

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: P331574-930

Luminaire Tested: **S122DIW-S865D1240U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331574-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S865D1240U930-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6613.4 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

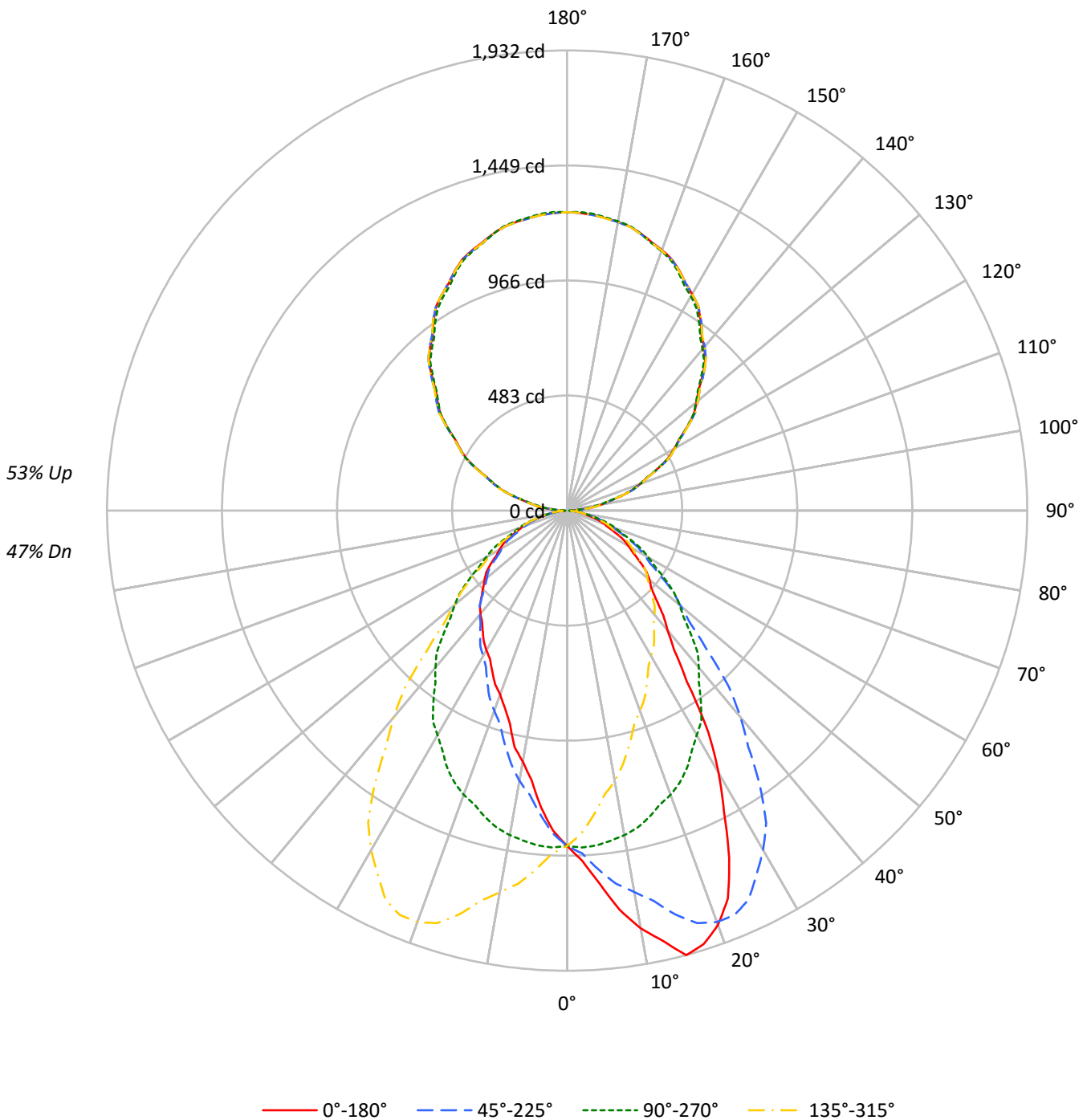
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	40
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	43	41	39	35
3	82	73	65	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30
4	75	64	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30	26
5	69	58	50	44	63	53	47	41	46	40	36	38	34	31	31	28	26	23
6	64	52	44	38	58	48	41	36	41	36	32	35	31	27	29	26	23	20
7	59	47	39	34	54	44	37	32	37	32	28	32	28	24	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	22727	22727	22727	22727
5°	25480	22875	20272	22875
10°	29198	22689	17544	22689
15°	32301	22272	15499	22272
20°	31809	21825	14129	21825
25°	28682	21232	13261	21232
30°	23702	20282	12629	20282
35°	17274	19291	12177	19291
40°	13797	18120	11927	18120
45°	12056	16762	11586	16762
50°	11333	15450	11359	15450
55°	10446	14117	11054	14117
60°	9571	12700	10585	12700
65°	8722	11427	10128	11427
70°	7917	10192	9451	10192
75°	7018	8808	8372	8808
80°	6034	7290	6741	7290
85°	5409	5409	4001	5409



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.1	2.0
10°-20°	389.7	5.9
20°-30°	565.6	8.6
30°-40°	596.9	9.0
40°-50°	528.5	8.0
50°-60°	421.7	6.4
60°-70°	286.7	4.3
70°-80°	147.0	2.2
80°-90°	40.4	0.6
90°-100°	79.4	1.2
100°-110°	246.5	3.7
110°-120°	421.4	6.4
120°-130°	554.2	8.4
130°-140°	622.0	9.4
140°-150°	609.9	9.2
150°-160°	511.5	7.7
160°-170°	339.3	5.1
170°-180°	118.6	1.8
0°-30°	1089.4	16.5
0°-40°	1686.3	25.5
0°-60°	2636.5	39.9
0°-90°	3110.6	47.0
90°-120°	747.3	11.3
90°-150°	2533.4	38.3
90°-180°	3503.0	53.0
0°-180°	6613.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1408	1408	1408	1408	1408	
5°	1572	1411	1251	1411	1572	157
15°	1932	1332	927	1332	1932	533
25°	1610	1192	744	1192	1610	728
35°	876	979	618	979	876	570
45°	528	734	507	734	528	415
55°	371	502	393	502	371	333
65°	228	299	265	299	228	227
75°	112	141	134	141	112	120
85°	29	29	22	29	29	33
90°	36	1	36	1	36	17
95°	66	55	66	55	66	73
105°	235	227	235	227	235	247
115°	423	423	423	423	423	418
125°	617	615	617	615	617	550
135°	806	796	806	796	806	620
145°	977	966	977	966	977	610
155°	1113	1105	1113	1105	1113	512
165°	1203	1202	1203	1202	1203	339
175°	1246	1251	1246	1251	1246	118
180°	1253	1253	1253	1253	1253	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1472.6	1473.0	1473.9	1467.0	1466.1	1466.1	1460.0	1454.8	1448.8	1440.6	1441.4
5°	1572.1	1578.1	1580.2	1573.8	1564.0	1562.9	1553.7	1538.6	1524.5	1513.1	1505.0
7.5°	1690.9	1693.3	1688.0	1679.4	1672.2	1659.2	1642.1	1625.4	1601.9	1580.4	1564.3
10°	1780.9	1784.2	1775.0	1762.5	1752.2	1737.1	1712.2	1686.8	1656.0	1626.2	1602.4
12.5°	1849.3	1857.3	1845.5	1843.9	1826.3	1805.5	1775.9	1763.0	1719.6	1678.1	1652.6
15°	1932.4	1931.9	1933.0	1922.6	1909.7	1906.4	1875.1	1841.0	1779.9	1755.5	1713.4
17.5°	1908.4	1916.6	1920.4	1920.3	1919.9	1917.9	1907.9	1886.4	1855.7	1816.2	1767.5
20°	1851.3	1862.1	1863.7	1876.2	1883.2	1892.4	1896.1	1890.2	1871.3	1838.3	1796.1
22.5°	1763.0	1766.0	1771.1	1790.5	1805.7	1828.8	1840.8	1860.8	1853.5	1837.4	1802.1
25°	1610.0	1604.6	1623.5	1633.2	1668.4	1705.2	1731.7	1760.9	1786.9	1802.5	1792.3
27.5°	1426.3	1418.1	1446.5	1472.3	1500.9	1540.8	1582.1	1630.8	1671.4	1722.2	1739.6
30°	1271.3	1276.2	1303.3	1330.8	1374.1	1430.4	1476.9	1530.5	1588.4	1645.1	1684.7
32.5°	1104.2	1123.0	1140.1	1182.3	1220.5	1283.2	1351.4	1418.4	1490.5	1555.1	1616.2
35°	876.4	898.1	921.9	952.7	1006.2	1068.4	1135.0	1225.3	1323.8	1412.0	1484.5
37.5°	737.7	734.3	747.9	770.1	813.5	863.7	940.4	1029.6	1145.5	1249.1	1351.4
40°	654.6	652.4	662.2	682.7	715.8	752.5	819.6	898.1	1005.7	1132.3	1254.0
42.5°	597.5	598.8	604.1	618.6	641.3	671.6	721.8	788.6	887.1	1006.3	1137.2
45°	528.0	531.8	537.8	544.8	557.7	582.6	610.7	658.4	736.3	835.8	964.6
47.5°	478.0	478.1	484.2	490.3	498.1	512.1	535.0	564.9	619.9	700.9	811.6
50°	451.2	447.4	451.8	456.6	464.7	474.4	489.6	517.7	554.5	620.0	712.5
52.5°	418.3	418.4	422.3	424.1	431.4	441.2	454.9	474.4	507.8	559.0	635.0
55°	371.1	373.8	376.0	379.2	385.7	392.7	403.6	416.5	442.5	480.9	537.2
57.5°	326.8	327.6	329.8	336.0	340.1	346.6	356.9	368.6	385.5	413.9	456.2
60°	296.4	296.4	300.8	303.5	308.9	315.4	323.5	334.8	350.0	373.2	407.4
62.5°	268.8	268.3	270.0	274.5	278.6	284.7	292.8	302.4	316.7	337.4	365.4
65°	228.3	227.2	230.5	231.5	235.9	241.8	248.3	258.6	269.9	285.1	310.0
67.5°	189.3	190.6	192.4	194.4	196.8	203.1	207.4	214.7	224.3	236.8	253.7
70°	167.7	167.7	167.7	169.3	172.6	175.9	180.2	186.1	195.3	206.1	221.3
72.5°	143.5	145.2	146.9	145.9	150.1	152.1	157.2	160.5	169.3	176.3	189.6
75°	112.5	112.5	112.5	115.2	116.8	118.5	121.7	125.0	129.3	137.9	145.0
77.5°	84.0	83.7	84.3	85.0	86.7	88.6	89.6	92.5	96.5	100.5	106.5
80°	64.9	66.0	66.5	67.6	67.6	68.7	69.2	73.1	75.7	78.4	82.3
82.5°	50.2	50.4	50.5	50.7	51.2	51.9	53.2	54.5	55.4	57.6	60.6
85°	29.2	28.7	28.7	29.8	29.2	29.2	30.3	31.4	31.4	31.9	33.5
87.5°	18.4	18.4	18.8	18.3	18.3	18.7	18.8	18.4	19.0	19.5	18.9
90°	36.0	35.7	35.5	35.2	35.0	35.1	35.6	36.0	36.5	37.0	31.8
92.5°	34.2	34.2	34.2	34.1	34.1	34.0	33.9	33.8	33.7	33.6	32.4
95°	65.6	66.0	66.4	66.9	67.4	67.7	67.7	67.7	67.7	67.7	67.2
97.5°	113.6	113.6	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	112.8
100°	144.8	145.0	145.3	145.5	145.8	145.9	145.9	145.9	145.9	145.9	145.2
102.5°	180.3	180.6	180.8	181.1	181.3	181.3	181.2	180.9	180.8	180.6	179.7
105°	234.7	234.7	234.7	234.7	234.7	234.5	234.0	233.5	233.0	232.6	232.1
107.5°	285.8	286.9	288.0	289.1	290.2	290.7	290.4	290.2	290.1	289.8	289.8
110°	325.6	326.3	327.0	327.8	328.4	328.8	328.8	328.8	328.8	328.8	328.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	363.6	364.2	364.7	365.2	365.7	366.2	366.8	367.4	367.9	368.5	368.7
115°	422.9	423.5	424.3	425.0	425.7	426.2	426.4	426.6	426.9	427.1	427.5
117.5°	479.3	480.0	480.7	481.4	482.2	482.7	483.3	483.9	484.5	485.0	486.3
120°	519.1	519.8	520.5	521.1	521.9	522.2	522.2	522.2	522.2	522.2	524.1
122.5°	558.0	558.5	559.0	559.5	560.0	560.6	561.2	561.7	562.2	562.8	564.1
125°	617.3	617.6	617.8	618.1	618.3	618.8	619.5	620.2	620.9	621.6	622.3
127.5°	671.5	672.3	673.0	673.8	674.5	675.3	676.1	677.0	677.8	678.7	679.6
130°	710.4	711.3	712.3	713.2	714.2	714.9	715.3	715.8	716.2	716.7	717.2
132.5°	747.6	748.4	749.1	749.9	750.6	751.5	752.5	753.6	754.6	755.6	755.5
135°	805.5	806.2	807.0	807.6	808.4	808.9	809.1	809.3	809.5	809.8	809.3
137.5°	858.0	858.9	859.9	860.8	861.8	862.3	862.5	862.7	862.9	863.1	862.4
140°	894.4	895.3	896.3	897.2	898.1	898.5	898.5	898.5	898.5	898.5	897.4
142.5°	927.3	928.3	929.2	930.2	931.1	931.5	931.3	931.1	930.9	930.7	929.9
145°	976.8	977.8	978.7	979.7	980.6	980.9	980.7	980.5	980.2	980.0	978.6
147.5°	1021.0	1021.9	1022.8	1023.7	1024.6	1024.7	1024.3	1023.7	1023.2	1022.7	1021.7
150°	1049.8	1050.4	1051.2	1051.9	1052.6	1052.6	1051.9	1051.2	1050.4	1049.8	1048.8
152.5°	1076.8	1077.7	1078.6	1079.5	1080.4	1080.4	1079.5	1078.6	1077.7	1076.8	1075.7
155°	1113.2	1113.9	1114.6	1115.3	1116.0	1115.7	1114.6	1113.5	1112.2	1111.1	1110.4
157.5°	1144.4	1145.6	1146.7	1147.9	1149.0	1148.8	1147.1	1145.6	1143.9	1142.4	1141.9
160°	1163.9	1164.9	1165.8	1166.8	1167.7	1167.4	1166.0	1164.7	1163.2	1161.8	1161.6
162.5°	1180.9	1181.9	1183.1	1184.2	1185.4	1185.1	1183.5	1181.9	1180.3	1178.8	1178.5
165°	1203.1	1204.2	1205.4	1206.6	1207.7	1207.5	1205.8	1204.2	1202.6	1200.9	1200.9
167.5°	1221.2	1222.5	1223.7	1224.9	1226.1	1225.9	1224.3	1222.6	1221.0	1219.3	1219.4
170°	1230.5	1231.9	1233.4	1234.8	1236.2	1236.1	1234.4	1232.7	1231.1	1229.5	1229.7
172.5°	1238.1	1239.6	1241.0	1242.4	1243.7	1243.7	1242.0	1240.4	1238.8	1237.1	1237.3
175°	1246.3	1247.8	1249.2	1250.6	1252.1	1251.9	1250.3	1248.6	1247.0	1245.3	1245.8
177.5°	1250.2	1251.3	1252.5	1253.6	1254.7	1254.7	1253.6	1252.5	1251.3	1250.2	1250.6
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1444.5	1441.0	1438.8	1431.0	1424.1	1417.2	1415.0	1415.8	1406.4	1397.3	1393.3
5°	1500.7	1489.9	1479.6	1465.0	1447.7	1428.7	1419.0	1411.4	1392.5	1372.0	1360.1
7.5°	1551.1	1535.6	1515.9	1488.4	1463.1	1433.4	1414.5	1397.7	1370.0	1341.0	1323.2
10°	1581.8	1560.7	1535.3	1501.8	1471.0	1434.7	1409.2	1383.9	1351.4	1316.8	1295.1
12.5°	1608.3	1579.8	1554.8	1511.7	1475.3	1430.0	1399.8	1363.9	1329.8	1288.7	1267.5
15°	1671.1	1618.6	1571.0	1522.3	1477.4	1414.1	1380.6	1332.4	1287.5	1236.7	1212.4
17.5°	1719.7	1660.8	1585.8	1523.9	1471.5	1401.4	1352.2	1294.5	1241.4	1183.2	1150.1
20°	1747.4	1679.8	1599.1	1525.6	1462.8	1382.7	1329.2	1270.2	1208.0	1142.6	1106.9
22.5°	1763.8	1692.7	1613.0	1519.1	1445.5	1367.6	1300.2	1235.6	1172.6	1101.9	1064.5
25°	1769.0	1704.1	1619.8	1513.7	1423.9	1335.7	1254.6	1191.8	1115.5	1049.5	994.9
27.5°	1743.3	1696.7	1615.6	1503.5	1398.9	1295.8	1205.3	1134.2	1053.8	982.1	927.2
30°	1711.7	1684.7	1605.7	1493.1	1379.0	1268.1	1168.6	1087.9	1007.9	935.4	879.1
32.5°	1662.8	1656.9	1587.5	1478.4	1357.8	1233.1	1130.0	1048.6	959.9	888.6	834.9
35°	1566.7	1592.7	1548.8	1445.5	1317.8	1183.2	1071.7	978.7	886.7	818.5	768.2
37.5°	1437.9	1502.4	1490.9	1397.3	1264.0	1128.9	1005.8	908.6	820.9	752.1	702.7
40°	1349.2	1431.4	1443.3	1360.6	1225.9	1086.9	956.5	859.7	774.1	711.4	661.6
42.5°	1254.0	1350.1	1382.7	1316.5	1184.3	1042.7	912.3	812.0	727.4	666.4	622.2
45°	1094.5	1221.6	1280.5	1242.7	1115.0	970.0	835.8	734.1	657.3	600.0	565.9
47.5°	945.2	1084.1	1163.4	1150.1	1037.8	894.2	761.6	664.0	589.2	543.5	513.0
50°	839.6	982.4	1078.2	1082.6	982.4	840.2	707.1	615.1	546.4	503.7	478.7
52.5°	747.9	884.2	988.6	1011.5	920.6	783.9	658.2	566.6	506.1	466.8	444.6
55°	628.1	743.3	859.1	901.3	828.3	698.4	582.1	501.5	444.7	417.7	398.2
57.5°	522.2	618.2	725.1	771.8	726.8	615.6	506.5	436.6	390.4	366.8	351.9
60°	466.4	542.1	637.3	693.0	654.0	555.1	459.8	393.3	355.5	334.4	320.2
62.5°	414.4	481.5	562.0	612.9	591.7	498.4	413.1	354.3	321.6	301.9	291.7
65°	341.9	394.9	457.1	504.2	490.2	419.2	349.5	299.1	273.2	257.5	249.4
67.5°	281.5	319.8	363.0	404.2	392.9	342.7	286.6	247.4	228.1	214.6	209.7
70°	243.4	272.6	311.0	344.1	334.8	293.8	249.4	215.9	199.1	187.8	182.9
72.5°	207.1	231.1	260.4	287.4	281.2	247.0	210.0	184.7	171.8	161.3	157.4
75°	156.4	174.7	192.6	210.4	208.8	182.3	160.7	141.2	130.9	122.8	121.2
77.5°	115.4	125.7	137.9	148.5	145.5	130.4	113.4	102.2	94.7	89.3	88.4
80°	88.2	94.2	102.8	110.4	106.6	100.1	86.6	78.4	73.1	67.6	65.5
82.5°	63.9	69.9	75.1	79.2	76.3	70.2	61.9	56.3	53.2	49.4	48.6
85°	33.5	36.8	39.0	40.0	39.0	35.1	31.4	29.2	26.5	24.9	24.4
87.5°	18.3	17.3	16.2	16.3	14.4	13.9	11.6	9.7	9.9	10.0	9.7
90°	26.7	21.5	16.3	12.3	9.5	6.7	3.9	1.1	3.9	6.7	9.5
92.5°	31.1	29.9	28.7	27.1	25.0	23.0	20.9	18.8	20.9	23.0	25.0
95°	66.7	66.3	65.8	64.4	62.0	59.7	57.3	55.0	57.3	59.7	62.0
97.5°	111.9	111.0	110.1	108.7	106.6	104.6	102.5	100.4	102.5	104.6	106.6
100°	144.5	143.7	143.1	141.8	139.9	138.0	136.2	134.3	136.2	138.0	139.9
102.5°	178.8	177.9	177.0	175.8	174.3	172.8	171.3	169.7	171.3	172.8	174.3
105°	231.6	231.1	230.7	230.1	229.4	228.7	228.0	227.3	228.0	228.7	229.4
107.5°	289.8	289.8	289.8	289.3	288.3	287.3	286.3	285.2	286.3	287.3	288.3
110°	328.8	328.8	328.8	328.1	326.7	325.2	323.8	322.5	323.8	325.2	326.7





TEST NUMBER: P331574-930

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	368.9	369.1	369.2	368.7	367.3	365.8	364.4	363.1	364.4	365.8	367.3
115°	428.0	428.5	428.9	428.5	427.1	425.7	424.3	422.9	424.3	425.7	427.1
117.5°	487.6	488.9	490.3	490.0	488.1	486.2	484.4	482.5	484.4	486.2	488.1
120°	526.0	527.9	529.8	529.8	527.9	526.0	524.1	522.2	524.1	526.0	527.9
122.5°	565.5	566.8	568.1	567.6	565.3	563.1	560.8	558.6	560.8	563.1	565.3
125°	623.1	623.7	624.4	623.7	621.6	619.5	617.3	615.2	617.3	619.5	621.6
127.5°	680.4	681.3	682.1	681.2	678.5	675.8	673.1	670.4	673.1	675.8	678.5
130°	717.7	718.2	718.6	717.3	714.3	711.3	708.2	705.2	708.2	711.3	714.3
132.5°	755.5	755.4	755.3	754.0	751.5	749.0	746.5	744.0	746.5	749.0	751.5
135°	808.9	808.4	807.9	806.4	803.8	801.2	798.6	796.1	798.6	801.2	803.8
137.5°	861.9	861.2	860.6	859.2	857.1	855.0	852.9	850.8	852.9	855.0	857.1
140°	896.3	895.0	893.9	892.3	890.1	888.0	885.9	883.8	885.9	888.0	890.1
142.5°	929.1	928.3	927.5	926.1	924.0	921.9	919.7	917.6	919.7	921.9	924.0
145°	977.1	975.8	974.4	972.8	971.2	969.6	967.9	966.2	967.9	969.6	971.2
147.5°	1020.8	1019.9	1019.0	1017.5	1015.5	1013.5	1011.5	1009.6	1011.5	1013.5	1015.5
150°	1047.9	1046.9	1046.0	1044.8	1043.4	1042.0	1040.6	1039.2	1040.6	1042.0	1043.4
152.5°	1074.6	1073.4	1072.3	1071.1	1069.6	1068.2	1066.8	1065.4	1066.8	1068.2	1069.6
155°	1109.6	1109.0	1108.2	1107.6	1106.9	1106.1	1105.5	1104.7	1105.5	1106.1	1106.9
157.5°	1141.5	1141.1	1140.7	1140.2	1139.8	1139.3	1138.8	1138.3	1138.8	1139.3	1139.8
160°	1161.3	1161.1	1160.9	1160.5	1160.1	1159.6	1159.1	1158.6	1159.1	1159.6	1160.1
162.5°	1178.3	1178.0	1177.8	1177.6	1177.5	1177.5	1177.4	1177.2	1177.4	1177.5	1177.5
165°	1200.9	1200.9	1200.9	1201.0	1201.3	1201.5	1201.8	1202.0	1201.8	1201.5	1201.3
167.5°	1219.4	1219.4	1219.5	1219.9	1220.6	1221.3	1222.0	1222.7	1222.0	1221.3	1220.6
170°	1230.0	1230.2	1230.4	1230.9	1231.6	1232.3	1233.0	1233.7	1233.0	1232.3	1231.6
172.5°	1237.5	1237.8	1238.0	1238.5	1239.2	1239.9	1240.6	1241.3	1240.6	1239.9	1239.2
175°	1246.3	1246.8	1247.2	1247.8	1248.5	1249.2	1249.9	1250.6	1249.9	1249.2	1248.5
177.5°	1250.9	1251.3	1251.7	1252.1	1252.7	1253.3	1253.8	1254.4	1253.8	1253.3	1252.7
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7



TEST NUMBER: P331574-930

CATALOG NUMBER: S122DIW-S865D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1389.0	1386.4	1377.4	1372.6	1364.8	1357.5	1352.7	1354.9	1356.6	1355.7	1354.5
5°	1349.2	1339.0	1323.2	1309.7	1300.0	1282.1	1274.6	1270.8	1267.5	1263.7	1260.0
7.5°	1301.9	1285.6	1263.1	1243.8	1225.6	1203.5	1190.8	1183.2	1175.5	1166.9	1159.4
10°	1268.1	1245.4	1221.6	1194.5	1172.9	1152.8	1135.0	1123.1	1112.3	1102.0	1094.5
12.5°	1232.6	1206.4	1177.0	1140.0	1116.1	1087.5	1084.8	1063.8	1046.9	1040.6	1031.7
15°	1176.2	1139.3	1102.0	1058.2	1039.3	1013.3	997.0	980.8	966.2	955.9	953.2
17.5°	1112.0	1064.4	1027.2	995.7	964.7	938.1	923.2	910.2	898.1	884.4	882.6
20°	1063.1	1021.9	981.4	953.7	921.9	894.8	876.4	863.4	853.1	845.1	838.0
22.5°	1016.8	971.8	934.6	904.4	872.9	851.1	836.6	824.0	815.5	806.5	799.9
25°	942.4	907.3	866.7	832.6	806.6	792.6	780.6	769.8	764.4	758.5	750.9
27.5°	877.3	838.3	800.4	774.0	751.1	738.7	730.3	722.8	717.8	714.3	710.0
30°	831.5	792.0	762.2	736.3	717.4	704.9	699.5	695.2	689.3	687.1	684.9
32.5°	787.3	751.8	726.4	703.8	685.7	677.7	672.7	668.8	664.1	661.9	657.6
35°	725.0	695.2	670.3	657.9	643.3	636.2	632.4	627.0	622.6	620.5	620.0
37.5°	666.2	640.3	623.9	608.0	601.8	597.5	592.3	588.6	587.3	586.9	586.4
40°	628.1	607.0	592.4	579.4	576.7	570.2	565.9	562.6	562.6	563.2	562.6
42.5°	593.5	574.5	561.7	550.4	547.2	543.4	539.1	538.8	539.7	541.5	539.7
45°	541.0	527.5	518.3	512.8	506.9	503.1	502.6	504.2	504.8	505.3	506.9
47.5°	492.8	483.7	475.4	469.4	466.8	466.2	465.5	468.4	471.0	472.0	474.4
50°	464.1	453.9	446.9	443.0	440.9	439.9	440.9	444.2	446.3	449.0	450.6
52.5°	432.1	424.9	420.0	417.1	416.2	416.9	417.1	420.8	424.3	425.2	426.0
55°	387.9	382.5	381.4	376.5	378.7	378.1	380.8	383.0	386.3	389.6	390.0
57.5°	343.7	339.4	336.5	337.0	337.6	340.0	342.3	346.0	349.5	352.9	353.3
60°	314.3	312.2	310.5	310.5	311.6	314.9	317.6	321.3	323.5	325.7	327.3
62.5°	287.5	285.4	283.7	284.5	287.4	289.3	292.4	294.5	296.7	298.8	299.6
65°	245.1	244.0	245.6	246.7	247.2	250.0	253.7	255.4	257.5	258.6	262.4
67.5°	206.0	206.2	206.0	207.5	210.7	211.3	214.9	218.7	219.1	221.2	223.6
70°	179.6	180.7	181.8	182.9	185.6	186.6	189.3	190.9	193.1	194.8	196.4
72.5°	155.4	155.6	156.7	156.5	158.7	161.1	163.4	165.0	167.1	169.3	170.8
75°	119.5	119.5	120.7	121.2	123.9	126.6	126.0	127.1	129.3	131.4	132.6
77.5°	87.3	86.1	87.3	87.9	88.7	91.0	91.4	92.9	95.4	94.7	95.9
80°	66.5	64.9	66.5	67.1	67.1	69.8	69.8	70.8	72.5	70.8	72.5
82.5°	47.5	46.7	47.9	48.0	48.9	49.0	49.9	50.1	51.7	51.0	51.7
85°	23.8	23.2	23.8	23.2	23.8	24.4	24.4	23.8	23.8	24.9	23.2
87.5°	9.8	10.2	10.8	11.8	12.4	13.0	12.5	12.4	12.3	11.3	11.3
90°	12.3	16.3	21.5	26.7	31.8	37.0	36.5	36.0	35.6	35.1	35.0
92.5°	27.1	28.7	29.9	31.1	32.4	33.6	33.7	33.8	33.9	34.0	34.1
95°	64.4	65.8	66.3	66.7	67.2	67.7	67.7	67.7	67.7	67.7	67.4
97.5°	108.7	110.1	111.0	111.9	112.8	113.7	113.7	113.7	113.7	113.7	113.7
100°	141.8	143.1	143.7	144.5	145.2	145.9	145.9	145.9	145.9	145.9	145.8
102.5°	175.8	177.0	177.9	178.8	179.7	180.6	180.8	180.9	181.2	181.3	181.3
105°	230.1	230.7	231.1	231.6	232.1	232.6	233.0	233.5	234.0	234.5	234.7
107.5°	289.3	289.8	289.8	289.8	289.8	289.8	290.1	290.2	290.4	290.7	290.2
110°	328.1	328.8	328.8	328.8	328.8	328.8	328.8	328.8	328.8	328.8	328.4



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	368.7	369.2	369.1	368.9	368.7	368.5	367.9	367.4	366.8	366.2	365.7
115°	428.5	428.9	428.5	428.0	427.5	427.1	426.9	426.6	426.4	426.2	425.7
117.5°	490.0	490.3	488.9	487.6	486.3	485.0	484.5	483.9	483.3	482.7	482.2
120°	529.8	529.8	527.9	526.0	524.1	522.2	522.2	522.2	522.2	522.2	521.9
122.5°	567.6	568.1	566.8	565.5	564.1	562.8	562.2	561.7	561.2	560.6	560.0
125°	623.7	624.4	623.7	623.1	622.3	621.6	620.9	620.2	619.5	618.8	618.3
127.5°	681.2	682.1	681.3	680.4	679.6	678.7	677.8	677.0	676.1	675.3	674.5
130°	717.3	718.6	718.2	717.7	717.2	716.7	716.2	715.8	715.3	714.9	714.2
132.5°	754.0	755.3	755.4	755.5	755.5	755.6	754.6	753.6	752.5	751.5	750.6
135°	806.4	807.9	808.4	808.9	809.3	809.8	809.5	809.3	809.1	808.9	808.4
137.5°	859.2	860.6	861.2	861.9	862.4	863.1	862.9	862.7	862.5	862.3	861.8
140°	892.3	893.9	895.0	896.3	897.4	898.5	898.5	898.5	898.5	898.5	898.1
142.5°	926.1	927.5	928.3	929.1	929.9	930.7	930.9	931.1	931.3	931.5	931.1
145°	972.8	974.4	975.8	977.1	978.6	980.0	980.2	980.5	980.7	980.9	980.6
147.5°	1017.5	1019.0	1019.9	1020.8	1021.7	1022.7	1023.2	1023.7	1024.3	1024.7	1024.6
150°	1044.8	1046.0	1046.9	1047.9	1048.8	1049.8	1050.4	1051.2	1051.9	1052.6	1052.6
152.5°	1071.1	1072.3	1073.4	1074.6	1075.7	1076.8	1077.7	1078.6	1079.5	1080.4	1080.4
155°	1107.6	1108.2	1109.0	1109.6	1110.4	1111.1	1112.2	1113.5	1114.6	1115.7	1116.0
157.5°	1140.2	1140.7	1141.1	1141.5	1141.9	1142.4	1143.9	1145.6	1147.1	1148.8	1149.0
160°	1160.5	1160.9	1161.1	1161.3	1161.6	1161.8	1163.2	1164.7	1166.0	1167.4	1167.7
162.5°	1177.6	1177.8	1178.0	1178.3	1178.5	1178.8	1180.3	1181.9	1183.5	1185.1	1185.4
165°	1201.0	1200.9	1200.9	1200.9	1200.9	1200.9	1202.6	1204.2	1205.8	1207.5	1207.7
167.5°	1219.9	1219.5	1219.4	1219.4	1219.4	1219.3	1221.0	1222.6	1224.3	1225.9	1226.1
170°	1230.9	1230.4	1230.2	1230.0	1229.7	1229.5	1231.1	1232.7	1234.4	1236.1	1236.2
172.5°	1238.5	1238.0	1237.8	1237.5	1237.3	1237.1	1238.8	1240.4	1242.0	1243.7	1243.7
175°	1247.8	1247.2	1246.8	1246.3	1245.8	1245.3	1247.0	1248.6	1250.3	1251.9	1252.1
177.5°	1252.1	1251.7	1251.3	1250.9	1250.6	1250.2	1251.3	1252.5	1253.6	1254.7	1254.7
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1350.1	1349.2	1349.2	1345.3	1349.2	1349.2	1350.1	1354.5	1355.7	1356.6	1354.9
5°	1252.4	1250.8	1248.1	1250.8	1248.1	1250.8	1252.4	1260.0	1263.7	1267.5	1270.8
7.5°	1155.8	1149.2	1148.3	1141.9	1148.3	1149.2	1155.8	1159.4	1166.9	1175.5	1183.2
10°	1085.2	1080.9	1080.4	1070.1	1080.4	1080.9	1085.2	1094.5	1102.0	1112.3	1123.1
12.5°	1031.6	1021.2	1023.2	1017.2	1023.2	1021.2	1031.6	1031.7	1040.6	1046.9	1063.8
15°	938.7	938.7	936.5	927.2	936.5	938.7	938.7	953.2	955.9	966.2	980.8
17.5°	871.9	870.7	865.6	868.2	865.6	870.7	871.9	882.6	884.4	898.1	910.2
20°	832.0	828.8	822.3	822.3	822.3	828.8	832.0	838.0	845.1	853.1	863.4
22.5°	794.4	794.2	787.3	789.4	787.3	794.2	794.4	799.9	806.5	815.5	824.0
25°	750.3	746.0	742.8	744.4	742.8	746.0	750.3	750.9	758.5	764.4	769.8
27.5°	708.6	706.2	706.0	701.6	706.0	706.2	708.6	710.0	714.3	717.8	722.8
30°	684.4	679.0	680.0	677.4	680.0	679.0	684.4	684.9	687.1	689.3	695.2
32.5°	656.6	654.7	653.6	651.3	653.6	654.7	656.6	657.6	661.9	664.1	668.8
35°	618.9	619.5	616.7	617.8	616.7	619.5	618.9	620.0	620.5	622.6	627.0
37.5°	585.9	587.6	586.4	586.7	586.4	587.6	585.9	586.4	586.9	587.3	588.6
40°	564.3	564.3	564.3	565.9	564.3	564.3	564.3	562.6	563.2	562.6	562.6
42.5°	543.5	542.6	541.8	541.6	541.8	542.6	543.5	539.7	541.5	539.7	538.8
45°	508.0	509.6	510.1	507.4	510.1	509.6	508.0	506.9	505.3	504.8	504.2
47.5°	475.9	476.1	475.9	478.3	475.9	476.1	475.9	474.4	472.0	471.0	468.4
50°	453.4	452.2	453.4	452.2	453.4	452.2	453.4	450.6	449.0	446.3	444.2
52.5°	429.6	429.7	429.1	428.9	429.1	429.7	429.6	426.0	425.2	424.3	420.8
55°	392.2	393.3	392.7	392.7	392.7	393.3	392.2	390.0	389.6	386.3	383.0
57.5°	353.6	354.6	355.3	352.9	355.3	354.6	353.6	353.3	352.9	349.5	346.0
60°	326.8	329.5	328.9	327.8	328.9	329.5	326.8	327.3	325.7	323.5	321.3
62.5°	302.1	303.0	303.0	302.7	303.0	303.0	302.1	299.6	298.8	296.7	294.5
65°	264.0	265.1	263.4	265.1	263.4	265.1	264.0	262.4	258.6	257.5	255.4
67.5°	223.0	223.3	224.5	225.3	224.5	223.3	223.0	223.6	221.2	219.1	218.7
70°	197.5	196.9	198.5	200.2	198.5	196.9	197.5	196.4	194.8	193.1	190.9
72.5°	170.6	171.8	171.3	172.4	171.3	171.8	170.6	170.8	169.3	167.1	165.0
75°	131.4	133.1	132.6	134.2	132.6	133.1	131.4	132.6	131.4	129.3	127.1
77.5°	95.0	95.2	95.0	95.9	95.0	95.2	95.0	95.9	94.7	95.4	92.9
80°	72.5	71.4	70.4	72.5	70.4	71.4	72.5	72.5	70.8	72.5	70.8
82.5°	50.4	51.0	50.0	50.0	50.0	51.0	50.4	51.7	51.0	51.7	50.1
85°	23.2	22.7	21.6	21.6	21.6	22.7	23.2	23.2	24.9	23.8	23.8
87.5°	11.4	11.0	11.0	10.7	11.0	11.0	11.4	11.3	11.3	12.3	12.4
90°	35.2	35.5	35.7	36.0	35.7	35.5	35.2	35.0	35.1	35.6	36.0
92.5°	34.1	34.2	34.2	34.2	34.2	34.2	34.1	34.1	34.0	33.9	33.8
95°	66.9	66.4	66.0	65.6	66.0	66.4	66.9	67.4	67.7	67.7	67.7
97.5°	113.7	113.7	113.6	113.6	113.6	113.7	113.7	113.7	113.7	113.7	113.7
100°	145.5	145.3	145.0	144.8	145.0	145.3	145.5	145.8	145.9	145.9	145.9
102.5°	181.1	180.8	180.6	180.3	180.6	180.8	181.1	181.3	181.3	181.2	180.9
105°	234.7	234.7	234.7	234.7	234.7	234.7	234.7	234.7	234.5	234.0	233.5
107.5°	289.1	288.0	286.9	285.8	286.9	288.0	289.1	290.2	290.7	290.4	290.2
110°	327.8	327.0	326.3	325.6	326.3	327.0	327.8	328.4	328.8	328.8	328.8



TEST NUMBER: P331574-930

CATALOG NUMBER: S122DIW-S865D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	365.2	364.7	364.2	363.6	364.2	364.7	365.2	365.7	366.2	366.8	367.4
115°	425.0	424.3	423.5	422.9	423.5	424.3	425.0	425.7	426.2	426.4	426.6
117.5°	481.4	480.7	480.0	479.3	480.0	480.7	481.4	482.2	482.7	483.3	483.9
120°	521.1	520.5	519.8	519.1	519.8	520.5	521.1	521.9	522.2	522.2	522.2
122.5°	559.5	559.0	558.5	558.0	558.5	559.0	559.5	560.0	560.6	561.2	561.7
125°	618.1	617.8	617.6	617.3	617.6	617.8	618.1	618.3	618.8	619.5	620.2
127.5°	673.8	673.0	672.3	671.5	672.3	673.0	673.8	674.5	675.3	676.1	677.0
130°	713.2	712.3	711.3	710.4	711.3	712.3	713.2	714.2	714.9	715.3	715.8
132.5°	749.9	749.1	748.4	747.6	748.4	749.1	749.9	750.6	751.5	752.5	753.6
135°	807.6	807.0	806.2	805.5	806.2	807.0	807.6	808.4	808.9	809.1	809.3
137.5°	860.8	859.9	858.9	858.0	858.9	859.9	860.8	861.8	862.3	862.5	862.7
140°	897.2	896.3	895.3	894.4	895.3	896.3	897.2	898.1	898.5	898.5	898.5
142.5°	930.2	929.2	928.3	927.3	928.3	929.2	930.2	931.1	931.5	931.3	931.1
145°	979.7	978.7	977.8	976.8	977.8	978.7	979.7	980.6	980.9	980.7	980.5
147.5°	1023.7	1022.8	1021.9	1021.0	1021.9	1022.8	1023.7	1024.6	1024.7	1024.3	1023.7
150°	1051.9	1051.2	1050.4	1049.8	1050.4	1051.2	1051.9	1052.6	1052.6	1051.9	1051.2
152.5°	1079.5	1078.6	1077.7	1076.8	1077.7	1078.6	1079.5	1080.4	1080.4	1079.5	1078.6
155°	1115.3	1114.6	1113.9	1113.2	1113.9	1114.6	1115.3	1116.0	1115.7	1114.6	1113.5
157.5°	1147.9	1146.7	1145.6	1144.4	1145.6	1146.7	1147.9	1149.0	1148.8	1147.1	1145.6
160°	1166.8	1165.8	1164.9	1163.9	1164.9	1165.8	1166.8	1167.7	1167.4	1166.0	1164.7
162.5°	1184.2	1183.1	1181.9	1180.9	1181.9	1183.1	1184.2	1185.4	1185.1	1183.5	1181.9
165°	1206.6	1205.4	1204.2	1203.1	1204.2	1205.4	1206.6	1207.7	1207.5	1205.8	1204.2
167.5°	1224.9	1223.7	1222.5	1221.2	1222.5	1223.7	1224.9	1226.1	1225.9	1224.3	1222.6
170°	1234.8	1233.4	1231.9	1230.5	1231.9	1233.4	1234.8	1236.2	1236.1	1234.4	1232.7
172.5°	1242.4	1241.0	1239.6	1238.1	1239.6	1241.0	1242.4	1243.7	1243.7	1242.0	1240.4
175°	1250.6	1249.2	1247.8	1246.3	1247.8	1249.2	1250.6	1252.1	1251.9	1250.3	1248.6
177.5°	1253.6	1252.5	1251.3	1250.2	1251.3	1252.5	1253.6	1254.7	1254.7	1253.6	1252.5
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7



TEST NUMBER: P331574-930

CATALOG NUMBER: S122DIW-S865D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1352.7	1357.5	1364.8	1372.6	1377.4	1386.4	1389.0	1393.3	1397.3	1406.4	1415.8
5°	1274.6	1282.1	1300.0	1309.7	1323.2	1339.0	1349.2	1360.1	1372.0	1392.5	1411.4
7.5°	1190.8	1203.5	1225.6	1243.8	1263.1	1285.6	1301.9	1323.2	1341.0	1370.0	1397.7
10°	1135.0	1152.8	1172.9	1194.5	1221.6	1245.4	1268.1	1295.1	1316.8	1351.4	1383.9
12.5°	1084.8	1087.5	1116.1	1140.0	1177.0	1206.4	1232.6	1267.5	1288.7	1329.8	1363.9
15°	997.0	1013.3	1039.3	1058.2	1102.0	1139.3	1176.2	1212.4	1236.7	1287.5	1332.4
17.5°	923.2	938.1	964.7	995.7	1027.2	1064.4	1112.0	1150.1	1183.2	1241.4	1294.5
20°	876.4	894.8	921.9	953.7	981.4	1021.9	1063.1	1106.9	1142.6	1208.0	1270.2
22.5°	836.6	851.1	872.9	904.4	934.6	971.8	1016.8	1064.5	1101.9	1172.6	1235.6
25°	780.6	792.6	806.6	832.6	866.7	907.3	942.4	994.9	1049.5	1115.5	1191.8
27.5°	730.3	738.7	751.1	774.0	800.4	838.3	877.3	927.2	982.1	1053.8	1134.2
30°	699.5	704.9	717.4	736.3	762.2	792.0	831.5	879.1	935.4	1007.9	1087.9
32.5°	672.7	677.7	685.7	703.8	726.4	751.8	787.3	834.9	888.6	959.9	1048.6
35°	632.4	636.2	643.3	657.9	670.3	695.2	725.0	768.2	818.5	886.7	978.7
37.5°	592.3	597.5	601.8	608.0	623.9	640.3	666.2	702.7	752.1	820.9	908.6
40°	565.9	570.2	576.7	579.4	592.4	607.0	628.1	661.6	711.4	774.1	859.7
42.5°	539.1	543.4	547.2	550.4	561.7	574.5	593.5	622.2	666.4	727.4	812.0
45°	502.6	503.1	506.9	512.8	518.3	527.5	541.0	565.9	600.0	657.3	734.1
47.5°	465.5	466.2	466.8	469.4	475.4	483.7	492.8	513.0	543.5	589.2	664.0
50°	440.9	439.9	440.9	443.0	446.9	453.9	464.1	478.7	503.7	546.4	615.1
52.5°	417.1	416.9	416.2	417.1	420.0	424.9	432.1	444.6	466.8	506.1	566.6
55°	380.8	378.1	378.7	376.5	381.4	382.5	387.9	398.2	417.7	444.7	501.5
57.5°	342.3	340.0	337.6	337.0	336.5	339.4	343.7	351.9	366.8	390.4	436.6
60°	317.6	314.9	311.6	310.5	310.5	312.2	314.3	320.2	334.4	355.5	393.3
62.5°	292.4	289.3	287.4	284.5	283.7	285.4	287.5	291.7	301.9	321.6	354.3
65°	253.7	250.0	247.2	246.7	245.6	244.0	245.1	249.4	257.5	273.2	299.1
67.5°	214.9	211.3	210.7	207.5	206.0	206.2	206.0	209.7	214.6	228.1	247.4
70°	189.3	186.6	185.6	182.9	181.8	180.7	179.6	182.9	187.8	199.1	215.9
72.5°	163.4	161.1	158.7	156.5	156.7	155.6	155.4	157.4	161.3	171.8	184.7
75°	126.0	126.6	123.9	121.2	120.7	119.5	119.5	121.2	122.8	130.9	141.2
77.5°	91.4	91.0	88.7	87.9	87.3	86.1	87.3	88.4	89.3	94.7	102.2
80°	69.8	69.8	67.1	67.1	66.5	64.9	66.5	65.5	67.6	73.1	78.4
82.5°	49.9	49.0	48.9	48.0	47.9	46.7	47.5	48.6	49.4	53.2	56.3
85°	24.4	24.4	23.8	23.2	23.8	23.2	23.8	24.4	24.9	26.5	29.2
87.5°	12.5	13.0	12.4	11.8	10.8	10.2	9.8	9.7	10.0	9.9	9.7
90°	36.5	37.0	31.8	26.7	21.5	16.3	12.3	9.5	6.7	3.9	1.1
92.5°	33.7	33.6	32.4	31.1	29.9	28.7	27.1	25.0	23.0	20.9	18.8
95°	67.7	67.7	67.2	66.7	66.3	65.8	64.4	62.0	59.7	57.3	55.0
97.5°	113.7	113.7	112.8	111.9	111.0	110.1	108.7	106.6	104.6	102.5	100.4
100°	145.9	145.9	145.2	144.5	143.7	143.1	141.8	139.9	138.0	136.2	134.3
102.5°	180.8	180.6	179.7	178.8	177.9	177.0	175.8	174.3	172.8	171.3	169.7
105°	233.0	232.6	232.1	231.6	231.1	230.7	230.1	229.4	228.7	228.0	227.3
107.5°	290.1	289.8	289.8	289.8	289.8	289.8	289.3	288.3	287.3	286.3	285.2
110°	328.8	328.8	328.8	328.8	328.8	328.8	328.1	326.7	325.2	323.8	322.5



TEST NUMBER: P331574-930

CATALOG NUMBER: S122DIW-S865D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	367.9	368.5	368.7	368.9	369.1	369.2	368.7	367.3	365.8	364.4	363.1
115°	426.9	427.1	427.5	428.0	428.5	428.9	428.5	427.1	425.7	424.3	422.9
117.5°	484.5	485.0	486.3	487.6	488.9	490.3	490.0	488.1	486.2	484.4	482.5
120°	522.2	522.2	524.1	526.0	527.9	529.8	529.8	527.9	526.0	524.1	522.2
122.5°	562.2	562.8	564.1	565.5	566.8	568.1	567.6	565.3	563.1	560.8	558.6
125°	620.9	621.6	622.3	623.1	623.7	624.4	623.7	621.6	619.5	617.3	615.2
127.5°	677.8	678.7	679.6	680.4	681.3	682.1	681.2	678.5	675.8	673.1	670.4
130°	716.2	716.7	717.2	717.7	718.2	718.6	717.3	714.3	711.3	708.2	705.2
132.5°	754.6	755.6	755.5	755.5	755.4	755.3	754.0	751.5	749.0	746.5	744.0
135°	809.5	809.8	809.3	808.9	808.4	807.9	806.4	803.8	801.2	798.6	796.1
137.5°	862.9	863.1	862.4	861.9	861.2	860.6	859.2	857.1	855.0	852.9	850.8
140°	898.5	898.5	897.4	896.3	895.0	893.9	892.3	890.1	888.0	885.9	883.8
142.5°	930.9	930.7	929.9	929.1	928.3	927.5	926.1	924.0	921.9	919.7	917.6
145°	980.2	980.0	978.6	977.1	975.8	974.4	972.8	971.2	969.6	967.9	966.2
147.5°	1023.2	1022.7	1021.7	1020.8	1019.9	1019.0	1017.5	1015.5	1013.5	1011.5	1009.6
150°	1050.4	1049.8	1048.8	1047.9	1046.9	1046.0	1044.8	1043.4	1042.0	1040.6	1039.2
152.5°	1077.7	1076.8	1075.7	1074.6	1073.4	1072.3	1071.1	1069.6	1068.2	1066.8	1065.4
155°	1112.2	1111.1	1110.4	1109.6	1109.0	1108.2	1107.6	1106.9	1106.1	1105.5	1104.7
157.5°	1143.9	1142.4	1141.9	1141.5	1141.1	1140.7	1140.2	1139.8	1139.3	1138.8	1138.3
160°	1163.2	1161.8	1161.6	1161.3	1161.1	1160.9	1160.5	1160.1	1159.6	1159.1	1158.6
162.5°	1180.3	1178.8	1178.5	1178.3	1178.0	1177.8	1177.6	1177.5	1177.5	1177.4	1177.2
165°	1202.6	1200.9	1200.9	1200.9	1200.9	1200.9	1201.0	1201.3	1201.5	1201.8	1202.0
167.5°	1221.0	1219.3	1219.4	1219.4	1219.4	1219.5	1219.9	1220.6	1221.3	1222.0	1222.7
170°	1231.1	1229.5	1229.7	1230.0	1230.2	1230.4	1230.9	1231.6	1232.3	1233.0	1233.7
172.5°	1238.8	1237.1	1237.3	1237.5	1237.8	1238.0	1238.5	1239.2	1239.9	1240.6	1241.3
175°	1247.0	1245.3	1245.8	1246.3	1246.8	1247.2	1247.8	1248.5	1249.2	1249.9	1250.6
177.5°	1251.3	1250.2	1250.6	1250.9	1251.3	1251.7	1252.1	1252.7	1253.3	1253.8	1254.4
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1415.0	1417.2	1424.1	1431.0	1438.8	1441.0	1444.5	1441.4	1440.6	1448.8	1454.8
5°	1419.0	1428.7	1447.7	1465.0	1479.6	1489.9	1500.7	1505.0	1513.1	1524.5	1538.6
7.5°	1414.5	1433.4	1463.1	1488.4	1515.9	1535.6	1551.1	1564.3	1580.4	1601.9	1625.4
10°	1409.2	1434.7	1471.0	1501.8	1535.3	1560.7	1581.8	1602.4	1626.2	1656.0	1686.8
12.5°	1399.8	1430.0	1475.3	1511.7	1554.8	1579.8	1608.3	1652.6	1678.1	1719.6	1763.0
15°	1380.6	1414.1	1477.4	1522.3	1571.0	1618.6	1671.1	1713.4	1755.5	1779.9	1841.0
17.5°	1352.2	1401.4	1471.5	1523.9	1585.8	1660.8	1719.7	1767.5	1816.2	1855.7	1886.4
20°	1329.2	1382.7	1462.8	1525.6	1599.1	1679.8	1747.4	1796.1	1838.3	1871.3	1890.2
22.5°	1300.2	1367.6	1445.5	1519.1	1613.0	1692.7	1763.8	1802.1	1837.4	1853.5	1860.8
25°	1254.6	1335.7	1423.9	1513.7	1619.8	1704.1	1769.0	1792.3	1802.5	1786.9	1760.9
27.5°	1205.3	1295.8	1398.9	1503.5	1615.6	1696.7	1743.3	1739.6	1722.2	1671.4	1630.8
30°	1168.6	1268.1	1379.0	1493.1	1605.7	1684.7	1711.7	1684.7	1645.1	1588.4	1530.5
32.5°	1130.0	1233.1	1357.8	1478.4	1587.5	1656.9	1662.8	1616.2	1555.1	1490.5	1418.4
35°	1071.7	1183.2	1317.8	1445.5	1548.8	1592.7	1566.7	1484.5	1412.0	1323.8	1225.3
37.5°	1005.8	1128.9	1264.0	1397.3	1490.9	1502.4	1437.9	1351.4	1249.1	1145.5	1029.6
40°	956.5	1086.9	1225.9	1360.6	1443.3	1431.4	1349.2	1254.0	1132.3	1005.7	898.1
42.5°	912.3	1042.7	1184.3	1316.5	1382.7	1350.1	1254.0	1137.2	1006.3	887.1	788.6
45°	835.8	970.0	1115.0	1242.7	1280.5	1221.6	1094.5	964.6	835.8	736.3	658.4
47.5°	761.6	894.2	1037.8	1150.1	1163.4	1084.1	945.2	811.6	700.9	619.9	564.9
50°	707.1	840.2	982.4	1082.6	1078.2	982.4	839.6	712.5	620.0	554.5	517.7
52.5°	658.2	783.9	920.6	1011.5	988.6	884.2	747.9	635.0	559.0	507.8	474.4
55°	582.1	698.4	828.3	901.3	859.1	743.3	628.1	537.2	480.9	442.5	416.5
57.5°	506.5	615.6	726.8	771.8	725.1	618.2	522.2	456.2	413.9	385.5	368.6
60°	459.8	555.1	654.0	693.0	637.3	542.1	466.4	407.4	373.2	350.0	334.8
62.5°	413.1	498.4	591.7	612.9	562.0	481.5	414.4	365.4	337.4	316.7	302.4
65°	349.5	419.2	490.2	504.2	457.1	394.9	341.9	310.0	285.1	269.9	258.6
67.5°	286.6	342.7	392.9	404.2	363.0	319.8	281.5	253.7	236.8	224.3	214.7
70°	249.4	293.8	334.8	344.1	311.0	272.6	243.4	221.3	206.1	195.3	186.1
72.5°	210.0	247.0	281.2	287.4	260.4	231.1	207.1	189.6	176.3	169.3	160.5
75°	160.7	182.3	208.8	210.4	192.6	174.7	156.4	145.0	137.9	129.3	125.0
77.5°	113.4	130.4	145.5	148.5	137.9	125.7	115.4	106.5	100.5	96.5	92.5
80°	86.6	100.1	106.6	110.4	102.8	94.2	88.2	82.3	78.4	75.7	73.1
82.5°	61.9	70.2	76.3	79.2	75.1	69.9	63.9	60.6	57.6	55.4	54.5
85°	31.4	35.1	39.0	40.0	39.0	36.8	33.5	33.5	31.9	31.4	31.4
87.5°	11.6	13.9	14.4	16.3	16.2	17.3	18.3	18.9	19.5	19.0	18.4
90°	3.9	6.7	9.5	12.3	16.3	21.5	26.7	31.8	37.0	36.5	36.0
92.5°	20.9	23.0	25.0	27.1	28.7	29.9	31.1	32.4	33.6	33.7	33.8
95°	57.3	59.7	62.0	64.4	65.8	66.3	66.7	67.2	67.7	67.7	67.7
97.5°	102.5	104.6	106.6	108.7	110.1	111.0	111.9	112.8	113.7	113.7	113.7
100°	136.2	138.0	139.9	141.8	143.1	143.7	144.5	145.2	145.9	145.9	145.9
102.5°	171.3	172.8	174.3	175.8	177.0	177.9	178.8	179.7	180.6	180.8	180.9
105°	228.0	228.7	229.4	230.1	230.7	231.1	231.6	232.1	232.6	233.0	233.5
107.5°	286.3	287.3	288.3	289.3	289.8	289.8	289.8	289.8	289.8	290.1	290.2
110°	323.8	325.2	326.7	328.1	328.8	328.8	328.8	328.8	328.8	328.8	328.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	364.4	365.8	367.3	368.7	369.2	369.1	368.9	368.7	368.5	367.9	367.4
115°	424.3	425.7	427.1	428.5	428.9	428.5	428.0	427.5	427.1	426.9	426.6
117.5°	484.4	486.2	488.1	490.0	490.3	488.9	487.6	486.3	485.0	484.5	483.9
120°	524.1	526.0	527.9	529.8	529.8	527.9	526.0	524.1	522.2	522.2	522.2
122.5°	560.8	563.1	565.3	567.6	568.1	566.8	565.5	564.1	562.8	562.2	561.7
125°	617.3	619.5	621.6	623.7	624.4	623.7	623.1	622.3	621.6	620.9	620.2
127.5°	673.1	675.8	678.5	681.2	682.1	681.3	680.4	679.6	678.7	677.8	677.0
130°	708.2	711.3	714.3	717.3	718.6	718.2	717.7	717.2	716.7	716.2	715.8
132.5°	746.5	749.0	751.5	754.0	755.3	755.4	755.5	755.5	755.6	754.6	753.6
135°	798.6	801.2	803.8	806.4	807.9	808.4	808.9	809.3	809.8	809.5	809.3
137.5°	852.9	855.0	857.1	859.2	860.6	861.2	861.9	862.4	863.1	862.9	862.7
140°	885.9	888.0	890.1	892.3	893.9	895.0	896.3	897.4	898.5	898.5	898.5
142.5°	919.7	921.9	924.0	926.1	927.5	928.3	929.1	929.9	930.7	930.9	931.1
145°	967.9	969.6	971.2	972.8	974.4	975.8	977.1	978.6	980.0	980.2	980.5
147.5°	1011.5	1013.5	1015.5	1017.5	1019.0	1019.9	1020.8	1021.7	1022.7	1023.2	1023.7
150°	1040.6	1042.0	1043.4	1044.8	1046.0	1046.9	1047.9	1048.8	1049.8	1050.4	1051.2
152.5°	1066.8	1068.2	1069.6	1071.1	1072.3	1073.4	1074.6	1075.7	1076.8	1077.7	1078.6
155°	1105.5	1106.1	1106.9	1107.6	1108.2	1109.0	1109.6	1110.4	1111.1	1112.2	1113.5
157.5°	1138.8	1139.3	1139.8	1140.2	1140.7	1141.1	1141.5	1141.9	1142.4	1143.9	1145.6
160°	1159.1	1159.6	1160.1	1160.5	1160.9	1161.1	1161.3	1161.6	1161.8	1163.2	1164.7
162.5°	1177.4	1177.5	1177.5	1177.6	1177.8	1178.0	1178.3	1178.5	1178.8	1180.3	1181.9
165°	1201.8	1201.5	1201.3	1201.0	1200.9	1200.9	1200.9	1200.9	1200.9	1202.6	1204.2
167.5°	1222.0	1221.3	1220.6	1219.9	1219.5	1219.4	1219.4	1219.4	1219.3	1221.0	1222.6
170°	1233.0	1232.3	1231.6	1230.9	1230.4	1230.2	1230.0	1229.7	1229.5	1231.1	1232.7
172.5°	1240.6	1239.9	1239.2	1238.5	1238.0	1237.8	1237.5	1237.3	1237.1	1238.8	1240.4
175°	1249.9	1249.2	1248.5	1247.8	1247.2	1246.8	1246.3	1245.8	1245.3	1247.0	1248.6
177.5°	1253.8	1253.3	1252.7	1252.1	1251.7	1251.3	1250.9	1250.6	1250.2	1251.3	1252.5
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1460.0	1466.1	1466.1	1467.0	1473.9	1473.0	1472.6
5°	1553.7	1562.9	1564.0	1573.8	1580.2	1578.1	1572.1
7.5°	1642.1	1659.2	1672.2	1679.4	1688.0	1693.3	1690.9
10°	1712.2	1737.1	1752.2	1762.5	1775.0	1784.2	1780.9
12.5°	1775.9	1805.5	1826.3	1843.9	1845.5	1857.3	1849.3
15°	1875.1	1906.4	1909.7	1922.6	1933.0	1931.9	1932.4
17.5°	1907.9	1917.9	1919.9	1920.3	1920.4	1916.6	1908.4
20°	1896.1	1892.4	1883.2	1876.2	1863.7	1862.1	1851.3
22.5°	1840.8	1828.8	1805.7	1790.5	1771.1	1766.0	1763.0
25°	1731.7	1705.2	1668.4	1633.2	1623.5	1604.6	1610.0
27.5°	1582.1	1540.8	1500.9	1472.3	1446.5	1418.1	1426.3
30°	1476.9	1430.4	1374.1	1330.8	1303.3	1276.2	1271.3
32.5°	1351.4	1283.2	1220.5	1182.3	1140.1	1123.0	1104.2
35°	1135.0	1068.4	1006.2	952.7	921.9	898.1	876.4
37.5°	940.4	863.7	813.5	770.1	747.9	734.3	737.7
40°	819.6	752.5	715.8	682.7	662.2	652.4	654.6
42.5°	721.8	671.6	641.3	618.6	604.1	598.8	597.5
45°	610.7	582.6	557.7	544.8	537.8	531.8	528.0
47.5°	535.0	512.1	498.1	490.3	484.2	478.1	478.0
50°	489.6	474.4	464.7	456.6	451.8	447.4	451.2
52.5°	454.9	441.2	431.4	424.1	422.3	418.4	418.3
55°	403.6	392.7	385.7	379.2	376.0	373.8	371.1
57.5°	356.9	346.6	340.1	336.0	329.8	327.6	326.8
60°	323.5	315.4	308.9	303.5	300.8	296.4	296.4
62.5°	292.8	284.7	278.6	274.5	270.0	268.3	268.8
65°	248.3	241.8	235.9	231.5	230.5	227.2	228.3
67.5°	207.4	203.1	196.8	194.4	192.4	190.6	189.3
70°	180.2	175.9	172.6	169.3	167.7	167.7	167.7
72.5°	157.2	152.1	150.1	145.9	146.9	145.2	143.5
75°	121.7	118.5	116.8	115.2	112.5	112.5	112.5
77.5°	89.6	88.6	86.7	85.0	84.3	83.7	84.0
80°	69.2	68.7	67.6	67.6	66.5	66.0	64.9
82.5°	53.2	51.9	51.2	50.7	50.5	50.4	50.2
85°	30.3	29.2	29.2	29.8	28.7	28.7	29.2
87.5°	18.8	18.7	18.3	18.3	18.8	18.4	18.4
90°	35.6	35.1	35.0	35.2	35.5	35.7	36.0
92.5°	33.9	34.0	34.1	34.1	34.2	34.2	34.2
95°	67.7	67.7	67.4	66.9	66.4	66.0	65.6
97.5°	113.7	113.7	113.7	113.7	113.7	113.6	113.6
100°	145.9	145.9	145.8	145.5	145.3	145.0	144.8
102.5°	181.2	181.3	181.3	181.1	180.8	180.6	180.3
105°	234.0	234.5	234.7	234.7	234.7	234.7	234.7
107.5°	290.4	290.7	290.2	289.1	288.0	286.9	285.8
110°	328.8	328.8	328.4	327.8	327.0	326.3	325.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	366.8	366.2	365.7	365.2	364.7	364.2	363.6
115°	426.4	426.2	425.7	425.0	424.3	423.5	422.9
117.5°	483.3	482.7	482.2	481.4	480.7	480.0	479.3
120°	522.2	522.2	521.9	521.1	520.5	519.8	519.1
122.5°	561.2	560.6	560.0	559.5	559.0	558.5	558.0
125°	619.5	618.8	618.3	618.1	617.8	617.6	617.3
127.5°	676.1	675.3	674.5	673.8	673.0	672.3	671.5
130°	715.3	714.9	714.2	713.2	712.3	711.3	710.4
132.5°	752.5	751.5	750.6	749.9	749.1	748.4	747.6
135°	809.1	808.9	808.4	807.6	807.0	806.2	805.5
137.5°	862.5	862.3	861.8	860.8	859.9	858.9	858.0
140°	898.5	898.5	898.1	897.2	896.3	895.3	894.4
142.5°	931.3	931.5	931.1	930.2	929.2	928.3	927.3
145°	980.7	980.9	980.6	979.7	978.7	977.8	976.8
147.5°	1024.3	1024.7	1024.6	1023.7	1022.8	1021.9	1021.0
150°	1051.9	1052.6	1052.6	1051.9	1051.2	1050.4	1049.8
152.5°	1079.5	1080.4	1080.4	1079.5	1078.6	1077.7	1076.8
155°	1114.6	1115.7	1116.0	1115.3	1114.6	1113.9	1113.2
157.5°	1147.1	1148.8	1149.0	1147.9	1146.7	1145.6	1144.4
160°	1166.0	1167.4	1167.7	1166.8	1165.8	1164.9	1163.9
162.5°	1183.5	1185.1	1185.4	1184.2	1183.1	1181.9	1180.9
165°	1205.8	1207.5	1207.7	1206.6	1205.4	1204.2	1203.1
167.5°	1224.3	1225.9	1226.1	1224.9	1223.7	1222.5	1221.2
170°	1234.4	1236.1	1236.2	1234.8	1233.4	1231.9	1230.5
172.5°	1242.0	1243.7	1243.7	1242.4	1241.0	1239.6	1238.1
175°	1250.3	1251.9	1252.1	1250.6	1249.2	1247.8	1246.3
177.5°	1253.6	1254.7	1254.7	1253.6	1252.5	1251.3	1250.2
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7

(END OF REPORT)