

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: P331568-940

Luminaire Tested: **S122DIW-S865D970U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331568-940
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: S122DIW-S865D970U940-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6393.5 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

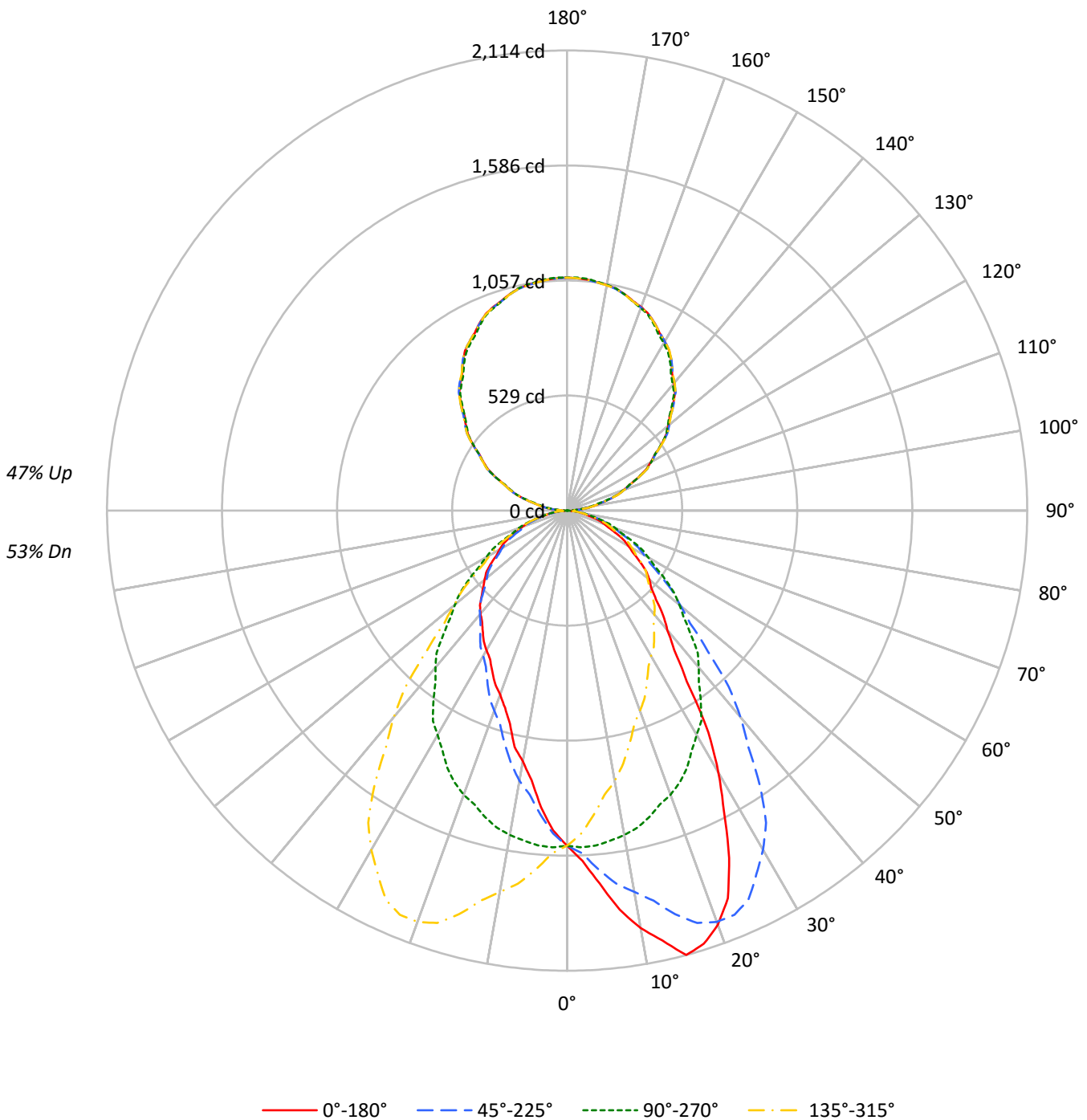
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	83	77	73	84	78	72	68	67	63	60	57	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	35	32	29	26
6	65	53	45	39	60	50	43	37	43	38	33	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	31	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	21	25	21	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24857	24857	24857	24857
5°	27869	25020	22172	25020
10°	31936	24815	19189	24815
15°	35328	24359	16951	24359
20°	34790	23871	15454	23871
25°	31370	23222	14503	23222
30°	25922	22184	13811	22184
35°	18892	21098	13318	21098
40°	15091	19816	13044	19816
45°	13186	18333	12673	18333
50°	12396	16900	12424	16900
55°	11426	15440	12090	15440
60°	10469	13892	11580	13892
65°	9540	12500	11075	12500
70°	8658	11146	10334	11146
75°	7679	9632	9158	9632
80°	6602	7978	7373	7978
85°	5910	5910	4372	5910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	2.3
10°-20°	426.3	6.7
20°-30°	618.6	9.7
30°-40°	652.8	10.2
40°-50°	578.0	9.0
50°-60°	461.3	7.2
60°-70°	313.5	4.9
70°-80°	160.7	2.5
80°-90°	43.0	0.7
90°-100°	67.8	1.1
100°-110°	210.6	3.3
110°-120°	360.0	5.6
120°-130°	473.5	7.4
130°-140°	531.4	8.3
140°-150°	521.1	8.1
150°-160°	437.0	6.8
160°-170°	289.9	4.5
170°-180°	101.3	1.6
0°-30°	1191.5	18.6
0°-40°	1844.3	28.8
0°-60°	2883.6	45.1
0°-90°	3400.9	53.2
90°-120°	638.5	10.0
90°-150°	2164.4	33.9
90°-180°	2993.0	46.8
0°-180°	6393.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1540	1540	1540	1540	1540	
5°	1720	1544	1368	1544	1720	172
15°	2114	1457	1014	1457	2114	583
25°	1761	1304	814	1304	1761	796
35°	958	1070	676	1070	958	623
45°	578	803	555	803	578	454
55°	406	548	430	548	406	364
65°	250	327	290	327	250	248
75°	123	154	147	154	123	132
85°	32	32	24	32	32	36
90°	31	1	31	1	31	15
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°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1610.6	1611.1	1612.0	1604.5	1603.5	1603.5	1596.9	1591.2	1584.6	1575.6	1576.5
5°	1719.5	1726.0	1728.3	1721.3	1710.6	1709.4	1699.3	1682.7	1667.4	1654.9	1646.1
7.5°	1849.4	1852.0	1846.2	1836.8	1828.9	1814.7	1796.0	1777.7	1752.0	1728.5	1710.9
10°	1947.9	1951.4	1941.3	1927.7	1916.5	1899.9	1872.7	1844.9	1811.2	1778.6	1752.6
12.5°	2022.7	2031.4	2018.5	2016.7	1997.4	1974.7	1942.3	1928.2	1880.8	1835.4	1807.5
15°	2113.5	2112.9	2114.2	2102.8	2088.7	2085.1	2050.8	2013.6	1946.7	1920.0	1873.9
17.5°	2087.2	2096.2	2100.4	2100.2	2099.9	2097.7	2086.7	2063.2	2029.6	1986.5	1933.1
20°	2024.8	2036.6	2038.4	2052.0	2059.7	2069.7	2073.9	2067.3	2046.7	2010.5	1964.4
22.5°	1928.2	1931.5	1937.1	1958.3	1975.0	2000.2	2013.3	2035.2	2027.2	2009.6	1971.0
25°	1760.9	1755.0	1775.7	1786.3	1824.8	1865.0	1894.0	1925.9	1954.4	1971.5	1960.2
27.5°	1560.0	1551.0	1582.1	1610.3	1641.6	1685.2	1730.4	1783.7	1828.1	1883.6	1902.6
30°	1390.4	1395.8	1425.4	1455.5	1502.9	1564.4	1615.3	1673.9	1737.2	1799.3	1842.5
32.5°	1207.7	1228.2	1247.0	1293.2	1334.9	1403.5	1478.0	1551.3	1630.2	1700.8	1767.7
35°	958.5	982.2	1008.3	1042.0	1100.5	1168.6	1241.4	1340.2	1447.9	1544.4	1623.6
37.5°	806.8	803.1	818.0	842.3	889.7	944.7	1028.5	1126.1	1252.9	1366.2	1478.0
40°	716.0	713.5	724.2	746.7	782.8	823.0	896.4	982.2	1099.9	1238.4	1371.5
42.5°	653.4	654.9	660.8	676.6	701.4	734.5	789.4	862.5	970.3	1100.6	1243.8
45°	577.5	581.7	588.2	595.8	610.0	637.2	668.0	720.1	805.3	914.2	1055.0
47.5°	522.8	522.9	529.6	536.3	544.7	560.1	585.1	617.9	678.0	766.6	887.7
50°	493.5	489.4	494.1	499.4	508.3	518.9	535.5	566.2	606.5	678.1	779.3
52.5°	457.5	457.6	461.9	463.9	471.8	482.5	497.6	518.9	555.4	611.4	694.6
55°	405.9	408.8	411.3	414.7	421.9	429.5	441.4	455.6	484.0	526.0	587.5
57.5°	357.4	358.3	360.7	367.5	371.9	379.1	390.3	403.1	421.6	452.7	499.0
60°	324.2	324.2	329.0	331.9	337.9	344.9	353.8	366.2	382.8	408.2	445.6
62.5°	294.0	293.5	295.3	300.2	304.7	311.4	320.2	330.7	346.3	369.0	399.7
65°	249.7	248.5	252.1	253.2	258.0	264.5	271.6	282.9	295.2	311.8	339.0
67.5°	207.1	208.5	210.4	212.7	215.3	222.1	226.9	234.8	245.3	259.0	277.5
70°	183.4	183.4	183.4	185.2	188.8	192.3	197.1	203.6	213.6	225.4	242.0
72.5°	156.9	158.8	160.7	159.6	164.2	166.3	171.9	175.6	185.2	192.8	207.4
75°	123.1	123.1	123.1	126.0	127.8	129.6	133.1	136.7	141.4	150.9	158.5
77.5°	91.8	91.6	92.2	92.9	94.8	96.9	98.0	101.2	105.6	109.9	116.5
80°	71.0	72.2	72.8	73.9	73.9	75.2	75.7	79.9	82.8	85.8	90.0
82.5°	54.9	55.1	55.3	55.5	56.0	56.7	58.2	59.6	60.5	63.0	66.3
85°	31.9	31.4	31.4	32.5	31.9	31.9	33.2	34.3	34.3	34.9	36.6
87.5°	18.5	18.4	18.8	18.4	18.3	18.8	18.9	18.5	19.0	19.6	19.2
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°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1579.8	1576.0	1573.7	1565.1	1557.6	1550.0	1547.7	1548.5	1538.2	1528.2	1523.9
5°	1641.4	1629.5	1618.3	1602.3	1583.4	1562.6	1552.0	1543.7	1523.0	1500.6	1487.6
7.5°	1696.5	1679.5	1658.0	1627.9	1600.3	1567.7	1547.0	1528.7	1498.4	1466.7	1447.2
10°	1730.1	1707.0	1679.2	1642.5	1608.8	1569.1	1541.3	1513.6	1478.0	1440.2	1416.5
12.5°	1759.0	1727.9	1700.5	1653.4	1613.6	1564.0	1531.0	1491.7	1454.4	1409.4	1386.3
15°	1827.7	1770.3	1718.2	1665.0	1615.9	1546.7	1510.0	1457.3	1408.2	1352.6	1326.0
17.5°	1880.9	1816.4	1734.4	1666.7	1609.4	1532.8	1478.9	1415.8	1357.7	1294.1	1257.9
20°	1911.2	1837.2	1749.0	1668.6	1599.9	1512.3	1453.8	1389.3	1321.2	1249.6	1210.6
22.5°	1929.1	1851.4	1764.2	1661.4	1581.0	1495.8	1422.1	1351.4	1282.5	1205.1	1164.2
25°	1934.8	1863.9	1771.6	1655.6	1557.4	1460.9	1372.2	1303.5	1220.0	1147.9	1088.2
27.5°	1906.7	1855.7	1767.0	1644.4	1530.0	1417.2	1318.3	1240.5	1152.5	1074.2	1014.1
30°	1872.1	1842.5	1756.1	1633.1	1508.2	1387.0	1278.1	1189.9	1102.3	1023.1	961.5
32.5°	1818.6	1812.2	1736.3	1616.9	1485.1	1348.6	1235.9	1146.8	1049.8	971.9	913.2
35°	1713.5	1742.0	1694.0	1581.0	1441.4	1294.1	1172.2	1070.4	969.8	895.2	840.2
37.5°	1572.7	1643.2	1630.7	1528.3	1382.4	1234.7	1100.1	993.7	897.9	822.6	768.6
40°	1475.7	1565.6	1578.6	1488.1	1340.8	1188.7	1046.2	940.2	846.7	778.1	723.6
42.5°	1371.5	1476.6	1512.3	1439.8	1295.3	1140.4	997.8	888.1	795.6	728.9	680.6
45°	1197.0	1336.1	1400.5	1359.1	1219.5	1060.9	914.2	802.9	718.9	656.2	618.9
47.5°	1033.8	1185.7	1272.5	1257.8	1135.1	978.0	832.9	726.2	644.4	594.4	561.1
50°	918.3	1074.5	1179.2	1184.0	1074.5	918.9	773.4	672.8	597.6	550.9	523.6
52.5°	818.0	967.1	1081.3	1106.3	1006.8	857.4	719.9	619.7	553.6	510.6	486.2
55°	687.0	813.0	939.6	985.8	905.9	763.8	636.7	548.5	486.3	456.8	435.5
57.5°	571.1	676.2	793.1	844.1	794.9	673.3	554.0	477.5	427.0	401.2	384.9
60°	510.1	592.9	697.1	758.0	715.3	607.1	502.9	430.2	388.8	365.7	350.3
62.5°	453.3	526.6	614.7	670.4	647.2	545.1	451.8	387.5	351.8	330.2	319.1
65°	374.0	431.9	500.0	551.4	536.1	458.5	382.3	327.2	298.8	281.6	272.8
67.5°	307.9	349.8	397.0	442.1	429.7	374.8	313.4	270.6	249.5	234.7	229.3
70°	266.3	298.2	340.2	376.3	366.2	321.3	272.8	236.1	217.8	205.4	200.0
72.5°	226.5	252.8	284.8	314.3	307.6	270.2	229.7	202.0	187.9	176.5	172.1
75°	171.0	191.1	210.6	230.2	228.4	199.4	175.8	154.4	143.2	134.3	132.5
77.5°	126.3	137.5	150.8	162.4	159.2	142.6	124.0	111.8	103.5	97.6	96.7
80°	96.5	103.0	112.4	120.7	116.5	109.5	94.7	85.8	79.9	73.9	71.6
82.5°	69.9	76.4	82.1	86.6	83.5	76.8	67.7	61.6	58.1	54.0	53.1
85°	36.6	40.2	42.6	43.8	42.6	38.4	34.3	31.9	29.0	27.2	26.7
87.5°	18.7	17.8	17.0	17.3	15.3	14.9	12.5	10.6	10.6	10.6	10.2
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: P331568-940

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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: P331568-940

CATALOG NUMBER: S122DIW-S865D970U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1519.2	1516.4	1506.5	1501.3	1492.7	1484.7	1479.4	1481.8	1483.7	1482.7	1481.4
5°	1475.7	1464.5	1447.2	1432.4	1421.8	1402.3	1394.0	1389.9	1386.3	1382.2	1378.0
7.5°	1423.9	1406.1	1381.4	1360.4	1340.5	1316.3	1302.4	1294.1	1285.7	1276.3	1268.0
10°	1387.0	1362.1	1336.1	1306.4	1282.8	1260.9	1241.4	1228.3	1216.6	1205.2	1197.0
12.5°	1348.1	1319.5	1287.3	1246.8	1220.8	1189.5	1186.4	1163.5	1145.0	1138.1	1128.4
15°	1286.4	1246.1	1205.2	1157.4	1136.7	1108.2	1090.5	1072.7	1056.8	1045.5	1042.6
17.5°	1216.2	1164.1	1123.5	1089.0	1055.1	1026.0	1009.7	995.5	982.3	967.3	965.3
20°	1162.7	1117.7	1073.4	1043.1	1008.3	978.7	958.5	944.3	933.1	924.3	916.5
22.5°	1112.1	1062.8	1022.2	989.2	954.8	930.9	915.0	901.3	891.9	882.1	874.9
25°	1030.7	992.3	947.9	910.6	882.2	866.8	853.8	842.0	836.1	829.6	821.3
27.5°	959.6	916.9	875.4	846.5	821.5	807.9	798.7	790.6	785.1	781.2	776.5
30°	909.5	866.2	833.7	805.3	784.6	771.0	765.1	760.4	753.9	751.4	749.1
32.5°	861.1	822.2	794.4	769.8	750.0	741.2	735.8	731.5	726.4	724.0	719.3
35°	792.9	760.4	733.1	719.5	703.6	695.8	691.7	685.8	681.0	678.7	678.1
37.5°	728.6	700.3	682.4	664.9	658.2	653.4	647.8	643.7	642.3	641.9	641.4
40°	687.0	663.9	647.9	633.7	630.7	623.7	618.9	615.4	615.4	616.0	615.4
42.5°	649.1	628.4	614.3	602.0	598.5	594.3	589.6	589.3	590.3	592.3	590.3
45°	591.7	576.9	566.9	560.9	554.4	550.3	549.7	551.4	552.1	552.7	554.4
47.5°	539.0	529.1	520.0	513.4	510.6	509.9	509.2	512.3	515.1	516.2	518.9
50°	507.7	496.4	488.7	484.6	482.2	481.1	482.2	485.8	488.1	491.1	492.8
52.5°	472.6	464.7	459.4	456.2	455.2	455.9	456.2	460.2	464.0	465.0	465.9
55°	424.3	418.3	417.1	411.8	414.2	413.6	416.5	418.9	422.5	426.1	426.6
57.5°	375.9	371.2	368.0	368.5	369.3	371.8	374.3	378.4	382.3	386.0	386.4
60°	343.8	341.4	339.7	339.7	340.8	344.4	347.3	351.4	353.8	356.2	357.9
62.5°	314.4	312.1	310.3	311.2	314.3	316.5	319.9	322.1	324.5	326.8	327.7
65°	268.0	266.9	268.7	269.8	270.4	273.4	277.5	279.3	281.6	282.9	287.0
67.5°	225.3	225.5	225.3	226.9	230.4	231.1	235.1	239.2	239.6	241.9	244.6
70°	196.4	197.6	198.9	200.0	203.0	204.1	207.1	208.8	211.2	213.0	214.8
72.5°	170.0	170.1	171.4	171.1	173.6	176.2	178.7	180.5	182.8	185.1	186.8
75°	130.7	130.7	132.0	132.5	135.5	138.5	137.9	139.0	141.4	143.7	145.0
77.5°	95.5	94.2	95.5	96.1	97.0	99.5	100.0	101.7	104.3	103.5	104.9
80°	72.8	71.0	72.8	73.4	73.4	76.3	76.3	77.5	79.3	77.5	79.3
82.5°	52.0	51.1	52.4	52.5	53.5	53.6	54.6	54.8	56.5	55.7	56.5
85°	26.0	25.4	26.0	25.4	26.0	26.7	26.7	26.0	26.0	27.2	25.4
87.5°	10.2	10.3	10.8	11.7	12.0	12.5	11.9	11.9	11.8	10.7	10.7
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: P331568-940

CATALOG NUMBER: S122DIW-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



TEST NUMBER: P331568-940

CATALOG NUMBER: S122DIW-S865D970U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1476.6	1475.7	1475.7	1471.4	1475.7	1475.7	1476.6	1481.4	1482.7	1483.7	1481.8
5°	1369.8	1368.0	1365.0	1368.0	1365.0	1368.0	1369.8	1378.0	1382.2	1386.3	1389.9
7.5°	1264.1	1257.0	1255.9	1248.9	1255.9	1257.0	1264.1	1268.0	1276.3	1285.7	1294.1
10°	1187.0	1182.2	1181.6	1170.4	1181.6	1182.2	1187.0	1197.0	1205.2	1216.6	1228.3
12.5°	1128.3	1116.9	1119.1	1112.6	1119.1	1116.9	1128.3	1128.4	1138.1	1145.0	1163.5
15°	1026.6	1026.6	1024.2	1014.1	1024.2	1026.6	1026.6	1042.6	1045.5	1056.8	1072.7
17.5°	953.6	952.3	946.7	949.6	946.7	952.3	953.6	965.3	967.3	982.3	995.5
20°	910.0	906.5	899.4	899.4	899.4	906.5	910.0	916.5	924.3	933.1	944.3
22.5°	868.9	868.6	861.0	863.4	861.0	868.6	868.9	874.9	882.1	891.9	901.3
25°	820.6	815.9	812.4	814.1	812.4	815.9	820.6	821.3	829.6	836.1	842.0
27.5°	775.0	772.4	772.1	767.3	772.1	772.4	775.0	776.5	781.2	785.1	790.6
30°	748.5	742.6	743.8	740.8	743.8	742.6	748.5	749.1	751.4	753.9	760.4
32.5°	718.2	716.0	714.9	712.4	714.9	716.0	718.2	719.3	724.0	726.4	731.5
35°	676.9	677.5	674.5	675.7	674.5	677.5	676.9	678.1	678.7	681.0	685.8
37.5°	640.8	642.7	641.3	641.7	641.3	642.7	640.8	641.4	641.9	642.3	643.7
40°	617.2	617.2	617.2	618.9	617.2	617.2	617.2	615.4	616.0	615.4	615.4
42.5°	594.4	593.4	592.5	592.4	592.5	593.4	594.4	590.3	592.3	590.3	589.3
45°	555.6	557.4	557.9	555.0	557.9	557.4	555.6	554.4	552.7	552.1	551.4
47.5°	520.5	520.7	520.5	523.1	520.5	520.7	520.5	518.9	516.2	515.1	512.3
50°	495.9	494.6	495.9	494.6	495.9	494.6	495.9	492.8	491.1	488.1	485.8
52.5°	469.8	470.0	469.3	469.1	469.3	470.0	469.8	465.9	465.0	464.0	460.2
55°	429.0	430.2	429.5	429.5	429.5	430.2	429.0	426.6	426.1	422.5	418.9
57.5°	386.7	387.8	388.6	386.0	388.6	387.8	386.7	386.4	386.0	382.3	378.4
60°	357.4	360.3	359.7	358.6	359.7	360.3	357.4	357.9	356.2	353.8	351.4
62.5°	330.4	331.4	331.4	331.1	331.4	331.4	330.4	327.7	326.8	324.5	322.1
65°	288.7	289.9	288.1	289.9	288.1	289.9	288.7	287.0	282.9	281.6	279.3
67.5°	243.9	244.2	245.6	246.4	245.6	244.2	243.9	244.6	241.9	239.6	239.2
70°	216.0	215.3	217.1	218.9	217.1	215.3	216.0	214.8	213.0	211.2	208.8
72.5°	186.6	187.9	187.3	188.6	187.3	187.9	186.6	186.8	185.1	182.8	180.5
75°	143.7	145.5	145.0	146.8	145.0	145.5	143.7	145.0	143.7	141.4	139.0
77.5°	103.9	104.2	103.9	104.9	103.9	104.2	103.9	104.9	103.5	104.3	101.7
80°	79.3	78.1	77.0	79.3	77.0	78.1	79.3	79.3	77.5	79.3	77.5
82.5°	55.1	55.8	54.7	54.7	54.7	55.8	55.1	56.5	55.7	56.5	54.8
85°	25.4	24.9	23.6	23.6	23.6	24.9	25.4	25.4	27.2	26.0	26.0
87.5°	10.8	10.3	10.3	9.9	10.3	10.3	10.8	10.7	10.7	11.8	11.9
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



TEST NUMBER: P331568-940

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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



TEST NUMBER: P331568-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1479.4	1484.7	1492.7	1501.3	1506.5	1516.4	1519.2	1523.9	1528.2	1538.2	1548.5
5°	1394.0	1402.3	1421.8	1432.4	1447.2	1464.5	1475.7	1487.6	1500.6	1523.0	1543.7
7.5°	1302.4	1316.3	1340.5	1360.4	1381.4	1406.1	1423.9	1447.2	1466.7	1498.4	1528.7
10°	1241.4	1260.9	1282.8	1306.4	1336.1	1362.1	1387.0	1416.5	1440.2	1478.0	1513.6
12.5°	1186.4	1189.5	1220.8	1246.8	1287.3	1319.5	1348.1	1386.3	1409.4	1454.4	1491.7
15°	1090.5	1108.2	1136.7	1157.4	1205.2	1246.1	1286.4	1326.0	1352.6	1408.2	1457.3
17.5°	1009.7	1026.0	1055.1	1089.0	1123.5	1164.1	1216.2	1257.9	1294.1	1357.7	1415.8
20°	958.5	978.7	1008.3	1043.1	1073.4	1117.7	1162.7	1210.6	1249.6	1321.2	1389.3
22.5°	915.0	930.9	954.8	989.2	1022.2	1062.8	1112.1	1164.2	1205.1	1282.5	1351.4
25°	853.8	866.8	882.2	910.6	947.9	992.3	1030.7	1088.2	1147.9	1220.0	1303.5
27.5°	798.7	807.9	821.5	846.5	875.4	916.9	959.6	1014.1	1074.2	1152.5	1240.5
30°	765.1	771.0	784.6	805.3	833.7	866.2	909.5	961.5	1023.1	1102.3	1189.9
32.5°	735.8	741.2	750.0	769.8	794.4	822.2	861.1	913.2	971.9	1049.8	1146.8
35°	691.7	695.8	703.6	719.5	733.1	760.4	792.9	840.2	895.2	969.8	1070.4
37.5°	647.8	653.4	658.2	664.9	682.4	700.3	728.6	768.6	822.6	897.9	993.7
40°	618.9	623.7	630.7	633.7	647.9	663.9	687.0	723.6	778.1	846.7	940.2
42.5°	589.6	594.3	598.5	602.0	614.3	628.4	649.1	680.6	728.9	795.6	888.1
45°	549.7	550.3	554.4	560.9	566.9	576.9	591.7	618.9	656.2	718.9	802.9
47.5°	509.2	509.9	510.6	513.4	520.0	529.1	539.0	561.1	594.4	644.4	726.2
50°	482.2	481.1	482.2	484.6	488.7	496.4	507.7	523.6	550.9	597.6	672.8
52.5°	456.2	455.9	455.2	456.2	459.4	464.7	472.6	486.2	510.6	553.6	619.7
55°	416.5	413.6	414.2	411.8	417.1	418.3	424.3	435.5	456.8	486.3	548.5
57.5°	374.3	371.8	369.3	368.5	368.0	371.2	375.9	384.9	401.2	427.0	477.5
60°	347.3	344.4	340.8	339.7	339.7	341.4	343.8	350.3	365.7	388.8	430.2
62.5°	319.9	316.5	314.3	311.2	310.3	312.1	314.4	319.1	330.2	351.8	387.5
65°	277.5	273.4	270.4	269.8	268.7	266.9	268.0	272.8	281.6	298.8	327.2
67.5°	235.1	231.1	230.4	226.9	225.3	225.5	225.3	229.3	234.7	249.5	270.6
70°	207.1	204.1	203.0	200.0	198.9	197.6	196.4	200.0	205.4	217.8	236.1
72.5°	178.7	176.2	173.6	171.1	171.4	170.1	170.0	172.1	176.5	187.9	202.0
75°	137.9	138.5	135.5	132.5	132.0	130.7	130.7	132.5	134.3	143.2	154.4
77.5°	100.0	99.5	97.0	96.1	95.5	94.2	95.5	96.7	97.6	103.5	111.8
80°	76.3	76.3	73.4	73.4	72.8	71.0	72.8	71.6	73.9	79.9	85.8
82.5°	54.6	53.6	53.5	52.5	52.4	51.1	52.0	53.1	54.0	58.1	61.6
85°	26.7	26.7	26.0	25.4	26.0	25.4	26.0	26.7	27.2	29.0	31.9
87.5°	11.9	12.5	12.0	11.7	10.8	10.3	10.2	10.2	10.6	10.6	10.6
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



TEST NUMBER: P331568-940

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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



TEST NUMBER: P331568-940

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1547.7	1550.0	1557.6	1565.1	1573.7	1576.0	1579.8	1576.5	1575.6	1584.6	1591.2
5°	1552.0	1562.6	1583.4	1602.3	1618.3	1629.5	1641.4	1646.1	1654.9	1667.4	1682.7
7.5°	1547.0	1567.7	1600.3	1627.9	1658.0	1679.5	1696.5	1710.9	1728.5	1752.0	1777.7
10°	1541.3	1569.1	1608.8	1642.5	1679.2	1707.0	1730.1	1752.6	1778.6	1811.2	1844.9
12.5°	1531.0	1564.0	1613.6	1653.4	1700.5	1727.9	1759.0	1807.5	1835.4	1880.8	1928.2
15°	1510.0	1546.7	1615.9	1665.0	1718.2	1770.3	1827.7	1873.9	1920.0	1946.7	2013.6
17.5°	1478.9	1532.8	1609.4	1666.7	1734.4	1816.4	1880.9	1933.1	1986.5	2029.6	2063.2
20°	1453.8	1512.3	1599.9	1668.6	1749.0	1837.2	1911.2	1964.4	2010.5	2046.7	2067.3
22.5°	1422.1	1495.8	1581.0	1661.4	1764.2	1851.4	1929.1	1971.0	2009.6	2027.2	2035.2
25°	1372.2	1460.9	1557.4	1655.6	1771.6	1863.9	1934.8	1960.2	1971.5	1954.4	1925.9
27.5°	1318.3	1417.2	1530.0	1644.4	1767.0	1855.7	1906.7	1902.6	1883.6	1828.1	1783.7
30°	1278.1	1387.0	1508.2	1633.1	1756.1	1842.5	1872.1	1842.5	1799.3	1737.2	1673.9
32.5°	1235.9	1348.6	1485.1	1616.9	1736.3	1812.2	1818.6	1767.7	1700.8	1630.2	1551.3
35°	1172.2	1294.1	1441.4	1581.0	1694.0	1742.0	1713.5	1623.6	1544.4	1447.9	1340.2
37.5°	1100.1	1234.7	1382.4	1528.3	1630.7	1643.2	1572.7	1478.0	1366.2	1252.9	1126.1
40°	1046.2	1188.7	1340.8	1488.1	1578.6	1565.6	1475.7	1371.5	1238.4	1099.9	982.2
42.5°	997.8	1140.4	1295.3	1439.8	1512.3	1476.6	1371.5	1243.8	1100.6	970.3	862.5
45°	914.2	1060.9	1219.5	1359.1	1400.5	1336.1	1197.0	1055.0	914.2	805.3	720.1
47.5°	832.9	978.0	1135.1	1257.8	1272.5	1185.7	1033.8	887.7	766.6	678.0	617.9
50°	773.4	918.9	1074.5	1184.0	1179.2	1074.5	918.3	779.3	678.1	606.5	566.2
52.5°	719.9	857.4	1006.8	1106.3	1081.3	967.1	818.0	694.6	611.4	555.4	518.9
55°	636.7	763.8	905.9	985.8	939.6	813.0	687.0	587.5	526.0	484.0	455.6
57.5°	554.0	673.3	794.9	844.1	793.1	676.2	571.1	499.0	452.7	421.6	403.1
60°	502.9	607.1	715.3	758.0	697.1	592.9	510.1	445.6	408.2	382.8	366.2
62.5°	451.8	545.1	647.2	670.4	614.7	526.6	453.3	399.7	369.0	346.3	330.7
65°	382.3	458.5	536.1	551.4	500.0	431.9	374.0	339.0	311.8	295.2	282.9
67.5°	313.4	374.8	429.7	442.1	397.0	349.8	307.9	277.5	259.0	245.3	234.8
70°	272.8	321.3	366.2	376.3	340.2	298.2	266.3	242.0	225.4	213.6	203.6
72.5°	229.7	270.2	307.6	314.3	284.8	252.8	226.5	207.4	192.8	185.2	175.6
75°	175.8	199.4	228.4	230.2	210.6	191.1	171.0	158.5	150.9	141.4	136.7
77.5°	124.0	142.6	159.2	162.4	150.8	137.5	126.3	116.5	109.9	105.6	101.2
80°	94.7	109.5	116.5	120.7	112.4	103.0	96.5	90.0	85.8	82.8	79.9
82.5°	67.7	76.8	83.5	86.6	82.1	76.4	69.9	66.3	63.0	60.5	59.6
85°	34.3	38.4	42.6	43.8	42.6	40.2	36.6	36.6	34.9	34.3	34.3
87.5°	12.5	14.9	15.3	17.3	17.0	17.8	18.7	19.2	19.6	19.0	18.5
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°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1596.9	1603.5	1603.5	1604.5	1612.0	1611.1	1610.6
5°	1699.3	1709.4	1710.6	1721.3	1728.3	1726.0	1719.5
7.5°	1796.0	1814.7	1828.9	1836.8	1846.2	1852.0	1849.4
10°	1872.7	1899.9	1916.5	1927.7	1941.3	1951.4	1947.9
12.5°	1942.3	1974.7	1997.4	2016.7	2018.5	2031.4	2022.7
15°	2050.8	2085.1	2088.7	2102.8	2114.2	2112.9	2113.5
17.5°	2086.7	2097.7	2099.9	2100.2	2100.4	2096.2	2087.2
20°	2073.9	2069.7	2059.7	2052.0	2038.4	2036.6	2024.8
22.5°	2013.3	2000.2	1975.0	1958.3	1937.1	1931.5	1928.2
25°	1894.0	1865.0	1824.8	1786.3	1775.7	1755.0	1760.9
27.5°	1730.4	1685.2	1641.6	1610.3	1582.1	1551.0	1560.0
30°	1615.3	1564.4	1502.9	1455.5	1425.4	1395.8	1390.4
32.5°	1478.0	1403.5	1334.9	1293.2	1247.0	1228.2	1207.7
35°	1241.4	1168.6	1100.5	1042.0	1008.3	982.2	958.5
37.5°	1028.5	944.7	889.7	842.3	818.0	803.1	806.8
40°	896.4	823.0	782.8	746.7	724.2	713.5	716.0
42.5°	789.4	734.5	701.4	676.6	660.8	654.9	653.4
45°	668.0	637.2	610.0	595.8	588.2	581.7	577.5
47.5°	585.1	560.1	544.7	536.3	529.6	522.9	522.8
50°	535.5	518.9	508.3	499.4	494.1	489.4	493.5
52.5°	497.6	482.5	471.8	463.9	461.9	457.6	457.5
55°	441.4	429.5	421.9	414.7	411.3	408.8	405.9
57.5°	390.3	379.1	371.9	367.5	360.7	358.3	357.4
60°	353.8	344.9	337.9	331.9	329.0	324.2	324.2
62.5°	320.2	311.4	304.7	300.2	295.3	293.5	294.0
65°	271.6	264.5	258.0	253.2	252.1	248.5	249.7
67.5°	226.9	222.1	215.3	212.7	210.4	208.5	207.1
70°	197.1	192.3	188.8	185.2	183.4	183.4	183.4
72.5°	171.9	166.3	164.2	159.6	160.7	158.8	156.9
75°	133.1	129.6	127.8	126.0	123.1	123.1	123.1
77.5°	98.0	96.9	94.8	92.9	92.2	91.6	91.8
80°	75.7	75.2	73.9	73.9	72.8	72.2	71.0
82.5°	58.2	56.7	56.0	55.5	55.3	55.1	54.9
85°	33.2	31.9	31.9	32.5	31.4	31.4	31.9
87.5°	18.9	18.8	18.3	18.4	18.8	18.4	18.5
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)