

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: P331402-935

Luminaire Tested: **SA2XXDIP-C865D925U935-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331402-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C865D925U935-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 925 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

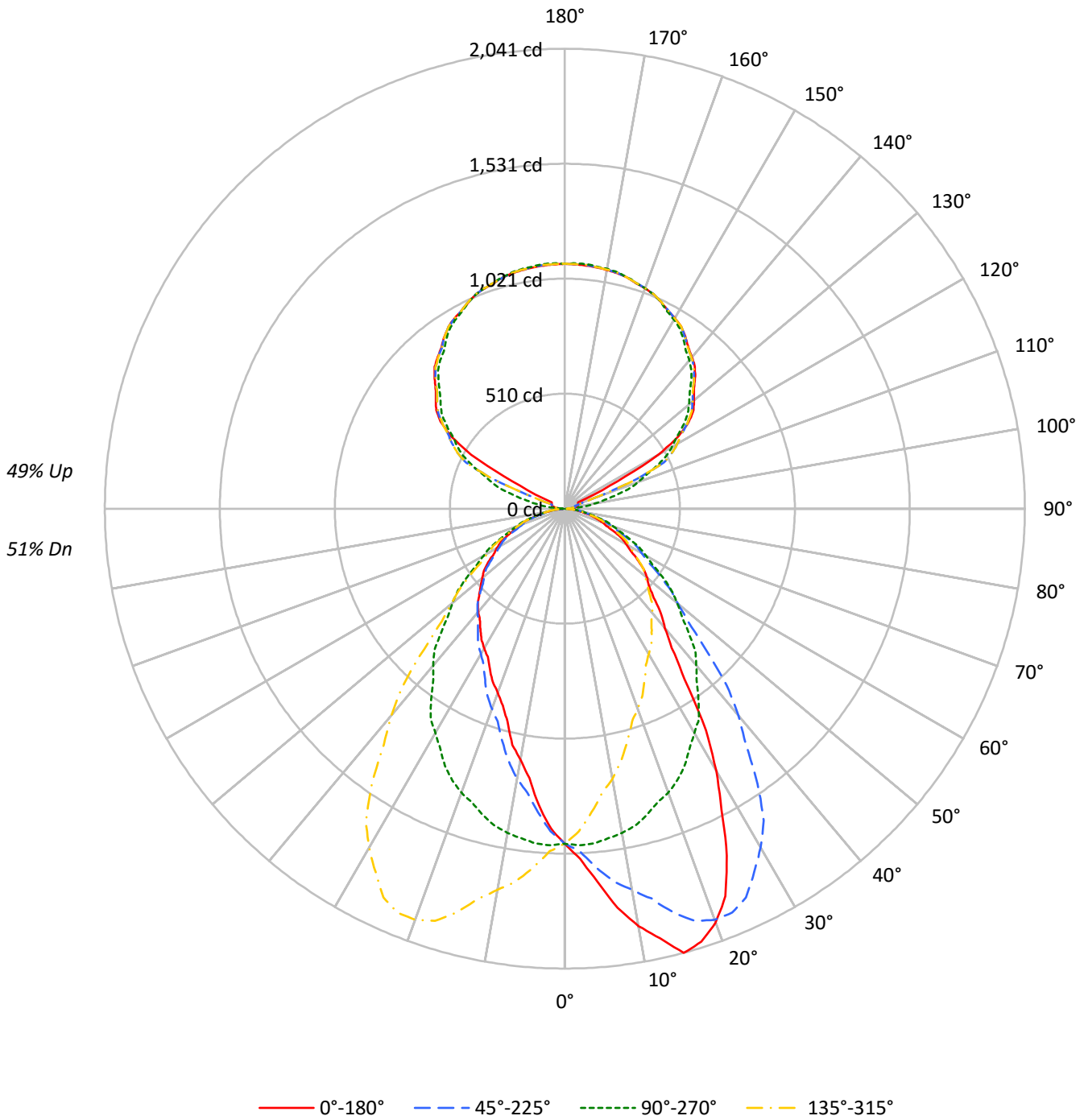
Lumens per Lamp: N/A  
Luminaire Lumens: 6467.0 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 60.5  
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	99	99	99	99	84	84	84	70	70	70	57	57	57	51				51
1	98	94	91	87	91	87	84	81	74	72	70	62	60	59	51	50	49				44	
2	90	83	77	72	83	77	72	67	66	62	59	55	52	50	45	44	42				37	
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36				32	
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32				28	
5	70	58	50	45	64	54	47	42	47	41	37	40	36	33	33	30	28				25	
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25				22	
7	60	48	40	34	55	45	38	33	39	33	29	33	29	26	28	25	22				20	
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	23	20				18	
9	52	40	32	27	48	37	31	26	32	27	23	28	24	21	24	21	18				16	
10	48	36	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17				15	

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

	0°	90°	180°	270°
0°	24001	24001	24001	24001
5°	26909	24159	21409	24159
10°	30836	23961	18528	23961
15°	34111	23520	16368	23520
20°	33593	23048	14921	23048
25°	30289	22422	14004	22422
30°	25031	21420	13336	21420
35°	18242	20371	12861	20371
40°	14570	19134	12596	19134
45°	12732	17701	12237	17701
50°	11969	16317	11997	16317
55°	11032	14908	11674	14908
60°	10111	13411	11179	13411
65°	9211	12069	10693	12069
70°	8360	10763	9980	10763
75°	7411	9301	8840	9301
80°	6369	7699	7113	7699
85°	5706	5706	4224	5706



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.6	2.2
10°-20°	411.6	6.4
20°-30°	597.3	9.2
30°-40°	630.3	9.7
40°-50°	558.1	8.6
50°-60°	445.4	6.9
60°-70°	302.7	4.7
70°-80°	155.2	2.4
80°-90°	40.1	0.6
90°-100°	36.2	0.6
100°-110°	132.9	2.1
110°-120°	355.3	5.5
120°-130°	586.6	9.1
130°-140°	623.8	9.6
140°-150°	579.8	9.0
150°-160°	466.2	7.2
160°-170°	300.4	4.6
170°-180°	103.4	1.6
0°-30°	1150.5	17.8
0°-40°	1780.8	27.5
0°-60°	2784.3	43.1
0°-90°	3282.3	50.8
90°-120°	524.5	8.1
90°-150°	2314.7	35.8
90°-180°	3185.0	49.3
0°-180°	6467.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1486	1486	1486	1486	1486	
5°	1660	1491	1321	1491	1660	166
15°	2041	1407	979	1407	2041	563
25°	1700	1259	786	1259	1700	768
35°	926	1034	652	1034	926	602
45°	558	775	536	775	558	438
55°	392	530	415	530	392	351
65°	241	316	280	316	241	240
75°	119	149	142	149	119	127
85°	31	31	23	31	31	34
90°	21	1	21	1	21	11
95°	34	51	34	51	34	32
105°	60	239	60	239	60	62
115°	64	452	64	452	64	162
125°	672	639	672	639	672	582
135°	817	791	817	791	817	630
145°	932	918	932	918	932	583
155°	1011	1010	1011	1010	1011	467
165°	1062	1065	1062	1065	1062	300
175°	1083	1089	1083	1089	1083	103
180°	1087	1087	1087	1087	1087	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1555.1	1555.6	1556.5	1549.2	1548.3	1548.3	1541.9	1536.4	1530.0	1521.3	1522.2
5°	1660.3	1666.6	1668.8	1662.0	1651.7	1650.5	1640.8	1624.8	1610.0	1597.9	1589.4
7.5°	1785.7	1788.2	1782.6	1773.6	1765.9	1752.2	1734.1	1716.5	1691.7	1669.0	1652.0
10°	1880.8	1884.2	1874.5	1861.3	1850.5	1834.4	1808.2	1781.3	1748.8	1717.4	1692.2
12.5°	1953.0	1961.4	1949.0	1947.2	1928.6	1906.7	1875.4	1861.8	1816.0	1772.2	1745.2
15°	2040.7	2040.1	2041.3	2030.4	2016.7	2013.3	1980.2	1944.2	1879.6	1853.9	1809.4
17.5°	2015.3	2024.0	2028.1	2027.9	2027.6	2025.4	2014.8	1992.1	1959.7	1918.0	1866.6
20°	1955.1	1966.4	1968.2	1981.3	1988.7	1998.5	2002.4	1996.1	1976.2	1941.3	1896.8
22.5°	1861.8	1865.0	1870.4	1890.8	1906.9	1931.3	1944.0	1965.1	1957.4	1940.4	1903.2
25°	1700.2	1694.5	1714.5	1724.8	1762.0	1800.8	1828.8	1859.6	1887.1	1903.6	1892.7
27.5°	1506.2	1497.6	1527.6	1554.9	1585.0	1627.1	1670.8	1722.3	1765.1	1818.7	1837.1
30°	1342.6	1347.7	1376.3	1405.4	1451.1	1510.5	1559.7	1616.3	1677.4	1737.3	1779.1
32.5°	1166.1	1185.9	1204.0	1248.6	1288.9	1355.1	1427.1	1497.9	1574.1	1642.3	1706.8
35°	925.5	948.4	973.5	1006.1	1062.6	1128.3	1198.6	1294.0	1398.0	1491.2	1567.7
37.5°	779.0	775.4	789.8	813.3	859.1	912.1	993.1	1087.4	1209.7	1319.1	1427.1
40°	691.3	689.0	699.3	721.0	755.9	794.7	865.6	948.4	1062.0	1195.8	1324.3
42.5°	630.9	632.3	638.0	653.3	677.3	709.2	762.2	832.8	936.9	1062.7	1200.9
45°	557.6	561.6	567.9	575.3	589.0	615.3	645.0	695.3	777.6	882.7	1018.6
47.5°	504.8	504.9	511.3	517.8	526.0	540.8	565.0	596.6	654.6	740.2	857.1
50°	476.5	472.5	477.1	482.2	490.8	501.0	517.0	546.7	585.6	654.7	752.4
52.5°	441.8	441.9	446.0	447.9	455.6	465.9	480.4	501.0	536.2	590.3	670.6
55°	391.9	394.8	397.1	400.5	407.3	414.7	426.2	439.9	467.4	507.9	567.3
57.5°	345.1	345.9	348.3	354.8	359.1	366.0	376.9	389.3	407.1	437.1	481.8
60°	313.1	313.1	317.6	320.5	326.2	333.0	341.6	353.6	369.6	394.2	430.2
62.5°	283.9	283.4	285.2	289.9	294.2	300.7	309.2	319.3	334.4	356.3	385.9
65°	241.1	240.0	243.4	244.5	249.1	255.4	262.3	273.1	285.1	301.1	327.4
67.5°	199.9	201.3	203.2	205.3	207.8	214.5	219.0	226.7	236.9	250.1	267.9
70°	177.1	177.1	177.1	178.8	182.3	185.7	190.3	196.6	206.2	217.7	233.7
72.5°	151.5	153.3	155.2	154.1	158.5	160.6	166.0	169.5	178.8	186.1	200.3
75°	118.8	118.8	118.8	121.7	123.4	125.1	128.5	132.0	136.6	145.7	153.1
77.5°	88.7	88.4	89.0	89.7	91.5	93.6	94.6	97.7	101.9	106.2	112.4
80°	68.5	69.7	70.3	71.4	71.4	72.6	73.1	77.1	80.0	82.8	86.9
82.5°	53.0	53.2	53.4	53.6	54.1	54.8	56.2	57.5	58.5	60.9	64.0
85°	30.8	30.3	30.3	31.4	30.8	30.8	32.0	33.1	33.1	33.7	35.4
87.5°	16.1	16.1	16.4	15.9	15.8	16.2	16.0	15.4	15.7	15.9	16.1
90°	21.3	20.9	20.5	20.1	19.8	19.2	18.3	17.5	16.6	15.8	14.3
92.5°	21.3	21.0	20.8	20.6	20.4	20.1	19.6	19.1	18.7	18.3	17.6
95°	33.8	34.0	34.2	34.4	34.5	34.2	33.3	32.4	31.5	30.7	29.4
97.5°	45.1	44.9	44.7	44.5	44.3	43.8	43.1	42.4	41.8	41.1	38.2
100°	52.7	52.3	52.0	51.7	51.3	50.5	49.0	47.6	46.2	44.9	41.8
102.5°	56.5	56.0	55.4	55.0	54.5	53.4	51.6	49.7	47.9	46.1	40.9
105°	59.8	59.1	58.4	57.7	57.0	55.6	53.7	51.8	49.9	48.0	45.7
107.5°	61.5	60.8	60.1	59.4	58.7	59.3	61.3	63.2	65.2	67.2	70.3
110°	62.2	61.4	60.7	60.0	59.3	67.7	85.2	102.6	120.1	137.6	188.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	62.8	62.2	61.6	61.0	60.5	92.1	155.8	219.6	283.4	347.1	359.6
115°	64.5	77.1	89.6	102.2	114.8	161.5	242.5	323.4	404.2	485.2	480.8
117.5°	263.3	304.6	345.9	387.3	428.6	459.1	478.7	498.3	517.8	537.4	534.4
120°	479.7	503.3	526.8	550.4	574.0	584.8	582.7	580.6	578.5	576.4	573.3
122.5°	598.6	603.1	607.7	612.3	616.9	618.5	617.3	616.0	614.8	613.5	610.1
125°	672.4	671.8	671.2	670.7	670.2	669.3	668.1	666.9	665.7	664.4	661.2
127.5°	718.8	718.8	718.7	718.6	718.4	717.6	715.7	713.9	712.1	710.4	707.9
130°	747.8	748.0	748.1	748.4	748.6	747.6	745.7	743.8	741.8	739.9	738.0
132.5°	776.1	776.3	776.4	776.6	776.8	776.1	774.5	772.8	771.2	769.5	767.6
135°	817.0	817.3	817.7	818.0	818.4	817.7	816.0	814.2	812.4	810.7	809.2
137.5°	854.3	854.9	855.5	856.1	856.7	856.1	854.4	852.6	850.9	849.3	847.5
140°	877.5	878.5	879.3	880.2	881.1	880.7	879.2	877.5	876.0	874.4	872.5
142.5°	900.2	901.1	902.0	902.8	903.7	903.4	902.0	900.5	899.1	897.7	895.5
145°	931.9	932.7	933.6	934.4	935.3	935.1	933.9	932.7	931.4	930.2	927.3
147.5°	959.7	960.4	961.1	961.8	962.6	962.5	961.6	960.7	959.8	958.9	956.0
150°	976.6	977.5	978.4	979.3	980.2	980.1	979.0	977.9	976.9	975.9	973.1
152.5°	991.1	992.3	993.4	994.5	995.7	995.7	994.7	993.7	992.6	991.6	988.9
155°	1011.2	1012.6	1014.0	1015.5	1016.8	1017.0	1016.0	1014.9	1013.8	1012.8	1010.7
157.5°	1029.7	1031.0	1032.3	1033.7	1035.1	1035.2	1034.0	1032.8	1031.7	1030.4	1029.0
160°	1040.3	1041.6	1042.8	1044.0	1045.3	1045.3	1044.3	1043.2	1042.2	1041.1	1040.1
162.5°	1049.1	1050.7	1052.1	1053.7	1055.2	1055.3	1054.1	1052.9	1051.7	1050.6	1049.6
165°	1062.4	1063.6	1064.8	1066.0	1067.2	1067.2	1066.0	1064.8	1063.6	1062.4	1061.9
167.5°	1070.7	1072.3	1073.8	1075.4	1076.9	1077.2	1075.9	1074.7	1073.5	1072.3	1071.8
170°	1075.7	1077.3	1078.8	1080.5	1082.0	1082.2	1081.0	1079.8	1078.5	1077.3	1076.9
172.5°	1079.5	1081.1	1082.6	1084.2	1085.8	1086.0	1084.8	1083.5	1082.3	1081.1	1080.7
175°	1082.8	1084.5	1086.3	1088.0	1089.8	1090.0	1088.8	1087.6	1086.4	1085.1	1084.8
177.5°	1084.9	1086.1	1087.4	1088.6	1089.9	1090.0	1089.1	1088.0	1087.1	1086.1	1086.0
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1525.4	1521.7	1519.5	1511.2	1503.9	1496.6	1494.4	1495.2	1485.2	1475.6	1471.4
5°	1584.8	1573.4	1562.5	1547.1	1528.9	1508.8	1498.6	1490.6	1470.6	1448.9	1436.3
7.5°	1638.1	1621.7	1600.9	1571.8	1545.2	1513.7	1493.7	1476.0	1446.8	1416.2	1397.4
10°	1670.5	1648.2	1621.3	1586.0	1553.4	1515.1	1488.2	1461.5	1427.1	1390.6	1367.7
12.5°	1698.4	1668.4	1641.9	1596.5	1558.0	1510.1	1478.3	1440.4	1404.3	1360.9	1338.5
15°	1764.8	1709.3	1659.1	1607.7	1560.2	1493.4	1458.0	1407.1	1359.7	1306.1	1280.3
17.5°	1816.1	1753.9	1674.6	1609.3	1553.9	1480.0	1428.0	1367.0	1311.0	1249.6	1214.6
20°	1845.4	1773.9	1688.8	1611.1	1544.8	1460.3	1403.7	1341.4	1275.7	1206.6	1168.9
22.5°	1862.7	1787.6	1703.4	1604.2	1526.6	1444.2	1373.1	1304.8	1238.3	1163.6	1124.1
25°	1868.2	1799.7	1710.5	1598.5	1503.7	1410.6	1324.9	1258.6	1178.0	1108.4	1050.7
27.5°	1841.0	1791.8	1706.2	1587.8	1477.3	1368.4	1272.9	1197.8	1112.8	1037.2	979.1
30°	1807.7	1779.1	1695.7	1576.8	1456.3	1339.2	1234.1	1148.9	1064.4	987.8	928.4
32.5°	1756.0	1749.8	1676.5	1561.3	1433.9	1302.2	1193.3	1107.3	1013.7	938.4	881.8
35°	1654.5	1682.0	1635.6	1526.6	1391.7	1249.5	1131.8	1033.5	936.4	864.4	811.2
37.5°	1518.5	1586.7	1574.5	1475.7	1334.8	1192.1	1062.2	959.5	866.9	794.3	742.1
40°	1424.9	1511.7	1524.2	1436.8	1294.6	1147.8	1010.1	907.8	817.5	751.3	698.7
42.5°	1324.3	1425.7	1460.3	1390.3	1250.7	1101.1	963.5	857.6	768.2	703.8	657.1
45°	1155.8	1290.0	1352.3	1312.3	1177.5	1024.3	882.7	775.2	694.1	633.6	597.6
47.5°	998.2	1144.9	1228.6	1214.5	1096.0	944.3	804.3	701.2	622.2	573.9	541.7
50°	886.7	1037.5	1138.6	1143.2	1037.5	887.3	746.7	649.6	577.0	531.9	505.6
52.5°	789.8	933.8	1044.0	1068.2	972.2	827.9	695.1	598.4	534.5	493.0	469.5
55°	663.3	785.0	907.2	951.8	874.7	737.5	614.8	529.6	469.6	441.1	420.5
57.5°	551.5	652.9	765.8	815.0	767.5	650.1	534.9	461.1	412.3	387.4	371.6
60°	492.5	572.5	673.0	731.8	690.7	586.2	485.6	415.3	375.4	353.1	338.2
62.5°	437.6	508.5	593.5	647.3	624.9	526.3	436.3	374.2	339.7	318.8	308.1
65°	361.1	417.1	482.8	532.4	517.6	442.7	369.1	315.9	288.5	271.9	263.4
67.5°	297.3	337.8	383.3	426.9	414.9	361.9	302.6	261.3	240.9	226.6	221.4
70°	257.1	287.9	328.5	363.3	353.6	310.2	263.4	228.0	210.3	198.3	193.1
72.5°	218.7	244.1	275.0	303.5	297.0	260.9	221.8	195.0	181.4	170.4	166.2
75°	165.1	184.5	203.4	222.2	220.5	192.5	169.7	149.1	138.3	129.7	127.9
77.5°	121.9	132.8	145.6	156.8	153.7	137.7	119.8	108.0	100.0	94.3	93.3
80°	93.2	99.4	108.6	116.6	112.5	105.7	91.4	82.8	77.1	71.4	69.1
82.5°	67.5	73.8	79.3	83.6	80.6	74.1	65.3	59.5	56.1	52.2	51.3
85°	35.4	38.8	41.2	42.3	41.2	37.1	33.1	30.8	28.0	26.3	25.7
87.5°	16.3	16.0	15.8	16.4	14.6	14.2	12.0	10.2	10.2	10.1	9.6
90°	12.9	11.5	10.2	8.4	6.5	4.6	2.7	0.8	2.7	4.6	6.5
92.5°	16.9	16.2	15.4	15.2	15.3	15.5	15.7	15.8	15.7	15.5	15.3
95°	28.2	27.0	25.7	28.1	33.8	39.6	45.4	51.1	45.4	39.6	33.8
97.5°	35.4	32.5	29.7	36.4	52.7	69.0	85.2	101.4	85.2	69.0	52.7
100°	38.9	35.9	33.0	43.4	67.3	91.3	115.2	139.2	115.2	91.3	67.3
102.5°	95.7	120.6	145.5	160.4	165.5	170.6	175.6	180.7	175.6	170.6	165.5
105°	143.4	191.1	238.8	260.0	254.8	249.5	244.3	239.0	244.3	249.5	254.8
107.5°	181.6	238.8	296.0	322.5	318.2	314.0	309.8	305.6	309.8	314.0	318.2
110°	238.6	289.1	339.6	363.0	359.4	355.7	352.1	348.4	352.1	355.7	359.4





TEST NUMBER: P331402-935

CATALOG NUMBER: SA2XXDIP-C865D925U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	372.0	384.5	397.0	401.6	398.4	395.1	391.8	388.6	391.8	395.1	398.4
115°	476.5	472.1	467.7	464.0	461.1	458.1	455.1	452.1	455.1	458.1	461.1
117.5°	531.4	528.4	525.4	522.2	518.9	515.6	512.2	508.9	512.2	515.6	518.9
120°	570.1	567.0	563.8	560.9	558.3	555.7	553.0	550.4	553.0	555.7	558.3
122.5°	606.7	603.2	599.8	596.7	593.9	591.2	588.4	585.7	588.4	591.2	593.9
125°	657.8	654.5	651.2	648.4	646.1	643.9	641.5	639.3	641.5	643.9	646.1
127.5°	705.4	702.9	700.4	697.9	695.4	692.9	690.4	687.9	690.4	692.9	695.4
130°	736.1	734.2	732.3	729.9	727.1	724.3	721.5	718.8	721.5	724.3	727.1
132.5°	765.7	763.8	761.8	759.7	757.3	754.9	752.5	750.2	752.5	754.9	757.3
135°	807.6	806.0	804.4	802.3	799.4	796.7	793.8	791.1	793.8	796.7	799.4
137.5°	845.7	843.9	842.1	840.2	838.3	836.4	834.4	832.4	834.4	836.4	838.3
140°	870.6	868.7	866.8	865.0	863.7	862.3	860.9	859.5	860.9	862.3	863.7
142.5°	893.3	891.0	888.9	887.2	885.9	884.7	883.4	882.1	883.4	884.7	885.9
145°	924.3	921.4	918.3	917.0	917.1	917.3	917.5	917.7	917.5	917.3	917.1
147.5°	953.0	950.0	947.1	946.0	946.7	947.4	948.0	948.6	948.0	947.4	946.7
150°	970.3	967.5	964.7	963.9	965.1	966.3	967.6	968.8	967.6	966.3	965.1
152.5°	986.3	983.6	980.9	980.3	981.7	983.0	984.4	985.8	984.4	983.0	981.7
155°	1008.7	1006.5	1004.4	1004.2	1005.7	1007.3	1008.9	1010.5	1008.9	1007.3	1005.7
157.5°	1027.5	1026.1	1024.6	1024.5	1025.8	1027.2	1028.5	1029.8	1028.5	1027.2	1025.8
160°	1039.1	1037.9	1036.9	1036.9	1037.9	1039.1	1040.1	1041.1	1040.1	1039.1	1037.9
162.5°	1048.7	1047.8	1046.9	1047.0	1048.0	1049.1	1050.2	1051.2	1050.2	1049.1	1048.0
165°	1061.3	1060.8	1060.2	1060.5	1061.5	1062.6	1063.7	1064.7	1063.7	1062.6	1061.5
167.5°	1071.3	1070.8	1070.3	1070.6	1071.6	1072.7	1073.8	1074.8	1073.8	1072.7	1071.6
170°	1076.6	1076.2	1075.9	1076.2	1077.3	1078.3	1079.3	1080.5	1079.3	1078.3	1077.3
172.5°	1080.4	1080.0	1079.7	1080.0	1081.1	1082.1	1083.1	1084.2	1083.1	1082.1	1081.1
175°	1084.4	1084.1	1083.7	1084.2	1085.4	1086.7	1087.9	1089.1	1087.9	1086.7	1085.4
177.5°	1085.8	1085.7	1085.5	1086.0	1086.9	1088.0	1088.9	1089.9	1088.9	1088.0	1086.9
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



TEST NUMBER: P331402-935

CATALOG NUMBER: SA2XXDIP-C865D925U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1466.9	1464.1	1454.6	1449.6	1441.3	1433.6	1428.5	1430.8	1432.6	1431.7	1430.4
5°	1424.9	1414.0	1397.4	1383.1	1372.9	1354.0	1346.0	1342.0	1338.6	1334.6	1330.6
7.5°	1374.8	1357.7	1333.9	1313.5	1294.3	1270.9	1257.6	1249.6	1241.4	1232.3	1224.3
10°	1339.2	1315.2	1290.0	1261.5	1238.6	1217.5	1198.6	1186.0	1174.7	1163.7	1155.8
12.5°	1301.7	1274.0	1242.9	1203.9	1178.7	1148.5	1145.6	1123.4	1105.6	1098.9	1089.5
15°	1242.1	1203.2	1163.7	1117.5	1097.5	1070.1	1052.9	1035.8	1020.4	1009.5	1006.7
17.5°	1174.3	1124.0	1084.8	1051.5	1018.7	990.7	974.9	961.2	948.5	934.0	932.0
20°	1122.7	1079.2	1036.4	1007.2	973.5	944.9	925.5	911.8	901.0	892.4	884.9
22.5°	1073.8	1026.2	987.0	955.1	921.9	898.8	883.5	870.2	861.2	851.7	844.7
25°	995.2	958.1	915.2	879.3	851.8	837.0	824.4	813.0	807.3	801.0	793.0
27.5°	926.5	885.3	845.2	817.3	793.2	780.1	771.2	763.4	758.0	754.3	749.8
30°	878.1	836.4	804.9	777.6	757.6	744.4	738.7	734.2	727.9	725.6	723.3
32.5°	831.5	793.9	767.1	743.3	724.2	715.7	710.4	706.3	701.4	699.0	694.5
35°	765.6	734.2	707.8	694.7	679.3	671.8	667.9	662.2	657.5	655.3	654.7
37.5°	703.5	676.2	658.9	642.0	635.5	630.9	625.5	621.6	620.2	619.8	619.3
40°	663.3	641.0	625.6	611.9	609.0	602.2	597.6	594.2	594.2	594.8	594.2
42.5°	626.7	606.7	593.1	581.3	577.9	573.9	569.3	569.0	570.0	571.9	570.0
45°	571.3	557.1	547.3	541.6	535.3	531.3	530.7	532.4	533.0	533.6	535.3
47.5°	520.4	510.8	502.0	495.8	493.0	492.3	491.6	494.6	497.4	498.4	501.0
50°	490.2	479.3	471.9	467.9	465.6	464.5	465.6	469.1	471.3	474.2	475.9
52.5°	456.3	448.7	443.6	440.5	439.5	440.2	440.5	444.4	448.1	449.0	449.9
55°	409.7	403.9	402.8	397.6	399.9	399.3	402.2	404.5	407.9	411.4	411.9
57.5°	363.0	358.4	355.3	355.9	356.5	359.0	361.4	365.4	369.1	372.7	373.1
60°	331.9	329.7	328.0	328.0	329.1	332.5	335.4	339.3	341.6	344.0	345.6
62.5°	303.6	301.4	299.6	300.5	303.5	305.6	308.8	311.0	313.3	315.6	316.4
65°	258.8	257.7	259.4	260.5	261.1	264.0	267.9	269.7	271.9	273.1	277.1
67.5°	217.6	217.7	217.6	219.1	222.5	223.2	227.0	230.9	231.4	233.6	236.2
70°	189.7	190.8	192.0	193.1	196.0	197.1	199.9	201.6	204.0	205.7	207.4
72.5°	164.1	164.3	165.5	165.2	167.6	170.1	172.5	174.3	176.5	178.7	180.4
75°	126.2	126.2	127.4	127.9	130.9	133.7	133.1	134.2	136.6	138.8	140.0
77.5°	92.2	90.9	92.2	92.8	93.7	96.1	96.5	98.2	100.7	100.0	101.3
80°	70.3	68.5	70.3	70.9	70.9	73.7	73.7	74.8	76.5	74.8	76.5
82.5°	50.2	49.3	50.6	50.7	51.7	51.7	52.7	52.9	54.6	53.8	54.6
85°	25.1	24.5	25.1	24.5	25.1	25.7	25.7	25.1	25.1	26.3	24.5
87.5°	9.5	9.3	9.1	9.5	9.3	9.1	8.8	9.0	9.1	8.4	8.5
90°	8.4	10.2	11.5	12.9	14.3	15.8	16.6	17.5	18.3	19.2	19.8
92.5°	15.2	15.4	16.2	16.9	17.6	18.3	18.7	19.1	19.6	20.1	20.4
95°	28.1	25.7	27.0	28.2	29.4	30.7	31.5	32.4	33.3	34.2	34.5
97.5°	36.4	29.7	32.5	35.4	38.2	41.1	41.8	42.4	43.1	43.8	44.3
100°	43.4	33.0	35.9	38.9	41.8	44.9	46.2	47.6	49.0	50.5	51.3
102.5°	160.4	145.5	120.6	95.7	70.9	46.1	47.9	49.7	51.6	53.4	54.5
105°	260.0	238.8	191.1	143.4	95.7	48.0	49.9	51.8	53.7	55.6	57.0
107.5°	322.5	296.0	238.8	181.6	124.3	67.2	65.2	63.2	61.3	59.3	58.7
110°	363.0	339.6	289.1	238.6	188.1	137.6	120.1	102.6	85.2	67.7	59.3



TEST NUMBER: P331402-935

CATALOG NUMBER: SA2XXDIP-C865D925U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	401.6	397.0	384.5	372.0	359.6	347.1	283.4	219.6	155.8	92.1	60.5
115°	464.0	467.7	472.1	476.5	480.8	485.2	404.2	323.4	242.5	161.5	114.8
117.5°	522.2	525.4	528.4	531.4	534.4	537.4	517.8	498.3	478.7	459.1	428.6
120°	560.9	563.8	567.0	570.1	573.3	576.4	578.5	580.6	582.7	584.8	574.0
122.5°	596.7	599.8	603.2	606.7	610.1	613.5	614.8	616.0	617.3	618.5	616.9
125°	648.4	651.2	654.5	657.8	661.2	664.4	665.7	666.9	668.1	669.3	670.2
127.5°	697.9	700.4	702.9	705.4	707.9	710.4	712.1	713.9	715.7	717.6	718.4
130°	729.9	732.3	734.2	736.1	738.0	739.9	741.8	743.8	745.7	747.6	748.6
132.5°	759.7	761.8	763.8	765.7	767.6	769.5	771.2	772.8	774.5	776.1	776.8
135°	802.3	804.4	806.0	807.6	809.2	810.7	812.4	814.2	816.0	817.7	818.4
137.5°	840.2	842.1	843.9	845.7	847.5	849.3	850.9	852.6	854.4	856.1	856.7
140°	865.0	866.8	868.7	870.6	872.5	874.4	876.0	877.5	879.2	880.7	881.1
142.5°	887.2	888.9	891.0	893.3	895.5	897.7	899.1	900.5	902.0	903.4	903.7
145°	917.0	918.3	921.4	924.3	927.3	930.2	931.4	932.7	933.9	935.1	935.3
147.5°	946.0	947.1	950.0	953.0	956.0	958.9	959.8	960.7	961.6	962.5	962.6
150°	963.9	964.7	967.5	970.3	973.1	975.9	976.9	977.9	979.0	980.1	980.2
152.5°	980.3	980.9	983.6	986.3	988.9	991.6	992.6	993.7	994.7	995.7	995.7
155°	1004.2	1004.4	1006.5	1008.7	1010.7	1012.8	1013.8	1014.9	1016.0	1017.0	1016.8
157.5°	1024.5	1024.6	1026.1	1027.5	1029.0	1030.4	1031.7	1032.8	1034.0	1035.2	1035.1
160°	1036.9	1036.9	1037.9	1039.1	1040.1	1041.1	1042.2	1043.2	1044.3	1045.3	1045.3
162.5°	1047.0	1046.9	1047.8	1048.7	1049.6	1050.6	1051.7	1052.9	1054.1	1055.3	1055.2
165°	1060.5	1060.2	1060.8	1061.3	1061.9	1062.4	1063.6	1064.8	1066.0	1067.2	1067.2
167.5°	1070.6	1070.3	1070.8	1071.3	1071.8	1072.3	1073.5	1074.7	1075.9	1077.2	1076.9
170°	1076.2	1075.9	1076.2	1076.6	1076.9	1077.3	1078.5	1079.8	1081.0	1082.2	1082.0
172.5°	1080.0	1079.7	1080.0	1080.4	1080.7	1081.1	1082.3	1083.5	1084.8	1086.0	1085.8
175°	1084.2	1083.7	1084.1	1084.4	1084.8	1085.1	1086.4	1087.6	1088.8	1090.0	1089.8
177.5°	1086.0	1085.5	1085.7	1085.8	1086.0	1086.1	1087.1	1088.0	1089.1	1090.0	1089.9
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



TEST NUMBER: P331402-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1425.7	1424.9	1424.9	1420.7	1424.9	1424.9	1425.7	1430.4	1431.7	1432.6	1430.8
5°	1322.6	1320.9	1318.0	1320.9	1318.0	1320.9	1322.6	1330.6	1334.6	1338.6	1342.0
7.5°	1220.6	1213.7	1212.6	1205.9	1212.6	1213.7	1220.6	1224.3	1232.3	1241.4	1249.6
10°	1146.1	1141.5	1140.9	1130.1	1140.9	1141.5	1146.1	1155.8	1163.7	1174.7	1186.0
12.5°	1089.4	1078.4	1080.6	1074.3	1080.6	1078.4	1089.4	1089.5	1098.9	1105.6	1123.4
15°	991.3	991.3	988.9	979.2	988.9	991.3	991.3	1006.7	1009.5	1020.4	1035.8
17.5°	920.8	919.5	914.1	916.9	914.1	919.5	920.8	932.0	934.0	948.5	961.2
20°	878.7	875.3	868.4	868.4	868.4	875.3	878.7	884.9	892.4	901.0	911.8
22.5°	839.0	838.7	831.4	833.6	831.4	838.7	839.0	844.7	851.7	861.2	870.2
25°	792.4	787.8	784.5	786.1	784.5	787.8	792.4	793.0	801.0	807.3	813.0
27.5°	748.3	745.8	745.5	740.9	745.5	745.8	748.3	749.8	754.3	758.0	763.4
30°	722.7	717.0	718.2	715.3	718.2	717.0	722.7	723.3	725.6	727.9	734.2
32.5°	693.4	691.4	690.3	687.9	690.3	691.4	693.4	694.5	699.0	701.4	706.3
35°	653.6	654.2	651.3	652.5	651.3	654.2	653.6	654.7	655.3	657.5	662.2
37.5°	618.7	620.5	619.2	619.6	619.2	620.5	618.7	619.3	619.8	620.2	621.6
40°	595.9	595.9	595.9	597.6	595.9	595.9	595.9	594.2	594.8	594.2	594.2
42.5°	573.9	573.0	572.1	572.0	572.1	573.0	573.9	570.0	571.9	570.0	569.0
45°	536.5	538.2	538.7	535.9	538.7	538.2	536.5	535.3	533.6	533.0	532.4
47.5°	502.6	502.7	502.6	505.1	502.6	502.7	502.6	501.0	498.4	497.4	494.6
50°	478.8	477.6	478.8	477.6	478.8	477.6	478.8	475.9	474.2	471.3	469.1
52.5°	453.7	453.8	453.1	453.0	453.1	453.8	453.7	449.9	449.0	448.1	444.4
55°	414.2	415.3	414.7	414.7	414.7	415.3	414.2	411.9	411.4	407.9	404.5
57.5°	373.4	374.4	375.2	372.7	375.2	374.4	373.4	373.1	372.7	369.1	365.4
60°	345.1	347.9	347.3	346.2	347.3	347.9	345.1	345.6	344.0	341.6	339.3
62.5°	319.0	320.0	319.9	319.7	319.9	320.0	319.0	316.4	315.6	313.3	311.0
65°	278.8	279.9	278.2	279.9	278.2	279.9	278.8	277.1	273.1	271.9	269.7
67.5°	235.5	235.8	237.1	237.9	237.1	235.8	235.5	236.2	233.6	231.4	230.9
70°	208.5	207.9	209.7	211.4	209.7	207.9	208.5	207.4	205.7	204.0	201.6
72.5°	180.2	181.4	180.9	182.1	180.9	181.4	180.2	180.4	178.7	176.5	174.3
75°	138.8	140.5	140.0	141.7	140.0	140.5	138.8	140.0	138.8	136.6	134.2
77.5°	100.3	100.6	100.3	101.3	100.3	100.6	100.3	101.3	100.0	100.7	98.2
80°	76.5	75.4	74.3	76.5	74.3	75.4	76.5	76.5	74.8	76.5	74.8
82.5°	53.2	53.9	52.8	52.8	52.8	53.9	53.2	54.6	53.8	54.6	52.9
85°	24.5	24.0	22.8	22.8	22.8	24.0	24.5	24.5	26.3	25.1	25.1
87.5°	8.6	8.2	8.3	7.9	8.3	8.2	8.6	8.5	8.4	9.1	9.0
90°	20.1	20.5	20.9	21.3	20.9	20.5	20.1	19.8	19.2	18.3	17.5
92.5°	20.6	20.8	21.0	21.3	21.0	20.8	20.6	20.4	20.1	19.6	19.1
95°	34.4	34.2	34.0	33.8	34.0	34.2	34.4	34.5	34.2	33.3	32.4
97.5°	44.5	44.7	44.9	45.1	44.9	44.7	44.5	44.3	43.8	43.1	42.4
100°	51.7	52.0	52.3	52.7	52.3	52.0	51.7	51.3	50.5	49.0	47.6
102.5°	55.0	55.4	56.0	56.5	56.0	55.4	55.0	54.5	53.4	51.6	49.7
105°	57.7	58.4	59.1	59.8	59.1	58.4	57.7	57.0	55.6	53.7	51.8
107.5°	59.4	60.1	60.8	61.5	60.8	60.1	59.4	58.7	59.3	61.3	63.2
110°	60.0	60.7	61.4	62.2	61.4	60.7	60.0	59.3	67.7	85.2	102.6



TEST NUMBER: P331402-935  
 CATALOG NUMBER: SA2XXDIP-C865D925U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	61.0	61.6	62.2	62.8	62.2	61.6	61.0	60.5	92.1	155.8	219.6
115°	102.2	89.6	77.1	64.5	77.1	89.6	102.2	114.8	161.5	242.5	323.4
117.5°	387.3	345.9	304.6	263.3	304.6	345.9	387.3	428.6	459.1	478.7	498.3
120°	550.4	526.8	503.3	479.7	503.3	526.8	550.4	574.0	584.8	582.7	580.6
122.5°	612.3	607.7	603.1	598.6	603.1	607.7	612.3	616.9	618.5	617.3	616.0
125°	670.7	671.2	671.8	672.4	671.8	671.2	670.7	670.2	669.3	668.1	666.9
127.5°	718.6	718.7	718.8	718.8	718.8	718.7	718.6	718.4	717.6	715.7	713.9
130°	748.4	748.1	748.0	747.8	748.0	748.1	748.4	748.6	747.6	745.7	743.8
132.5°	776.6	776.4	776.3	776.1	776.3	776.4	776.6	776.8	776.1	774.5	772.8
135°	818.0	817.7	817.3	817.0	817.3	817.7	818.0	818.4	817.7	816.0	814.2
137.5°	856.1	855.5	854.9	854.3	854.9	855.5	856.1	856.7	856.1	854.4	852.6
140°	880.2	879.3	878.5	877.5	878.5	879.3	880.2	881.1	880.7	879.2	877.5
142.5°	902.8	902.0	901.1	900.2	901.1	902.0	902.8	903.7	903.4	902.0	900.5
145°	934.4	933.6	932.7	931.9	932.7	933.6	934.4	935.3	935.1	933.9	932.7
147.5°	961.8	961.1	960.4	959.7	960.4	961.1	961.8	962.6	962.5	961.6	960.7
150°	979.3	978.4	977.5	976.6	977.5	978.4	979.3	980.2	980.1	979.0	977.9
152.5°	994.5	993.4	992.3	991.1	992.3	993.4	994.5	995.7	995.7	994.7	993.7
155°	1015.5	1014.0	1012.6	1011.2	1012.6	1014.0	1015.5	1016.8	1017.0	1016.0	1014.9
157.5°	1033.7	1032.3	1031.0	1029.7	1031.0	1032.3	1033.7	1035.1	1035.2	1034.0	1032.8
160°	1044.0	1042.8	1041.6	1040.3	1041.6	1042.8	1044.0	1045.3	1045.3	1044.3	1043.2
162.5°	1053.7	1052.1	1050.7	1049.1	1050.7	1052.1	1053.7	1055.2	1055.3	1054.1	1052.9
165°	1066.0	1064.8	1063.6	1062.4	1063.6	1064.8	1066.0	1067.2	1067.2	1066.0	1064.8
167.5°	1075.4	1073.8	1072.3	1070.7	1072.3	1073.8	1075.4	1076.9	1077.2	1075.9	1074.7
170°	1080.5	1078.8	1077.3	1075.7	1077.3	1078.8	1080.5	1082.0	1082.2	1081.0	1079.8
172.5°	1084.2	1082.6	1081.1	1079.5	1081.1	1082.6	1084.2	1085.8	1086.0	1084.8	1083.5
175°	1088.0	1086.3	1084.5	1082.8	1084.5	1086.3	1088.0	1089.8	1090.0	1088.8	1087.6
177.5°	1088.6	1087.4	1086.1	1084.9	1086.1	1087.4	1088.6	1089.9	1090.0	1089.1	1088.0
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



TEST NUMBER: P331402-935  
 CATALOG NUMBER: SA2XXDIP-C865D925U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1428.5	1433.6	1441.3	1449.6	1454.6	1464.1	1466.9	1471.4	1475.6	1485.2	1495.2
5°	1346.0	1354.0	1372.9	1383.1	1397.4	1414.0	1424.9	1436.3	1448.9	1470.6	1490.6
7.5°	1257.6	1270.9	1294.3	1313.5	1333.9	1357.7	1374.8	1397.4	1416.2	1446.8	1476.0
10°	1198.6	1217.5	1238.6	1261.5	1290.0	1315.2	1339.2	1367.7	1390.6	1427.1	1461.5
12.5°	1145.6	1148.5	1178.7	1203.9	1242.9	1274.0	1301.7	1338.5	1360.9	1404.3	1440.4
15°	1052.9	1070.1	1097.5	1117.5	1163.7	1203.2	1242.1	1280.3	1306.1	1359.7	1407.1
17.5°	974.9	990.7	1018.7	1051.5	1084.8	1124.0	1174.3	1214.6	1249.6	1311.0	1367.0
20°	925.5	944.9	973.5	1007.2	1036.4	1079.2	1122.7	1168.9	1206.6	1275.7	1341.4
22.5°	883.5	898.8	921.9	955.1	987.0	1026.2	1073.8	1124.1	1163.6	1238.3	1304.8
25°	824.4	837.0	851.8	879.3	915.2	958.1	995.2	1050.7	1108.4	1178.0	1258.6
27.5°	771.2	780.1	793.2	817.3	845.2	885.3	926.5	979.1	1037.2	1112.8	1197.8
30°	738.7	744.4	757.6	777.6	804.9	836.4	878.1	928.4	987.8	1064.4	1148.9
32.5°	710.4	715.7	724.2	743.3	767.1	793.9	831.5	881.8	938.4	1013.7	1107.3
35°	667.9	671.8	679.3	694.7	707.8	734.2	765.6	811.2	864.4	936.4	1033.5
37.5°	625.5	630.9	635.5	642.0	658.9	676.2	703.5	742.1	794.3	866.9	959.5
40°	597.6	602.2	609.0	611.9	625.6	641.0	663.3	698.7	751.3	817.5	907.8
42.5°	569.3	573.9	577.9	581.3	593.1	606.7	626.7	657.1	703.8	768.2	857.6
45°	530.7	531.3	535.3	541.6	547.3	557.1	571.3	597.6	633.6	694.1	775.2
47.5°	491.6	492.3	493.0	495.8	502.0	510.8	520.4	541.7	573.9	622.2	701.2
50°	465.6	464.5	465.6	467.9	471.9	479.3	490.2	505.6	531.9	577.0	649.6
52.5°	440.5	440.2	439.5	440.5	443.6	448.7	456.3	469.5	493.0	534.5	598.4
55°	402.2	399.3	399.9	397.6	402.8	403.9	409.7	420.5	441.1	469.6	529.6
57.5°	361.4	359.0	356.5	355.9	355.3	358.4	363.0	371.6	387.4	412.3	461.1
60°	335.4	332.5	329.1	328.0	328.0	329.7	331.9	338.2	353.1	375.4	415.3
62.5°	308.8	305.6	303.5	300.5	299.6	301.4	303.6	308.1	318.8	339.7	374.2
65°	267.9	264.0	261.1	260.5	259.4	257.7	258.8	263.4	271.9	288.5	315.9
67.5°	227.0	223.2	222.5	219.1	217.6	217.7	217.6	221.4	226.6	240.9	261.3
70°	199.9	197.1	196.0	193.1	192.0	190.8	189.7	193.1	198.3	210.3	228.0
72.5°	172.5	170.1	167.6	165.2	165.5	164.3	164.1	166.2	170.4	181.4	195.0
75°	133.1	133.7	130.9	127.9	127.4	126.2	126.2	127.9	129.7	138.3	149.1
77.5°	96.5	96.1	93.7	92.8	92.2	90.9	92.2	93.3	94.3	100.0	108.0
80°	73.7	73.7	70.9	70.9	70.3	68.5	70.3	69.1	71.4	77.1	82.8
82.5°	52.7	51.7	51.7	50.7	50.6	49.3	50.2	51.3	52.2	56.1	59.5
85°	25.7	25.7	25.1	24.5	25.1	24.5	25.1	25.7	26.3	28.0	30.8
87.5°	8.8	9.1	9.3	9.5	9.1	9.3	9.5	9.6	10.1	10.2	10.2
90°	16.6	15.8	14.3	12.9	11.5	10.2	8.4	6.5	4.6	2.7	0.8
92.5°	18.7	18.3	17.6	16.9	16.2	15.4	15.2	15.3	15.5	15.7	15.8
95°	31.5	30.7	29.4	28.2	27.0	25.7	28.1	33.8	39.6	45.4	51.1
97.5°	41.8	41.1	38.2	35.4	32.5	29.7	36.4	52.7	69.0	85.2	101.4
100°	46.2	44.9	41.8	38.9	35.9	33.0	43.4	67.3	91.3	115.2	139.2
102.5°	47.9	46.1	40.9	35.7	32.6	29.7	36.4	52.7	69.0	85.2	101.4
105°	49.9	48.0	45.7	43.4	41.1	38.8	46.0	62.0	79.5	96.3	113.0
107.5°	65.2	67.2	64.3	61.6	59.3	57.0	64.5	80.2	97.7	115.2	139.2
110°	120.1	137.6	188.1	238.6	289.1	339.6	363.0	359.4	355.7	352.1	348.4



TEST NUMBER: P331402-935

CATALOG NUMBER: SA2XXDIP-C865D925U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	283.4	347.1	359.6	372.0	384.5	397.0	401.6	398.4	395.1	391.8	388.6
115°	404.2	485.2	480.8	476.5	472.1	467.7	464.0	461.1	458.1	455.1	452.1
117.5°	517.8	537.4	534.4	531.4	528.4	525.4	522.2	518.9	515.6	512.2	508.9
120°	578.5	576.4	573.3	570.1	567.0	563.8	560.9	558.3	555.7	553.0	550.4
122.5°	614.8	613.5	610.1	606.7	603.2	599.8	596.7	593.9	591.2	588.4	585.7
125°	665.7	664.4	661.2	657.8	654.5	651.2	648.4	646.1	643.9	641.5	639.3
127.5°	712.1	710.4	707.9	705.4	702.9	700.4	697.9	695.4	692.9	690.4	687.9
130°	741.8	739.9	738.0	736.1	734.2	732.3	729.9	727.1	724.3	721.5	718.8
132.5°	771.2	769.5	767.6	765.7	763.8	761.8	759.7	757.3	754.9	752.5	750.2
135°	812.4	810.7	809.2	807.6	806.0	804.4	802.3	799.4	796.7	793.8	791.1
137.5°	850.9	849.3	847.5	845.7	843.9	842.1	840.2	838.3	836.4	834.4	832.4
140°	876.0	874.4	872.5	870.6	868.7	866.8	865.0	863.7	862.3	860.9	859.5
142.5°	899.1	897.7	895.5	893.3	891.0	888.9	887.2	885.9	884.7	883.4	882.1
145°	931.4	930.2	927.3	924.3	921.4	918.3	917.0	917.1	917.3	917.5	917.7
147.5°	959.8	958.9	956.0	953.0	950.0	947.1	946.0	946.7	947.4	948.0	948.6
150°	976.9	975.9	973.1	970.3	967.5	964.7	963.9	965.1	966.3	967.6	968.8
152.5°	992.6	991.6	988.9	986.3	983.6	980.9	980.3	981.7	983.0	984.4	985.8
155°	1013.8	1012.8	1010.7	1008.7	1006.5	1004.4	1004.2	1005.7	1007.3	1008.9	1010.5
157.5°	1031.7	1030.4	1029.0	1027.5	1026.1	1024.6	1024.5	1025.8	1027.2	1028.5	1029.8
160°	1042.2	1041.1	1040.1	1039.1	1037.9	1036.9	1036.9	1037.9	1039.1	1040.1	1041.1
162.5°	1051.7	1050.6	1049.6	1048.7	1047.8	1046.9	1047.0	1048.0	1049.1	1050.2	1051.2
165°	1063.6	1062.4	1061.9	1061.3	1060.8	1060.2	1060.5	1061.5	1062.6	1063.7	1064.7
167.5°	1073.5	1072.3	1071.8	1071.3	1070.8	1070.3	1070.6	1071.6	1072.7	1073.8	1074.8
170°	1078.5	1077.3	1076.9	1076.6	1076.2	1075.9	1076.2	1077.3	1078.3	1079.3	1080.5
172.5°	1082.3	1081.1	1080.7	1080.4	1080.0	1079.7	1080.0	1081.1	1082.1	1083.1	1084.2
175°	1086.4	1085.1	1084.8	1084.4	1084.1	1083.7	1084.2	1085.4	1086.7	1087.9	1089.1
177.5°	1087.1	1086.1	1086.0	1085.8	1085.7	1085.5	1086.0	1086.9	1088.0	1088.9	1089.9
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



TEST NUMBER: P331402-935

CATALOG NUMBER: SA2XXDIP-C865D925U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1494.4	1496.6	1503.9	1511.2	1519.5	1521.7	1525.4	1522.2	1521.3	1530.0	1536.4
5°	1498.6	1508.8	1528.9	1547.1	1562.5	1573.4	1584.8	1589.4	1597.9	1610.0	1624.8
7.5°	1493.7	1513.7	1545.2	1571.8	1600.9	1621.7	1638.1	1652.0	1669.0	1691.7	1716.5
10°	1488.2	1515.1	1553.4	1586.0	1621.3	1648.2	1670.5	1692.2	1717.4	1748.8	1781.3
12.5°	1478.3	1510.1	1558.0	1596.5	1641.9	1668.4	1698.4	1745.2	1772.2	1816.0	1861.8
15°	1458.0	1493.4	1560.2	1607.7	1659.1	1709.3	1764.8	1809.4	1853.9	1879.6	1944.2
17.5°	1428.0	1480.0	1553.9	1609.3	1674.6	1753.9	1816.1	1866.6	1918.0	1959.7	1992.1
20°	1403.7	1460.3	1544.8	1611.1	1688.8	1773.9	1845.4	1896.8	1941.3	1976.2	1996.1
22.5°	1373.1	1444.2	1526.6	1604.2	1703.4	1787.6	1862.7	1903.2	1940.4	1957.4	1965.1
25°	1324.9	1410.6	1503.7	1598.5	1710.5	1799.7	1868.2	1892.7	1903.6	1887.1	1859.6
27.5°	1272.9	1368.4	1477.3	1587.8	1706.2	1791.8	1841.0	1837.1	1818.7	1765.1	1722.3
30°	1234.1	1339.2	1456.3	1576.8	1695.7	1779.1	1807.7	1779.1	1737.3	1677.4	1616.3
32.5°	1193.3	1302.2	1433.9	1561.3	1676.5	1749.8	1756.0	1706.8	1642.3	1574.1	1497.9
35°	1131.8	1249.5	1391.7	1526.6	1635.6	1682.0	1654.5	1567.7	1491.2	1398.0	1294.0
37.5°	1062.2	1192.1	1334.8	1475.7	1574.5	1586.7	1518.5	1427.1	1319.1	1209.7	1087.4
40°	1010.1	1147.8	1294.6	1436.8	1524.2	1511.7	1424.9	1324.3	1195.8	1062.0	948.4
42.5°	963.5	1101.1	1250.7	1390.3	1460.3	1425.7	1324.3	1200.9	1062.7	936.9	832.8
45°	882.7	1024.3	1177.5	1312.3	1352.3	1290.0	1155.8	1018.6	882.7	777.6	695.3
47.5°	804.3	944.3	1096.0	1214.5	1228.6	1144.9	998.2	857.1	740.2	654.6	596.6
50°	746.7	887.3	1037.5	1143.2	1138.6	1037.5	886.7	752.4	654.7	585.6	546.7
52.5°	695.1	827.9	972.2	1068.2	1044.0	933.8	789.8	670.6	590.3	536.2	501.0
55°	614.8	737.5	874.7	951.8	907.2	785.0	663.3	567.3	507.9	467.4	439.9
57.5°	534.9	650.1	767.5	815.0	765.8	652.9	551.5	481.8	437.1	407.1	389.3
60°	485.6	586.2	690.7	731.8	673.0	572.5	492.5	430.2	394.2	369.6	353.6
62.5°	436.3	526.3	624.9	647.3	593.5	508.5	437.6	385.9	356.3	334.4	319.3
65°	369.1	442.7	517.6	532.4	482.8	417.1	361.1	327.4	301.1	285.1	273.1
67.5°	302.6	361.9	414.9	426.9	383.3	337.8	297.3	267.9	250.1	236.9	226.7
70°	263.4	310.2	353.6	363.3	328.5	287.9	257.1	233.7	217.7	206.2	196.6
72.5°	221.8	260.9	297.0	303.5	275.0	244.1	218.7	200.3	186.1	178.8	169.5
75°	169.7	192.5	220.5	222.2	203.4	184.5	165.1	153.1	145.7	136.6	132.0
77.5°	119.8	137.7	153.7	156.8	145.6	132.8	121.9	112.4	106.2	101.9	97.7
80°	91.4	105.7	112.5	116.6	108.6	99.4	93.2	86.9	82.8	80.0	77.1
82.5°	65.3	74.1	80.6	83.6	79.3	73.8	67.5	64.0	60.9	58.5	57.5
85°	33.1	37.1	41.2	42.3	41.2	38.8	35.4	35.4	33.7	33.1	33.1
87.5°	12.0	14.2	14.6	16.4	15.8	16.0	16.3	16.1	15.9	15.7	15.4
90°	2.7	4.6	6.5	8.4	10.2	11.5	12.9	14.3	15.8	16.6	17.5
92.5°	15.7	15.5	15.3	15.2	15.4	16.2	16.9	17.6	18.3	18.7	19.1
95°	45.4	39.6	33.8	28.1	25.7	27.0	28.2	29.4	30.7	31.5	32.4
97.5°	85.2	69.0	52.7	36.4	29.7	32.5	35.4	38.2	41.1	41.8	42.4
100°	115.2	91.3	67.3	43.4	33.0	35.9	38.9	41.8	44.9	46.2	47.6
102.5°	175.6	170.6	165.5	160.4	145.5	120.6	95.7	70.9	46.1	47.9	49.7
105°	244.3	249.5	254.8	260.0	238.8	191.1	143.4	95.7	48.0	49.9	51.8
107.5°	309.8	314.0	318.2	322.5	296.0	238.8	181.6	124.3	67.2	65.2	63.2
110°	352.1	355.7	359.4	363.0	339.6	289.1	238.6	188.1	137.6	120.1	102.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	391.8	395.1	398.4	401.6	397.0	384.5	372.0	359.6	347.1	283.4	219.6
115°	455.1	458.1	461.1	464.0	467.7	472.1	476.5	480.8	485.2	404.2	323.4
117.5°	512.2	515.6	518.9	522.2	525.4	528.4	531.4	534.4	537.4	517.8	498.3
120°	553.0	555.7	558.3	560.9	563.8	567.0	570.1	573.3	576.4	578.5	580.6
122.5°	588.4	591.2	593.9	596.7	599.8	603.2	606.7	610.1	613.5	614.8	616.0
125°	641.5	643.9	646.1	648.4	651.2	654.5	657.8	661.2	664.4	665.7	666.9
127.5°	690.4	692.9	695.4	697.9	700.4	702.9	705.4	707.9	710.4	712.1	713.9
130°	721.5	724.3	727.1	729.9	732.3	734.2	736.1	738.0	739.9	741.8	743.8
132.5°	752.5	754.9	757.3	759.7	761.8	763.8	765.7	767.6	769.5	771.2	772.8
135°	793.8	796.7	799.4	802.3	804.4	806.0	807.6	809.2	810.7	812.4	814.2
137.5°	834.4	836.4	838.3	840.2	842.1	843.9	845.7	847.5	849.3	850.9	852.6
140°	860.9	862.3	863.7	865.0	866.8	868.7	870.6	872.5	874.4	876.0	877.5
142.5°	883.4	884.7	885.9	887.2	888.9	891.0	893.3	895.5	897.7	899.1	900.5
145°	917.5	917.3	917.1	917.0	918.3	921.4	924.3	927.3	930.2	931.4	932.7
147.5°	948.0	947.4	946.7	946.0	947.1	950.0	953.0	956.0	958.9	959.8	960.7
150°	967.6	966.3	965.1	963.9	964.7	967.5	970.3	973.1	975.9	976.9	977.9
152.5°	984.4	983.0	981.7	980.3	980.9	983.6	986.3	988.9	991.6	992.6	993.7
155°	1008.9	1007.3	1005.7	1004.2	1004.4	1006.5	1008.7	1010.7	1012.8	1013.8	1014.9
157.5°	1028.5	1027.2	1025.8	1024.5	1024.6	1026.1	1027.5	1029.0	1030.4	1031.7	1032.8
160°	1040.1	1039.1	1037.9	1036.9	1036.9	1037.9	1039.1	1040.1	1041.1	1042.2	1043.2
162.5°	1050.2	1049.1	1048.0	1047.0	1046.9	1047.8	1048.7	1049.6	1050.6	1051.7	1052.9
165°	1063.7	1062.6	1061.5	1060.5	1060.2	1060.8	1061.3	1061.9	1062.4	1063.6	1064.8
167.5°	1073.8	1072.7	1071.6	1070.6	1070.3	1070.8	1071.3	1071.8	1072.3	1073.5	1074.7
170°	1079.3	1078.3	1077.3	1076.2	1075.9	1076.2	1076.6	1076.9	1077.3	1078.5	1079.8
172.5°	1083.1	1082.1	1081.1	1080.0	1079.7	1080.0	1080.4	1080.7	1081.1	1082.3	1083.5
175°	1087.9	1086.7	1085.4	1084.2	1083.7	1084.1	1084.4	1084.8	1085.1	1086.4	1087.6
177.5°	1088.9	1088.0	1086.9	1086.0	1085.5	1085.7	1085.8	1086.0	1086.1	1087.1	1088.0
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1541.9	1548.3	1548.3	1549.2	1556.5	1555.6	1555.1
5°	1640.8	1650.5	1651.7	1662.0	1668.8	1666.6	1660.3
7.5°	1734.1	1752.2	1765.9	1773.6	1782.6	1788.2	1785.7
10°	1808.2	1834.4	1850.5	1861.3	1874.5	1884.2	1880.8
12.5°	1875.4	1906.7	1928.6	1947.2	1949.0	1961.4	1953.0
15°	1980.2	2013.3	2016.7	2030.4	2041.3	2040.1	2040.7
17.5°	2014.8	2025.4	2027.6	2027.9	2028.1	2024.0	2015.3
20°	2002.4	1998.5	1988.7	1981.3	1968.2	1966.4	1955.1
22.5°	1944.0	1931.3	1906.9	1890.8	1870.4	1865.0	1861.8
25°	1828.8	1800.8	1762.0	1724.8	1714.5	1694.5	1700.2
27.5°	1670.8	1627.1	1585.0	1554.9	1527.6	1497.6	1506.2
30°	1559.7	1510.5	1451.1	1405.4	1376.3	1347.7	1342.6
32.5°	1427.1	1355.1	1288.9	1248.6	1204.0	1185.9	1166.1
35°	1198.6	1128.3	1062.6	1006.1	973.5	948.4	925.5
37.5°	993.1	912.1	859.1	813.3	789.8	775.4	779.0
40°	865.6	794.7	755.9	721.0	699.3	689.0	691.3
42.5°	762.2	709.2	677.3	653.3	638.0	632.3	630.9
45°	645.0	615.3	589.0	575.3	567.9	561.6	557.6
47.5°	565.0	540.8	526.0	517.8	511.3	504.9	504.8
50°	517.0	501.0	490.8	482.2	477.1	472.5	476.5
52.5°	480.4	465.9	455.6	447.9	446.0	441.9	441.8
55°	426.2	414.7	407.3	400.5	397.1	394.8	391.9
57.5°	376.9	366.0	359.1	354.8	348.3	345.9	345.1
60°	341.6	333.0	326.2	320.5	317.6	313.1	313.1
62.5°	309.2	300.7	294.2	289.9	285.2	283.4	283.9
65°	262.3	255.4	249.1	244.5	243.4	240.0	241.1
67.5°	219.0	214.5	207.8	205.3	203.2	201.3	199.9
70°	190.3	185.7	182.3	178.8	177.1	177.1	177.1
72.5°	166.0	160.6	158.5	154.1	155.2	153.3	151.5
75°	128.5	125.1	123.4	121.7	118.8	118.8	118.8
77.5°	94.6	93.6	91.5	89.7	89.0	88.4	88.7
80°	73.1	72.6	71.4	71.4	70.3	69.7	68.5
82.5°	56.2	54.8	54.1	53.6	53.4	53.2	53.0
85°	32.0	30.8	30.8	31.4	30.3	30.3	30.8
87.5°	16.0	16.2	15.8	15.9	16.4	16.1	16.1
90°	18.3	19.2	19.8	20.1	20.5	20.9	21.3
92.5°	19.6	20.1	20.4	20.6	20.8	21.0	21.3
95°	33.3	34.2	34.5	34.4	34.2	34.0	33.8
97.5°	43.1	43.8	44.3	44.5	44.7	44.9	45.1
100°	49.0	50.5	51.3	51.7	52.0	52.3	52.7
102.5°	51.6	53.4	54.5	55.0	55.4	56.0	56.5
105°	53.7	55.6	57.0	57.7	58.4	59.1	59.8
107.5°	61.3	59.3	58.7	59.4	60.1	60.8	61.5
110°	85.2	67.7	59.3	60.0	60.7	61.4	62.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	155.8	92.1	60.5	61.0	61.6	62.2	62.8
115°	242.5	161.5	114.8	102.2	89.6	77.1	64.5
117.5°	478.7	459.1	428.6	387.3	345.9	304.6	263.3
120°	582.7	584.8	574.0	550.4	526.8	503.3	479.7
122.5°	617.3	618.5	616.9	612.3	607.7	603.1	598.6
125°	668.1	669.3	670.2	670.7	671.2	671.8	672.4
127.5°	715.7	717.6	718.4	718.6	718.7	718.8	718.8
130°	745.7	747.6	748.6	748.4	748.1	748.0	747.8
132.5°	774.5	776.1	776.8	776.6	776.4	776.3	776.1
135°	816.0	817.7	818.4	818.0	817.7	817.3	817.0
137.5°	854.4	856.1	856.7	856.1	855.5	854.9	854.3
140°	879.2	880.7	881.1	880.2	879.3	878.5	877.5
142.5°	902.0	903.4	903.7	902.8	902.0	901.1	900.2
145°	933.9	935.1	935.3	934.4	933.6	932.7	931.9
147.5°	961.6	962.5	962.6	961.8	961.1	960.4	959.7
150°	979.0	980.1	980.2	979.3	978.4	977.5	976.6
152.5°	994.7	995.7	995.7	994.5	993.4	992.3	991.1
155°	1016.0	1017.0	1016.8	1015.5	1014.0	1012.6	1011.2
157.5°	1034.0	1035.2	1035.1	1033.7	1032.3	1031.0	1029.7
160°	1044.3	1045.3	1045.3	1044.0	1042.8	1041.6	1040.3
162.5°	1054.1	1055.3	1055.2	1053.7	1052.1	1050.7	1049.1
165°	1066.0	1067.2	1067.2	1066.0	1064.8	1063.6	1062.4
167.5°	1075.9	1077.2	1076.9	1075.4	1073.8	1072.3	1070.7
170°	1081.0	1082.2	1082.0	1080.5	1078.8	1077.3	1075.7
172.5°	1084.8	1086.0	1085.8	1084.2	1082.6	1081.1	1079.5
175°	1088.8	1090.0	1089.8	1088.0	1086.3	1084.5	1082.8
177.5°	1089.1	1090.0	1089.9	1088.6	1087.4	1086.1	1084.9
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8

(END OF REPORT)