

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: P332968-935

Luminaire Tested: **S124RDIP-S1020D810U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332968-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIP-S1020D810U935-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6151.6 lumens
Efficiency: N/A
Efficacy: 113.1 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: Semi-Direct

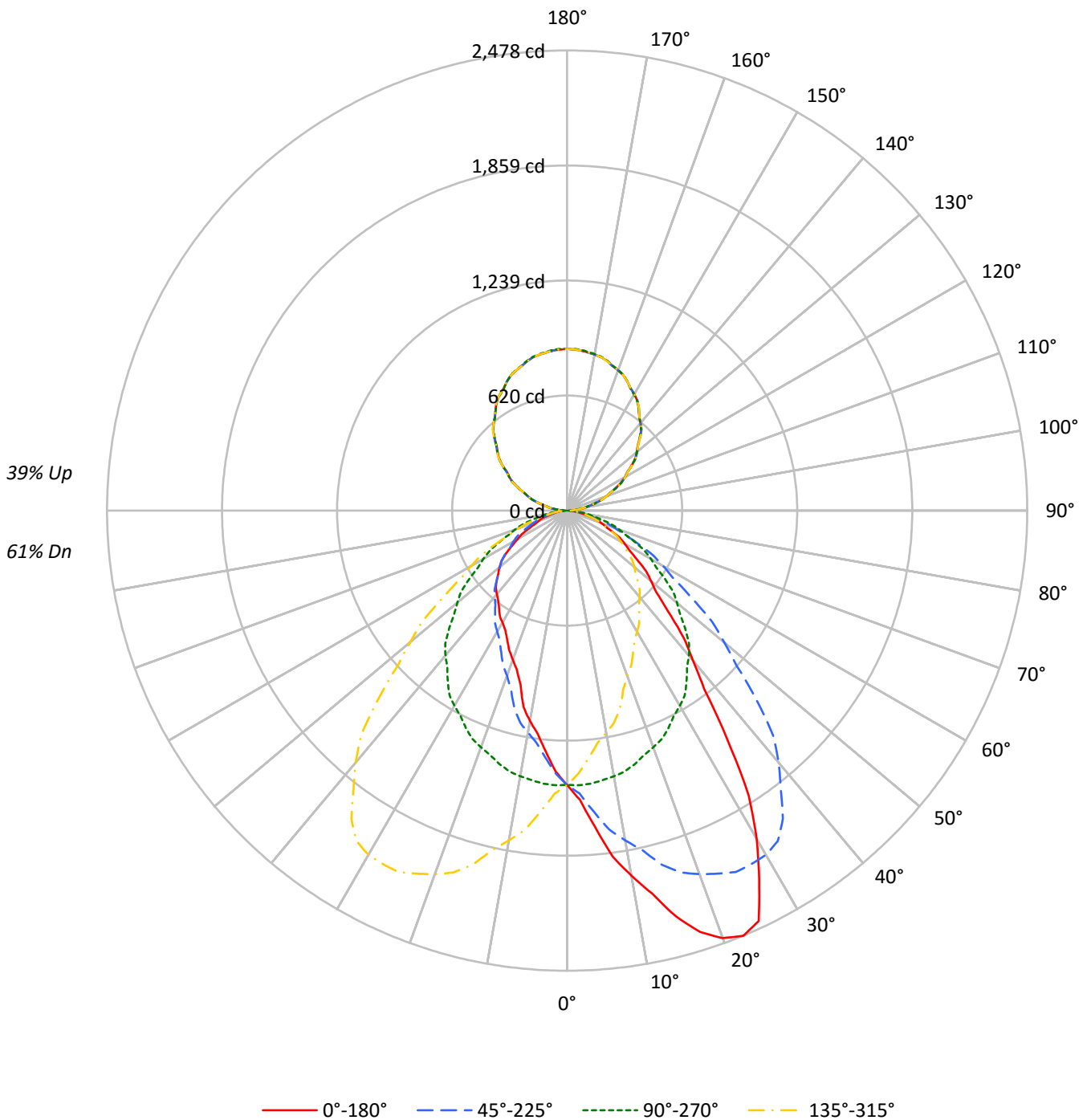
Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	97	93	89	94	91	87	84	79	77	75	69	67	65	59	58	57	52
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	45
3	84	75	68	62	79	71	64	59	62	57	53	54	51	48	47	44	42	38
4	78	67	59	53	72	63	56	51	56	50	46	49	45	41	43	39	37	33
5	71	60	52	46	67	57	49	44	50	44	40	44	40	36	39	35	32	29
6	66	54	46	40	62	51	44	38	45	39	35	40	35	32	35	31	29	26
7	61	49	41	35	57	46	39	34	41	35	31	37	32	28	32	28	26	23
8	57	45	37	32	53	42	35	30	38	32	28	34	29	25	30	26	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	24	21	19
10	50	38	30	26	47	36	29	25	32	27	23	29	24	21	25	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11926	11926	11926	11926
5°	13834	11962	10573	11962
10°	16365	11910	9437	11910
15°	18904	11800	8109	11800
20°	21047	11649	7332	11649
25°	21727	11500	6807	11500
30°	19020	11320	6492	11320
35°	14807	11052	6300	11052
40°	11102	10745	6198	10745
45°	8766	10255	6142	10255
50°	7401	9688	5966	9688
55°	6450	9064	5645	9064
60°	5804	8418	4997	8418
65°	5117	7721	4298	7721
70°	4607	6996	3878	6996
75°	3862	6201	3306	6201
80°	3268	5286	3096	5286
85°	2760	4131	2760	4131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	2.3
10°-20°	431.8	7.0
20°-30°	675.3	11.0
30°-40°	750.8	12.2
40°-50°	666.1	10.8
50°-60°	519.0	8.4
60°-70°	339.8	5.5
70°-80°	167.1	2.7
80°-90°	43.8	0.7
90°-100°	57.4	0.9
100°-110°	170.1	2.8
110°-120°	288.6	4.7
120°-130°	380.6	6.2
130°-140°	427.4	6.9
140°-150°	420.0	6.8
150°-160°	353.3	5.7
160°-170°	235.0	3.8
170°-180°	82.3	1.3
0°-30°	1250.3	20.3
0°-40°	2001.0	32.5
0°-60°	3186.1	51.8
0°-90°	3736.9	60.7
90°-120°	516.1	8.4
90°-150°	1744.1	28.4
90°-180°	2415.0	39.3
0°-180°	6151.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1477	1477	1477	1477	1477	
5°	1707	1476	1305	1476	1707	173
15°	2262	1412	970	1412	2262	643
25°	2439	1291	764	1291	2439	1082
35°	1502	1121	639	1121	1502	942
45°	768	898	538	898	768	608
55°	458	644	401	644	458	417
65°	268	404	225	404	268	269
75°	124	199	106	199	124	136
85°	30	45	30	45	30	34
90°	20	2	20	2	20	12
95°	53	40	53	40	53	55
105°	164	157	164	157	164	173
115°	291	294	291	294	291	287
125°	424	427	424	427	424	378
135°	552	551	552	551	552	426
145°	670	670	670	670	670	420
155°	767	767	767	767	767	353
165°	833	835	833	835	833	235
175°	865	869	865	869	865	82
180°	870	870	870	870	870	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1558.2	1562.5	1558.2	1557.8	1553.1	1551.6	1549.7	1543.5	1532.1	1525.4	1526.8
5°	1707.1	1721.9	1713.6	1712.4	1699.4	1686.3	1677.9	1658.9	1638.7	1625.0	1613.6
7.5°	1879.2	1887.7	1882.6	1874.2	1853.0	1841.0	1821.7	1796.6	1760.3	1732.5	1707.2
10°	1996.3	2003.5	2001.1	1985.6	1970.1	1938.6	1920.7	1885.7	1839.8	1803.5	1769.5
12.5°	2111.6	2119.2	2098.3	2098.9	2069.7	2044.8	2016.5	1972.3	1919.3	1872.5	1830.1
15°	2261.8	2252.3	2252.3	2240.4	2207.6	2173.2	2144.0	2097.6	2030.8	1974.9	1916.0
17.5°	2379.5	2382.7	2377.9	2349.8	2324.1	2288.4	2234.9	2180.7	2118.8	2043.8	1983.5
20°	2449.9	2449.9	2444.6	2425.5	2392.2	2354.1	2296.4	2237.4	2158.9	2083.3	2015.4
22.5°	2478.5	2480.4	2474.1	2458.3	2428.4	2391.2	2342.0	2282.2	2201.2	2116.1	2032.0
25°	2439.2	2450.5	2451.7	2447.5	2438.6	2416.0	2373.7	2312.4	2239.8	2147.5	2057.0
27.5°	2239.5	2253.8	2266.2	2286.8	2314.2	2328.5	2330.4	2299.2	2235.8	2147.1	2056.0
30°	2040.4	2052.3	2091.0	2141.6	2180.8	2216.6	2247.6	2255.8	2220.2	2140.4	2044.5
32.5°	1819.5	1835.7	1874.3	1928.7	1994.2	2054.7	2124.2	2159.6	2158.7	2110.8	2022.1
35°	1502.4	1514.2	1550.0	1607.1	1685.7	1775.6	1885.7	1971.3	2029.6	2025.5	1971.3
37.5°	1211.6	1225.0	1261.1	1308.5	1384.7	1496.0	1602.6	1720.6	1828.5	1889.1	1871.0
40°	1053.5	1054.1	1089.3	1138.1	1209.4	1306.5	1422.5	1553.5	1673.7	1771.9	1791.0
42.5°	928.8	928.8	952.1	1004.7	1056.2	1147.5	1258.3	1388.3	1529.0	1642.4	1692.9
45°	767.8	773.2	792.2	823.8	864.3	941.6	1030.3	1151.2	1308.9	1443.4	1527.3
47.5°	650.2	658.1	670.2	695.9	728.1	779.7	853.1	961.7	1089.9	1237.9	1357.4
50°	589.3	590.5	605.9	620.2	648.2	689.2	753.5	844.0	961.8	1104.1	1236.8
52.5°	536.9	536.7	546.0	564.0	586.8	618.8	670.7	753.0	857.6	985.1	1122.1
55°	458.3	461.3	468.5	482.7	500.0	522.6	563.7	625.6	707.7	816.7	941.1
57.5°	398.6	400.1	405.7	411.7	427.6	444.0	474.8	517.8	587.1	676.3	792.2
60°	359.5	360.1	361.9	370.8	383.3	398.8	419.7	455.9	514.3	595.8	687.5
62.5°	321.4	322.4	325.2	331.7	341.4	352.1	373.9	403.1	451.4	521.1	603.6
65°	267.9	268.5	272.6	275.0	282.8	292.2	308.3	328.0	361.3	419.7	482.2
67.5°	223.8	223.8	224.0	227.2	232.6	238.9	248.6	264.2	289.4	325.2	380.3
70°	195.2	195.2	196.4	198.2	201.2	206.6	211.9	223.8	242.3	271.4	313.7
72.5°	168.6	169.0	170.2	170.6	172.1	176.5	180.5	188.1	201.8	223.8	258.0
75°	123.8	125.6	128.5	131.0	133.9	133.4	137.5	142.2	146.5	159.5	179.2
77.5°	92.1	91.2	91.5	93.6	93.9	94.5	97.5	101.2	104.3	110.5	117.5
80°	70.3	70.3	72.0	72.6	72.0	72.6	75.6	77.4	78.6	80.9	87.5
82.5°	53.1	54.1	53.5	54.1	54.4	55.0	57.5	57.9	59.1	60.0	62.8
85°	29.8	30.4	30.9	29.8	29.8	29.8	30.9	31.5	32.7	32.1	33.3
87.5°	14.6	13.9	14.4	14.3	14.7	14.1	14.5	15.2	14.1	14.4	14.1
90°	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6	15.7	14.8	13.6
92.5°	29.9	29.7	29.5	29.4	29.2	28.8	28.2	27.7	27.2	26.7	25.8
95°	53.2	53.2	53.2	53.2	53.2	53.0	52.5	52.1	51.6	51.1	50.1
97.5°	83.3	83.3	83.3	83.3	83.3	83.1	82.5	82.0	81.5	80.9	79.6
100°	104.4	104.4	104.4	104.4	104.4	104.2	103.9	103.6	103.3	103.0	101.6
102.5°	128.0	127.9	127.8	127.7	127.5	127.3	126.8	126.5	126.1	125.6	124.4
105°	164.3	163.8	163.3	162.9	162.5	162.0	161.5	161.1	160.7	160.2	159.6
107.5°	199.5	199.6	199.6	199.6	199.7	199.4	199.0	198.6	198.2	197.8	197.7
110°	224.8	224.4	223.9	223.5	223.0	222.9	223.3	223.5	223.9	224.1	224.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	250.6	250.6	250.5	250.4	250.3	250.3	250.4	250.4	250.5	250.6	250.8
115°	290.8	290.9	291.1	291.3	291.4	291.5	291.7	291.8	292.0	292.1	292.4
117.5°	329.0	329.3	329.6	329.9	330.2	330.6	331.1	331.7	332.2	332.7	332.9
120°	358.1	357.8	357.5	357.2	356.9	357.1	357.8	358.6	359.4	360.2	360.6
122.5°	382.4	382.9	383.4	383.9	384.5	385.0	385.6	386.0	386.5	387.0	387.3
125°	424.0	424.4	424.6	425.0	425.2	425.6	425.9	426.2	426.5	426.8	426.9
127.5°	462.7	463.0	463.2	463.4	463.6	463.9	464.3	464.5	464.9	465.1	465.4
130°	488.0	488.6	489.2	489.8	490.4	490.9	491.1	491.5	491.7	492.1	492.1
132.5°	515.0	515.1	515.4	515.7	515.9	516.2	516.4	516.8	517.0	517.4	517.5
135°	552.0	552.4	552.8	553.3	553.7	554.1	554.4	554.7	555.0	555.3	555.3
137.5°	590.9	590.7	590.6	590.6	590.5	590.6	591.1	591.4	591.9	592.2	591.9
140°	614.6	614.7	614.8	615.0	615.2	615.3	615.4	615.6	615.8	615.9	615.9
142.5°	638.3	638.3	638.3	638.3	638.3	638.4	638.4	638.4	638.5	638.5	638.6
145°	670.5	670.9	671.3	671.8	672.2	672.5	672.7	672.8	673.0	673.1	673.0
147.5°	703.0	703.2	703.3	703.4	703.6	703.7	703.9	704.0	704.1	704.2	704.3
150°	722.9	723.1	723.2	723.4	723.5	723.6	723.6	723.6	723.6	723.6	723.6
152.5°	741.2	741.7	742.0	742.4	742.8	742.8	742.4	742.1	741.8	741.4	741.2
155°	766.7	767.2	767.8	768.4	769.0	769.0	768.4	767.8	767.2	766.7	766.8
157.5°	789.5	790.0	790.5	791.0	791.4	791.5	791.1	790.6	790.1	789.7	789.7
160°	802.4	803.1	803.8	804.6	805.4	805.5	805.0	804.6	804.2	803.7	803.8
162.5°	815.8	816.6	817.3	818.0	818.8	818.8	817.9	817.2	816.4	815.5	815.7
165°	833.4	833.9	834.5	835.1	835.7	835.6	834.7	833.8	832.8	832.0	832.2
167.5°	845.8	846.8	847.7	848.6	849.5	849.5	848.7	847.7	846.9	845.9	845.9
170°	852.8	853.9	855.0	856.0	857.0	857.1	856.2	855.3	854.4	853.5	853.3
172.5°	858.8	859.8	860.8	861.9	863.0	863.0	861.9	860.9	859.9	858.9	858.8
175°	865.0	866.0	867.0	868.1	869.2	869.2	868.1	867.0	866.0	865.0	865.1
177.5°	868.1	869.2	870.1	871.1	872.0	872.1	871.2	870.4	869.5	868.7	868.7
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1522.1	1515.4	1512.1	1504.4	1495.4	1490.6	1486.3	1480.1	1472.1	1463.5	1457.3
5°	1599.3	1585.0	1567.2	1545.8	1526.7	1508.3	1492.2	1476.1	1457.7	1438.6	1419.6
7.5°	1678.6	1650.5	1620.1	1585.0	1550.9	1519.8	1491.3	1463.9	1432.9	1405.2	1379.9
10°	1733.9	1695.7	1653.5	1608.9	1564.2	1525.5	1487.5	1452.9	1414.8	1380.9	1352.3
12.5°	1778.7	1733.9	1683.0	1627.5	1573.7	1527.0	1483.2	1438.1	1394.8	1358.1	1319.9
15°	1852.9	1791.6	1723.1	1656.5	1586.8	1523.1	1464.2	1411.9	1362.4	1310.7	1274.4
17.5°	1903.9	1831.3	1748.0	1667.9	1585.6	1510.5	1442.5	1380.2	1323.2	1270.3	1227.1
20°	1934.4	1854.1	1761.9	1670.8	1578.5	1498.1	1425.0	1355.9	1297.0	1239.8	1195.2
22.5°	1951.5	1862.7	1761.9	1666.5	1570.9	1483.8	1403.5	1331.6	1267.5	1210.3	1160.9
25°	1957.1	1861.8	1758.9	1649.3	1544.5	1452.3	1369.0	1291.0	1219.6	1162.4	1110.1
27.5°	1949.5	1837.3	1731.8	1619.5	1511.4	1414.1	1326.6	1244.7	1173.2	1111.9	1058.2
30°	1938.0	1817.7	1704.7	1588.0	1478.5	1385.1	1292.8	1214.3	1139.8	1076.2	1022.0
32.5°	1913.2	1794.0	1672.3	1552.8	1441.8	1345.6	1258.0	1179.0	1106.0	1040.9	983.4
35°	1864.2	1743.4	1611.3	1488.7	1379.7	1279.7	1197.6	1121.4	1051.7	982.1	921.4
37.5°	1799.6	1676.1	1544.7	1410.4	1301.4	1206.9	1131.6	1060.1	992.1	928.5	861.3
40°	1738.6	1626.1	1490.4	1357.1	1245.2	1154.1	1084.5	1019.6	951.1	888.0	820.8
42.5°	1664.8	1569.0	1431.8	1298.0	1187.6	1099.8	1034.9	971.5	909.2	848.1	777.9
45°	1541.6	1469.0	1340.4	1211.9	1100.5	1013.7	954.2	898.2	843.4	785.1	719.0
47.5°	1400.4	1351.3	1240.3	1108.6	1005.6	927.5	870.0	824.2	777.9	719.6	661.7
50°	1302.3	1270.7	1163.6	1043.4	945.2	873.1	814.2	771.4	732.7	676.7	625.0
52.5°	1197.6	1180.8	1090.3	975.3	880.5	809.9	759.5	720.9	681.7	635.3	586.9
55°	1038.0	1047.0	970.2	870.8	781.5	722.0	676.1	644.0	610.7	571.4	533.9
57.5°	874.9	907.6	856.0	768.8	685.1	630.1	595.6	568.5	540.5	508.0	476.0
60°	777.3	804.7	775.6	698.8	625.6	574.4	542.3	521.4	493.4	463.6	439.3
62.5°	682.1	711.4	694.1	632.1	564.1	520.1	491.8	472.3	451.5	425.6	400.2
65°	562.5	581.5	573.2	530.4	482.2	444.6	418.4	404.2	385.1	366.1	343.5
67.5°	430.8	467.6	462.7	440.0	398.3	369.0	351.9	339.2	321.9	307.7	292.4
70°	354.1	388.1	387.4	369.0	346.4	319.0	307.1	296.4	280.9	267.3	254.8
72.5°	289.9	321.0	325.5	311.4	295.9	275.3	263.8	256.4	241.4	232.0	221.9
75°	202.9	225.6	231.5	231.5	224.4	213.7	203.5	198.8	188.1	179.8	173.8
77.5°	133.1	147.4	156.7	158.8	159.9	156.3	148.0	144.6	136.4	133.5	127.8
80°	94.0	103.6	114.3	117.9	120.8	119.7	116.1	113.7	106.0	103.0	100.6
82.5°	65.0	70.3	79.0	86.9	86.1	89.2	86.1	84.2	78.4	77.2	74.9
85°	33.9	34.5	35.7	41.1	44.1	45.2	45.8	44.6	42.9	42.9	38.7
87.5°	13.9	13.2	13.9	13.6	13.8	15.3	16.4	16.6	15.5	14.4	13.3
90°	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0	3.7	5.3	7.0
92.5°	25.0	24.1	23.3	22.0	20.1	18.2	16.3	14.4	16.3	18.2	20.1
95°	49.1	48.0	47.0	45.8	44.4	43.0	41.8	40.4	41.8	43.0	44.4
97.5°	78.4	77.2	76.0	74.8	73.8	72.7	71.6	70.5	71.6	72.7	73.8
100°	100.3	98.9	97.6	96.6	96.0	95.4	94.8	94.3	94.8	95.4	96.0
102.5°	123.1	121.9	120.7	119.9	119.8	119.5	119.2	119.0	119.2	119.5	119.8
105°	159.0	158.4	157.8	157.5	157.3	157.1	157.0	156.9	157.0	157.1	157.3
107.5°	197.6	197.5	197.4	197.3	197.1	196.9	196.7	196.6	196.7	196.9	197.1
110°	224.5	224.6	224.7	224.6	224.4	224.0	223.8	223.5	223.8	224.0	224.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	251.1	251.3	251.6	251.8	251.7	251.6	251.5	251.5	251.5	251.6	251.7
115°	292.7	293.0	293.3	293.5	293.5	293.5	293.5	293.5	293.5	293.5	293.5
117.5°	333.0	333.3	333.5	333.6	333.4	333.3	333.2	333.0	333.2	333.3	333.4
120°	361.0	361.4	361.9	361.9	361.3	360.7	360.1	359.5	360.1	360.7	361.3
122.5°	387.4	387.7	387.9	387.9	387.6	387.4	387.1	386.9	387.1	387.4	387.6
125°	427.1	427.2	427.3	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4
127.5°	465.6	465.8	466.1	466.0	465.5	465.1	464.6	464.2	464.6	465.1	465.5
130°	492.1	492.1	492.1	491.8	491.4	490.9	490.5	490.0	490.5	490.9	491.4
132.5°	517.6	517.7	517.8	517.7	517.4	517.1	516.8	516.4	516.8	517.1	517.4
135°	555.3	555.3	555.3	554.9	554.0	553.1	552.2	551.3	552.2	553.1	554.0
137.5°	591.8	591.5	591.2	590.9	590.5	590.0	589.7	589.3	589.7	590.0	590.5
140°	615.9	615.9	615.9	615.8	615.4	615.2	614.8	614.6	614.8	615.2	615.4
142.5°	638.8	638.9	639.0	638.9	638.6	638.3	638.0	637.7	638.0	638.3	638.6
145°	672.8	672.7	672.5	672.2	671.6	671.0	670.4	669.8	670.4	671.0	671.6
147.5°	704.5	704.6	704.7	704.4	703.7	702.9	702.2	701.5	702.2	702.9	703.7
150°	723.6	723.6	723.6	723.3	722.7	722.1	721.5	720.9	721.5	722.1	722.7
152.5°	741.1	741.0	740.9	740.6	740.3	739.9	739.6	739.3	739.6	739.9	740.3
155°	767.0	767.2	767.2	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3
157.5°	789.8	789.8	789.8	790.0	790.2	790.5	790.7	791.1	790.7	790.5	790.2
160°	804.0	804.2	804.3	804.4	804.6	804.8	804.9	805.0	804.9	804.8	804.6
162.5°	815.9	816.0	816.1	816.4	816.8	817.2	817.6	817.9	817.6	817.2	816.8
165°	832.6	832.8	833.2	833.5	834.0	834.5	834.9	835.3	834.9	834.5	834.0
167.5°	845.9	845.8	845.8	846.2	846.8	847.4	848.0	848.7	848.0	847.4	846.8
170°	853.3	853.1	852.9	853.3	853.9	854.7	855.5	856.2	855.5	854.7	853.9
172.5°	858.8	858.8	858.8	859.1	859.7	860.3	861.0	861.6	861.0	860.3	859.7
175°	865.2	865.4	865.6	866.0	866.8	867.5	868.2	869.0	868.2	867.5	866.8
177.5°	868.7	868.7	868.7	869.0	869.6	870.2	870.8	871.4	870.8	870.2	869.6
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



TEST NUMBER: P332968-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1450.6	1445.9	1439.7	1432.5	1424.0	1416.3	1413.1	1415.9	1417.3	1413.5	1413.1
5°	1406.5	1391.6	1379.7	1361.8	1347.6	1335.7	1327.3	1323.8	1324.9	1315.4	1313.0
7.5°	1356.8	1339.2	1319.7	1298.5	1278.8	1261.3	1252.1	1247.1	1237.0	1232.7	1225.5
10°	1324.9	1301.1	1282.1	1257.1	1234.5	1213.7	1203.5	1195.2	1185.1	1180.3	1170.2
12.5°	1292.1	1264.5	1243.5	1217.5	1194.5	1169.3	1159.7	1144.3	1128.4	1118.4	1105.4
15°	1245.8	1212.5	1186.9	1155.9	1128.5	1099.9	1074.4	1045.8	1035.1	1012.4	999.4
17.5°	1191.6	1157.8	1126.1	1084.6	1042.3	1006.9	979.6	952.2	935.8	921.4	914.7
20°	1155.9	1125.0	1080.9	1032.7	985.7	946.4	924.4	906.5	888.6	878.6	871.4
22.5°	1122.1	1082.5	1031.4	979.4	932.4	901.6	883.0	864.6	850.1	840.4	831.0
25°	1065.4	1013.7	959.5	900.0	867.8	841.0	820.8	805.9	797.0	784.5	779.7
27.5°	1007.2	944.5	884.8	844.7	811.2	786.8	769.1	757.9	746.7	738.7	732.5
30°	962.4	898.8	845.2	807.1	773.2	752.9	738.7	725.6	716.6	710.1	705.3
32.5°	918.2	854.5	809.5	768.5	741.8	722.0	706.8	697.0	690.0	681.5	678.6
35°	854.1	797.5	758.3	721.4	694.1	676.1	664.3	654.1	648.2	645.8	644.0
37.5°	792.6	746.3	704.0	673.8	649.4	635.3	621.3	616.3	612.3	608.0	609.8
40°	753.5	710.1	672.6	640.4	620.8	605.4	597.0	591.1	587.5	587.5	587.5
42.5°	719.7	677.3	640.7	611.9	592.2	579.1	569.9	564.8	563.7	563.2	566.0
45°	667.3	627.9	591.1	567.2	550.6	537.4	532.1	528.0	528.0	530.4	530.9
47.5°	615.2	578.4	548.8	522.1	506.9	498.7	494.0	491.9	492.1	494.5	497.2
50°	583.3	547.0	517.8	494.0	479.7	472.0	467.9	466.7	467.9	467.9	472.0
52.5°	548.5	516.1	487.3	467.4	451.2	443.9	441.6	440.0	440.7	442.6	444.4
55°	497.6	468.5	441.1	422.0	410.1	405.4	400.0	400.5	399.4	400.5	400.5
57.5°	446.5	420.3	394.9	379.8	369.3	362.4	356.5	358.2	356.5	356.2	355.2
60°	413.7	385.1	364.9	351.2	339.2	333.3	328.0	329.2	327.4	326.1	323.8
62.5°	378.0	354.1	334.8	321.7	312.1	305.2	299.9	298.7	294.5	290.5	285.2
65°	326.1	306.5	289.3	276.8	267.9	262.5	258.3	254.8	245.8	236.3	231.5
67.5°	275.9	261.7	245.6	235.0	227.7	220.7	212.8	206.6	198.3	193.1	190.1
70°	243.4	229.7	216.0	206.0	198.2	191.7	182.7	178.6	172.6	170.2	167.3
72.5°	212.5	199.8	187.0	177.9	169.6	164.5	157.5	153.3	150.7	149.7	146.8
75°	165.5	155.3	145.9	137.5	131.0	127.3	124.4	121.4	120.2	114.9	111.9
77.5°	120.7	114.1	108.1	102.1	97.5	95.1	89.4	85.9	83.9	81.5	80.8
80°	94.0	89.3	83.3	79.7	73.2	70.9	68.4	67.8	67.2	66.6	66.0
82.5°	70.7	66.0	60.0	57.9	56.1	54.7	53.2	52.6	52.0	52.3	52.3
85°	35.7	33.3	33.3	32.7	32.1	31.5	30.9	30.9	30.4	30.9	30.4
87.5°	13.6	13.4	13.7	13.0	13.7	13.9	13.6	13.8	14.5	13.7	13.8
90°	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6	17.5	18.4	19.0
92.5°	22.0	23.3	24.1	25.0	25.8	26.7	27.2	27.7	28.2	28.8	29.2
95°	45.8	47.0	48.0	49.1	50.1	51.1	51.6	52.1	52.5	53.0	53.2
97.5°	74.8	76.0	77.2	78.4	79.6	80.9	81.5	82.0	82.5	83.1	83.3
100°	96.6	97.6	98.9	100.3	101.6	103.0	103.3	103.6	103.9	104.2	104.4
102.5°	119.9	120.7	121.9	123.1	124.4	125.6	126.1	126.5	126.8	127.3	127.5
105°	157.5	157.8	158.4	159.0	159.6	160.2	160.7	161.1	161.5	162.0	162.5
107.5°	197.3	197.4	197.5	197.6	197.7	197.8	198.2	198.6	199.0	199.4	199.7
110°	224.6	224.7	224.6	224.5	224.3	224.1	223.9	223.5	223.3	222.9	223.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	251.8	251.6	251.3	251.1	250.8	250.6	250.5	250.4	250.4	250.3	250.3
115°	293.5	293.3	293.0	292.7	292.4	292.1	292.0	291.8	291.7	291.5	291.4
117.5°	333.6	333.5	333.3	333.0	332.9	332.7	332.2	331.7	331.1	330.6	330.2
120°	361.9	361.9	361.4	361.0	360.6	360.2	359.4	358.6	357.8	357.1	356.9
122.5°	387.9	387.9	387.7	387.4	387.3	387.0	386.5	386.0	385.6	385.0	384.5
125°	427.4	427.3	427.2	427.1	426.9	426.8	426.5	426.2	425.9	425.6	425.2
127.5°	466.0	466.1	465.8	465.6	465.4	465.1	464.9	464.5	464.3	463.9	463.6
130°	491.8	492.1	492.1	492.1	492.1	492.1	491.7	491.5	491.1	490.9	490.4
132.5°	517.7	517.8	517.7	517.6	517.5	517.4	517.0	516.8	516.4	516.2	515.9
135°	554.9	555.3	555.3	555.3	555.3	555.3	555.0	554.7	554.4	554.1	553.7
137.5°	590.9	591.2	591.5	591.8	591.9	592.2	591.9	591.4	591.1	590.6	590.5
140°	615.8	615.9	615.9	615.9	615.9	615.9	615.8	615.6	615.4	615.3	615.2
142.5°	638.9	639.0	638.9	638.8	638.6	638.5	638.5	638.4	638.4	638.4	638.3
145°	672.2	672.5	672.7	672.8	673.0	673.1	673.0	672.8	672.7	672.5	672.2
147.5°	704.4	704.7	704.6	704.5	704.3	704.2	704.1	704.0	703.9	703.7	703.6
150°	723.3	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.5
152.5°	740.6	740.9	741.0	741.1	741.2	741.4	741.8	742.1	742.4	742.8	742.8
155°	767.3	767.2	767.2	767.0	766.8	766.7	767.2	767.8	768.4	769.0	769.0
157.5°	790.0	789.8	789.8	789.8	789.7	789.7	790.1	790.6	791.1	791.5	791.4
160°	804.4	804.3	804.2	804.0	803.8	803.7	804.2	804.6	805.0	805.5	805.4
162.5°	816.4	816.1	816.0	815.9	815.7	815.5	816.4	817.2	817.9	818.8	818.8
165°	833.5	833.2	832.8	832.6	832.2	832.0	832.8	833.8	834.7	835.6	835.7
167.5°	846.2	845.8	845.8	845.9	845.9	845.9	846.9	847.7	848.7	849.5	849.5
170°	853.3	852.9	853.1	853.3	853.3	853.5	854.4	855.3	856.2	857.1	857.0
172.5°	859.1	858.8	858.8	858.8	858.8	858.9	859.9	860.9	861.9	863.0	863.0
175°	866.0	865.6	865.4	865.2	865.1	865.0	866.0	867.0	868.1	869.2	869.2
177.5°	869.0	868.7	868.7	868.7	868.7	868.7	869.5	870.4	871.2	872.1	872.0
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1410.1	1411.1	1407.8	1406.9	1407.8	1411.1	1410.1	1413.1	1413.5	1417.3	1415.9
5°	1308.3	1307.1	1304.1	1304.7	1304.1	1307.1	1308.3	1313.0	1315.4	1324.9	1323.8
7.5°	1221.2	1216.5	1217.8	1213.1	1217.8	1216.5	1221.2	1225.5	1232.7	1237.0	1247.1
10°	1167.8	1161.2	1155.9	1151.2	1155.9	1161.2	1167.8	1170.2	1180.3	1185.1	1195.2
12.5°	1094.9	1089.3	1082.1	1083.6	1082.1	1089.3	1094.9	1105.4	1118.4	1128.4	1144.3
15°	991.6	982.7	968.5	970.2	968.5	982.7	991.6	999.4	1012.4	1035.1	1045.8
17.5°	904.1	904.2	897.7	899.2	897.7	904.2	904.1	914.7	921.4	935.8	952.2
20°	858.9	854.7	855.3	853.5	855.3	854.7	858.9	871.4	878.6	888.6	906.5
22.5°	827.5	822.3	818.2	814.5	818.2	822.3	827.5	831.0	840.4	850.1	864.6
25°	774.4	770.8	765.4	764.2	765.4	770.8	774.4	779.7	784.5	797.0	805.9
27.5°	727.7	727.0	724.9	722.1	724.9	727.0	727.7	732.5	738.7	746.7	757.9
30°	700.6	699.4	698.2	696.4	698.2	699.4	700.6	705.3	710.1	716.6	725.6
32.5°	676.3	675.5	674.3	674.5	674.3	675.5	676.3	678.6	681.5	690.0	697.0
35°	641.6	641.0	639.9	639.3	639.9	641.0	641.6	644.0	645.8	648.2	654.1
37.5°	609.2	610.8	610.1	609.9	610.1	610.8	609.2	609.8	608.0	612.3	616.3
40°	586.9	587.5	588.7	588.1	588.7	587.5	586.9	587.5	587.5	587.5	591.1
42.5°	568.3	568.4	570.1	568.1	570.1	568.4	568.3	566.0	563.2	563.7	564.8
45°	535.1	538.6	538.0	538.0	538.0	538.6	535.1	530.9	530.4	528.0	528.0
47.5°	498.8	501.9	502.7	502.6	502.7	501.9	498.8	497.2	494.5	492.1	491.9
50°	475.0	473.8	475.6	475.0	475.6	473.8	475.0	472.0	467.9	467.9	466.7
52.5°	445.9	446.2	446.1	445.5	446.1	446.2	445.9	444.4	442.6	440.7	440.0
55°	401.1	401.7	400.5	401.1	400.5	401.7	401.1	400.5	400.5	399.4	400.5
57.5°	352.6	349.7	350.9	349.5	350.9	349.7	352.6	355.2	356.2	356.5	358.2
60°	317.9	313.1	311.9	309.5	311.9	313.1	317.9	323.8	326.1	327.4	329.2
62.5°	278.8	275.4	271.4	273.3	271.4	275.4	278.8	285.2	290.5	294.5	298.7
65°	226.8	224.4	222.6	225.0	222.6	224.4	226.8	231.5	236.3	245.8	254.8
67.5°	187.7	186.4	186.4	185.2	186.4	186.4	187.7	190.1	193.1	198.3	206.6
70°	167.3	165.5	165.5	164.3	165.5	165.5	167.3	167.3	170.2	172.6	178.6
72.5°	146.3	144.5	145.0	144.3	145.0	144.5	146.3	146.8	149.7	150.7	153.3
75°	108.3	105.4	105.4	106.0	105.4	105.4	108.3	111.9	114.9	120.2	121.4
77.5°	80.8	80.2	81.1	80.0	81.1	80.2	80.8	80.8	81.5	83.9	85.9
80°	66.0	65.4	64.9	66.6	64.9	65.4	66.0	66.0	66.6	67.2	67.8
82.5°	51.3	51.2	51.1	53.3	51.1	51.2	51.3	52.3	52.3	52.0	52.6
85°	30.9	29.8	30.9	29.8	30.9	29.8	30.9	30.4	30.9	30.4	30.9
87.5°	14.8	14.4	13.9	14.6	13.9	14.4	14.8	13.8	13.7	14.5	13.8
90°	19.3	19.6	19.9	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6
92.5°	29.4	29.5	29.7	29.9	29.7	29.5	29.4	29.2	28.8	28.2	27.7
95°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.0	52.5	52.1
97.5°	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.1	82.5	82.0
100°	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.2	103.9	103.6
102.5°	127.7	127.8	127.9	128.0	127.9	127.8	127.7	127.5	127.3	126.8	126.5
105°	162.9	163.3	163.8	164.3	163.8	163.3	162.9	162.5	162.0	161.5	161.1
107.5°	199.6	199.6	199.6	199.5	199.6	199.6	199.6	199.7	199.4	199.0	198.6
110°	223.5	223.9	224.4	224.8	224.4	223.9	223.5	223.0	222.9	223.3	223.5



TEST NUMBER: P332968-935

CATALOG NUMBER: S124RDIP-S1020D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	250.4	250.5	250.6	250.6	250.6	250.5	250.4	250.3	250.3	250.4	250.4
115°	291.3	291.1	290.9	290.8	290.9	291.1	291.3	291.4	291.5	291.7	291.8
117.5°	329.9	329.6	329.3	329.0	329.3	329.6	329.9	330.2	330.6	331.1	331.7
120°	357.2	357.5	357.8	358.1	357.8	357.5	357.2	356.9	357.1	357.8	358.6
122.5°	383.9	383.4	382.9	382.4	382.9	383.4	383.9	384.5	385.0	385.6	386.0
125°	425.0	424.6	424.4	424.0	424.4	424.6	425.0	425.2	425.6	425.9	426.2
127.5°	463.4	463.2	463.0	462.7	463.0	463.2	463.4	463.6	463.9	464.3	464.5
130°	489.8	489.2	488.6	488.0	488.6	489.2	489.8	490.4	490.9	491.1	491.5
132.5°	515.7	515.4	515.1	515.0	515.1	515.4	515.7	515.9	516.2	516.4	516.8
135°	553.3	552.8	552.4	552.0	552.4	552.8	553.3	553.7	554.1	554.4	554.7
137.5°	590.6	590.6	590.7	590.9	590.7	590.6	590.6	590.5	590.6	591.1	591.4
140°	615.0	614.8	614.7	614.6	614.7	614.8	615.0	615.2	615.3	615.4	615.6
142.5°	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.4	638.4	638.4
145°	671.8	671.3	670.9	670.5	670.9	671.3	671.8	672.2	672.5	672.7	672.8
147.5°	703.4	703.3	703.2	703.0	703.2	703.3	703.4	703.6	703.7	703.9	704.0
150°	723.4	723.2	723.1	722.9	723.1	723.2	723.4	723.5	723.6	723.6	723.6
152.5°	742.4	742.0	741.7	741.2	741.7	742.0	742.4	742.8	742.8	742.4	742.1
155°	768.4	767.8	767.2	766.7	767.2	767.8	768.4	769.0	769.0	768.4	767.8
157.5°	791.0	790.5	790.0	789.5	790.0	790.5	791.0	791.4	791.5	791.1	790.6
160°	804.6	803.8	803.1	802.4	803.1	803.8	804.6	805.4	805.5	805.0	804.6
162.5°	818.0	817.3	816.6	815.8	816.6	817.3	818.0	818.8	818.8	817.9	817.2
165°	835.1	834.5	833.9	833.4	833.9	834.5	835.1	835.7	835.6	834.7	833.8
167.5°	848.6	847.7	846.8	845.8	846.8	847.7	848.6	849.5	849.5	848.7	847.7
170°	856.0	855.0	853.9	852.8	853.9	855.0	856.0	857.0	857.1	856.2	855.3
172.5°	861.9	860.8	859.8	858.8	859.8	860.8	861.9	863.0	863.0	861.9	860.9
175°	868.1	867.0	866.0	865.0	866.0	867.0	868.1	869.2	869.2	868.1	867.0
177.5°	871.1	870.1	869.2	868.1	869.2	870.1	871.1	872.0	872.1	871.2	870.4
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



TEST NUMBER: P332968-935

CATALOG NUMBER: S124RDIP-S1020D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1413.1	1416.3	1424.0	1432.5	1439.7	1445.9	1450.6	1457.3	1463.5	1472.1	1480.1
5°	1327.3	1335.7	1347.6	1361.8	1379.7	1391.6	1406.5	1419.6	1438.6	1457.7	1476.1
7.5°	1252.1	1261.3	1278.8	1298.5	1319.7	1339.2	1356.8	1379.9	1405.2	1432.9	1463.9
10°	1203.5	1213.7	1234.5	1257.1	1282.1	1301.1	1324.9	1352.3	1380.9	1414.8	1452.9
12.5°	1159.7	1169.3	1194.5	1217.5	1243.5	1264.5	1292.1	1319.9	1358.1	1394.8	1438.1
15°	1074.4	1099.9	1128.5	1155.9	1186.9	1212.5	1245.8	1274.4	1310.7	1362.4	1411.9
17.5°	979.6	1006.9	1042.3	1084.6	1126.1	1157.8	1191.6	1227.1	1270.3	1323.2	1380.2
20°	924.4	946.4	985.7	1032.7	1080.9	1125.0	1155.9	1195.2	1239.8	1297.0	1355.9
22.5°	883.0	901.6	932.4	979.4	1031.4	1082.5	1122.1	1160.9	1210.3	1267.5	1331.6
25°	820.8	841.0	867.8	900.0	959.5	1013.7	1065.4	1110.1	1162.4	1219.6	1291.0
27.5°	769.1	786.8	811.2	844.7	884.8	944.5	1007.2	1058.2	1111.9	1173.2	1244.7
30°	738.7	752.9	773.2	807.1	845.2	898.8	962.4	1022.0	1076.2	1139.8	1214.3
32.5°	706.8	722.0	741.8	768.5	809.5	854.5	918.2	983.4	1040.9	1106.0	1179.0
35°	664.3	676.1	694.1	721.4	758.3	797.5	854.1	921.4	982.1	1051.7	1121.4
37.5°	621.3	635.3	649.4	673.8	704.0	746.3	792.6	861.3	928.5	992.1	1060.1
40°	597.0	605.4	620.8	640.4	672.6	710.1	753.5	820.8	888.0	951.1	1019.6
42.5°	569.9	579.1	592.2	611.9	640.7	677.3	719.7	777.9	848.1	909.2	971.5
45°	532.1	537.4	550.6	567.2	591.1	627.9	667.3	719.0	785.1	843.4	898.2
47.5°	494.0	498.7	506.9	522.1	548.8	578.4	615.2	661.7	719.6	777.9	824.2
50°	467.9	472.0	479.7	494.0	517.8	547.0	583.3	625.0	676.7	732.7	771.4
52.5°	441.6	443.9	451.2	467.4	487.3	516.1	548.5	586.9	635.3	681.7	720.9
55°	400.0	405.4	410.1	422.0	441.1	468.5	497.6	533.9	571.4	610.7	644.0
57.5°	356.5	362.4	369.3	379.8	394.9	420.3	446.5	476.0	508.0	540.5	568.5
60°	328.0	333.3	339.2	351.2	364.9	385.1	413.7	439.3	463.6	493.4	521.4
62.5°	299.9	305.2	312.1	321.7	334.8	354.1	378.0	400.2	425.6	451.5	472.3
65°	258.3	262.5	267.9	276.8	289.3	306.5	326.1	343.5	366.1	385.1	404.2
67.5°	212.8	220.7	227.7	235.0	245.6	261.7	275.9	292.4	307.7	321.9	339.2
70°	182.7	191.7	198.2	206.0	216.0	229.7	243.4	254.8	267.3	280.9	296.4
72.5°	157.5	164.5	169.6	177.9	187.0	199.8	212.5	221.9	232.0	241.4	256.4
75°	124.4	127.3	131.0	137.5	145.9	155.3	165.5	173.8	179.8	188.1	198.8
77.5°	89.4	95.1	97.5	102.1	108.1	114.1	120.7	127.8	133.5	136.4	144.6
80°	68.4	70.9	73.2	79.7	83.3	89.3	94.0	100.6	103.0	106.0	113.7
82.5°	53.2	54.7	56.1	57.9	60.0	66.0	70.7	74.9	77.2	78.4	84.2
85°	30.9	31.5	32.1	32.7	33.3	33.3	35.7	38.7	42.9	42.9	44.6
87.5°	13.6	13.9	13.7	13.0	13.7	13.4	13.6	13.3	14.4	15.5	16.6
90°	15.7	14.8	13.6	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0
92.5°	27.2	26.7	25.8	25.0	24.1	23.3	22.0	20.1	18.2	16.3	14.4
95°	51.6	51.1	50.1	49.1	48.0	47.0	45.8	44.4	43.0	41.8	40.4
97.5°	81.5	80.9	79.6	78.4	77.2	76.0	74.8	73.8	72.7	71.6	70.5
100°	103.3	103.0	101.6	100.3	98.9	97.6	96.6	96.0	95.4	94.8	94.3
102.5°	126.1	125.6	124.4	123.1	121.9	120.7	119.9	119.8	119.5	119.2	119.0
105°	160.7	160.2	159.6	159.0	158.4	157.8	157.5	157.3	157.1	157.0	156.9
107.5°	198.2	197.8	197.7	197.6	197.5	197.4	197.3	197.1	196.9	196.7	196.6
110°	223.9	224.1	224.3	224.5	224.6	224.7	224.6	224.4	224.0	223.8	223.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	250.5	250.6	250.8	251.1	251.3	251.6	251.8	251.7	251.6	251.5	251.5
115°	292.0	292.1	292.4	292.7	293.0	293.3	293.5	293.5	293.5	293.5	293.5
117.5°	332.2	332.7	332.9	333.0	333.3	333.5	333.6	333.4	333.3	333.2	333.0
120°	359.4	360.2	360.6	361.0	361.4	361.9	361.9	361.3	360.7	360.1	359.5
122.5°	386.5	387.0	387.3	387.4	387.7	387.9	387.9	387.6	387.4	387.1	386.9
125°	426.5	426.8	426.9	427.1	427.2	427.3	427.4	427.4	427.4	427.4	427.4
127.5°	464.9	465.1	465.4	465.6	465.8	466.1	466.0	465.5	465.1	464.6	464.2
130°	491.7	492.1	492.1	492.1	492.1	492.1	491.8	491.4	490.9	490.5	490.0
132.5°	517.0	517.4	517.5	517.6	517.7	517.8	517.7	517.4	517.1	516.8	516.4
135°	555.0	555.3	555.3	555.3	555.3	555.3	554.9	554.0	553.1	552.2	551.3
137.5°	591.9	592.2	591.9	591.8	591.5	591.2	590.9	590.5	590.0	589.7	589.3
140°	615.8	615.9	615.9	615.9	615.9	615.9	615.8	615.4	615.2	614.8	614.6
142.5°	638.5	638.5	638.6	638.8	638.9	639.0	638.9	638.6	638.3	638.0	637.7
145°	673.0	673.1	673.0	672.8	672.7	672.5	672.2	671.6	671.0	670.4	669.8
147.5°	704.1	704.2	704.3	704.5	704.6	704.7	704.4	703.7	702.9	702.2	701.5
150°	723.6	723.6	723.6	723.6	723.6	723.6	723.3	722.7	722.1	721.5	720.9
152.5°	741.8	741.4	741.2	741.1	741.0	740.9	740.6	740.3	739.9	739.6	739.3
155°	767.2	766.7	766.8	767.0	767.2	767.2	767.3	767.3	767.3	767.3	767.3
157.5°	790.1	789.7	789.7	789.8	789.8	789.8	790.0	790.2	790.5	790.7	791.1
160°	804.2	803.7	803.8	804.0	804.2	804.3	804.4	804.6	804.8	804.9	805.0
162.5°	816.4	815.5	815.7	815.9	816.0	816.1	816.4	816.8	817.2	817.6	817.9
165°	832.8	832.0	832.2	832.6	832.8	833.2	833.5	834.0	834.5	834.9	835.3
167.5°	846.9	845.9	845.9	845.9	845.8	845.8	846.2	846.8	847.4	848.0	848.7
170°	854.4	853.5	853.3	853.3	853.1	852.9	853.3	853.9	854.7	855.5	856.2
172.5°	859.9	858.9	858.8	858.8	858.8	858.8	859.1	859.7	860.3	861.0	861.6
175°	866.0	865.0	865.1	865.2	865.4	865.6	866.0	866.8	867.5	868.2	869.0
177.5°	869.5	868.7	868.7	868.7	868.7	868.7	869.0	869.6	870.2	870.8	871.4
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



TEST NUMBER: P332968-935

CATALOG NUMBER: S124RDIP-S1020D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1486.3	1490.6	1495.4	1504.4	1512.1	1515.4	1522.1	1526.8	1525.4	1532.1	1543.5
5°	1492.2	1508.3	1526.7	1545.8	1567.2	1585.0	1599.3	1613.6	1625.0	1638.7	1658.9
7.5°	1491.3	1519.8	1550.9	1585.0	1620.1	1650.5	1678.6	1707.2	1732.5	1760.3	1796.6
10°	1487.5	1525.5	1564.2	1608.9	1653.5	1695.7	1733.9	1769.5	1803.5	1839.8	1885.7
12.5°	1483.2	1527.0	1573.7	1627.5	1683.0	1733.9	1778.7	1830.1	1872.5	1919.3	1972.3
15°	1464.2	1523.1	1586.8	1656.5	1723.1	1791.6	1852.9	1916.0	1974.9	2030.8	2097.6
17.5°	1442.5	1510.5	1585.6	1667.9	1748.0	1831.3	1903.9	1983.5	2043.8	2118.8	2180.7
20°	1425.0	1498.1	1578.5	1670.8	1761.9	1854.1	1934.4	2015.4	2083.3	2158.9	2237.4
22.5°	1403.5	1483.8	1570.9	1666.5	1761.9	1862.7	1951.5	2032.0	2116.1	2201.2	2282.2
25°	1369.0	1452.3	1544.5	1649.3	1758.9	1861.8	1957.1	2057.0	2147.5	2239.8	2312.4
27.5°	1326.6	1414.1	1511.4	1619.5	1731.8	1837.3	1949.5	2056.0	2147.1	2235.8	2299.2
30°	1292.8	1385.1	1478.5	1588.0	1704.7	1817.7	1938.0	2044.5	2140.4	2220.2	2255.8
32.5°	1258.0	1345.6	1441.8	1552.8	1672.3	1794.0	1913.2	2022.1	2110.8	2158.7	2159.6
35°	1197.6	1279.7	1379.7	1488.7	1611.3	1743.4	1864.2	1971.3	2025.5	2029.6	1971.3
37.5°	1131.6	1206.9	1301.4	1410.4	1544.7	1676.1	1799.6	1871.0	1889.1	1828.5	1720.6
40°	1084.5	1154.1	1245.2	1357.1	1490.4	1626.1	1738.6	1791.0	1771.9	1673.7	1553.5
42.5°	1034.9	1099.8	1187.6	1298.0	1431.8	1569.0	1664.8	1692.9	1642.4	1529.0	1388.3
45°	954.2	1013.7	1100.5	1211.9	1340.4	1469.0	1541.6	1527.3	1443.4	1308.9	1151.2
47.5°	870.0	927.5	1005.6	1108.6	1240.3	1351.3	1400.4	1357.4	1237.9	1089.9	961.7
50°	814.2	873.1	945.2	1043.4	1163.6	1270.7	1302.3	1236.8	1104.1	961.8	844.0
52.5°	759.5	809.9	880.5	975.3	1090.3	1180.8	1197.6	1122.1	985.1	857.6	753.0
55°	676.1	722.0	781.5	870.8	970.2	1047.0	1038.0	941.1	816.7	707.7	625.6
57.5°	595.6	630.1	685.1	768.8	856.0	907.6	874.9	792.2	676.3	587.1	517.8
60°	542.3	574.4	625.6	698.8	775.6	804.7	777.3	687.5	595.8	514.3	455.9
62.5°	491.8	520.1	564.1	632.1	694.1	711.4	682.1	603.6	521.1	451.4	403.1
65°	418.4	444.6	482.2	530.4	573.2	581.5	562.5	482.2	419.7	361.3	328.0
67.5°	351.9	369.0	398.3	440.0	462.7	467.6	430.8	380.3	325.2	289.4	264.2
70°	307.1	319.0	346.4	369.0	387.4	388.1	354.1	313.7	271.4	242.3	223.8
72.5°	263.8	275.3	295.9	311.4	325.5	321.0	289.9	258.0	223.8	201.8	188.1
75°	203.5	213.7	224.4	231.5	231.5	225.6	202.9	179.2	159.5	146.5	142.2
77.5°	148.0	156.3	159.9	158.8	156.7	147.4	133.1	117.5	110.5	104.3	101.2
80°	116.1	119.7	120.8	117.9	114.3	103.6	94.0	87.5	80.9	78.6	77.4
82.5°	86.1	89.2	86.1	86.9	79.0	70.3	65.0	62.8	60.0	59.1	57.9
85°	45.8	45.2	44.1	41.1	35.7	34.5	33.9	33.3	32.1	32.7	31.5
87.5°	16.4	15.3	13.8	13.6	13.9	13.2	13.9	14.1	14.4	14.1	15.2
90°	3.7	5.3	7.0	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6
92.5°	16.3	18.2	20.1	22.0	23.3	24.1	25.0	25.8	26.7	27.2	27.7
95°	41.8	43.0	44.4	45.8	47.0	48.0	49.1	50.1	51.1	51.6	52.1
97.5°	71.6	72.7	73.8	74.8	76.0	77.2	78.4	79.6	80.9	81.5	82.0
100°	94.8	95.4	96.0	96.6	97.6	98.9	100.3	101.6	103.0	103.3	103.6
102.5°	119.2	119.5	119.8	119.9	120.7	121.9	123.1	124.4	125.6	126.1	126.5
105°	157.0	157.1	157.3	157.5	157.8	158.4	159.0	159.6	160.2	160.7	161.1
107.5°	196.7	196.9	197.1	197.3	197.4	197.5	197.6	197.7	197.8	198.2	198.6
110°	223.8	224.0	224.4	224.6	224.7	224.6	224.5	224.3	224.1	223.9	223.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	251.5	251.6	251.7	251.8	251.6	251.3	251.1	250.8	250.6	250.5	250.4
115°	293.5	293.5	293.5	293.5	293.3	293.0	292.7	292.4	292.1	292.0	291.8
117.5°	333.2	333.3	333.4	333.6	333.5	333.3	333.0	332.9	332.7	332.2	331.7
120°	360.1	360.7	361.3	361.9	361.9	361.4	361.0	360.6	360.2	359.4	358.6
122.5°	387.1	387.4	387.6	387.9	387.9	387.7	387.4	387.3	387.0	386.5	386.0
125°	427.4	427.4	427.4	427.4	427.3	427.2	427.1	426.9	426.8	426.5	426.2
127.5°	464.6	465.1	465.5	466.0	466.1	465.8	465.6	465.4	465.1	464.9	464.5
130°	490.5	490.9	491.4	491.8	492.1	492.1	492.1	492.1	492.1	491.7	491.5
132.5°	516.8	517.1	517.4	517.7	517.8	517.7	517.6	517.5	517.4	517.0	516.8
135°	552.2	553.1	554.0	554.9	555.3	555.3	555.3	555.3	555.3	555.0	554.7
137.5°	589.7	590.0	590.5	590.9	591.2	591.5	591.8	591.9	592.2	591.9	591.4
140°	614.8	615.2	615.4	615.8	615.9	615.9	615.9	615.9	615.9	615.8	615.6
142.5°	638.0	638.3	638.6	638.9	639.0	638.9	638.8	638.6	638.5	638.5	638.4
145°	670.4	671.0	671.6	672.2	672.5	672.7	672.8	673.0	673.1	673.0	672.8
147.5°	702.2	702.9	703.7	704.4	704.7	704.6	704.5	704.3	704.2	704.1	704.0
150°	721.5	722.1	722.7	723.3	723.6	723.6	723.6	723.6	723.6	723.6	723.6
152.5°	739.6	739.9	740.3	740.6	740.9	741.0	741.1	741.2	741.4	741.8	742.1
155°	767.3	767.3	767.3	767.3	767.2	767.2	767.0	766.8	766.7	767.2	767.8
157.5°	790.7	790.5	790.2	790.0	789.8	789.8	789.8	789.7	789.7	790.1	790.6
160°	804.9	804.8	804.6	804.4	804.3	804.2	804.0	803.8	803.7	804.2	804.6
162.5°	817.6	817.2	816.8	816.4	816.1	816.0	815.9	815.7	815.5	816.4	817.2
165°	834.9	834.5	834.0	833.5	833.2	832.8	832.6	832.2	832.0	832.8	833.8
167.5°	848.0	847.4	846.8	846.2	845.8	845.8	845.9	845.9	845.9	846.9	847.7
170°	855.5	854.7	853.9	853.3	852.9	853.1	853.3	853.3	853.5	854.4	855.3
172.5°	861.0	860.3	859.7	859.1	858.8	858.8	858.8	858.8	858.9	859.9	860.9
175°	868.2	867.5	866.8	866.0	865.6	865.4	865.2	865.1	865.0	866.0	867.0
177.5°	870.8	870.2	869.6	869.0	868.7	868.7	868.7	868.7	868.7	869.5	870.4
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1549.7	1551.6	1553.1	1557.8	1558.2	1562.5	1558.2
5°	1677.9	1686.3	1699.4	1712.4	1713.6	1721.9	1707.1
7.5°	1821.7	1841.0	1853.0	1874.2	1882.6	1887.7	1879.2
10°	1920.7	1938.6	1970.1	1985.6	2001.1	2003.5	1996.3
12.5°	2016.5	2044.8	2069.7	2098.9	2098.3	2119.2	2111.6
15°	2144.0	2173.2	2207.6	2240.4	2252.3	2252.3	2261.8
17.5°	2234.9	2288.4	2324.1	2349.8	2377.9	2382.7	2379.5
20°	2296.4	2354.1	2392.2	2425.5	2444.6	2449.9	2449.9
22.5°	2342.0	2391.2	2428.4	2458.3	2474.1	2480.4	2478.5
25°	2373.7	2416.0	2438.6	2447.5	2451.7	2450.5	2439.2
27.5°	2330.4	2328.5	2314.2	2286.8	2266.2	2253.8	2239.5
30°	2247.6	2216.6	2180.8	2141.6	2091.0	2052.3	2040.4
32.5°	2124.2	2054.7	1994.2	1928.7	1874.3	1835.7	1819.5
35°	1885.7	1775.6	1685.7	1607.1	1550.0	1514.2	1502.4
37.5°	1602.6	1496.0	1384.7	1308.5	1261.1	1225.0	1211.6
40°	1422.5	1306.5	1209.4	1138.1	1089.3	1054.1	1053.5
42.5°	1258.3	1147.5	1056.2	1004.7	952.1	928.8	928.8
45°	1030.3	941.6	864.3	823.8	792.2	773.2	767.8
47.5°	853.1	779.7	728.1	695.9	670.2	658.1	650.2
50°	753.5	689.2	648.2	620.2	605.9	590.5	589.3
52.5°	670.7	618.8	586.8	564.0	546.0	536.7	536.9
55°	563.7	522.6	500.0	482.7	468.5	461.3	458.3
57.5°	474.8	444.0	427.6	411.7	405.7	400.1	398.6
60°	419.7	398.8	383.3	370.8	361.9	360.1	359.5
62.5°	373.9	352.1	341.4	331.7	325.2	322.4	321.4
65°	308.3	292.2	282.8	275.0	272.6	268.5	267.9
67.5°	248.6	238.9	232.6	227.2	224.0	223.8	223.8
70°	211.9	206.6	201.2	198.2	196.4	195.2	195.2
72.5°	180.5	176.5	172.1	170.6	170.2	169.0	168.6
75°	137.5	133.4	133.9	131.0	128.5	125.6	123.8
77.5°	97.5	94.5	93.9	93.6	91.5	91.2	92.1
80°	75.6	72.6	72.0	72.6	72.0	70.3	70.3
82.5°	57.5	55.0	54.4	54.1	53.5	54.1	53.1
85°	30.9	29.8	29.8	29.8	30.9	30.4	29.8
87.5°	14.5	14.1	14.7	14.3	14.4	13.9	14.6
90°	17.5	18.4	19.0	19.3	19.6	19.9	20.2
92.5°	28.2	28.8	29.2	29.4	29.5	29.7	29.9
95°	52.5	53.0	53.2	53.2	53.2	53.2	53.2
97.5°	82.5	83.1	83.3	83.3	83.3	83.3	83.3
100°	103.9	104.2	104.4	104.4	104.4	104.4	104.4
102.5°	126.8	127.3	127.5	127.7	127.8	127.9	128.0
105°	161.5	162.0	162.5	162.9	163.3	163.8	164.3
107.5°	199.0	199.4	199.7	199.6	199.6	199.6	199.5
110°	223.3	222.9	223.0	223.5	223.9	224.4	224.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	250.4	250.3	250.3	250.4	250.5	250.6	250.6
115°	291.7	291.5	291.4	291.3	291.1	290.9	290.8
117.5°	331.1	330.6	330.2	329.9	329.6	329.3	329.0
120°	357.8	357.1	356.9	357.2	357.5	357.8	358.1
122.5°	385.6	385.0	384.5	383.9	383.4	382.9	382.4
125°	425.9	425.6	425.2	425.0	424.6	424.4	424.0
127.5°	464.3	463.9	463.6	463.4	463.2	463.0	462.7
130°	491.1	490.9	490.4	489.8	489.2	488.6	488.0
132.5°	516.4	516.2	515.9	515.7	515.4	515.1	515.0
135°	554.4	554.1	553.7	553.3	552.8	552.4	552.0
137.5°	591.1	590.6	590.5	590.6	590.6	590.7	590.9
140°	615.4	615.3	615.2	615.0	614.8	614.7	614.6
142.5°	638.4	638.4	638.3	638.3	638.3	638.3	638.3
145°	672.7	672.5	672.2	671.8	671.3	670.9	670.5
147.5°	703.9	703.7	703.6	703.4	703.3	703.2	703.0
150°	723.6	723.6	723.5	723.4	723.2	723.1	722.9
152.5°	742.4	742.8	742.8	742.4	742.0	741.7	741.2
155°	768.4	769.0	769.0	768.4	767.8	767.2	766.7
157.5°	791.1	791.5	791.4	791.0	790.5	790.0	789.5
160°	805.0	805.5	805.4	804.6	803.8	803.1	802.4
162.5°	817.9	818.8	818.8	818.0	817.3	816.6	815.8
165°	834.7	835.6	835.7	835.1	834.5	833.9	833.4
167.5°	848.7	849.5	849.5	848.6	847.7	846.8	845.8
170°	856.2	857.1	857.0	856.0	855.0	853.9	852.8
172.5°	861.9	863.0	863.0	861.9	860.8	859.8	858.8
175°	868.1	869.2	869.2	868.1	867.0	866.0	865.0
177.5°	871.2	872.1	872.0	871.1	870.1	869.2	868.1
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3

(END OF REPORT)