

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: P332961-927

Luminaire Tested: **SA4XXRDIP-C1020D590U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332961-927
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-C1020D590U927-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

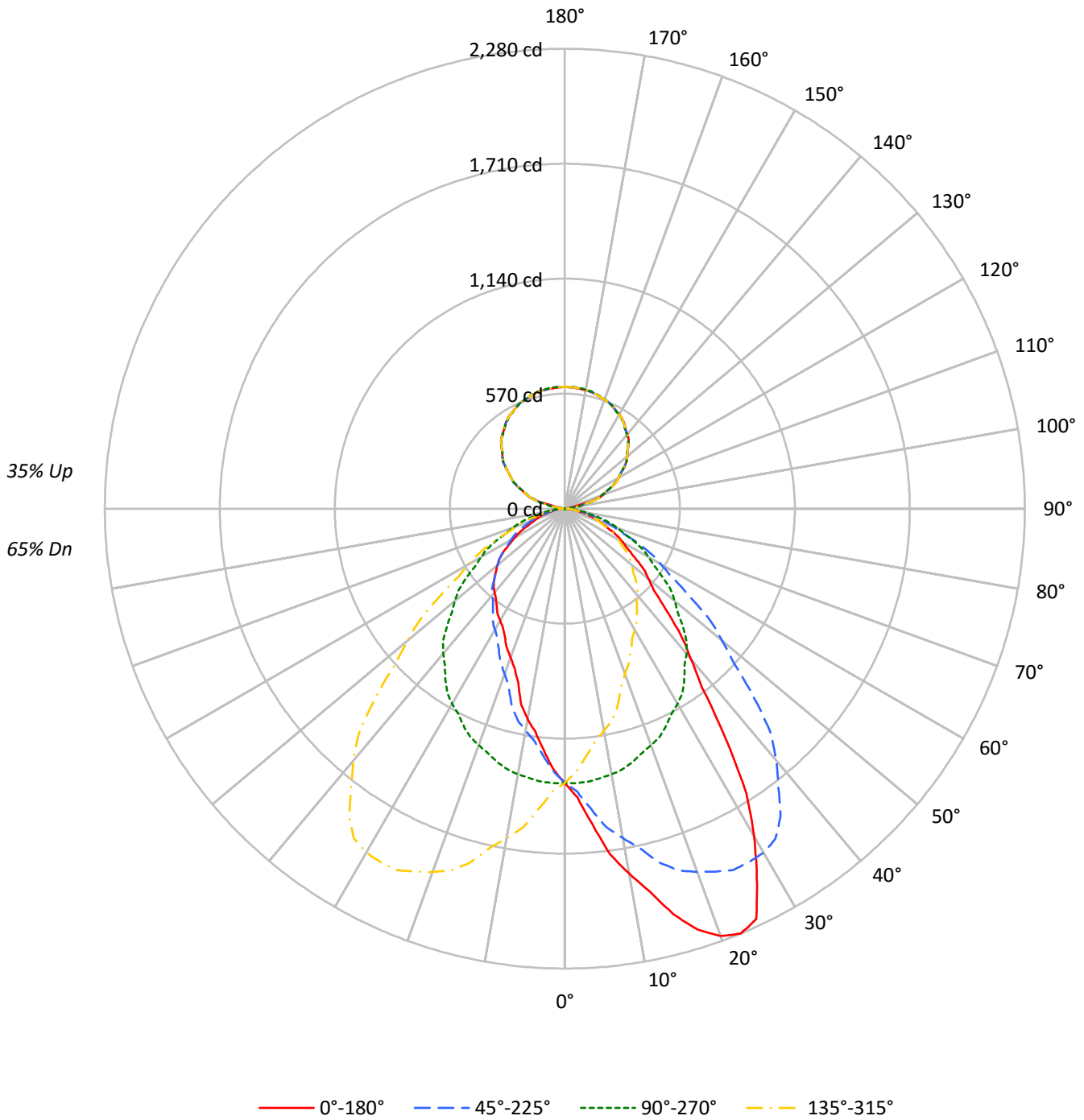
Lumens per Lamp: N/A
Luminaire Lumens: 5306.4 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.8
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	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	65				
1	102	98	94	90	95	92	89	86	81	79	77	72	70	68	63	61	60	56				
2	93	86	80	75	87	81	76	71	72	68	64	64	60	58	56	54	52	48				
3	85	76	69	63	80	72	65	60	64	59	55	57	53	50	50	47	44	41				
4	78	68	60	54	73	64	57	52	57	52	47	51	46	43	45	42	39	36				
5	72	61	53	47	68	57	50	45	52	46	41	46	41	38	41	37	34	31				
6	67	55	47	41	63	52	45	39	47	41	36	42	37	33	37	33	30	28				
7	62	50	42	36	58	47	40	35	42	36	32	38	33	30	34	30	27	25				
8	58	45	37	32	54	43	36	31	39	33	29	35	30	27	31	27	24	22				
9	54	41	34	29	51	39	33	28	36	30	26	32	27	24	29	25	22	20				
10	50	38	31	26	47	36	30	25	33	27	23	30	25	22	27	23	20	18				

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	2.5
10°-20°	397.3	7.5
20°-30°	621.4	11.7
30°-40°	690.7	13.0
40°-50°	612.9	11.5
50°-60°	477.6	9.0
60°-70°	312.7	5.9
70°-80°	153.8	2.9
80°-90°	39.7	0.7
90°-100°	20.7	0.4
100°-110°	131.7	2.5
110°-120°	252.0	4.7
120°-130°	319.9	6.0
130°-140°	342.3	6.5
140°-150°	320.1	6.0
150°-160°	258.1	4.9
160°-170°	166.5	3.1
170°-180°	57.4	1.1
0°-30°	1150.3	21.7
0°-40°	1841.1	34.7
0°-60°	2931.5	55.2
0°-90°	3437.6	64.8
90°-120°	404.5	7.6
90°-150°	1386.8	26.1
90°-180°	1869.0	35.2
0°-180°	5306.4	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°	14	1	14	1	14	7
95°	13	25	13	25	13	10
105°	129	136	129	136	129	112
115°	256	254	256	254	256	253
125°	360	357	360	357	360	320
135°	446	443	446	443	446	343
145°	513	511	513	511	513	321
155°	559	560	559	560	559	258
165°	588	591	588	591	588	166
175°	601	604	601	604	601	57
180°	604	604	604	604	604	



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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°	12.4	11.9	12.3	12.2	12.6	12.1	12.4	13.2	12.2	12.5	12.4
90°	13.5	13.4	13.2	13.0	12.8	12.4	11.7	11.2	10.5	9.9	9.1
92.5°	12.4	12.4	12.4	12.4	12.3	12.0	11.4	10.8	10.2	9.6	8.8
95°	13.1	13.0	12.9	12.8	12.7	12.4	11.7	11.2	10.5	9.9	9.8
97.5°	12.7	12.5	12.4	12.4	12.3	12.2	12.1	12.0	12.0	12.0	23.1
100°	12.7	12.5	12.4	12.4	12.3	13.1	14.7	16.5	18.1	19.9	33.7
102.5°	13.0	13.0	13.0	13.0	12.9	22.1	40.6	58.9	77.4	95.8	97.6
105°	128.8	132.4	136.0	139.7	143.2	144.6	143.7	142.8	141.9	141.0	140.5
107.5°	179.5	179.1	178.7	178.3	177.9	177.5	177.1	176.7	176.3	175.8	175.1
110°	201.5	201.2	200.9	200.7	200.3	200.1	199.9	199.7	199.5	199.3	198.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	223.6	223.2	222.8	222.4	222.0	221.9	222.0	222.0	222.0	222.0	221.8
115°	255.8	255.8	255.8	255.8	255.8	255.6	255.5	255.2	255.1	254.8	254.9
117.5°	288.5	288.5	288.6	288.6	288.7	288.7	288.8	288.8	288.8	288.8	288.6
120°	309.1	309.3	309.5	309.7	309.9	309.9	309.7	309.5	309.3	309.1	309.2
122.5°	329.3	329.5	329.7	329.9	330.1	330.2	330.0	329.9	329.8	329.7	329.5
125°	359.7	359.6	359.5	359.4	359.3	359.1	358.8	358.5	358.2	357.9	358.1
127.5°	386.3	386.4	386.5	386.6	386.7	386.7	386.8	386.9	386.9	387.0	386.5
130°	404.4	404.4	404.4	404.4	404.4	404.4	404.3	404.2	404.1	404.0	403.7
132.5°	421.0	421.1	421.2	421.3	421.4	421.4	421.3	421.2	421.0	421.0	420.6
135°	446.0	445.8	445.6	445.4	445.2	445.0	444.8	444.6	444.4	444.2	443.8
137.5°	467.3	467.4	467.5	467.5	467.5	467.5	467.3	467.1	466.8	466.6	466.2
140°	482.1	482.0	482.0	481.9	481.7	481.6	481.3	480.9	480.6	480.4	480.1
142.5°	494.5	494.4	494.4	494.4	494.4	494.2	494.0	493.8	493.6	493.4	493.2
145°	513.3	513.2	512.9	512.7	512.5	512.4	512.3	512.1	512.1	512.0	512.0
147.5°	528.9	528.9	528.8	528.7	528.5	528.5	528.4	528.3	528.2	528.1	528.2
150°	539.1	539.0	538.9	538.8	538.7	538.6	538.6	538.6	538.6	538.6	538.8
152.5°	547.8	547.8	547.9	548.0	548.0	548.0	547.8	547.6	547.5	547.3	547.5
155°	559.4	559.8	560.0	560.3	560.6	560.5	560.2	559.8	559.4	559.0	559.3
157.5°	569.2	569.7	570.2	570.8	571.2	571.2	570.8	570.2	569.7	569.2	569.5
160°	575.7	576.3	576.9	577.5	578.1	578.1	577.5	576.9	576.3	575.7	575.8
162.5°	580.7	581.5	582.1	582.8	583.5	583.5	582.9	582.3	581.7	581.1	581.2
165°	587.9	588.8	589.7	590.6	591.5	591.6	590.7	589.9	589.1	588.4	588.4
167.5°	593.3	594.2	595.2	596.3	597.2	597.3	596.4	595.6	594.7	593.7	593.8
170°	596.5	597.5	598.5	599.5	600.5	600.6	599.8	599.0	598.2	597.4	597.3
172.5°	598.3	599.4	600.5	601.6	602.6	602.8	602.0	601.2	600.4	599.5	599.4
175°	600.6	601.7	602.9	604.2	605.4	605.5	604.6	603.7	602.8	601.9	601.8
177.5°	602.0	602.9	604.0	604.9	605.9	606.0	605.4	604.8	604.1	603.4	603.2
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



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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°	12.2	11.6	12.3	12.1	12.4	13.9	15.0	15.1	14.1	13.0	11.9
90°	8.3	7.5	6.7	5.8	4.7	3.6	2.5	1.3	2.5	3.6	4.7
92.5°	8.0	7.2	6.3	5.9	5.9	5.8	5.8	5.7	5.8	5.8	5.9
95°	9.7	9.7	9.5	11.2	14.6	18.1	21.5	24.9	21.5	18.1	14.6
97.5°	34.4	45.6	56.7	61.3	59.2	57.0	54.9	52.8	54.9	57.0	59.2
100°	47.6	61.5	75.3	81.4	79.5	77.7	75.9	74.1	75.9	77.7	79.5
102.5°	99.4	101.2	103.1	103.3	102.0	100.6	99.3	98.0	99.3	100.6	102.0
105°	140.0	139.5	138.9	138.4	137.8	137.2	136.7	136.0	136.7	137.2	137.8
107.5°	174.4	173.7	173.0	172.5	172.2	172.0	171.7	171.3	171.7	172.0	172.2
110°	198.0	197.5	196.9	196.4	196.1	195.8	195.5	195.2	195.5	195.8	196.1



TEST NUMBER: P332961-927

CATALOG NUMBER: SA4XXRDIP-C1020D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	221.5	221.2	220.9	220.5	220.0	219.4	218.9	218.3	218.9	219.4	220.0
115°	255.1	255.2	255.2	255.2	254.8	254.5	254.3	254.0	254.3	254.5	254.8
117.5°	288.4	288.2	288.0	287.6	287.2	286.8	286.5	286.1	286.5	286.8	287.2
120°	309.3	309.4	309.5	309.3	309.0	308.6	308.2	307.8	308.2	308.6	309.0
122.5°	329.4	329.3	329.2	328.9	328.7	328.4	328.2	328.0	328.2	328.4	328.7
125°	358.3	358.5	358.7	358.6	358.2	357.8	357.4	357.0	357.4	357.8	358.2
127.5°	386.0	385.6	385.2	384.8	384.8	384.7	384.5	384.4	384.5	384.7	384.8
130°	403.4	403.1	402.7	402.6	402.5	402.3	402.3	402.2	402.3	402.3	402.5
132.5°	420.2	419.9	419.5	419.1	419.0	418.8	418.6	418.4	418.6	418.8	419.0
135°	443.4	443.0	442.6	442.4	442.5	442.7	442.8	442.8	442.8	442.7	442.5
137.5°	465.7	465.2	464.9	464.6	464.5	464.5	464.5	464.5	464.5	464.5	464.5
140°	480.0	479.7	479.5	479.3	479.1	479.0	478.7	478.6	478.7	479.0	479.1
142.5°	493.1	493.0	492.9	492.7	492.3	491.9	491.5	491.2	491.5	491.9	492.3
145°	512.0	512.0	512.0	511.8	511.5	511.2	511.0	510.6	511.0	511.2	511.5
147.5°	528.4	528.5	528.5	528.3	527.8	527.2	526.6	526.1	526.6	527.2	527.8
150°	538.8	538.9	539.1	538.9	538.5	538.1	537.7	537.3	537.7	538.1	538.5
152.5°	547.7	547.9	548.0	548.0	547.6	547.3	547.0	546.7	547.0	547.3	547.6
155°	559.6	559.9	560.2	560.3	560.2	560.1	560.0	559.9	560.0	560.1	560.2
157.5°	569.9	570.2	570.5	570.8	570.8	570.8	570.9	571.0	570.9	570.8	570.8
160°	575.9	576.0	576.1	576.3	576.6	576.9	577.2	577.5	577.2	576.9	576.6
162.5°	581.3	581.4	581.5	581.8	582.2	582.5	582.9	583.3	582.9	582.5	582.2
165°	588.4	588.4	588.4	588.6	589.1	589.6	590.1	590.6	590.1	589.6	589.1
167.5°	593.9	594.0	594.0	594.3	594.8	595.3	595.9	596.4	595.9	595.3	594.8
170°	597.1	597.1	597.0	597.2	597.9	598.4	599.0	599.7	599.0	598.4	597.9
172.5°	599.4	599.3	599.1	599.4	600.0	600.6	601.2	601.8	601.2	600.6	600.0
175°	601.7	601.6	601.5	601.7	602.4	602.9	603.6	604.2	603.6	602.9	602.4
177.5°	603.1	602.9	602.8	603.0	603.6	604.1	604.7	605.2	604.7	604.1	603.6
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



TEST NUMBER: P332961-927

CATALOG NUMBER: SA4XXRDIP-C1020D590U927-4F0-1E-UDD-A

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°	12.1	11.9	12.0	11.3	11.9	12.0	11.7	11.9	12.4	11.6	11.7
90°	5.8	6.7	7.5	8.3	9.1	9.9	10.5	11.2	11.7	12.4	12.8
92.5°	5.9	6.3	7.2	8.0	8.8	9.6	10.2	10.8	11.4	12.0	12.3
95°	11.2	9.5	9.7	9.7	9.8	9.9	10.5	11.2	11.7	12.4	12.7
97.5°	61.3	56.7	45.6	34.4	23.1	12.0	12.0	12.0	12.1	12.2	12.3
100°	81.4	75.3	61.5	47.6	33.7	19.9	18.1	16.5	14.7	13.1	12.3
102.5°	103.3	103.1	101.2	99.4	97.6	95.8	77.4	58.9	40.6	22.1	12.9
105°	138.4	138.9	139.5	140.0	140.5	141.0	141.9	142.8	143.7	144.6	143.2
107.5°	172.5	173.0	173.7	174.4	175.1	175.8	176.3	176.7	177.1	177.5	177.9
110°	196.4	196.9	197.5	198.0	198.7	199.3	199.5	199.7	199.9	200.1	200.3



TEST NUMBER: P332961-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	220.5	220.9	221.2	221.5	221.8	222.0	222.0	222.0	222.0	221.9	222.0
115°	255.2	255.2	255.2	255.1	254.9	254.8	255.1	255.2	255.5	255.6	255.8
117.5°	287.6	288.0	288.2	288.4	288.6	288.8	288.8	288.8	288.8	288.7	288.7
120°	309.3	309.5	309.4	309.3	309.2	309.1	309.3	309.5	309.7	309.9	309.9
122.5°	328.9	329.2	329.3	329.4	329.5	329.7	329.8	329.9	330.0	330.2	330.1
125°	358.6	358.7	358.5	358.3	358.1	357.9	358.2	358.5	358.8	359.1	359.3
127.5°	384.8	385.2	385.6	386.0	386.5	387.0	386.9	386.9	386.8	386.7	386.7
130°	402.6	402.7	403.1	403.4	403.7	404.0	404.1	404.2	404.3	404.4	404.4
132.5°	419.1	419.5	419.9	420.2	420.6	421.0	421.0	421.2	421.3	421.4	421.4
135°	442.4	442.6	443.0	443.4	443.8	444.2	444.4	444.6	444.8	445.0	445.2
137.5°	464.6	464.9	465.2	465.7	466.2	466.6	466.8	467.1	467.3	467.5	467.5
140°	479.3	479.5	479.7	480.0	480.1	480.4	480.6	480.9	481.3	481.6	481.7
142.5°	492.7	492.9	493.0	493.1	493.2	493.4	493.6	493.8	494.0	494.2	494.4
145°	511.8	512.0	512.0	512.0	512.0	512.0	512.1	512.1	512.3	512.4	512.5
147.5°	528.3	528.5	528.5	528.4	528.2	528.1	528.2	528.3	528.4	528.5	528.5
150°	538.9	539.1	538.9	538.8	538.8	538.6	538.6	538.6	538.6	538.6	538.7
152.5°	548.0	548.0	547.9	547.7	547.5	547.3	547.5	547.6	547.8	548.0	548.0
155°	560.3	560.2	559.9	559.6	559.3	559.0	559.4	559.8	560.2	560.5	560.6
157.5°	570.8	570.5	570.2	569.9	569.5	569.2	569.7	570.2	570.8	571.2	571.2
160°	576.3	576.1	576.0	575.9	575.8	575.7	576.3	576.9	577.5	578.1	578.1
162.5°	581.8	581.5	581.4	581.3	581.2	581.1	581.7	582.3	582.9	583.5	583.5
165°	588.6	588.4	588.4	588.4	588.4	588.4	589.1	589.9	590.7	591.6	591.5
167.5°	594.3	594.0	594.0	593.9	593.8	593.7	594.7	595.6	596.4	597.3	597.2
170°	597.2	597.0	597.1	597.1	597.3	597.4	598.2	599.0	599.8	600.6	600.5
172.5°	599.4	599.1	599.3	599.4	599.4	599.5	600.4	601.2	602.0	602.8	602.6
175°	601.7	601.5	601.6	601.7	601.8	601.9	602.8	603.7	604.6	605.5	605.4
177.5°	603.0	602.8	602.9	603.1	603.2	603.4	604.1	604.8	605.4	606.0	605.9
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



TEST NUMBER: P332961-927

CATALOG NUMBER: SA4XXRDIP-C1020D590U927-4F0-1E-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°	12.7	12.3	11.9	12.4	11.9	12.3	12.7	11.7	11.6	12.4	11.9
90°	13.0	13.2	13.4	13.5	13.4	13.2	13.0	12.8	12.4	11.7	11.2
92.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.3	12.0	11.4	10.8
95°	12.8	12.9	13.0	13.1	13.0	12.9	12.8	12.7	12.4	11.7	11.2
97.5°	12.4	12.4	12.5	12.7	12.5	12.4	12.4	12.3	12.2	12.1	12.0
100°	12.4	12.4	12.5	12.7	12.5	12.4	12.4	12.3	13.1	14.7	16.5
102.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.9	22.1	40.6	58.9
105°	139.7	136.0	132.4	128.8	132.4	136.0	139.7	143.2	144.6	143.7	142.8
107.5°	178.3	178.7	179.1	179.5	179.1	178.7	178.3	177.9	177.5	177.1	176.7
110°	200.7	200.9	201.2	201.5	201.2	200.9	200.7	200.3	200.1	199.9	199.7



TEST NUMBER: P332961-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	222.4	222.8	223.2	223.6	223.2	222.8	222.4	222.0	221.9	222.0	222.0
115°	255.8	255.8	255.8	255.8	255.8	255.8	255.8	255.8	255.6	255.5	255.2
117.5°	288.6	288.6	288.5	288.5	288.5	288.6	288.6	288.7	288.7	288.8	288.8
120°	309.7	309.5	309.3	309.1	309.3	309.5	309.7	309.9	309.9	309.7	309.5
122.5°	329.9	329.7	329.5	329.3	329.5	329.7	329.9	330.1	330.2	330.0	329.9
125°	359.4	359.5	359.6	359.7	359.6	359.5	359.4	359.3	359.1	358.8	358.5
127.5°	386.6	386.5	386.4	386.3	386.4	386.5	386.6	386.7	386.7	386.8	386.9
130°	404.4	404.4	404.4	404.4	404.4	404.4	404.4	404.4	404.4	404.3	404.2
132.5°	421.3	421.2	421.1	421.0	421.1	421.2	421.3	421.4	421.4	421.3	421.2
135°	445.4	445.6	445.8	446.0	445.8	445.6	445.4	445.2	445.0	444.8	444.6
137.5°	467.5	467.5	467.4	467.3	467.4	467.5	467.5	467.5	467.5	467.3	467.1
140°	481.9	482.0	482.0	482.1	482.0	482.0	481.9	481.7	481.6	481.3	480.9
142.5°	494.4	494.4	494.4	494.5	494.4	494.4	494.4	494.4	494.2	494.0	493.8
145°	512.7	512.9	513.2	513.3	513.2	512.9	512.7	512.5	512.4	512.3	512.1
147.5°	528.7	528.8	528.9	528.9	528.9	528.8	528.7	528.5	528.5	528.4	528.3
150°	538.8	538.9	539.0	539.1	539.0	538.9	538.8	538.7	538.6	538.6	538.6
152.5°	548.0	547.9	547.8	547.8	547.8	547.9	548.0	548.0	548.0	547.8	547.6
155°	560.3	560.0	559.8	559.4	559.8	560.0	560.3	560.6	560.5	560.2	559.8
157.5°	570.8	570.2	569.7	569.2	569.7	570.2	570.8	571.2	571.2	570.8	570.2
160°	577.5	576.9	576.3	575.7	576.3	576.9	577.5	578.1	578.1	577.5	576.9
162.5°	582.8	582.1	581.5	580.7	581.5	582.1	582.8	583.5	583.5	582.9	582.3
165°	590.6	589.7	588.8	587.9	588.8	589.7	590.6	591.5	591.6	590.7	589.9
167.5°	596.3	595.2	594.2	593.3	594.2	595.2	596.3	597.2	597.3	596.4	595.6
170°	599.5	598.5	597.5	596.5	597.5	598.5	599.5	600.5	600.6	599.8	599.0
172.5°	601.6	600.5	599.4	598.3	599.4	600.5	601.6	602.6	602.8	602.0	601.2
175°	604.2	602.9	601.7	600.6	601.7	602.9	604.2	605.4	605.5	604.6	603.7
177.5°	604.9	604.0	602.9	602.0	602.9	604.0	604.9	605.9	606.0	605.4	604.8
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



TEST NUMBER: P332961-927

CATALOG NUMBER: SA4XXRDIP-C1020D590U927-4F0-1E-UDD-A

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°	11.7	12.0	11.9	11.3	12.0	11.9	12.1	11.9	13.0	14.1	15.1
90°	10.5	9.9	9.1	8.3	7.5	6.7	5.8	4.7	3.6	2.5	1.3
92.5°	10.2	9.6	8.8	8.0	7.2	6.3	5.9	5.9	5.8	5.8	5.7
95°	10.5	9.9	9.8	9.7	9.7	9.5	11.2	14.6	18.1	21.5	24.9
97.5°	12.0	12.0	23.1	34.4	45.6	56.7	61.3	59.2	57.0	54.9	52.8
100°	18.1	19.9	33.7	47.6	61.5	75.3	81.4	79.5	77.7	75.9	74.1
102.5°	77.4	95.8	97.6	99.4	101.2	103.1	103.3	102.0	100.6	99.3	98.0
105°	141.9	141.0	140.5	140.0	139.5	138.9	138.4	137.8	137.2	136.7	136.0
107.5°	176.3	175.8	175.1	174.4	173.7	173.0	172.5	172.2	172.0	171.7	171.3
110°	199.5	199.3	198.7	198.0	197.5	196.9	196.4	196.1	195.8	195.5	195.2



TEST NUMBER: P332961-927

CATALOG NUMBER: SA4XXRDIP-C1020D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	222.0	222.0	221.8	221.5	221.2	220.9	220.5	220.0	219.4	218.9	218.3
115°	255.1	254.8	254.9	255.1	255.2	255.2	255.2	254.8	254.5	254.3	254.0
117.5°	288.8	288.8	288.6	288.4	288.2	288.0	287.6	287.2	286.8	286.5	286.1
120°	309.3	309.1	309.2	309.3	309.4	309.5	309.3	309.0	308.6	308.2	307.8
122.5°	329.8	329.7	329.5	329.4	329.3	329.2	328.9	328.7	328.4	328.2	328.0
125°	358.2	357.9	358.1	358.3	358.5	358.7	358.6	358.2	357.8	357.4	357.0
127.5°	386.9	387.0	386.5	386.0	385.6	385.2	384.8	384.8	384.7	384.5	384.4
130°	404.1	404.0	403.7	403.4	403.1	402.7	402.6	402.5	402.3	402.3	402.2
132.5°	421.0	421.0	420.6	420.2	419.9	419.5	419.1	419.0	418.8	418.6	418.4
135°	444.4	444.2	443.8	443.4	443.0	442.6	442.4	442.5	442.7	442.8	442.8
137.5°	466.8	466.6	466.2	465.7	465.2	464.9	464.6	464.5	464.5	464.5	464.5
140°	480.6	480.4	480.1	480.0	479.7	479.5	479.3	479.1	479.0	478.7	478.6
142.5°	493.6	493.4	493.2	493.1	493.0	492.9	492.7	492.3	491.9	491.5	491.2
145°	512.1	512.0	512.0	512.0	512.0	512.0	511.8	511.5	511.2	511.0	510.6
147.5°	528.2	528.1	528.2	528.4	528.5	528.5	528.3	527.8	527.2	526.6	526.1
150°	538.6	538.6	538.8	538.8	538.9	539.1	538.9	538.5	538.1	537.7	537.3
152.5°	547.5	547.3	547.5	547.7	547.9	548.0	548.0	547.6	547.3	547.0	546.7
155°	559.4	559.0	559.3	559.6	559.9	560.2	560.3	560.2	560.1	560.0	559.9
157.5°	569.7	569.2	569.5	569.9	570.2	570.5	570.8	570.8	570.8	570.9	571.0
160°	576.3	575.7	575.8	575.9	576.0	576.1	576.3	576.6	576.9	577.2	577.5
162.5°	581.7	581.1	581.2	581.3	581.4	581.5	581.8	582.2	582.5	582.9	583.3
165°	589.1	588.4	588.4	588.4	588.4	588.4	588.6	589.1	589.6	590.1	590.6
167.5°	594.7	593.7	593.8	593.9	594.0	594.0	594.3	594.8	595.3	595.9	596.4
170°	598.2	597.4	597.3	597.1	597.1	597.0	597.2	597.9	598.4	599.0	599.7
172.5°	600.4	599.5	599.4	599.4	599.3	599.1	599.4	600.0	600.6	601.2	601.8
175°	602.8	601.9	601.8	601.7	601.6	601.5	601.7	602.4	602.9	603.6	604.2
177.5°	604.1	603.4	603.2	603.1	602.9	602.8	603.0	603.6	604.1	604.7	605.2
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



TEST NUMBER: P332961-927

CATALOG NUMBER: SA4XXRDIP-C1020D590U927-4F0-1E-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°	15.0	13.9	12.4	12.1	12.3	11.6	12.2	12.4	12.5	12.2	13.2
90°	2.5	3.6	4.7	5.8	6.7	7.5	8.3	9.1	9.9	10.5	11.2
92.5°	5.8	5.8	5.9	5.9	6.3	7.2	8.0	8.8	9.6	10.2	10.8
95°	21.5	18.1	14.6	11.2	9.5	9.7	9.7	9.8	9.9	10.5	11.2
97.5°	54.9	57.0	59.2	61.3	56.7	45.6	34.4	23.1	12.0	12.0	12.0
100°	75.9	77.7	79.5	81.4	75.3	61.5	47.6	33.7	19.9	18.1	16.5
102.5°	99.3	100.6	102.0	103.3	103.1	101.2	99.4	97.6	95.8	77.4	58.9
105°	136.7	137.2	137.8	138.4	138.9	139.5	140.0	140.5	141.0	141.9	142.8
107.5°	171.7	172.0	172.2	172.5	173.0	173.7	174.4	175.1	175.8	176.3	176.7
110°	195.5	195.8	196.1	196.4	196.9	197.5	198.0	198.7	199.3	199.5	199.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	218.9	219.4	220.0	220.5	220.9	221.2	221.5	221.8	222.0	222.0	222.0
115°	254.3	254.5	254.8	255.2	255.2	255.2	255.1	254.9	254.8	255.1	255.2
117.5°	286.5	286.8	287.2	287.6	288.0	288.2	288.4	288.6	288.8	288.8	288.8
120°	308.2	308.6	309.0	309.3	309.5	309.4	309.3	309.2	309.1	309.3	309.5
122.5°	328.2	328.4	328.7	328.9	329.2	329.3	329.4	329.5	329.7	329.8	329.9
125°	357.4	357.8	358.2	358.6	358.7	358.5	358.3	358.1	357.9	358.2	358.5
127.5°	384.5	384.7	384.8	384.8	385.2	385.6	386.0	386.5	387.0	386.9	386.9
130°	402.3	402.3	402.5	402.6	402.7	403.1	403.4	403.7	404.0	404.1	404.2
132.5°	418.6	418.8	419.0	419.1	419.5	419.9	420.2	420.6	421.0	421.0	421.2
135°	442.8	442.7	442.5	442.4	442.6	443.0	443.4	443.8	444.2	444.4	444.6
137.5°	464.5	464.5	464.5	464.6	464.9	465.2	465.7	466.2	466.6	466.8	467.1
140°	478.7	479.0	479.1	479.3	479.5	479.7	480.0	480.1	480.4	480.6	480.9
142.5°	491.5	491.9	492.3	492.7	492.9	493.0	493.1	493.2	493.4	493.6	493.8
145°	511.0	511.2	511.5	511.8	512.0	512.0	512.0	512.0	512.0	512.1	512.1
147.5°	526.6	527.2	527.8	528.3	528.5	528.5	528.4	528.2	528.1	528.2	528.3
150°	537.7	538.1	538.5	538.9	539.1	538.9	538.8	538.8	538.6	538.6	538.6
152.5°	547.0	547.3	547.6	548.0	548.0	547.9	547.7	547.5	547.3	547.5	547.6
155°	560.0	560.1	560.2	560.3	560.2	559.9	559.6	559.3	559.0	559.4	559.8
157.5°	570.9	570.8	570.8	570.8	570.5	570.2	569.9	569.5	569.2	569.7	570.2
160°	577.2	576.9	576.6	576.3	576.1	576.0	575.9	575.8	575.7	576.3	576.9
162.5°	582.9	582.5	582.2	581.8	581.5	581.4	581.3	581.2	581.1	581.7	582.3
165°	590.1	589.6	589.1	588.6	588.4	588.4	588.4	588.4	588.4	589.1	589.9
167.5°	595.9	595.3	594.8	594.3	594.0	594.0	593.9	593.8	593.7	594.7	595.6
170°	599.0	598.4	597.9	597.2	597.0	597.1	597.1	597.3	597.4	598.2	599.0
172.5°	601.2	600.6	600.0	599.4	599.1	599.3	599.4	599.4	599.5	600.4	601.2
175°	603.6	602.9	602.4	601.7	601.5	601.6	601.7	601.8	601.9	602.8	603.7
177.5°	604.7	604.1	603.6	603.0	602.8	602.9	603.1	603.2	603.4	604.1	604.8
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



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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°	12.4	12.1	12.6	12.2	12.3	11.9	12.4
90°	11.7	12.4	12.8	13.0	13.2	13.4	13.5
92.5°	11.4	12.0	12.3	12.4	12.4	12.4	12.4
95°	11.7	12.4	12.7	12.8	12.9	13.0	13.1
97.5°	12.1	12.2	12.3	12.4	12.4	12.5	12.7
100°	14.7	13.1	12.3	12.4	12.4	12.5	12.7
102.5°	40.6	22.1	12.9	13.0	13.0	13.0	13.0
105°	143.7	144.6	143.2	139.7	136.0	132.4	128.8
107.5°	177.1	177.5	177.9	178.3	178.7	179.1	179.5
110°	199.9	200.1	200.3	200.7	200.9	201.2	201.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	222.0	221.9	222.0	222.4	222.8	223.2	223.6
115°	255.5	255.6	255.8	255.8	255.8	255.8	255.8
117.5°	288.8	288.7	288.7	288.6	288.6	288.5	288.5
120°	309.7	309.9	309.9	309.7	309.5	309.3	309.1
122.5°	330.0	330.2	330.1	329.9	329.7	329.5	329.3
125°	358.8	359.1	359.3	359.4	359.5	359.6	359.7
127.5°	386.8	386.7	386.7	386.6	386.5	386.4	386.3
130°	404.3	404.4	404.4	404.4	404.4	404.4	404.4
132.5°	421.3	421.4	421.4	421.3	421.2	421.1	421.0
135°	444.8	445.0	445.2	445.4	445.6	445.8	446.0
137.5°	467.3	467.5	467.5	467.5	467.5	467.4	467.3
140°	481.3	481.6	481.7	481.9	482.0	482.0	482.1
142.5°	494.0	494.2	494.4	494.4	494.4	494.4	494.5
145°	512.3	512.4	512.5	512.7	512.9	513.2	513.3
147.5°	528.4	528.5	528.5	528.7	528.8	528.9	528.9
150°	538.6	538.6	538.7	538.8	538.9	539.0	539.1
152.5°	547.8	548.0	548.0	548.0	547.9	547.8	547.8
155°	560.2	560.5	560.6	560.3	560.0	559.8	559.4
157.5°	570.8	571.2	571.2	570.8	570.2	569.7	569.2
160°	577.5	578.1	578.1	577.5	576.9	576.3	575.7
162.5°	582.9	583.5	583.5	582.8	582.1	581.5	580.7
165°	590.7	591.6	591.5	590.6	589.7	588.8	587.9
167.5°	596.4	597.3	597.2	596.3	595.2	594.2	593.3
170°	599.8	600.6	600.5	599.5	598.5	597.5	596.5
172.5°	602.0	602.8	602.6	601.6	600.5	599.4	598.3
175°	604.6	605.5	605.4	604.2	602.9	601.7	600.6
177.5°	605.4	606.0	605.9	604.9	604.0	602.9	602.0
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2

(END OF REPORT)