

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: P331838-930

Luminaire Tested: **S122RDIW-S865D1240U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331838-930
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: S122RDIW-S865D1240U930-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6198.5 lumens
Efficiency: N/A
Efficacy: 88.8 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

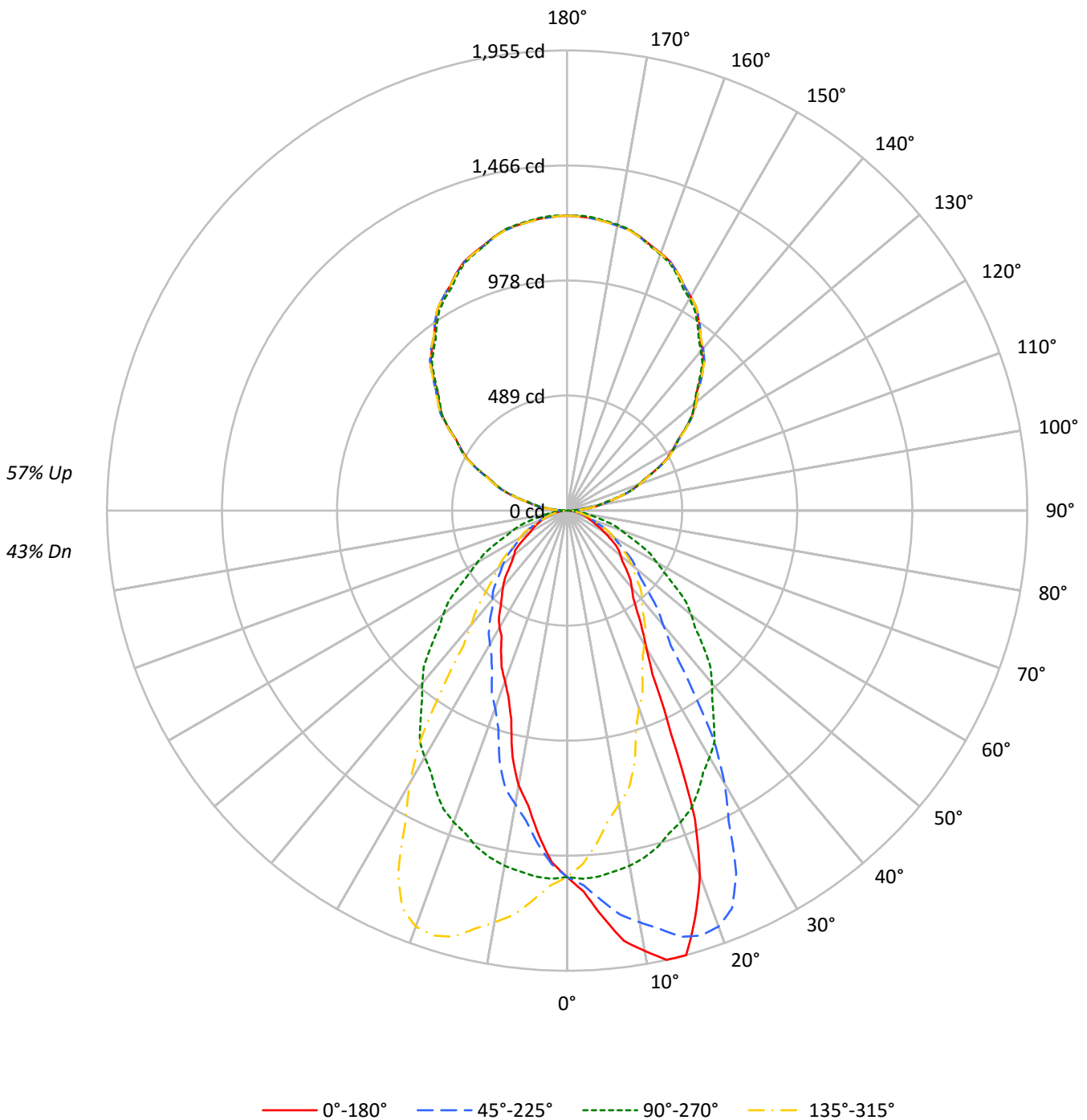
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	45	44	44	38
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38	33
3	82	73	66	60	74	67	61	56	56	52	48	46	43	40	37	35	33	29
4	75	65	57	52	68	60	53	48	50	46	42	42	38	35	33	31	29	25
5	69	58	50	45	63	54	47	42	45	40	37	38	34	31	30	28	26	23
6	64	52	45	39	58	49	42	37	41	36	32	34	31	28	28	25	23	20
7	59	48	40	35	54	44	37	33	38	33	29	32	28	25	26	23	21	18
8	55	43	36	31	51	40	34	29	35	29	26	29	25	22	24	21	19	17
9	51	40	33	28	47	37	31	26	32	27	23	27	23	20	22	19	17	15
10	48	37	30	25	44	34	28	24	29	25	21	25	21	19	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25137	25137	25137	25137
5°	28075	25293	22428	25293
10°	31147	25117	19441	25117
15°	32679	24749	15318	24749
20°	28331	24204	13254	24204
25°	18579	23457	11834	23457
30°	12506	22551	10711	22551
35°	10129	21409	9660	21409
40°	9008	20168	8939	20168
45°	8152	18712	7978	18712
50°	7420	17269	7390	17269
55°	6975	15671	6883	15671
60°	5835	14202	5767	14202
65°	4917	12894	5578	12894
70°	4546	11514	5264	11514
75°	4255	10025	4860	10025
80°	3924	8247	4333	8247
85°	3612	6502	3798	6502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	2.4
10°-20°	411.2	6.6
20°-30°	529.9	8.5
30°-40°	503.6	8.1
40°-50°	431.4	7.0
50°-60°	328.5	5.3
60°-70°	207.7	3.4
70°-80°	103.7	1.7
80°-90°	32.0	0.5
90°-100°	79.4	1.3
100°-110°	246.5	4.0
110°-120°	421.4	6.8
120°-130°	554.2	8.9
130°-140°	622.0	10.0
140°-150°	609.9	9.8
150°-160°	511.5	8.3
160°-170°	339.3	5.5
170°-180°	118.6	1.9
0°-30°	1088.7	17.6
0°-40°	1592.3	25.7
0°-60°	2352.3	37.9
0°-90°	2695.6	43.5
90°-120°	747.3	12.1
90°-150°	2533.4	40.9
90°-180°	3503.0	56.5
0°-180°	6198.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1557	1557	1557	1557	1557	
5°	1732	1561	1384	1561	1732	171
15°	1955	1481	916	1481	1955	527
25°	1043	1317	664	1317	1043	495
35°	514	1086	490	1086	514	329
45°	357	820	349	820	357	276
55°	248	557	244	557	248	217
65°	129	338	146	338	129	131
75°	68	161	78	161	68	72
85°	20	35	20	35	20	22
90°	36	1	36	1	36	16
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°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1620.1	1621.4	1622.7	1619.6	1619.6	1617.1	1611.4	1607.1	1595.0	1593.3	1593.3
5°	1732.2	1731.0	1733.2	1726.2	1716.4	1714.3	1704.1	1690.5	1676.4	1660.8	1657.5
7.5°	1843.6	1841.9	1837.6	1836.5	1829.0	1812.7	1796.1	1778.5	1755.1	1732.3	1720.8
10°	1899.8	1917.7	1906.9	1887.9	1891.7	1866.3	1852.8	1829.5	1810.0	1776.0	1768.4
12.5°	1955.3	1962.3	1958.8	1948.1	1943.3	1925.6	1907.3	1887.1	1851.1	1820.6	1793.9
15°	1955.0	1965.3	1968.0	1964.8	1967.5	1966.4	1956.6	1939.8	1908.5	1874.9	1845.8
17.5°	1810.7	1817.9	1835.6	1847.5	1862.7	1894.8	1910.6	1916.7	1912.0	1892.9	1872.3
20°	1648.9	1637.0	1686.7	1712.1	1733.7	1787.9	1834.4	1852.3	1880.9	1880.4	1874.9
22.5°	1419.4	1422.3	1469.5	1499.7	1562.8	1616.9	1670.0	1737.2	1792.6	1829.3	1850.7
25°	1042.9	1063.6	1110.6	1151.7	1222.1	1322.7	1414.1	1520.1	1620.2	1699.2	1774.3
27.5°	783.3	784.8	822.1	860.1	901.9	984.3	1099.4	1226.0	1368.7	1486.5	1621.9
30°	670.8	667.6	683.2	706.5	742.2	806.0	892.6	1017.0	1159.3	1336.7	1494.7
32.5°	591.2	591.3	603.2	620.4	650.0	693.1	752.4	853.5	987.9	1162.3	1347.5
35°	513.9	513.4	522.0	534.4	546.9	574.5	615.1	668.1	760.6	923.4	1112.7
37.5°	458.5	460.9	465.1	472.9	486.7	502.0	526.4	562.0	627.9	724.1	883.3
40°	427.4	428.4	434.4	440.9	449.0	460.9	480.9	509.6	557.7	634.5	750.8
42.5°	398.8	399.9	404.1	410.2	416.5	428.4	445.0	469.8	508.8	568.8	664.7
45°	357.0	357.0	360.9	363.5	370.6	381.4	394.9	415.5	442.5	486.9	550.7
47.5°	317.9	318.0	320.5	325.1	329.5	338.0	351.3	368.1	387.8	422.1	476.6
50°	295.4	295.9	297.5	301.3	304.0	311.6	321.9	336.5	357.0	383.5	429.0
52.5°	277.2	276.9	278.9	280.5	282.4	287.8	295.5	308.3	326.8	349.8	387.4
55°	247.8	245.6	248.8	251.5	253.2	255.4	259.7	267.7	283.5	303.0	331.1
57.5°	211.0	210.1	212.4	214.8	220.0	225.8	229.5	234.6	242.8	256.7	284.6
60°	180.7	180.7	185.6	187.2	193.1	200.7	208.3	212.6	220.7	229.9	250.5
62.5°	153.8	154.3	156.5	158.2	161.5	170.8	181.4	190.9	198.6	207.4	221.0
65°	128.7	129.8	129.8	130.9	133.1	135.3	139.6	147.2	160.7	173.1	183.4
67.5°	109.3	109.6	109.9	111.0	111.5	113.9	115.7	119.0	122.1	134.0	146.7
70°	96.3	97.9	97.3	98.5	99.0	100.0	102.2	103.9	108.8	111.5	119.0
72.5°	84.1	85.4	85.3	85.9	87.3	87.6	89.3	90.9	94.0	96.3	100.4
75°	68.2	67.6	68.2	69.2	69.8	70.4	70.4	72.5	74.1	76.3	79.0
77.5°	52.6	53.2	53.0	53.2	53.2	54.2	54.1	55.0	56.7	57.8	59.1
80°	42.2	42.7	42.2	42.7	43.3	43.8	43.3	43.8	45.4	46.6	46.6
82.5°	32.7	32.8	33.1	33.2	33.3	33.4	34.2	34.3	35.5	35.3	35.7
85°	19.5	18.9	18.9	18.9	19.5	20.0	19.5	19.5	20.0	20.0	20.0
87.5°	14.1	14.5	14.4	14.4	14.3	14.3	14.5	15.0	14.7	15.2	13.7
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°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1594.1	1590.6	1587.6	1579.8	1575.9	1567.2	1565.9	1565.5	1554.3	1543.4	1540.4
5°	1648.9	1640.2	1627.2	1612.1	1596.4	1580.1	1569.3	1560.6	1539.0	1518.5	1506.6
7.5°	1704.1	1685.4	1663.0	1634.3	1610.5	1583.6	1563.7	1545.8	1515.2	1485.7	1465.9
10°	1745.1	1714.8	1685.1	1645.6	1614.8	1584.5	1556.3	1532.0	1497.4	1458.4	1430.9
12.5°	1770.7	1737.3	1696.3	1657.7	1617.8	1579.2	1541.6	1510.3	1469.7	1429.5	1396.6
15°	1805.2	1769.4	1719.7	1664.5	1613.2	1562.8	1519.6	1480.6	1427.6	1379.4	1339.4
17.5°	1833.4	1784.3	1730.9	1667.0	1607.5	1543.6	1487.8	1438.1	1379.1	1321.0	1273.8
20°	1842.5	1793.8	1732.2	1668.3	1598.0	1522.8	1462.7	1408.7	1345.3	1282.1	1228.0
22.5°	1836.9	1799.0	1730.4	1654.0	1582.0	1503.3	1435.5	1372.7	1302.5	1238.0	1175.2
25°	1798.7	1785.7	1720.8	1637.4	1555.3	1463.9	1385.4	1316.7	1236.6	1167.4	1099.2
27.5°	1709.7	1737.6	1697.5	1608.7	1517.3	1419.3	1331.1	1252.9	1169.8	1091.8	1023.9
30°	1624.0	1688.3	1671.0	1588.8	1486.5	1390.2	1291.3	1209.6	1120.9	1040.8	973.7
32.5°	1506.7	1613.0	1629.9	1561.1	1455.4	1349.6	1245.9	1164.6	1072.0	987.6	922.2
35°	1320.0	1479.0	1552.0	1508.2	1402.2	1288.0	1180.9	1086.2	993.2	909.9	845.0
37.5°	1097.1	1313.8	1435.5	1438.6	1341.2	1222.5	1106.0	1011.9	916.7	834.9	764.7
40°	952.6	1187.4	1345.9	1381.0	1298.9	1170.6	1052.7	956.9	863.9	783.8	703.3
42.5°	822.8	1056.7	1251.6	1312.7	1247.3	1120.0	1001.7	901.6	811.1	735.4	653.1
45°	665.4	869.8	1084.6	1193.9	1157.6	1039.8	914.8	819.5	734.6	669.2	590.2
47.5°	561.3	705.4	913.2	1061.0	1060.4	952.8	829.8	738.7	659.8	598.5	534.6
50°	502.0	627.5	803.3	971.0	985.0	894.7	777.9	687.5	614.0	549.6	498.2
52.5°	448.7	552.2	710.3	871.1	911.1	832.8	719.5	636.1	564.7	505.5	461.5
55°	379.2	459.3	579.4	729.8	790.4	735.2	634.5	556.7	498.8	449.0	411.2
57.5°	320.8	380.8	477.2	598.3	668.9	634.1	551.1	487.9	438.3	393.3	363.4
60°	284.0	333.2	414.9	516.1	593.9	569.6	498.8	439.8	397.6	358.7	330.5
62.5°	249.4	291.7	361.7	443.8	515.2	505.2	447.3	397.8	360.9	325.3	301.5
65°	200.7	231.5	286.2	350.6	407.9	412.8	371.1	337.5	304.6	276.5	255.4
67.5°	159.8	179.9	218.4	272.6	315.6	330.9	305.5	279.9	253.7	232.0	213.7
70°	134.7	150.9	179.0	222.9	262.4	278.6	264.0	243.9	221.3	203.4	187.7
72.5°	109.2	125.0	145.7	177.9	211.7	229.3	224.2	209.8	191.4	176.6	161.8
75°	82.3	87.1	101.2	122.8	149.3	164.4	168.3	160.7	146.0	134.7	126.0
77.5°	60.8	63.8	70.4	81.8	99.1	112.6	118.1	117.2	107.2	100.6	92.5
80°	48.7	50.3	53.6	58.5	71.4	85.0	88.7	88.7	81.7	79.0	70.8
82.5°	37.0	38.2	40.1	42.8	48.9	60.7	64.9	65.8	61.3	57.8	51.4
85°	21.1	20.5	21.6	23.2	24.4	27.6	34.1	35.1	34.1	29.8	28.1
87.5°	12.7	12.1	11.1	9.8	9.7	9.5	11.2	12.8	11.6	10.8	10.6
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: P331838-930

CATALOG NUMBER: S122RDIW-S865D1240U930-4F0-1E-UDD-A1

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: P331838-930

CATALOG NUMBER: S122RDIW-S865D1240U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1534.8	1531.8	1526.2	1517.5	1512.3	1503.2	1497.1	1500.6	1501.5	1500.6	1499.7
5°	1493.5	1482.2	1466.6	1451.4	1437.3	1422.2	1413.5	1409.7	1402.2	1397.8	1395.7
7.5°	1443.7	1424.2	1401.9	1375.6	1353.2	1329.7	1317.7	1311.7	1296.2	1287.8	1280.4
10°	1406.5	1375.7	1353.5	1318.8	1297.8	1266.9	1245.9	1246.3	1225.2	1213.3	1204.7
12.5°	1365.4	1331.5	1294.6	1263.5	1234.1	1209.3	1184.0	1173.6	1151.3	1139.8	1116.4
15°	1297.2	1257.8	1218.8	1176.6	1146.8	1108.4	1071.6	1026.7	990.5	959.1	950.5
17.5°	1222.8	1173.9	1134.8	1085.2	1034.3	969.7	927.1	901.0	879.1	862.6	850.3
20°	1171.7	1121.9	1080.3	1005.7	936.9	893.2	861.8	841.7	819.0	801.2	791.4
22.5°	1118.0	1066.1	1009.3	926.0	872.5	837.3	809.3	786.4	770.9	757.0	748.1
25°	1041.9	985.0	891.5	834.1	790.8	754.1	734.6	720.6	704.3	685.4	676.7
27.5°	961.4	871.1	803.9	761.2	719.9	696.0	678.5	657.5	642.9	634.5	625.4
30°	901.2	810.9	758.4	711.9	682.7	656.2	635.6	623.7	609.7	595.1	589.1
32.5°	834.1	762.0	711.7	672.9	643.3	620.7	604.5	585.2	575.0	566.1	553.6
35°	750.8	696.2	650.2	618.9	590.8	572.3	553.4	542.0	523.7	516.1	511.2
37.5°	680.3	632.9	598.6	565.5	543.2	522.9	511.3	493.3	485.3	474.7	464.5
40°	640.5	593.9	561.0	533.9	509.1	493.9	479.3	464.7	452.8	447.9	435.5
42.5°	599.8	562.0	529.0	499.3	482.7	466.6	448.2	437.4	425.1	417.2	409.5
45°	543.6	510.1	482.0	457.6	439.3	422.5	410.6	392.7	385.7	370.0	363.5
47.5°	494.3	463.2	436.3	413.2	395.3	384.3	366.9	352.9	341.7	332.1	323.7
50°	459.3	433.3	407.3	386.8	370.6	354.9	337.0	330.0	312.7	307.8	303.0
52.5°	427.2	402.6	378.8	358.7	342.4	327.2	311.4	302.3	290.6	285.8	282.2
55°	382.5	358.7	335.9	318.0	301.8	286.2	276.5	265.1	259.7	255.8	251.5
57.5°	337.5	316.0	298.6	280.5	264.2	251.8	240.5	233.7	228.0	223.1	217.9
60°	308.9	288.3	272.6	255.8	239.1	228.9	220.1	212.1	205.5	198.0	195.8
62.5°	278.6	260.7	246.2	229.9	215.3	205.9	197.6	190.0	182.2	171.1	168.1
65°	236.9	222.9	207.7	194.2	181.2	172.0	160.1	151.5	148.2	147.2	146.6
67.5°	199.3	186.0	173.0	159.1	147.3	138.8	132.7	131.4	129.1	128.5	127.0
70°	174.1	161.8	148.8	135.7	124.4	122.8	120.7	118.5	115.8	114.7	113.6
72.5°	151.6	138.8	125.8	115.4	110.6	108.5	106.3	104.2	102.3	101.3	100.6
75°	116.3	104.4	95.7	92.0	89.3	87.6	84.4	82.8	81.7	80.1	79.5
77.5°	83.7	77.0	73.1	70.7	67.8	66.1	64.2	62.6	61.5	61.1	60.3
80°	63.8	60.6	57.9	54.6	53.6	51.4	50.9	49.2	49.7	48.2	48.2
82.5°	49.6	45.4	43.1	41.7	40.6	38.8	38.3	37.5	37.7	36.4	36.4
85°	25.4	24.4	23.2	22.2	22.2	20.5	21.1	20.5	20.5	19.5	18.9
87.5°	10.7	11.1	11.3	12.2	13.3	13.9	13.8	13.3	13.2	13.0	12.6
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



TEST NUMBER: P331838-930

CATALOG NUMBER: S122RDIW-S865D1240U930-4F0-1E-UDD-A1

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



TEST NUMBER: P331838-930

CATALOG NUMBER: S122RDIW-S865D1240U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1495.0	1495.8	1494.5	1495.4	1494.5	1495.8	1495.0	1499.7	1500.6	1501.5	1500.6
5°	1392.9	1386.5	1385.4	1383.8	1385.4	1386.5	1392.9	1395.7	1397.8	1402.2	1409.7
7.5°	1271.1	1270.2	1267.5	1263.7	1267.5	1270.2	1271.1	1280.4	1287.8	1296.2	1311.7
10°	1192.8	1190.1	1189.6	1185.8	1189.6	1190.1	1192.8	1204.7	1213.3	1225.2	1246.3
12.5°	1101.1	1083.6	1081.8	1072.4	1081.8	1083.6	1101.1	1116.4	1139.8	1151.3	1173.6
15°	937.5	934.3	923.4	916.4	923.4	934.3	937.5	950.5	959.1	990.5	1026.7
17.5°	844.0	833.4	830.1	828.5	830.1	833.4	844.0	850.3	862.6	879.1	901.0
20°	783.8	774.1	772.5	771.4	772.5	774.1	783.8	791.4	801.2	819.0	841.7
22.5°	742.3	732.1	727.9	724.6	727.9	732.1	742.3	748.1	757.0	770.9	786.4
25°	671.3	667.6	665.4	664.3	665.4	667.6	671.3	676.7	685.4	704.3	720.6
27.5°	615.8	607.5	605.8	603.1	605.8	607.5	615.8	625.4	634.5	642.9	657.5
30°	584.2	581.6	577.7	574.5	577.7	581.6	584.2	589.1	595.1	609.7	623.7
32.5°	547.0	544.8	541.4	539.9	541.4	544.8	547.0	553.6	566.1	575.0	585.2
35°	505.8	498.2	495.0	490.1	495.0	498.2	505.8	511.2	516.1	523.7	542.0
37.5°	462.2	458.2	453.6	455.3	453.6	458.2	462.2	464.5	474.7	485.3	493.3
40°	428.4	425.7	424.7	424.1	424.7	425.7	428.4	435.5	447.9	452.8	464.7
42.5°	401.6	394.1	391.3	391.2	391.3	394.1	401.6	409.5	417.2	425.1	437.4
45°	360.9	353.8	348.9	349.4	348.9	353.8	360.9	363.5	370.0	385.7	392.7
47.5°	319.0	318.9	315.8	316.8	315.8	318.9	319.0	323.7	332.1	341.7	352.9
50°	299.1	295.9	293.8	294.2	293.8	295.9	299.1	303.0	307.8	312.7	330.0
52.5°	280.1	277.3	275.6	277.9	275.6	277.3	280.1	282.2	285.8	290.6	302.3
55°	248.8	245.6	245.1	244.5	245.1	245.6	248.8	251.5	255.8	259.7	265.1
57.5°	213.9	211.7	208.5	207.1	208.5	211.7	213.9	217.9	223.1	228.0	233.7
60°	188.8	184.5	179.0	178.6	179.0	184.5	188.8	195.8	198.0	205.5	212.1
62.5°	165.8	165.0	163.9	163.8	163.9	165.0	165.8	168.1	171.1	182.2	190.0
65°	145.5	145.0	145.5	146.0	145.5	145.0	145.5	146.6	147.2	148.2	151.5
67.5°	126.8	125.8	124.8	125.3	124.8	125.8	126.8	127.0	128.5	129.1	131.4
70°	112.5	111.9	111.5	111.5	111.5	111.9	112.5	113.6	114.7	115.8	118.5
72.5°	98.7	98.6	98.0	97.6	98.0	98.6	98.7	100.6	101.3	102.3	104.2
75°	79.0	77.9	77.9	77.9	77.9	77.9	79.0	79.5	80.1	81.7	82.8
77.5°	60.2	59.6	59.1	58.6	59.1	59.6	60.2	60.3	61.1	61.5	62.6
80°	47.6	47.0	46.6	46.6	46.6	47.0	47.6	48.2	48.2	49.7	49.2
82.5°	36.4	35.8	35.7	35.3	35.7	35.8	36.4	36.4	36.4	37.7	37.5
85°	19.5	20.0	19.5	20.5	19.5	20.0	19.5	18.9	19.5	20.5	20.5
87.5°	12.6	12.3	12.8	12.4	12.8	12.3	12.6	12.6	13.0	13.2	13.3
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: P331838-930

CATALOG NUMBER: S122RDIW-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: P331838-930

CATALOG NUMBER: S122RDIW-S865D1240U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1497.1	1503.2	1512.3	1517.5	1526.2	1531.8	1534.8	1540.4	1543.4	1554.3	1565.5
5°	1413.5	1422.2	1437.3	1451.4	1466.6	1482.2	1493.5	1506.6	1518.5	1539.0	1560.6
7.5°	1317.7	1329.7	1353.2	1375.6	1401.9	1424.2	1443.7	1465.9	1485.7	1515.2	1545.8
10°	1245.9	1266.9	1297.8	1318.8	1353.5	1375.7	1406.5	1430.9	1458.4	1497.4	1532.0
12.5°	1184.0	1209.3	1234.1	1263.5	1294.6	1331.5	1365.4	1396.6	1429.5	1469.7	1510.3
15°	1071.6	1108.4	1146.8	1176.6	1218.8	1257.8	1297.2	1339.4	1379.4	1427.6	1480.6
17.5°	927.1	969.7	1034.3	1085.2	1134.8	1173.9	1222.8	1273.8	1321.0	1379.1	1438.1
20°	861.8	893.2	936.9	1005.7	1080.3	1121.9	1171.7	1228.0	1282.1	1345.3	1408.7
22.5°	809.3	837.3	872.5	926.0	1009.3	1066.1	1118.0	1175.2	1238.0	1302.5	1372.7
25°	734.6	754.1	790.8	834.1	891.5	985.0	1041.9	1099.2	1167.4	1236.6	1316.7
27.5°	678.5	696.0	719.9	761.2	803.9	871.1	961.4	1023.9	1091.8	1169.8	1252.9
30°	635.6	656.2	682.7	711.9	758.4	810.9	901.2	973.7	1040.8	1120.9	1209.6
32.5°	604.5	620.7	643.3	672.9	711.7	762.0	834.1	922.2	987.6	1072.0	1164.6
35°	553.4	572.3	590.8	618.9	650.2	696.2	750.8	845.0	909.9	993.2	1086.2
37.5°	511.3	522.9	543.2	565.5	598.6	632.9	680.3	764.7	834.9	916.7	1011.9
40°	479.3	493.9	509.1	533.9	561.0	593.9	640.5	703.3	783.8	863.9	956.9
42.5°	448.2	466.6	482.7	499.3	529.0	562.0	599.8	653.1	735.4	811.1	901.6
45°	410.6	422.5	439.3	457.6	482.0	510.1	543.6	590.2	669.2	734.6	819.5
47.5°	366.9	384.3	395.3	413.2	436.3	463.2	494.3	534.6	598.5	659.8	738.7
50°	337.0	354.9	370.6	386.8	407.3	433.3	459.3	498.2	549.6	614.0	687.5
52.5°	311.4	327.2	342.4	358.7	378.8	402.6	427.2	461.5	505.5	564.7	636.1
55°	276.5	286.2	301.8	318.0	335.9	358.7	382.5	411.2	449.0	498.8	556.7
57.5°	240.5	251.8	264.2	280.5	298.6	316.0	337.5	363.4	393.3	438.3	487.9
60°	220.1	228.9	239.1	255.8	272.6	288.3	308.9	330.5	358.7	397.6	439.8
62.5°	197.6	205.9	215.3	229.9	246.2	260.7	278.6	301.5	325.3	360.9	397.8
65°	160.1	172.0	181.2	194.2	207.7	222.9	236.9	255.4	276.5	304.6	337.5
67.5°	132.7	138.8	147.3	159.1	173.0	186.0	199.3	213.7	232.0	253.7	279.9
70°	120.7	122.8	124.4	135.7	148.8	161.8	174.1	187.7	203.4	221.3	243.9
72.5°	106.3	108.5	110.6	115.4	125.8	138.8	151.6	161.8	176.6	191.4	209.8
75°	84.4	87.6	89.3	92.0	95.7	104.4	116.3	126.0	134.7	146.0	160.7
77.5°	64.2	66.1	67.8	70.7	73.1	77.0	83.7	92.5	100.6	107.2	117.2
80°	50.9	51.4	53.6	54.6	57.9	60.6	63.8	70.8	79.0	81.7	88.7
82.5°	38.3	38.8	40.6	41.7	43.1	45.4	49.6	51.4	57.8	61.3	65.8
85°	21.1	20.5	22.2	22.2	23.2	24.4	25.4	28.1	29.8	34.1	35.1
87.5°	13.8	13.9	13.3	12.2	11.3	11.1	10.7	10.6	10.8	11.6	12.8
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



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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°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1565.9	1567.2	1575.9	1579.8	1587.6	1590.6	1594.1	1593.3	1593.3	1595.0	1607.1
5°	1569.3	1580.1	1596.4	1612.1	1627.2	1640.2	1648.9	1657.5	1660.8	1676.4	1690.5
7.5°	1563.7	1583.6	1610.5	1634.3	1663.0	1685.4	1704.1	1720.8	1732.3	1755.1	1778.5
10°	1556.3	1584.5	1614.8	1645.6	1685.1	1714.8	1745.1	1768.4	1776.0	1810.0	1829.5
12.5°	1541.6	1579.2	1617.8	1657.7	1696.3	1737.3	1770.7	1793.9	1820.6	1851.1	1887.1
15°	1519.6	1562.8	1613.2	1664.5	1719.7	1769.4	1805.2	1845.8	1874.9	1908.5	1939.8
17.5°	1487.8	1543.6	1607.5	1667.0	1730.9	1784.3	1833.4	1872.3	1892.9	1912.0	1916.7
20°	1462.7	1522.8	1598.0	1668.3	1732.2	1793.8	1842.5	1874.9	1880.4	1880.9	1852.3
22.5°	1435.5	1503.3	1582.0	1654.0	1730.4	1799.0	1836.9	1850.7	1829.3	1792.6	1737.2
25°	1385.4	1463.9	1555.3	1637.4	1720.8	1785.7	1798.7	1774.3	1699.2	1620.2	1520.1
27.5°	1331.1	1419.3	1517.3	1608.7	1697.5	1737.6	1709.7	1621.9	1486.5	1368.7	1226.0
30°	1291.3	1390.2	1486.5	1588.8	1671.0	1688.3	1624.0	1494.7	1336.7	1159.3	1017.0
32.5°	1245.9	1349.6	1455.4	1561.1	1629.9	1613.0	1506.7	1347.5	1162.3	987.9	853.5
35°	1180.9	1288.0	1402.2	1508.2	1552.0	1479.0	1320.0	1112.7	923.4	760.6	668.1
37.5°	1106.0	1222.5	1341.2	1438.6	1435.5	1313.8	1097.1	883.3	724.1	627.9	562.0
40°	1052.7	1170.6	1298.9	1381.0	1345.9	1187.4	952.6	750.8	634.5	557.7	509.6
42.5°	1001.7	1120.0	1247.3	1312.7	1251.6	1056.7	822.8	664.7	568.8	508.8	469.8
45°	914.8	1039.8	1157.6	1193.9	1084.6	869.8	665.4	550.7	486.9	442.5	415.5
47.5°	829.8	952.8	1060.4	1061.0	913.2	705.4	561.3	476.6	422.1	387.8	368.1
50°	777.9	894.7	985.0	971.0	803.3	627.5	502.0	429.0	383.5	357.0	336.5
52.5°	719.5	832.8	911.1	871.1	710.3	552.2	448.7	387.4	349.8	326.8	308.3
55°	634.5	735.2	790.4	729.8	579.4	459.3	379.2	331.1	303.0	283.5	267.7
57.5°	551.1	634.1	668.9	598.3	477.2	380.8	320.8	284.6	256.7	242.8	234.6
60°	498.8	569.6	593.9	516.1	414.9	333.2	284.0	250.5	229.9	220.7	212.6
62.5°	447.3	505.2	515.2	443.8	361.7	291.7	249.4	221.0	207.4	198.6	190.9
65°	371.1	412.8	407.9	350.6	286.2	231.5	200.7	183.4	173.1	160.7	147.2
67.5°	305.5	330.9	315.6	272.6	218.4	179.9	159.8	146.7	134.0	122.1	119.0
70°	264.0	278.6	262.4	222.9	179.0	150.9	134.7	119.0	111.5	108.8	103.9
72.5°	224.2	229.3	211.7	177.9	145.7	125.0	109.2	100.4	96.3	94.0	90.9
75°	168.3	164.4	149.3	122.8	101.2	87.1	82.3	79.0	76.3	74.1	72.5
77.5°	118.1	112.6	99.1	81.8	70.4	63.8	60.8	59.1	57.8	56.7	55.0
80°	88.7	85.0	71.4	58.5	53.6	50.3	48.7	46.6	46.6	45.4	43.8
82.5°	64.9	60.7	48.9	42.8	40.1	38.2	37.0	35.7	35.3	35.5	34.3
85°	34.1	27.6	24.4	23.2	21.6	20.5	21.1	20.0	20.0	20.0	19.5
87.5°	11.2	9.5	9.7	9.8	11.1	12.1	12.7	13.7	15.2	14.7	15.0
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°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1611.4	1617.1	1619.6	1619.6	1622.7	1621.4	1620.1
5°	1704.1	1714.3	1716.4	1726.2	1733.2	1731.0	1732.2
7.5°	1796.1	1812.7	1829.0	1836.5	1837.6	1841.9	1843.6
10°	1852.8	1866.3	1891.7	1887.9	1906.9	1917.7	1899.8
12.5°	1907.3	1925.6	1943.3	1948.1	1958.8	1962.3	1955.3
15°	1956.6	1966.4	1967.5	1964.8	1968.0	1965.3	1955.0
17.5°	1910.6	1894.8	1862.7	1847.5	1835.6	1817.9	1810.7
20°	1834.4	1787.9	1733.7	1712.1	1686.7	1637.0	1648.9
22.5°	1670.0	1616.9	1562.8	1499.7	1469.5	1422.3	1419.4
25°	1414.1	1322.7	1222.1	1151.7	1110.6	1063.6	1042.9
27.5°	1099.4	984.3	901.9	860.1	822.1	784.8	783.3
30°	892.6	806.0	742.2	706.5	683.2	667.6	670.8
32.5°	752.4	693.1	650.0	620.4	603.2	591.3	591.2
35°	615.1	574.5	546.9	534.4	522.0	513.4	513.9
37.5°	526.4	502.0	486.7	472.9	465.1	460.9	458.5
40°	480.9	460.9	449.0	440.9	434.4	428.4	427.4
42.5°	445.0	428.4	416.5	410.2	404.1	399.9	398.8
45°	394.9	381.4	370.6	363.5	360.9	357.0	357.0
47.5°	351.3	338.0	329.5	325.1	320.5	318.0	317.9
50°	321.9	311.6	304.0	301.3	297.5	295.9	295.4
52.5°	295.5	287.8	282.4	280.5	278.9	276.9	277.2
55°	259.7	255.4	253.2	251.5	248.8	245.6	247.8
57.5°	229.5	225.8	220.0	214.8	212.4	210.1	211.0
60°	208.3	200.7	193.1	187.2	185.6	180.7	180.7
62.5°	181.4	170.8	161.5	158.2	156.5	154.3	153.8
65°	139.6	135.3	133.1	130.9	129.8	129.8	128.7
67.5°	115.7	113.9	111.5	111.0	109.9	109.6	109.3
70°	102.2	100.0	99.0	98.5	97.3	97.9	96.3
72.5°	89.3	87.6	87.3	85.9	85.3	85.4	84.1
75°	70.4	70.4	69.8	69.2	68.2	67.6	68.2
77.5°	54.1	54.2	53.2	53.2	53.0	53.2	52.6
80°	43.3	43.8	43.3	42.7	42.2	42.7	42.2
82.5°	34.2	33.4	33.3	33.2	33.1	32.8	32.7
85°	19.5	20.0	19.5	18.9	18.9	18.9	19.5
87.5°	14.5	14.3	14.3	14.4	14.4	14.5	14.1
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)