

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: P331729-930

Luminaire Tested: **SA2XXRDIP-C865D1080U930-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331729-930  
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: SA2XXRDIP-C865D1080U930-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1080 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

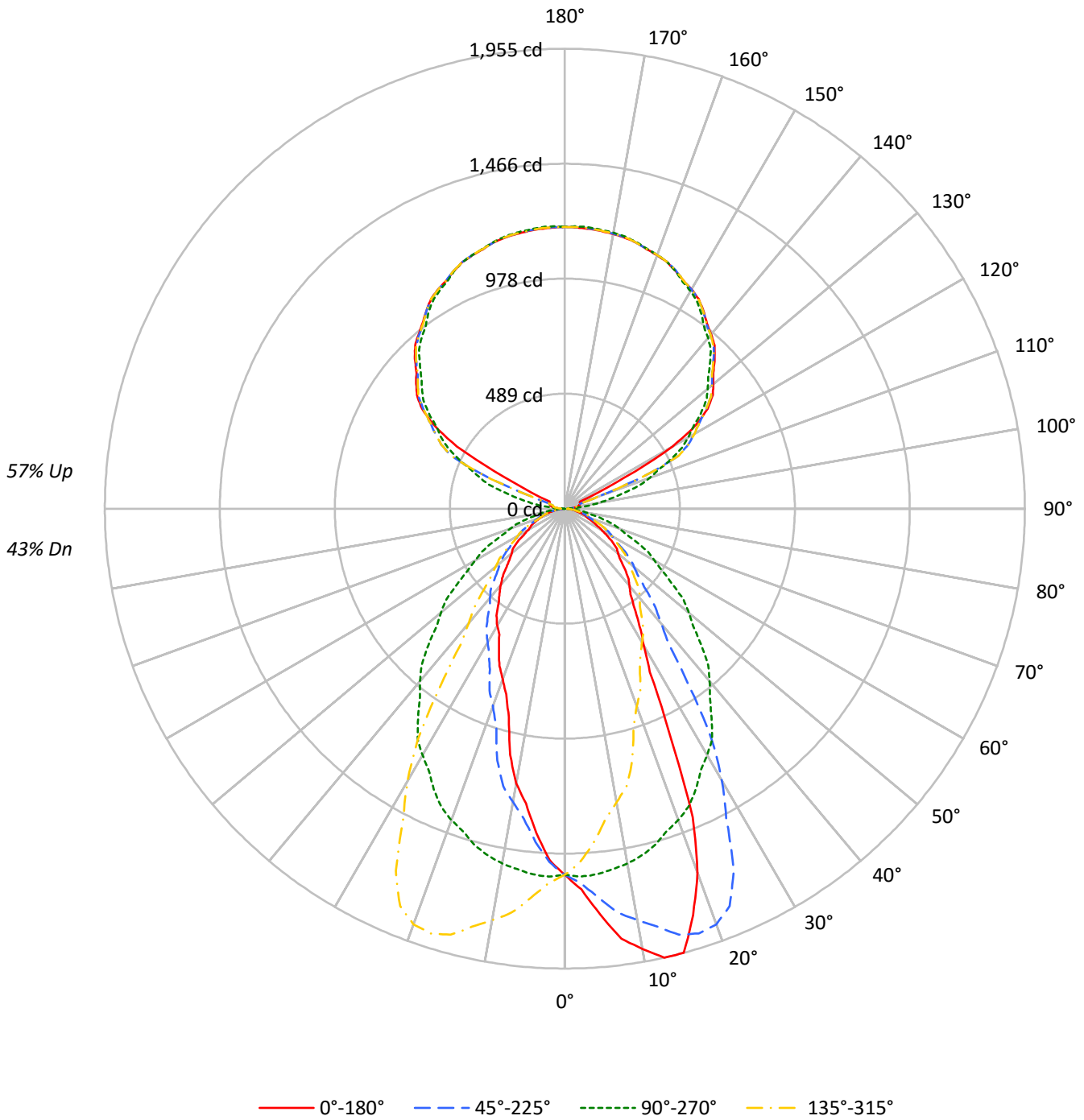
Lumens per Lamp: N/A  
Luminaire Lumens: 6203.7 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 65.4  
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	57	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	32	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	3.3
70°-80°	103.7	1.7
80°-90°	29.9	0.5
90°-100°	40.0	0.6
100°-110°	146.5	2.4
110°-120°	391.7	6.3
120°-130°	646.5	10.4
130°-140°	687.6	11.1
140°-150°	639.1	10.3
150°-160°	513.8	8.3
160°-170°	331.1	5.3
170°-180°	114.0	1.8
0°-30°	1088.7	17.5
0°-40°	1592.3	25.7
0°-60°	2352.3	37.9
0°-90°	2693.6	43.4
90°-120°	578.1	9.3
90°-150°	2551.3	41.1
90°-180°	3510.0	56.6
0°-180°	6203.7	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°	23	1	23	1	23	11
95°	37	56	37	56	37	35
105°	66	264	66	264	66	68
115°	71	498	71	498	71	178
125°	741	705	741	705	741	641
135°	900	872	900	872	900	694
145°	1027	1012	1027	1012	1027	642
155°	1115	1114	1115	1114	1115	514
165°	1171	1174	1171	1174	1171	331
175°	1193	1200	1193	1200	1193	114
180°	1198	1198	1198	1198	1198	



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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°	11.6	12.0	11.9	11.8	11.7	11.6	11.4	11.7	11.0	11.3	10.5
90°	23.4	23.0	22.7	22.3	21.9	21.2	20.2	19.2	18.3	17.4	15.8
92.5°	23.4	23.2	22.9	22.7	22.5	22.1	21.6	21.1	20.6	20.1	19.3
95°	37.3	37.4	37.7	37.8	38.1	37.7	36.7	35.7	34.7	33.8	32.4
97.5°	49.7	49.5	49.3	49.1	48.8	48.3	47.5	46.8	46.0	45.2	42.2
100°	58.0	57.7	57.3	56.9	56.5	55.6	54.1	52.5	51.0	49.4	46.1
102.5°	62.2	61.7	61.1	60.6	60.1	58.8	56.8	54.8	52.8	50.8	78.2
105°	65.9	65.1	64.3	63.6	62.8	61.3	59.2	57.1	55.0	52.8	105.4
107.5°	67.8	67.0	66.2	65.5	64.7	65.4	67.5	69.7	71.8	74.0	137.1
110°	68.5	67.7	66.9	66.1	65.4	74.6	93.9	113.2	132.4	151.6	207.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	69.1	68.6	67.9	67.3	66.7	101.5	171.8	242.1	312.3	382.5	396.3
115°	71.1	85.0	98.8	112.7	126.5	178.1	267.3	356.4	445.6	534.8	529.9
117.5°	290.2	335.7	381.3	426.9	472.5	506.1	527.6	549.2	570.7	592.3	589.0
120°	528.7	554.6	580.7	606.7	632.7	644.6	642.2	639.9	637.6	635.3	631.9
122.5°	659.7	664.8	669.8	674.9	679.9	681.8	680.4	679.0	677.6	676.2	672.5
125°	741.0	740.5	739.9	739.3	738.7	737.8	736.4	735.1	733.7	732.4	728.7
127.5°	792.3	792.2	792.1	792.0	791.9	790.8	788.9	786.9	785.0	783.0	780.2
130°	824.3	824.4	824.6	824.8	825.0	824.0	821.9	819.8	817.7	815.5	813.4
132.5°	855.4	855.7	855.8	856.0	856.2	855.4	853.6	851.7	849.9	848.2	846.0
135°	900.5	900.9	901.2	901.6	902.0	901.2	899.4	897.4	895.5	893.6	891.9
137.5°	941.6	942.2	942.9	943.5	944.2	943.5	941.7	939.8	937.9	936.0	934.1
140°	967.3	968.2	969.1	970.1	971.1	970.7	969.0	967.3	965.5	963.8	961.6
142.5°	992.2	993.2	994.1	995.1	996.1	995.7	994.2	992.5	991.0	989.4	987.0
145°	1027.0	1028.0	1029.0	1030.0	1030.9	1030.7	1029.3	1028.0	1026.6	1025.3	1022.1
147.5°	1057.7	1058.5	1059.3	1060.1	1060.9	1060.9	1059.9	1058.8	1057.9	1056.9	1053.6
150°	1076.4	1077.4	1078.4	1079.3	1080.3	1080.2	1079.0	1077.9	1076.8	1075.5	1072.5
152.5°	1092.4	1093.6	1094.9	1096.2	1097.5	1097.6	1096.4	1095.2	1094.1	1092.9	1090.0
155°	1114.6	1116.1	1117.7	1119.2	1120.7	1121.0	1119.8	1118.6	1117.4	1116.3	1114.0
157.5°	1134.8	1136.4	1137.8	1139.4	1140.8	1140.9	1139.6	1138.3	1137.0	1135.7	1134.1
160°	1146.6	1148.0	1149.3	1150.7	1152.0	1152.1	1151.0	1149.8	1148.7	1147.5	1146.4
162.5°	1156.3	1158.0	1159.7	1161.3	1162.9	1163.2	1161.8	1160.5	1159.2	1157.9	1156.9
165°	1170.9	1172.2	1173.6	1174.9	1176.3	1176.3	1174.9	1173.6	1172.2	1170.9	1170.4
167.5°	1180.1	1181.9	1183.6	1185.3	1187.0	1187.2	1185.9	1184.5	1183.2	1181.9	1181.3
170°	1185.6	1187.4	1189.1	1190.8	1192.5	1192.8	1191.4	1190.1	1188.7	1187.4	1187.0
172.5°	1189.8	1191.6	1193.3	1195.0	1196.8	1196.9	1195.6	1194.3	1192.9	1191.6	1191.2
175°	1193.4	1195.4	1197.3	1199.2	1201.2	1201.4	1200.1	1198.7	1197.4	1196.0	1195.6
177.5°	1195.7	1197.1	1198.5	1199.9	1201.3	1201.4	1200.3	1199.2	1198.2	1197.1	1196.9
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



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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°	10.2	10.4	10.0	9.2	9.2	9.2	11.0	12.7	11.4	10.5	10.1
90°	14.3	12.7	11.2	9.4	7.3	5.1	3.0	0.9	3.0	5.1	7.3
92.5°	18.6	17.8	17.0	16.7	17.0	17.1	17.3	17.5	17.3	17.1	17.0
95°	31.1	29.8	28.4	30.9	37.3	43.6	50.0	56.3	50.0	43.6	37.3
97.5°	39.0	35.9	32.8	40.2	58.0	76.0	93.9	111.8	93.9	76.0	58.0
100°	42.9	39.5	36.3	47.9	74.3	100.6	127.0	153.4	127.0	100.6	74.3
102.5°	105.6	133.0	160.4	176.8	182.4	188.0	193.6	199.2	193.6	188.0	182.4
105°	158.0	210.6	263.2	286.6	280.8	275.0	269.3	263.5	269.3	275.0	280.8
107.5°	200.2	263.2	326.3	355.5	350.7	346.1	341.4	336.8	341.4	346.1	350.7
110°	263.0	318.6	374.3	400.1	396.1	392.1	388.0	383.9	388.0	392.1	396.1





TEST NUMBER: P331729-930

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	410.1	423.8	437.6	442.6	439.0	435.5	431.9	428.4	431.9	435.5	439.0
115°	525.1	520.3	515.5	511.4	508.2	504.9	501.7	498.4	501.7	504.9	508.2
117.5°	585.7	582.4	579.0	575.6	571.9	568.3	564.6	560.9	564.6	568.3	571.9
120°	628.4	624.9	621.4	618.2	615.4	612.5	609.6	606.7	609.6	612.5	615.4
122.5°	668.6	664.9	661.1	657.7	654.7	651.6	648.6	645.6	648.6	651.6	654.7
125°	725.0	721.4	717.7	714.6	712.2	709.6	707.1	704.7	707.1	709.6	712.2
127.5°	777.5	774.8	772.0	769.3	766.5	763.8	761.0	758.2	761.0	763.8	766.5
130°	811.3	809.2	807.1	804.5	801.4	798.3	795.2	792.1	795.2	798.3	801.4
132.5°	843.9	841.8	839.7	837.3	834.7	832.1	829.5	826.8	829.5	832.1	834.7
135°	890.1	888.4	886.6	884.2	881.2	878.1	875.0	871.9	875.0	878.1	881.2
137.5°	932.1	930.2	928.1	926.1	924.0	921.8	919.7	917.5	919.7	921.8	924.0
140°	959.5	957.4	955.3	953.5	951.9	950.4	948.8	947.3	948.8	950.4	951.9
142.5°	984.6	982.1	979.7	977.8	976.4	975.0	973.6	972.2	973.6	975.0	976.4
145°	1018.7	1015.5	1012.2	1010.6	1010.9	1011.1	1011.2	1011.5	1011.2	1011.1	1010.9
147.5°	1050.4	1047.2	1043.9	1042.7	1043.4	1044.2	1044.9	1045.6	1044.9	1044.2	1043.4
150°	1069.4	1066.3	1063.2	1062.4	1063.7	1065.1	1066.4	1067.8	1066.4	1065.1	1063.7
152.5°	1087.0	1084.1	1081.2	1080.5	1082.0	1083.5	1085.0	1086.5	1085.0	1083.5	1082.0
155°	1111.7	1109.4	1107.1	1106.8	1108.5	1110.3	1112.0	1113.7	1112.0	1110.3	1108.5
157.5°	1132.5	1130.9	1129.3	1129.2	1130.7	1132.1	1133.6	1135.1	1133.6	1132.1	1130.7
160°	1145.2	1144.0	1142.9	1142.9	1144.0	1145.2	1146.4	1147.5	1146.4	1145.2	1144.0
162.5°	1155.9	1154.9	1153.9	1154.0	1155.1	1156.3	1157.5	1158.6	1157.5	1156.3	1155.1
165°	1169.8	1169.1	1168.6	1168.9	1170.0	1171.2	1172.3	1173.5	1172.3	1171.2	1170.0
167.5°	1180.7	1180.2	1179.7	1180.0	1181.1	1182.3	1183.5	1184.6	1183.5	1182.3	1181.1
170°	1186.6	1186.3	1185.9	1186.3	1187.4	1188.5	1189.7	1190.8	1189.7	1188.5	1187.4
172.5°	1190.7	1190.4	1190.0	1190.4	1191.6	1192.7	1193.8	1195.0	1193.8	1192.7	1191.6
175°	1195.3	1194.9	1194.5	1195.0	1196.4	1197.7	1199.1	1200.4	1199.1	1197.7	1196.4
177.5°	1196.8	1196.6	1196.5	1196.9	1198.0	1199.1	1200.2	1201.3	1200.2	1199.1	1198.0
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



TEST NUMBER: P331729-930

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**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°	10.1	10.0	9.5	9.8	10.1	9.9	10.2	9.9	10.1	10.3	10.0
90°	9.4	11.2	12.7	14.3	15.8	17.4	18.3	19.2	20.2	21.2	21.9
92.5°	16.7	17.0	17.8	18.6	19.3	20.1	20.6	21.1	21.6	22.1	22.5
95°	30.9	28.4	29.8	31.1	32.4	33.8	34.7	35.7	36.7	37.7	38.1
97.5°	40.2	32.8	35.9	39.0	42.2	45.2	46.0	46.8	47.5	48.3	48.8
100°	47.9	36.3	39.5	42.9	46.1	49.4	51.0	52.5	54.1	55.6	56.5
102.5°	176.8	160.4	133.0	105.6	78.2	50.8	52.8	54.8	56.8	58.8	60.1
105°	286.6	263.2	210.6	158.0	105.4	52.8	55.0	57.1	59.2	61.3	62.8
107.5°	355.5	326.3	263.2	200.2	137.1	74.0	71.8	69.7	67.5	65.4	64.7
110°	400.1	374.3	318.6	263.0	207.3	151.6	132.4	113.2	93.9	74.6	65.4



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	442.6	437.6	423.8	410.1	396.3	382.5	312.3	242.1	171.8	101.5	66.7
115°	511.4	515.5	520.3	525.1	529.9	534.8	445.6	356.4	267.3	178.1	126.5
117.5°	575.6	579.0	582.4	585.7	589.0	592.3	570.7	549.2	527.6	506.1	472.5
120°	618.2	621.4	624.9	628.4	631.9	635.3	637.6	639.9	642.2	644.6	632.7
122.5°	657.7	661.1	664.9	668.6	672.5	676.2	677.6	679.0	680.4	681.8	679.9
125°	714.6	717.7	721.4	725.0	728.7	732.4	733.7	735.1	736.4	737.8	738.7
127.5°	769.3	772.0	774.8	777.5	780.2	783.0	785.0	786.9	788.9	790.8	791.9
130°	804.5	807.1	809.2	811.3	813.4	815.5	817.7	819.8	821.9	824.0	825.0
132.5°	837.3	839.7	841.8	843.9	846.0	848.2	849.9	851.7	853.6	855.4	856.2
135°	884.2	886.6	888.4	890.1	891.9	893.6	895.5	897.4	899.4	901.2	902.0
137.5°	926.1	928.1	930.2	932.1	934.1	936.0	937.9	939.8	941.7	943.5	944.2
140°	953.5	955.3	957.4	959.5	961.6	963.8	965.5	967.3	969.0	970.7	971.1
142.5°	977.8	979.7	982.1	984.6	987.0	989.4	991.0	992.5	994.2	995.7	996.1
145°	1010.6	1012.2	1015.5	1018.7	1022.1	1025.3	1026.6	1028.0	1029.3	1030.7	1030.9
147.5°	1042.7	1043.9	1047.2	1050.4	1053.6	1056.9	1057.9	1058.8	1059.9	1060.9	1060.9
150°	1062.4	1063.2	1066.3	1069.4	1072.5	1075.5	1076.8	1077.9	1079.0	1080.2	1080.3
152.5°	1080.5	1081.2	1084.1	1087.0	1090.0	1092.9	1094.1	1095.2	1096.4	1097.6	1097.5
155°	1106.8	1107.1	1109.4	1111.7	1114.0	1116.3	1117.4	1118.6	1119.8	1121.0	1120.7
157.5°	1129.2	1129.3	1130.9	1132.5	1134.1	1135.7	1137.0	1138.3	1139.6	1140.9	1140.8
160°	1142.9	1142.9	1144.0	1145.2	1146.4	1147.5	1148.7	1149.8	1151.0	1152.1	1152.0
162.5°	1154.0	1153.9	1154.9	1155.9	1156.9	1157.9	1159.2	1160.5	1161.8	1163.2	1162.9
165°	1168.9	1168.6	1169.1	1169.8	1170.4	1170.9	1172.2	1173.6	1174.9	1176.3	1176.3
167.5°	1180.0	1179.7	1180.2	1180.7	1181.3	1181.9	1183.2	1184.5	1185.9	1187.2	1187.0
170°	1186.3	1185.9	1186.3	1186.6	1187.0	1187.4	1188.7	1190.1	1191.4	1192.8	1192.5
172.5°	1190.4	1190.0	1190.4	1190.7	1191.2	1191.6	1192.9	1194.3	1195.6	1196.9	1196.8
175°	1195.0	1194.5	1194.9	1195.3	1195.6	1196.0	1197.4	1198.7	1200.1	1201.4	1201.2
177.5°	1196.9	1196.5	1196.6	1196.8	1196.9	1197.1	1198.2	1199.2	1200.3	1201.4	1201.3
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



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**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°	10.1	9.7	10.2	9.9	10.2	9.7	10.1	10.0	10.3	10.1	9.9
90°	22.3	22.7	23.0	23.4	23.0	22.7	22.3	21.9	21.2	20.2	19.2
92.5°	22.7	22.9	23.2	23.4	23.2	22.9	22.7	22.5	22.1	21.6	21.1
95°	37.8	37.7	37.4	37.3	37.4	37.7	37.8	38.1	37.7	36.7	35.7
97.5°	49.1	49.3	49.5	49.7	49.5	49.3	49.1	48.8	48.3	47.5	46.8
100°	56.9	57.3	57.7	58.0	57.7	57.3	56.9	56.5	55.6	54.1	52.5
102.5°	60.6	61.1	61.7	62.2	61.7	61.1	60.6	60.1	58.8	56.8	54.8
105°	63.6	64.3	65.1	65.9	65.1	64.3	63.6	62.8	61.3	59.2	57.1
107.5°	65.5	66.2	67.0	67.8	67.0	66.2	65.5	64.7	65.4	67.5	69.7
110°	66.1	66.9	67.7	68.5	67.7	66.9	66.1	65.4	74.6	93.9	113.2



TEST NUMBER: P331729-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	67.3	67.9	68.6	69.1	68.6	67.9	67.3	66.7	101.5	171.8	242.1
115°	112.7	98.8	85.0	71.1	85.0	98.8	112.7	126.5	178.1	267.3	356.4
117.5°	426.9	381.3	335.7	290.2	335.7	381.3	426.9	472.5	506.1	527.6	549.2
120°	606.7	580.7	554.6	528.7	554.6	580.7	606.7	632.7	644.6	642.2	639.9
122.5°	674.9	669.8	664.8	659.7	664.8	669.8	674.9	679.9	681.8	680.4	679.0
125°	739.3	739.9	740.5	741.0	740.5	739.9	739.3	738.7	737.8	736.4	735.1
127.5°	792.0	792.1	792.2	792.3	792.2	792.1	792.0	791.9	790.8	788.9	786.9
130°	824.8	824.6	824.4	824.3	824.4	824.6	824.8	825.0	824.0	821.9	819.8
132.5°	856.0	855.8	855.7	855.4	855.7	855.8	856.0	856.2	855.4	853.6	851.7
135°	901.6	901.2	900.9	900.5	900.9	901.2	901.6	902.0	901.2	899.4	897.4
137.5°	943.5	942.9	942.2	941.6	942.2	942.9	943.5	944.2	943.5	941.7	939.8
140°	970.1	969.1	968.2	967.3	968.2	969.1	970.1	971.1	970.7	969.0	967.3
142.5°	995.1	994.1	993.2	992.2	993.2	994.1	995.1	996.1	995.7	994.2	992.5
145°	1030.0	1029.0	1028.0	1027.0	1028.0	1029.0	1030.0	1030.9	1030.7	1029.3	1028.0
147.5°	1060.1	1059.3	1058.5	1057.7	1058.5	1059.3	1060.1	1060.9	1060.9	1059.9	1058.8
150°	1079.3	1078.4	1077.4	1076.4	1077.4	1078.4	1079.3	1080.3	1080.2	1079.0	1077.9
152.5°	1096.2	1094.9	1093.6	1092.4	1093.6	1094.9	1096.2	1097.5	1097.6	1096.4	1095.2
155°	1119.2	1117.7	1116.1	1114.6	1116.1	1117.7	1119.2	1120.7	1121.0	1119.8	1118.6
157.5°	1139.4	1137.8	1136.4	1134.8	1136.4	1137.8	1139.4	1140.8	1140.9	1139.6	1138.3
160°	1150.7	1149.3	1148.0	1146.6	1148.0	1149.3	1150.7	1152.0	1152.1	1151.0	1149.8
162.5°	1161.3	1159.7	1158.0	1156.3	1158.0	1159.7	1161.3	1162.9	1163.2	1161.8	1160.5
165°	1174.9	1173.6	1172.2	1170.9	1172.2	1173.6	1174.9	1176.3	1176.3	1174.9	1173.6
167.5°	1185.3	1183.6	1181.9	1180.1	1181.9	1183.6	1185.3	1187.0	1187.2	1185.9	1184.5
170°	1190.8	1189.1	1187.4	1185.6	1187.4	1189.1	1190.8	1192.5	1192.8	1191.4	1190.1
172.5°	1195.0	1193.3	1191.6	1189.8	1191.6	1193.3	1195.0	1196.8	1196.9	1195.6	1194.3
175°	1199.2	1197.3	1195.4	1193.4	1195.4	1197.3	1199.2	1201.2	1201.4	1200.1	1198.7
177.5°	1199.9	1198.5	1197.1	1195.7	1197.1	1198.5	1199.9	1201.3	1201.4	1200.3	1199.2
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



TEST NUMBER: P331729-930

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**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°	10.2	9.9	10.1	9.8	9.5	10.0	10.1	10.1	10.5	11.4	12.7
90°	18.3	17.4	15.8	14.3	12.7	11.2	9.4	7.3	5.1	3.0	0.9
92.5°	20.6	20.1	19.3	18.6	17.8	17.0	16.7	17.0	17.1	17.3	17.5
95°	34.7	33.8	32.4	31.1	29.8	28.4	30.9	37.3	43.6	50.0	56.3
97.5°	46.0	45.2	42.2	39.0	35.9	32.8	40.2	58.0	76.0	93.9	111.8
100°	51.0	49.4	46.1	42.9	39.5	36.3	47.9	74.3	100.6	127.0	153.4
102.5°	52.8	50.8	78.2	105.6	133.0	160.4	176.8	182.4	188.0	193.6	199.2
105°	55.0	52.8	105.4	158.0	210.6	263.2	286.6	280.8	275.0	269.3	263.5
107.5°	71.8	74.0	137.1	200.2	263.2	326.3	355.5	350.7	346.1	341.4	336.8
110°	132.4	151.6	207.3	263.0	318.6	374.3	400.1	396.1	392.1	388.0	383.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	312.3	382.5	396.3	410.1	423.8	437.6	442.6	439.0	435.5	431.9	428.4
115°	445.6	534.8	529.9	525.1	520.3	515.5	511.4	508.2	504.9	501.7	498.4
117.5°	570.7	592.3	589.0	585.7	582.4	579.0	575.6	571.9	568.3	564.6	560.9
120°	637.6	635.3	631.9	628.4	624.9	621.4	618.2	615.4	612.5	609.6	606.7
122.5°	677.6	676.2	672.5	668.6	664.9	661.1	657.7	654.7	651.6	648.6	645.6
125°	733.7	732.4	728.7	725.0	721.4	717.7	714.6	712.2	709.6	707.1	704.7
127.5°	785.0	783.0	780.2	777.5	774.8	772.0	769.3	766.5	763.8	761.0	758.2
130°	817.7	815.5	813.4	811.3	809.2	807.1	804.5	801.4	798.3	795.2	792.1
132.5°	849.9	848.2	846.0	843.9	841.8	839.7	837.3	834.7	832.1	829.5	826.8
135°	895.5	893.6	891.9	890.1	888.4	886.6	884.2	881.2	878.1	875.0	871.9
137.5°	937.9	936.0	934.1	932.1	930.2	928.1	926.1	924.0	921.8	919.7	917.5
140°	965.5	963.8	961.6	959.5	957.4	955.3	953.5	951.9	950.4	948.8	947.3
142.5°	991.0	989.4	987.0	984.6	982.1	979.7	977.8	976.4	975.0	973.6	972.2
145°	1026.6	1025.3	1022.1	1018.7	1015.5	1012.2	1010.6	1010.9	1011.1	1011.2	1011.5
147.5°	1057.9	1056.9	1053.6	1050.4	1047.2	1043.9	1042.7	1043.4	1044.2	1044.9	1045.6
150°	1076.8	1075.5	1072.5	1069.4	1066.3	1063.2	1062.4	1063.7	1065.1	1066.4	1067.8
152.5°	1094.1	1092.9	1090.0	1087.0	1084.1	1081.2	1080.5	1082.0	1083.5	1085.0	1086.5
155°	1117.4	1116.3	1114.0	1111.7	1109.4	1107.1	1106.8	1108.5	1110.3	1112.0	1113.7
157.5°	1137.0	1135.7	1134.1	1132.5	1130.9	1129.3	1129.2	1130.7	1132.1	1133.6	1135.1
160°	1148.7	1147.5	1146.4	1145.2	1144.0	1142.9	1142.9	1144.0	1145.2	1146.4	1147.5
162.5°	1159.2	1157.9	1156.9	1155.9	1154.9	1153.9	1154.0	1155.1	1156.3	1157.5	1158.6
165°	1172.2	1170.9	1170.4	1169.8	1169.1	1168.6	1168.9	1170.0	1171.2	1172.3	1173.5
167.5°	1183.2	1181.9	1181.3	1180.7	1180.2	1179.7	1180.0	1181.1	1182.3	1183.5	1184.6
170°	1188.7	1187.4	1187.0	1186.6	1186.3	1185.9	1186.3	1187.4	1188.5	1189.7	1190.8
172.5°	1192.9	1191.6	1191.2	1190.7	1190.4	1190.0	1190.4	1191.6	1192.7	1193.8	1195.0
175°	1197.4	1196.0	1195.6	1195.3	1194.9	1194.5	1195.0	1196.4	1197.7	1199.1	1200.4
177.5°	1198.2	1197.1	1196.9	1196.8	1196.6	1196.5	1196.9	1198.0	1199.1	1200.2	1201.3
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



TEST NUMBER: P331729-930  
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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°	11.0	9.2	9.2	9.2	10.0	10.4	10.2	10.5	11.3	11.0	11.7
90°	3.0	5.1	7.3	9.4	11.2	12.7	14.3	15.8	17.4	18.3	19.2
92.5°	17.3	17.1	17.0	16.7	17.0	17.8	18.6	19.3	20.1	20.6	21.1
95°	50.0	43.6	37.3	30.9	28.4	29.8	31.1	32.4	33.8	34.7	35.7
97.5°	93.9	76.0	58.0	40.2	32.8	35.9	39.0	42.2	45.2	46.0	46.8
100°	127.0	100.6	74.3	47.9	36.3	39.5	42.9	46.1	49.4	51.0	52.5
102.5°	193.6	188.0	182.4	176.8	160.4	133.0	105.6	78.2	50.8	52.8	54.8
105°	269.3	275.0	280.8	286.6	263.2	210.6	158.0	105.4	52.8	55.0	57.1
107.5°	341.4	346.1	350.7	355.5	326.3	263.2	200.2	137.1	74.0	71.8	69.7
110°	388.0	392.1	396.1	400.1	374.3	318.6	263.0	207.3	151.6	132.4	113.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	431.9	435.5	439.0	442.6	437.6	423.8	410.1	396.3	382.5	312.3	242.1
115°	501.7	504.9	508.2	511.4	515.5	520.3	525.1	529.9	534.8	445.6	356.4
117.5°	564.6	568.3	571.9	575.6	579.0	582.4	585.7	589.0	592.3	570.7	549.2
120°	609.6	612.5	615.4	618.2	621.4	624.9	628.4	631.9	635.3	637.6	639.9
122.5°	648.6	651.6	654.7	657.7	661.1	664.9	668.6	672.5	676.2	677.6	679.0
125°	707.1	709.6	712.2	714.6	717.7	721.4	725.0	728.7	732.4	733.7	735.1
127.5°	761.0	763.8	766.5	769.3	772.0	774.8	777.5	780.2	783.0	785.0	786.9
130°	795.2	798.3	801.4	804.5	807.1	809.2	811.3	813.4	815.5	817.7	819.8
132.5°	829.5	832.1	834.7	837.3	839.7	841.8	843.9	846.0	848.2	849.9	851.7
135°	875.0	878.1	881.2	884.2	886.6	888.4	890.1	891.9	893.6	895.5	897.4
137.5°	919.7	921.8	924.0	926.1	928.1	930.2	932.1	934.1	936.0	937.9	939.8
140°	948.8	950.4	951.9	953.5	955.3	957.4	959.5	961.6	963.8	965.5	967.3
142.5°	973.6	975.0	976.4	977.8	979.7	982.1	984.6	987.0	989.4	991.0	992.5
145°	1011.2	1011.1	1010.9	1010.6	1012.2	1015.5	1018.7	1022.1	1025.3	1026.6	1028.0
147.5°	1044.9	1044.2	1043.4	1042.7	1043.9	1047.2	1050.4	1053.6	1056.9	1057.9	1058.8
150°	1066.4	1065.1	1063.7	1062.4	1063.2	1066.3	1069.4	1072.5	1075.5	1076.8	1077.9
152.5°	1085.0	1083.5	1082.0	1080.5	1081.2	1084.1	1087.0	1090.0	1092.9	1094.1	1095.2
155°	1112.0	1110.3	1108.5	1106.8	1107.1	1109.4	1111.7	1114.0	1116.3	1117.4	1118.6
157.5°	1133.6	1132.1	1130.7	1129.2	1129.3	1130.9	1132.5	1134.1	1135.7	1137.0	1138.3
160°	1146.4	1145.2	1144.0	1142.9	1142.9	1144.0	1145.2	1146.4	1147.5	1148.7	1149.8
162.5°	1157.5	1156.3	1155.1	1154.0	1153.9	1154.9	1155.9	1156.9	1157.9	1159.2	1160.5
165°	1172.3	1171.2	1170.0	1168.9	1168.6	1169.1	1169.8	1170.4	1170.9	1172.2	1173.6
167.5°	1183.5	1182.3	1181.1	1180.0	1179.7	1180.2	1180.7	1181.3	1181.9	1183.2	1184.5
170°	1189.7	1188.5	1187.4	1186.3	1185.9	1186.3	1186.6	1187.0	1187.4	1188.7	1190.1
172.5°	1193.8	1192.7	1191.6	1190.4	1190.0	1190.4	1190.7	1191.2	1191.6	1192.9	1194.3
175°	1199.1	1197.7	1196.4	1195.0	1194.5	1194.9	1195.3	1195.6	1196.0	1197.4	1198.7
177.5°	1200.2	1199.1	1198.0	1196.9	1196.5	1196.6	1196.8	1196.9	1197.1	1198.2	1199.2
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



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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°	11.4	11.6	11.7	11.8	11.9	12.0	11.6
90°	20.2	21.2	21.9	22.3	22.7	23.0	23.4
92.5°	21.6	22.1	22.5	22.7	22.9	23.2	23.4
95°	36.7	37.7	38.1	37.8	37.7	37.4	37.3
97.5°	47.5	48.3	48.8	49.1	49.3	49.5	49.7
100°	54.1	55.6	56.5	56.9	57.3	57.7	58.0
102.5°	56.8	58.8	60.1	60.6	61.1	61.7	62.2
105°	59.2	61.3	62.8	63.6	64.3	65.1	65.9
107.5°	67.5	65.4	64.7	65.5	66.2	67.0	67.8
110°	93.9	74.6	65.4	66.1	66.9	67.7	68.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	171.8	101.5	66.7	67.3	67.9	68.6	69.1
115°	267.3	178.1	126.5	112.7	98.8	85.0	71.1
117.5°	527.6	506.1	472.5	426.9	381.3	335.7	290.2
120°	642.2	644.6	632.7	606.7	580.7	554.6	528.7
122.5°	680.4	681.8	679.9	674.9	669.8	664.8	659.7
125°	736.4	737.8	738.7	739.3	739.9	740.5	741.0
127.5°	788.9	790.8	791.9	792.0	792.1	792.2	792.3
130°	821.9	824.0	825.0	824.8	824.6	824.4	824.3
132.5°	853.6	855.4	856.2	856.0	855.8	855.7	855.4
135°	899.4	901.2	902.0	901.6	901.2	900.9	900.5
137.5°	941.7	943.5	944.2	943.5	942.9	942.2	941.6
140°	969.0	970.7	971.1	970.1	969.1	968.2	967.3
142.5°	994.2	995.7	996.1	995.1	994.1	993.2	992.2
145°	1029.3	1030.7	1030.9	1030.0	1029.0	1028.0	1027.0
147.5°	1059.9	1060.9	1060.9	1060.1	1059.3	1058.5	1057.7
150°	1079.0	1080.2	1080.3	1079.3	1078.4	1077.4	1076.4
152.5°	1096.4	1097.6	1097.5	1096.2	1094.9	1093.6	1092.4
155°	1119.8	1121.0	1120.7	1119.2	1117.7	1116.1	1114.6
157.5°	1139.6	1140.9	1140.8	1139.4	1137.8	1136.4	1134.8
160°	1151.0	1152.1	1152.0	1150.7	1149.3	1148.0	1146.6
162.5°	1161.8	1163.2	1162.9	1161.3	1159.7	1158.0	1156.3
165°	1174.9	1176.3	1176.3	1174.9	1173.6	1172.2	1170.9
167.5°	1185.9	1187.2	1187.0	1185.3	1183.6	1181.9	1180.1
170°	1191.4	1192.8	1192.5	1190.8	1189.1	1187.4	1185.6
172.5°	1195.6	1196.9	1196.8	1195.0	1193.3	1191.6	1189.8
175°	1200.1	1201.4	1201.2	1199.2	1197.3	1195.4	1193.4
177.5°	1200.3	1201.4	1201.3	1199.9	1198.5	1197.1	1195.7
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8

(END OF REPORT)