

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: P332967-927

Luminaire Tested: **SA4XXRDIP-C1020D810U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332967-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1020D810U927-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5999.9 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

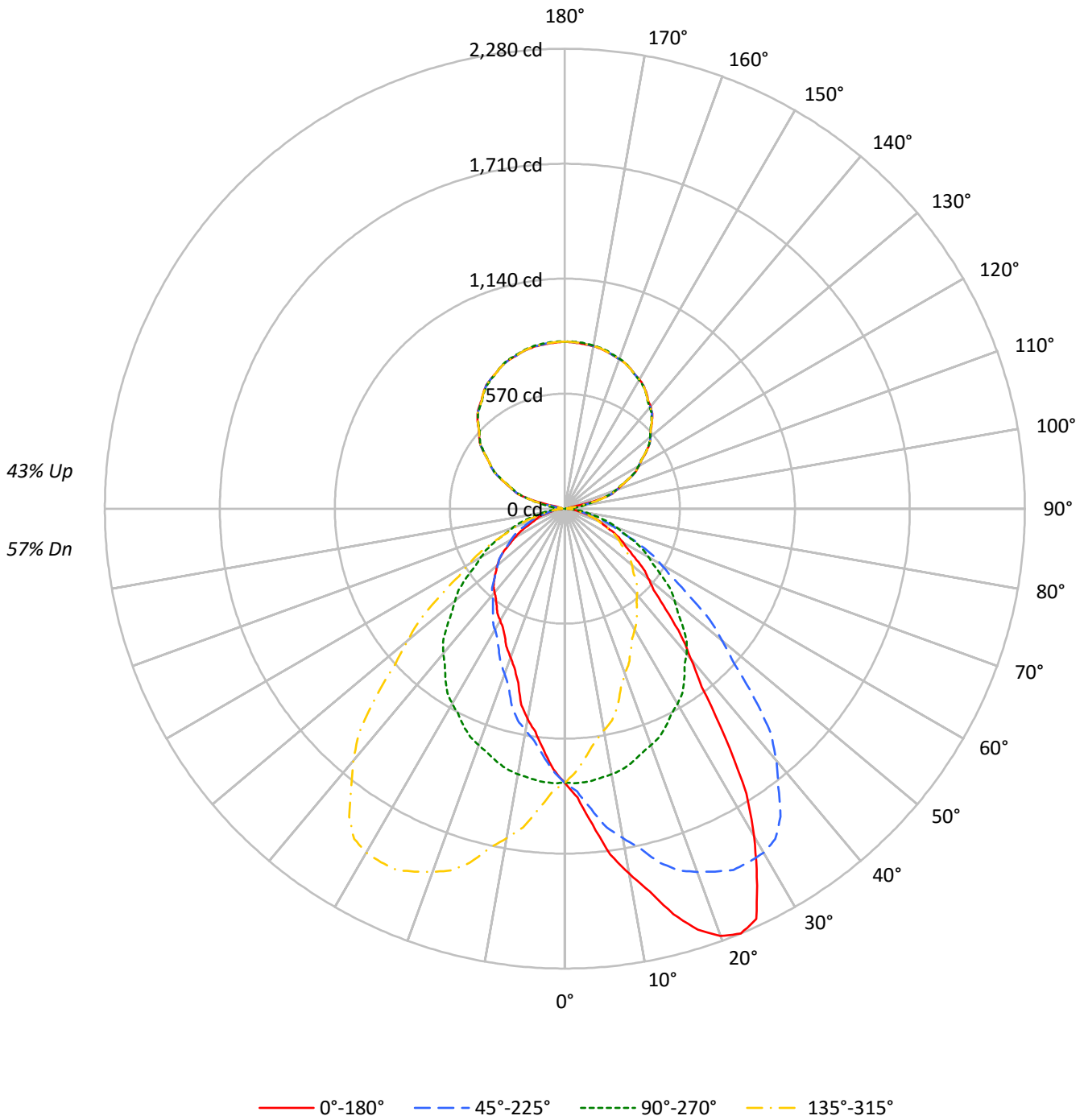
Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57				
1	100	96	92	89	93	89	86	83	77	75	73	66	65	63	56	55	54	49				
2	91	84	78	73	85	79	74	69	69	65	61	59	56	54	50	48	46	42				
3	84	75	67	62	78	70	63	58	61	56	52	53	49	46	45	42	40	36				
4	77	66	59	53	71	62	55	50	54	49	45	47	43	40	40	37	35	32				
5	71	59	51	45	66	56	49	43	49	43	39	43	38	35	37	33	31	28				
6	65	53	45	40	61	50	43	38	44	39	34	39	34	31	33	30	27	24				
7	61	48	40	35	56	46	38	33	40	35	30	35	31	27	31	27	24	22				
8	56	44	36	31	52	42	35	30	37	31	27	32	28	24	28	25	22	20				
9	52	40	33	28	49	38	31	27	34	28	24	30	25	22	26	22	20	18				
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	24	21	18	16				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10973	10973	10973	10973
5°	12729	11006	9728	11006
10°	15057	10958	8682	10958
15°	17393	10857	7460	10857
20°	19365	10717	6747	10717
25°	19991	10580	6263	10580
30°	17500	10414	5972	10414
35°	13623	10168	5797	10168
40°	10215	9886	5702	9886
45°	8066	9435	5651	9435
50°	6810	8913	5488	8913
55°	5935	8341	5195	8341
60°	5339	7745	4598	7745
65°	4707	7104	3954	7104
70°	4239	6437	3567	6437
75°	3553	5705	3041	5705
80°	3003	4863	2850	4863
85°	2538	3798	2538	3798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	2.2
10°-20°	397.3	6.6
20°-30°	621.4	10.4
30°-40°	690.7	11.5
40°-50°	612.9	10.2
50°-60°	477.6	8.0
60°-70°	312.7	5.2
70°-80°	153.8	2.6
80°-90°	40.3	0.7
90°-100°	28.3	0.5
100°-110°	180.6	3.0
110°-120°	345.5	5.8
120°-130°	438.6	7.3
130°-140°	469.2	7.8
140°-150°	438.8	7.3
150°-160°	353.8	5.9
160°-170°	228.2	3.8
170°-180°	78.7	1.3
0°-30°	1150.3	19.2
0°-40°	1841.1	30.7
0°-60°	2931.5	48.9
0°-90°	3438.2	57.3
90°-120°	554.4	9.2
90°-150°	1901.0	31.7
90°-180°	2562.0	42.7
0°-180°	5999.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1359	1359	1359	1359	1359	
5°	1571	1358	1200	1358	1571	159
15°	2081	1299	893	1299	2081	592
25°	2244	1188	703	1188	2244	996
35°	1382	1032	588	1032	1382	866
45°	706	826	495	826	706	560
55°	422	593	369	593	422	384
65°	246	372	207	372	246	248
75°	114	183	98	183	114	125
85°	27	41	27	41	27	31
90°	19	2	19	2	19	9
95°	18	34	18	34	18	14
105°	176	186	176	186	176	154
115°	351	348	351	348	351	347
125°	493	489	493	489	493	439
135°	611	607	611	607	611	471
145°	704	700	704	700	704	440
155°	767	768	767	768	767	354
165°	806	810	806	810	806	228
175°	823	828	823	828	823	78
180°	828	828	828	828	828	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1433.7	1437.7	1433.7	1433.3	1428.9	1427.6	1425.8	1420.1	1409.6	1403.5	1404.8
5°	1570.7	1584.3	1576.7	1575.6	1563.5	1551.5	1543.8	1526.3	1507.7	1495.1	1484.6
7.5°	1729.0	1736.9	1732.1	1724.4	1704.9	1693.8	1676.1	1653.0	1619.6	1594.0	1570.7
10°	1836.8	1843.3	1841.2	1826.9	1812.7	1783.7	1767.2	1735.0	1692.7	1659.4	1628.1
12.5°	1942.8	1949.8	1930.5	1931.2	1904.2	1881.4	1855.3	1814.7	1765.9	1722.8	1683.8
15°	2081.1	2072.3	2072.3	2061.3	2031.2	1999.5	1972.6	1929.9	1868.5	1817.0	1762.8
17.5°	2189.3	2192.3	2187.8	2161.9	2138.3	2105.5	2056.3	2006.4	1949.5	1880.4	1825.0
20°	2254.1	2254.1	2249.2	2231.7	2201.0	2165.9	2112.8	2058.6	1986.3	1916.8	1854.3
22.5°	2280.4	2282.1	2276.3	2261.8	2234.3	2200.0	2154.8	2099.8	2025.3	1946.9	1869.6
25°	2244.3	2254.6	2255.7	2251.9	2243.7	2222.9	2184.0	2127.6	2060.8	1975.9	1892.6
27.5°	2060.5	2073.6	2085.1	2104.0	2129.2	2142.4	2144.1	2115.4	2057.1	1975.5	1891.7
30°	1877.3	1888.2	1923.9	1970.4	2006.5	2039.4	2067.9	2075.5	2042.7	1969.3	1881.1
32.5°	1674.0	1688.9	1724.5	1774.6	1834.8	1890.5	1954.4	1987.0	1986.2	1942.1	1860.5
35°	1382.3	1393.2	1426.1	1478.6	1550.9	1633.6	1735.0	1813.8	1867.4	1863.6	1813.8
37.5°	1114.8	1127.1	1160.3	1204.0	1274.1	1376.4	1474.5	1583.1	1682.4	1738.1	1721.4
40°	969.3	969.9	1002.2	1047.1	1112.8	1202.1	1308.8	1429.3	1539.9	1630.3	1647.8
42.5°	854.5	854.6	876.0	924.4	971.8	1055.7	1157.7	1277.3	1406.8	1511.2	1557.6
45°	706.5	711.4	728.9	758.0	795.2	866.3	947.9	1059.1	1204.3	1328.0	1405.3
47.5°	598.3	605.5	616.6	640.3	669.9	717.4	784.9	884.8	1002.8	1139.0	1248.9
50°	542.2	543.3	557.5	570.6	596.4	634.1	693.3	776.6	884.9	1015.9	1138.0
52.5°	494.0	493.8	502.3	519.0	539.9	569.3	617.1	692.8	789.0	906.3	1032.4
55°	421.7	424.5	431.0	444.1	460.0	480.9	518.6	575.6	651.2	751.4	865.9
57.5°	366.7	368.1	373.3	378.8	393.4	408.5	436.9	476.4	540.2	622.3	728.9
60°	330.7	331.3	333.0	341.2	352.7	366.9	386.1	419.5	473.2	548.2	632.6
62.5°	295.7	296.7	299.2	305.2	314.1	324.0	344.0	370.9	415.3	479.4	555.4
65°	246.4	247.0	250.8	253.0	260.2	268.9	283.7	301.7	332.4	386.1	443.6
67.5°	205.9	205.9	206.1	209.1	214.0	219.8	228.7	243.1	266.3	299.2	349.9
70°	179.6	179.6	180.7	182.4	185.1	190.0	195.0	205.9	222.9	249.7	288.6
72.5°	155.1	155.5	156.6	156.9	158.4	162.4	166.0	173.1	185.7	205.9	237.3
75°	113.9	115.6	118.3	120.5	123.2	122.7	126.5	130.9	134.8	146.8	164.9
77.5°	84.8	83.9	84.2	86.1	86.4	87.0	89.7	93.1	95.9	101.6	108.1
80°	64.6	64.6	66.2	66.8	66.2	66.8	69.6	71.2	72.3	74.5	80.5
82.5°	48.9	49.7	49.2	49.7	50.1	50.6	52.9	53.2	54.3	55.2	57.8
85°	27.4	28.0	28.4	27.4	27.4	27.4	28.4	29.0	30.1	29.5	30.7
87.5°	13.4	12.8	13.2	13.2	13.5	13.0	13.3	14.0	13.0	13.2	13.0
90°	18.6	18.3	18.1	17.7	17.5	17.0	16.1	15.3	14.4	13.6	12.5
92.5°	17.1	17.0	17.0	17.0	16.9	16.4	15.6	14.8	13.9	13.2	12.0
95°	18.0	17.8	17.7	17.6	17.4	17.0	16.1	15.3	14.4	13.6	13.5
97.5°	17.3	17.2	17.0	17.0	16.8	16.7	16.6	16.6	16.4	16.3	31.7
100°	17.3	17.2	17.0	17.0	16.8	17.9	20.2	22.6	24.9	27.3	46.3
102.5°	17.8	17.8	17.7	17.7	17.7	30.3	55.6	80.8	106.1	131.3	133.8
105°	176.5	181.5	186.4	191.4	196.4	198.2	196.9	195.7	194.5	193.2	192.6
107.5°	246.1	245.5	244.9	244.5	243.9	243.4	242.7	242.2	241.5	241.0	240.0
110°	276.2	275.8	275.4	275.0	274.6	274.3	274.0	273.7	273.5	273.1	272.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	306.5	305.9	305.5	304.9	304.4	304.1	304.2	304.3	304.4	304.4	304.0
115°	350.6	350.6	350.6	350.6	350.6	350.5	350.1	349.9	349.6	349.4	349.5
117.5°	395.5	395.5	395.5	395.6	395.6	395.7	395.8	395.8	395.9	395.9	395.6
120°	423.7	424.0	424.2	424.5	424.8	424.8	424.5	424.2	424.0	423.7	423.8
122.5°	451.4	451.7	451.9	452.3	452.5	452.6	452.4	452.3	452.1	451.9	451.7
125°	493.1	492.9	492.7	492.7	492.5	492.2	491.8	491.4	491.0	490.6	490.8
127.5°	529.6	529.7	529.8	529.9	530.0	530.1	530.2	530.3	530.4	530.4	529.8
130°	554.4	554.4	554.4	554.4	554.4	554.3	554.1	554.1	553.9	553.7	553.3
132.5°	577.2	577.3	577.3	577.5	577.6	577.6	577.4	577.3	577.2	577.0	576.5
135°	611.3	611.1	610.8	610.5	610.2	610.0	609.7	609.4	609.1	608.9	608.3
137.5°	640.6	640.6	640.7	640.8	640.9	640.8	640.5	640.2	639.9	639.6	639.0
140°	660.9	660.8	660.6	660.5	660.4	660.0	659.7	659.3	658.9	658.4	658.1
142.5°	677.7	677.7	677.7	677.6	677.6	677.5	677.2	676.8	676.6	676.3	676.1
145°	703.6	703.4	703.1	702.8	702.5	702.3	702.2	702.0	702.0	701.8	701.8
147.5°	725.1	724.9	724.8	724.7	724.5	724.4	724.3	724.2	724.1	724.0	724.1
150°	738.9	738.8	738.6	738.6	738.4	738.3	738.3	738.3	738.3	738.3	738.5
152.5°	750.8	750.9	751.0	751.1	751.1	751.1	750.9	750.7	750.4	750.2	750.4
155°	766.8	767.2	767.6	768.0	768.5	768.4	767.9	767.3	766.8	766.2	766.6
157.5°	780.2	780.9	781.6	782.4	783.1	783.1	782.4	781.6	780.9	780.2	780.7
160°	789.1	790.0	790.8	791.6	792.4	792.4	791.6	790.8	790.0	789.1	789.3
162.5°	796.1	797.0	797.9	798.8	799.8	799.9	799.0	798.2	797.4	796.5	796.7
165°	805.8	807.1	808.3	809.5	810.8	810.9	809.8	808.7	807.6	806.4	806.4
167.5°	813.2	814.5	815.9	817.3	818.6	818.7	817.5	816.3	815.1	813.9	814.0
170°	817.6	819.0	820.4	821.7	823.1	823.2	822.1	821.0	819.9	818.9	818.7
172.5°	820.1	821.6	823.1	824.6	826.0	826.2	825.1	824.0	822.9	821.8	821.7
175°	823.2	824.8	826.5	828.1	829.8	830.0	828.8	827.5	826.2	825.1	824.9
177.5°	825.1	826.5	827.8	829.1	830.4	830.7	829.8	828.9	828.0	827.1	827.0
180°	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1400.4	1394.3	1391.2	1384.2	1375.9	1371.5	1367.5	1361.8	1354.4	1346.6	1340.8
5°	1471.5	1458.3	1441.9	1422.2	1404.7	1387.7	1372.9	1358.1	1341.2	1323.7	1306.2
7.5°	1544.4	1518.6	1490.6	1458.3	1427.0	1398.4	1372.1	1346.9	1318.3	1292.8	1269.6
10°	1595.3	1560.2	1521.3	1480.3	1439.2	1403.6	1368.6	1336.8	1301.7	1270.5	1244.2
12.5°	1636.5	1595.3	1548.5	1497.4	1448.0	1404.9	1364.6	1323.2	1283.3	1249.5	1214.4
15°	1704.8	1648.4	1585.4	1524.1	1460.0	1401.4	1347.2	1299.0	1253.5	1205.9	1172.5
17.5°	1751.8	1684.9	1608.3	1534.6	1458.9	1389.8	1327.2	1269.9	1217.4	1168.8	1129.0
20°	1779.8	1705.9	1621.0	1537.2	1452.3	1378.4	1311.1	1247.5	1193.3	1140.7	1099.6
22.5°	1795.6	1713.8	1621.0	1533.3	1445.3	1365.2	1291.3	1225.2	1166.2	1113.6	1068.1
25°	1800.6	1713.0	1618.3	1517.5	1421.1	1336.3	1259.6	1187.8	1122.1	1069.5	1021.4
27.5°	1793.7	1690.4	1593.4	1490.0	1390.6	1301.1	1220.6	1145.3	1079.4	1023.0	973.6
30°	1783.1	1672.5	1568.4	1461.1	1360.3	1274.4	1189.5	1117.2	1048.7	990.1	940.3
32.5°	1760.3	1650.6	1538.7	1428.7	1326.6	1238.0	1157.5	1084.7	1017.6	957.7	904.8
35°	1715.2	1604.0	1482.5	1369.7	1269.4	1177.4	1101.8	1031.7	967.7	903.6	847.7
37.5°	1655.7	1542.1	1421.3	1297.7	1197.4	1110.5	1041.2	975.3	912.8	854.3	792.4
40°	1599.7	1496.1	1371.3	1248.6	1145.7	1061.8	997.8	938.1	875.1	817.1	755.2
42.5°	1531.8	1443.6	1317.4	1194.3	1092.7	1011.9	952.2	893.8	836.5	780.3	715.7
45°	1418.4	1351.5	1233.3	1115.0	1012.6	932.6	877.9	826.4	776.0	722.3	661.6
47.5°	1288.5	1243.3	1141.1	1020.0	925.3	853.3	800.4	758.4	715.7	662.1	608.8
50°	1198.3	1169.2	1070.6	960.0	869.7	803.4	749.2	709.7	674.1	622.7	575.0
52.5°	1101.8	1086.4	1003.1	897.4	810.1	745.1	698.8	663.3	627.2	584.6	540.0
55°	955.1	963.3	892.6	801.2	719.1	664.3	622.1	592.6	561.9	525.8	491.2
57.5°	805.0	835.0	787.6	707.3	630.3	579.7	548.0	523.1	497.3	467.4	437.9
60°	715.2	740.4	713.6	642.9	575.6	528.5	498.9	479.7	454.0	426.6	404.2
62.5°	627.6	654.5	638.7	581.6	519.0	478.6	452.5	434.6	415.4	391.6	368.2
65°	517.5	535.0	527.4	488.0	443.6	409.1	385.0	371.9	354.3	336.8	316.0
67.5°	396.4	430.2	425.7	404.8	366.5	339.5	323.8	312.1	296.2	283.1	269.0
70°	325.8	357.0	356.5	339.5	318.7	293.5	282.6	272.7	258.5	245.9	234.4
72.5°	266.7	295.3	299.5	286.5	272.3	253.3	242.7	235.9	222.1	213.5	204.1
75°	186.7	207.6	213.0	213.0	206.4	196.6	187.3	182.9	173.1	165.4	159.9
77.5°	122.5	135.6	144.2	146.1	147.1	143.8	136.2	133.1	125.5	122.8	117.6
80°	86.5	95.3	105.1	108.4	111.1	110.1	106.8	104.6	97.5	94.7	92.5
82.5°	59.8	64.6	72.7	79.9	79.2	82.1	79.2	77.5	72.1	71.1	68.9
85°	31.2	31.8	32.9	37.8	40.6	41.6	42.1	41.0	39.5	39.5	35.6
87.5°	12.8	12.1	12.8	12.5	12.7	14.1	15.1	15.3	14.3	13.2	12.2
90°	11.4	10.3	9.2	7.9	6.4	4.9	3.4	1.8	3.4	4.9	6.4
92.5°	10.9	9.8	8.7	8.2	8.1	8.0	7.9	7.8	7.9	8.0	8.1
95°	13.4	13.2	13.1	15.4	20.0	24.7	29.4	34.1	29.4	24.7	20.0
97.5°	47.1	62.4	77.8	84.1	81.1	78.2	75.3	72.3	75.3	78.2	81.1
100°	65.3	84.2	103.2	111.5	109.0	106.5	104.1	101.6	104.1	106.5	109.0
102.5°	136.3	138.7	141.2	141.6	139.7	137.9	136.1	134.3	136.1	137.9	139.7
105°	191.9	191.2	190.5	189.7	188.9	188.1	187.3	186.4	187.3	188.1	188.9
107.5°	239.1	238.1	237.2	236.5	236.1	235.7	235.3	234.9	235.3	235.7	236.1
110°	271.5	270.7	269.8	269.3	268.8	268.4	268.0	267.6	268.0	268.4	268.8



TEST NUMBER: P332967-927

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	303.6	303.2	302.9	302.3	301.5	300.8	300.0	299.3	300.0	300.8	301.5
115°	349.6	349.7	349.9	349.7	349.4	349.0	348.5	348.1	348.5	349.0	349.4
117.5°	395.3	395.0	394.7	394.3	393.7	393.2	392.6	392.1	392.6	393.2	393.7
120°	424.0	424.1	424.2	424.0	423.5	422.9	422.4	421.8	422.4	422.9	423.5
122.5°	451.5	451.3	451.1	450.9	450.5	450.2	449.9	449.6	449.9	450.2	450.5
125°	491.2	491.4	491.6	491.5	491.0	490.4	489.9	489.3	489.9	490.4	491.0
127.5°	529.2	528.5	527.9	527.5	527.4	527.3	527.1	527.0	527.1	527.3	527.4
130°	552.9	552.5	552.1	551.8	551.7	551.5	551.4	551.3	551.4	551.5	551.7
132.5°	576.0	575.4	575.0	574.6	574.3	574.1	573.8	573.5	573.8	574.1	574.3
135°	607.8	607.2	606.7	606.5	606.6	606.7	606.9	607.0	606.9	606.7	606.6
137.5°	638.4	637.8	637.2	636.8	636.8	636.8	636.7	636.6	636.7	636.8	636.8
140°	657.9	657.6	657.4	657.0	656.8	656.5	656.2	655.9	656.2	656.5	656.8
142.5°	676.0	675.7	675.6	675.3	674.8	674.3	673.8	673.3	673.8	674.3	674.8
145°	701.8	701.8	701.8	701.6	701.2	700.8	700.4	699.9	700.4	700.8	701.2
147.5°	724.2	724.4	724.5	724.2	723.4	722.6	721.9	721.1	721.9	722.6	723.4
150°	738.6	738.7	738.9	738.6	738.2	737.6	737.0	736.5	737.0	737.6	738.2
152.5°	750.8	751.0	751.2	751.1	750.7	750.2	749.8	749.3	749.8	750.2	750.7
155°	767.0	767.5	767.9	768.0	767.9	767.7	767.5	767.5	767.5	767.7	767.9
157.5°	781.2	781.6	782.0	782.4	782.4	782.5	782.6	782.7	782.6	782.5	782.4
160°	789.4	789.6	789.6	790.0	790.4	790.8	791.2	791.6	791.2	790.8	790.4
162.5°	796.9	796.9	797.1	797.4	798.0	798.4	799.0	799.5	799.0	798.4	798.0
165°	806.4	806.4	806.4	806.8	807.5	808.2	808.9	809.5	808.9	808.2	807.5
167.5°	814.0	814.1	814.2	814.6	815.3	816.0	816.7	817.5	816.7	816.0	815.3
170°	818.6	818.4	818.3	818.6	819.4	820.3	821.1	822.0	821.1	820.3	819.4
172.5°	821.6	821.4	821.3	821.7	822.4	823.2	824.1	824.9	824.1	823.2	822.4
175°	824.7	824.7	824.5	824.8	825.7	826.5	827.3	828.1	827.3	826.5	825.7
177.5°	826.7	826.5	826.2	826.6	827.3	828.1	828.9	829.7	828.9	828.1	827.3
180°	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1



TEST NUMBER: P332967-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1334.7	1330.3	1324.6	1318.0	1310.2	1303.1	1300.1	1302.7	1304.0	1300.5	1300.1
5°	1294.1	1280.4	1269.4	1253.0	1239.8	1228.9	1221.2	1218.0	1219.0	1210.3	1208.1
7.5°	1248.4	1232.2	1214.3	1194.7	1176.5	1160.5	1152.0	1147.4	1138.1	1134.2	1127.5
10°	1219.0	1197.1	1179.6	1156.6	1135.8	1116.7	1107.3	1099.6	1090.4	1086.0	1076.7
12.5°	1188.8	1163.4	1144.1	1120.2	1099.0	1075.9	1067.0	1052.8	1038.2	1029.0	1017.1
15°	1146.2	1115.6	1092.0	1063.5	1038.3	1012.0	988.5	962.2	952.4	931.5	919.5
17.5°	1096.4	1065.2	1036.1	997.9	959.0	926.4	901.3	876.1	861.0	847.7	841.6
20°	1063.5	1035.1	994.5	950.1	906.9	870.8	850.5	834.1	817.6	808.3	801.8
22.5°	1032.4	996.0	949.0	901.1	857.9	829.6	812.4	795.5	782.1	773.2	764.5
25°	980.2	932.6	882.8	828.1	798.4	773.8	755.2	741.5	733.3	721.8	717.4
27.5°	926.7	869.0	814.0	777.2	746.4	723.9	707.7	697.4	687.0	679.6	673.9
30°	885.5	827.0	777.7	742.6	711.4	692.8	679.6	667.6	659.3	653.3	649.0
32.5°	844.8	786.2	744.8	707.1	682.5	664.3	650.3	641.3	634.9	627.0	624.4
35°	785.8	733.8	697.7	663.8	638.6	622.1	611.2	601.8	596.4	594.2	592.6
37.5°	729.2	686.7	647.8	620.0	597.5	584.6	571.6	567.0	563.3	559.4	561.1
40°	693.3	653.3	618.9	589.2	571.2	557.0	549.3	543.8	540.5	540.5	540.5
42.5°	662.2	623.1	589.5	563.0	544.9	532.8	524.3	519.7	518.6	518.2	520.8
45°	613.9	577.7	543.8	521.9	506.6	494.5	489.6	485.8	485.8	488.0	488.5
47.5°	566.0	532.2	504.9	480.4	466.4	458.8	454.6	452.6	452.8	455.0	457.5
50°	536.7	503.3	476.4	454.6	441.4	434.3	430.5	429.4	430.5	430.5	434.3
52.5°	504.7	474.8	448.4	430.0	415.1	408.4	406.3	404.8	405.4	407.3	408.8
55°	457.8	431.0	405.8	388.2	377.3	373.0	368.0	368.5	367.5	368.5	368.5
57.5°	410.8	386.7	363.3	349.4	339.8	333.4	328.0	329.5	328.0	327.7	326.9
60°	380.6	354.3	335.7	323.1	312.1	306.7	301.7	302.9	301.2	300.1	297.9
62.5°	347.8	325.8	308.1	296.0	287.2	280.8	275.9	274.8	271.0	267.3	262.4
65°	300.1	282.0	266.2	254.7	246.4	241.5	237.7	234.4	226.2	217.4	213.0
67.5°	253.8	240.7	225.9	216.2	209.5	203.0	195.7	190.1	182.4	177.7	174.9
70°	223.9	211.4	198.8	189.5	182.4	176.3	168.1	164.3	158.8	156.6	153.9
72.5°	195.5	183.8	172.1	163.7	156.1	151.4	144.9	141.1	138.6	137.8	135.1
75°	152.3	142.9	134.2	126.5	120.5	117.2	114.5	111.7	110.6	105.7	103.0
77.5°	111.1	105.0	99.4	94.0	89.7	87.5	82.2	79.1	77.2	74.9	74.4
80°	86.5	82.1	76.7	73.4	67.3	65.2	63.0	62.4	61.9	61.3	60.8
82.5°	65.0	60.7	55.2	53.2	51.6	50.3	49.0	48.4	47.8	48.2	48.1
85°	32.9	30.7	30.7	30.1	29.5	29.0	28.4	28.4	28.0	28.4	28.0
87.5°	12.5	12.4	12.6	12.0	12.6	12.8	12.5	12.7	13.3	12.6	12.7
90°	7.9	9.2	10.3	11.4	12.5	13.6	14.4	15.3	16.1	17.0	17.5
92.5°	8.2	8.7	9.8	10.9	12.0	13.2	13.9	14.8	15.6	16.4	16.9
95°	15.4	13.1	13.2	13.4	13.5	13.6	14.4	15.3	16.1	17.0	17.4
97.5°	84.1	77.8	62.4	47.1	31.7	16.3	16.4	16.6	16.6	16.7	16.8
100°	111.5	103.2	84.2	65.3	46.3	27.3	24.9	22.6	20.2	17.9	16.8
102.5°	141.6	141.2	138.7	136.3	133.8	131.3	106.1	80.8	55.6	30.3	17.7
105°	189.7	190.5	191.2	191.9	192.6	193.2	194.5	195.7	196.9	198.2	196.4
107.5°	236.5	237.2	238.1	239.1	240.0	241.0	241.5	242.2	242.7	243.4	243.9
110°	269.3	269.8	270.7	271.5	272.4	273.1	273.5	273.7	274.0	274.3	274.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	302.3	302.9	303.2	303.6	304.0	304.4	304.4	304.3	304.2	304.1	304.4
115°	349.7	349.9	349.7	349.6	349.5	349.4	349.6	349.9	350.1	350.5	350.6
117.5°	394.3	394.7	395.0	395.3	395.6	395.9	395.9	395.8	395.8	395.7	395.6
120°	424.0	424.2	424.1	424.0	423.8	423.7	424.0	424.2	424.5	424.8	424.8
122.5°	450.9	451.1	451.3	451.5	451.7	451.9	452.1	452.3	452.4	452.6	452.5
125°	491.5	491.6	491.4	491.2	490.8	490.6	491.0	491.4	491.8	492.2	492.5
127.5°	527.5	527.9	528.5	529.2	529.8	530.4	530.4	530.3	530.2	530.1	530.0
130°	551.8	552.1	552.5	552.9	553.3	553.7	553.9	554.1	554.1	554.3	554.4
132.5°	574.6	575.0	575.4	576.0	576.5	577.0	577.2	577.3	577.4	577.6	577.6
135°	606.5	606.7	607.2	607.8	608.3	608.9	609.1	609.4	609.7	610.0	610.2
137.5°	636.8	637.2	637.8	638.4	639.0	639.6	639.9	640.2	640.5	640.8	640.9
140°	657.0	657.4	657.6	657.9	658.1	658.4	658.9	659.3	659.7	660.0	660.4
142.5°	675.3	675.6	675.7	676.0	676.1	676.3	676.6	676.8	677.2	677.5	677.6
145°	701.6	701.8	701.8	701.8	701.8	701.8	702.0	702.0	702.2	702.3	702.5
147.5°	724.2	724.5	724.4	724.2	724.1	724.0	724.1	724.2	724.3	724.4	724.5
150°	738.6	738.9	738.7	738.6	738.5	738.3	738.3	738.3	738.3	738.3	738.4
152.5°	751.1	751.2	751.0	750.8	750.4	750.2	750.4	750.7	750.9	751.1	751.1
155°	768.0	767.9	767.5	767.0	766.6	766.2	766.8	767.3	767.9	768.4	768.5
157.5°	782.4	782.0	781.6	781.2	780.7	780.2	780.9	781.6	782.4	783.1	783.1
160°	790.0	789.6	789.6	789.4	789.3	789.1	790.0	790.8	791.6	792.4	792.4
162.5°	797.4	797.1	796.9	796.9	796.7	796.5	797.4	798.2	799.0	799.9	799.8
165°	806.8	806.4	806.4	806.4	806.4	806.4	807.6	808.7	809.8	810.9	810.8
167.5°	814.6	814.2	814.1	814.0	814.0	813.9	815.1	816.3	817.5	818.7	818.6
170°	818.6	818.3	818.4	818.6	818.7	818.9	819.9	821.0	822.1	823.2	823.1
172.5°	821.7	821.3	821.4	821.6	821.7	821.8	822.9	824.0	825.1	826.2	826.0
175°	824.8	824.5	824.7	824.7	824.9	825.1	826.2	827.5	828.8	830.0	829.8
177.5°	826.6	826.2	826.5	826.7	827.0	827.1	828.0	828.9	829.8	830.7	830.4
180°	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1



TEST NUMBER: P332967-927

CATALOG NUMBER: SA4XXRDIP-C1020D810U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1297.4	1298.3	1295.3	1294.4	1295.3	1298.3	1297.4	1300.1	1300.5	1304.0	1302.7
5°	1203.7	1202.6	1199.8	1200.4	1199.8	1202.6	1203.7	1208.1	1210.3	1219.0	1218.0
7.5°	1123.6	1119.3	1120.5	1116.1	1120.5	1119.3	1123.6	1127.5	1134.2	1138.1	1147.4
10°	1074.4	1068.4	1063.5	1059.1	1063.5	1068.4	1074.4	1076.7	1086.0	1090.4	1099.6
12.5°	1007.4	1002.3	995.6	997.0	995.6	1002.3	1007.4	1017.1	1029.0	1038.2	1052.8
15°	912.4	904.1	891.0	892.6	891.0	904.1	912.4	919.5	931.5	952.4	962.2
17.5°	831.9	831.9	825.9	827.4	825.9	831.9	831.9	841.6	847.7	861.0	876.1
20°	790.3	786.4	787.0	785.3	787.0	786.4	790.3	801.8	808.3	817.6	834.1
22.5°	761.4	756.6	752.8	749.4	752.8	756.6	761.4	764.5	773.2	782.1	795.5
25°	712.5	709.2	704.3	703.1	704.3	709.2	712.5	717.4	721.8	733.3	741.5
27.5°	669.6	668.9	666.9	664.4	666.9	668.9	669.6	673.9	679.6	687.0	697.4
30°	644.6	643.5	642.4	640.7	642.4	643.5	644.6	649.0	653.3	659.3	667.6
32.5°	622.3	621.5	620.4	620.6	620.4	621.5	622.3	624.4	627.0	634.9	641.3
35°	590.3	589.8	588.7	588.2	588.7	589.8	590.3	592.6	594.2	596.4	601.8
37.5°	560.5	562.0	561.3	561.2	561.3	562.0	560.5	561.1	559.4	563.3	567.0
40°	540.0	540.5	541.6	541.1	541.6	540.5	540.0	540.5	540.5	540.5	543.8
42.5°	522.9	523.0	524.5	522.7	524.5	523.0	522.9	520.8	518.2	518.6	519.7
45°	492.3	495.6	495.0	495.0	495.0	495.6	492.3	488.5	488.0	485.8	485.8
47.5°	458.9	461.8	462.6	462.4	462.6	461.8	458.9	457.5	455.0	452.8	452.6
50°	437.0	435.9	437.6	437.0	437.6	435.9	437.0	434.3	430.5	430.5	429.4
52.5°	410.3	410.5	410.4	409.9	410.4	410.5	410.3	408.8	407.3	405.4	404.8
55°	369.1	369.6	368.5	369.1	368.5	369.6	369.1	368.5	368.5	367.5	368.5
57.5°	324.4	321.8	322.9	321.5	322.9	321.8	324.4	326.9	327.7	328.0	329.5
60°	292.5	288.0	286.9	284.8	286.9	288.0	292.5	297.9	300.1	301.2	302.9
62.5°	256.5	253.4	249.7	251.4	249.7	253.4	256.5	262.4	267.3	271.0	274.8
65°	208.7	206.4	204.8	207.0	204.8	206.4	208.7	213.0	217.4	226.2	234.4
67.5°	172.7	171.5	171.5	170.4	171.5	171.5	172.7	174.9	177.7	182.4	190.1
70°	153.9	152.3	152.3	151.1	152.3	152.3	153.9	153.9	156.6	158.8	164.3
72.5°	134.6	132.9	133.4	132.8	133.4	132.9	134.6	135.1	137.8	138.6	141.1
75°	99.7	97.0	97.0	97.5	97.0	97.0	99.7	103.0	105.7	110.6	111.7
77.5°	74.4	73.8	74.6	73.6	74.6	73.8	74.4	74.4	74.9	77.2	79.1
80°	60.8	60.2	59.7	61.3	59.7	60.2	60.8	60.8	61.3	61.9	62.4
82.5°	47.2	47.1	47.0	49.0	47.0	47.1	47.2	48.1	48.2	47.8	48.4
85°	28.4	27.4	28.4	27.4	28.4	27.4	28.4	28.0	28.4	28.0	28.4
87.5°	13.6	13.2	12.8	13.4	12.8	13.2	13.6	12.7	12.6	13.3	12.7
90°	17.7	18.1	18.3	18.6	18.3	18.1	17.7	17.5	17.0	16.1	15.3
92.5°	17.0	17.0	17.0	17.1	17.0	17.0	17.0	16.9	16.4	15.6	14.8
95°	17.6	17.7	17.8	18.0	17.8	17.7	17.6	17.4	17.0	16.1	15.3
97.5°	17.0	17.0	17.2	17.3	17.2	17.0	17.0	16.8	16.7	16.6	16.6
100°	17.0	17.0	17.2	17.3	17.2	17.0	17.0	16.8	17.9	20.2	22.6
102.5°	17.7	17.7	17.8	17.8	17.8	17.7	17.7	17.7	30.3	55.6	80.8
105°	191.4	186.4	181.5	176.5	181.5	186.4	191.4	196.4	198.2	196.9	195.7
107.5°	244.5	244.9	245.5	246.1	245.5	244.9	244.5	243.9	243.4	242.7	242.2
110°	275.0	275.4	275.8	276.2	275.8	275.4	275.0	274.6	274.3	274.0	273.7



TEST NUMBER: P332967-927

CATALOG NUMBER: SA4XXRDIP-C1020D810U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	304.9	305.5	305.9	306.5	305.9	305.5	304.9	304.4	304.1	304.2	304.3
115°	350.6	350.6	350.6	350.6	350.6	350.6	350.6	350.6	350.5	350.1	349.9
117.5°	395.6	395.5	395.5	395.5	395.5	395.5	395.6	395.6	395.7	395.8	395.8
120°	424.5	424.2	424.0	423.7	424.0	424.2	424.5	424.8	424.8	424.5	424.2
122.5°	452.3	451.9	451.7	451.4	451.7	451.9	452.3	452.5	452.6	452.4	452.3
125°	492.7	492.7	492.9	493.1	492.9	492.7	492.7	492.5	492.2	491.8	491.4
127.5°	529.9	529.8	529.7	529.6	529.7	529.8	529.9	530.0	530.1	530.2	530.3
130°	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.3	554.1	554.1
132.5°	577.5	577.3	577.3	577.2	577.3	577.3	577.5	577.6	577.6	577.4	577.3
135°	610.5	610.8	611.1	611.3	611.1	610.8	610.5	610.2	610.0	609.7	609.4
137.5°	640.8	640.7	640.6	640.6	640.6	640.7	640.8	640.9	640.8	640.5	640.2
140°	660.5	660.6	660.8	660.9	660.8	660.6	660.5	660.4	660.0	659.7	659.3
142.5°	677.6	677.7	677.7	677.7	677.7	677.7	677.6	677.6	677.5	677.2	676.8
145°	702.8	703.1	703.4	703.6	703.4	703.1	702.8	702.5	702.3	702.2	702.0
147.5°	724.7	724.8	724.9	725.1	724.9	724.8	724.7	724.5	724.4	724.3	724.2
150°	738.6	738.6	738.8	738.9	738.8	738.6	738.6	738.4	738.3	738.3	738.3
152.5°	751.1	751.0	750.9	750.8	750.9	751.0	751.1	751.1	751.1	750.9	750.7
155°	768.0	767.6	767.2	766.8	767.2	767.6	768.0	768.5	768.4	767.9	767.3
157.5°	782.4	781.6	780.9	780.2	780.9	781.6	782.4	783.1	783.1	782.4	781.6
160°	791.6	790.8	790.0	789.1	790.0	790.8	791.6	792.4	792.4	791.6	790.8
162.5°	798.8	797.9	797.0	796.1	797.0	797.9	798.8	799.8	799.9	799.0	798.2
165°	809.5	808.3	807.1	805.8	807.1	808.3	809.5	810.8	810.9	809.8	808.7
167.5°	817.3	815.9	814.5	813.2	814.5	815.9	817.3	818.6	818.7	817.5	816.3
170°	821.7	820.4	819.0	817.6	819.0	820.4	821.7	823.1	823.2	822.1	821.0
172.5°	824.6	823.1	821.6	820.1	821.6	823.1	824.6	826.0	826.2	825.1	824.0
175°	828.1	826.5	824.8	823.2	824.8	826.5	828.1	829.8	830.0	828.8	827.5
177.5°	829.1	827.8	826.5	825.1	826.5	827.8	829.1	830.4	830.7	829.8	828.9
180°	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1



TEST NUMBER: P332967-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1300.1	1303.1	1310.2	1318.0	1324.6	1330.3	1334.7	1340.8	1346.6	1354.4	1361.8
5°	1221.2	1228.9	1239.8	1253.0	1269.4	1280.4	1294.1	1306.2	1323.7	1341.2	1358.1
7.5°	1152.0	1160.5	1176.5	1194.7	1214.3	1232.2	1248.4	1269.6	1292.8	1318.3	1346.9
10°	1107.3	1116.7	1135.8	1156.6	1179.6	1197.1	1219.0	1244.2	1270.5	1301.7	1336.8
12.5°	1067.0	1075.9	1099.0	1120.2	1144.1	1163.4	1188.8	1214.4	1249.5	1283.3	1323.2
15°	988.5	1012.0	1038.3	1063.5	1092.0	1115.6	1146.2	1172.5	1205.9	1253.5	1299.0
17.5°	901.3	926.4	959.0	997.9	1036.1	1065.2	1096.4	1129.0	1168.8	1217.4	1269.9
20°	850.5	870.8	906.9	950.1	994.5	1035.1	1063.5	1099.6	1140.7	1193.3	1247.5
22.5°	812.4	829.6	857.9	901.1	949.0	996.0	1032.4	1068.1	1113.6	1166.2	1225.2
25°	755.2	773.8	798.4	828.1	882.8	932.6	980.2	1021.4	1069.5	1122.1	1187.8
27.5°	707.7	723.9	746.4	777.2	814.0	869.0	926.7	973.6	1023.0	1079.4	1145.3
30°	679.6	692.8	711.4	742.6	777.7	827.0	885.5	940.3	990.1	1048.7	1117.2
32.5°	650.3	664.3	682.5	707.1	744.8	786.2	844.8	904.8	957.7	1017.6	1084.7
35°	611.2	622.1	638.6	663.8	697.7	733.8	785.8	847.7	903.6	967.7	1031.7
37.5°	571.6	584.6	597.5	620.0	647.8	686.7	729.2	792.4	854.3	912.8	975.3
40°	549.3	557.0	571.2	589.2	618.9	653.3	693.3	755.2	817.1	875.1	938.1
42.5°	524.3	532.8	544.9	563.0	589.5	623.1	662.2	715.7	780.3	836.5	893.8
45°	489.6	494.5	506.6	521.9	543.8	577.7	613.9	661.6	722.3	776.0	826.4
47.5°	454.6	458.8	466.4	480.4	504.9	532.2	566.0	608.8	662.1	715.7	758.4
50°	430.5	434.3	441.4	454.6	476.4	503.3	536.7	575.0	622.7	674.1	709.7
52.5°	406.3	408.4	415.1	430.0	448.4	474.8	504.7	540.0	584.6	627.2	663.3
55°	368.0	373.0	377.3	388.2	405.8	431.0	457.8	491.2	525.8	561.9	592.6
57.5°	328.0	333.4	339.8	349.4	363.3	386.7	410.8	437.9	467.4	497.3	523.1
60°	301.7	306.7	312.1	323.1	335.7	354.3	380.6	404.2	426.6	454.0	479.7
62.5°	275.9	280.8	287.2	296.0	308.1	325.8	347.8	368.2	391.6	415.4	434.6
65°	237.7	241.5	246.4	254.7	266.2	282.0	300.1	316.0	336.8	354.3	371.9
67.5°	195.7	203.0	209.5	216.2	225.9	240.7	253.8	269.0	283.1	296.2	312.1
70°	168.1	176.3	182.4	189.5	198.8	211.4	223.9	234.4	245.9	258.5	272.7
72.5°	144.9	151.4	156.1	163.7	172.1	183.8	195.5	204.1	213.5	222.1	235.9
75°	114.5	117.2	120.5	126.5	134.2	142.9	152.3	159.9	165.4	173.1	182.9
77.5°	82.2	87.5	89.7	94.0	99.4	105.0	111.1	117.6	122.8	125.5	133.1
80°	63.0	65.2	67.3	73.4	76.7	82.1	86.5	92.5	94.7	97.5	104.6
82.5°	49.0	50.3	51.6	53.2	55.2	60.7	65.0	68.9	71.1	72.1	77.5
85°	28.4	29.0	29.5	30.1	30.7	30.7	32.9	35.6	39.5	39.5	41.0
87.5°	12.5	12.8	12.6	12.0	12.6	12.4	12.5	12.2	13.2	14.3	15.3
90°	14.4	13.6	12.5	11.4	10.3	9.2	7.9	6.4	4.9	3.4	1.8
92.5°	13.9	13.2	12.0	10.9	9.8	8.7	8.2	8.1	8.0	7.9	7.8
95°	14.4	13.6	13.5	13.4	13.2	13.1	15.4	20.0	24.7	29.4	34.1
97.5°	16.4	16.3	31.7	47.1	62.4	77.8	84.1	81.1	78.2	75.3	72.3
100°	24.9	27.3	46.3	65.3	84.2	103.2	111.5	109.0	106.5	104.1	101.6
102.5°	106.1	131.3	133.8	136.3	138.7	141.2	141.6	139.7	137.9	136.1	134.3
105°	194.5	193.2	192.6	191.9	191.2	190.5	189.7	188.9	188.1	187.3	186.4
107.5°	241.5	241.0	240.0	239.1	238.1	237.2	236.5	236.1	235.7	235.3	234.9
110°	273.5	273.1	272.4	271.5	270.7	269.8	269.3	268.8	268.4	268.0	267.6



TEST NUMBER: P332967-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	304.4	304.4	304.0	303.6	303.2	302.9	302.3	301.5	300.8	300.0	299.3
115°	349.6	349.4	349.5	349.6	349.7	349.9	349.7	349.4	349.0	348.5	348.1
117.5°	395.9	395.9	395.6	395.3	395.0	394.7	394.3	393.7	393.2	392.6	392.1
120°	424.0	423.7	423.8	424.0	424.1	424.2	424.0	423.5	422.9	422.4	421.8
122.5°	452.1	451.9	451.7	451.5	451.3	451.1	450.9	450.5	450.2	449.9	449.6
125°	491.0	490.6	490.8	491.2	491.4	491.6	491.5	491.0	490.4	489.9	489.3
127.5°	530.4	530.4	529.8	529.2	528.5	527.9	527.5	527.4	527.3	527.1	527.0
130°	553.9	553.7	553.3	552.9	552.5	552.1	551.8	551.7	551.5	551.4	551.3
132.5°	577.2	577.0	576.5	576.0	575.4	575.0	574.6	574.3	574.1	573.8	573.5
135°	609.1	608.9	608.3	607.8	607.2	606.7	606.5	606.6	606.7	606.9	607.0
137.5°	639.9	639.6	639.0	638.4	637.8	637.2	636.8	636.8	636.8	636.7	636.6
140°	658.9	658.4	658.1	657.9	657.6	657.4	657.0	656.8	656.5	656.2	655.9
142.5°	676.6	676.3	676.1	676.0	675.7	675.6	675.3	674.8	674.3	673.8	673.3
145°	702.0	701.8	701.8	701.8	701.8	701.8	701.6	701.2	700.8	700.4	699.9
147.5°	724.1	724.0	724.1	724.2	724.4	724.5	724.2	723.4	722.6	721.9	721.1
150°	738.3	738.3	738.5	738.6	738.7	738.9	738.6	738.2	737.6	737.0	736.5
152.5°	750.4	750.2	750.4	750.8	751.0	751.2	751.1	750.7	750.2	749.8	749.3
155°	766.8	766.2	766.6	767.0	767.5	767.9	768.0	767.9	767.7	767.5	767.5
157.5°	780.9	780.2	780.7	781.2	781.6	782.0	782.4	782.4	782.5	782.6	782.7
160°	790.0	789.1	789.3	789.4	789.6	789.6	790.0	790.4	790.8	791.2	791.6
162.5°	797.4	796.5	796.7	796.9	796.9	797.1	797.4	798.0	798.4	799.0	799.5
165°	807.6	806.4	806.4	806.4	806.4	806.4	806.8	807.5	808.2	808.9	809.5
167.5°	815.1	813.9	814.0	814.0	814.1	814.2	814.6	815.3	816.0	816.7	817.5
170°	819.9	818.9	818.7	818.6	818.4	818.3	818.6	819.4	820.3	821.1	822.0
172.5°	822.9	821.8	821.7	821.6	821.4	821.3	821.7	822.4	823.2	824.1	824.9
175°	826.2	825.1	824.9	824.7	824.7	824.5	824.8	825.7	826.5	827.3	828.1
177.5°	828.0	827.1	827.0	826.7	826.5	826.2	826.6	827.3	828.1	828.9	829.7
180°	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1



TEST NUMBER: P332967-927

CATALOG NUMBER: SA4XXRDIP-C1020D810U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1367.5	1371.5	1375.9	1384.2	1391.2	1394.3	1400.4	1404.8	1403.5	1409.6	1420.1
5°	1372.9	1387.7	1404.7	1422.2	1441.9	1458.3	1471.5	1484.6	1495.1	1507.7	1526.3
7.5°	1372.1	1398.4	1427.0	1458.3	1490.6	1518.6	1544.4	1570.7	1594.0	1619.6	1653.0
10°	1368.6	1403.6	1439.2	1480.3	1521.3	1560.2	1595.3	1628.1	1659.4	1692.7	1735.0
12.5°	1364.6	1404.9	1448.0	1497.4	1548.5	1595.3	1636.5	1683.8	1722.8	1765.9	1814.7
15°	1347.2	1401.4	1460.0	1524.1	1585.4	1648.4	1704.8	1762.8	1817.0	1868.5	1929.9
17.5°	1327.2	1389.8	1458.9	1534.6	1608.3	1684.9	1751.8	1825.0	1880.4	1949.5	2006.4
20°	1311.1	1378.4	1452.3	1537.2	1621.0	1705.9	1779.8	1854.3	1916.8	1986.3	2058.6
22.5°	1291.3	1365.2	1445.3	1533.3	1621.0	1713.8	1795.6	1869.6	1946.9	2025.3	2099.8
25°	1259.6	1336.3	1421.1	1517.5	1618.3	1713.0	1800.6	1892.6	1975.9	2060.8	2127.6
27.5°	1220.6	1301.1	1390.6	1490.0	1593.4	1690.4	1793.7	1891.7	1975.5	2057.1	2115.4
30°	1189.5	1274.4	1360.3	1461.1	1568.4	1672.5	1783.1	1881.1	1969.3	2042.7	2075.5
32.5°	1157.5	1238.0	1326.6	1428.7	1538.7	1650.6	1760.3	1860.5	1942.1	1986.2	1987.0
35°	1101.8	1177.4	1269.4	1369.7	1482.5	1604.0	1715.2	1813.8	1863.6	1867.4	1813.8
37.5°	1041.2	1110.5	1197.4	1297.7	1421.3	1542.1	1655.7	1721.4	1738.1	1682.4	1583.1
40°	997.8	1061.8	1145.7	1248.6	1371.3	1496.1	1599.7	1647.8	1630.3	1539.9	1429.3
42.5°	952.2	1011.9	1092.7	1194.3	1317.4	1443.6	1531.8	1557.6	1511.2	1406.8	1277.3
45°	877.9	932.6	1012.6	1115.0	1233.3	1351.5	1418.4	1405.3	1328.0	1204.3	1059.1
47.5°	800.4	853.3	925.3	1020.0	1141.1	1243.3	1288.5	1248.9	1139.0	1002.8	884.8
50°	749.2	803.4	869.7	960.0	1070.6	1169.2	1198.3	1138.0	1015.9	884.9	776.6
52.5°	698.8	745.1	810.1	897.4	1003.1	1086.4	1101.8	1032.4	906.3	789.0	692.8
55°	622.1	664.3	719.1	801.2	892.6	963.3	955.1	865.9	751.4	651.2	575.6
57.5°	548.0	579.7	630.3	707.3	787.6	835.0	805.0	728.9	622.3	540.2	476.4
60°	498.9	528.5	575.6	642.9	713.6	740.4	715.2	632.6	548.2	473.2	419.5
62.5°	452.5	478.6	519.0	581.6	638.7	654.5	627.6	555.4	479.4	415.3	370.9
65°	385.0	409.1	443.6	488.0	527.4	535.0	517.5	443.6	386.1	332.4	301.7
67.5°	323.8	339.5	366.5	404.8	425.7	430.2	396.4	349.9	299.2	266.3	243.1
70°	282.6	293.5	318.7	339.5	356.5	357.0	325.8	288.6	249.7	222.9	205.9
72.5°	242.7	253.3	272.3	286.5	299.5	295.3	266.7	237.3	205.9	185.7	173.1
75°	187.3	196.6	206.4	213.0	213.0	207.6	186.7	164.9	146.8	134.8	130.9
77.5°	136.2	143.8	147.1	146.1	144.2	135.6	122.5	108.1	101.6	95.9	93.1
80°	106.8	110.1	111.1	108.4	105.1	95.3	86.5	80.5	74.5	72.3	71.2
82.5°	79.2	82.1	79.2	79.9	72.7	64.6	59.8	57.8	55.2	54.3	53.2
85°	42.1	41.6	40.6	37.8	32.9	31.8	31.2	30.7	29.5	30.1	29.0
87.5°	15.1	14.1	12.7	12.5	12.8	12.1	12.8	13.0	13.2	13.0	14.0
90°	3.4	4.9	6.4	7.9	9.2	10.3	11.4	12.5	13.6	14.4	15.3
92.5°	7.9	8.0	8.1	8.2	8.7	9.8	10.9	12.0	13.2	13.9	14.8
95°	29.4	24.7	20.0	15.4	13.1	13.2	13.4	13.5	13.6	14.4	15.3
97.5°	75.3	78.2	81.1	84.1	77.8	62.4	47.1	31.7	16.3	16.4	16.6
100°	104.1	106.5	109.0	111.5	103.2	84.2	65.3	46.3	27.3	24.9	22.6
102.5°	136.1	137.9	139.7	141.6	141.2	138.7	136.3	133.8	131.3	106.1	80.8
105°	187.3	188.1	188.9	189.7	190.5	191.2	191.9	192.6	193.2	194.5	195.7
107.5°	235.3	235.7	236.1	236.5	237.2	238.1	239.1	240.0	241.0	241.5	242.2
110°	268.0	268.4	268.8	269.3	269.8	270.7	271.5	272.4	273.1	273.5	273.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	300.0	300.8	301.5	302.3	302.9	303.2	303.6	304.0	304.4	304.4	304.3
115°	348.5	349.0	349.4	349.7	349.9	349.7	349.6	349.5	349.4	349.6	349.9
117.5°	392.6	393.2	393.7	394.3	394.7	395.0	395.3	395.6	395.9	395.9	395.8
120°	422.4	422.9	423.5	424.0	424.2	424.1	424.0	423.8	423.7	424.0	424.2
122.5°	449.9	450.2	450.5	450.9	451.1	451.3	451.5	451.7	451.9	452.1	452.3
125°	489.9	490.4	491.0	491.5	491.6	491.4	491.2	490.8	490.6	491.0	491.4
127.5°	527.1	527.3	527.4	527.5	527.9	528.5	529.2	529.8	530.4	530.4	530.3
130°	551.4	551.5	551.7	551.8	552.1	552.5	552.9	553.3	553.7	553.9	554.1
132.5°	573.8	574.1	574.3	574.6	575.0	575.4	576.0	576.5	577.0	577.2	577.3
135°	606.9	606.7	606.6	606.5	606.7	607.2	607.8	608.3	608.9	609.1	609.4
137.5°	636.7	636.8	636.8	636.8	637.2	637.8	638.4	639.0	639.6	639.9	640.2
140°	656.2	656.5	656.8	657.0	657.4	657.6	657.9	658.1	658.4	658.9	659.3
142.5°	673.8	674.3	674.8	675.3	675.6	675.7	676.0	676.1	676.3	676.6	676.8
145°	700.4	700.8	701.2	701.6	701.8	701.8	701.8	701.8	701.8	702.0	702.0
147.5°	721.9	722.6	723.4	724.2	724.5	724.4	724.2	724.1	724.0	724.1	724.2
150°	737.0	737.6	738.2	738.6	738.9	738.7	738.6	738.5	738.3	738.3	738.3
152.5°	749.8	750.2	750.7	751.1	751.2	751.0	750.8	750.4	750.2	750.4	750.7
155°	767.5	767.7	767.9	768.0	767.9	767.5	767.0	766.6	766.2	766.8	767.3
157.5°	782.6	782.5	782.4	782.4	782.0	781.6	781.2	780.7	780.2	780.9	781.6
160°	791.2	790.8	790.4	790.0	789.6	789.6	789.4	789.3	789.1	790.0	790.8
162.5°	799.0	798.4	798.0	797.4	797.1	796.9	796.9	796.7	796.5	797.4	798.2
165°	808.9	808.2	807.5	806.8	806.4	806.4	806.4	806.4	806.4	807.6	808.7
167.5°	816.7	816.0	815.3	814.6	814.2	814.1	814.0	814.0	813.9	815.1	816.3
170°	821.1	820.3	819.4	818.6	818.3	818.4	818.6	818.7	818.9	819.9	821.0
172.5°	824.1	823.2	822.4	821.7	821.3	821.4	821.6	821.7	821.8	822.9	824.0
175°	827.3	826.5	825.7	824.8	824.5	824.7	824.7	824.9	825.1	826.2	827.5
177.5°	828.9	828.1	827.3	826.6	826.2	826.5	826.7	827.0	827.1	828.0	828.9
180°	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1425.8	1427.6	1428.9	1433.3	1433.7	1437.7	1433.7
5°	1543.8	1551.5	1563.5	1575.6	1576.7	1584.3	1570.7
7.5°	1676.1	1693.8	1704.9	1724.4	1732.1	1736.9	1729.0
10°	1767.2	1783.7	1812.7	1826.9	1841.2	1843.3	1836.8
12.5°	1855.3	1881.4	1904.2	1931.2	1930.5	1949.8	1942.8
15°	1972.6	1999.5	2031.2	2061.3	2072.3	2072.3	2081.1
17.5°	2056.3	2105.5	2138.3	2161.9	2187.8	2192.3	2189.3
20°	2112.8	2165.9	2201.0	2231.7	2249.2	2254.1	2254.1
22.5°	2154.8	2200.0	2234.3	2261.8	2276.3	2282.1	2280.4
25°	2184.0	2222.9	2243.7	2251.9	2255.7	2254.6	2244.3
27.5°	2144.1	2142.4	2129.2	2104.0	2085.1	2073.6	2060.5
30°	2067.9	2039.4	2006.5	1970.4	1923.9	1888.2	1877.3
32.5°	1954.4	1890.5	1834.8	1774.6	1724.5	1688.9	1674.0
35°	1735.0	1633.6	1550.9	1478.6	1426.1	1393.2	1382.3
37.5°	1474.5	1376.4	1274.1	1204.0	1160.3	1127.1	1114.8
40°	1308.8	1202.1	1112.8	1047.1	1002.2	969.9	969.3
42.5°	1157.7	1055.7	971.8	924.4	876.0	854.6	854.5
45°	947.9	866.3	795.2	758.0	728.9	711.4	706.5
47.5°	784.9	717.4	669.9	640.3	616.6	605.5	598.3
50°	693.3	634.1	596.4	570.6	557.5	543.3	542.2
52.5°	617.1	569.3	539.9	519.0	502.3	493.8	494.0
55°	518.6	480.9	460.0	444.1	431.0	424.5	421.7
57.5°	436.9	408.5	393.4	378.8	373.3	368.1	366.7
60°	386.1	366.9	352.7	341.2	333.0	331.3	330.7
62.5°	344.0	324.0	314.1	305.2	299.2	296.7	295.7
65°	283.7	268.9	260.2	253.0	250.8	247.0	246.4
67.5°	228.7	219.8	214.0	209.1	206.1	205.9	205.9
70°	195.0	190.0	185.1	182.4	180.7	179.6	179.6
72.5°	166.0	162.4	158.4	156.9	156.6	155.5	155.1
75°	126.5	122.7	123.2	120.5	118.3	115.6	113.9
77.5°	89.7	87.0	86.4	86.1	84.2	83.9	84.8
80°	69.6	66.8	66.2	66.8	66.2	64.6	64.6
82.5°	52.9	50.6	50.1	49.7	49.2	49.7	48.9
85°	28.4	27.4	27.4	27.4	28.4	28.0	27.4
87.5°	13.3	13.0	13.5	13.2	13.2	12.8	13.4
90°	16.1	17.0	17.5	17.7	18.1	18.3	18.6
92.5°	15.6	16.4	16.9	17.0	17.0	17.0	17.1
95°	16.1	17.0	17.4	17.6	17.7	17.8	18.0
97.5°	16.6	16.7	16.8	17.0	17.0	17.2	17.3
100°	20.2	17.9	16.8	17.0	17.0	17.2	17.3
102.5°	55.6	30.3	17.7	17.7	17.7	17.8	17.8
105°	196.9	198.2	196.4	191.4	186.4	181.5	176.5
107.5°	242.7	243.4	243.9	244.5	244.9	245.5	246.1
110°	274.0	274.3	274.6	275.0	275.4	275.8	276.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	304.2	304.1	304.4	304.9	305.5	305.9	306.5
115°	350.1	350.5	350.6	350.6	350.6	350.6	350.6
117.5°	395.8	395.7	395.6	395.6	395.5	395.5	395.5
120°	424.5	424.8	424.8	424.5	424.2	424.0	423.7
122.5°	452.4	452.6	452.5	452.3	451.9	451.7	451.4
125°	491.8	492.2	492.5	492.7	492.7	492.9	493.1
127.5°	530.2	530.1	530.0	529.9	529.8	529.7	529.6
130°	554.1	554.3	554.4	554.4	554.4	554.4	554.4
132.5°	577.4	577.6	577.6	577.5	577.3	577.3	577.2
135°	609.7	610.0	610.2	610.5	610.8	611.1	611.3
137.5°	640.5	640.8	640.9	640.8	640.7	640.6	640.6
140°	659.7	660.0	660.4	660.5	660.6	660.8	660.9
142.5°	677.2	677.5	677.6	677.6	677.7	677.7	677.7
145°	702.2	702.3	702.5	702.8	703.1	703.4	703.6
147.5°	724.3	724.4	724.5	724.7	724.8	724.9	725.1
150°	738.3	738.3	738.4	738.6	738.6	738.8	738.9
152.5°	750.9	751.1	751.1	751.1	751.0	750.9	750.8
155°	767.9	768.4	768.5	768.0	767.6	767.2	766.8
157.5°	782.4	783.1	783.1	782.4	781.6	780.9	780.2
160°	791.6	792.4	792.4	791.6	790.8	790.0	789.1
162.5°	799.0	799.9	799.8	798.8	797.9	797.0	796.1
165°	809.8	810.9	810.8	809.5	808.3	807.1	805.8
167.5°	817.5	818.7	818.6	817.3	815.9	814.5	813.2
170°	822.1	823.2	823.1	821.7	820.4	819.0	817.6
172.5°	825.1	826.2	826.0	824.6	823.1	821.6	820.1
175°	828.8	830.0	829.8	828.1	826.5	824.8	823.2
177.5°	829.8	830.7	830.4	829.1	827.8	826.5	825.1
180°	828.1	828.1	828.1	828.1	828.1	828.1	828.1

(END OF REPORT)