

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: P331689-840

Luminaire Tested: **SA2XXRDIP-C675D725U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331689-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C675D725U840-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

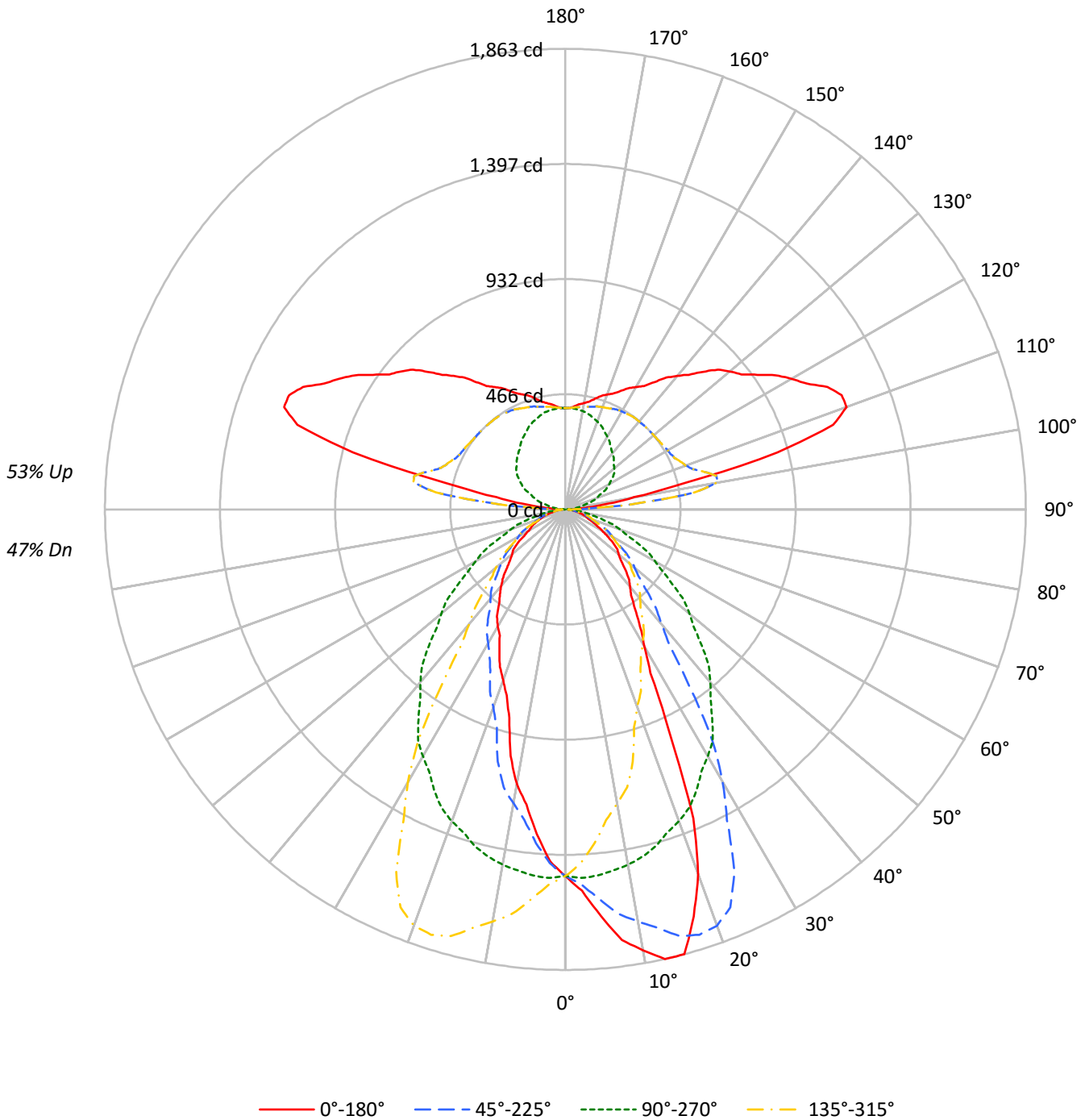
Lumens per Lamp: N/A
Luminaire Lumens: 5424.1 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 45.9
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47				47
1	98	94	90	87	90	87	83	81	73	71	69	60	59	57	49	48	47	41				41
2	90	83	77	72	82	77	72	67	65	61	58	54	51	49	44	42	41	36				36
3	82	74	67	61	76	68	62	57	58	53	50	48	45	42	39	37	35	31				31
4	76	66	58	53	70	61	54	49	52	47	43	44	40	37	36	33	31	28				28
5	70	59	51	46	64	55	48	43	47	42	38	40	36	33	33	30	28	25				25
6	65	53	46	40	60	50	43	38	43	37	33	36	32	29	30	27	25	22				22
7	60	48	41	35	55	45	38	34	39	34	30	33	29	26	28	25	23	20				20
8	56	44	37	32	52	41	35	30	36	31	27	31	27	24	26	23	21	18				18
9	52	41	33	29	48	38	31	27	33	28	24	28	24	22	24	21	19	17				17
10	49	37	30	26	45	35	29	25	31	26	22	26	22	20	22	19	17	15				15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	23954	23954	23954	23954
5°	26752	24104	21371	24104
10°	29681	23935	18525	23935
15°	31141	23584	14596	23584
20°	26996	23063	12631	23063
25°	17706	22352	11277	22352
30°	11917	21490	10206	21490
35°	9652	20402	9207	20402
40°	8585	19220	8517	19220
45°	7768	17831	7606	17831
50°	7068	16458	7043	16458
55°	6646	14933	6559	14933
60°	5561	13533	5493	13533
65°	4688	12287	5318	12287
70°	4334	10976	5013	10976
75°	4049	9551	4629	9551
80°	3738	7857	4119	7857
85°	3446	6206	3631	6206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	2.6
10°-20°	391.9	7.2
20°-30°	505.0	9.3
30°-40°	479.9	8.8
40°-50°	411.1	7.6
50°-60°	313.0	5.8
60°-70°	197.9	3.6
70°-80°	98.8	1.8
80°-90°	29.4	0.5
90°-100°	164.1	3.0
100°-110°	557.0	10.3
110°-120°	591.7	10.9
120°-130°	487.1	9.0
130°-140°	391.2	7.2
140°-150°	295.6	5.4
150°-160°	207.7	3.8
160°-170°	122.3	2.3
170°-180°	39.8	0.7
0°-30°	1037.5	19.1
0°-40°	1517.4	28.0
0°-60°	2241.5	41.3
0°-90°	2567.6	47.3
90°-120°	1312.8	24.2
90°-150°	2486.7	45.8
90°-180°	2856.0	52.7
0°-180°	5424.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1484	1484	1484	1484	1484	
5°	1651	1487	1319	1487	1651	163
15°	1863	1411	873	1411	1863	503
25°	994	1255	633	1255	994	472
35°	490	1035	467	1035	490	313
45°	340	781	333	781	340	263
55°	236	530	233	530	236	207
65°	123	322	139	322	123	125
75°	65	153	74	153	65	69
85°	19	34	20	34	19	21
90°	26	1	26	1	26	15
95°	90	28	90	28	90	117
105°	890	96	890	96	890	861
115°	1171	170	1171	170	1171	1146
125°	950	237	950	237	950	858
135°	787	278	787	278	787	611
145°	628	317	628	317	628	399
155°	528	361	528	361	528	246
165°	463	393	463	393	463	132
175°	418	410	418	410	418	41
180°	410	410	410	410	410	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1543.8	1545.0	1546.3	1543.4	1543.4	1540.9	1535.5	1531.5	1519.8	1518.2	1518.2
5°	1650.6	1649.5	1651.6	1645.0	1635.7	1633.6	1623.8	1610.9	1597.5	1582.6	1579.4
7.5°	1756.8	1755.2	1751.1	1750.0	1742.8	1727.3	1711.5	1694.8	1672.4	1650.7	1639.8
10°	1810.4	1827.5	1817.1	1799.1	1802.7	1778.5	1765.5	1743.4	1724.8	1692.3	1685.2
12.5°	1863.2	1869.9	1866.6	1856.3	1851.7	1834.9	1817.6	1798.3	1764.0	1734.8	1709.5
15°	1863.0	1872.8	1875.3	1872.3	1874.8	1873.8	1864.5	1848.6	1818.7	1786.7	1758.9
17.5°	1725.5	1732.2	1749.2	1760.6	1775.0	1805.5	1820.6	1826.4	1822.0	1803.8	1784.2
20°	1571.2	1559.8	1607.3	1631.5	1652.1	1703.6	1748.0	1765.0	1792.3	1791.8	1786.7
22.5°	1352.6	1355.3	1400.3	1429.1	1489.2	1540.8	1591.3	1655.4	1708.2	1743.1	1763.6
25°	993.9	1013.5	1058.3	1097.5	1164.5	1260.4	1347.5	1448.6	1543.9	1619.1	1690.8
27.5°	746.4	747.9	783.5	819.6	859.4	938.0	1047.6	1168.3	1304.2	1416.4	1545.5
30°	639.2	636.1	651.1	673.3	707.2	768.1	850.5	969.2	1104.7	1273.7	1424.3
32.5°	563.3	563.5	574.8	591.2	619.5	660.5	716.9	813.2	941.4	1107.6	1284.0
35°	489.7	489.2	497.5	509.3	521.2	547.4	586.1	636.6	724.8	879.9	1060.4
37.5°	437.0	439.2	443.2	450.6	463.7	478.4	501.6	535.5	598.2	690.0	841.7
40°	407.3	408.3	413.9	420.1	427.9	439.2	458.3	485.5	531.5	604.7	715.5
42.5°	380.0	381.0	385.1	390.8	396.9	408.3	424.0	447.7	484.8	542.0	633.4
45°	340.2	340.2	343.9	346.4	353.1	363.5	376.3	395.9	421.7	463.9	524.7
47.5°	302.9	303.0	305.4	309.8	314.1	322.0	334.8	350.7	369.5	402.2	454.1
50°	281.4	282.0	283.5	287.1	289.7	296.9	306.7	320.6	340.2	365.5	408.8
52.5°	264.2	263.8	265.8	267.3	269.1	274.3	281.6	293.9	311.3	333.4	369.2
55°	236.1	234.0	237.1	239.7	241.3	243.3	247.4	255.2	270.1	288.7	315.5
57.5°	201.1	200.3	202.4	204.8	209.6	215.2	218.6	223.6	231.4	244.7	271.2
60°	172.2	172.2	176.8	178.3	184.0	191.3	198.4	202.6	210.4	219.0	238.6
62.5°	146.6	147.0	149.2	150.8	153.9	162.8	172.9	182.0	189.2	197.6	210.7
65°	122.7	123.7	123.7	124.7	126.8	128.9	133.0	140.2	153.1	164.9	174.7
67.5°	104.1	104.4	104.7	105.7	106.3	108.6	110.2	113.4	116.4	127.6	139.8
70°	91.8	93.3	92.8	93.8	94.3	95.3	97.5	99.0	103.6	106.2	113.4
72.5°	80.2	81.3	81.2	81.9	83.2	83.4	85.0	86.6	89.6	91.8	95.6
75°	64.9	64.4	64.9	65.9	66.4	67.1	67.1	69.1	70.6	72.7	75.2
77.5°	50.1	50.6	50.5	50.6	50.7	51.6	51.5	52.5	54.0	55.0	56.2
80°	40.2	40.7	40.2	40.7	41.2	41.7	41.2	41.7	43.3	44.3	44.3
82.5°	31.1	31.2	31.5	31.6	31.7	31.8	32.6	32.7	33.8	33.6	34.0
85°	18.6	18.1	18.1	18.1	18.6	19.1	18.6	18.6	19.1	19.1	19.1
87.5°	11.8	12.2	12.2	12.2	12.2	12.0	11.7	12.5	12.2	12.8	12.2
90°	26.1	26.1	26.1	26.1	26.1	25.2	23.7	25.2	26.1	26.9	26.1
92.5°	43.7	45.0	44.3	46.9	47.6	52.4	59.1	68.9	86.6	102.6	101.2
95°	90.0	89.2	91.6	97.9	108.2	125.5	158.6	206.8	270.7	309.4	274.0
97.5°	177.1	183.8	195.3	214.7	252.5	309.4	394.9	482.6	554.2	528.3	397.9
100°	282.6	296.8	319.7	353.7	419.2	514.7	622.9	720.7	737.3	623.6	429.4
102.5°	497.4	516.5	545.1	603.1	674.3	775.5	854.6	876.8	805.5	626.8	417.5
105°	889.7	900.7	934.6	983.6	1032.6	1058.6	1048.3	959.2	795.0	584.9	393.9
107.5°	1136.4	1151.1	1157.9	1160.6	1154.5	1116.2	1034.1	899.8	725.6	540.1	382.2
110°	1210.9	1211.7	1204.7	1189.6	1155.7	1091.0	990.0	848.6	682.1	518.7	379.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1209.7	1205.5	1192.0	1166.9	1119.7	1045.5	937.5	801.9	651.8	504.7	380.3
115°	1170.7	1163.6	1143.1	1106.7	1050.7	969.4	866.0	744.4	614.2	489.5	383.6
117.5°	1101.1	1095.1	1073.5	1035.1	978.0	901.7	807.9	701.1	590.5	482.0	389.3
120°	1056.2	1048.3	1025.4	988.4	933.1	861.2	777.6	679.6	577.8	477.6	393.1
122.5°	1009.5	1002.9	982.5	946.0	896.5	831.5	752.3	662.7	567.1	475.0	397.6
125°	949.7	943.3	923.6	893.6	847.8	788.6	719.1	637.8	551.8	470.5	404.1
127.5°	897.3	892.2	875.1	847.1	807.1	752.5	686.9	613.4	537.6	467.8	411.0
130°	867.6	861.2	845.5	818.6	779.9	727.8	665.5	597.5	528.2	466.6	416.1
132.5°	836.6	830.9	816.4	789.6	751.5	702.6	645.3	582.4	520.6	466.0	421.1
135°	787.1	783.9	769.7	743.7	709.6	665.5	613.4	561.3	510.0	464.9	427.1
137.5°	738.4	733.7	721.2	698.8	667.8	629.3	587.9	544.4	502.5	464.8	432.4
140°	705.0	700.2	688.3	667.8	642.6	607.8	571.6	533.6	498.2	464.1	434.9
142.5°	671.5	670.6	659.9	641.4	617.3	588.2	557.0	524.8	493.7	464.1	436.9
145°	628.3	626.0	618.1	604.7	585.7	562.9	538.4	512.3	487.9	462.6	438.9
147.5°	592.2	590.8	585.4	574.7	559.1	542.3	523.2	502.7	481.9	459.8	439.6
150°	570.8	570.0	565.2	555.7	543.9	529.7	513.1	495.7	476.8	457.9	438.9
152.5°	552.4	552.3	548.8	540.6	531.3	519.0	504.9	488.8	472.4	454.7	437.7
155°	528.2	529.7	526.5	521.0	512.3	503.6	491.8	479.2	464.1	449.2	435.8
157.5°	507.5	507.5	506.0	501.4	495.2	488.5	478.6	468.0	456.5	443.5	432.1
160°	494.1	494.1	493.4	489.5	483.9	478.4	469.7	461.0	450.8	439.7	430.2
162.5°	481.5	482.2	481.4	478.7	473.2	468.9	461.5	454.0	445.7	436.6	428.4
165°	463.4	464.1	464.1	461.0	457.9	454.7	449.2	443.6	437.4	430.2	424.7
167.5°	446.7	447.6	447.8	446.1	444.6	441.7	438.0	433.7	429.1	424.7	421.1
170°	436.6	438.1	438.9	436.6	435.8	434.1	431.0	428.7	424.7	421.5	419.2
172.5°	428.4	429.3	430.1	429.0	428.2	427.3	424.7	422.9	420.3	417.8	416.7
175°	417.6	419.2	420.0	419.2	419.2	418.4	417.6	416.8	414.4	413.6	412.8
177.5°	411.1	412.4	413.0	413.0	413.0	413.0	412.4	412.4	411.1	410.5	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1519.0	1515.7	1512.9	1505.4	1501.8	1493.5	1492.3	1491.9	1481.1	1470.8	1467.9
5°	1571.2	1563.0	1550.5	1536.1	1521.2	1505.7	1495.4	1487.2	1466.5	1446.9	1435.6
7.5°	1623.8	1606.1	1584.7	1557.4	1534.6	1509.0	1490.1	1473.1	1443.8	1415.7	1396.8
10°	1662.9	1634.1	1605.8	1568.1	1538.7	1509.8	1483.1	1459.9	1426.8	1389.8	1363.4
12.5°	1687.3	1655.6	1616.5	1579.6	1541.7	1504.9	1469.1	1439.3	1400.5	1362.1	1330.9
15°	1720.2	1686.2	1638.7	1586.2	1537.2	1489.2	1448.0	1410.9	1360.4	1314.5	1276.4
17.5°	1747.1	1700.3	1649.3	1588.5	1531.9	1470.9	1417.7	1370.4	1314.1	1258.8	1213.9
20°	1755.8	1709.4	1650.6	1589.7	1522.8	1451.1	1393.9	1342.3	1282.0	1221.7	1170.1
22.5°	1750.4	1714.3	1648.9	1576.2	1507.5	1432.5	1367.9	1308.1	1241.2	1179.6	1119.8
25°	1714.0	1701.6	1639.8	1560.3	1482.1	1394.9	1320.2	1254.7	1178.4	1112.5	1047.4
27.5°	1629.1	1655.9	1617.5	1533.0	1445.8	1352.4	1268.4	1193.9	1114.7	1040.5	975.7
30°	1547.5	1608.8	1592.4	1514.0	1416.5	1324.8	1230.5	1152.7	1068.1	991.8	927.9
32.5°	1435.7	1537.1	1553.2	1487.6	1386.8	1286.1	1187.2	1109.7	1021.5	941.1	878.8
35°	1257.8	1409.4	1478.9	1437.1	1336.2	1227.4	1125.3	1035.1	946.4	867.1	805.2
37.5°	1045.5	1251.9	1367.9	1370.9	1278.1	1165.0	1053.9	964.3	873.5	795.6	728.7
40°	907.8	1131.5	1282.5	1316.1	1237.7	1115.5	1003.1	911.9	823.2	746.9	670.1
42.5°	784.1	1006.9	1192.7	1250.9	1188.6	1067.2	954.5	859.1	773.0	700.7	622.3
45°	634.1	828.9	1033.6	1137.7	1103.2	990.8	871.7	780.9	700.0	637.6	562.4
47.5°	534.8	672.2	870.2	1011.1	1010.5	907.9	790.7	703.9	628.8	570.4	509.4
50°	478.4	597.9	765.5	925.3	938.7	852.6	741.2	655.2	585.1	523.7	474.7
52.5°	427.7	526.2	676.8	830.0	868.2	793.7	685.6	606.1	538.1	481.7	439.7
55°	361.3	437.7	552.1	695.4	753.2	700.5	604.7	530.5	475.2	427.9	391.7
57.5°	305.7	362.9	454.7	570.2	637.3	604.3	525.1	464.8	417.7	374.8	346.3
60°	270.6	317.5	395.4	491.8	566.0	542.8	475.2	419.1	378.9	341.7	315.0
62.5°	237.6	277.9	344.7	422.9	491.0	481.4	426.2	379.1	343.9	310.0	287.3
65°	191.3	220.7	272.7	334.1	388.7	393.3	353.7	321.6	290.2	263.4	243.3
67.5°	152.3	171.5	208.1	259.8	300.7	315.4	291.1	266.7	241.8	221.1	203.6
70°	128.4	143.8	170.7	212.4	250.0	265.5	251.6	232.5	210.9	193.8	178.8
72.5°	104.0	119.1	138.9	169.5	201.8	218.4	213.6	200.0	182.4	168.2	154.1
75°	78.4	83.0	96.4	117.0	142.3	156.7	160.4	153.1	139.2	128.4	120.1
77.5°	58.0	60.7	67.2	78.0	94.4	107.3	112.6	111.8	102.2	95.8	88.2
80°	46.4	48.0	51.0	55.6	68.1	80.9	84.5	84.5	77.9	75.2	67.6
82.5°	35.2	36.4	38.3	40.8	46.6	57.9	61.9	62.7	58.5	55.0	49.0
85°	20.1	19.6	20.6	22.1	23.2	26.3	32.5	33.5	32.5	28.4	26.8
87.5°	11.3	10.6	9.8	8.9	9.0	9.1	10.5	12.1	10.9	10.3	9.8
90°	21.3	15.8	11.8	9.5	7.9	6.4	3.1	0.8	3.1	6.4	7.9
92.5°	78.8	53.7	35.9	28.4	23.0	19.6	13.9	9.6	13.9	19.6	23.0
95°	182.4	113.7	77.4	58.4	45.7	38.7	30.8	27.7	30.8	38.7	45.7
97.5°	245.7	150.0	104.3	82.9	68.4	57.7	49.3	45.0	49.3	57.7	68.4
100°	258.9	162.6	120.8	98.7	82.9	70.3	63.1	60.8	63.1	70.3	82.9
102.5°	259.5	174.0	135.3	113.2	96.7	84.1	77.1	75.3	77.1	84.1	96.7
105°	263.7	193.4	156.3	134.2	116.8	105.0	99.5	96.3	99.5	105.0	116.8
107.5°	274.6	213.3	177.3	155.0	137.8	126.9	121.6	119.1	121.6	126.9	137.8
110°	283.4	226.5	191.9	169.0	152.4	142.1	137.3	134.2	137.3	142.1	152.4



TEST NUMBER: P331689-840

CATALOG NUMBER: SA2XXRDIP-C675D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	292.9	239.2	205.7	182.2	166.2	156.6	151.3	148.0	151.3	156.6	166.2
115°	307.1	258.9	225.0	203.7	187.8	178.4	173.7	169.8	173.7	178.4	187.8
117.5°	322.2	277.1	245.7	223.6	208.4	200.1	195.3	192.2	195.3	200.1	208.4
120°	332.3	289.7	258.9	236.8	221.1	213.9	209.2	206.0	209.2	213.9	221.1
122.5°	341.2	301.7	272.9	250.0	234.3	226.5	221.9	219.3	221.9	226.5	234.3
125°	355.3	319.7	291.2	269.2	253.4	243.9	239.2	236.8	239.2	243.9	253.4
127.5°	368.3	336.5	308.8	286.1	270.9	260.5	253.9	250.7	253.9	260.5	270.9
130°	376.6	346.6	318.9	296.8	281.0	269.9	262.1	258.9	262.1	269.9	281.0
132.5°	384.8	355.4	329.0	306.9	290.5	278.8	270.3	266.5	270.3	278.8	290.5
135°	395.5	367.9	342.6	320.5	302.4	290.5	281.0	277.9	281.0	290.5	302.4
137.5°	403.7	378.0	353.0	332.5	314.5	301.8	292.4	288.6	292.4	301.8	314.5
140°	408.1	383.6	360.0	339.4	322.0	309.4	299.9	296.8	299.9	309.4	322.0
142.5°	411.9	388.1	365.1	345.8	329.0	316.4	307.6	305.0	307.6	316.4	329.0
145°	416.8	394.8	373.3	356.0	340.2	328.4	320.5	317.3	320.5	328.4	340.2
147.5°	419.5	400.1	380.0	364.6	351.4	340.5	333.0	330.6	333.0	340.5	351.4
150°	420.7	402.6	384.5	370.2	358.4	348.1	341.8	339.4	341.8	348.1	358.4
152.5°	421.4	405.2	388.9	375.9	364.7	355.7	349.4	348.3	349.4	355.7	364.7
155°	422.3	408.9	395.5	383.6	375.0	366.3	361.5	360.7	361.5	366.3	375.0
157.5°	422.3	411.6	400.2	390.3	383.3	375.8	371.9	371.2	371.9	375.8	383.3
160°	422.3	412.8	403.3	394.8	388.4	382.0	378.9	378.1	378.9	382.0	388.4
162.5°	421.7	413.5	405.3	398.5	392.8	387.8	384.6	385.1	384.6	387.8	392.8
165°	420.0	414.4	407.4	402.6	398.7	393.9	392.3	393.1	392.3	393.9	398.7
167.5°	418.9	414.2	409.1	406.1	403.2	400.2	398.8	399.8	398.8	400.2	403.2
170°	417.6	413.6	409.7	407.4	405.8	403.3	402.6	404.1	402.6	403.3	405.8
172.5°	415.7	413.0	410.3	408.6	407.7	405.3	405.8	406.7	405.8	405.3	407.7
175°	413.6	412.0	410.5	409.7	409.7	408.1	408.9	409.7	408.9	408.1	409.7
177.5°	412.4	411.1	410.5	410.5	410.5	409.2	409.9	411.1	409.9	409.2	410.5
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331689-840

CATALOG NUMBER: SA2XXRDIP-C675D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1462.6	1459.7	1454.3	1446.0	1441.1	1432.4	1426.6	1430.0	1430.8	1430.0	1429.2
5°	1423.3	1412.4	1397.5	1383.0	1369.7	1355.2	1347.0	1343.3	1336.2	1332.0	1330.0
7.5°	1375.7	1357.1	1336.0	1310.8	1289.4	1267.1	1255.7	1249.9	1235.2	1227.2	1220.1
10°	1340.3	1310.9	1289.8	1256.8	1236.7	1207.3	1187.2	1187.7	1167.6	1156.2	1148.0
12.5°	1301.1	1268.8	1233.7	1204.0	1176.0	1152.5	1128.2	1118.4	1097.0	1086.1	1063.9
15°	1236.2	1198.5	1161.4	1121.2	1092.9	1056.2	1021.2	978.4	943.8	913.9	905.7
17.5°	1165.2	1118.6	1081.4	1034.2	985.6	924.0	883.4	858.6	837.8	822.0	810.2
20°	1116.5	1069.1	1029.5	958.3	892.8	851.1	821.2	802.1	780.4	763.5	754.2
22.5°	1065.4	1015.9	961.8	882.4	831.4	797.9	771.2	749.3	734.7	721.3	713.0
25°	992.8	938.7	849.5	794.9	753.7	718.6	700.0	686.6	671.2	653.1	644.9
27.5°	916.1	830.0	766.0	725.4	686.0	663.2	646.5	626.5	612.7	604.6	596.0
30°	858.8	772.7	722.8	678.4	650.6	625.3	605.7	594.4	581.0	567.0	561.4
32.5°	794.9	726.1	678.2	641.3	613.0	591.5	576.0	557.6	548.0	539.4	527.6
35°	715.5	663.5	619.7	589.8	562.9	545.4	527.4	516.5	499.0	491.8	487.2
37.5°	648.2	603.1	570.5	538.9	517.7	498.3	487.3	470.0	462.4	452.4	442.6
40°	610.4	566.0	534.5	508.8	485.0	470.6	456.8	442.8	431.4	426.9	415.0
42.5°	571.6	535.5	504.0	475.7	459.9	444.6	427.1	416.9	405.1	397.6	390.2
45°	518.1	486.1	459.3	436.1	418.6	402.6	391.2	374.3	367.6	352.5	346.4
47.5°	471.1	441.3	415.8	393.7	376.6	366.2	349.6	336.3	325.6	316.4	308.5
50°	437.7	412.9	388.2	368.6	353.1	338.2	321.1	314.5	297.9	293.3	288.7
52.5°	407.2	383.6	360.9	341.7	326.3	311.7	296.8	288.0	276.9	272.3	268.9
55°	364.5	341.7	320.1	303.1	287.6	272.7	263.4	252.6	247.4	243.8	239.7
57.5°	321.5	301.1	284.6	267.3	251.8	239.9	229.1	222.7	217.3	212.6	207.6
60°	294.4	274.8	259.8	243.8	227.8	218.0	209.8	202.1	195.9	188.6	186.6
62.5°	265.5	248.3	234.7	219.0	205.2	196.2	188.3	181.1	173.6	163.1	160.2
65°	225.8	212.4	197.9	185.1	172.7	163.9	152.6	144.3	141.3	140.2	139.7
67.5°	190.0	177.2	164.8	151.7	140.4	132.3	126.5	125.2	123.1	122.5	121.1
70°	166.0	154.1	141.8	129.4	118.6	117.0	114.9	112.9	110.3	109.3	108.3
72.5°	144.5	132.3	119.9	110.0	105.3	103.4	101.4	99.3	97.6	96.5	95.8
75°	110.8	99.5	91.3	87.7	85.0	83.5	80.4	78.9	77.9	76.2	75.7
77.5°	79.8	73.4	69.6	67.4	64.6	63.0	61.2	59.7	58.6	58.3	57.5
80°	60.8	57.8	55.1	52.1	51.0	49.0	48.5	47.0	47.5	45.8	45.8
82.5°	47.3	43.3	41.1	39.7	38.7	37.1	36.5	35.7	35.9	34.7	34.7
85°	24.2	23.2	22.1	21.1	21.1	19.6	20.1	19.6	19.6	18.6	18.1
87.5°	9.7	9.8	9.8	10.9	11.8	11.5	11.4	10.8	10.5	10.8	10.6
90°	9.5	11.8	15.8	21.3	26.1	26.9	26.1	25.2	23.7	25.2	26.1
92.5°	28.4	35.9	53.7	78.8	101.2	102.6	86.6	68.9	59.1	52.4	47.6
95°	58.4	77.4	113.7	182.4	274.0	309.4	270.7	206.8	158.6	125.5	108.2
97.5°	82.9	104.3	150.0	245.7	397.9	528.3	554.2	482.6	394.9	309.4	252.5
100°	98.7	120.8	162.6	258.9	429.4	623.6	737.3	720.7	622.9	514.7	419.2
102.5°	113.2	135.3	174.0	259.5	417.5	626.8	805.5	876.8	854.6	775.5	674.3
105°	134.2	156.3	193.4	263.7	393.9	584.9	795.0	959.2	1048.3	1058.6	1032.6
107.5°	155.0	177.3	213.3	274.6	382.2	540.1	725.6	899.8	1034.1	1116.2	1154.5
110°	169.0	191.9	226.5	283.4	379.7	518.7	682.1	848.6	990.0	1091.0	1155.7



TEST NUMBER: P331689-840

CATALOG NUMBER: SA2XXRDIP-C675D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	182.2	205.7	239.2	292.9	380.3	504.7	651.8	801.9	937.5	1045.5	1119.7
115°	203.7	225.0	258.9	307.1	383.6	489.5	614.2	744.4	866.0	969.4	1050.7
117.5°	223.6	245.7	277.1	322.2	389.3	482.0	590.5	701.1	807.9	901.7	978.0
120°	236.8	258.9	289.7	332.3	393.1	477.6	577.8	679.6	777.6	861.2	933.1
122.5°	250.0	272.9	301.7	341.2	397.6	475.0	567.1	662.7	752.3	831.5	896.5
125°	269.2	291.2	319.7	355.3	404.1	470.5	551.8	637.8	719.1	788.6	847.8
127.5°	286.1	308.8	336.5	368.3	411.0	467.8	537.6	613.4	686.9	752.5	807.1
130°	296.8	318.9	346.6	376.6	416.1	466.6	528.2	597.5	665.5	727.8	779.9
132.5°	306.9	329.0	355.4	384.8	421.1	466.0	520.6	582.4	645.3	702.6	751.5
135°	320.5	342.6	367.9	395.5	427.1	464.9	510.0	561.3	613.4	665.5	709.6
137.5°	332.5	353.0	378.0	403.7	432.4	464.8	502.5	544.4	587.9	629.3	667.8
140°	339.4	360.0	383.6	408.1	434.9	464.1	498.2	533.6	571.6	607.8	642.6
142.5°	345.8	365.1	388.1	411.9	436.9	464.1	493.7	524.8	557.0	588.2	617.3
145°	356.0	373.3	394.8	416.8	438.9	462.6	487.9	512.3	538.4	562.9	585.7
147.5°	364.6	380.0	400.1	419.5	439.6	459.8	481.9	502.7	523.2	542.3	559.1
150°	370.2	384.5	402.6	420.7	438.9	457.9	476.8	495.7	513.1	529.7	543.9
152.5°	375.9	388.9	405.2	421.4	437.7	454.7	472.4	488.8	504.9	519.0	531.3
155°	383.6	395.5	408.9	422.3	435.8	449.2	464.1	479.2	491.8	503.6	512.3
157.5°	390.3	400.2	411.6	422.3	432.1	443.5	456.5	468.0	478.6	488.5	495.2
160°	394.8	403.3	412.8	422.3	430.2	439.7	450.8	461.0	469.7	478.4	483.9
162.5°	398.5	405.3	413.5	421.7	428.4	436.6	445.7	454.0	461.5	468.9	473.2
165°	402.6	407.4	414.4	420.0	424.7	430.2	437.4	443.6	449.2	454.7	457.9
167.5°	406.1	409.1	414.2	418.9	421.1	424.7	429.1	433.7	438.0	441.7	444.6
170°	407.4	409.7	413.6	417.6	419.2	421.5	424.7	428.7	431.0	434.1	435.8
172.5°	408.6	410.3	413.0	415.7	416.7	417.8	420.3	422.9	424.7	427.3	428.2
175°	409.7	410.5	412.0	413.6	412.8	413.6	414.4	416.8	417.6	418.4	419.2
177.5°	410.5	410.5	411.1	412.4	411.1	410.5	411.1	412.4	412.4	413.0	413.0
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331689-840

CATALOG NUMBER: SA2XXRDIP-C675D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1424.6	1425.4	1424.2	1425.0	1424.2	1425.4	1424.6	1429.2	1430.0	1430.8	1430.0
5°	1327.4	1321.2	1320.2	1318.6	1320.2	1321.2	1327.4	1330.0	1332.0	1336.2	1343.3
7.5°	1211.3	1210.3	1207.8	1204.2	1207.8	1210.3	1211.3	1220.1	1227.2	1235.2	1249.9
10°	1136.6	1134.1	1133.6	1129.9	1133.6	1134.1	1136.6	1148.0	1156.2	1167.6	1187.7
12.5°	1049.2	1032.6	1030.9	1021.9	1030.9	1032.6	1049.2	1063.9	1086.1	1097.0	1118.4
15°	893.3	890.3	879.9	873.2	879.9	890.3	893.3	905.7	913.9	943.8	978.4
17.5°	804.3	794.2	790.9	789.5	790.9	794.2	804.3	810.2	822.0	837.8	858.6
20°	746.9	737.7	736.1	735.1	736.1	737.7	746.9	754.2	763.5	780.4	802.1
22.5°	707.3	697.6	693.7	690.5	693.7	697.6	707.3	713.0	721.3	734.7	749.3
25°	639.7	636.1	634.1	633.0	634.1	636.1	639.7	644.9	653.1	671.2	686.6
27.5°	586.8	578.9	577.3	574.7	577.3	578.9	586.8	596.0	604.6	612.7	626.5
30°	556.7	554.1	550.6	547.4	550.6	554.1	556.7	561.4	567.0	581.0	594.4
32.5°	521.3	519.1	515.9	514.4	515.9	519.1	521.3	527.6	539.4	548.0	557.6
35°	482.0	474.7	471.7	467.1	471.7	474.7	482.0	487.2	491.8	499.0	516.5
37.5°	440.4	436.7	432.3	433.8	432.3	436.7	440.4	442.6	452.4	462.4	470.0
40°	408.3	405.7	404.7	404.1	404.7	405.7	408.3	415.0	426.9	431.4	442.8
42.5°	382.7	375.6	372.9	372.8	372.9	375.6	382.7	390.2	397.6	405.1	416.9
45°	343.9	337.1	332.4	333.1	332.4	337.1	343.9	346.4	352.5	367.6	374.3
47.5°	304.1	303.9	300.9	301.8	300.9	303.9	304.1	308.5	316.4	325.6	336.3
50°	285.1	282.0	279.9	280.4	279.9	282.0	285.1	288.7	293.3	297.9	314.5
52.5°	266.9	264.3	262.6	264.8	262.6	264.3	266.9	268.9	272.3	276.9	288.0
55°	237.1	234.0	233.5	233.0	233.5	234.0	237.1	239.7	243.8	247.4	252.6
57.5°	203.8	201.8	198.6	197.3	198.6	201.8	203.8	207.6	212.6	217.3	222.7
60°	179.9	175.8	170.7	170.1	170.7	175.8	179.9	186.6	188.6	195.9	202.1
62.5°	158.0	157.2	156.2	156.1	156.2	157.2	158.0	160.2	163.1	173.6	181.1
65°	138.7	138.1	138.7	139.2	138.7	138.1	138.7	139.7	140.2	141.3	144.3
67.5°	120.9	119.9	119.0	119.4	119.0	119.9	120.9	121.1	122.5	123.1	125.2
70°	107.2	106.7	106.2	106.2	106.2	106.7	107.2	108.3	109.3	110.3	112.9
72.5°	94.0	93.9	93.4	93.0	93.4	93.9	94.0	95.8	96.5	97.6	99.3
75°	75.2	74.2	74.2	74.2	74.2	74.2	75.2	75.7	76.2	77.9	78.9
77.5°	57.4	56.9	56.2	55.8	56.2	56.9	57.4	57.5	58.3	58.6	59.7
80°	45.3	44.8	44.3	44.3	44.3	44.8	45.3	45.8	45.8	47.5	47.0
82.5°	34.6	34.1	34.0	33.6	34.0	34.1	34.6	34.7	34.7	35.9	35.7
85°	18.6	19.1	18.6	19.6	18.6	19.1	18.6	18.1	18.6	19.6	19.6
87.5°	10.6	10.2	10.6	10.2	10.6	10.2	10.6	10.6	10.8	10.5	10.8
90°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	25.2	23.7	25.2
92.5°	46.9	44.3	45.0	43.7	45.0	44.3	46.9	47.6	52.4	59.1	68.9
95°	97.9	91.6	89.2	90.0	89.2	91.6	97.9	108.2	125.5	158.6	206.8
97.5°	214.7	195.3	183.8	177.1	183.8	195.3	214.7	252.5	309.4	394.9	482.6
100°	353.7	319.7	296.8	282.6	296.8	319.7	353.7	419.2	514.7	622.9	720.7
102.5°	603.1	545.1	516.5	497.4	516.5	545.1	603.1	674.3	775.5	854.6	876.8
105°	983.6	934.6	900.7	889.7	900.7	934.6	983.6	1032.6	1058.6	1048.3	959.2
107.5°	1160.6	1157.9	1151.1	1136.4	1151.1	1157.9	1160.6	1154.5	1116.2	1034.1	899.8
110°	1189.6	1204.7	1211.7	1210.9	1211.7	1204.7	1189.6	1155.7	1091.0	990.0	848.6



TEST NUMBER: P331689-840

CATALOG NUMBER: SA2XXRDIP-C675D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1166.9	1192.0	1205.5	1209.7	1205.5	1192.0	1166.9	1119.7	1045.5	937.5	801.9
115°	1106.7	1143.1	1163.6	1170.7	1163.6	1143.1	1106.7	1050.7	969.4	866.0	744.4
117.5°	1035.1	1073.5	1095.1	1101.1	1095.1	1073.5	1035.1	978.0	901.7	807.9	701.1
120°	988.4	1025.4	1048.3	1056.2	1048.3	1025.4	988.4	933.1	861.2	777.6	679.6
122.5°	946.0	982.5	1002.9	1009.5	1002.9	982.5	946.0	896.5	831.5	752.3	662.7
125°	893.6	923.6	943.3	949.7	943.3	923.6	893.6	847.8	788.6	719.1	637.8
127.5°	847.1	875.1	892.2	897.3	892.2	875.1	847.1	807.1	752.5	686.9	613.4
130°	818.6	845.5	861.2	867.6	861.2	845.5	818.6	779.9	727.8	665.5	597.5
132.5°	789.6	816.4	830.9	836.6	830.9	816.4	789.6	751.5	702.6	645.3	582.4
135°	743.7	769.7	783.9	787.1	783.9	769.7	743.7	709.6	665.5	613.4	561.3
137.5°	698.8	721.2	733.7	738.4	733.7	721.2	698.8	667.8	629.3	587.9	544.4
140°	667.8	688.3	700.2	705.0	700.2	688.3	667.8	642.6	607.8	571.6	533.6
142.5°	641.4	659.9	670.6	671.5	670.6	659.9	641.4	617.3	588.2	557.0	524.8
145°	604.7	618.1	626.0	628.3	626.0	618.1	604.7	585.7	562.9	538.4	512.3
147.5°	574.7	585.4	590.8	592.2	590.8	585.4	574.7	559.1	542.3	523.2	502.7
150°	555.7	565.2	570.0	570.8	570.0	565.2	555.7	543.9	529.7	513.1	495.7
152.5°	540.6	548.8	552.3	552.4	552.3	548.8	540.6	531.3	519.0	504.9	488.8
155°	521.0	526.5	529.7	528.2	529.7	526.5	521.0	512.3	503.6	491.8	479.2
157.5°	501.4	506.0	507.5	507.5	507.5	506.0	501.4	495.2	488.5	478.6	468.0
160°	489.5	493.4	494.1	494.1	494.1	493.4	489.5	483.9	478.4	469.7	461.0
162.5°	478.7	481.4	482.2	481.5	482.2	481.4	478.7	473.2	468.9	461.5	454.0
165°	461.0	464.1	464.1	463.4	464.1	464.1	461.0	457.9	454.7	449.2	443.6
167.5°	446.1	447.8	447.6	446.7	447.6	447.8	446.1	444.6	441.7	438.0	433.7
170°	436.6	438.9	438.1	436.6	438.1	438.9	436.6	435.8	434.1	431.0	428.7
172.5°	429.0	430.1	429.3	428.4	429.3	430.1	429.0	428.2	427.3	424.7	422.9
175°	419.2	420.0	419.2	417.6	419.2	420.0	419.2	419.2	418.4	417.6	416.8
177.5°	413.0	413.0	412.4	411.1	412.4	413.0	413.0	413.0	413.0	412.4	412.4
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331689-840

CATALOG NUMBER: SA2XXRDIP-C675D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1426.6	1432.4	1441.1	1446.0	1454.3	1459.7	1462.6	1467.9	1470.8	1481.1	1491.9
5°	1347.0	1355.2	1369.7	1383.0	1397.5	1412.4	1423.3	1435.6	1446.9	1466.5	1487.2
7.5°	1255.7	1267.1	1289.4	1310.8	1336.0	1357.1	1375.7	1396.8	1415.7	1443.8	1473.1
10°	1187.2	1207.3	1236.7	1256.8	1289.8	1310.9	1340.3	1363.4	1389.8	1426.8	1459.9
12.5°	1128.2	1152.5	1176.0	1204.0	1233.7	1268.8	1301.1	1330.9	1362.1	1400.5	1439.3
15°	1021.2	1056.2	1092.9	1121.2	1161.4	1198.5	1236.2	1276.4	1314.5	1360.4	1410.9
17.5°	883.4	924.0	985.6	1034.2	1081.4	1118.6	1165.2	1213.9	1258.8	1314.1	1370.4
20°	821.2	851.1	892.8	958.3	1029.5	1069.1	1116.5	1170.1	1221.7	1282.0	1342.3
22.5°	771.2	797.9	831.4	882.4	961.8	1015.9	1065.4	1119.8	1179.6	1241.2	1308.1
25°	700.0	718.6	753.7	794.9	849.5	938.7	992.8	1047.4	1112.5	1178.4	1254.7
27.5°	646.5	663.2	686.0	725.4	766.0	830.0	916.1	975.7	1040.5	1114.7	1193.9
30°	605.7	625.3	650.6	678.4	722.8	772.7	858.8	927.9	991.8	1068.1	1152.7
32.5°	576.0	591.5	613.0	641.3	678.2	726.1	794.9	878.8	941.1	1021.5	1109.7
35°	527.4	545.4	562.9	589.8	619.7	663.5	715.5	805.2	867.1	946.4	1035.1
37.5°	487.3	498.3	517.7	538.9	570.5	603.1	648.2	728.7	795.6	873.5	964.3
40°	456.8	470.6	485.0	508.8	534.5	566.0	610.4	670.1	746.9	823.2	911.9
42.5°	427.1	444.6	459.9	475.7	504.0	535.5	571.6	622.3	700.7	773.0	859.1
45°	391.2	402.6	418.6	436.1	459.3	486.1	518.1	562.4	637.6	700.0	780.9
47.5°	349.6	366.2	376.6	393.7	415.8	441.3	471.1	509.4	570.4	628.8	703.9
50°	321.1	338.2	353.1	368.6	388.2	412.9	437.7	474.7	523.7	585.1	655.2
52.5°	296.8	311.7	326.3	341.7	360.9	383.6	407.2	439.7	481.7	538.1	606.1
55°	263.4	272.7	287.6	303.1	320.1	341.7	364.5	391.7	427.9	475.2	530.5
57.5°	229.1	239.9	251.8	267.3	284.6	301.1	321.5	346.3	374.8	417.7	464.8
60°	209.8	218.0	227.8	243.8	259.8	274.8	294.4	315.0	341.7	378.9	419.1
62.5°	188.3	196.2	205.2	219.0	234.7	248.3	265.5	287.3	310.0	343.9	379.1
65°	152.6	163.9	172.7	185.1	197.9	212.4	225.8	243.3	263.4	290.2	321.6
67.5°	126.5	132.3	140.4	151.7	164.8	177.2	190.0	203.6	221.1	241.8	266.7
70°	114.9	117.0	118.6	129.4	141.8	154.1	166.0	178.8	193.8	210.9	232.5
72.5°	101.4	103.4	105.3	110.0	119.9	132.3	144.5	154.1	168.2	182.4	200.0
75°	80.4	83.5	85.0	87.7	91.3	99.5	110.8	120.1	128.4	139.2	153.1
77.5°	61.2	63.0	64.6	67.4	69.6	73.4	79.8	88.2	95.8	102.2	111.8
80°	48.5	49.0	51.0	52.1	55.1	57.8	60.8	67.6	75.2	77.9	84.5
82.5°	36.5	37.1	38.7	39.7	41.1	43.3	47.3	49.0	55.0	58.5	62.7
85°	20.1	19.6	21.1	21.1	22.1	23.2	24.2	26.8	28.4	32.5	33.5
87.5°	11.4	11.5	11.8	10.9	9.8	9.8	9.7	9.8	10.3	10.9	12.1
90°	26.1	26.9	26.1	21.3	15.8	11.8	9.5	7.9	6.4	3.1	0.8
92.5°	86.6	102.6	101.2	78.8	53.7	35.9	28.4	23.0	19.6	13.9	9.6
95°	270.7	309.4	274.0	182.4	113.7	77.4	58.4	45.7	38.7	30.8	27.7
97.5°	554.2	528.3	397.9	245.7	150.0	104.3	82.9	68.4	57.7	49.3	45.0
100°	737.3	623.6	429.4	258.9	162.6	120.8	98.7	82.9	70.3	63.1	60.8
102.5°	805.5	626.8	417.5	259.5	174.0	135.3	113.2	96.7	84.1	77.1	75.3
105°	795.0	584.9	393.9	263.7	193.4	156.3	134.2	116.8	105.0	99.5	96.3
107.5°	725.6	540.1	382.2	274.6	213.3	177.3	155.0	137.8	126.9	121.6	119.1
110°	682.1	518.7	379.7	283.4	226.5	191.9	169.0	152.4	142.1	137.3	134.2



TEST NUMBER: P331689-840
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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	651.8	504.7	380.3	292.9	239.2	205.7	182.2	166.2	156.6	151.3	148.0
115°	614.2	489.5	383.6	307.1	258.9	225.0	203.7	187.8	178.4	173.7	169.8
117.5°	590.5	482.0	389.3	322.2	277.1	245.7	223.6	208.4	200.1	195.3	192.2
120°	577.8	477.6	393.1	332.3	289.7	258.9	236.8	221.1	213.9	209.2	206.0
122.5°	567.1	475.0	397.6	341.2	301.7	272.9	250.0	234.3	226.5	221.9	219.3
125°	551.8	470.5	404.1	355.3	319.7	291.2	269.2	253.4	243.9	239.2	236.8
127.5°	537.6	467.8	411.0	368.3	336.5	308.8	286.1	270.9	260.5	253.9	250.7
130°	528.2	466.6	416.1	376.6	346.6	318.9	296.8	281.0	269.9	262.1	258.9
132.5°	520.6	466.0	421.1	384.8	355.4	329.0	306.9	290.5	278.8	270.3	266.5
135°	510.0	464.9	427.1	395.5	367.9	342.6	320.5	302.4	290.5	281.0	277.9
137.5°	502.5	464.8	432.4	403.7	378.0	353.0	332.5	314.5	301.8	292.4	288.6
140°	498.2	464.1	434.9	408.1	383.6	360.0	339.4	322.0	309.4	299.9	296.8
142.5°	493.7	464.1	436.9	411.9	388.1	365.1	345.8	329.0	316.4	307.6	305.0
145°	487.9	462.6	438.9	416.8	394.8	373.3	356.0	340.2	328.4	320.5	317.3
147.5°	481.9	459.8	439.6	419.5	400.1	380.0	364.6	351.4	340.5	333.0	330.6
150°	476.8	457.9	438.9	420.7	402.6	384.5	370.2	358.4	348.1	341.8	339.4
152.5°	472.4	454.7	437.7	421.4	405.2	388.9	375.9	364.7	355.7	349.4	348.3
155°	464.1	449.2	435.8	422.3	408.9	395.5	383.6	375.0	366.3	361.5	360.7
157.5°	456.5	443.5	432.1	422.3	411.6	400.2	390.3	383.3	375.8	371.9	371.2
160°	450.8	439.7	430.2	422.3	412.8	403.3	394.8	388.4	382.0	378.9	378.1
162.5°	445.7	436.6	428.4	421.7	413.5	405.3	398.5	392.8	387.8	384.6	385.1
165°	437.4	430.2	424.7	420.0	414.4	407.4	402.6	398.7	393.9	392.3	393.1
167.5°	429.1	424.7	421.1	418.9	414.2	409.1	406.1	403.2	400.2	398.8	399.8
170°	424.7	421.5	419.2	417.6	413.6	409.7	407.4	405.8	403.3	402.6	404.1
172.5°	420.3	417.8	416.7	415.7	413.0	410.3	408.6	407.7	405.3	405.8	406.7
175°	414.4	413.6	412.8	413.6	412.0	410.5	409.7	409.7	408.1	408.9	409.7
177.5°	411.1	410.5	411.1	412.4	411.1	410.5	410.5	410.5	409.2	409.9	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331689-840

CATALOG NUMBER: SA2XXRDIP-C675D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1492.3	1493.5	1501.8	1505.4	1512.9	1515.7	1519.0	1518.2	1518.2	1519.8	1531.5
5°	1495.4	1505.7	1521.2	1536.1	1550.5	1563.0	1571.2	1579.4	1582.6	1597.5	1610.9
7.5°	1490.1	1509.0	1534.6	1557.4	1584.7	1606.1	1623.8	1639.8	1650.7	1672.4	1694.8
10°	1483.1	1509.8	1538.7	1568.1	1605.8	1634.1	1662.9	1685.2	1692.3	1724.8	1743.4
12.5°	1469.1	1504.9	1541.7	1579.6	1616.5	1655.6	1687.3	1709.5	1734.8	1764.0	1798.3
15°	1448.0	1489.2	1537.2	1586.2	1638.7	1686.2	1720.2	1758.9	1786.7	1818.7	1848.6
17.5°	1417.7	1470.9	1531.9	1588.5	1649.3	1700.3	1747.1	1784.2	1803.8	1822.0	1826.4
20°	1393.9	1451.1	1522.8	1589.7	1650.6	1709.4	1755.8	1786.7	1791.8	1792.3	1765.0
22.5°	1367.9	1432.5	1507.5	1576.2	1648.9	1714.3	1750.4	1763.6	1743.1	1708.2	1655.4
25°	1320.2	1394.9	1482.1	1560.3	1639.8	1701.6	1714.0	1690.8	1619.1	1543.9	1448.6
27.5°	1268.4	1352.4	1445.8	1533.0	1617.5	1655.9	1629.1	1545.5	1416.4	1304.2	1168.3
30°	1230.5	1324.8	1416.5	1514.0	1592.4	1608.8	1547.5	1424.3	1273.7	1104.7	969.2
32.5°	1187.2	1286.1	1386.8	1487.6	1553.2	1537.1	1435.7	1284.0	1107.6	941.4	813.2
35°	1125.3	1227.4	1336.2	1437.1	1478.9	1409.4	1257.8	1060.4	879.9	724.8	636.6
37.5°	1053.9	1165.0	1278.1	1370.9	1367.9	1251.9	1045.5	841.7	690.0	598.2	535.5
40°	1003.1	1115.5	1237.7	1316.1	1282.5	1131.5	907.8	715.5	604.7	531.5	485.5
42.5°	954.5	1067.2	1188.6	1250.9	1192.7	1006.9	784.1	633.4	542.0	484.8	447.7
45°	871.7	990.8	1103.2	1137.7	1033.6	828.9	634.1	524.7	463.9	421.7	395.9
47.5°	790.7	907.9	1010.5	1011.1	870.2	672.2	534.8	454.1	402.2	369.5	350.7
50°	741.2	852.6	938.7	925.3	765.5	597.9	478.4	408.8	365.5	340.2	320.6
52.5°	685.6	793.7	868.2	830.0	676.8	526.2	427.7	369.2	333.4	311.3	293.9
55°	604.7	700.5	753.2	695.4	552.1	437.7	361.3	315.5	288.7	270.1	255.2
57.5°	525.1	604.3	637.3	570.2	454.7	362.9	305.7	271.2	244.7	231.4	223.6
60°	475.2	542.8	566.0	491.8	395.4	317.5	270.6	238.6	219.0	210.4	202.6
62.5°	426.2	481.4	491.0	422.9	344.7	277.9	237.6	210.7	197.6	189.2	182.0
65°	353.7	393.3	388.7	334.1	272.7	220.7	191.3	174.7	164.9	153.1	140.2
67.5°	291.1	315.4	300.7	259.8	208.1	171.5	152.3	139.8	127.6	116.4	113.4
70°	251.6	265.5	250.0	212.4	170.7	143.8	128.4	113.4	106.2	103.6	99.0
72.5°	213.6	218.4	201.8	169.5	138.9	119.1	104.0	95.6	91.8	89.6	86.6
75°	160.4	156.7	142.3	117.0	96.4	83.0	78.4	75.2	72.7	70.6	69.1
77.5°	112.6	107.3	94.4	78.0	67.2	60.7	58.0	56.2	55.0	54.0	52.5
80°	84.5	80.9	68.1	55.6	51.0	48.0	46.4	44.3	44.3	43.3	41.7
82.5°	61.9	57.9	46.6	40.8	38.3	36.4	35.2	34.0	33.6	33.8	32.7
85°	32.5	26.3	23.2	22.1	20.6	19.6	20.1	19.1	19.1	19.1	18.6
87.5°	10.5	9.1	9.0	8.9	9.8	10.6	11.3	12.2	12.8	12.2	12.5
90°	3.1	6.4	7.9	9.5	11.8	15.8	21.3	26.1	26.9	26.1	25.2
92.5°	13.9	19.6	23.0	28.4	35.9	53.7	78.8	101.2	102.6	86.6	68.9
95°	30.8	38.7	45.7	58.4	77.4	113.7	182.4	274.0	309.4	270.7	206.8
97.5°	49.3	57.7	68.4	82.9	104.3	150.0	245.7	397.9	528.3	554.2	482.6
100°	63.1	70.3	82.9	98.7	120.8	162.6	258.9	429.4	623.6	737.3	720.7
102.5°	77.1	84.1	96.7	113.2	135.3	174.0	259.5	417.5	626.8	805.5	876.8
105°	99.5	105.0	116.8	134.2	156.3	193.4	263.7	393.9	584.9	795.0	959.2
107.5°	121.6	126.9	137.8	155.0	177.3	213.3	274.6	382.2	540.1	725.6	899.8
110°	137.3	142.1	152.4	169.0	191.9	226.5	283.4	379.7	518.7	682.1	848.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	151.3	156.6	166.2	182.2	205.7	239.2	292.9	380.3	504.7	651.8	801.9
115°	173.7	178.4	187.8	203.7	225.0	258.9	307.1	383.6	489.5	614.2	744.4
117.5°	195.3	200.1	208.4	223.6	245.7	277.1	322.2	389.3	482.0	590.5	701.1
120°	209.2	213.9	221.1	236.8	258.9	289.7	332.3	393.1	477.6	577.8	679.6
122.5°	221.9	226.5	234.3	250.0	272.9	301.7	341.2	397.6	475.0	567.1	662.7
125°	239.2	243.9	253.4	269.2	291.2	319.7	355.3	404.1	470.5	551.8	637.8
127.5°	253.9	260.5	270.9	286.1	308.8	336.5	368.3	411.0	467.8	537.6	613.4
130°	262.1	269.9	281.0	296.8	318.9	346.6	376.6	416.1	466.6	528.2	597.5
132.5°	270.3	278.8	290.5	306.9	329.0	355.4	384.8	421.1	466.0	520.6	582.4
135°	281.0	290.5	302.4	320.5	342.6	367.9	395.5	427.1	464.9	510.0	561.3
137.5°	292.4	301.8	314.5	332.5	353.0	378.0	403.7	432.4	464.8	502.5	544.4
140°	299.9	309.4	322.0	339.4	360.0	383.6	408.1	434.9	464.1	498.2	533.6
142.5°	307.6	316.4	329.0	345.8	365.1	388.1	411.9	436.9	464.1	493.7	524.8
145°	320.5	328.4	340.2	356.0	373.3	394.8	416.8	438.9	462.6	487.9	512.3
147.5°	333.0	340.5	351.4	364.6	380.0	400.1	419.5	439.6	459.8	481.9	502.7
150°	341.8	348.1	358.4	370.2	384.5	402.6	420.7	438.9	457.9	476.8	495.7
152.5°	349.4	355.7	364.7	375.9	388.9	405.2	421.4	437.7	454.7	472.4	488.8
155°	361.5	366.3	375.0	383.6	395.5	408.9	422.3	435.8	449.2	464.1	479.2
157.5°	371.9	375.8	383.3	390.3	400.2	411.6	422.3	432.1	443.5	456.5	468.0
160°	378.9	382.0	388.4	394.8	403.3	412.8	422.3	430.2	439.7	450.8	461.0
162.5°	384.6	387.8	392.8	398.5	405.3	413.5	421.7	428.4	436.6	445.7	454.0
165°	392.3	393.9	398.7	402.6	407.4	414.4	420.0	424.7	430.2	437.4	443.6
167.5°	398.8	400.2	403.2	406.1	409.1	414.2	418.9	421.1	424.7	429.1	433.7
170°	402.6	403.3	405.8	407.4	409.7	413.6	417.6	419.2	421.5	424.7	428.7
172.5°	405.8	405.3	407.7	408.6	410.3	413.0	415.7	416.7	417.8	420.3	422.9
175°	408.9	408.1	409.7	409.7	410.5	412.0	413.6	412.8	413.6	414.4	416.8
177.5°	409.9	409.2	410.5	410.5	410.5	411.1	412.4	411.1	410.5	411.1	412.4
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1535.5	1540.9	1543.4	1543.4	1546.3	1545.0	1543.8
5°	1623.8	1633.6	1635.7	1645.0	1651.6	1649.5	1650.6
7.5°	1711.5	1727.3	1742.8	1750.0	1751.1	1755.2	1756.8
10°	1765.5	1778.5	1802.7	1799.1	1817.1	1827.5	1810.4
12.5°	1817.6	1834.9	1851.7	1856.3	1866.6	1869.9	1863.2
15°	1864.5	1873.8	1874.8	1872.3	1875.3	1872.8	1863.0
17.5°	1820.6	1805.5	1775.0	1760.6	1749.2	1732.2	1725.5
20°	1748.0	1703.6	1652.1	1631.5	1607.3	1559.8	1571.2
22.5°	1591.3	1540.8	1489.2	1429.1	1400.3	1355.3	1352.6
25°	1347.5	1260.4	1164.5	1097.5	1058.3	1013.5	993.9
27.5°	1047.6	938.0	859.4	819.6	783.5	747.9	746.4
30°	850.5	768.1	707.2	673.3	651.1	636.1	639.2
32.5°	716.9	660.5	619.5	591.2	574.8	563.5	563.3
35°	586.1	547.4	521.2	509.3	497.5	489.2	489.7
37.5°	501.6	478.4	463.7	450.6	443.2	439.2	437.0
40°	458.3	439.2	427.9	420.1	413.9	408.3	407.3
42.5°	424.0	408.3	396.9	390.8	385.1	381.0	380.0
45°	376.3	363.5	353.1	346.4	343.9	340.2	340.2
47.5°	334.8	322.0	314.1	309.8	305.4	303.0	302.9
50°	306.7	296.9	289.7	287.1	283.5	282.0	281.4
52.5°	281.6	274.3	269.1	267.3	265.8	263.8	264.2
55°	247.4	243.3	241.3	239.7	237.1	234.0	236.1
57.5°	218.6	215.2	209.6	204.8	202.4	200.3	201.1
60°	198.4	191.3	184.0	178.3	176.8	172.2	172.2
62.5°	172.9	162.8	153.9	150.8	149.2	147.0	146.6
65°	133.0	128.9	126.8	124.7	123.7	123.7	122.7
67.5°	110.2	108.6	106.3	105.7	104.7	104.4	104.1
70°	97.5	95.3	94.3	93.8	92.8	93.3	91.8
72.5°	85.0	83.4	83.2	81.9	81.2	81.3	80.2
75°	67.1	67.1	66.4	65.9	64.9	64.4	64.9
77.5°	51.5	51.6	50.7	50.6	50.5	50.6	50.1
80°	41.2	41.7	41.2	40.7	40.2	40.7	40.2
82.5°	32.6	31.8	31.7	31.6	31.5	31.2	31.1
85°	18.6	19.1	18.6	18.1	18.1	18.1	18.6
87.5°	11.7	12.0	12.2	12.2	12.2	12.2	11.8
90°	23.7	25.2	26.1	26.1	26.1	26.1	26.1
92.5°	59.1	52.4	47.6	46.9	44.3	45.0	43.7
95°	158.6	125.5	108.2	97.9	91.6	89.2	90.0
97.5°	394.9	309.4	252.5	214.7	195.3	183.8	177.1
100°	622.9	514.7	419.2	353.7	319.7	296.8	282.6
102.5°	854.6	775.5	674.3	603.1	545.1	516.5	497.4
105°	1048.3	1058.6	1032.6	983.6	934.6	900.7	889.7
107.5°	1034.1	1116.2	1154.5	1160.6	1157.9	1151.1	1136.4
110°	990.0	1091.0	1155.7	1189.6	1204.7	1211.7	1210.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	937.5	1045.5	1119.7	1166.9	1192.0	1205.5	1209.7
115°	866.0	969.4	1050.7	1106.7	1143.1	1163.6	1170.7
117.5°	807.9	901.7	978.0	1035.1	1073.5	1095.1	1101.1
120°	777.6	861.2	933.1	988.4	1025.4	1048.3	1056.2
122.5°	752.3	831.5	896.5	946.0	982.5	1002.9	1009.5
125°	719.1	788.6	847.8	893.6	923.6	943.3	949.7
127.5°	686.9	752.5	807.1	847.1	875.1	892.2	897.3
130°	665.5	727.8	779.9	818.6	845.5	861.2	867.6
132.5°	645.3	702.6	751.5	789.6	816.4	830.9	836.6
135°	613.4	665.5	709.6	743.7	769.7	783.9	787.1
137.5°	587.9	629.3	667.8	698.8	721.2	733.7	738.4
140°	571.6	607.8	642.6	667.8	688.3	700.2	705.0
142.5°	557.0	588.2	617.3	641.4	659.9	670.6	671.5
145°	538.4	562.9	585.7	604.7	618.1	626.0	628.3
147.5°	523.2	542.3	559.1	574.7	585.4	590.8	592.2
150°	513.1	529.7	543.9	555.7	565.2	570.0	570.8
152.5°	504.9	519.0	531.3	540.6	548.8	552.3	552.4
155°	491.8	503.6	512.3	521.0	526.5	529.7	528.2
157.5°	478.6	488.5	495.2	501.4	506.0	507.5	507.5
160°	469.7	478.4	483.9	489.5	493.4	494.1	494.1
162.5°	461.5	468.9	473.2	478.7	481.4	482.2	481.5
165°	449.2	454.7	457.9	461.0	464.1	464.1	463.4
167.5°	438.0	441.7	444.6	446.1	447.8	447.6	446.7
170°	431.0	434.1	435.8	436.6	438.9	438.1	436.6
172.5°	424.7	427.3	428.2	429.0	430.1	429.3	428.4
175°	417.6	418.4	419.2	419.2	420.0	419.2	417.6
177.5°	412.4	413.0	413.0	413.0	413.0	412.4	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5

(END OF REPORT)