

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: P332479-930

Luminaire Tested: **S123RDIW-S1165D1030U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332479-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S1165D1030U930-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

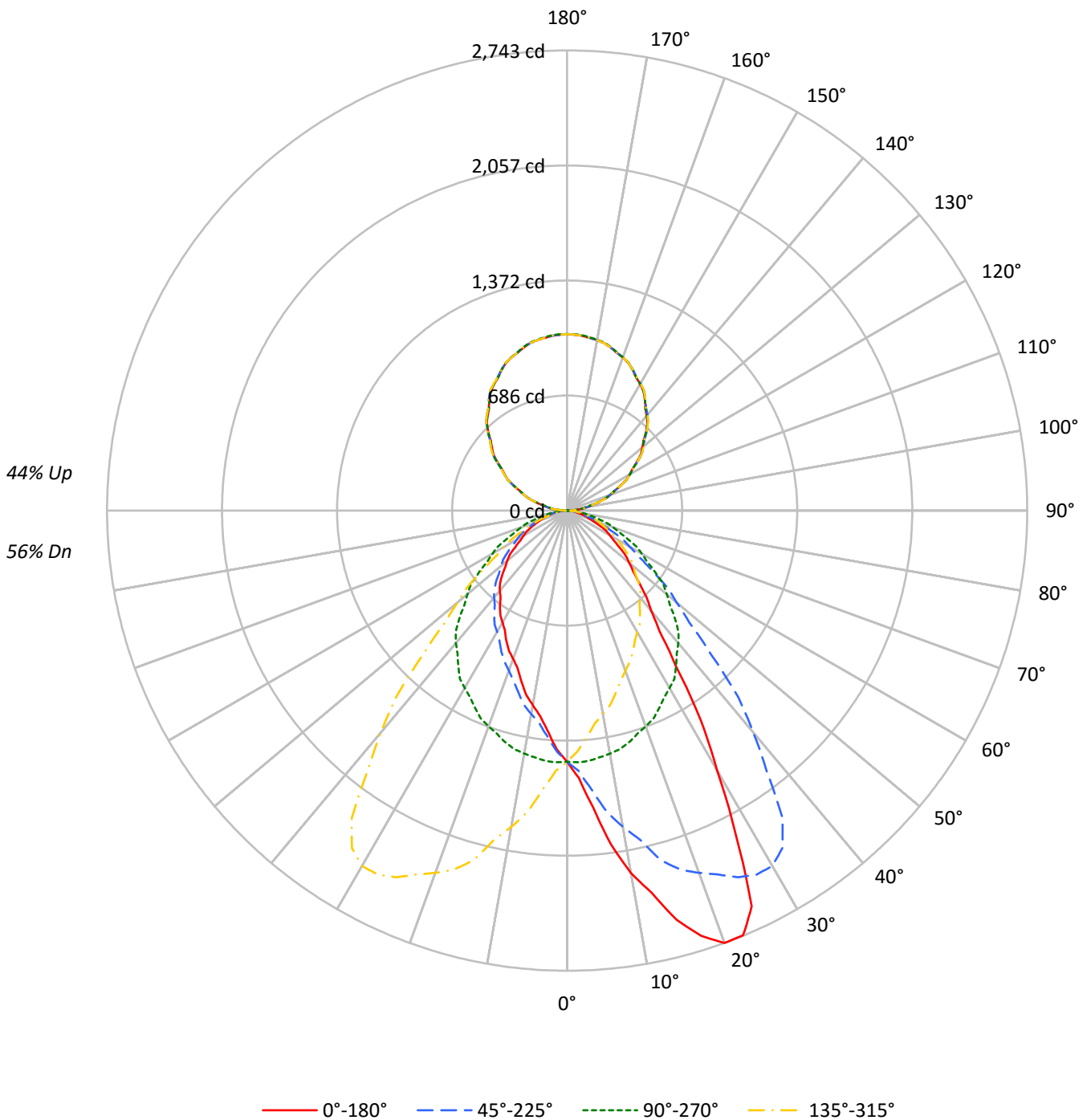
Lumens per Lamp: N/A  
Luminaire Lumens: 6643.4 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	56	54	53	49
2	91	84	78	74	85	79	74	69	68	64	61	59	56	53	50	48	46	42
3	84	75	68	62	78	70	64	59	61	56	52	52	49	46	45	42	40	36
4	77	67	59	53	71	62	56	50	54	49	45	47	43	40	40	37	35	32
5	71	60	52	46	66	56	49	44	49	44	39	43	38	35	37	33	31	28
6	66	54	46	40	61	51	43	38	44	39	35	39	34	31	33	30	27	25
7	61	49	41	36	57	46	39	34	41	35	31	35	31	28	31	27	25	22
8	57	44	37	32	53	42	35	30	37	32	28	33	28	25	28	25	22	20
9	53	41	33	28	49	38	32	27	34	29	25	30	26	22	26	23	20	18
10	49	37	30	26	46	35	29	25	32	26	22	28	23	20	24	21	18	17

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

	0°	90°	180°	270°
0°	16113	16113	16113	16113
5°	19207	16181	14249	16181
10°	23981	16088	12873	16088
15°	28149	15924	11739	15924
20°	31416	15678	10775	15678
25°	30914	15419	10183	15419
30°	22222	15181	9573	15181
35°	14837	14870	9179	14870
40°	10932	14497	8769	14497
45°	9168	13842	8369	13842
50°	8090	12983	7812	12983
55°	7096	12001	7047	12001
60°	6318	11063	6456	11063
65°	5547	10055	6006	10055
70°	4356	9155	5485	9155
75°	3839	7993	5011	7993
80°	3335	6794	4928	6794
85°	2692	5459	5224	5459



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.2	2.2
10°-20°	459.9	6.9
20°-30°	722.5	10.9
30°-40°	753.8	11.3
40°-50°	645.1	9.7
50°-60°	491.7	7.4
60°-70°	315.1	4.7
70°-80°	151.6	2.3
80°-90°	43.2	0.7
90°-100°	68.5	1.0
100°-110°	205.0	3.1
110°-120°	348.7	5.2
120°-130°	458.7	6.9
130°-140°	515.5	7.8
140°-150°	506.8	7.6
150°-160°	426.6	6.4
160°-170°	284.0	4.3
170°-180°	99.4	1.5
0°-30°	1329.6	20.0
0°-40°	2083.4	31.4
0°-60°	3220.2	48.5
0°-90°	3730.2	56.1
90°-120°	622.2	9.4
90°-150°	2103.2	31.7
90°-180°	2913.0	43.8
0°-180°	6643.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1497	1497	1497	1497	1497	
5°	1778	1498	1319	1498	1778	184
15°	2526	1429	1053	1429	2526	716
25°	2603	1298	857	1298	2603	1119
35°	1129	1132	698	1132	1129	740
45°	602	909	550	909	602	474
55°	378	640	376	640	378	342
65°	218	395	236	395	218	214
75°	92	192	120	192	92	99
85°	22	44	42	44	22	26
90°	25	1	25	1	25	13
95°	64	49	64	49	64	66
105°	197	186	197	186	197	209
115°	352	351	352	351	352	348
125°	508	514	508	514	508	454
135°	666	667	666	667	666	512
145°	809	809	809	809	809	505
155°	924	926	924	926	924	426
165°	1005	1008	1005	1008	1005	284
175°	1045	1049	1045	1049	1045	99
180°	1052	1052	1052	1052	1052	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1594.3	1596.4	1589.7	1588.7	1580.9	1578.9	1578.9	1568.1	1561.5	1552.8	1547.7
5°	1777.6	1787.9	1782.7	1771.2	1751.9	1747.4	1735.3	1716.0	1694.3	1667.4	1654.6
7.5°	2006.5	2020.5	2015.1	1997.2	1977.1	1960.9	1926.5	1894.6	1849.8	1810.6	1777.0
10°	2194.1	2179.4	2167.8	2150.5	2131.9	2101.8	2066.0	2016.6	1959.6	1914.7	1864.8
12.5°	2334.5	2332.2	2317.5	2299.7	2273.5	2244.8	2200.7	2140.6	2074.4	2009.5	1952.4
15°	2526.0	2529.9	2520.3	2501.7	2464.5	2413.9	2347.2	2322.3	2227.4	2157.0	2086.4
17.5°	2658.5	2657.8	2656.5	2630.7	2592.8	2556.8	2495.0	2429.3	2343.4	2244.1	2149.1
20°	2742.6	2736.2	2737.5	2708.7	2680.5	2638.8	2578.5	2483.1	2412.6	2297.9	2199.8
22.5°	2740.5	2739.3	2744.1	2734.3	2713.8	2681.8	2634.5	2553.8	2463.9	2348.1	2237.8
25°	2602.9	2597.8	2628.0	2636.3	2669.0	2674.7	2660.6	2616.4	2531.2	2412.0	2275.5
27.5°	2178.5	2175.6	2231.6	2301.5	2390.2	2459.1	2525.8	2557.9	2531.2	2445.8	2309.1
30°	1787.9	1848.0	1876.2	1977.5	2090.3	2224.9	2342.8	2454.9	2482.4	2445.3	2333.1
32.5°	1484.3	1536.9	1560.5	1647.4	1752.5	1910.1	2086.9	2245.7	2357.9	2386.3	2318.8
35°	1129.1	1129.8	1183.6	1222.0	1319.4	1481.6	1653.3	1866.0	2077.5	2237.7	2254.3
37.5°	901.0	904.2	936.7	975.0	1048.1	1133.8	1285.1	1461.9	1706.2	1952.2	2096.3
40°	778.0	783.7	808.0	845.9	898.4	963.1	1081.0	1247.7	1451.4	1725.0	1948.6
42.5°	699.0	708.3	720.9	750.0	782.5	843.2	938.5	1067.2	1252.5	1511.2	1769.3
45°	602.3	607.5	617.1	630.6	660.0	702.3	766.4	852.9	1006.7	1215.0	1473.2
47.5°	531.3	528.6	538.7	549.7	569.3	598.1	641.1	711.7	821.4	988.5	1207.5
50°	483.1	482.5	489.6	497.9	516.5	537.6	572.9	626.1	713.2	851.7	1052.2
52.5°	438.1	440.5	445.5	455.8	469.3	486.4	518.0	556.4	631.2	750.6	917.9
55°	378.1	380.0	387.0	392.8	402.4	419.7	439.6	471.7	522.9	606.2	744.0
57.5°	327.3	326.4	333.2	334.6	345.5	359.6	375.0	399.8	437.0	499.0	591.7
60°	293.5	291.6	297.3	301.8	307.6	319.1	331.9	356.3	385.8	431.3	510.7
62.5°	262.7	261.8	266.0	270.5	275.3	285.8	296.5	315.3	338.6	376.9	439.9
65°	217.8	219.8	221.7	223.6	226.2	232.6	242.9	255.7	271.7	298.6	344.1
67.5°	171.2	173.2	173.8	177.7	183.3	187.3	193.6	205.0	216.1	238.8	264.6
70°	138.4	137.8	138.4	140.3	147.4	154.4	162.7	171.1	178.1	194.1	216.0
72.5°	119.0	117.8	119.4	119.8	123.3	125.2	130.4	138.3	147.4	158.2	173.9
75°	92.3	92.3	92.3	92.3	94.8	96.1	98.1	100.0	103.1	108.3	119.8
77.5°	68.2	68.3	69.2	69.9	70.4	71.1	72.3	74.2	75.3	78.0	83.1
80°	53.8	54.5	53.8	54.5	54.5	55.8	56.4	58.3	58.9	62.1	64.1
82.5°	40.5	40.1	40.5	41.2	41.2	42.4	42.6	43.9	44.1	45.7	47.7
85°	21.8	20.5	21.8	21.1	22.4	21.1	21.8	23.1	23.1	23.7	26.3
87.5°	10.1	11.0	9.9	10.4	10.3	10.7	10.5	10.4	11.3	10.6	10.7
90°	24.8	24.4	24.1	23.6	23.3	22.7	22.0	21.3	20.5	19.8	17.4
92.5°	33.3	33.6	33.8	34.0	34.2	34.1	33.5	32.9	32.3	31.7	30.3
95°	64.4	64.4	64.4	64.4	64.4	64.1	63.3	62.6	61.9	61.1	59.7
97.5°	99.1	99.2	99.3	99.3	99.4	99.1	98.2	97.3	96.5	95.6	94.6
100°	125.6	125.1	124.8	124.4	124.1	123.6	123.1	122.5	122.0	121.4	120.5
102.5°	152.6	152.7	152.8	152.9	153.0	152.7	152.1	151.6	151.1	150.5	149.3
105°	196.6	196.2	195.8	195.5	195.1	194.9	194.9	194.9	194.9	194.9	193.3
107.5°	242.3	242.6	242.8	243.0	243.2	243.0	242.5	241.9	241.2	240.7	240.0
110°	273.4	273.8	274.1	274.5	274.8	274.7	273.9	273.2	272.5	271.7	271.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	306.5	306.6	306.6	306.6	306.7	306.3	305.4	304.6	303.7	302.8	302.7
115°	351.9	352.0	352.2	352.5	352.6	352.6	352.5	352.2	352.0	351.9	352.2
117.5°	397.9	398.4	399.0	399.5	400.0	400.3	400.3	400.4	400.4	400.5	400.9
120°	430.3	430.7	431.0	431.5	431.8	432.1	432.3	432.4	432.6	432.8	433.7
122.5°	461.4	461.9	462.4	462.9	463.4	464.0	464.4	464.9	465.4	465.9	466.4
125°	508.0	508.7	509.5	510.2	510.9	511.7	512.4	513.1	513.9	514.6	514.9
127.5°	554.4	555.2	556.1	556.9	557.7	558.7	559.8	560.8	561.8	562.8	563.2
130°	584.8	586.1	587.3	588.6	590.0	590.9	591.7	592.4	593.1	593.9	594.4
132.5°	616.5	617.5	618.5	619.5	620.5	621.4	622.3	623.2	624.0	624.9	625.3
135°	665.8	666.1	666.5	666.8	667.2	667.7	668.5	669.2	669.9	670.7	670.9
137.5°	709.2	709.9	710.6	711.3	712.0	712.7	713.5	714.3	715.0	715.8	715.3
140°	737.6	738.9	740.2	741.4	742.7	743.5	743.6	743.9	744.0	744.2	744.0
142.5°	766.7	767.7	768.7	769.6	770.6	771.3	771.4	771.6	771.8	772.0	771.7
145°	808.6	809.3	810.1	810.8	811.5	812.0	812.2	812.4	812.6	812.8	812.2
147.5°	846.0	847.1	848.2	849.3	850.4	850.9	850.9	850.9	850.9	850.9	850.4
150°	869.8	870.9	872.0	873.1	874.2	874.7	874.7	874.7	874.7	874.7	874.3
152.5°	892.9	893.8	894.8	895.8	896.7	897.1	896.7	896.4	896.2	895.9	895.7
155°	924.3	925.6	926.8	928.1	929.4	929.7	929.0	928.2	927.5	926.8	926.6
157.5°	952.8	953.9	955.0	955.9	957.0	957.1	956.3	955.5	954.8	954.0	953.9
160°	971.3	972.1	972.8	973.5	974.3	974.2	973.3	972.4	971.4	970.5	970.5
162.5°	985.2	986.4	987.6	988.8	989.9	990.1	989.1	988.2	987.3	986.4	986.3
165°	1005.3	1006.5	1007.8	1009.1	1010.4	1010.5	1009.3	1008.3	1007.1	1006.1	1006.1
167.5°	1022.2	1023.4	1024.5	1025.6	1026.8	1026.8	1025.6	1024.5	1023.4	1022.2	1022.1
170°	1030.9	1032.1	1033.4	1034.7	1036.0	1036.0	1034.7	1033.4	1032.1	1030.9	1030.9
172.5°	1037.5	1038.7	1040.0	1041.3	1042.6	1042.7	1041.5	1040.4	1039.3	1038.1	1038.1
175°	1044.9	1046.2	1047.4	1048.7	1050.0	1050.1	1049.0	1047.9	1046.8	1045.7	1045.7
177.5°	1048.9	1049.9	1050.9	1051.9	1053.0	1053.0	1052.1	1051.2	1050.4	1049.5	1049.5
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1545.6	1544.1	1536.9	1528.7	1517.9	1510.7	1505.1	1502.0	1492.8	1481.6	1473.8
5°	1641.1	1621.9	1601.3	1576.4	1553.3	1529.6	1514.8	1497.5	1476.4	1452.7	1436.1
7.5°	1743.4	1705.7	1665.1	1623.2	1581.8	1544.6	1511.8	1483.7	1450.0	1416.0	1392.2
10°	1821.8	1766.7	1709.7	1651.3	1598.1	1548.2	1509.7	1471.9	1431.6	1392.4	1363.0
12.5°	1893.0	1820.5	1754.8	1683.1	1615.1	1555.3	1500.0	1455.5	1407.0	1365.3	1331.7
15°	1983.3	1908.9	1829.5	1720.5	1630.2	1554.6	1487.3	1429.0	1370.0	1318.7	1286.1
17.5°	2067.6	1955.7	1848.9	1758.1	1640.7	1546.2	1464.1	1394.4	1329.7	1275.3	1235.1
20°	2102.5	1994.1	1878.2	1762.2	1646.8	1541.2	1445.6	1368.7	1301.5	1239.9	1202.8
22.5°	2123.4	2000.8	1878.7	1754.0	1631.5	1521.7	1427.2	1342.6	1269.7	1211.2	1165.4
25°	2148.0	2001.9	1867.3	1744.3	1619.3	1500.2	1388.0	1298.3	1219.4	1157.3	1108.6
27.5°	2164.1	1992.3	1833.2	1696.5	1569.7	1451.0	1348.3	1253.1	1173.2	1107.4	1055.2
30°	2167.1	1984.5	1807.0	1659.1	1530.2	1421.3	1312.4	1221.4	1136.8	1066.9	1018.2
32.5°	2171.3	1965.6	1771.6	1614.5	1482.5	1374.7	1275.9	1189.0	1102.4	1033.6	983.9
35°	2154.3	1955.1	1718.0	1537.2	1405.2	1300.8	1211.8	1131.6	1046.4	979.7	929.2
37.5°	2081.5	1913.4	1662.4	1450.4	1312.4	1215.6	1143.0	1073.2	995.1	923.2	875.5
40°	2008.2	1872.4	1619.3	1397.6	1253.4	1154.1	1088.8	1031.7	956.1	888.8	837.6
42.5°	1899.1	1816.6	1578.3	1342.2	1186.7	1091.0	1035.9	982.4	916.1	847.7	799.6
45°	1698.8	1709.7	1494.4	1254.0	1094.5	998.3	946.5	909.3	850.4	793.9	744.6
47.5°	1447.6	1549.5	1395.8	1160.1	997.2	907.0	861.6	829.2	789.5	734.1	689.1
50°	1283.5	1429.0	1316.9	1097.1	936.2	846.5	801.6	775.3	740.8	697.2	654.3
52.5°	1132.3	1288.5	1221.5	1026.8	870.1	788.1	744.2	722.6	695.1	654.1	615.3
55°	923.4	1081.7	1066.3	920.8	770.9	697.2	663.9	639.5	620.9	590.2	559.5
57.5°	746.9	897.0	904.9	802.9	683.5	610.7	582.0	563.6	551.5	528.3	499.9
60°	635.7	773.5	800.4	723.5	620.9	556.8	528.6	513.9	504.3	485.8	463.9
62.5°	543.4	660.6	691.1	635.8	560.9	501.0	478.9	464.7	458.2	442.1	422.9
65°	415.9	513.3	542.7	512.0	472.9	424.9	406.9	394.8	389.0	380.0	365.9
67.5°	312.7	383.7	416.0	394.4	380.3	349.8	338.4	331.9	326.8	320.7	308.8
70°	251.2	303.7	337.0	331.3	319.8	303.7	295.4	290.9	285.8	280.7	270.4
72.5°	201.9	238.1	269.4	272.3	262.9	259.7	252.3	250.5	247.4	241.2	235.5
75°	134.0	158.9	180.7	189.1	192.9	196.1	192.9	192.2	191.6	186.5	183.3
77.5°	87.8	101.3	115.0	129.2	135.2	139.6	140.6	142.9	141.2	138.5	137.0
80°	67.3	70.5	80.1	92.3	101.9	105.7	108.3	109.6	108.9	108.3	105.7
82.5°	48.8	51.5	56.0	64.6	72.6	79.1	80.6	80.4	81.8	82.2	80.1
85°	26.3	26.9	28.2	29.5	34.0	41.0	43.0	44.2	45.5	45.5	41.7
87.5°	11.3	10.2	10.8	10.4	11.5	11.7	14.3	16.6	17.4	15.7	16.1
90°	15.1	12.6	10.3	8.2	6.4	4.5	2.7	0.8	2.7	4.5	6.4
92.5°	29.0	27.6	26.3	24.9	23.7	22.5	21.2	20.0	21.2	22.5	23.7
95°	58.2	56.7	55.3	53.9	52.6	51.3	50.0	48.8	50.0	51.3	52.6
97.5°	93.5	92.5	91.4	90.4	89.4	88.5	87.5	86.6	87.5	88.5	89.4
100°	119.6	118.7	117.7	116.8	115.6	114.5	113.4	112.3	113.4	114.5	115.6
102.5°	148.1	146.8	145.6	144.7	144.1	143.4	142.8	142.1	142.8	143.4	144.1
105°	191.6	190.0	188.3	187.4	186.9	186.6	186.2	185.9	186.2	186.6	186.9
107.5°	239.4	238.7	238.1	237.6	237.4	237.2	236.9	236.8	236.9	237.2	237.4
110°	271.0	270.7	270.3	269.9	269.5	269.2	268.8	268.5	268.8	269.2	269.5





TEST NUMBER: P332479-930

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	302.6	302.6	302.5	302.4	302.1	301.9	301.7	301.5	301.7	301.9	302.1
115°	352.6	352.9	353.4	353.3	352.7	352.1	351.6	351.1	351.6	352.1	352.7
117.5°	401.4	401.9	402.4	402.4	402.0	401.7	401.3	401.0	401.3	401.7	402.0
120°	434.6	435.5	436.5	436.4	435.3	434.2	433.1	432.0	433.1	434.2	435.3
122.5°	466.8	467.3	467.7	467.6	466.8	466.0	465.2	464.4	465.2	466.0	466.8
125°	515.4	515.7	516.1	516.0	515.4	514.9	514.3	513.8	514.3	514.9	515.4
127.5°	563.6	564.0	564.4	564.0	562.9	561.7	560.5	559.4	560.5	561.7	562.9
130°	595.0	595.6	596.1	595.7	594.2	592.7	591.3	589.8	591.3	592.7	594.2
132.5°	625.7	626.1	626.6	626.1	624.6	623.1	621.6	620.1	621.6	623.1	624.6
135°	671.1	671.2	671.4	671.0	669.8	668.8	667.6	666.6	667.6	668.8	669.8
137.5°	714.9	714.4	713.9	713.2	712.2	711.3	710.5	709.6	710.5	711.3	712.2
140°	743.9	743.6	743.5	742.9	742.0	741.1	740.2	739.2	740.2	741.1	742.0
142.5°	771.3	770.9	770.6	770.1	769.1	768.2	767.3	766.4	767.3	768.2	769.1
145°	811.7	811.1	810.6	810.1	809.8	809.3	809.0	808.6	809.0	809.3	809.8
147.5°	849.9	849.4	848.9	848.3	847.7	846.9	846.3	845.6	846.3	846.9	847.7
150°	874.0	873.6	873.3	872.9	872.5	872.1	871.8	871.4	871.8	872.1	872.5
152.5°	895.4	895.2	895.0	894.6	894.1	893.6	893.1	892.6	893.1	893.6	894.1
155°	926.4	926.2	926.0	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9
157.5°	953.7	953.6	953.4	953.5	953.7	953.9	954.1	954.4	954.1	953.9	953.7
160°	970.5	970.5	970.5	970.7	971.1	971.4	971.8	972.2	971.8	971.4	971.1
162.5°	986.1	985.9	985.8	986.0	986.5	987.0	987.6	988.1	987.6	987.0	986.5
165°	1006.1	1006.1	1006.1	1006.3	1006.9	1007.5	1008.0	1008.5	1008.0	1007.5	1006.9
167.5°	1022.0	1021.8	1021.7	1022.0	1022.7	1023.4	1024.2	1024.9	1024.2	1023.4	1022.7
170°	1030.9	1030.9	1030.9	1031.2	1031.9	1032.7	1033.4	1034.1	1033.4	1032.7	1031.9
172.5°	1038.1	1038.1	1038.1	1038.4	1039.2	1039.9	1040.6	1041.4	1040.6	1039.9	1039.2
175°	1045.7	1045.7	1045.7	1046.1	1046.8	1047.6	1048.3	1049.0	1048.3	1047.6	1046.8
177.5°	1049.5	1049.5	1049.5	1049.8	1050.4	1051.0	1051.6	1052.1	1051.6	1051.0	1050.4
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332479-930

CATALOG NUMBER: S123RDIW-S1165D1030U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1471.3	1464.6	1460.0	1449.8	1443.1	1435.9	1428.7	1433.4	1432.8	1432.3	1432.3
5°	1422.0	1407.2	1393.8	1376.5	1365.5	1352.1	1341.8	1340.5	1343.1	1334.2	1329.0
7.5°	1373.0	1352.8	1333.7	1314.7	1294.5	1278.3	1268.1	1263.4	1256.9	1251.3	1245.6
10°	1338.6	1314.9	1296.3	1272.6	1250.8	1231.6	1219.4	1211.1	1206.6	1202.2	1193.8
12.5°	1303.3	1280.1	1256.4	1229.6	1208.8	1186.5	1177.4	1168.1	1159.4	1154.5	1143.0
15°	1251.5	1221.4	1196.4	1168.2	1145.1	1123.3	1110.5	1091.9	1089.3	1083.0	1071.4
17.5°	1199.5	1166.9	1132.5	1111.5	1085.5	1062.8	1043.3	1037.1	1018.7	1011.8	1001.8
20°	1158.5	1128.5	1102.2	1074.6	1036.8	1015.7	1000.3	992.0	977.2	968.2	961.8
22.5°	1123.2	1092.6	1062.2	1030.0	998.9	975.2	963.9	951.0	942.9	930.3	923.4
25°	1072.7	1039.3	1002.8	968.2	945.8	927.9	910.0	898.4	886.9	881.1	868.3
27.5°	1014.0	979.2	945.0	918.8	891.2	873.5	857.3	847.0	833.2	823.5	816.4
30°	981.7	940.7	911.2	887.5	852.2	835.6	823.5	810.7	800.4	790.1	783.1
32.5°	944.3	906.9	878.9	849.5	822.6	804.3	788.6	777.3	768.6	758.8	751.8
35°	885.6	854.2	825.3	795.9	776.0	757.4	738.8	729.2	720.9	711.9	705.6
37.5°	832.5	803.2	775.8	747.8	723.2	708.1	693.1	685.7	674.5	668.5	661.9
40°	799.7	770.9	741.4	714.5	688.8	677.4	663.9	653.0	642.7	638.2	631.2
42.5°	763.9	735.0	710.1	681.2	660.1	644.5	632.1	620.2	612.5	605.9	601.9
45°	710.6	685.0	660.6	631.9	612.0	598.5	584.4	573.5	566.5	562.0	554.9
47.5°	659.0	633.4	608.6	583.5	564.3	548.9	534.8	527.3	517.9	512.4	507.6
50°	621.6	598.5	572.3	549.2	529.9	514.5	503.0	493.4	485.1	478.0	474.8
52.5°	587.3	562.6	540.0	518.4	498.1	480.7	470.2	460.1	453.8	445.7	442.1
55°	530.6	506.9	487.6	466.5	446.6	431.9	419.1	410.1	403.7	394.8	389.6
57.5°	477.4	456.2	433.2	414.8	394.4	381.9	371.3	359.1	351.3	344.2	339.2
60°	441.5	417.2	397.3	380.0	362.1	346.0	336.4	326.8	318.5	311.4	307.0
62.5°	404.1	382.8	363.9	345.1	328.7	314.8	303.6	295.5	288.2	283.7	279.2
65°	346.7	330.0	310.8	295.4	280.1	269.8	260.8	253.7	248.7	245.4	241.6
67.5°	293.8	277.7	260.9	245.8	235.5	227.7	221.8	215.8	213.3	209.1	206.6
70°	259.5	242.9	228.1	216.6	206.4	200.6	196.7	192.2	189.6	184.6	182.0
72.5°	222.1	210.0	199.4	190.0	181.7	176.5	171.6	166.1	162.0	156.4	153.8
75°	175.0	164.0	155.7	149.3	144.1	137.1	130.1	124.3	122.4	120.5	119.8
77.5°	129.6	122.6	116.6	111.2	104.8	99.7	98.2	96.9	96.5	95.5	95.5
80°	101.9	95.5	91.0	84.5	80.7	80.7	80.7	79.5	80.1	80.1	80.1
82.5°	75.7	69.9	67.4	65.1	64.3	64.8	64.8	65.1	64.7	65.7	65.2
85°	39.1	39.7	41.0	40.4	41.0	41.0	42.3	41.7	42.3	41.0	42.3
87.5°	16.0	17.9	18.9	19.9	21.0	20.9	21.5	21.7	22.3	22.5	22.6
90°	8.2	10.3	12.6	15.1	17.4	19.8	20.5	21.3	22.0	22.7	23.3
92.5°	24.9	26.3	27.6	29.0	30.3	31.7	32.3	32.9	33.5	34.1	34.2
95°	53.9	55.3	56.7	58.2	59.7	61.1	61.9	62.6	63.3	64.1	64.4
97.5°	90.4	91.4	92.5	93.5	94.6	95.6	96.5	97.3	98.2	99.1	99.4
100°	116.8	117.7	118.7	119.6	120.5	121.4	122.0	122.5	123.1	123.6	124.1
102.5°	144.7	145.6	146.8	148.1	149.3	150.5	151.1	151.6	152.1	152.7	153.0
105°	187.4	188.3	190.0	191.6	193.3	194.9	194.9	194.9	194.9	194.9	195.1
107.5°	237.6	238.1	238.7	239.4	240.0	240.7	241.2	241.9	242.5	243.0	243.2
110°	269.9	270.3	270.7	271.0	271.4	271.7	272.5	273.2	273.9	274.7	274.8



TEST NUMBER: P332479-930

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	302.4	302.5	302.6	302.6	302.7	302.8	303.7	304.6	305.4	306.3	306.7
115°	353.3	353.4	352.9	352.6	352.2	351.9	352.0	352.2	352.5	352.6	352.6
117.5°	402.4	402.4	401.9	401.4	400.9	400.5	400.4	400.4	400.3	400.3	400.0
120°	436.4	436.5	435.5	434.6	433.7	432.8	432.6	432.4	432.3	432.1	431.8
122.5°	467.6	467.7	467.3	466.8	466.4	465.9	465.4	464.9	464.4	464.0	463.4
125°	516.0	516.1	515.7	515.4	514.9	514.6	513.9	513.1	512.4	511.7	510.9
127.5°	564.0	564.4	564.0	563.6	563.2	562.8	561.8	560.8	559.8	558.7	557.7
130°	595.7	596.1	595.6	595.0	594.4	593.9	593.1	592.4	591.7	590.9	590.0
132.5°	626.1	626.6	626.1	625.7	625.3	624.9	624.0	623.2	622.3	621.4	620.5
135°	671.0	671.4	671.2	671.1	670.9	670.7	669.9	669.2	668.5	667.7	667.2
137.5°	713.2	713.9	714.4	714.9	715.3	715.8	715.0	714.3	713.5	712.7	712.0
140°	742.9	743.5	743.6	743.9	744.0	744.2	744.0	743.9	743.6	743.5	742.7
142.5°	770.1	770.6	770.9	771.3	771.7	772.0	771.8	771.6	771.4	771.3	770.6
145°	810.1	810.6	811.1	811.7	812.2	812.8	812.6	812.4	812.2	812.0	811.5
147.5°	848.3	848.9	849.4	849.9	850.4	850.9	850.9	850.9	850.9	850.9	850.4
150°	872.9	873.3	873.6	874.0	874.3	874.7	874.7	874.7	874.7	874.7	874.2
152.5°	894.6	895.0	895.2	895.4	895.7	895.9	896.2	896.4	896.7	897.1	896.7
155°	925.9	926.0	926.2	926.4	926.6	926.8	927.5	928.2	929.0	929.7	929.4
157.5°	953.5	953.4	953.6	953.7	953.9	954.0	954.8	955.5	956.3	957.1	957.0
160°	970.7	970.5	970.5	970.5	970.5	970.5	971.4	972.4	973.3	974.2	974.3
162.5°	986.0	985.8	985.9	986.1	986.3	986.4	987.3	988.2	989.1	990.1	989.9
165°	1006.3	1006.1	1006.1	1006.1	1006.1	1006.1	1007.1	1008.3	1009.3	1010.5	1010.4
167.5°	1022.0	1021.7	1021.8	1022.0	1022.1	1022.2	1023.4	1024.5	1025.6	1026.8	1026.8
170°	1031.2	1030.9	1030.9	1030.9	1030.9	1030.9	1032.1	1033.4	1034.7	1036.0	1036.0
172.5°	1038.4	1038.1	1038.1	1038.1	1038.1	1038.1	1039.3	1040.4	1041.5	1042.7	1042.6
175°	1046.1	1045.7	1045.7	1045.7	1045.7	1045.7	1046.8	1047.9	1049.0	1050.1	1050.0
177.5°	1049.8	1049.5	1049.5	1049.5	1049.5	1049.5	1050.4	1051.2	1052.1	1053.0	1053.0
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332479-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1426.2	1425.6	1426.2	1424.1	1426.2	1425.6	1426.2	1432.3	1432.3	1432.8	1433.4
5°	1327.1	1326.5	1324.5	1318.7	1324.5	1326.5	1327.1	1329.0	1334.2	1343.1	1340.5
7.5°	1240.6	1239.7	1234.0	1234.2	1234.0	1239.7	1240.6	1245.6	1251.3	1256.9	1263.4
10°	1189.4	1189.9	1182.3	1177.8	1182.3	1189.9	1189.4	1193.8	1202.2	1206.6	1211.1
12.5°	1139.6	1136.7	1130.5	1125.5	1130.5	1136.7	1139.6	1143.0	1154.5	1159.4	1168.1
15°	1074.0	1067.6	1052.2	1053.4	1052.2	1067.6	1074.0	1071.4	1083.0	1089.3	1091.9
17.5°	996.7	992.0	991.7	982.8	991.7	992.0	996.7	1001.8	1011.8	1018.7	1037.1
20°	951.6	948.4	949.7	940.7	949.7	948.4	951.6	961.8	968.2	977.2	992.0
22.5°	916.2	913.0	907.6	904.8	907.6	913.0	916.2	923.4	930.3	942.9	951.0
25°	864.5	859.3	854.2	857.4	854.2	859.3	864.5	868.3	881.1	886.9	898.4
27.5°	812.7	808.9	803.7	803.1	803.7	808.9	812.7	816.4	823.5	833.2	847.0
30°	779.8	776.0	773.5	770.2	773.5	776.0	779.8	783.1	790.1	800.4	810.7
32.5°	746.6	745.8	741.2	740.5	741.2	745.8	746.6	751.8	758.8	768.6	777.3
35°	703.0	699.1	697.8	698.5	697.8	699.1	703.0	705.6	711.9	720.9	729.2
37.5°	661.5	656.4	654.1	651.8	654.1	656.4	661.5	661.9	668.5	674.5	685.7
40°	631.9	626.7	625.4	624.1	625.4	626.7	631.9	631.2	638.2	642.7	653.0
42.5°	598.5	596.5	595.7	593.4	595.7	596.5	598.5	601.9	605.9	612.5	620.2
45°	553.0	552.4	548.5	549.8	548.5	552.4	553.0	554.9	562.0	566.5	573.5
47.5°	505.1	502.2	499.5	501.3	499.5	502.2	505.1	507.6	512.4	517.9	527.3
50°	472.3	471.0	465.2	466.5	465.2	471.0	472.3	474.8	478.0	485.1	493.4
52.5°	439.4	434.6	432.4	431.6	432.4	434.6	439.4	442.1	445.7	453.8	460.1
55°	385.1	379.4	376.7	375.5	376.7	379.4	385.1	389.6	394.8	403.7	410.1
57.5°	331.8	330.3	328.2	329.6	328.2	330.3	331.8	339.2	344.2	351.3	359.1
60°	300.5	300.5	300.5	299.9	300.5	300.5	300.5	307.0	311.4	318.5	326.8
62.5°	276.5	274.9	274.4	275.3	274.4	274.9	276.5	279.2	283.7	288.2	295.5
65°	239.7	239.0	236.4	235.8	236.4	239.0	239.7	241.6	245.4	248.7	253.7
67.5°	205.0	202.6	201.9	201.0	201.9	202.6	205.0	206.6	209.1	213.3	215.8
70°	178.8	177.5	173.7	174.3	173.7	177.5	178.8	182.0	184.6	189.6	192.2
72.5°	150.6	149.3	148.5	147.7	148.5	149.3	150.6	153.8	156.4	162.0	166.1
75°	119.2	118.5	117.9	120.5	117.9	118.5	119.2	119.8	120.5	122.4	124.3
77.5°	95.5	95.5	95.9	94.8	95.9	95.5	95.5	95.5	95.5	96.5	96.9
80°	80.1	80.1	79.5	79.5	79.5	80.1	80.1	80.1	80.1	80.1	79.5
82.5°	64.2	64.7	65.1	64.1	65.1	64.7	64.2	65.2	65.7	64.7	65.1
85°	42.3	41.7	43.0	42.3	43.0	41.7	42.3	42.3	41.0	42.3	41.7
87.5°	23.7	22.7	22.8	23.4	22.8	22.7	23.7	22.6	22.5	22.3	21.7
90°	23.6	24.1	24.4	24.8	24.4	24.1	23.6	23.3	22.7	22.0	21.3
92.5°	34.0	33.8	33.6	33.3	33.6	33.8	34.0	34.2	34.1	33.5	32.9
95°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.1	63.3	62.6
97.5°	99.3	99.3	99.2	99.1	99.2	99.3	99.3	99.4	99.1	98.2	97.3
100°	124.4	124.8	125.1	125.6	125.1	124.8	124.4	124.1	123.6	123.1	122.5
102.5°	152.9	152.8	152.7	152.6	152.7	152.8	152.9	153.0	152.7	152.1	151.6
105°	195.5	195.8	196.2	196.6	196.2	195.8	195.5	195.1	194.9	194.9	194.9
107.5°	243.0	242.8	242.6	242.3	242.6	242.8	243.0	243.2	243.0	242.5	241.9
110°	274.5	274.1	273.8	273.4	273.8	274.1	274.5	274.8	274.7	273.9	273.2



TEST NUMBER: P332479-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	306.6	306.6	306.6	306.5	306.6	306.6	306.6	306.7	306.3	305.4	304.6
115°	352.5	352.2	352.0	351.9	352.0	352.2	352.5	352.6	352.6	352.5	352.2
117.5°	399.5	399.0	398.4	397.9	398.4	399.0	399.5	400.0	400.3	400.3	400.4
120°	431.5	431.0	430.7	430.3	430.7	431.0	431.5	431.8	432.1	432.3	432.4
122.5°	462.9	462.4	461.9	461.4	461.9	462.4	462.9	463.4	464.0	464.4	464.9
125°	510.2	509.5	508.7	508.0	508.7	509.5	510.2	510.9	511.7	512.4	513.1
127.5°	556.9	556.1	555.2	554.4	555.2	556.1	556.9	557.7	558.7	559.8	560.8
130°	588.6	587.3	586.1	584.8	586.1	587.3	588.6	590.0	590.9	591.7	592.4
132.5°	619.5	618.5	617.5	616.5	617.5	618.5	619.5	620.5	621.4	622.3	623.2
135°	666.8	666.5	666.1	665.8	666.1	666.5	666.8	667.2	667.7	668.5	669.2
137.5°	711.3	710.6	709.9	709.2	709.9	710.6	711.3	712.0	712.7	713.5	714.3
140°	741.4	740.2	738.9	737.6	738.9	740.2	741.4	742.7	743.5	743.6	743.9
142.5°	769.6	768.7	767.7	766.7	767.7	768.7	769.6	770.6	771.3	771.4	771.6
145°	810.8	810.1	809.3	808.6	809.3	810.1	810.8	811.5	812.0	812.2	812.4
147.5°	849.3	848.2	847.1	846.0	847.1	848.2	849.3	850.4	850.9	850.9	850.9
150°	873.1	872.0	870.9	869.8	870.9	872.0	873.1	874.2	874.7	874.7	874.7
152.5°	895.8	894.8	893.8	892.9	893.8	894.8	895.8	896.7	897.1	896.7	896.4
155°	928.1	926.8	925.6	924.3	925.6	926.8	928.1	929.4	929.7	929.0	928.2
157.5°	955.9	955.0	953.9	952.8	953.9	955.0	955.9	957.0	957.1	956.3	955.5
160°	973.5	972.8	972.1	971.3	972.1	972.8	973.5	974.3	974.2	973.3	972.4
162.5°	988.8	987.6	986.4	985.2	986.4	987.6	988.8	989.9	990.1	989.1	988.2
165°	1009.1	1007.8	1006.5	1005.3	1006.5	1007.8	1009.1	1010.4	1010.5	1009.3	1008.3
167.5°	1025.6	1024.5	1023.4	1022.2	1023.4	1024.5	1025.6	1026.8	1026.8	1025.6	1024.5
170°	1034.7	1033.4	1032.1	1030.9	1032.1	1033.4	1034.7	1036.0	1036.0	1034.7	1033.4
172.5°	1041.3	1040.0	1038.7	1037.5	1038.7	1040.0	1041.3	1042.6	1042.7	1041.5	1040.4
175°	1048.7	1047.4	1046.2	1044.9	1046.2	1047.4	1048.7	1050.0	1050.1	1049.0	1047.9
177.5°	1051.9	1050.9	1049.9	1048.9	1049.9	1050.9	1051.9	1053.0	1053.0	1052.1	1051.2
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332479-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1428.7	1435.9	1443.1	1449.8	1460.0	1464.6	1471.3	1473.8	1481.6	1492.8	1502.0
5°	1341.8	1352.1	1365.5	1376.5	1393.8	1407.2	1422.0	1436.1	1452.7	1476.4	1497.5
7.5°	1268.1	1278.3	1294.5	1314.7	1333.7	1352.8	1373.0	1392.2	1416.0	1450.0	1483.7
10°	1219.4	1231.6	1250.8	1272.6	1296.3	1314.9	1338.6	1363.0	1392.4	1431.6	1471.9
12.5°	1177.4	1186.5	1208.8	1229.6	1256.4	1280.1	1303.3	1331.7	1365.3	1407.0	1455.5
15°	1110.5	1123.3	1145.1	1168.2	1196.4	1221.4	1251.5	1286.1	1318.7	1370.0	1429.0
17.5°	1043.3	1062.8	1085.5	1111.5	1132.5	1166.9	1199.5	1235.1	1275.3	1329.7	1394.4
20°	1000.3	1015.7	1036.8	1074.6	1102.2	1128.5	1158.5	1202.8	1239.9	1301.5	1368.7
22.5°	963.9	975.2	998.9	1030.0	1062.2	1092.6	1123.2	1165.4	1211.2	1269.7	1342.6
25°	910.0	927.9	945.8	968.2	1002.8	1039.3	1072.7	1108.6	1157.3	1219.4	1298.3
27.5°	857.3	873.5	891.2	918.8	945.0	979.2	1014.0	1055.2	1107.4	1173.2	1253.1
30°	823.5	835.6	852.2	887.5	911.2	940.7	981.7	1018.2	1066.9	1136.8	1221.4
32.5°	788.6	804.3	822.6	849.5	878.9	906.9	944.3	983.9	1033.6	1102.4	1189.0
35°	738.8	757.4	776.0	795.9	825.3	854.2	885.6	929.2	979.7	1046.4	1131.6
37.5°	693.1	708.1	723.2	747.8	775.8	803.2	832.5	875.5	923.2	995.1	1073.2
40°	663.9	677.4	688.8	714.5	741.4	770.9	799.7	837.6	888.8	956.1	1031.7
42.5°	632.1	644.5	660.1	681.2	710.1	735.0	763.9	799.6	847.7	916.1	982.4
45°	584.4	598.5	612.0	631.9	660.6	685.0	710.6	744.6	793.9	850.4	909.3
47.5°	534.8	548.9	564.3	583.5	608.6	633.4	659.0	689.1	734.1	789.5	829.2
50°	503.0	514.5	529.9	549.2	572.3	598.5	621.6	654.3	697.2	740.8	775.3
52.5°	470.2	480.7	498.1	518.4	540.0	562.6	587.3	615.3	654.1	695.1	722.6
55°	419.1	431.9	446.6	466.5	487.6	506.9	530.6	559.5	590.2	620.9	639.5
57.5°	371.3	381.9	394.4	414.8	433.2	456.2	477.4	499.9	528.3	551.5	563.6
60°	336.4	346.0	362.1	380.0	397.3	417.2	441.5	463.9	485.8	504.3	513.9
62.5°	303.6	314.8	328.7	345.1	363.9	382.8	404.1	422.9	442.1	458.2	464.7
65°	260.8	269.8	280.1	295.4	310.8	330.0	346.7	365.9	380.0	389.0	394.8
67.5°	221.8	227.7	235.5	245.8	260.9	277.7	293.8	308.8	320.7	326.8	331.9
70°	196.7	200.6	206.4	216.6	228.1	242.9	259.5	270.4	280.7	285.8	290.9
72.5°	171.6	176.5	181.7	190.0	199.4	210.0	222.1	235.5	241.2	247.4	250.5
75°	130.1	137.1	144.1	149.3	155.7	164.0	175.0	183.3	186.5	191.6	192.2
77.5°	98.2	99.7	104.8	111.2	116.6	122.6	129.6	137.0	138.5	141.2	142.9
80°	80.7	80.7	80.7	84.5	91.0	95.5	101.9	105.7	108.3	108.9	109.6
82.5°	64.8	64.8	64.3	65.1	67.4	69.9	75.7	80.1	82.2	81.8	80.4
85°	42.3	41.0	41.0	40.4	41.0	39.7	39.1	41.7	45.5	45.5	44.2
87.5°	21.5	20.9	21.0	19.9	18.9	17.9	16.0	16.1	15.7	17.4	16.6
90°	20.5	19.8	17.4	15.1	12.6	10.3	8.2	6.4	4.5	2.7	0.8
92.5°	32.3	31.7	30.3	29.0	27.6	26.3	24.9	23.7	22.5	21.2	20.0
95°	61.9	61.1	59.7	58.2	56.7	55.3	53.9	52.6	51.3	50.0	48.8
97.5°	96.5	95.6	94.6	93.5	92.5	91.4	90.4	89.4	88.5	87.5	86.6
100°	122.0	121.4	120.5	119.6	118.7	117.7	116.8	115.6	114.5	113.4	112.3
102.5°	151.1	150.5	149.3	148.1	146.8	145.6	144.7	144.1	143.4	142.8	142.1
105°	194.9	194.9	193.3	191.6	190.0	188.3	187.4	186.9	186.6	186.2	185.9
107.5°	241.2	240.7	240.0	239.4	238.7	238.1	237.6	237.4	237.2	236.9	236.8
110°	272.5	271.7	271.4	271.0	270.7	270.3	269.9	269.5	269.2	268.8	268.5



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	303.7	302.8	302.7	302.6	302.6	302.5	302.4	302.1	301.9	301.7	301.5
115°	352.0	351.9	352.2	352.6	352.9	353.4	353.3	352.7	352.1	351.6	351.1
117.5°	400.4	400.5	400.9	401.4	401.9	402.4	402.4	402.0	401.7	401.3	401.0
120°	432.6	432.8	433.7	434.6	435.5	436.5	436.4	435.3	434.2	433.1	432.0
122.5°	465.4	465.9	466.4	466.8	467.3	467.7	467.6	466.8	466.0	465.2	464.4
125°	513.9	514.6	514.9	515.4	515.7	516.1	516.0	515.4	514.9	514.3	513.8
127.5°	561.8	562.8	563.2	563.6	564.0	564.4	564.0	562.9	561.7	560.5	559.4
130°	593.1	593.9	594.4	595.0	595.6	596.1	595.7	594.2	592.7	591.3	589.8
132.5°	624.0	624.9	625.3	625.7	626.1	626.6	626.1	624.6	623.1	621.6	620.1
135°	669.9	670.7	670.9	671.1	671.2	671.4	671.0	669.8	668.8	667.6	666.6
137.5°	715.0	715.8	715.3	714.9	714.4	713.9	713.2	712.2	711.3	710.5	709.6
140°	744.0	744.2	744.0	743.9	743.6	743.5	742.9	742.0	741.1	740.2	739.2
142.5°	771.8	772.0	771.7	771.3	770.9	770.6	770.1	769.1	768.2	767.3	766.4
145°	812.6	812.8	812.2	811.7	811.1	810.6	810.1	809.8	809.3	809.0	808.6
147.5°	850.9	850.9	850.4	849.9	849.4	848.9	848.3	847.7	846.9	846.3	845.6
150°	874.7	874.7	874.3	874.0	873.6	873.3	872.9	872.5	872.1	871.8	871.4
152.5°	896.2	895.9	895.7	895.4	895.2	895.0	894.6	894.1	893.6	893.1	892.6
155°	927.5	926.8	926.6	926.4	926.2	926.0	925.9	925.9	925.9	925.9	925.9
157.5°	954.8	954.0	953.9	953.7	953.6	953.4	953.5	953.7	953.9	954.1	954.4
160°	971.4	970.5	970.5	970.5	970.5	970.5	970.7	971.1	971.4	971.8	972.2
162.5°	987.3	986.4	986.3	986.1	985.9	985.8	986.0	986.5	987.0	987.6	988.1
165°	1007.1	1006.1	1006.1	1006.1	1006.1	1006.1	1006.3	1006.9	1007.5	1008.0	1008.5
167.5°	1023.4	1022.2	1022.1	1022.0	1021.8	1021.7	1022.0	1022.7	1023.4	1024.2	1024.9
170°	1032.1	1030.9	1030.9	1030.9	1030.9	1030.9	1031.2	1031.9	1032.7	1033.4	1034.1
172.5°	1039.3	1038.1	1038.1	1038.1	1038.1	1038.1	1038.4	1039.2	1039.9	1040.6	1041.4
175°	1046.8	1045.7	1045.7	1045.7	1045.7	1045.7	1046.1	1046.8	1047.6	1048.3	1049.0
177.5°	1050.4	1049.5	1049.5	1049.5	1049.5	1049.5	1049.8	1050.4	1051.0	1051.6	1052.1
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1505.1	1510.7	1517.9	1528.7	1536.9	1544.1	1545.6	1547.7	1552.8	1561.5	1568.1
5°	1514.8	1529.6	1553.3	1576.4	1601.3	1621.9	1641.1	1654.6	1667.4	1694.3	1716.0
7.5°	1511.8	1544.6	1581.8	1623.2	1665.1	1705.7	1743.4	1777.0	1810.6	1849.8	1894.6
10°	1509.7	1548.2	1598.1	1651.3	1709.7	1766.7	1821.8	1864.8	1914.7	1959.6	2016.6
12.5°	1500.0	1555.3	1615.1	1683.1	1754.8	1820.5	1893.0	1952.4	2009.5	2074.4	2140.6
15°	1487.3	1554.6	1630.2	1720.5	1829.5	1908.9	1983.3	2086.4	2157.0	2227.4	2322.3
17.5°	1464.1	1546.2	1640.7	1758.1	1848.9	1955.7	2067.6	2149.1	2244.1	2343.4	2429.3
20°	1445.6	1541.2	1646.8	1762.2	1878.2	1994.1	2102.5	2199.8	2297.9	2412.6	2483.1
22.5°	1427.2	1521.7	1631.5	1754.0	1878.7	2000.8	2123.4	2237.8	2348.1	2463.9	2553.8
25°	1388.0	1500.2	1619.3	1744.3	1867.3	2001.9	2148.0	2275.5	2412.0	2531.2	2616.4
27.5°	1348.3	1451.0	1569.7	1696.5	1833.2	1992.3	2164.1	2309.1	2445.8	2531.2	2557.9
30°	1312.4	1421.3	1530.2	1659.1	1807.0	1984.5	2167.1	2333.1	2445.3	2482.4	2454.9
32.5°	1275.9	1374.7	1482.5	1614.5	1771.6	1965.6	2171.3	2318.8	2386.3	2357.9	2245.7
35°	1211.8	1300.8	1405.2	1537.2	1718.0	1955.1	2154.3	2254.3	2237.7	2077.5	1866.0
37.5°	1143.0	1215.6	1312.4	1450.4	1662.4	1913.4	2081.5	2096.3	1952.2	1706.2	1461.9
40°	1088.8	1154.1	1253.4	1397.6	1619.3	1872.4	2008.2	1948.6	1725.0	1451.4	1247.7
42.5°	1035.9	1091.0	1186.7	1342.2	1578.3	1816.6	1899.1	1769.3	1511.2	1252.5	1067.2
45°	946.5	998.3	1094.5	1254.0	1494.4	1709.7	1698.8	1473.2	1215.0	1006.7	852.9
47.5°	861.6	907.0	997.2	1160.1	1395.8	1549.5	1447.6	1207.5	988.5	821.4	711.7
50°	801.6	846.5	936.2	1097.1	1316.9	1429.0	1283.5	1052.2	851.7	713.2	626.1
52.5°	744.2	788.1	870.1	1026.8	1221.5	1288.5	1132.3	917.9	750.6	631.2	556.4
55°	663.9	697.2	770.9	920.8	1066.3	1081.7	923.4	744.0	606.2	522.9	471.7
57.5°	582.0	610.7	683.5	802.9	904.9	897.0	746.9	591.7	499.0	437.0	399.8
60°	528.6	556.8	620.9	723.5	800.4	773.5	635.7	510.7	431.3	385.8	356.3
62.5°	478.9	501.0	560.9	635.8	691.1	660.6	543.4	439.9	376.9	338.6	315.3
65°	406.9	424.9	472.9	512.0	542.7	513.3	415.9	344.1	298.6	271.7	255.7
67.5°	338.4	349.8	380.3	394.4	416.0	383.7	312.7	264.6	238.8	216.1	205.0
70°	295.4	303.7	319.8	331.3	337.0	303.7	251.2	216.0	194.1	178.1	171.1
72.5°	252.3	259.7	262.9	272.3	269.4	238.1	201.9	173.9	158.2	147.4	138.3
75°	192.9	196.1	192.9	189.1	180.7	158.9	134.0	119.8	108.3	103.1	100.0
77.5°	140.6	139.6	135.2	129.2	115.0	101.3	87.8	83.1	78.0	75.3	74.2
80°	108.3	105.7	101.9	92.3	80.1	70.5	67.3	64.1	62.1	58.9	58.3
82.5°	80.6	79.1	72.6	64.6	56.0	51.5	48.8	47.7	45.7	44.1	43.9
85°	43.0	41.0	34.0	29.5	28.2	26.9	26.3	26.3	23.7	23.1	23.1
87.5°	14.3	11.7	11.5	10.4	10.8	10.2	11.3	10.7	10.6	11.3	10.4
90°	2.7	4.5	6.4	8.2	10.3	12.6	15.1	17.4	19.8	20.5	21.3
92.5°	21.2	22.5	23.7	24.9	26.3	27.6	29.0	30.3	31.7	32.3	32.9
95°	50.0	51.3	52.6	53.9	55.3	56.7	58.2	59.7	61.1	61.9	62.6
97.5°	87.5	88.5	89.4	90.4	91.4	92.5	93.5	94.6	95.6	96.5	97.3
100°	113.4	114.5	115.6	116.8	117.7	118.7	119.6	120.5	121.4	122.0	122.5
102.5°	142.8	143.4	144.1	144.7	145.6	146.8	148.1	149.3	150.5	151.1	151.6
105°	186.2	186.6	186.9	187.4	188.3	190.0	191.6	193.3	194.9	194.9	194.9
107.5°	236.9	237.2	237.4	237.6	238.1	238.7	239.4	240.0	240.7	241.2	241.9
110°	268.8	269.2	269.5	269.9	270.3	270.7	271.0	271.4	271.7	272.5	273.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	301.7	301.9	302.1	302.4	302.5	302.6	302.6	302.7	302.8	303.7	304.6
115°	351.6	352.1	352.7	353.3	353.4	352.9	352.6	352.2	351.9	352.0	352.2
117.5°	401.3	401.7	402.0	402.4	402.4	401.9	401.4	400.9	400.5	400.4	400.4
120°	433.1	434.2	435.3	436.4	436.5	435.5	434.6	433.7	432.8	432.6	432.4
122.5°	465.2	466.0	466.8	467.6	467.7	467.3	466.8	466.4	465.9	465.4	464.9
125°	514.3	514.9	515.4	516.0	516.1	515.7	515.4	514.9	514.6	513.9	513.1
127.5°	560.5	561.7	562.9	564.0	564.4	564.0	563.6	563.2	562.8	561.8	560.8
130°	591.3	592.7	594.2	595.7	596.1	595.6	595.0	594.4	593.9	593.1	592.4
132.5°	621.6	623.1	624.6	626.1	626.6	626.1	625.7	625.3	624.9	624.0	623.2
135°	667.6	668.8	669.8	671.0	671.4	671.2	671.1	670.9	670.7	669.9	669.2
137.5°	710.5	711.3	712.2	713.2	713.9	714.4	714.9	715.3	715.8	715.0	714.3
140°	740.2	741.1	742.0	742.9	743.5	743.6	743.9	744.0	744.2	744.0	743.9
142.5°	767.3	768.2	769.1	770.1	770.6	770.9	771.3	771.7	772.0	771.8	771.6
145°	809.0	809.3	809.8	810.1	810.6	811.1	811.7	812.2	812.8	812.6	812.4
147.5°	846.3	846.9	847.7	848.3	848.9	849.4	849.9	850.4	850.9	850.9	850.9
150°	871.8	872.1	872.5	872.9	873.3	873.6	874.0	874.3	874.7	874.7	874.7
152.5°	893.1	893.6	894.1	894.6	895.0	895.2	895.4	895.7	895.9	896.2	896.4
155°	925.9	925.9	925.9	925.9	926.0	926.2	926.4	926.6	926.8	927.5	928.2
157.5°	954.1	953.9	953.7	953.5	953.4	953.6	953.7	953.9	954.0	954.8	955.5
160°	971.8	971.4	971.1	970.7	970.5	970.5	970.5	970.5	970.5	971.4	972.4
162.5°	987.6	987.0	986.5	986.0	985.8	985.9	986.1	986.3	986.4	987.3	988.2
165°	1008.0	1007.5	1006.9	1006.3	1006.1	1006.1	1006.1	1006.1	1006.1	1007.1	1008.3
167.5°	1024.2	1023.4	1022.7	1022.0	1021.7	1021.8	1022.0	1022.1	1022.2	1023.4	1024.5
170°	1033.4	1032.7	1031.9	1031.2	1030.9	1030.9	1030.9	1030.9	1030.9	1032.1	1033.4
172.5°	1040.6	1039.9	1039.2	1038.4	1038.1	1038.1	1038.1	1038.1	1038.1	1039.3	1040.4
175°	1048.3	1047.6	1046.8	1046.1	1045.7	1045.7	1045.7	1045.7	1045.7	1046.8	1047.9
177.5°	1051.6	1051.0	1050.4	1049.8	1049.5	1049.5	1049.5	1049.5	1049.5	1050.4	1051.2
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1578.9	1578.9	1580.9	1588.7	1589.7	1596.4	1594.3
5°	1735.3	1747.4	1751.9	1771.2	1782.7	1787.9	1777.6
7.5°	1926.5	1960.9	1977.1	1997.2	2015.1	2020.5	2006.5
10°	2066.0	2101.8	2131.9	2150.5	2167.8	2179.4	2194.1
12.5°	2200.7	2244.8	2273.5	2299.7	2317.5	2332.2	2334.5
15°	2347.2	2413.9	2464.5	2501.7	2520.3	2529.9	2526.0
17.5°	2495.0	2556.8	2592.8	2630.7	2656.5	2657.8	2658.5
20°	2578.5	2638.8	2680.5	2708.7	2737.5	2736.2	2742.6
22.5°	2634.5	2681.8	2713.8	2734.3	2744.1	2739.3	2740.5
25°	2660.6	2674.7	2669.0	2636.3	2628.0	2597.8	2602.9
27.5°	2525.8	2459.1	2390.2	2301.5	2231.6	2175.6	2178.5
30°	2342.8	2224.9	2090.3	1977.5	1876.2	1848.0	1787.9
32.5°	2086.9	1910.1	1752.5	1647.4	1560.5	1536.9	1484.3
35°	1653.3	1481.6	1319.4	1222.0	1183.6	1129.8	1129.1
37.5°	1285.1	1133.8	1048.1	975.0	936.7	904.2	901.0
40°	1081.0	963.1	898.4	845.9	808.0	783.7	778.0
42.5°	938.5	843.2	782.5	750.0	720.9	708.3	699.0
45°	766.4	702.3	660.0	630.6	617.1	607.5	602.3
47.5°	641.1	598.1	569.3	549.7	538.7	528.6	531.3
50°	572.9	537.6	516.5	497.9	489.6	482.5	483.1
52.5°	518.0	486.4	469.3	455.8	445.5	440.5	438.1
55°	439.6	419.7	402.4	392.8	387.0	380.0	378.1
57.5°	375.0	359.6	345.5	334.6	333.2	326.4	327.3
60°	331.9	319.1	307.6	301.8	297.3	291.6	293.5
62.5°	296.5	285.8	275.3	270.5	266.0	261.8	262.7
65°	242.9	232.6	226.2	223.6	221.7	219.8	217.8
67.5°	193.6	187.3	183.3	177.7	173.8	173.2	171.2
70°	162.7	154.4	147.4	140.3	138.4	137.8	138.4
72.5°	130.4	125.2	123.3	119.8	119.4	117.8	119.0
75°	98.1	96.1	94.8	92.3	92.3	92.3	92.3
77.5°	72.3	71.1	70.4	69.9	69.2	68.3	68.2
80°	56.4	55.8	54.5	54.5	53.8	54.5	53.8
82.5°	42.6	42.4	41.2	41.2	40.5	40.1	40.5
85°	21.8	21.1	22.4	21.1	21.8	20.5	21.8
87.5°	10.5	10.7	10.3	10.4	9.9	11.0	10.1
90°	22.0	22.7	23.3	23.6	24.1	24.4	24.8
92.5°	33.5	34.1	34.2	34.0	33.8	33.6	33.3
95°	63.3	64.1	64.4	64.4	64.4	64.4	64.4
97.5°	98.2	99.1	99.4	99.3	99.3	99.2	99.1
100°	123.1	123.6	124.1	124.4	124.8	125.1	125.6
102.5°	152.1	152.7	153.0	152.9	152.8	152.7	152.6
105°	194.9	194.9	195.1	195.5	195.8	196.2	196.6
107.5°	242.5	243.0	243.2	243.0	242.8	242.6	242.3
110°	273.9	274.7	274.8	274.5	274.1	273.8	273.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	305.4	306.3	306.7	306.6	306.6	306.6	306.5
115°	352.5	352.6	352.6	352.5	352.2	352.0	351.9
117.5°	400.3	400.3	400.0	399.5	399.0	398.4	397.9
120°	432.3	432.1	431.8	431.5	431.0	430.7	430.3
122.5°	464.4	464.0	463.4	462.9	462.4	461.9	461.4
125°	512.4	511.7	510.9	510.2	509.5	508.7	508.0
127.5°	559.8	558.7	557.7	556.9	556.1	555.2	554.4
130°	591.7	590.9	590.0	588.6	587.3	586.1	584.8
132.5°	622.3	621.4	620.5	619.5	618.5	617.5	616.5
135°	668.5	667.7	667.2	666.8	666.5	666.1	665.8
137.5°	713.5	712.7	712.0	711.3	710.6	709.9	709.2
140°	743.6	743.5	742.7	741.4	740.2	738.9	737.6
142.5°	771.4	771.3	770.6	769.6	768.7	767.7	766.7
145°	812.2	812.0	811.5	810.8	810.1	809.3	808.6
147.5°	850.9	850.9	850.4	849.3	848.2	847.1	846.0
150°	874.7	874.7	874.2	873.1	872.0	870.9	869.8
152.5°	896.7	897.1	896.7	895.8	894.8	893.8	892.9
155°	929.0	929.7	929.4	928.1	926.8	925.6	924.3
157.5°	956.3	957.1	957.0	955.9	955.0	953.9	952.8
160°	973.3	974.2	974.3	973.5	972.8	972.1	971.3
162.5°	989.1	990.1	989.9	988.8	987.6	986.4	985.2
165°	1009.3	1010.5	1010.4	1009.1	1007.8	1006.5	1005.3
167.5°	1025.6	1026.8	1026.8	1025.6	1024.5	1023.4	1022.2
170°	1034.7	1036.0	1036.0	1034.7	1033.4	1032.1	1030.9
172.5°	1041.5	1042.7	1042.6	1041.3	1040.0	1038.7	1037.5
175°	1049.0	1050.1	1050.0	1048.7	1047.4	1046.2	1044.9
177.5°	1052.1	1053.0	1053.0	1051.9	1050.9	1049.9	1048.9
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5

(END OF REPORT)