

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: P331834-940

Luminaire Tested: **S122RDIW-S865D970U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331834-940  
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-S865D970U940-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

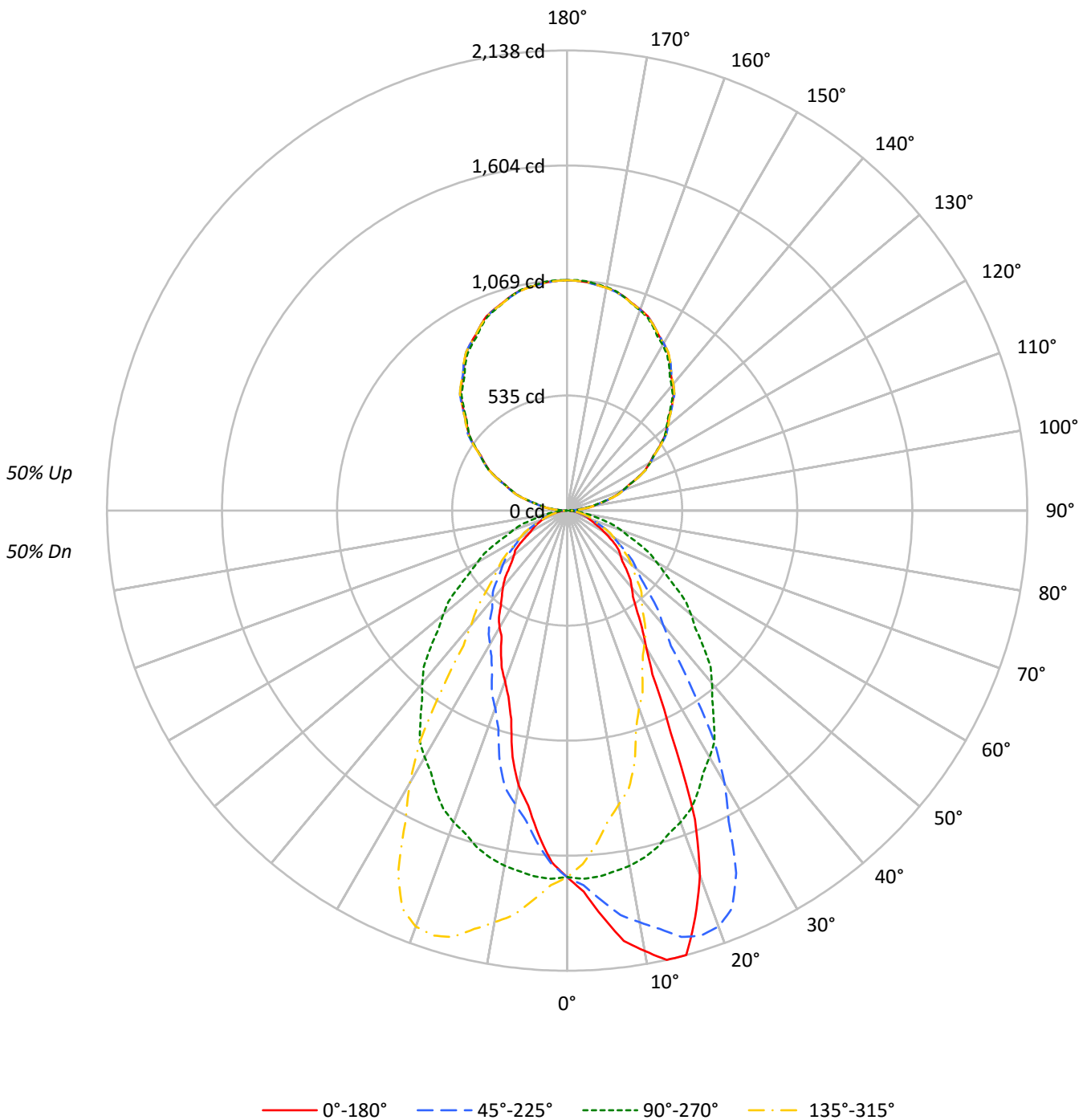
Lumens per Lamp: N/A  
Luminaire Lumens: 5939.7 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (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	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	98	94	91	88	91	87	84	81	74	72	70		62	60	59		50	49	49	43
2	90	83	78	73	83	77	72	68	66	62	59		55	53	50		45	44	42	38
3	83	74	67	62	76	69	63	58	59	54	51		50	46	44		41	39	37	33
4	76	66	59	53	70	62	55	50	53	48	44		45	41	38		37	35	33	29
5	70	59	52	46	65	55	49	44	48	43	39		41	37	34		34	31	29	26
6	65	54	46	40	60	50	43	38	43	38	34		37	33	30		31	28	26	23
7	61	49	41	36	56	46	39	34	40	34	30		34	30	27		29	26	23	21
8	56	45	37	32	52	42	35	31	36	31	27		31	27	24		27	24	21	19
9	53	41	34	29	49	38	32	28	34	28	25		29	25	22		25	22	20	17
10	49	38	31	26	46	35	29	25	31	26	23		27	23	20		23	20	18	16

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

	0°	90°	180°	270°
0°	27493	27493	27493	27493
5°	30705	27665	24530	27665
10°	34067	27471	21263	27471
15°	35741	27067	16754	27067
20°	30986	26472	14496	26472
25°	20322	25655	12944	25655
30°	13679	24664	11714	24664
35°	11077	23416	10565	23416
40°	9851	22059	9778	22059
45°	8917	20466	8727	20466
50°	8116	18889	8083	18889
55°	7628	17140	7527	17140
60°	6381	15532	6307	15532
65°	5379	14105	6101	14105
70°	4971	12595	5755	12595
75°	4648	10967	5315	10967
80°	4296	9019	4733	9019
85°	3946	7114	4168	7114



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.4	2.7
10°-20°	449.8	7.6
20°-30°	579.6	9.8
30°-40°	550.8	9.3
40°-50°	471.8	7.9
50°-60°	359.3	6.0
60°-70°	227.1	3.8
70°-80°	113.4	1.9
80°-90°	33.8	0.6
90°-100°	67.8	1.1
100°-110°	210.6	3.5
110°-120°	360.0	6.1
120°-130°	473.5	8.0
130°-140°	531.4	8.9
140°-150°	521.1	8.8
150°-160°	437.0	7.4
160°-170°	289.9	4.9
170°-180°	101.3	1.7
0°-30°	1190.8	20.0
0°-40°	1741.6	29.3
0°-60°	2572.7	43.3
0°-90°	2947.1	49.6
90°-120°	638.5	10.7
90°-150°	2164.4	36.4
90°-180°	2993.0	50.4
0°-180°	5939.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1703	1703	1703	1703	1703	
5°	1894	1707	1514	1707	1894	187
15°	2138	1619	1002	1619	2138	577
25°	1141	1440	727	1440	1141	541
35°	562	1188	536	1188	562	360
45°	390	896	382	896	390	302
55°	271	609	267	609	271	238
65°	141	369	160	369	141	143
75°	74	176	85	176	74	79
85°	21	38	22	38	21	24
90°	31	1	31	1	31	14
95°	56	47	56	47	56	62
105°	200	194	200	194	200	211
115°	361	361	361	361	361	357
125°	527	526	527	526	527	470
135°	688	680	688	680	688	530
145°	835	826	835	826	835	521
155°	951	944	951	944	951	438
165°	1028	1027	1028	1027	1028	290
175°	1065	1068	1065	1068	1065	101
180°	1070	1070	1070	1070	1070	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1771.9	1773.3	1774.8	1771.4	1771.4	1768.6	1762.5	1757.7	1744.5	1742.6	1742.6
5°	1894.5	1893.3	1895.7	1888.0	1877.3	1875.0	1863.8	1849.0	1833.5	1816.4	1812.8
7.5°	2016.3	2014.6	2009.8	2008.6	2000.4	1982.5	1964.4	1945.2	1919.6	1894.6	1882.0
10°	2077.9	2097.4	2085.6	2064.8	2069.0	2041.2	2026.4	2001.0	1979.7	1942.4	1934.1
12.5°	2138.5	2146.2	2142.4	2130.7	2125.4	2106.0	2086.1	2064.0	2024.6	1991.2	1962.0
15°	2138.2	2149.5	2152.4	2148.9	2151.9	2150.7	2140.0	2121.6	2087.4	2050.7	2018.7
17.5°	1980.4	1988.2	2007.6	2020.7	2037.3	2072.3	2089.6	2096.3	2091.2	2070.3	2047.8
20°	1803.4	1790.4	1844.8	1872.6	1896.2	1955.4	2006.3	2025.9	2057.2	2056.6	2050.7
22.5°	1552.5	1555.6	1607.2	1640.2	1709.3	1768.4	1826.5	1900.0	1960.6	2000.7	2024.2
25°	1140.7	1163.2	1214.7	1259.6	1336.6	1446.6	1546.6	1662.6	1772.0	1858.4	1940.6
27.5°	856.8	858.4	899.2	940.8	986.4	1076.6	1202.5	1341.0	1497.0	1625.8	1773.9
30°	733.7	730.1	747.3	772.7	811.7	881.5	976.2	1112.3	1267.9	1462.0	1634.8
32.5°	646.6	646.8	659.7	678.5	711.0	758.0	822.9	933.4	1080.5	1271.2	1473.8
35°	562.0	561.5	571.0	584.5	598.2	628.3	672.7	730.7	831.9	1010.0	1217.0
37.5°	501.5	504.1	508.7	517.2	532.3	549.0	575.7	614.7	686.7	792.0	966.1
40°	467.4	468.6	475.1	482.2	491.1	504.1	526.0	557.3	610.0	694.0	821.2
42.5°	436.1	437.4	441.9	448.6	455.6	468.6	486.7	513.8	556.5	622.1	727.0
45°	390.5	390.5	394.7	397.6	405.3	417.1	431.9	454.4	483.9	532.5	602.4
47.5°	347.7	347.8	350.5	355.6	360.4	369.7	384.2	402.6	424.1	461.6	521.3
50°	323.1	323.6	325.4	329.6	332.5	340.8	352.0	368.0	390.5	419.5	469.2
52.5°	303.2	302.8	305.1	306.8	308.9	314.8	323.2	337.2	357.4	382.5	423.7
55°	271.0	268.6	272.2	275.1	276.9	279.3	284.0	292.8	310.0	331.4	362.1
57.5°	230.8	229.8	232.3	235.0	240.6	246.9	251.0	256.6	265.6	280.8	311.3
60°	197.6	197.6	203.0	204.7	211.2	219.5	227.8	232.6	241.4	251.5	273.9
62.5°	168.3	168.7	171.2	173.0	176.6	186.8	198.4	208.8	217.2	226.9	241.7
65°	140.8	142.0	142.0	143.2	145.5	147.9	152.7	161.0	175.8	189.3	200.5
67.5°	119.5	119.8	120.2	121.5	122.0	124.6	126.5	130.2	133.6	146.5	160.4
70°	105.3	107.1	106.5	107.7	108.3	109.4	111.8	113.6	119.0	121.9	130.2
72.5°	92.0	93.4	93.3	94.0	95.5	95.8	97.6	99.4	102.8	105.3	109.8
75°	74.5	73.9	74.5	75.7	76.3	77.0	77.0	79.3	81.1	83.5	86.4
77.5°	57.5	58.1	58.0	58.1	58.2	59.3	59.2	60.2	62.0	63.2	64.6
80°	46.2	46.7	46.2	46.7	47.3	47.9	47.3	47.9	49.7	50.9	50.9
82.5°	35.8	35.8	36.2	36.3	36.5	36.6	37.4	37.5	38.8	38.6	39.1
85°	21.3	20.7	20.7	20.7	21.3	21.8	21.3	21.3	21.8	21.8	21.8
87.5°	13.7	14.2	14.1	14.1	14.0	14.1	14.1	14.7	14.3	14.8	13.5
90°	30.7	30.5	30.3	30.1	29.9	30.0	30.4	30.8	31.2	31.6	27.2
92.5°	29.2	29.2	29.2	29.2	29.1	29.1	29.0	28.9	28.8	28.7	27.6
95°	56.0	56.4	56.8	57.2	57.6	57.8	57.8	57.8	57.8	57.8	57.4
97.5°	97.0	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	96.4
100°	123.8	123.9	124.1	124.3	124.6	124.7	124.7	124.7	124.7	124.7	124.0
102.5°	154.1	154.3	154.4	154.7	154.9	154.9	154.7	154.6	154.4	154.3	153.5
105°	200.5	200.5	200.5	200.5	200.5	200.3	199.9	199.5	199.1	198.7	198.3
107.5°	244.2	245.1	246.0	247.0	247.9	248.3	248.2	248.0	247.8	247.6	247.6
110°	278.2	278.7	279.4	280.0	280.6	280.9	280.9	280.9	280.9	280.9	280.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	310.7	311.1	311.6	312.0	312.5	312.9	313.4	313.9	314.3	314.9	315.0
115°	361.2	361.9	362.5	363.1	363.6	364.1	364.3	364.4	364.7	364.9	365.2
117.5°	409.5	410.1	410.7	411.3	411.9	412.4	413.0	413.4	413.9	414.4	415.5
120°	443.4	444.1	444.7	445.2	445.9	446.2	446.2	446.2	446.2	446.2	447.8
122.5°	476.7	477.2	477.6	478.0	478.5	478.9	479.4	479.9	480.4	480.8	482.0
125°	527.4	527.6	527.9	528.1	528.2	528.7	529.2	529.9	530.5	531.1	531.6
127.5°	573.7	574.4	575.0	575.6	576.2	576.9	577.7	578.4	579.1	579.9	580.6
130°	606.9	607.7	608.5	609.3	610.1	610.7	611.2	611.5	612.0	612.3	612.8
132.5°	638.7	639.4	640.0	640.7	641.3	642.0	642.9	643.8	644.7	645.6	645.5
135°	688.2	688.8	689.4	690.0	690.6	691.0	691.3	691.4	691.6	691.8	691.4
137.5°	733.0	733.8	734.6	735.4	736.2	736.7	736.9	737.0	737.2	737.4	736.8
140°	764.1	764.9	765.7	766.5	767.3	767.7	767.7	767.7	767.7	767.7	766.7
142.5°	792.3	793.1	793.9	794.7	795.5	795.8	795.7	795.5	795.3	795.1	794.5
145°	834.6	835.4	836.2	837.0	837.8	838.0	837.9	837.7	837.4	837.2	836.1
147.5°	872.3	873.1	873.8	874.6	875.3	875.5	875.0	874.6	874.1	873.7	872.9
150°	896.9	897.4	898.0	898.7	899.3	899.3	898.7	898.0	897.4	896.9	896.1
152.5°	920.0	920.7	921.5	922.3	923.0	923.0	922.3	921.5	920.7	920.0	919.0
155°	951.0	951.6	952.3	952.9	953.4	953.2	952.3	951.3	950.2	949.2	948.6
157.5°	977.8	978.7	979.7	980.7	981.6	981.4	980.1	978.7	977.3	976.0	975.6
160°	994.4	995.2	996.0	996.8	997.6	997.4	996.2	995.0	993.8	992.6	992.4
162.5°	1008.9	1009.8	1010.8	1011.7	1012.7	1012.5	1011.1	1009.8	1008.4	1007.0	1006.8
165°	1027.8	1028.9	1029.8	1030.8	1031.8	1031.6	1030.2	1028.9	1027.4	1026.0	1026.0
167.5°	1043.4	1044.4	1045.4	1046.5	1047.5	1047.3	1046.0	1044.6	1043.1	1041.7	1041.8
170°	1051.3	1052.5	1053.7	1054.9	1056.1	1056.1	1054.6	1053.2	1051.8	1050.4	1050.6
172.5°	1057.8	1059.0	1060.2	1061.4	1062.7	1062.5	1061.1	1059.7	1058.3	1056.9	1057.1
175°	1064.9	1066.0	1067.3	1068.4	1069.7	1069.5	1068.2	1066.8	1065.3	1063.9	1064.3
177.5°	1068.1	1069.1	1070.1	1070.9	1071.9	1071.9	1070.9	1070.1	1069.1	1068.1	1068.4
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1743.5	1739.7	1736.4	1727.9	1723.6	1714.1	1712.7	1712.3	1700.0	1688.1	1684.8
5°	1803.4	1793.9	1779.7	1763.2	1746.0	1728.2	1716.4	1706.9	1683.3	1660.8	1647.8
7.5°	1863.8	1843.3	1818.9	1787.5	1761.4	1732.1	1710.2	1690.7	1657.2	1625.0	1603.3
10°	1908.7	1875.5	1843.0	1799.8	1766.1	1733.0	1702.2	1675.6	1637.7	1595.1	1565.0
12.5°	1936.6	1900.1	1855.3	1813.1	1769.4	1727.2	1686.1	1651.9	1607.4	1563.4	1527.5
15°	1974.3	1935.3	1880.9	1820.5	1764.3	1709.3	1662.0	1619.3	1561.4	1508.7	1464.9
17.5°	2005.3	1951.5	1893.1	1823.3	1758.2	1688.3	1627.3	1572.9	1508.3	1444.8	1393.2
20°	2015.2	1961.9	1894.5	1824.7	1747.8	1665.5	1599.8	1540.7	1471.4	1402.2	1343.1
22.5°	2009.0	1967.6	1892.6	1809.0	1730.3	1644.2	1570.0	1501.4	1424.6	1354.0	1285.3
25°	1967.3	1953.0	1882.0	1790.9	1701.0	1601.1	1515.2	1440.1	1352.5	1276.8	1202.2
27.5°	1869.9	1900.5	1856.5	1759.4	1659.5	1552.3	1455.8	1370.3	1279.4	1194.2	1119.9
30°	1776.2	1846.6	1827.7	1737.7	1625.9	1520.5	1412.3	1322.9	1225.9	1138.4	1065.0
32.5°	1647.9	1764.2	1782.7	1707.4	1591.8	1476.0	1362.6	1273.7	1172.4	1080.1	1008.6
35°	1443.7	1617.6	1697.5	1649.6	1533.6	1408.7	1291.6	1188.0	1086.3	995.1	924.2
37.5°	1200.0	1436.9	1570.0	1573.4	1467.0	1337.1	1209.6	1106.8	1002.6	913.2	836.3
40°	1041.9	1298.7	1472.0	1510.5	1420.6	1280.3	1151.4	1046.6	944.9	857.3	769.2
42.5°	899.9	1155.7	1368.9	1435.7	1364.2	1224.9	1095.6	986.1	887.2	804.3	714.3
45°	727.7	951.4	1186.2	1305.8	1266.1	1137.2	1000.5	896.3	803.4	731.9	645.5
47.5°	613.9	771.5	998.8	1160.5	1159.8	1042.1	907.6	807.9	721.7	654.6	584.7
50°	549.0	686.3	878.6	1062.0	1077.4	978.6	850.8	752.0	671.5	601.1	544.9
52.5°	490.8	604.0	776.9	952.7	996.5	910.9	786.9	695.7	617.6	552.9	504.7
55°	414.7	502.3	633.6	798.2	864.4	804.1	694.0	608.9	545.5	491.1	449.7
57.5°	350.9	416.5	521.9	654.3	731.6	693.6	602.8	533.6	479.4	430.2	397.4
60°	310.6	364.4	453.8	564.5	649.6	623.0	545.5	481.0	434.9	392.3	361.5
62.5°	272.8	319.1	395.6	485.4	563.5	552.5	489.2	435.1	394.7	355.8	329.8
65°	219.5	253.2	313.0	383.4	446.1	451.5	405.9	369.2	333.1	302.4	279.3
67.5°	174.8	196.8	238.9	298.2	345.2	361.9	334.1	306.1	277.5	253.7	233.7
70°	147.3	165.1	195.8	243.8	287.0	304.7	288.7	266.8	242.0	222.5	205.3
72.5°	119.4	136.7	159.3	194.6	231.6	250.7	245.2	229.4	209.3	193.1	176.9
75°	90.0	95.2	110.7	134.3	163.3	179.9	184.0	175.8	159.7	147.3	137.9
77.5°	66.5	69.7	77.0	89.4	108.4	123.1	129.2	128.2	117.3	110.0	101.2
80°	53.2	55.0	58.6	63.9	78.1	92.9	97.0	97.0	89.3	86.4	77.5
82.5°	40.5	41.7	43.9	46.8	53.5	66.3	71.0	72.0	67.1	63.2	56.2
85°	23.1	22.5	23.6	25.4	26.7	30.1	37.3	38.4	37.3	32.5	30.8
87.5°	12.6	12.2	11.3	10.2	10.2	10.2	12.0	13.9	12.5	11.6	11.1
90°	22.7	18.4	13.9	10.5	8.1	5.7	3.3	0.9	3.3	5.7	8.1
92.5°	26.7	25.6	24.5	23.2	21.4	19.6	17.8	16.1	17.8	19.6	21.4
95°	57.0	56.6	56.2	55.0	53.0	51.0	49.0	47.0	49.0	51.0	53.0
97.5°	95.7	94.9	94.2	92.8	91.1	89.3	87.6	85.8	87.6	89.3	91.1
100°	123.4	122.8	122.3	121.1	119.5	117.9	116.3	114.7	116.3	117.9	119.5
102.5°	152.8	151.9	151.2	150.2	148.9	147.6	146.3	145.1	146.3	147.6	148.9
105°	197.9	197.5	197.1	196.6	196.0	195.4	194.7	194.2	194.7	195.4	196.0
107.5°	247.6	247.6	247.6	247.2	246.3	245.4	244.6	243.7	244.6	245.4	246.3
110°	280.9	280.9	280.9	280.3	279.1	277.9	276.7	275.4	276.7	277.9	279.1





TEST NUMBER: P331834-940

CATALOG NUMBER: S122RDIW-S865D970U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	315.1	315.3	315.5	315.0	313.8	312.5	311.4	310.1	311.4	312.5	313.8
115°	365.7	366.0	366.5	366.0	364.9	363.6	362.5	361.2	362.5	363.6	364.9
117.5°	416.6	417.8	418.8	418.7	417.1	415.4	413.8	412.2	413.8	415.4	417.1
120°	449.4	451.0	452.6	452.6	451.0	449.4	447.8	446.2	447.8	449.4	451.0
122.5°	483.1	484.2	485.4	484.9	483.0	481.1	479.2	477.2	479.2	481.1	483.0
125°	532.3	532.9	533.5	532.9	531.1	529.2	527.4	525.7	527.4	529.2	531.1
127.5°	581.3	582.0	582.7	581.9	579.7	577.4	575.1	572.8	575.1	577.4	579.7
130°	613.1	613.6	613.9	612.9	610.3	607.6	605.0	602.4	605.0	607.6	610.3
132.5°	645.4	645.3	645.2	644.2	642.0	639.9	637.8	635.6	637.8	639.9	642.0
135°	691.0	690.6	690.2	688.9	686.7	684.5	682.3	680.1	682.3	684.5	686.7
137.5°	736.3	735.8	735.3	734.1	732.3	730.5	728.7	726.8	728.7	730.5	732.3
140°	765.7	764.7	763.7	762.2	760.5	758.7	756.9	755.0	756.9	758.7	760.5
142.5°	793.8	793.1	792.5	791.2	789.3	787.6	785.8	784.0	785.8	787.6	789.3
145°	834.8	833.7	832.4	831.2	829.7	828.3	826.9	825.5	826.9	828.3	829.7
147.5°	872.1	871.3	870.5	869.2	867.5	865.9	864.2	862.6	864.2	865.9	867.5
150°	895.3	894.5	893.7	892.6	891.4	890.2	889.0	887.8	889.0	890.2	891.4
152.5°	918.0	917.1	916.1	915.1	913.8	912.7	911.4	910.3	911.4	912.7	913.8
155°	948.1	947.4	946.8	946.2	945.7	945.0	944.4	943.8	944.4	945.0	945.7
157.5°	975.3	974.9	974.6	974.1	973.7	973.3	972.9	972.5	972.9	973.3	973.7
160°	992.2	992.0	991.8	991.5	991.0	990.7	990.2	989.9	990.2	990.7	991.0
162.5°	1006.7	1006.5	1006.2	1006.1	1006.0	1005.9	1005.8	1005.8	1005.8	1005.9	1006.0
165°	1026.0	1026.0	1026.0	1026.1	1026.3	1026.5	1026.7	1026.9	1026.7	1026.5	1026.3
167.5°	1041.8	1041.9	1041.9	1042.2	1042.8	1043.4	1044.0	1044.6	1044.0	1043.4	1042.8
170°	1050.8	1051.0	1051.2	1051.6	1052.2	1052.8	1053.4	1054.0	1053.4	1052.8	1052.2
172.5°	1057.3	1057.5	1057.7	1058.1	1058.7	1059.3	1059.9	1060.5	1059.9	1059.3	1058.7
175°	1064.7	1065.1	1065.5	1066.0	1066.7	1067.3	1067.8	1068.4	1067.8	1067.3	1066.7
177.5°	1068.7	1069.1	1069.3	1069.8	1070.2	1070.8	1071.2	1071.7	1071.2	1070.8	1070.2
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2



TEST NUMBER: P331834-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1678.6	1675.3	1669.2	1659.7	1654.0	1644.1	1637.4	1641.3	1642.2	1641.3	1640.3
5°	1633.5	1621.1	1604.0	1587.4	1572.0	1555.5	1546.0	1541.9	1533.6	1528.8	1526.5
7.5°	1579.0	1557.6	1533.3	1504.5	1480.0	1454.3	1441.2	1434.7	1417.7	1408.5	1400.4
10°	1538.3	1504.6	1480.3	1442.4	1419.4	1385.6	1362.6	1363.2	1340.1	1327.0	1317.6
12.5°	1493.3	1456.3	1415.9	1381.9	1349.8	1322.7	1294.9	1283.6	1259.2	1246.6	1221.0
15°	1418.8	1375.6	1333.0	1286.8	1254.3	1212.3	1172.1	1122.9	1083.3	1049.0	1039.6
17.5°	1337.4	1283.9	1241.2	1187.0	1131.2	1060.6	1014.0	985.4	961.5	943.4	930.0
20°	1281.6	1227.1	1181.5	1099.9	1024.8	976.9	942.5	920.6	895.8	876.3	865.6
22.5°	1222.8	1166.0	1103.9	1012.8	954.2	915.8	885.2	860.1	843.2	828.0	818.2
25°	1139.5	1077.4	975.1	912.3	865.0	824.7	803.4	788.1	770.3	749.7	740.1
27.5°	1051.5	952.7	879.2	832.6	787.4	761.3	742.1	719.1	703.2	693.9	684.0
30°	985.7	886.9	829.5	778.6	746.6	717.6	695.2	682.2	666.8	650.9	644.4
32.5°	912.3	833.4	778.4	736.0	703.6	678.9	661.1	640.1	628.9	619.1	605.5
35°	821.2	761.4	711.1	676.9	646.1	626.0	605.3	592.8	572.7	564.5	559.1
37.5°	744.0	692.2	654.7	618.5	594.1	571.9	559.2	539.5	530.7	519.2	508.0
40°	700.5	649.6	613.6	584.0	556.8	540.2	524.2	508.3	495.3	489.9	476.3
42.5°	656.0	614.7	578.5	546.1	527.9	510.3	490.2	478.4	464.9	456.3	447.9
45°	594.6	557.9	527.2	500.5	480.5	462.1	449.1	429.5	421.9	404.7	397.6
47.5°	540.6	506.6	477.2	451.9	432.3	420.4	401.3	386.0	373.7	363.2	354.0
50°	502.3	473.9	445.5	423.0	405.3	388.2	368.6	360.9	342.0	336.6	331.4
52.5°	467.3	440.3	414.3	392.3	374.5	357.8	340.6	330.6	317.8	312.5	308.6
55°	418.3	392.3	367.4	347.9	330.1	313.0	302.4	289.9	284.0	279.8	275.1
57.5°	369.1	345.6	326.6	306.8	289.0	275.4	263.1	255.6	249.4	244.0	238.4
60°	337.9	315.3	298.2	279.8	261.5	250.3	240.8	231.9	224.8	216.5	214.2
62.5°	304.7	285.1	269.3	251.5	235.5	225.2	216.2	207.8	199.3	187.2	183.9
65°	259.1	243.8	227.2	212.4	198.2	188.2	175.1	165.7	162.1	161.0	160.3
67.5°	217.9	203.4	189.2	174.1	161.1	151.9	145.2	143.7	141.2	140.5	138.9
70°	190.5	176.9	162.7	148.5	136.1	134.3	132.0	129.6	126.6	125.5	124.2
72.5°	165.9	151.9	137.6	126.3	120.9	118.7	116.3	114.0	111.9	110.8	110.0
75°	127.2	114.2	104.7	100.6	97.6	95.9	92.3	90.5	89.3	87.6	86.9
77.5°	91.6	84.3	79.9	77.3	74.2	72.3	70.3	68.5	67.2	66.9	65.9
80°	69.8	66.3	63.3	59.7	58.6	56.2	55.6	53.9	54.4	52.7	52.7
82.5°	54.2	49.7	47.2	45.6	44.4	42.4	41.9	41.0	41.2	39.9	39.9
85°	27.8	26.7	25.4	24.3	24.3	22.5	23.1	22.5	22.5	21.3	20.7
87.5°	11.1	11.3	11.2	12.1	13.0	13.5	13.4	12.8	12.8	12.7	12.1
90°	10.5	13.9	18.4	22.7	27.2	31.6	31.2	30.8	30.4	30.0	29.9
92.5°	23.2	24.5	25.6	26.7	27.6	28.7	28.8	28.9	29.0	29.1	29.1
95°	55.0	56.2	56.6	57.0	57.4	57.8	57.8	57.8	57.8	57.8	57.6
97.5°	92.8	94.2	94.9	95.7	96.4	97.2	97.2	97.2	97.2	97.2	97.2
100°	121.1	122.3	122.8	123.4	124.0	124.7	124.7	124.7	124.7	124.7	124.6
102.5°	150.2	151.2	151.9	152.8	153.5	154.3	154.4	154.6	154.7	154.9	154.9
105°	196.6	197.1	197.5	197.9	198.3	198.7	199.1	199.5	199.9	200.3	200.5
107.5°	247.2	247.6	247.6	247.6	247.6	247.6	247.8	248.0	248.2	248.3	247.9
110°	280.3	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.6



TEST NUMBER: P331834-940

CATALOG NUMBER: S122RDIW-S865D970U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	315.0	315.5	315.3	315.1	315.0	314.9	314.3	313.9	313.4	312.9	312.5
115°	366.0	366.5	366.0	365.7	365.2	364.9	364.7	364.4	364.3	364.1	363.6
117.5°	418.7	418.8	417.8	416.6	415.5	414.4	413.9	413.4	413.0	412.4	411.9
120°	452.6	452.6	451.0	449.4	447.8	446.2	446.2	446.2	446.2	446.2	445.9
122.5°	484.9	485.4	484.2	483.1	482.0	480.8	480.4	479.9	479.4	478.9	478.5
125°	532.9	533.5	532.9	532.3	531.6	531.1	530.5	529.9	529.2	528.7	528.2
127.5°	581.9	582.7	582.0	581.3	580.6	579.9	579.1	578.4	577.7	576.9	576.2
130°	612.9	613.9	613.6	613.1	612.8	612.3	612.0	611.5	611.2	610.7	610.1
132.5°	644.2	645.2	645.3	645.4	645.5	645.6	644.7	643.8	642.9	642.0	641.3
135°	688.9	690.2	690.6	691.0	691.4	691.8	691.6	691.4	691.3	691.0	690.6
137.5°	734.1	735.3	735.8	736.3	736.8	737.4	737.2	737.0	736.9	736.7	736.2
140°	762.2	763.7	764.7	765.7	766.7	767.7	767.7	767.7	767.7	767.7	767.3
142.5°	791.2	792.5	793.1	793.8	794.5	795.1	795.3	795.5	795.7	795.8	795.5
145°	831.2	832.4	833.7	834.8	836.1	837.2	837.4	837.7	837.9	838.0	837.8
147.5°	869.2	870.5	871.3	872.1	872.9	873.7	874.1	874.6	875.0	875.5	875.3
150°	892.6	893.7	894.5	895.3	896.1	896.9	897.4	898.0	898.7	899.3	899.3
152.5°	915.1	916.1	917.1	918.0	919.0	920.0	920.7	921.5	922.3	923.0	923.0
155°	946.2	946.8	947.4	948.1	948.6	949.2	950.2	951.3	952.3	953.2	953.4
157.5°	974.1	974.6	974.9	975.3	975.6	976.0	977.3	978.7	980.1	981.4	981.6
160°	991.5	991.8	992.0	992.2	992.4	992.6	993.8	995.0	996.2	997.4	997.6
162.5°	1006.1	1006.2	1006.5	1006.7	1006.8	1007.0	1008.4	1009.8	1011.1	1012.5	1012.7
165°	1026.1	1026.0	1026.0	1026.0	1026.0	1026.0	1027.4	1028.9	1030.2	1031.6	1031.8
167.5°	1042.2	1041.9	1041.9	1041.8	1041.8	1041.7	1043.1	1044.6	1046.0	1047.3	1047.5
170°	1051.6	1051.2	1051.0	1050.8	1050.6	1050.4	1051.8	1053.2	1054.6	1056.1	1056.1
172.5°	1058.1	1057.7	1057.5	1057.3	1057.1	1056.9	1058.3	1059.7	1061.1	1062.5	1062.7
175°	1066.0	1065.5	1065.1	1064.7	1064.3	1063.9	1065.3	1066.8	1068.2	1069.5	1069.7
177.5°	1069.8	1069.3	1069.1	1068.7	1068.4	1068.1	1069.1	1070.1	1070.9	1071.9	1071.9
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1635.1	1636.0	1634.6	1635.6	1634.6	1636.0	1635.1	1640.3	1641.3	1642.2	1641.3
5°	1523.5	1516.4	1515.2	1513.5	1515.2	1516.4	1523.5	1526.5	1528.8	1533.6	1541.9
7.5°	1390.3	1389.2	1386.3	1382.2	1386.3	1389.2	1390.3	1400.4	1408.5	1417.7	1434.7
10°	1304.6	1301.6	1301.1	1296.9	1301.1	1301.6	1304.6	1317.6	1327.0	1340.1	1363.2
12.5°	1204.3	1185.2	1183.2	1172.9	1183.2	1185.2	1204.3	1221.0	1246.6	1259.2	1283.6
15°	1025.4	1021.8	1010.0	1002.3	1010.0	1021.8	1025.4	1039.6	1049.0	1083.3	1122.9
17.5°	923.1	911.5	907.9	906.2	907.9	911.5	923.1	930.0	943.4	961.5	985.4
20°	857.3	846.7	844.9	843.7	844.9	846.7	857.3	865.6	876.3	895.8	920.6
22.5°	811.9	800.8	796.1	792.6	796.1	800.8	811.9	818.2	828.0	843.2	860.1
25°	734.2	730.1	727.7	726.6	727.7	730.1	734.2	740.1	749.7	770.3	788.1
27.5°	673.5	664.4	662.6	659.6	662.6	664.4	673.5	684.0	693.9	703.2	719.1
30°	639.0	636.1	631.9	628.3	631.9	636.1	639.0	644.4	650.9	666.8	682.2
32.5°	598.2	595.8	592.1	590.5	592.1	595.8	598.2	605.5	619.1	628.9	640.1
35°	553.2	544.9	541.4	536.0	541.4	544.9	553.2	559.1	564.5	572.7	592.8
37.5°	505.5	501.1	496.1	497.9	496.1	501.1	505.5	508.0	519.2	530.7	539.5
40°	468.6	465.7	464.5	463.9	464.5	465.7	468.6	476.3	489.9	495.3	508.3
42.5°	439.3	431.1	428.0	427.8	428.0	431.1	439.3	447.9	456.3	464.9	478.4
45°	394.7	386.9	381.7	382.2	381.7	386.9	394.7	397.6	404.7	421.9	429.5
47.5°	348.9	348.7	345.4	346.5	345.4	348.7	348.9	354.0	363.2	373.7	386.0
50°	327.2	323.6	321.3	321.8	321.3	323.6	327.2	331.4	336.6	342.0	360.9
52.5°	306.4	303.3	301.4	303.9	301.4	303.3	306.4	308.6	312.5	317.8	330.6
55°	272.2	268.6	268.0	267.4	268.0	268.6	272.2	275.1	279.8	284.0	289.9
57.5°	234.0	231.6	228.0	226.5	228.0	231.6	234.0	238.4	244.0	249.4	255.6
60°	206.5	201.8	195.8	195.3	195.8	201.8	206.5	214.2	216.5	224.8	231.9
62.5°	181.4	180.5	179.2	179.1	179.2	180.5	181.4	183.9	187.2	199.3	207.8
65°	159.2	158.5	159.2	159.7	159.2	158.5	159.2	160.3	161.0	162.1	165.7
67.5°	138.7	137.6	136.5	137.1	136.5	137.6	138.7	138.9	140.5	141.2	143.7
70°	123.1	122.4	121.9	121.9	121.9	122.4	123.1	124.2	125.5	126.6	129.6
72.5°	107.9	107.8	107.2	106.7	107.2	107.8	107.9	110.0	110.8	111.9	114.0
75°	86.4	85.2	85.2	85.2	85.2	85.2	86.4	86.9	87.6	89.3	90.5
77.5°	65.8	65.2	64.6	64.1	64.6	65.2	65.8	65.9	66.9	67.2	68.5
80°	52.1	51.5	50.9	50.9	50.9	51.5	52.1	52.7	52.7	54.4	53.9
82.5°	39.8	39.1	39.1	38.6	39.1	39.1	39.8	39.9	39.9	41.2	41.0
85°	21.3	21.8	21.3	22.5	21.3	21.8	21.3	20.7	21.3	22.5	22.5
87.5°	12.2	11.8	12.2	11.9	12.2	11.8	12.2	12.1	12.7	12.8	12.8
90°	30.1	30.3	30.5	30.7	30.5	30.3	30.1	29.9	30.0	30.4	30.8
92.5°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.0	28.9
95°	57.2	56.8	56.4	56.0	56.4	56.8	57.2	57.6	57.8	57.8	57.8
97.5°	97.1	97.1	97.0	97.0	97.0	97.1	97.1	97.2	97.2	97.2	97.2
100°	124.3	124.1	123.9	123.8	123.9	124.1	124.3	124.6	124.7	124.7	124.7
102.5°	154.7	154.4	154.3	154.1	154.3	154.4	154.7	154.9	154.9	154.7	154.6
105°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.3	199.9	199.5
107.5°	247.0	246.0	245.1	244.2	245.1	246.0	247.0	247.9	248.3	248.2	248.0
110°	280.0	279.4	278.7	278.2	278.7	279.4	280.0	280.6	280.9	280.9	280.9



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	312.0	311.6	311.1	310.7	311.1	311.6	312.0	312.5	312.9	313.4	313.9
115°	363.1	362.5	361.9	361.2	361.9	362.5	363.1	363.6	364.1	364.3	364.4
117.5°	411.3	410.7	410.1	409.5	410.1	410.7	411.3	411.9	412.4	413.0	413.4
120°	445.2	444.7	444.1	443.4	444.1	444.7	445.2	445.9	446.2	446.2	446.2
122.5°	478.0	477.6	477.2	476.7	477.2	477.6	478.0	478.5	478.9	479.4	479.9
125°	528.1	527.9	527.6	527.4	527.6	527.9	528.1	528.2	528.7	529.2	529.9
127.5°	575.6	575.0	574.4	573.7	574.4	575.0	575.6	576.2	576.9	577.7	578.4
130°	609.3	608.5	607.7	606.9	607.7	608.5	609.3	610.1	610.7	611.2	611.5
132.5°	640.7	640.0	639.4	638.7	639.4	640.0	640.7	641.3	642.0	642.9	643.8
135°	690.0	689.4	688.8	688.2	688.8	689.4	690.0	690.6	691.0	691.3	691.4
137.5°	735.4	734.6	733.8	733.0	733.8	734.6	735.4	736.2	736.7	736.9	737.0
140°	766.5	765.7	764.9	764.1	764.9	765.7	766.5	767.3	767.7	767.7	767.7
142.5°	794.7	793.9	793.1	792.3	793.1	793.9	794.7	795.5	795.8	795.7	795.5
145°	837.0	836.2	835.4	834.6	835.4	836.2	837.0	837.8	838.0	837.9	837.7
147.5°	874.6	873.8	873.1	872.3	873.1	873.8	874.6	875.3	875.5	875.0	874.6
150°	898.7	898.0	897.4	896.9	897.4	898.0	898.7	899.3	899.3	898.7	898.0
152.5°	922.3	921.5	920.7	920.0	920.7	921.5	922.3	923.0	923.0	922.3	921.5
155°	952.9	952.3	951.6	951.0	951.6	952.3	952.9	953.4	953.2	952.3	951.3
157.5°	980.7	979.7	978.7	977.8	978.7	979.7	980.7	981.6	981.4	980.1	978.7
160°	996.8	996.0	995.2	994.4	995.2	996.0	996.8	997.6	997.4	996.2	995.0
162.5°	1011.7	1010.8	1009.8	1008.9	1009.8	1010.8	1011.7	1012.7	1012.5	1011.1	1009.8
165°	1030.8	1029.8	1028.9	1027.8	1028.9	1029.8	1030.8	1031.8	1031.6	1030.2	1028.9
167.5°	1046.5	1045.4	1044.4	1043.4	1044.4	1045.4	1046.5	1047.5	1047.3	1046.0	1044.6
170°	1054.9	1053.7	1052.5	1051.3	1052.5	1053.7	1054.9	1056.1	1056.1	1054.6	1053.2
172.5°	1061.4	1060.2	1059.0	1057.8	1059.0	1060.2	1061.4	1062.7	1062.5	1061.1	1059.7
175°	1068.4	1067.3	1066.0	1064.9	1066.0	1067.3	1068.4	1069.7	1069.5	1068.2	1066.8
177.5°	1070.9	1070.1	1069.1	1068.1	1069.1	1070.1	1070.9	1071.9	1071.9	1070.9	1070.1
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1637.4	1644.1	1654.0	1659.7	1669.2	1675.3	1678.6	1684.8	1688.1	1700.0	1712.3
5°	1546.0	1555.5	1572.0	1587.4	1604.0	1621.1	1633.5	1647.8	1660.8	1683.3	1706.9
7.5°	1441.2	1454.3	1480.0	1504.5	1533.3	1557.6	1579.0	1603.3	1625.0	1657.2	1690.7
10°	1362.6	1385.6	1419.4	1442.4	1480.3	1504.6	1538.3	1565.0	1595.1	1637.7	1675.6
12.5°	1294.9	1322.7	1349.8	1381.9	1415.9	1456.3	1493.3	1527.5	1563.4	1607.4	1651.9
15°	1172.1	1212.3	1254.3	1286.8	1333.0	1375.6	1418.8	1464.9	1508.7	1561.4	1619.3
17.5°	1014.0	1060.6	1131.2	1187.0	1241.2	1283.9	1337.4	1393.2	1444.8	1508.3	1572.9
20°	942.5	976.9	1024.8	1099.9	1181.5	1227.1	1281.6	1343.1	1402.2	1471.4	1540.7
22.5°	885.2	915.8	954.2	1012.8	1103.9	1166.0	1222.8	1285.3	1354.0	1424.6	1501.4
25°	803.4	824.7	865.0	912.3	975.1	1077.4	1139.5	1202.2	1276.8	1352.5	1440.1
27.5°	742.1	761.3	787.4	832.6	879.2	952.7	1051.5	1119.9	1194.2	1279.4	1370.3
30°	695.2	717.6	746.6	778.6	829.5	886.9	985.7	1065.0	1138.4	1225.9	1322.9
32.5°	661.1	678.9	703.6	736.0	778.4	833.4	912.3	1008.6	1080.1	1172.4	1273.7
35°	605.3	626.0	646.1	676.9	711.1	761.4	821.2	924.2	995.1	1086.3	1188.0
37.5°	559.2	571.9	594.1	618.5	654.7	692.2	744.0	836.3	913.2	1002.6	1106.8
40°	524.2	540.2	556.8	584.0	613.6	649.6	700.5	769.2	857.3	944.9	1046.6
42.5°	490.2	510.3	527.9	546.1	578.5	614.7	656.0	714.3	804.3	887.2	986.1
45°	449.1	462.1	480.5	500.5	527.2	557.9	594.6	645.5	731.9	803.4	896.3
47.5°	401.3	420.4	432.3	451.9	477.2	506.6	540.6	584.7	654.6	721.7	807.9
50°	368.6	388.2	405.3	423.0	445.5	473.9	502.3	544.9	601.1	671.5	752.0
52.5°	340.6	357.8	374.5	392.3	414.3	440.3	467.3	504.7	552.9	617.6	695.7
55°	302.4	313.0	330.1	347.9	367.4	392.3	418.3	449.7	491.1	545.5	608.9
57.5°	263.1	275.4	289.0	306.8	326.6	345.6	369.1	397.4	430.2	479.4	533.6
60°	240.8	250.3	261.5	279.8	298.2	315.3	337.9	361.5	392.3	434.9	481.0
62.5°	216.2	225.2	235.5	251.5	269.3	285.1	304.7	329.8	355.8	394.7	435.1
65°	175.1	188.2	198.2	212.4	227.2	243.8	259.1	279.3	302.4	333.1	369.2
67.5°	145.2	151.9	161.1	174.1	189.2	203.4	217.9	233.7	253.7	277.5	306.1
70°	132.0	134.3	136.1	148.5	162.7	176.9	190.5	205.3	222.5	242.0	266.8
72.5°	116.3	118.7	120.9	126.3	137.6	151.9	165.9	176.9	193.1	209.3	229.4
75°	92.3	95.9	97.6	100.6	104.7	114.2	127.2	137.9	147.3	159.7	175.8
77.5°	70.3	72.3	74.2	77.3	79.9	84.3	91.6	101.2	110.0	117.3	128.2
80°	55.6	56.2	58.6	59.7	63.3	66.3	69.8	77.5	86.4	89.3	97.0
82.5°	41.9	42.4	44.4	45.6	47.2	49.7	54.2	56.2	63.2	67.1	72.0
85°	23.1	22.5	24.3	24.3	25.4	26.7	27.8	30.8	32.5	37.3	38.4
87.5°	13.4	13.5	13.0	12.1	11.2	11.3	11.1	11.1	11.6	12.5	13.9
90°	31.2	31.6	27.2	22.7	18.4	13.9	10.5	8.1	5.7	3.3	0.9
92.5°	28.8	28.7	27.6	26.7	25.6	24.5	23.2	21.4	19.6	17.8	16.1
95°	57.8	57.8	57.4	57.0	56.6	56.2	55.0	53.0	51.0	49.0	47.0
97.5°	97.2	97.2	96.4	95.7	94.9	94.2	92.8	91.1	89.3	87.6	85.8
100°	124.7	124.7	124.0	123.4	122.8	122.3	121.1	119.5	117.9	116.3	114.7
102.5°	154.4	154.3	153.5	152.8	151.9	151.2	150.2	148.9	147.6	146.3	145.1
105°	199.1	198.7	198.3	197.9	197.5	197.1	196.6	196.0	195.4	194.7	194.2
107.5°	247.8	247.6	247.6	247.6	247.6	247.6	247.2	246.3	245.4	244.6	243.7
110°	280.9	280.9	280.9	280.9	280.9	280.9	280.3	279.1	277.9	276.7	275.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	314.3	314.9	315.0	315.1	315.3	315.5	315.0	313.8	312.5	311.4	310.1
115°	364.7	364.9	365.2	365.7	366.0	366.5	366.0	364.9	363.6	362.5	361.2
117.5°	413.9	414.4	415.5	416.6	417.8	418.8	418.7	417.1	415.4	413.8	412.2
120°	446.2	446.2	447.8	449.4	451.0	452.6	452.6	451.0	449.4	447.8	446.2
122.5°	480.4	480.8	482.0	483.1	484.2	485.4	484.9	483.0	481.1	479.2	477.2
125°	530.5	531.1	531.6	532.3	532.9	533.5	532.9	531.1	529.2	527.4	525.7
127.5°	579.1	579.9	580.6	581.3	582.0	582.7	581.9	579.7	577.4	575.1	572.8
130°	612.0	612.3	612.8	613.1	613.6	613.9	612.9	610.3	607.6	605.0	602.4
132.5°	644.7	645.6	645.5	645.4	645.3	645.2	644.2	642.0	639.9	637.8	635.6
135°	691.6	691.8	691.4	691.0	690.6	690.2	688.9	686.7	684.5	682.3	680.1
137.5°	737.2	737.4	736.8	736.3	735.8	735.3	734.1	732.3	730.5	728.7	726.8
140°	767.7	767.7	766.7	765.7	764.7	763.7	762.2	760.5	758.7	756.9	755.0
142.5°	795.3	795.1	794.5	793.8	793.1	792.5	791.2	789.3	787.6	785.8	784.0
145°	837.4	837.2	836.1	834.8	833.7	832.4	831.2	829.7	828.3	826.9	825.5
147.5°	874.1	873.7	872.9	872.1	871.3	870.5	869.2	867.5	865.9	864.2	862.6
150°	897.4	896.9	896.1	895.3	894.5	893.7	892.6	891.4	890.2	889.0	887.8
152.5°	920.7	920.0	919.0	918.0	917.1	916.1	915.1	913.8	912.7	911.4	910.3
155°	950.2	949.2	948.6	948.1	947.4	946.8	946.2	945.7	945.0	944.4	943.8
157.5°	977.3	976.0	975.6	975.3	974.9	974.6	974.1	973.7	973.3	972.9	972.5
160°	993.8	992.6	992.4	992.2	992.0	991.8	991.5	991.0	990.7	990.2	989.9
162.5°	1008.4	1007.0	1006.8	1006.7	1006.5	1006.2	1006.1	1006.0	1005.9	1005.8	1005.8
165°	1027.4	1026.0	1026.0	1026.0	1026.0	1026.0	1026.1	1026.3	1026.5	1026.7	1026.9
167.5°	1043.1	1041.7	1041.8	1041.8	1041.9	1041.9	1042.2	1042.8	1043.4	1044.0	1044.6
170°	1051.8	1050.4	1050.6	1050.8	1051.0	1051.2	1051.6	1052.2	1052.8	1053.4	1054.0
172.5°	1058.3	1056.9	1057.1	1057.3	1057.5	1057.7	1058.1	1058.7	1059.3	1059.9	1060.5
175°	1065.3	1063.9	1064.3	1064.7	1065.1	1065.5	1066.0	1066.7	1067.3	1067.8	1068.4
177.5°	1069.1	1068.1	1068.4	1068.7	1069.1	1069.3	1069.8	1070.2	1070.8	1071.2	1071.7
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1712.7	1714.1	1723.6	1727.9	1736.4	1739.7	1743.5	1742.6	1742.6	1744.5	1757.7
5°	1716.4	1728.2	1746.0	1763.2	1779.7	1793.9	1803.4	1812.8	1816.4	1833.5	1849.0
7.5°	1710.2	1732.1	1761.4	1787.5	1818.9	1843.3	1863.8	1882.0	1894.6	1919.6	1945.2
10°	1702.2	1733.0	1766.1	1799.8	1843.0	1875.5	1908.7	1934.1	1942.4	1979.7	2001.0
12.5°	1686.1	1727.2	1769.4	1813.1	1855.3	1900.1	1936.6	1962.0	1991.2	2024.6	2064.0
15°	1662.0	1709.3	1764.3	1820.5	1880.9	1935.3	1974.3	2018.7	2050.7	2087.4	2121.6
17.5°	1627.3	1688.3	1758.2	1823.3	1893.1	1951.5	2005.3	2047.8	2070.3	2091.2	2096.3
20°	1599.8	1665.5	1747.8	1824.7	1894.5	1961.9	2015.2	2050.7	2056.6	2057.2	2025.9
22.5°	1570.0	1644.2	1730.3	1809.0	1892.6	1967.6	2009.0	2024.2	2000.7	1960.6	1900.0
25°	1515.2	1601.1	1701.0	1790.9	1882.0	1953.0	1967.3	1940.6	1858.4	1772.0	1662.6
27.5°	1455.8	1552.3	1659.5	1759.4	1856.5	1900.5	1869.9	1773.9	1625.8	1497.0	1341.0
30°	1412.3	1520.5	1625.9	1737.7	1827.7	1846.6	1776.2	1634.8	1462.0	1267.9	1112.3
32.5°	1362.6	1476.0	1591.8	1707.4	1782.7	1764.2	1647.9	1473.8	1271.2	1080.5	933.4
35°	1291.6	1408.7	1533.6	1649.6	1697.5	1617.6	1443.7	1217.0	1010.0	831.9	730.7
37.5°	1209.6	1337.1	1467.0	1573.4	1570.0	1436.9	1200.0	966.1	792.0	686.7	614.7
40°	1151.4	1280.3	1420.6	1510.5	1472.0	1298.7	1041.9	821.2	694.0	610.0	557.3
42.5°	1095.6	1224.9	1364.2	1435.7	1368.9	1155.7	899.9	727.0	622.1	556.5	513.8
45°	1000.5	1137.2	1266.1	1305.8	1186.2	951.4	727.7	602.4	532.5	483.9	454.4
47.5°	907.6	1042.1	1159.8	1160.5	998.8	771.5	613.9	521.3	461.6	424.1	402.6
50°	850.8	978.6	1077.4	1062.0	878.6	686.3	549.0	469.2	419.5	390.5	368.0
52.5°	786.9	910.9	996.5	952.7	776.9	604.0	490.8	423.7	382.5	357.4	337.2
55°	694.0	804.1	864.4	798.2	633.6	502.3	414.7	362.1	331.4	310.0	292.8
57.5°	602.8	693.6	731.6	654.3	521.9	416.5	350.9	311.3	280.8	265.6	256.6
60°	545.5	623.0	649.6	564.5	453.8	364.4	310.6	273.9	251.5	241.4	232.6
62.5°	489.2	552.5	563.5	485.4	395.6	319.1	272.8	241.7	226.9	217.2	208.8
65°	405.9	451.5	446.1	383.4	313.0	253.2	219.5	200.5	189.3	175.8	161.0
67.5°	334.1	361.9	345.2	298.2	238.9	196.8	174.8	160.4	146.5	133.6	130.2
70°	288.7	304.7	287.0	243.8	195.8	165.1	147.3	130.2	121.9	119.0	113.6
72.5°	245.2	250.7	231.6	194.6	159.3	136.7	119.4	109.8	105.3	102.8	99.4
75°	184.0	179.9	163.3	134.3	110.7	95.2	90.0	86.4	83.5	81.1	79.3
77.5°	129.2	123.1	108.4	89.4	77.0	69.7	66.5	64.6	63.2	62.0	60.2
80°	97.0	92.9	78.1	63.9	58.6	55.0	53.2	50.9	50.9	49.7	47.9
82.5°	71.0	66.3	53.5	46.8	43.9	41.7	40.5	39.1	38.6	38.8	37.5
85°	37.3	30.1	26.7	25.4	23.6	22.5	23.1	21.8	21.8	21.8	21.3
87.5°	12.0	10.2	10.2	10.2	11.3	12.2	12.6	13.5	14.8	14.3	14.7
90°	3.3	5.7	8.1	10.5	13.9	18.4	22.7	27.2	31.6	31.2	30.8
92.5°	17.8	19.6	21.4	23.2	24.5	25.6	26.7	27.6	28.7	28.8	28.9
95°	49.0	51.0	53.0	55.0	56.2	56.6	57.0	57.4	57.8	57.8	57.8
97.5°	87.6	89.3	91.1	92.8	94.2	94.9	95.7	96.4	97.2	97.2	97.2
100°	116.3	117.9	119.5	121.1	122.3	122.8	123.4	124.0	124.7	124.7	124.7
102.5°	146.3	147.6	148.9	150.2	151.2	151.9	152.8	153.5	154.3	154.4	154.6
105°	194.7	195.4	196.0	196.6	197.1	197.5	197.9	198.3	198.7	199.1	199.5
107.5°	244.6	245.4	246.3	247.2	247.6	247.6	247.6	247.6	247.6	247.8	248.0
110°	276.7	277.9	279.1	280.3	280.9	280.9	280.9	280.9	280.9	280.9	280.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	311.4	312.5	313.8	315.0	315.5	315.3	315.1	315.0	314.9	314.3	313.9
115°	362.5	363.6	364.9	366.0	366.5	366.0	365.7	365.2	364.9	364.7	364.4
117.5°	413.8	415.4	417.1	418.7	418.8	417.8	416.6	415.5	414.4	413.9	413.4
120°	447.8	449.4	451.0	452.6	452.6	451.0	449.4	447.8	446.2	446.2	446.2
122.5°	479.2	481.1	483.0	484.9	485.4	484.2	483.1	482.0	480.8	480.4	479.9
125°	527.4	529.2	531.1	532.9	533.5	532.9	532.3	531.6	531.1	530.5	529.9
127.5°	575.1	577.4	579.7	581.9	582.7	582.0	581.3	580.6	579.9	579.1	578.4
130°	605.0	607.6	610.3	612.9	613.9	613.6	613.1	612.8	612.3	612.0	611.5
132.5°	637.8	639.9	642.0	644.2	645.2	645.3	645.4	645.5	645.6	644.7	643.8
135°	682.3	684.5	686.7	688.9	690.2	690.6	691.0	691.4	691.8	691.6	691.4
137.5°	728.7	730.5	732.3	734.1	735.3	735.8	736.3	736.8	737.4	737.2	737.0
140°	756.9	758.7	760.5	762.2	763.7	764.7	765.7	766.7	767.7	767.7	767.7
142.5°	785.8	787.6	789.3	791.2	792.5	793.1	793.8	794.5	795.1	795.3	795.5
145°	826.9	828.3	829.7	831.2	832.4	833.7	834.8	836.1	837.2	837.4	837.7
147.5°	864.2	865.9	867.5	869.2	870.5	871.3	872.1	872.9	873.7	874.1	874.6
150°	889.0	890.2	891.4	892.6	893.7	894.5	895.3	896.1	896.9	897.4	898.0
152.5°	911.4	912.7	913.8	915.1	916.1	917.1	918.0	919.0	920.0	920.7	921.5
155°	944.4	945.0	945.7	946.2	946.8	947.4	948.1	948.6	949.2	950.2	951.3
157.5°	972.9	973.3	973.7	974.1	974.6	974.9	975.3	975.6	976.0	977.3	978.7
160°	990.2	990.7	991.0	991.5	991.8	992.0	992.2	992.4	992.6	993.8	995.0
162.5°	1005.8	1005.9	1006.0	1006.1	1006.2	1006.5	1006.7	1006.8	1007.0	1008.4	1009.8
165°	1026.7	1026.5	1026.3	1026.1	1026.0	1026.0	1026.0	1026.0	1026.0	1027.4	1028.9
167.5°	1044.0	1043.4	1042.8	1042.2	1041.9	1041.9	1041.8	1041.8	1041.7	1043.1	1044.6
170°	1053.4	1052.8	1052.2	1051.6	1051.2	1051.0	1050.8	1050.6	1050.4	1051.8	1053.2
172.5°	1059.9	1059.3	1058.7	1058.1	1057.7	1057.5	1057.3	1057.1	1056.9	1058.3	1059.7
175°	1067.8	1067.3	1066.7	1066.0	1065.5	1065.1	1064.7	1064.3	1063.9	1065.3	1066.8
177.5°	1071.2	1070.8	1070.2	1069.8	1069.3	1069.1	1068.7	1068.4	1068.1	1069.1	1070.1
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1762.5	1768.6	1771.4	1771.4	1774.8	1773.3	1771.9
5°	1863.8	1875.0	1877.3	1888.0	1895.7	1893.3	1894.5
7.5°	1964.4	1982.5	2000.4	2008.6	2009.8	2014.6	2016.3
10°	2026.4	2041.2	2069.0	2064.8	2085.6	2097.4	2077.9
12.5°	2086.1	2106.0	2125.4	2130.7	2142.4	2146.2	2138.5
15°	2140.0	2150.7	2151.9	2148.9	2152.4	2149.5	2138.2
17.5°	2089.6	2072.3	2037.3	2020.7	2007.6	1988.2	1980.4
20°	2006.3	1955.4	1896.2	1872.6	1844.8	1790.4	1803.4
22.5°	1826.5	1768.4	1709.3	1640.2	1607.2	1555.6	1552.5
25°	1546.6	1446.6	1336.6	1259.6	1214.7	1163.2	1140.7
27.5°	1202.5	1076.6	986.4	940.8	899.2	858.4	856.8
30°	976.2	881.5	811.7	772.7	747.3	730.1	733.7
32.5°	822.9	758.0	711.0	678.5	659.7	646.8	646.6
35°	672.7	628.3	598.2	584.5	571.0	561.5	562.0
37.5°	575.7	549.0	532.3	517.2	508.7	504.1	501.5
40°	526.0	504.1	491.1	482.2	475.1	468.6	467.4
42.5°	486.7	468.6	455.6	448.6	441.9	437.4	436.1
45°	431.9	417.1	405.3	397.6	394.7	390.5	390.5
47.5°	384.2	369.7	360.4	355.6	350.5	347.8	347.7
50°	352.0	340.8	332.5	329.6	325.4	323.6	323.1
52.5°	323.2	314.8	308.9	306.8	305.1	302.8	303.2
55°	284.0	279.3	276.9	275.1	272.2	268.6	271.0
57.5°	251.0	246.9	240.6	235.0	232.3	229.8	230.8
60°	227.8	219.5	211.2	204.7	203.0	197.6	197.6
62.5°	198.4	186.8	176.6	173.0	171.2	168.7	168.3
65°	152.7	147.9	145.5	143.2	142.0	142.0	140.8
67.5°	126.5	124.6	122.0	121.5	120.2	119.8	119.5
70°	111.8	109.4	108.3	107.7	106.5	107.1	105.3
72.5°	97.6	95.8	95.5	94.0	93.3	93.4	92.0
75°	77.0	77.0	76.3	75.7	74.5	73.9	74.5
77.5°	59.2	59.3	58.2	58.1	58.0	58.1	57.5
80°	47.3	47.9	47.3	46.7	46.2	46.7	46.2
82.5°	37.4	36.6	36.5	36.3	36.2	35.8	35.8
85°	21.3	21.8	21.3	20.7	20.7	20.7	21.3
87.5°	14.1	14.1	14.0	14.1	14.1	14.2	13.7
90°	30.4	30.0	29.9	30.1	30.3	30.5	30.7
92.5°	29.0	29.1	29.1	29.2	29.2	29.2	29.2
95°	57.8	57.8	57.6	57.2	56.8	56.4	56.0
97.5°	97.2	97.2	97.2	97.1	97.1	97.0	97.0
100°	124.7	124.7	124.6	124.3	124.1	123.9	123.8
102.5°	154.7	154.9	154.9	154.7	154.4	154.3	154.1
105°	199.9	200.3	200.5	200.5	200.5	200.5	200.5
107.5°	248.2	248.3	247.9	247.0	246.0	245.1	244.2
110°	280.9	280.9	280.6	280.0	279.4	278.7	278.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	313.4	312.9	312.5	312.0	311.6	311.1	310.7
115°	364.3	364.1	363.6	363.1	362.5	361.9	361.2
117.5°	413.0	412.4	411.9	411.3	410.7	410.1	409.5
120°	446.2	446.2	445.9	445.2	444.7	444.1	443.4
122.5°	479.4	478.9	478.5	478.0	477.6	477.2	476.7
125°	529.2	528.7	528.2	528.1	527.9	527.6	527.4
127.5°	577.7	576.9	576.2	575.6	575.0	574.4	573.7
130°	611.2	610.7	610.1	609.3	608.5	607.7	606.9
132.5°	642.9	642.0	641.3	640.7	640.0	639.4	638.7
135°	691.3	691.0	690.6	690.0	689.4	688.8	688.2
137.5°	736.9	736.7	736.2	735.4	734.6	733.8	733.0
140°	767.7	767.7	767.3	766.5	765.7	764.9	764.1
142.5°	795.7	795.8	795.5	794.7	793.9	793.1	792.3
145°	837.9	838.0	837.8	837.0	836.2	835.4	834.6
147.5°	875.0	875.5	875.3	874.6	873.8	873.1	872.3
150°	898.7	899.3	899.3	898.7	898.0	897.4	896.9
152.5°	922.3	923.0	923.0	922.3	921.5	920.7	920.0
155°	952.3	953.2	953.4	952.9	952.3	951.6	951.0
157.5°	980.1	981.4	981.6	980.7	979.7	978.7	977.8
160°	996.2	997.4	997.6	996.8	996.0	995.2	994.4
162.5°	1011.1	1012.5	1012.7	1011.7	1010.8	1009.8	1008.9
165°	1030.2	1031.6	1031.8	1030.8	1029.8	1028.9	1027.8
167.5°	1046.0	1047.3	1047.5	1046.5	1045.4	1044.4	1043.4
170°	1054.6	1056.1	1056.1	1054.9	1053.7	1052.5	1051.3
172.5°	1061.1	1062.5	1062.7	1061.4	1060.2	1059.0	1057.8
175°	1068.2	1069.5	1069.7	1068.4	1067.3	1066.0	1064.9
177.5°	1070.9	1071.9	1071.9	1070.9	1070.1	1069.1	1068.1
180°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2

(END OF REPORT)