50°	544.9	12.3
50°-60°	415.0	9.3
60°-70°	262.3	5.9
70°-80°	131.0	2.9
80°-90°	35.6	0.8
90°-100°	23.7	0.5
100°-110°	73.5	1.7
110°-120°	125.6	2.8
120°-130°	165.1	3.7
130°-140°	185.4	4.2
140°-150°	181.8	4.1
150°-160°	152.4	3.4
160°-170°	101.1	2.3
170°-180°	35.3	0.8
0°-30°	1375.3	30.9
0°-40°	2011.4	45.3
0°-60°	2971.3	66.9
0°-90°	3400.2	76.5
90°-120°	222.7	5.0
90°-150°	755.0	17.0
90°-180°	1044.0	23.5
0°-180°	4444.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1967	1967	1967	1967	1967	
5°	2188	1971	1748	1971	2188	216
15°	2470	1870	1158	1870	2470	666
25°	1317	1663	839	1663	1317	625
35°	649	1372	619	1372	649	415
45°	451	1035	441	1035	451	349
55°	313	703	309	703	313	275
65°	163	426	184	426	163	166
75°	86	203	98	203	86	91
85°	25	44	26	44	25	27
90°	11	0	11	0	11	6
95°	20	16	20	16	20	22
105°	70	68	70	68	70	74
115°	126	126	126	126	126	124
125°	184	183	184	183	184	164
135°	240	237	240	237	240	185
145°	291	288	291	288	291	182
155°	332	329	332	329	332	153
165°	359	358	359	358	359	101
175°	371	373	371	373	371	35
180°	373	373	373	373	373	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2046.4	2048.1	2049.7	2045.9	2045.9	2042.6	2035.5	2030.0	2014.7	2012.5	2012.5
5°	2188.0	2186.7	2189.3	2180.5	2168.2	2165.4	2152.5	2135.4	2117.6	2097.8	2093.7
7.5°	2328.8	2326.7	2321.2	2319.8	2310.3	2289.6	2268.8	2246.5	2217.0	2188.2	2173.6
10°	2399.9	2422.4	2408.7	2384.8	2389.6	2357.5	2340.4	2311.0	2286.4	2243.4	2233.8
12.5°	2469.8	2478.7	2474.3	2460.8	2454.6	2432.3	2409.2	2383.7	2338.3	2299.6	2266.0
15°	2469.5	2482.5	2485.9	2481.8	2485.3	2483.9	2471.6	2450.4	2410.7	2368.4	2331.5
17.5°	2287.2	2296.2	2318.6	2333.8	2353.0	2393.4	2413.3	2421.2	2415.3	2391.1	2365.1
20°	2082.8	2067.7	2130.6	2162.8	2190.0	2258.3	2317.1	2339.7	2375.9	2375.3	2368.4
22.5°	1793.1	1796.6	1856.2	1894.4	1974.2	2042.5	2109.4	2194.3	2264.4	2310.7	2337.8
25°	1317.4	1343.5	1402.8	1454.8	1543.6	1670.7	1786.2	1920.1	2046.6	2146.3	2241.3
27.5°	989.4	991.4	1038.5	1086.5	1139.2	1243.4	1388.8	1548.7	1728.9	1877.7	2048.7
30°	847.3	843.2	863.0	892.4	937.5	1018.2	1127.5	1284.7	1464.4	1688.5	1888.0
32.5°	746.7	747.0	761.9	783.6	821.1	875.5	950.4	1078.0	1247.9	1468.2	1702.2
35°	649.2	648.5	659.4	675.1	690.8	725.7	776.9	843.9	960.7	1166.4	1405.6
37.5°	579.2	582.2	587.5	597.4	614.7	634.1	664.9	709.8	793.1	914.7	1115.7
40°	539.8	541.2	548.7	556.9	567.1	582.2	607.4	643.7	704.5	801.6	948.4
42.5°	503.7	505.2	510.4	518.1	526.2	541.2	562.1	593.4	642.7	718.5	839.6
45°	451.0	451.0	455.8	459.2	468.1	481.7	498.8	524.8	558.9	615.0	695.6
47.5°	401.5	401.6	404.8	410.7	416.3	427.0	443.7	464.9	489.8	533.2	602.0
50°	373.1	373.8	375.9	380.6	384.1	393.6	406.6	425.0	451.0	484.5	541.9
52.5°	350.2	349.7	352.3	354.4	356.7	363.6	373.3	389.5	412.7	441.8	489.4
55°	313.0	310.2	314.3	317.7	319.8	322.5	328.0	338.2	358.0	382.6	418.2
57.5°	266.5	265.4	268.3	271.4	277.9	285.3	289.9	296.4	306.7	324.3	359.5
60°	228.2	228.2	234.3	236.4	244.0	253.5	263.1	268.6	278.8	290.4	316.4
62.5°	194.3	194.9	197.8	199.8	204.0	215.8	229.2	241.2	250.9	262.0	279.2
65°	162.6	164.0	164.0	165.3	168.1	170.9	176.3	185.8	203.0	218.6	231.7
67.5°	138.0	138.5	138.8	140.2	140.9	143.9	146.1	150.3	154.3	169.2	185.3
70°	121.6	123.7	123.0	124.4	125.0	126.4	129.1	131.2	137.3	140.8	150.3
72.5°	106.3	107.8	107.7	108.5	110.3	110.6	112.7	114.8	118.8	121.6	126.8
75°	86.1	85.4	86.1	87.5	88.2	88.8	88.8	91.6	93.6	96.3	99.8
77.5°	66.4	67.1	67.0	67.1	67.2	68.5	68.3	69.6	71.6	72.9	74.6
80°	53.3	53.9	53.3	53.9	54.7	55.4	54.7	55.4	57.4	58.8	58.8
82.5°	41.3	41.4	41.8	42.0	42.1	42.3	43.2	43.3	44.9	44.6	45.1
85°	24.6	23.9	23.9	23.9	24.6	25.3	24.6	24.6	25.3	25.3	25.3
87.5°	10.9	11.4	11.4	11.4	11.4	11.4	11.4	11.9	11.5	12.0	11.1
90°	10.7	10.6	10.6	10.5	10.4	10.4	10.6	10.8	10.9	11.1	9.5
92.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.1	10.1	10.1	10.0	9.6
95°	19.5	19.7	19.8	20.0	20.1	20.2	20.2	20.2	20.2	20.2	20.1
97.5°	33.8	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.6
100°	43.2	43.2	43.3	43.3	43.4	43.5	43.5	43.5	43.5	43.5	43.2
102.5°	53.8	53.9	53.9	53.9	54.0	54.0	53.9	53.9	53.9	53.8	53.5
105°	69.9	69.9	69.9	69.9	69.9	69.9	69.7	69.6	69.5	69.3	69.2
107.5°	85.2	85.5	85.9	86.1	86.5	86.6	86.6	86.5	86.4	86.4	86.4
110°	97.0	97.3	97.5	97.6	97.9	98.0	98.0	98.0	98.0	98.0	98.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	108.3	108.5	108.7	108.9	109.0	109.1	109.3	109.5	109.7	109.9	109.9
115°	126.0	126.3	126.4	126.6	126.9	127.0	127.1	127.2	127.2	127.2	127.4
117.5°	142.9	143.0	143.3	143.5	143.7	143.8	144.0	144.2	144.4	144.5	144.9
120°	154.7	154.9	155.1	155.3	155.5	155.6	155.6	155.6	155.6	155.6	156.2
122.5°	166.3	166.4	166.6	166.7	166.9	167.0	167.2	167.4	167.6	167.7	168.1
125°	184.0	184.0	184.1	184.2	184.2	184.4	184.6	184.9	185.0	185.2	185.5
127.5°	200.1	200.4	200.5	200.8	201.0	201.3	201.5	201.8	202.0	202.2	202.5
130°	211.7	212.0	212.2	212.6	212.9	213.0	213.2	213.3	213.5	213.6	213.7
132.5°	222.8	223.0	223.3	223.5	223.7	224.0	224.3	224.5	224.9	225.2	225.2
135°	240.0	240.3	240.5	240.7	240.9	241.0	241.1	241.2	241.2	241.3	241.2
137.5°	255.7	256.0	256.3	256.5	256.8	257.0	257.0	257.1	257.2	257.2	257.0
140°	266.5	266.8	267.1	267.3	267.6	267.8	267.8	267.8	267.8	267.8	267.4
142.5°	276.3	276.6	276.9	277.2	277.5	277.6	277.5	277.5	277.4	277.3	277.1
145°	291.1	291.4	291.7	291.9	292.2	292.3	292.2	292.2	292.1	292.0	291.6
147.5°	304.3	304.5	304.8	305.1	305.3	305.4	305.2	305.1	305.0	304.8	304.5
150°	312.8	313.1	313.3	313.4	313.7	313.7	313.4	313.3	313.1	312.8	312.5
152.5°	320.9	321.2	321.5	321.7	322.0	322.0	321.7	321.5	321.2	320.9	320.6
155°	331.7	332.0	332.2	332.3	332.6	332.5	332.2	331.8	331.4	331.1	330.9
157.5°	341.1	341.4	341.7	342.1	342.4	342.3	341.9	341.3	340.9	340.5	340.3
160°	346.9	347.1	347.4	347.7	347.9	347.9	347.5	347.1	346.6	346.3	346.2
162.5°	351.9	352.2	352.6	352.9	353.2	353.2	352.7	352.2	351.8	351.2	351.2
165°	358.6	358.8	359.2	359.5	359.9	359.8	359.4	358.8	358.4	357.8	357.8
167.5°	363.9	364.3	364.6	365.1	365.4	365.3	364.8	364.4	363.8	363.4	363.4
170°	366.7	367.1	367.6	368.0	368.4	368.4	367.8	367.4	366.8	366.4	366.5
172.5°	369.0	369.4	369.8	370.2	370.7	370.6	370.1	369.6	369.2	368.6	368.7
175°	371.4	371.8	372.3	372.7	373.1	373.1	372.6	372.1	371.6	371.1	371.2
177.5°	372.6	372.9	373.3	373.5	373.9	373.9	373.5	373.3	372.9	372.6	372.6
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2013.7	2009.2	2005.5	1995.6	1990.7	1979.7	1978.1	1977.5	1963.4	1949.6	1945.8
5°	2082.8	2071.8	2055.5	2036.3	2016.5	1996.0	1982.4	1971.4	1944.0	1918.1	1903.1
7.5°	2152.5	2129.0	2100.7	2064.5	2034.3	2000.4	1975.2	1952.7	1913.9	1876.7	1851.6
10°	2204.4	2166.1	2128.5	2078.7	2039.7	2001.4	1966.0	1935.2	1891.4	1842.3	1807.4
12.5°	2236.7	2194.6	2142.8	2094.0	2043.5	1994.9	1947.3	1907.8	1856.5	1805.6	1764.2
15°	2280.3	2235.2	2172.3	2102.6	2037.6	1974.2	1919.5	1870.3	1803.3	1742.5	1691.9
17.5°	2316.0	2253.9	2186.4	2105.8	2030.6	1949.8	1879.5	1816.6	1742.0	1668.7	1609.1
20°	2327.4	2265.9	2188.0	2107.4	2018.6	1923.6	1847.7	1779.4	1699.4	1619.4	1551.1
22.5°	2320.3	2272.4	2185.9	2089.4	1998.3	1899.0	1813.3	1734.0	1645.3	1563.7	1484.4
25°	2272.1	2255.7	2173.6	2068.4	1964.5	1849.1	1750.0	1663.2	1562.1	1474.6	1388.5
27.5°	2159.5	2194.9	2144.1	2032.0	1916.6	1792.8	1681.4	1582.6	1477.7	1379.2	1293.4
30°	2051.4	2132.6	2110.8	2006.9	1877.8	1756.1	1631.1	1527.9	1415.9	1314.7	1230.0
32.5°	1903.2	2037.6	2058.9	1971.9	1838.4	1704.8	1573.7	1471.1	1354.1	1247.5	1164.9
35°	1667.3	1868.2	1960.4	1905.1	1771.2	1627.0	1491.7	1372.1	1254.5	1149.3	1067.4
37.5°	1385.9	1659.6	1813.3	1817.2	1694.3	1544.4	1397.0	1278.3	1158.0	1054.6	966.0
40°	1203.4	1499.9	1700.1	1744.5	1640.7	1478.7	1329.7	1208.8	1091.3	990.2	888.3
42.5°	1039.4	1334.8	1580.9	1658.1	1575.7	1414.8	1265.2	1138.8	1024.6	928.9	824.9
45°	840.5	1098.8	1370.0	1508.1	1462.3	1313.3	1155.5	1035.3	927.9	845.3	745.5
47.5°	709.0	891.1	1153.6	1340.2	1339.4	1203.5	1048.2	933.0	833.5	756.0	675.3
50°	634.1	792.6	1014.8	1226.5	1244.3	1130.2	982.6	868.5	775.6	694.3	629.4
52.5°	566.9	697.5	897.2	1100.3	1150.8	1052.0	908.8	803.4	713.3	638.5	582.9
55°	479.0	580.1	731.8	921.8	998.4	928.6	801.6	703.1	630.0	567.1	519.3
57.5°	405.2	481.1	602.8	755.7	844.9	801.0	696.2	616.3	553.7	496.8	459.1
60°	358.7	420.9	524.1	651.9	750.3	719.5	630.0	555.5	502.2	453.1	417.5
62.5°	315.0	368.5	456.9	560.6	650.8	638.1	565.0	502.5	455.8	411.0	380.8
65°	253.5	292.5	361.5	442.8	515.2	521.4	468.8	426.4	384.7	349.2	322.5
67.5°	201.9	227.3	275.9	344.4	398.7	418.0	385.9	353.6	320.5	293.0	269.9
70°	170.1	190.6	226.1	281.5	331.4	351.9	333.5	308.2	279.5	256.9	237.1
72.5°	137.9	157.8	184.0	224.7	267.4	289.6	283.2	265.0	241.7	223.0	204.3
75°	103.9	110.0	127.8	155.2	188.6	207.8	212.5	203.0	184.5	170.1	159.2
77.5°	76.8	80.5	89.0	103.3	125.2	142.2	149.3	148.1	135.5	127.1	116.8
80°	61.5	63.6	67.7	73.8	90.2	107.3	112.1	112.1	103.2	99.8	89.5
82.5°	46.7	48.2	50.7	54.1	61.8	76.7	82.0	83.1	77.5	72.9	64.9
85°	26.7	25.9	27.4	29.4	30.8	34.9	43.1	44.4	43.1	37.5	35.5
87.5°	10.9	11.1	10.8	10.0	10.4	10.8	13.4	15.9	13.9	12.4	11.5
90°	7.9	6.4	4.9	3.7	2.9	2.0	1.2	0.4	1.2	2.0	2.9
92.5°	9.3	8.9	8.6	8.1	7.5	6.9	6.2	5.6	6.2	6.9	7.5
95°	19.9	19.7	19.6	19.2	18.5	17.7	17.1	16.4	17.1	17.7	18.5
97.5°	33.3	33.1	32.8	32.4	31.7	31.1	30.6	30.0	30.6	31.1	31.7
100°	43.1	42.8	42.6	42.3	41.7	41.1	40.6	40.0	40.6	41.1	41.7
102.5°	53.2	53.0	52.8	52.3	51.9	51.5	51.0	50.6	51.0	51.5	51.9
105°	69.0	68.9	68.8	68.6	68.4	68.1	67.9	67.8	67.9	68.1	68.4
107.5°	86.4	86.4	86.4	86.2	86.0	85.6	85.3	85.0	85.3	85.6	86.0
110°	98.0	98.0	98.0	97.7	97.4	96.9	96.5	96.1	96.5	96.9	97.4



TEST NUMBER: P331736-940

CATALOG NUMBER: SA2XXRDIP-C1005D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	109.9	109.9	110.0	109.9	109.4	109.1	108.6	108.2	108.6	109.1	109.4
115°	127.5	127.7	127.9	127.7	127.2	126.9	126.4	126.0	126.4	126.9	127.2
117.5°	145.3	145.7	146.2	146.1	145.4	144.9	144.4	143.7	144.4	144.9	145.4
120°	156.8	157.3	157.8	157.8	157.3	156.8	156.2	155.6	156.2	156.8	157.3
122.5°	168.5	168.9	169.3	169.2	168.4	167.8	167.1	166.5	167.1	167.8	168.4
125°	185.7	185.8	186.1	185.8	185.2	184.6	184.0	183.3	184.0	184.6	185.2
127.5°	202.8	203.0	203.2	203.0	202.2	201.4	200.6	199.8	200.6	201.4	202.2
130°	213.9	214.0	214.2	213.7	212.9	212.0	211.1	210.2	211.1	212.0	212.9
132.5°	225.2	225.1	225.1	224.7	223.9	223.2	222.5	221.8	222.5	223.2	223.9
135°	241.0	240.9	240.8	240.3	239.5	238.8	238.0	237.2	238.0	238.8	239.5
137.5°	256.8	256.6	256.5	256.1	255.5	254.8	254.1	253.5	254.1	254.8	255.5
140°	267.1	266.7	266.4	265.9	265.3	264.7	264.0	263.4	264.0	264.7	265.3
142.5°	276.9	276.6	276.4	276.0	275.4	274.7	274.1	273.5	274.1	274.7	275.4
145°	291.2	290.8	290.3	289.9	289.4	288.9	288.5	287.9	288.5	288.9	289.4
147.5°	304.3	303.9	303.6	303.2	302.6	302.0	301.5	300.9	301.5	302.0	302.6
150°	312.3	312.0	311.7	311.4	310.9	310.5	310.1	309.7	310.1	310.5	310.9
152.5°	320.2	319.9	319.6	319.1	318.8	318.3	317.9	317.5	317.9	318.3	318.8
155°	330.6	330.5	330.3	330.0	329.8	329.7	329.4	329.2	329.4	329.7	329.8
157.5°	340.2	340.1	339.9	339.8	339.7	339.5	339.4	339.2	339.4	339.5	339.7
160°	346.1	346.0	346.0	345.8	345.7	345.5	345.4	345.3	345.4	345.5	345.7
162.5°	351.2	351.1	351.0	351.0	350.9	350.9	350.9	350.8	350.9	350.9	350.9
165°	357.8	357.8	357.8	357.9	358.0	358.0	358.1	358.2	358.1	358.0	358.0
167.5°	363.4	363.4	363.5	363.6	363.7	364.0	364.2	364.4	364.2	364.0	363.7
170°	366.5	366.6	366.7	366.8	367.0	367.2	367.5	367.7	367.5	367.2	367.0
172.5°	368.8	368.9	368.9	369.1	369.3	369.5	369.7	369.9	369.7	369.5	369.3
175°	371.4	371.6	371.7	371.8	372.0	372.3	372.5	372.7	372.5	372.3	372.0
177.5°	372.8	372.9	373.0	373.2	373.4	373.4	373.6	373.8	373.6	373.4	373.4
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4



TEST NUMBER: P331736-940

CATALOG NUMBER: SA2XXRDIP-C1005D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1938.8	1934.9	1927.8	1916.8	1910.3	1898.8	1891.1	1895.5	1896.7	1895.5	1894.4
5°	1886.7	1872.3	1852.5	1833.4	1815.6	1796.4	1785.6	1780.7	1771.2	1765.7	1763.0
7.5°	1823.6	1798.9	1770.9	1737.6	1709.2	1679.6	1664.5	1656.9	1637.4	1626.7	1617.4
10°	1776.6	1737.7	1709.7	1666.0	1639.3	1600.4	1573.7	1574.4	1547.7	1532.7	1521.8
12.5°	1724.7	1681.9	1635.3	1596.0	1559.0	1527.7	1495.5	1482.6	1454.3	1439.8	1410.2
15°	1638.6	1588.8	1539.5	1486.2	1448.7	1400.2	1353.7	1297.0	1251.2	1211.6	1200.6
17.5°	1544.6	1482.8	1433.5	1370.9	1306.5	1224.9	1171.1	1138.2	1110.5	1089.7	1074.1
20°	1480.1	1417.2	1364.6	1270.3	1183.5	1128.2	1088.5	1063.3	1034.6	1012.0	999.7
22.5°	1412.3	1346.7	1275.0	1169.7	1102.1	1057.7	1022.3	993.3	973.8	956.3	945.0
25°	1316.1	1244.3	1126.1	1053.6	999.0	952.5	927.9	910.2	889.7	865.8	854.9
27.5°	1214.4	1100.3	1015.4	961.5	909.4	879.1	857.0	830.5	812.2	801.4	790.1
30°	1138.4	1024.3	958.1	899.3	862.4	828.8	802.9	787.9	770.1	751.6	744.1
32.5°	1053.6	962.5	899.0	850.1	812.6	784.1	763.6	739.2	726.4	715.1	699.3
35°	948.4	879.4	821.4	781.8	746.2	723.0	699.0	684.7	661.5	651.9	645.8
37.5°	859.3	799.5	756.2	714.3	686.2	660.5	645.9	623.0	613.0	599.7	586.7
40°	809.0	750.3	708.6	674.4	643.0	623.8	605.4	587.0	571.9	565.8	550.1
42.5°	757.7	709.8	668.2	630.7	609.7	589.4	566.1	552.5	537.0	527.0	517.3
45°	686.7	644.4	608.9	578.1	554.8	533.7	518.6	496.1	487.2	467.4	459.2
47.5°	624.5	585.1	551.2	521.9	499.3	485.4	463.4	445.8	431.6	419.5	408.9
50°	580.1	547.3	514.5	488.6	468.1	448.3	425.7	416.8	394.9	388.8	382.6
52.5°	539.7	508.5	478.5	453.1	432.6	413.3	393.4	381.8	367.1	361.0	356.4
55°	483.1	453.1	424.4	401.8	381.3	361.5	349.2	334.8	328.0	323.2	317.7
57.5°	426.2	399.2	377.2	354.4	333.8	318.0	303.8	295.2	288.1	281.8	275.3
60°	390.2	364.2	344.4	323.2	302.0	289.0	278.1	267.9	259.7	250.1	247.4
62.5°	351.9	329.2	311.0	290.4	272.0	260.1	249.7	240.0	230.2	216.2	212.4
65°	299.3	281.5	262.4	245.3	228.9	217.3	202.2	191.4	187.3	185.8	185.2
67.5°	251.7	235.0	218.6	201.0	186.1	175.3	167.7	166.0	163.2	162.4	160.4
70°	220.1	204.3	187.9	171.5	157.2	155.2	152.4	149.6	146.2	144.9	143.5
72.5°	191.6	175.3	158.9	145.8	139.6	137.1	134.4	131.6	129.3	128.0	127.1
75°	147.0	131.9	120.9	116.2	112.7	110.7	106.6	104.5	103.2	101.1	100.4
77.5°	105.8	97.3	92.3	89.3	85.7	83.5	81.1	79.1	77.7	77.2	76.2
80°	80.6	76.5	73.1	69.0	67.7	64.9	64.2	62.2	62.9	60.8	60.8
82.5°	62.6	57.4	54.6	52.6	51.3	49.0	48.4	47.4	47.5	46.0	46.0
85°	32.1	30.8	29.4	28.0	28.0	25.9	26.7	25.9	25.9	24.6	23.9
87.5°	11.1	10.8	10.0	10.3	10.6	10.4	10.3	9.8	9.8	9.7	9.2
90°	3.7	4.9	6.4	7.9	9.5	11.1	10.9	10.8	10.6	10.4	10.4
92.5°	8.1	8.6	8.9	9.3	9.6	10.0	10.1	10.1	10.1	10.2	10.2
95°	19.2	19.6	19.7	19.9	20.1	20.2	20.2	20.2	20.2	20.2	20.1
97.5°	32.4	32.8	33.1	33.3	33.6	33.9	33.9	33.9	33.9	33.9	33.9
100°	42.3	42.6	42.8	43.1	43.2	43.5	43.5	43.5	43.5	43.5	43.4
102.5°	52.3	52.8	53.0	53.2	53.5	53.8	53.9	53.9	53.9	54.0	54.0
105°	68.6	68.8	68.9	69.0	69.2	69.3	69.5	69.6	69.7	69.9	69.9
107.5°	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.5	86.6	86.6	86.5
110°	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	97.9



TEST NUMBER: P331736-940

CATALOG NUMBER: SA2XXRDIP-C1005D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	109.9	110.0	109.9	109.9	109.9	109.9	109.7	109.5	109.3	109.1	109.0
115°	127.7	127.9	127.7	127.5	127.4	127.2	127.2	127.2	127.1	127.0	126.9
117.5°	146.1	146.2	145.7	145.3	144.9	144.5	144.4	144.2	144.0	143.8	143.7
120°	157.8	157.8	157.3	156.8	156.2	155.6	155.6	155.6	155.6	155.6	155.5
122.5°	169.2	169.3	168.9	168.5	168.1	167.7	167.6	167.4	167.2	167.0	166.9
125°	185.8	186.1	185.8	185.7	185.5	185.2	185.0	184.9	184.6	184.4	184.2
127.5°	203.0	203.2	203.0	202.8	202.5	202.2	202.0	201.8	201.5	201.3	201.0
130°	213.7	214.2	214.0	213.9	213.7	213.6	213.5	213.3	213.2	213.0	212.9
132.5°	224.7	225.1	225.1	225.2	225.2	225.2	224.9	224.5	224.3	224.0	223.7
135°	240.3	240.8	240.9	241.0	241.2	241.3	241.2	241.2	241.1	241.0	240.9
137.5°	256.1	256.5	256.6	256.8	257.0	257.2	257.2	257.1	257.0	257.0	256.8
140°	265.9	266.4	266.7	267.1	267.4	267.8	267.8	267.8	267.8	267.8	267.6
142.5°	276.0	276.4	276.6	276.9	277.1	277.3	277.4	277.5	277.5	277.6	277.5
145°	289.9	290.3	290.8	291.2	291.6	292.0	292.1	292.2	292.2	292.3	292.2
147.5°	303.2	303.6	303.9	304.3	304.5	304.8	305.0	305.1	305.2	305.4	305.3
150°	311.4	311.7	312.0	312.3	312.5	312.8	313.1	313.3	313.4	313.7	313.7
152.5°	319.1	319.6	319.9	320.2	320.6	320.9	321.2	321.5	321.7	322.0	322.0
155°	330.0	330.3	330.5	330.6	330.9	331.1	331.4	331.8	332.2	332.5	332.6
157.5°	339.8	339.9	340.1	340.2	340.3	340.5	340.9	341.3	341.9	342.3	342.4
160°	345.8	346.0	346.0	346.1	346.2	346.3	346.6	347.1	347.5	347.9	347.9
162.5°	351.0	351.0	351.1	351.2	351.2	351.2	351.8	352.2	352.7	353.2	353.2
165°	357.9	357.8	357.8	357.8	357.8	357.8	358.4	358.8	359.4	359.8	359.9
167.5°	363.6	363.5	363.4	363.4	363.4	363.4	363.8	364.4	364.8	365.3	365.4
170°	366.8	366.7	366.6	366.5	366.5	366.4	366.8	367.4	367.8	368.4	368.4
172.5°	369.1	368.9	368.9	368.8	368.7	368.6	369.2	369.6	370.1	370.6	370.7
175°	371.8	371.7	371.6	371.4	371.2	371.1	371.6	372.1	372.6	373.1	373.1
177.5°	373.2	373.0	372.9	372.8	372.6	372.6	372.9	373.3	373.5	373.9	373.9
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4



TEST NUMBER: P331736-940

CATALOG NUMBER: SA2XXRDIP-C1005D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1888.5	1889.5	1887.9	1889.0	1887.9	1889.5	1888.5	1894.4	1895.5	1896.7	1895.5
5°	1759.5	1751.3	1750.0	1747.9	1750.0	1751.3	1759.5	1763.0	1765.7	1771.2	1780.7
7.5°	1605.7	1604.5	1601.1	1596.3	1601.1	1604.5	1605.7	1617.4	1626.7	1637.4	1656.9
10°	1506.7	1503.3	1502.6	1497.8	1502.6	1503.3	1506.7	1521.8	1532.7	1547.7	1574.4
12.5°	1390.8	1368.9	1366.5	1354.6	1366.5	1368.9	1390.8	1410.2	1439.8	1454.3	1482.6
15°	1184.2	1180.1	1166.4	1157.5	1166.4	1180.1	1184.2	1200.6	1211.6	1251.2	1297.0
17.5°	1066.1	1052.8	1048.5	1046.6	1048.5	1052.8	1066.1	1074.1	1089.7	1110.5	1138.2
20°	990.2	977.9	975.8	974.5	975.8	977.9	990.2	999.7	1012.0	1034.6	1063.3
22.5°	937.6	924.8	919.4	915.3	919.4	924.8	937.6	945.0	956.3	973.8	993.3
25°	848.0	843.2	840.5	839.1	840.5	843.2	848.0	854.9	865.8	889.7	910.2
27.5°	777.9	767.4	765.4	761.8	765.4	767.4	777.9	790.1	801.4	812.2	830.5
30°	738.0	734.6	729.8	725.7	729.8	734.6	738.0	744.1	751.6	770.1	787.9
32.5°	691.0	688.1	683.9	682.0	683.9	688.1	691.0	699.3	715.1	726.4	739.2
35°	638.9	629.4	625.3	619.1	625.3	629.4	638.9	645.8	651.9	661.5	684.7
37.5°	583.8	578.8	573.0	575.1	573.0	578.8	583.8	586.7	599.7	613.0	623.0
40°	541.2	537.8	536.5	535.7	536.5	537.8	541.2	550.1	565.8	571.9	587.0
42.5°	507.3	497.8	494.3	494.2	494.3	497.8	507.3	517.3	527.0	537.0	552.5
45°	455.8	446.9	440.8	441.4	440.8	446.9	455.8	459.2	467.4	487.2	496.1
47.5°	403.1	402.8	399.0	400.1	399.0	402.8	403.1	408.9	419.5	431.6	445.8
50°	377.9	373.8	371.0	371.8	371.0	373.8	377.9	382.6	388.8	394.9	416.8
52.5°	353.8	350.3	348.1	351.0	348.1	350.3	353.8	356.4	361.0	367.1	381.8
55°	314.3	310.2	309.5	308.9	309.5	310.2	314.3	317.7	323.2	328.0	334.8
57.5°	270.2	267.4	263.3	261.5	263.3	267.4	270.2	275.3	281.8	288.1	295.2
60°	238.4	233.0	226.1	225.5	226.1	233.0	238.4	247.4	250.1	259.7	267.9
62.5°	209.5	208.4	207.1	206.9	207.1	208.4	209.5	212.4	216.2	230.2	240.0
65°	183.8	183.2	183.8	184.5	183.8	183.2	183.8	185.2	185.8	187.3	191.4
67.5°	160.2	158.9	157.7	158.3	157.7	158.9	160.2	160.4	162.4	163.2	166.0
70°	142.1	141.4	140.8	140.8	140.8	141.4	142.1	143.5	144.9	146.2	149.6
72.5°	124.7	124.5	123.9	123.2	123.9	124.5	124.7	127.1	128.0	129.3	131.6
75°	99.8	98.4	98.4	98.4	98.4	98.4	99.8	100.4	101.1	103.2	104.5
77.5°	76.0	75.3	74.6	74.1	74.6	75.3	76.0	76.2	77.2	77.7	79.1
80°	60.1	59.5	58.8	58.8	58.8	59.5	60.1	60.8	60.8	62.9	62.2
82.5°	45.9	45.2	45.1	44.6	45.1	45.2	45.9	46.0	46.0	47.5	47.4
85°	24.6	25.3	24.6	25.9	24.6	25.3	24.6	23.9	24.6	25.9	25.9
87.5°	9.2	8.6	9.3	8.7	9.3	8.6	9.2	9.2	9.7	9.8	9.8
90°	10.5	10.6	10.6	10.7	10.6	10.6	10.5	10.4	10.4	10.6	10.8
92.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.1	10.1
95°	20.0	19.8	19.7	19.5	19.7	19.8	20.0	20.1	20.2	20.2	20.2
97.5°	33.9	33.9	33.9	33.8	33.9	33.9	33.9	33.9	33.9	33.9	33.9
100°	43.3	43.3	43.2	43.2	43.2	43.3	43.3	43.4	43.5	43.5	43.5
102.5°	53.9	53.9	53.9	53.8	53.9	53.9	53.9	54.0	54.0	53.9	53.9
105°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.7	69.6
107.5°	86.1	85.9	85.5	85.2	85.5	85.9	86.1	86.5	86.6	86.6	86.5
110°	97.6	97.5	97.3	97.0	97.3	97.5	97.6	97.9	98.0	98.0	98.0



TEST NUMBER: P331736-940

CATALOG NUMBER: SA2XXRDIP-C1005D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	108.9	108.7	108.5	108.3	108.5	108.7	108.9	109.0	109.1	109.3	109.5
115°	126.6	126.4	126.3	126.0	126.3	126.4	126.6	126.9	127.0	127.1	127.2
117.5°	143.5	143.3	143.0	142.9	143.0	143.3	143.5	143.7	143.8	144.0	144.2
120°	155.3	155.1	154.9	154.7	154.9	155.1	155.3	155.5	155.6	155.6	155.6
122.5°	166.7	166.6	166.4	166.3	166.4	166.6	166.7	166.9	167.0	167.2	167.4
125°	184.2	184.1	184.0	184.0	184.0	184.1	184.2	184.2	184.4	184.6	184.9
127.5°	200.8	200.5	200.4	200.1	200.4	200.5	200.8	201.0	201.3	201.5	201.8
130°	212.6	212.2	212.0	211.7	212.0	212.2	212.6	212.9	213.0	213.2	213.3
132.5°	223.5	223.3	223.0	222.8	223.0	223.3	223.5	223.7	224.0	224.3	224.5
135°	240.7	240.5	240.3	240.0	240.3	240.5	240.7	240.9	241.0	241.1	241.2
137.5°	256.5	256.3	256.0	255.7	256.0	256.3	256.5	256.8	257.0	257.0	257.1
140°	267.3	267.1	266.8	266.5	266.8	267.1	267.3	267.6	267.8	267.8	267.8
142.5°	277.2	276.9	276.6	276.3	276.6	276.9	277.2	277.5	277.6	277.5	277.5
145°	291.9	291.7	291.4	291.1	291.4	291.7	291.9	292.2	292.3	292.2	292.2
147.5°	305.1	304.8	304.5	304.3	304.5	304.8	305.1	305.3	305.4	305.2	305.1
150°	313.4	313.3	313.1	312.8	313.1	313.3	313.4	313.7	313.7	313.4	313.3
152.5°	321.7	321.5	321.2	320.9	321.2	321.5	321.7	322.0	322.0	321.7	321.5
155°	332.3	332.2	332.0	331.7	332.0	332.2	332.3	332.6	332.5	332.2	331.8
157.5°	342.1	341.7	341.4	341.1	341.4	341.7	342.1	342.4	342.3	341.9	341.3
160°	347.7	347.4	347.1	346.9	347.1	347.4	347.7	347.9	347.9	347.5	347.1
162.5°	352.9	352.6	352.2	351.9	352.2	352.6	352.9	353.2	353.2	352.7	352.2
165°	359.5	359.2	358.8	358.6	358.8	359.2	359.5	359.9	359.8	359.4	358.8
167.5°	365.1	364.6	364.3	363.9	364.3	364.6	365.1	365.4	365.3	364.8	364.4
170°	368.0	367.6	367.1	366.7	367.1	367.6	368.0	368.4	368.4	367.8	367.4
172.5°	370.2	369.8	369.4	369.0	369.4	369.8	370.2	370.7	370.6	370.1	369.6
175°	372.7	372.3	371.8	371.4	371.8	372.3	372.7	373.1	373.1	372.6	372.1
177.5°	373.5	373.3	372.9	372.6	372.9	373.3	373.5	373.9	373.9	373.5	373.3
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4



TEST NUMBER: P331736-940

CATALOG NUMBER: SA2XXRDIP-C1005D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1891.1	1898.8	1910.3	1916.8	1927.8	1934.9	1938.8	1945.8	1949.6	1963.4	1977.5
5°	1785.6	1796.4	1815.6	1833.4	1852.5	1872.3	1886.7	1903.1	1918.1	1944.0	1971.4
7.5°	1664.5	1679.6	1709.2	1737.6	1770.9	1798.9	1823.6	1851.6	1876.7	1913.9	1952.7
10°	1573.7	1600.4	1639.3	1666.0	1709.7	1737.7	1776.6	1807.4	1842.3	1891.4	1935.2
12.5°	1495.5	1527.7	1559.0	1596.0	1635.3	1681.9	1724.7	1764.2	1805.6	1856.5	1907.8
15°	1353.7	1400.2	1448.7	1486.2	1539.5	1588.8	1638.6	1691.9	1742.5	1803.3	1870.3
17.5°	1171.1	1224.9	1306.5	1370.9	1433.5	1482.8	1544.6	1609.1	1668.7	1742.0	1816.6
20°	1088.5	1128.2	1183.5	1270.3	1364.6	1417.2	1480.1	1551.1	1619.4	1699.4	1779.4
22.5°	1022.3	1057.7	1102.1	1169.7	1275.0	1346.7	1412.3	1484.4	1563.7	1645.3	1734.0
25°	927.9	952.5	999.0	1053.6	1126.1	1244.3	1316.1	1388.5	1474.6	1562.1	1663.2
27.5°	857.0	879.1	909.4	961.5	1015.4	1100.3	1214.4	1293.4	1379.2	1477.7	1582.6
30°	802.9	828.8	862.4	899.3	958.1	1024.3	1138.4	1230.0	1314.7	1415.9	1527.9
32.5°	763.6	784.1	812.6	850.1	899.0	962.5	1053.6	1164.9	1247.5	1354.1	1471.1
35°	699.0	723.0	746.2	781.8	821.4	879.4	948.4	1067.4	1149.3	1254.5	1372.1
37.5°	645.9	660.5	686.2	714.3	756.2	799.5	859.3	966.0	1054.6	1158.0	1278.3
40°	605.4	623.8	643.0	674.4	708.6	750.3	809.0	888.3	990.2	1091.3	1208.8
42.5°	566.1	589.4	609.7	630.7	668.2	709.8	757.7	824.9	928.9	1024.6	1138.8
45°	518.6	533.7	554.8	578.1	608.9	644.4	686.7	745.5	845.3	927.9	1035.3
47.5°	463.4	485.4	499.3	521.9	551.2	585.1	624.5	675.3	756.0	833.5	933.0
50°	425.7	448.3	468.1	488.6	514.5	547.3	580.1	629.4	694.3	775.6	868.5
52.5°	393.4	413.3	432.6	453.1	478.5	508.5	539.7	582.9	638.5	713.3	803.4
55°	349.2	361.5	381.3	401.8	424.4	453.1	483.1	519.3	567.1	630.0	703.1
57.5°	303.8	318.0	333.8	354.4	377.2	399.2	426.2	459.1	496.8	553.7	616.3
60°	278.1	289.0	302.0	323.2	344.4	364.2	390.2	417.5	453.1	502.2	555.5
62.5°	249.7	260.1	272.0	290.4	311.0	329.2	351.9	380.8	411.0	455.8	502.5
65°	202.2	217.3	228.9	245.3	262.4	281.5	299.3	322.5	349.2	384.7	426.4
67.5°	167.7	175.3	186.1	201.0	218.6	235.0	251.7	269.9	293.0	320.5	353.6
70°	152.4	155.2	157.2	171.5	187.9	204.3	220.1	237.1	256.9	279.5	308.2
72.5°	134.4	137.1	139.6	145.8	158.9	175.3	191.6	204.3	223.0	241.7	265.0
75°	106.6	110.7	112.7	116.2	120.9	131.9	147.0	159.2	170.1	184.5	203.0
77.5°	81.1	83.5	85.7	89.3	92.3	97.3	105.8	116.8	127.1	135.5	148.1
80°	64.2	64.9	67.7	69.0	73.1	76.5	80.6	89.5	99.8	103.2	112.1
82.5°	48.4	49.0	51.3	52.6	54.6	57.4	62.6	64.9	72.9	77.5	83.1
85°	26.7	25.9	28.0	28.0	29.4	30.8	32.1	35.5	37.5	43.1	44.4
87.5°	10.3	10.4	10.6	10.3	10.0	10.8	11.1	11.5	12.4	13.9	15.9
90°	10.9	11.1	9.5	7.9	6.4	4.9	3.7	2.9	2.0	1.2	0.4
92.5°	10.1	10.0	9.6	9.3	8.9	8.6	8.1	7.5	6.9	6.2	5.6
95°	20.2	20.2	20.1	19.9	19.7	19.6	19.2	18.5	17.7	17.1	16.4
97.5°	33.9	33.9	33.6	33.3	33.1	32.8	32.4	31.7	31.1	30.6	30.0
100°	43.5	43.5	43.2	43.1	42.8	42.6	42.3	41.7	41.1	40.6	40.0
102.5°	53.9	53.8	53.5	53.2	53.0	52.8	52.3	51.9	51.5	51.0	50.6
105°	69.5	69.3	69.2	69.0	68.9	68.8	68.6	68.4	68.1	67.9	67.8
107.5°	86.4	86.4	86.4	86.4	86.4	86.4	86.2	86.0	85.6	85.3	85.0
110°	98.0	98.0	98.0	98.0	98.0	98.0	97.7	97.4	96.9	96.5	96.1



TEST NUMBER: P331736-940

CATALOG NUMBER: SA2XXRDIP-C1005D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	109.7	109.9	109.9	109.9	109.9	110.0	109.9	109.4	109.1	108.6	108.2
115°	127.2	127.2	127.4	127.5	127.7	127.9	127.7	127.2	126.9	126.4	126.0
117.5°	144.4	144.5	144.9	145.3	145.7	146.2	146.1	145.4	144.9	144.4	143.7
120°	155.6	155.6	156.2	156.8	157.3	157.8	157.8	157.3	156.8	156.2	155.6
122.5°	167.6	167.7	168.1	168.5	168.9	169.3	169.2	168.4	167.8	167.1	166.5
125°	185.0	185.2	185.5	185.7	185.8	186.1	185.8	185.2	184.6	184.0	183.3
127.5°	202.0	202.2	202.5	202.8	203.0	203.2	203.0	202.2	201.4	200.6	199.8
130°	213.5	213.6	213.7	213.9	214.0	214.2	213.7	212.9	212.0	211.1	210.2
132.5°	224.9	225.2	225.2	225.2	225.1	225.1	224.7	223.9	223.2	222.5	221.8
135°	241.2	241.3	241.2	241.0	240.9	240.8	240.3	239.5	238.8	238.0	237.2
137.5°	257.2	257.2	257.0	256.8	256.6	256.5	256.1	255.5	254.8	254.1	253.5
140°	267.8	267.8	267.4	267.1	266.7	266.4	265.9	265.3	264.7	264.0	263.4
142.5°	277.4	277.3	277.1	276.9	276.6	276.4	276.0	275.4	274.7	274.1	273.5
145°	292.1	292.0	291.6	291.2	290.8	290.3	289.9	289.4	288.9	288.5	287.9
147.5°	305.0	304.8	304.5	304.3	303.9	303.6	303.2	302.6	302.0	301.5	300.9
150°	313.1	312.8	312.5	312.3	312.0	311.7	311.4	310.9	310.5	310.1	309.7
152.5°	321.2	320.9	320.6	320.2	319.9	319.6	319.1	318.8	318.3	317.9	317.5
155°	331.4	331.1	330.9	330.6	330.5	330.3	330.0	329.8	329.7	329.4	329.2
157.5°	340.9	340.5	340.3	340.2	340.1	339.9	339.8	339.7	339.5	339.4	339.2
160°	346.6	346.3	346.2	346.1	346.0	346.0	345.8	345.7	345.5	345.4	345.3
162.5°	351.8	351.2	351.2	351.2	351.1	351.0	351.0	350.9	350.9	350.9	350.8
165°	358.4	357.8	357.8	357.8	357.8	357.8	357.9	358.0	358.0	358.1	358.2
167.5°	363.8	363.4	363.4	363.4	363.4	363.5	363.6	363.7	364.0	364.2	364.4
170°	366.8	366.4	366.5	366.5	366.6	366.7	366.8	367.0	367.2	367.5	367.7
172.5°	369.2	368.6	368.7	368.8	368.9	368.9	369.1	369.3	369.5	369.7	369.9
175°	371.6	371.1	371.2	371.4	371.6	371.7	371.8	372.0	372.3	372.5	372.7
177.5°	372.9	372.6	372.6	372.8	372.9	373.0	373.2	373.4	373.4	373.6	373.8
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4



TEST NUMBER: P331736-940

CATALOG NUMBER: SA2XXRDIP-C1005D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1978.1	1979.7	1990.7	1995.6	2005.5	2009.2	2013.7	2012.5	2012.5	2014.7	2030.0
5°	1982.4	1996.0	2016.5	2036.3	2055.5	2071.8	2082.8	2093.7	2097.8	2117.6	2135.4
7.5°	1975.2	2000.4	2034.3	2064.5	2100.7	2129.0	2152.5	2173.6	2188.2	2217.0	2246.5
10°	1966.0	2001.4	2039.7	2078.7	2128.5	2166.1	2204.4	2233.8	2243.4	2286.4	2311.0
12.5°	1947.3	1994.9	2043.5	2094.0	2142.8	2194.6	2236.7	2266.0	2299.6	2338.3	2383.7
15°	1919.5	1974.2	2037.6	2102.6	2172.3	2235.2	2280.3	2331.5	2368.4	2410.7	2450.4
17.5°	1879.5	1949.8	2030.6	2105.8	2186.4	2253.9	2316.0	2365.1	2391.1	2415.3	2421.2
20°	1847.7	1923.6	2018.6	2107.4	2188.0	2265.9	2327.4	2368.4	2375.3	2375.9	2339.7
22.5°	1813.3	1899.0	1998.3	2089.4	2185.9	2272.4	2320.3	2337.8	2310.7	2264.4	2194.3
25°	1750.0	1849.1	1964.5	2068.4	2173.6	2255.7	2272.1	2241.3	2146.3	2046.6	1920.1
27.5°	1681.4	1792.8	1916.6	2032.0	2144.1	2194.9	2159.5	2048.7	1877.7	1728.9	1548.7
30°	1631.1	1756.1	1877.8	2006.9	2110.8	2132.6	2051.4	1888.0	1688.5	1464.4	1284.7
32.5°	1573.7	1704.8	1838.4	1971.9	2058.9	2037.6	1903.2	1702.2	1468.2	1247.9	1078.0
35°	1491.7	1627.0	1771.2	1905.1	1960.4	1868.2	1667.3	1405.6	1166.4	960.7	843.9
37.5°	1397.0	1544.4	1694.3	1817.2	1813.3	1659.6	1385.9	1115.7	914.7	793.1	709.8
40°	1329.7	1478.7	1640.7	1744.5	1700.1	1499.9	1203.4	948.4	801.6	704.5	643.7
42.5°	1265.2	1414.8	1575.7	1658.1	1580.9	1334.8	1039.4	839.6	718.5	642.7	593.4
45°	1155.5	1313.3	1462.3	1508.1	1370.0	1098.8	840.5	695.6	615.0	558.9	524.8
47.5°	1048.2	1203.5	1339.4	1340.2	1153.6	891.1	709.0	602.0	533.2	489.8	464.9
50°	982.6	1130.2	1244.3	1226.5	1014.8	792.6	634.1	541.9	484.5	451.0	425.0
52.5°	908.8	1052.0	1150.8	1100.3	897.2	697.5	566.9	489.4	441.8	412.7	389.5
55°	801.6	928.6	998.4	921.8	731.8	580.1	479.0	418.2	382.6	358.0	338.2
57.5°	696.2	801.0	844.9	755.7	602.8	481.1	405.2	359.5	324.3	306.7	296.4
60°	630.0	719.5	750.3	651.9	524.1	420.9	358.7	316.4	290.4	278.8	268.6
62.5°	565.0	638.1	650.8	560.6	456.9	368.5	315.0	279.2	262.0	250.9	241.2
65°	468.8	521.4	515.2	442.8	361.5	292.5	253.5	231.7	218.6	203.0	185.8
67.5°	385.9	418.0	398.7	344.4	275.9	227.3	201.9	185.3	169.2	154.3	150.3
70°	333.5	351.9	331.4	281.5	226.1	190.6	170.1	150.3	140.8	137.3	131.2
72.5°	283.2	289.6	267.4	224.7	184.0	157.8	137.9	126.8	121.6	118.8	114.8
75°	212.5	207.8	188.6	155.2	127.8	110.0	103.9	99.8	96.3	93.6	91.6
77.5°	149.3	142.2	125.2	103.3	89.0	80.5	76.8	74.6	72.9	71.6	69.6
80°	112.1	107.3	90.2	73.8	67.7	63.6	61.5	58.8	58.8	57.4	55.4
82.5°	82.0	76.7	61.8	54.1	50.7	48.2	46.7	45.1	44.6	44.9	43.3
85°	43.1	34.9	30.8	29.4	27.4	25.9	26.7	25.3	25.3	25.3	24.6
87.5°	13.4	10.8	10.4	10.0	10.8	11.1	10.9	11.1	12.0	11.5	11.9
90°	1.2	2.0	2.9	3.7	4.9	6.4	7.9	9.5	11.1	10.9	10.8
92.5°	6.2	6.9	7.5	8.1	8.6	8.9	9.3	9.6	10.0	10.1	10.1
95°	17.1	17.7	18.5	19.2	19.6	19.7	19.9	20.1	20.2	20.2	20.2
97.5°	30.6	31.1	31.7	32.4	32.8	33.1	33.3	33.6	33.9	33.9	33.9
100°	40.6	41.1	41.7	42.3	42.6	42.8	43.1	43.2	43.5	43.5	43.5
102.5°	51.0	51.5	51.9	52.3	52.8	53.0	53.2	53.5	53.8	53.9	53.9
105°	67.9	68.1	68.4	68.6	68.8	68.9	69.0	69.2	69.3	69.5	69.6
107.5°	85.3	85.6	86.0	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.5
110°	96.5	96.9	97.4	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	108.6	109.1	109.4	109.9	110.0	109.9	109.9	109.9	109.9	109.7	109.5
115°	126.4	126.9	127.2	127.7	127.9	127.7	127.5	127.4	127.2	127.2	127.2
117.5°	144.4	144.9	145.4	146.1	146.2	145.7	145.3	144.9	144.5	144.4	144.2
120°	156.2	156.8	157.3	157.8	157.8	157.3	156.8	156.2	155.6	155.6	155.6
122.5°	167.1	167.8	168.4	169.2	169.3	168.9	168.5	168.1	167.7	167.6	167.4
125°	184.0	184.6	185.2	185.8	186.1	185.8	185.7	185.5	185.2	185.0	184.9
127.5°	200.6	201.4	202.2	203.0	203.2	203.0	202.8	202.5	202.2	202.0	201.8
130°	211.1	212.0	212.9	213.7	214.2	214.0	213.9	213.7	213.6	213.5	213.3
132.5°	222.5	223.2	223.9	224.7	225.1	225.1	225.2	225.2	225.2	224.9	224.5
135°	238.0	238.8	239.5	240.3	240.8	240.9	241.0	241.2	241.3	241.2	241.2
137.5°	254.1	254.8	255.5	256.1	256.5	256.6	256.8	257.0	257.2	257.2	257.1
140°	264.0	264.7	265.3	265.9	266.4	266.7	267.1	267.4	267.8	267.8	267.8
142.5°	274.1	274.7	275.4	276.0	276.4	276.6	276.9	277.1	277.3	277.4	277.5
145°	288.5	288.9	289.4	289.9	290.3	290.8	291.2	291.6	292.0	292.1	292.2
147.5°	301.5	302.0	302.6	303.2	303.6	303.9	304.3	304.5	304.8	305.0	305.1
150°	310.1	310.5	310.9	311.4	311.7	312.0	312.3	312.5	312.8	313.1	313.3
152.5°	317.9	318.3	318.8	319.1	319.6	319.9	320.2	320.6	320.9	321.2	321.5
155°	329.4	329.7	329.8	330.0	330.3	330.5	330.6	330.9	331.1	331.4	331.8
157.5°	339.4	339.5	339.7	339.8	339.9	340.1	340.2	340.3	340.5	340.9	341.3
160°	345.4	345.5	345.7	345.8	346.0	346.0	346.1	346.2	346.3	346.6	347.1
162.5°	350.9	350.9	350.9	351.0	351.0	351.1	351.2	351.2	351.2	351.8	352.2
165°	358.1	358.0	358.0	357.9	357.8	357.8	357.8	357.8	357.8	358.4	358.8
167.5°	364.2	364.0	363.7	363.6	363.5	363.4	363.4	363.4	363.4	363.8	364.4
170°	367.5	367.2	367.0	366.8	366.7	366.6	366.5	366.5	366.4	366.8	367.4
172.5°	369.7	369.5	369.3	369.1	368.9	368.9	368.8	368.7	368.6	369.2	369.6
175°	372.5	372.3	372.0	371.8	371.7	371.6	371.4	371.2	371.1	371.6	372.1
177.5°	373.6	373.4	373.4	373.2	373.0	372.9	372.8	372.6	372.6	372.9	373.3
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2035.5	2042.6	2045.9	2045.9	2049.7	2048.1	2046.4
5°	2152.5	2165.4	2168.2	2180.5	2189.3	2186.7	2188.0
7.5°	2268.8	2289.6	2310.3	2319.8	2321.2	2326.7	2328.8
10°	2340.4	2357.5	2389.6	2384.8	2408.7	2422.4	2399.9
12.5°	2409.2	2432.3	2454.6	2460.8	2474.3	2478.7	2469.8
15°	2471.6	2483.9	2485.3	2481.8	2485.9	2482.5	2469.5
17.5°	2413.3	2393.4	2353.0	2333.8	2318.6	2296.2	2287.2
20°	2317.1	2258.3	2190.0	2162.8	2130.6	2067.7	2082.8
22.5°	2109.4	2042.5	1974.2	1894.4	1856.2	1796.6	1793.1
25°	1786.2	1670.7	1543.6	1454.8	1402.8	1343.5	1317.4
27.5°	1388.8	1243.4	1139.2	1086.5	1038.5	991.4	989.4
30°	1127.5	1018.2	937.5	892.4	863.0	843.2	847.3
32.5°	950.4	875.5	821.1	783.6	761.9	747.0	746.7
35°	776.9	725.7	690.8	675.1	659.4	648.5	649.2
37.5°	664.9	634.1	614.7	597.4	587.5	582.2	579.2
40°	607.4	582.2	567.1	556.9	548.7	541.2	539.8
42.5°	562.1	541.2	526.2	518.1	510.4	505.2	503.7
45°	498.8	481.7	468.1	459.2	455.8	451.0	451.0
47.5°	443.7	427.0	416.3	410.7	404.8	401.6	401.5
50°	406.6	393.6	384.1	380.6	375.9	373.8	373.1
52.5°	373.3	363.6	356.7	354.4	352.3	349.7	350.2
55°	328.0	322.5	319.8	317.7	314.3	310.2	313.0
57.5°	289.9	285.3	277.9	271.4	268.3	265.4	266.5
60°	263.1	253.5	244.0	236.4	234.3	228.2	228.2
62.5°	229.2	215.8	204.0	199.8	197.8	194.9	194.3
65°	176.3	170.9	168.1	165.3	164.0	164.0	162.6
67.5°	146.1	143.9	140.9	140.2	138.8	138.5	138.0
70°	129.1	126.4	125.0	124.4	123.0	123.7	121.6
72.5°	112.7	110.6	110.3	108.5	107.7	107.8	106.3
75°	88.8	88.8	88.2	87.5	86.1	85.4	86.1
77.5°	68.3	68.5	67.2	67.1	67.0	67.1	66.4
80°	54.7	55.4	54.7	53.9	53.3	53.9	53.3
82.5°	43.2	42.3	42.1	42.0	41.8	41.4	41.3
85°	24.6	25.3	24.6	23.9	23.9	23.9	24.6
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	10.9
90°	10.6	10.4	10.4	10.5	10.6	10.6	10.7
92.5°	10.1	10.2	10.2	10.2	10.2	10.2	10.2
95°	20.2	20.2	20.1	20.0	19.8	19.7	19.5
97.5°	33.9	33.9	33.9	33.9	33.9	33.9	33.8
100°	43.5	43.5	43.4	43.3	43.3	43.2	43.2
102.5°	53.9	54.0	54.0	53.9	53.9	53.9	53.8
105°	69.7	69.9	69.9	69.9	69.9	69.9	69.9
107.5°	86.6	86.6	86.5	86.1	85.9	85.5	85.2
110°	98.0	98.0	97.9	97.6	97.5	97.3	97.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	109.3	109.1	109.0	108.9	108.7	108.5	108.3
115°	127.1	127.0	126.9	126.6	126.4	126.3	126.0
117.5°	144.0	143.8	143.7	143.5	143.3	143.0	142.9
120°	155.6	155.6	155.5	155.3	155.1	154.9	154.7
122.5°	167.2	167.0	166.9	166.7	166.6	166.4	166.3
125°	184.6	184.4	184.2	184.2	184.1	184.0	184.0
127.5°	201.5	201.3	201.0	200.8	200.5	200.4	200.1
130°	213.2	213.0	212.9	212.6	212.2	212.0	211.7
132.5°	224.3	224.0	223.7	223.5	223.3	223.0	222.8
135°	241.1	241.0	240.9	240.7	240.5	240.3	240.0
137.5°	257.0	257.0	256.8	256.5	256.3	256.0	255.7
140°	267.8	267.8	267.6	267.3	267.1	266.8	266.5
142.5°	277.5	277.6	277.5	277.2	276.9	276.6	276.3
145°	292.2	292.3	292.2	291.9	291.7	291.4	291.1
147.5°	305.2	305.4	305.3	305.1	304.8	304.5	304.3
150°	313.4	313.7	313.7	313.4	313.3	313.1	312.8
152.5°	321.7	322.0	322.0	321.7	321.5	321.2	320.9
155°	332.2	332.5	332.6	332.3	332.2	332.0	331.7
157.5°	341.9	342.3	342.4	342.1	341.7	341.4	341.1
160°	347.5	347.9	347.9	347.7	347.4	347.1	346.9
162.5°	352.7	353.2	353.2	352.9	352.6	352.2	351.9
165°	359.4	359.8	359.9	359.5	359.2	358.8	358.6
167.5°	364.8	365.3	365.4	365.1	364.6	364.3	363.9
170°	367.8	368.4	368.4	368.0	367.6	367.1	366.7
172.5°	370.1	370.6	370.7	370.2	369.8	369.4	369.0
175°	372.6	373.1	373.1	372.7	372.3	371.8	371.4
177.5°	373.5	373.9	373.9	373.5	373.3	372.9	372.6
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4

(END OF REPORT)