

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: P332689-930

Luminaire Tested: **SA4XXDIP-C1195D810U930-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332689-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C1195D810U930-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6624.5 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct

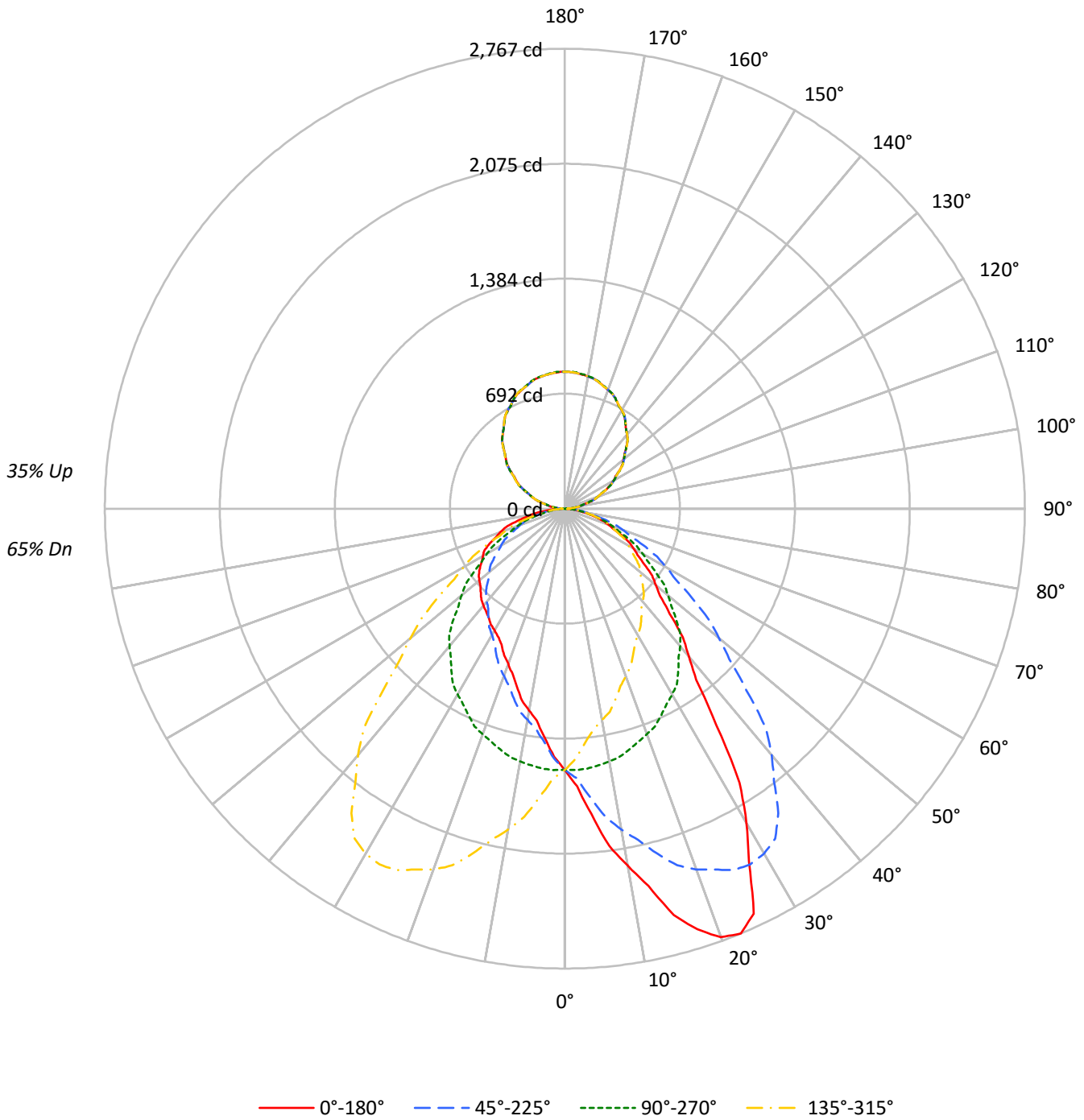
Input Watts (W): 60.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	65
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	71	67	64	63	60	57	55	53	51	47
3	85	75	68	62	80	71	65	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	53	73	63	56	51	57	51	46	50	46	42	44	41	38	35
5	72	60	52	46	67	57	49	44	51	45	40	45	40	37	40	36	33	30
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	37	33	29	27
7	61	49	41	35	58	46	39	34	42	36	31	37	32	29	33	29	26	24
8	57	44	37	31	54	42	35	30	38	32	28	34	29	26	31	27	24	21
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	28	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	18

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

	0°	90°	180°	270°
0°	12686	12686	12686	12686
5°	14939	12719	11225	12719
10°	17887	12663	10107	12663
15°	21163	12534	9281	12534
20°	23566	12404	8546	12404
25°	23947	12211	8036	12211
30°	20377	12027	7876	12027
35°	15666	11727	7877	11727
40°	12211	11374	8026	11374
45°	10182	10843	8161	10843
50°	8961	10194	8437	10194
55°	8210	9419	8777	9419
60°	7694	8724	9185	8724
65°	7163	7947	9524	7947
70°	6545	7176	9741	7176
75°	5845	6313	9623	6313
80°	4900	5174	9321	5174
85°	3622	3742	8929	3742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.1	2.3
10°-20°	471.9	7.1
20°-30°	748.2	11.3
30°-40°	832.7	12.6
40°-50°	758.0	11.4
50°-60°	619.4	9.4
60°-70°	442.2	6.7
70°-80°	243.5	3.7
80°-90°	68.9	1.0
90°-100°	54.4	0.8
100°-110°	161.0	2.4
110°-120°	273.3	4.1
120°-130°	360.4	5.4
130°-140°	404.7	6.1
140°-150°	397.7	6.0
150°-160°	334.5	5.0
160°-170°	222.6	3.4
170°-180°	77.9	1.2
0°-30°	1373.2	20.7
0°-40°	2205.9	33.3
0°-60°	3583.3	54.1
0°-90°	4337.9	65.5
90°-120°	488.7	7.4
90°-150°	1651.5	24.9
90°-180°	2287.0	34.5
0°-180°	6624.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1571	1571	1571	1571	1571	
5°	1844	1570	1385	1570	1844	187
15°	2532	1500	1110	1500	2532	715
25°	2688	1371	902	1371	2688	1185
35°	1590	1190	799	1190	1590	1009
45°	892	950	715	950	892	703
55°	583	669	624	669	583	527
65°	375	416	499	416	375	371
75°	187	202	308	202	187	199
85°	39	40	96	40	39	48
90°	19	2	19	2	19	11
95°	50	38	50	38	50	52
105°	156	148	156	148	156	164
115°	275	278	275	278	275	272
125°	402	405	402	405	402	358
135°	523	522	523	522	523	404
145°	635	634	635	634	635	397
155°	726	727	726	727	726	334
165°	789	791	789	791	789	222
175°	819	823	819	823	819	78
180°	824	824	824	824	824	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1672.4	1671.9	1666.7	1665.7	1662.0	1657.3	1656.3	1648.0	1631.3	1623.4	1621.4
5°	1843.5	1856.5	1839.6	1836.3	1834.3	1812.9	1801.8	1788.8	1758.8	1741.3	1727.6
7.5°	2047.6	2049.2	2041.8	2035.8	2019.3	2000.5	1972.4	1942.5	1906.7	1869.6	1841.7
10°	2182.0	2187.2	2178.7	2177.4	2144.2	2123.4	2081.7	2046.6	2006.2	1961.3	1920.3
12.5°	2323.6	2316.3	2312.0	2284.1	2278.0	2240.0	2191.6	2155.4	2093.2	2041.5	1987.0
15°	2532.2	2517.9	2508.8	2470.4	2451.4	2398.7	2347.3	2307.6	2226.3	2148.8	2090.2
17.5°	2654.5	2668.9	2647.8	2632.0	2583.2	2546.3	2493.7	2410.4	2346.7	2250.5	2176.5
20°	2743.1	2744.4	2732.6	2716.4	2678.0	2631.1	2573.8	2482.7	2406.5	2310.9	2209.3
22.5°	2767.0	2767.3	2762.3	2747.2	2718.0	2680.1	2622.2	2546.3	2454.0	2349.9	2248.4
25°	2688.4	2685.8	2691.6	2708.6	2697.5	2685.8	2652.6	2596.0	2510.1	2400.0	2290.7
27.5°	2396.2	2414.2	2447.3	2488.9	2529.1	2559.6	2568.3	2556.6	2503.4	2413.0	2298.3
30°	2185.9	2208.0	2232.8	2274.4	2355.2	2401.3	2452.1	2490.5	2469.1	2396.8	2290.0
32.5°	1954.7	1960.1	1996.8	2044.2	2118.1	2207.1	2287.6	2365.5	2391.4	2353.5	2264.5
35°	1589.6	1598.7	1638.4	1685.3	1775.8	1884.5	2005.6	2113.6	2202.8	2238.6	2193.0
37.5°	1297.2	1323.4	1351.4	1401.7	1481.4	1579.3	1705.1	1844.9	1977.8	2066.9	2081.9
40°	1158.7	1174.9	1195.1	1233.5	1301.2	1397.6	1505.6	1665.7	1807.0	1934.6	1976.3
42.5°	1049.3	1058.8	1071.2	1106.0	1157.5	1253.4	1352.0	1492.9	1634.7	1787.2	1857.0
45°	891.8	901.6	922.3	942.6	981.6	1048.0	1139.8	1255.6	1398.2	1545.3	1674.2
47.5°	778.0	784.2	796.6	818.2	851.4	895.2	969.9	1066.7	1198.8	1341.6	1479.0
50°	713.5	718.6	728.4	748.0	773.3	812.4	873.6	964.0	1067.6	1211.4	1346.1
52.5°	662.4	664.5	671.6	684.9	705.1	737.9	788.1	863.0	959.2	1087.4	1221.7
55°	583.3	585.9	592.4	602.1	619.7	640.5	678.9	734.9	818.9	930.2	1046.7
57.5°	518.1	520.0	525.5	529.2	543.6	560.6	590.1	630.1	693.7	788.1	892.2
60°	476.5	475.2	481.7	484.9	494.7	509.1	531.8	570.2	625.6	701.7	797.4
62.5°	435.9	434.1	439.5	443.8	449.4	461.6	480.3	510.4	555.2	624.1	706.8
65°	375.0	372.3	375.6	380.8	386.0	392.5	406.2	432.8	468.7	518.1	581.3
67.5°	313.7	316.5	317.0	319.6	322.6	331.5	340.8	359.7	385.0	424.5	478.1
70°	277.3	277.9	280.5	280.5	282.5	290.3	298.2	309.2	333.9	370.4	414.0
72.5°	240.8	243.6	242.6	244.6	246.1	251.3	257.0	267.5	288.6	315.7	352.5
75°	187.4	189.4	189.4	190.0	192.0	194.0	198.5	206.4	221.4	241.5	266.8
77.5°	136.7	137.0	137.9	140.2	140.2	143.3	146.8	153.0	160.4	174.2	189.7
80°	105.4	106.7	106.1	107.4	107.4	110.0	111.3	119.1	122.4	131.5	143.8
82.5°	77.4	78.6	78.5	80.3	81.4	81.9	83.7	86.8	90.1	98.2	103.2
85°	39.1	40.4	39.1	40.4	42.3	43.0	44.9	45.6	48.2	50.1	54.7
87.5°	15.2	16.8	16.7	17.2	18.2	18.6	18.9	18.3	20.1	20.5	22.3
90°	19.2	18.8	18.6	18.3	18.0	17.4	16.6	15.7	14.8	14.0	12.9
92.5°	28.3	28.1	28.0	27.8	27.6	27.3	26.7	26.3	25.8	25.3	24.5
95°	50.4	50.4	50.4	50.4	50.4	50.1	49.7	49.3	48.8	48.4	47.5
97.5°	78.9	78.9	78.9	78.9	78.9	78.7	78.1	77.6	77.1	76.6	75.4
100°	98.8	98.8	98.8	98.8	98.8	98.7	98.4	98.1	97.8	97.5	96.2
102.5°	121.2	121.2	121.0	120.9	120.7	120.5	120.1	119.8	119.4	119.0	117.8
105°	155.6	155.1	154.7	154.3	153.8	153.4	153.0	152.5	152.1	151.7	151.2
107.5°	188.9	189.0	189.0	189.0	189.1	188.8	188.4	188.1	187.7	187.3	187.2
110°	212.9	212.5	212.1	211.7	211.2	211.1	211.4	211.7	212.0	212.2	212.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	237.3	237.3	237.2	237.1	237.0	237.0	237.1	237.1	237.2	237.3	237.5
115°	275.3	275.5	275.7	275.8	275.9	276.1	276.2	276.3	276.5	276.6	276.9
117.5°	311.5	311.9	312.1	312.4	312.7	313.1	313.6	314.1	314.5	315.0	315.2
120°	339.1	338.8	338.5	338.3	337.9	338.2	338.8	339.6	340.3	341.0	341.4
122.5°	362.1	362.6	363.1	363.5	364.1	364.6	365.1	365.5	366.0	366.5	366.7
125°	401.5	401.9	402.1	402.4	402.7	403.0	403.2	403.6	403.8	404.1	404.2
127.5°	438.1	438.4	438.6	438.8	439.0	439.3	439.6	439.9	440.2	440.4	440.7
130°	462.1	462.7	463.3	463.8	464.4	464.8	465.0	465.4	465.6	465.9	465.9
132.5°	487.6	487.8	488.0	488.3	488.5	488.8	489.0	489.3	489.6	489.9	490.0
135°	522.7	523.1	523.5	523.9	524.3	524.7	525.0	525.3	525.5	525.9	525.9
137.5°	559.5	559.4	559.3	559.2	559.1	559.3	559.7	560.0	560.4	560.8	560.5
140°	582.0	582.0	582.2	582.4	582.5	582.6	582.8	582.9	583.1	583.2	583.2
142.5°	604.4	604.4	604.5	604.5	604.5	604.5	604.5	604.5	604.6	604.6	604.7
145°	634.9	635.3	635.7	636.1	636.5	636.8	637.0	637.1	637.2	637.4	637.2
147.5°	665.7	665.9	665.9	666.1	666.3	666.3	666.5	666.6	666.8	666.8	666.9
150°	684.5	684.7	684.9	685.0	685.1	685.2	685.2	685.2	685.2	685.2	685.2
152.5°	701.9	702.3	702.6	703.0	703.4	703.4	703.0	702.7	702.4	702.1	701.9
155°	726.0	726.5	727.1	727.7	728.2	728.2	727.7	727.1	726.5	726.0	726.1
157.5°	747.5	748.0	748.5	749.0	749.4	749.5	749.1	748.6	748.2	747.8	747.8
160°	759.8	760.5	761.2	761.9	762.6	762.7	762.3	761.9	761.5	761.1	761.2
162.5°	772.5	773.2	774.0	774.6	775.3	775.3	774.5	773.8	773.1	772.3	772.4
165°	789.1	789.6	790.2	790.8	791.3	791.2	790.4	789.5	788.6	787.8	788.1
167.5°	801.0	801.8	802.7	803.6	804.5	804.5	803.6	802.7	801.9	801.0	801.0
170°	807.6	808.5	809.6	810.6	811.5	811.6	810.7	809.9	809.0	808.2	808.0
172.5°	813.2	814.2	815.1	816.2	817.2	817.2	816.2	815.2	814.2	813.3	813.3
175°	819.0	820.0	821.0	822.0	823.0	823.0	822.0	821.0	820.0	819.0	819.2
177.5°	822.1	823.0	823.9	824.8	825.7	825.8	825.0	824.2	823.4	822.6	822.6
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1621.9	1614.6	1609.4	1605.2	1593.7	1587.0	1581.8	1574.5	1566.2	1557.3	1546.4
5°	1713.9	1691.8	1675.5	1650.8	1627.3	1607.9	1587.6	1569.5	1547.3	1523.2	1505.6
7.5°	1810.7	1777.8	1735.5	1699.0	1657.8	1622.0	1590.0	1557.2	1523.1	1490.0	1459.7
10°	1872.1	1829.8	1782.9	1727.6	1675.5	1629.3	1586.3	1544.7	1504.3	1464.0	1429.5
12.5°	1938.3	1885.5	1816.2	1751.6	1693.2	1631.4	1579.6	1528.5	1479.8	1437.5	1397.2
15°	2027.1	1950.8	1870.8	1784.2	1707.4	1635.2	1564.2	1499.7	1445.1	1389.1	1350.1
17.5°	2081.6	1987.4	1895.8	1805.3	1712.4	1621.2	1544.7	1470.4	1401.9	1346.3	1297.1
20°	2117.5	2023.8	1909.8	1819.4	1708.7	1615.0	1526.5	1443.8	1372.2	1313.0	1262.2
22.5°	2148.8	2040.4	1926.6	1807.4	1697.3	1597.8	1501.0	1417.7	1344.6	1282.2	1233.5
25°	2165.7	2041.3	1917.7	1799.2	1674.2	1556.4	1468.5	1370.9	1292.7	1227.0	1174.9
27.5°	2167.6	2034.6	1894.7	1763.0	1634.0	1524.3	1413.3	1326.1	1245.0	1175.5	1125.5
30°	2161.8	2023.2	1872.7	1730.2	1600.7	1481.6	1385.2	1290.2	1207.5	1138.5	1086.4
32.5°	2143.6	1999.2	1844.6	1693.8	1559.5	1443.0	1343.5	1253.2	1172.6	1104.6	1049.9
35°	2090.8	1948.2	1783.5	1626.7	1489.4	1371.6	1281.7	1189.9	1109.2	1044.8	992.1
37.5°	2008.4	1879.5	1712.1	1549.8	1414.9	1296.6	1207.5	1124.5	1051.8	986.3	932.3
40°	1936.6	1823.3	1655.4	1497.1	1351.4	1238.8	1155.4	1079.3	1007.0	945.2	893.7
42.5°	1853.7	1755.1	1600.2	1432.6	1292.0	1178.8	1097.6	1029.2	961.2	904.0	852.6
45°	1706.1	1641.0	1495.3	1340.3	1193.8	1087.0	1009.6	949.7	892.4	836.5	793.5
47.5°	1536.4	1504.1	1381.3	1234.2	1095.1	989.9	922.8	867.5	817.2	769.8	731.9
50°	1422.3	1406.7	1300.6	1158.7	1025.9	926.9	859.2	811.7	768.7	727.1	691.3
52.5°	1309.9	1309.3	1213.7	1083.7	960.8	865.5	798.3	753.9	716.7	682.8	650.7
55°	1137.8	1156.1	1081.2	965.3	855.3	769.4	708.9	669.2	643.1	615.1	591.1
57.5°	979.9	1010.2	948.4	846.4	754.6	675.4	622.7	592.9	565.2	548.2	530.7
60°	876.9	905.5	857.3	771.4	684.8	617.1	567.0	540.3	516.2	504.5	492.1
62.5°	785.1	810.7	775.0	695.4	620.2	555.1	512.8	487.1	470.9	458.1	450.0
65°	654.2	675.7	645.1	587.2	522.7	470.7	436.1	416.0	400.3	395.1	386.0
67.5°	528.8	548.4	531.8	482.6	430.9	391.5	364.5	345.1	335.9	331.3	324.8
70°	454.4	473.9	456.3	413.4	373.7	340.5	315.0	304.0	294.2	292.3	283.2
72.5°	391.3	404.6	387.0	353.4	319.5	291.5	271.8	260.2	255.2	251.7	246.7
75°	293.6	305.3	293.6	267.5	243.4	224.0	207.0	202.4	196.6	194.6	191.4
77.5°	207.8	217.9	209.0	192.7	174.7	159.6	150.5	144.6	143.3	140.0	141.5
80°	158.8	165.3	156.9	145.8	131.5	121.1	114.5	111.3	107.4	106.1	108.7
82.5°	114.1	116.9	112.6	105.2	94.5	87.7	83.3	79.6	78.8	79.0	79.0
85°	59.3	58.6	58.0	51.4	48.2	43.6	41.0	40.4	39.7	41.0	42.3
87.5°	22.2	22.4	21.7	19.3	17.4	15.6	14.8	13.9	14.8	15.6	16.4
90°	11.7	10.6	9.5	8.2	6.6	5.1	3.5	1.9	3.5	5.1	6.6
92.5°	23.6	22.8	22.1	20.8	19.0	17.2	15.4	13.6	15.4	17.2	19.0
95°	46.5	45.5	44.5	43.4	42.1	40.8	39.5	38.2	39.5	40.8	42.1
97.5°	74.3	73.1	72.0	70.8	69.9	68.8	67.8	66.8	67.8	68.8	69.9
100°	95.0	93.7	92.5	91.5	90.9	90.3	89.8	89.3	89.8	90.3	90.9
102.5°	116.6	115.4	114.3	113.6	113.4	113.2	112.9	112.7	112.9	113.2	113.4
105°	150.6	150.0	149.4	149.1	149.0	148.8	148.6	148.5	148.6	148.8	149.0
107.5°	187.1	187.0	186.9	186.8	186.6	186.5	186.3	186.1	186.3	186.5	186.6
110°	212.5	212.7	212.8	212.7	212.5	212.1	211.9	211.7	211.9	212.1	212.5





TEST NUMBER: P332689-930  
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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	237.7	238.0	238.2	238.4	238.3	238.2	238.1	238.1	238.1	238.2	238.3
115°	277.2	277.4	277.8	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9
117.5°	315.4	315.6	315.8	315.8	315.7	315.6	315.5	315.4	315.5	315.6	315.7
120°	341.9	342.3	342.7	342.7	342.1	341.5	341.0	340.4	341.0	341.5	342.1
122.5°	366.9	367.1	367.3	367.3	367.0	366.8	366.6	366.4	366.6	366.8	367.0
125°	404.4	404.6	404.6	404.7	404.7	404.7	404.7	404.7	404.7	404.7	404.7
127.5°	440.9	441.1	441.3	441.2	440.8	440.4	439.9	439.5	439.9	440.4	440.8
130°	465.9	465.9	465.9	465.7	465.3	464.9	464.5	464.0	464.5	464.9	465.3
132.5°	490.2	490.2	490.3	490.2	489.9	489.7	489.3	489.0	489.3	489.7	489.9
135°	525.9	525.9	525.9	525.5	524.6	523.7	522.9	522.0	522.9	523.7	524.6
137.5°	560.4	560.1	559.9	559.5	559.1	558.7	558.4	558.0	558.4	558.7	559.1
140°	583.2	583.2	583.2	583.1	582.8	582.5	582.2	582.0	582.2	582.5	582.8
142.5°	604.9	605.0	605.1	605.0	604.7	604.5	604.1	603.9	604.1	604.5	604.7
145°	637.1	637.0	636.8	636.5	635.9	635.4	634.8	634.2	634.8	635.4	635.9
147.5°	667.1	667.2	667.3	667.0	666.3	665.6	665.0	664.3	665.0	665.6	666.3
150°	685.2	685.2	685.2	684.9	684.4	683.8	683.2	682.7	683.2	683.8	684.4
152.5°	701.8	701.6	701.6	701.3	701.0	700.7	700.3	700.0	700.3	700.7	701.0
155°	726.3	726.4	726.5	726.6	726.6	726.6	726.6	726.6	726.6	726.6	726.6
157.5°	747.9	747.9	747.9	748.0	748.3	748.5	748.8	749.1	748.8	748.5	748.3
160°	761.3	761.5	761.6	761.7	761.9	762.1	762.1	762.3	762.1	762.1	761.9
162.5°	772.6	772.7	772.8	773.1	773.5	773.8	774.2	774.5	774.2	773.8	773.5
165°	788.4	788.6	789.0	789.3	789.7	790.2	790.6	791.0	790.6	790.2	789.7
167.5°	801.0	801.0	801.0	801.3	801.8	802.4	803.0	803.6	803.0	802.4	801.8
170°	808.0	807.8	807.6	808.0	808.6	809.3	810.1	810.7	810.1	809.3	808.6
172.5°	813.3	813.3	813.2	813.5	814.1	814.6	815.3	815.9	815.3	814.6	814.1
175°	819.3	819.5	819.6	820.0	820.8	821.4	822.1	822.9	822.1	821.4	820.8
177.5°	822.6	822.6	822.6	822.9	823.5	824.0	824.6	825.2	824.6	824.0	823.5
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332689-930

CATALOG NUMBER: SA4XXDIP-C1195D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1541.2	1536.5	1529.7	1520.4	1512.5	1504.2	1502.1	1499.0	1505.2	1500.1	1498.4
5°	1490.7	1477.0	1459.4	1439.2	1427.5	1410.6	1407.4	1400.8	1394.3	1393.7	1387.2
7.5°	1437.1	1417.1	1394.1	1373.5	1354.5	1336.0	1323.9	1321.3	1311.7	1306.0	1299.5
10°	1402.8	1378.0	1351.4	1331.9	1309.7	1290.2	1276.5	1268.7	1262.2	1255.0	1248.5
12.5°	1362.2	1335.9	1313.9	1292.7	1266.5	1251.6	1229.1	1215.6	1214.3	1214.4	1197.5
15°	1314.9	1288.9	1255.0	1225.1	1210.7	1182.1	1169.7	1154.1	1144.4	1134.6	1126.8
17.5°	1260.9	1228.5	1202.0	1167.7	1140.4	1117.5	1101.3	1091.9	1077.2	1063.4	1053.4
20°	1227.0	1192.5	1164.6	1128.0	1098.1	1070.2	1056.5	1043.5	1032.4	1020.7	1009.6
22.5°	1192.6	1156.6	1122.3	1087.0	1059.1	1029.6	1016.4	998.7	988.1	981.6	970.5
25°	1138.5	1099.4	1060.4	1026.5	997.9	971.8	954.3	940.6	928.9	923.7	916.6
27.5°	1079.6	1040.9	1003.1	964.7	932.1	913.3	899.2	888.9	882.2	875.2	872.0
30°	1042.2	1001.8	961.5	925.6	895.7	876.9	863.8	856.6	851.4	848.2	844.9
32.5°	1004.1	964.3	921.9	889.2	862.3	845.5	835.7	828.5	825.9	824.8	823.6
35°	943.2	902.9	863.8	834.5	809.1	802.6	794.2	790.3	789.0	793.5	795.5
37.5°	884.3	846.8	810.8	782.4	765.8	756.3	753.4	753.5	758.2	762.2	767.0
40°	846.2	809.8	775.9	751.2	735.6	729.7	728.4	731.6	736.9	741.4	746.7
42.5°	809.3	773.3	742.6	719.4	708.5	703.1	703.9	707.2	714.4	720.1	727.9
45°	751.9	721.9	691.9	673.1	664.0	665.3	665.3	671.2	678.2	686.7	695.2
47.5°	697.8	667.6	643.0	627.1	622.4	621.3	624.9	632.6	642.9	653.3	665.1
50°	661.4	632.8	611.2	596.9	591.7	593.7	598.8	606.0	618.4	631.4	643.8
52.5°	624.4	598.3	578.5	565.2	561.5	565.0	570.2	581.6	592.4	606.4	621.4
55°	567.0	544.9	529.2	519.4	518.1	520.1	525.9	538.3	553.9	571.5	585.9
57.5°	509.8	491.3	477.0	470.3	470.9	472.7	482.3	497.1	513.7	532.5	551.0
60°	471.2	454.4	442.6	437.4	438.1	442.0	453.7	467.4	488.2	506.5	525.9
62.5°	434.8	420.0	408.8	404.1	403.2	411.8	423.0	437.2	458.0	478.3	499.4
65°	376.3	364.5	355.4	352.8	354.7	361.3	375.6	394.4	412.1	433.5	455.7
67.5°	318.9	309.3	303.0	304.3	306.6	316.3	328.2	344.5	364.4	386.7	408.5
70°	282.5	273.4	268.2	268.8	272.7	284.5	294.9	311.1	332.6	355.4	373.7
72.5°	245.0	239.0	234.3	237.1	241.0	249.1	262.0	278.3	297.3	318.5	337.7
75°	188.1	188.1	185.5	187.4	193.3	201.1	210.9	227.8	246.7	263.7	279.2
77.5°	139.6	138.1	139.8	142.2	145.5	154.8	166.0	178.1	192.3	209.2	222.1
80°	106.7	107.4	110.6	114.5	115.9	123.0	134.8	145.8	156.9	171.2	183.6
82.5°	80.2	80.9	82.5	87.5	88.8	96.4	104.0	115.1	125.1	134.8	145.0
85°	43.6	43.6	46.9	48.8	52.1	57.3	61.8	68.3	77.5	84.0	93.8
87.5°	18.3	18.6	20.9	22.2	23.9	26.7	28.0	33.8	36.1	38.9	43.7
90°	8.2	9.5	10.6	11.7	12.9	14.0	14.8	15.7	16.6	17.4	18.0
92.5°	20.8	22.1	22.8	23.6	24.5	25.3	25.8	26.3	26.7	27.3	27.6
95°	43.4	44.5	45.5	46.5	47.5	48.4	48.8	49.3	49.7	50.1	50.4
97.5°	70.8	72.0	73.1	74.3	75.4	76.6	77.1	77.6	78.1	78.7	78.9
100°	91.5	92.5	93.7	95.0	96.2	97.5	97.8	98.1	98.4	98.7	98.8
102.5°	113.6	114.3	115.4	116.6	117.8	119.0	119.4	119.8	120.1	120.5	120.7
105°	149.1	149.4	150.0	150.6	151.2	151.7	152.1	152.5	153.0	153.4	153.8
107.5°	186.8	186.9	187.0	187.1	187.2	187.3	187.7	188.1	188.4	188.8	189.1
110°	212.7	212.8	212.7	212.5	212.4	212.2	212.0	211.7	211.4	211.1	211.2



TEST NUMBER: P332689-930

CATALOG NUMBER: SA4XXDIP-C1195D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	238.4	238.2	238.0	237.7	237.5	237.3	237.2	237.1	237.1	237.0	237.0
115°	277.9	277.8	277.4	277.2	276.9	276.6	276.5	276.3	276.2	276.1	275.9
117.5°	315.8	315.8	315.6	315.4	315.2	315.0	314.5	314.1	313.6	313.1	312.7
120°	342.7	342.7	342.3	341.9	341.4	341.0	340.3	339.6	338.8	338.2	337.9
122.5°	367.3	367.3	367.1	366.9	366.7	366.5	366.0	365.5	365.1	364.6	364.1
125°	404.7	404.6	404.6	404.4	404.2	404.1	403.8	403.6	403.2	403.0	402.7
127.5°	441.2	441.3	441.1	440.9	440.7	440.4	440.2	439.9	439.6	439.3	439.0
130°	465.7	465.9	465.9	465.9	465.9	465.9	465.6	465.4	465.0	464.8	464.4
132.5°	490.2	490.3	490.2	490.2	490.0	489.9	489.6	489.3	489.0	488.8	488.5
135°	525.5	525.9	525.9	525.9	525.9	525.9	525.5	525.3	525.0	524.7	524.3
137.5°	559.5	559.9	560.1	560.4	560.5	560.8	560.4	560.0	559.7	559.3	559.1
140°	583.1	583.2	583.2	583.2	583.2	583.2	583.1	582.9	582.8	582.6	582.5
142.5°	605.0	605.1	605.0	604.9	604.7	604.6	604.6	604.5	604.5	604.5	604.5
145°	636.5	636.8	637.0	637.1	637.2	637.4	637.2	637.1	637.0	636.8	636.5
147.5°	667.0	667.3	667.2	667.1	666.9	666.8	666.8	666.6	666.5	666.3	666.3
150°	684.9	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.1
152.5°	701.3	701.6	701.6	701.8	701.9	702.1	702.4	702.7	703.0	703.4	703.4
155°	726.6	726.5	726.4	726.3	726.1	726.0	726.5	727.1	727.7	728.2	728.2
157.5°	748.0	747.9	747.9	747.9	747.8	747.8	748.2	748.6	749.1	749.5	749.4
160°	761.7	761.6	761.5	761.3	761.2	761.1	761.5	761.9	762.3	762.7	762.6
162.5°	773.1	772.8	772.7	772.6	772.4	772.3	773.1	773.8	774.5	775.3	775.3
165°	789.3	789.0	788.6	788.4	788.1	787.8	788.6	789.5	790.4	791.2	791.3
167.5°	801.3	801.0	801.0	801.0	801.0	801.0	801.9	802.7	803.6	804.5	804.5
170°	808.0	807.6	807.8	808.0	808.0	808.2	809.0	809.9	810.7	811.6	811.5
172.5°	813.5	813.2	813.3	813.3	813.3	813.3	814.2	815.2	816.2	817.2	817.2
175°	820.0	819.6	819.5	819.3	819.2	819.0	820.0	821.0	822.0	823.0	823.0
177.5°	822.9	822.6	822.6	822.6	822.6	822.6	823.4	824.2	825.0	825.8	825.7
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332689-930  
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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1497.5	1496.4	1492.7	1492.2	1492.7	1496.4	1497.5	1498.4	1500.1	1505.2	1499.0
5°	1383.2	1380.0	1378.0	1385.2	1378.0	1380.0	1383.2	1387.2	1393.7	1394.3	1400.8
7.5°	1297.2	1294.6	1288.9	1287.0	1288.9	1294.6	1297.2	1299.5	1306.0	1311.7	1321.3
10°	1242.0	1239.4	1234.2	1232.9	1234.2	1239.4	1242.0	1248.5	1255.0	1262.2	1268.7
12.5°	1188.9	1183.7	1182.7	1184.0	1182.7	1183.7	1188.9	1197.5	1214.4	1214.3	1215.6
15°	1118.3	1115.7	1108.6	1110.5	1108.6	1115.7	1118.3	1126.8	1134.6	1144.4	1154.1
17.5°	1048.8	1045.7	1037.0	1044.6	1037.0	1045.7	1048.8	1053.4	1063.4	1077.2	1091.9
20°	1005.0	999.9	995.3	994.7	995.3	999.9	1005.0	1009.6	1020.7	1032.4	1043.5
22.5°	963.4	958.7	958.3	954.1	958.3	958.7	963.4	970.5	981.6	988.1	998.7
25°	911.3	906.8	905.5	902.2	905.5	906.8	911.3	916.6	923.7	928.9	940.6
27.5°	871.4	869.1	866.8	867.8	866.8	869.1	871.4	872.0	875.2	882.2	888.9
30°	846.9	846.2	844.9	844.9	844.9	846.2	846.9	844.9	848.2	851.4	856.6
32.5°	826.6	826.5	827.2	827.2	827.2	826.5	826.6	823.6	824.8	825.9	828.5
35°	798.1	800.0	801.3	799.3	801.3	800.0	798.1	795.5	793.5	789.0	790.3
37.5°	772.3	774.2	776.1	778.3	776.1	774.2	772.3	767.0	762.2	758.2	753.5
40°	752.5	757.1	758.3	761.6	758.3	757.1	752.5	746.7	741.4	736.9	731.6
42.5°	733.8	738.8	742.2	742.8	742.2	738.8	733.8	727.9	720.1	714.4	707.2
45°	705.0	710.2	714.8	714.8	714.8	710.2	705.0	695.2	686.7	678.2	671.2
47.5°	675.1	682.7	687.3	688.4	687.3	682.7	675.1	665.1	653.3	642.9	632.6
50°	654.8	664.0	668.5	671.8	668.5	664.0	654.8	643.8	631.4	618.4	606.0
52.5°	635.0	644.2	650.3	652.0	650.3	644.2	635.0	621.4	606.4	592.4	581.6
55°	600.8	613.8	621.0	623.6	621.0	613.8	600.8	585.9	571.5	553.9	538.3
57.5°	568.5	580.5	588.8	590.8	588.8	580.5	568.5	551.0	532.5	513.7	497.1
60°	543.6	556.5	567.0	568.9	567.0	556.5	543.6	525.9	506.5	488.2	467.4
62.5°	518.0	531.6	541.0	546.0	541.0	531.6	518.0	499.4	478.3	458.0	437.2
65°	473.9	487.5	496.7	498.6	496.7	487.5	473.9	455.7	433.5	412.1	394.4
67.5°	425.7	439.4	445.4	449.1	445.4	439.4	425.7	408.5	386.7	364.4	344.5
70°	391.8	402.9	409.4	412.7	409.4	402.9	391.8	373.7	355.4	332.6	311.1
72.5°	353.4	364.9	372.5	373.1	372.5	364.9	353.4	337.7	318.5	297.3	278.3
75°	294.2	304.7	308.5	308.5	308.5	304.7	294.2	279.2	263.7	246.7	227.8
77.5°	232.9	238.2	243.2	244.3	243.2	238.2	232.9	222.1	209.2	192.3	178.1
80°	193.3	196.6	200.5	200.5	200.5	196.6	193.3	183.6	171.2	156.9	145.8
82.5°	152.7	155.5	159.4	158.8	159.4	155.5	152.7	145.0	134.8	125.1	115.1
85°	92.5	98.3	97.7	96.4	97.7	98.3	92.5	93.8	84.0	77.5	68.3
87.5°	45.3	45.9	47.5	48.6	47.5	45.9	45.3	43.7	38.9	36.1	33.8
90°	18.3	18.6	18.8	19.2	18.8	18.6	18.3	18.0	17.4	16.6	15.7
92.5°	27.8	28.0	28.1	28.3	28.1	28.0	27.8	27.6	27.3	26.7	26.3
95°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.1	49.7	49.3
97.5°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.7	78.1	77.6
100°	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.7	98.4	98.1
102.5°	120.9	121.0	121.2	121.2	121.2	121.0	120.9	120.7	120.5	120.1	119.8
105°	154.3	154.7	155.1	155.6	155.1	154.7	154.3	153.8	153.4	153.0	152.5
107.5°	189.0	189.0	189.0	188.9	189.0	189.0	189.0	189.1	188.8	188.4	188.1
110°	211.7	212.1	212.5	212.9	212.5	212.1	211.7	211.2	211.1	211.4	211.7



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CATALOG NUMBER: SA4XXDIP-C1195D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	237.1	237.2	237.3	237.3	237.3	237.2	237.1	237.0	237.0	237.1	237.1
115°	275.8	275.7	275.5	275.3	275.5	275.7	275.8	275.9	276.1	276.2	276.3
117.5°	312.4	312.1	311.9	311.5	311.9	312.1	312.4	312.7	313.1	313.6	314.1
120°	338.3	338.5	338.8	339.1	338.8	338.5	338.3	337.9	338.2	338.8	339.6
122.5°	363.5	363.1	362.6	362.1	362.6	363.1	363.5	364.1	364.6	365.1	365.5
125°	402.4	402.1	401.9	401.5	401.9	402.1	402.4	402.7	403.0	403.2	403.6
127.5°	438.8	438.6	438.4	438.1	438.4	438.6	438.8	439.0	439.3	439.6	439.9
130°	463.8	463.3	462.7	462.1	462.7	463.3	463.8	464.4	464.8	465.0	465.4
132.5°	488.3	488.0	487.8	487.6	487.8	488.0	488.3	488.5	488.8	489.0	489.3
135°	523.9	523.5	523.1	522.7	523.1	523.5	523.9	524.3	524.7	525.0	525.3
137.5°	559.2	559.3	559.4	559.5	559.4	559.3	559.2	559.1	559.3	559.7	560.0
140°	582.4	582.2	582.0	582.0	582.0	582.2	582.4	582.5	582.6	582.8	582.9
142.5°	604.5	604.5	604.4	604.4	604.4	604.5	604.5	604.5	604.5	604.5	604.5
145°	636.1	635.7	635.3	634.9	635.3	635.7	636.1	636.5	636.8	637.0	637.1
147.5°	666.1	665.9	665.9	665.7	665.9	665.9	666.1	666.3	666.3	666.5	666.6
150°	685.0	684.9	684.7	684.5	684.7	684.9	685.0	685.1	685.2	685.2	685.2
152.5°	703.0	702.6	702.3	701.9	702.3	702.6	703.0	703.4	703.4	703.0	702.7
155°	727.7	727.1	726.5	726.0	726.5	727.1	727.7	728.2	728.2	727.7	727.1
157.5°	749.0	748.5	748.0	747.5	748.0	748.5	749.0	749.4	749.5	749.1	748.6
160°	761.9	761.2	760.5	759.8	760.5	761.2	761.9	762.6	762.7	762.3	761.9
162.5°	774.6	774.0	773.2	772.5	773.2	774.0	774.6	775.3	775.3	774.5	773.8
165°	790.8	790.2	789.6	789.1	789.6	790.2	790.8	791.3	791.2	790.4	789.5
167.5°	803.6	802.7	801.8	801.0	801.8	802.7	803.6	804.5	804.5	803.6	802.7
170°	810.6	809.6	808.5	807.6	808.5	809.6	810.6	811.5	811.6	810.7	809.9
172.5°	816.2	815.1	814.2	813.2	814.2	815.1	816.2	817.2	817.2	816.2	815.2
175°	822.0	821.0	820.0	819.0	820.0	821.0	822.0	823.0	823.0	822.0	821.0
177.5°	824.8	823.9	823.0	822.1	823.0	823.9	824.8	825.7	825.8	825.0	824.2
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332689-930  
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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1502.1	1504.2	1512.5	1520.4	1529.7	1536.5	1541.2	1546.4	1557.3	1566.2	1574.5
5°	1407.4	1410.6	1427.5	1439.2	1459.4	1477.0	1490.7	1505.6	1523.2	1547.3	1569.5
7.5°	1323.9	1336.0	1354.5	1373.5	1394.1	1417.1	1437.1	1459.7	1490.0	1523.1	1557.2
10°	1276.5	1290.2	1309.7	1331.9	1351.4	1378.0	1402.8	1429.5	1464.0	1504.3	1544.7
12.5°	1229.1	1251.6	1266.5	1292.7	1313.9	1335.9	1362.2	1397.2	1437.5	1479.8	1528.5
15°	1169.7	1182.1	1210.7	1225.1	1255.0	1288.9	1314.9	1350.1	1389.1	1445.1	1499.7
17.5°	1101.3	1117.5	1140.4	1167.7	1202.0	1228.5	1260.9	1297.1	1346.3	1401.9	1470.4
20°	1056.5	1070.2	1098.1	1128.0	1164.6	1192.5	1227.0	1262.2	1313.0	1372.2	1443.8
22.5°	1016.4	1029.6	1059.1	1087.0	1122.3	1156.6	1192.6	1233.5	1282.2	1344.6	1417.7
25°	954.3	971.8	997.9	1026.5	1060.4	1099.4	1138.5	1174.9	1227.0	1292.7	1370.9
27.5°	899.2	913.3	932.1	964.7	1003.1	1040.9	1079.6	1125.5	1175.5	1245.0	1326.1
30°	863.8	876.9	895.7	925.6	961.5	1001.8	1042.2	1086.4	1138.5	1207.5	1290.2
32.5°	835.7	845.5	862.3	889.2	921.9	964.3	1004.1	1049.9	1104.6	1172.6	1253.2
35°	794.2	802.6	809.1	834.5	863.8	902.9	943.2	992.1	1044.8	1109.2	1189.9
37.5°	753.4	756.3	765.8	782.4	810.8	846.8	884.3	932.3	986.3	1051.8	1124.5
40°	728.4	729.7	735.6	751.2	775.9	809.8	846.2	893.7	945.2	1007.0	1079.3
42.5°	703.9	703.1	708.5	719.4	742.6	773.3	809.3	852.6	904.0	961.2	1029.2
45°	665.3	665.3	664.0	673.1	691.9	721.9	751.9	793.5	836.5	892.4	949.7
47.5°	624.9	621.3	622.4	627.1	643.0	667.6	697.8	731.9	769.8	817.2	867.5
50°	598.8	593.7	591.7	596.9	611.2	632.8	661.4	691.3	727.1	768.7	811.7
52.5°	570.2	565.0	561.5	565.2	578.5	598.3	624.4	650.7	682.8	716.7	753.9
55°	525.9	520.1	518.1	519.4	529.2	544.9	567.0	591.1	615.1	643.1	669.2
57.5°	482.3	472.7	470.9	470.3	477.0	491.3	509.8	530.7	548.2	565.2	592.9
60°	453.7	442.0	438.1	437.4	442.6	454.4	471.2	492.1	504.5	516.2	540.3
62.5°	423.0	411.8	403.2	404.1	408.8	420.0	434.8	450.0	458.1	470.9	487.1
65°	375.6	361.3	354.7	352.8	355.4	364.5	376.3	386.0	395.1	400.3	416.0
67.5°	328.2	316.3	306.6	304.3	303.0	309.3	318.9	324.8	331.3	335.9	345.1
70°	294.9	284.5	272.7	268.8	268.2	273.4	282.5	283.2	292.3	294.2	304.0
72.5°	262.0	249.1	241.0	237.1	234.3	239.0	245.0	246.7	251.7	255.2	260.2
75°	210.9	201.1	193.3	187.4	185.5	188.1	188.1	191.4	194.6	196.6	202.4
77.5°	166.0	154.8	145.5	142.2	139.8	138.1	139.6	141.5	140.0	143.3	144.6
80°	134.8	123.0	115.9	114.5	110.6	107.4	106.7	108.7	106.1	107.4	111.3
82.5°	104.0	96.4	88.8	87.5	82.5	80.9	80.2	79.0	79.0	78.8	79.6
85°	61.8	57.3	52.1	48.8	46.9	43.6	43.6	42.3	41.0	39.7	40.4
87.5°	28.0	26.7	23.9	22.2	20.9	18.6	18.3	16.4	15.6	14.8	13.9
90°	14.8	14.0	12.9	11.7	10.6	9.5	8.2	6.6	5.1	3.5	1.9
92.5°	25.8	25.3	24.5	23.6	22.8	22.1	20.8	19.0	17.2	15.4	13.6
95°	48.8	48.4	47.5	46.5	45.5	44.5	43.4	42.1	40.8	39.5	38.2
97.5°	77.1	76.6	75.4	74.3	73.1	72.0	70.8	69.9	68.8	67.8	66.8
100°	97.8	97.5	96.2	95.0	93.7	92.5	91.5	90.9	90.3	89.8	89.3
102.5°	119.4	119.0	117.8	116.6	115.4	114.3	113.6	113.4	113.2	112.9	112.7
105°	152.1	151.7	151.2	150.6	150.0	149.4	149.1	149.0	148.8	148.6	148.5
107.5°	187.7	187.3	187.2	187.1	187.0	186.9	186.8	186.6	186.5	186.3	186.1
110°	212.0	212.2	212.4	212.5	212.7	212.8	212.7	212.5	212.1	211.9	211.7



TEST NUMBER: P332689-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	237.2	237.3	237.5	237.7	238.0	238.2	238.4	238.3	238.2	238.1	238.1
115°	276.5	276.6	276.9	277.2	277.4	277.8	277.9	277.9	277.9	277.9	277.9
117.5°	314.5	315.0	315.2	315.4	315.6	315.8	315.8	315.7	315.6	315.5	315.4
120°	340.3	341.0	341.4	341.9	342.3	342.7	342.7	342.1	341.5	341.0	340.4
122.5°	366.0	366.5	366.7	366.9	367.1	367.3	367.3	367.0	366.8	366.6	366.4
125°	403.8	404.1	404.2	404.4	404.6	404.6	404.7	404.7	404.7	404.7	404.7
127.5°	440.2	440.4	440.7	440.9	441.1	441.3	441.2	440.8	440.4	439.9	439.5
130°	465.6	465.9	465.9	465.9	465.9	465.9	465.7	465.3	464.9	464.5	464.0
132.5°	489.6	489.9	490.0	490.2	490.2	490.3	490.2	489.9	489.7	489.3	489.0
135°	525.5	525.9	525.9	525.9	525.9	525.9	525.5	524.6	523.7	522.9	522.0
137.5°	560.4	560.8	560.5	560.4	560.1	559.9	559.5	559.1	558.7	558.4	558.0
140°	583.1	583.2	583.2	583.2	583.2	583.2	583.1	582.8	582.5	582.2	582.0
142.5°	604.6	604.6	604.7	604.9	605.0	605.1	605.0	604.7	604.5	604.1	603.9
145°	637.2	637.4	637.2	637.1	637.0	636.8	636.5	635.9	635.4	634.8	634.2
147.5°	666.8	666.8	666.9	667.1	667.2	667.3	667.0	666.3	665.6	665.0	664.3
150°	685.2	685.2	685.2	685.2	685.2	685.2	684.9	684.4	683.8	683.2	682.7
152.5°	702.4	702.1	701.9	701.8	701.6	701.6	701.3	701.0	700.7	700.3	700.0
155°	726.5	726.0	726.1	726.3	726.4	726.5	726.6	726.6	726.6	726.6	726.6
157.5°	748.2	747.8	747.8	747.9	747.9	747.9	748.0	748.3	748.5	748.8	749.1
160°	761.5	761.1	761.2	761.3	761.5	761.6	761.7	761.9	762.1	762.1	762.3
162.5°	773.1	772.3	772.4	772.6	772.7	772.8	773.1	773.5	773.8	774.2	774.5
165°	788.6	787.8	788.1	788.4	788.6	789.0	789.3	789.7	790.2	790.6	791.0
167.5°	801.9	801.0	801.0	801.0	801.0	801.0	801.3	801.8	802.4	803.0	803.6
170°	809.0	808.2	808.0	808.0	807.8	807.6	808.0	808.6	809.3	810.1	810.7
172.5°	814.2	813.3	813.3	813.3	813.3	813.2	813.5	814.1	814.6	815.3	815.9
175°	820.0	819.0	819.2	819.3	819.5	819.6	820.0	820.8	821.4	822.1	822.9
177.5°	823.4	822.6	822.6	822.6	822.6	822.6	822.9	823.5	824.0	824.6	825.2
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332689-930

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1581.8	1587.0	1593.7	1605.2	1609.4	1614.6	1621.9	1621.4	1623.4	1631.3	1648.0
5°	1587.6	1607.9	1627.3	1650.8	1675.5	1691.8	1713.9	1727.6	1741.3	1758.8	1788.8
7.5°	1590.0	1622.0	1657.8	1699.0	1735.5	1777.8	1810.7	1841.7	1869.6	1906.7	1942.5
10°	1586.3	1629.3	1675.5	1727.6	1782.9	1829.8	1872.1	1920.3	1961.3	2006.2	2046.6
12.5°	1579.6	1631.4	1693.2	1751.6	1816.2	1885.5	1938.3	1987.0	2041.5	2093.2	2155.4
15°	1564.2	1635.2	1707.4	1784.2	1870.8	1950.8	2027.1	2090.2	2148.8	2226.3	2307.6
17.5°	1544.7	1621.2	1712.4	1805.3	1895.8	1987.4	2081.6	2176.5	2250.5	2346.7	2410.4
20°	1526.5	1615.0	1708.7	1819.4	1909.8	2023.8	2117.5	2209.3	2310.9	2406.5	2482.7
22.5°	1501.0	1597.8	1697.3	1807.4	1926.6	2040.4	2148.8	2248.4	2349.9	2454.0	2546.3
25°	1468.5	1556.4	1674.2	1799.2	1917.7	2041.3	2165.7	2290.7	2400.0	2510.1	2596.0
27.5°	1413.3	1524.3	1634.0	1763.0	1894.7	2034.6	2167.6	2298.3	2413.0	2503.4	2556.6
30°	1385.2	1481.6	1600.7	1730.2	1872.7	2023.2	2161.8	2290.0	2396.8	2469.1	2490.5
32.5°	1343.5	1443.0	1559.5	1693.8	1844.6	1999.2	2143.6	2264.5	2353.5	2391.4	2365.5
35°	1281.7	1371.6	1489.4	1626.7	1783.5	1948.2	2090.8	2193.0	2238.6	2202.8	2113.6
37.5°	1207.5	1296.6	1414.9	1549.8	1712.1	1879.5	2008.4	2081.9	2066.9	1977.8	1844.9
40°	1155.4	1238.8	1351.4	1497.1	1655.4	1823.3	1936.6	1976.3	1934.6	1807.0	1665.7
42.5°	1097.6	1178.8	1292.0	1432.6	1600.2	1755.1	1853.7	1857.0	1787.2	1634.7	1492.9
45°	1009.6	1087.0	1193.8	1340.3	1495.3	1641.0	1706.1	1674.2	1545.3	1398.2	1255.6
47.5°	922.8	989.9	1095.1	1234.2	1381.3	1504.1	1536.4	1479.0	1341.6	1198.8	1066.7
50°	859.2	926.9	1025.9	1158.7	1300.6	1406.7	1422.3	1346.1	1211.4	1067.6	964.0
52.5°	798.3	865.5	960.8	1083.7	1213.7	1309.3	1309.9	1221.7	1087.4	959.2	863.0
55°	708.9	769.4	855.3	965.3	1081.2	1156.1	1137.8	1046.7	930.2	818.9	734.9
57.5°	622.7	675.4	754.6	846.4	948.4	1010.2	979.9	892.2	788.1	693.7	630.1
60°	567.0	617.1	684.8	771.4	857.3	905.5	876.9	797.4	701.7	625.6	570.2
62.5°	512.8	555.1	620.2	695.4	775.0	810.7	785.1	706.8	624.1	555.2	510.4
65°	436.1	470.7	522.7	587.2	645.1	675.7	654.2	581.3	518.1	468.7	432.8
67.5°	364.5	391.5	430.9	482.6	531.8	548.4	528.8	478.1	424.5	385.0	359.7
70°	315.0	340.5	373.7	413.4	456.3	473.9	454.4	414.0	370.4	333.9	309.2
72.5°	271.8	291.5	319.5	353.4	387.0	404.6	391.3	352.5	315.7	288.6	267.5
75°	207.0	224.0	243.4	267.5	293.6	305.3	293.6	266.8	241.5	221.4	206.4
77.5°	150.5	159.6	174.7	192.7	209.0	217.9	207.8	189.7	174.2	160.4	153.0
80°	114.5	121.1	131.5	145.8	156.9	165.3	158.8	143.8	131.5	122.4	119.1
82.5°	83.3	87.7	94.5	105.2	112.6	116.9	114.1	103.2	98.2	90.1	86.8
85°	41.0	43.6	48.2	51.4	58.0	58.6	59.3	54.7	50.1	48.2	45.6
87.5°	14.8	15.6	17.4	19.3	21.7	22.4	22.2	22.3	20.5	20.1	18.3
90°	3.5	5.1	6.6	8.2	9.5	10.6	11.7	12.9	14.0	14.8	15.7
92.5°	15.4	17.2	19.0	20.8	22.1	22.8	23.6	24.5	25.3	25.8	26.3
95°	39.5	40.8	42.1	43.4	44.5	45.5	46.5	47.5	48.4	48.8	49.3
97.5°	67.8	68.8	69.9	70.8	72.0	73.1	74.3	75.4	76.6	77.1	77.6
100°	89.8	90.3	90.9	91.5	92.5	93.7	95.0	96.2	97.5	97.8	98.1
102.5°	112.9	113.2	113.4	113.6	114.3	115.4	116.6	117.8	119.0	119.4	119.8
105°	148.6	148.8	149.0	149.1	149.4	150.0	150.6	151.2	151.7	152.1	152.5
107.5°	186.3	186.5	186.6	186.8	186.9	187.0	187.1	187.2	187.3	187.7	188.1
110°	211.9	212.1	212.5	212.7	212.8	212.7	212.5	212.4	212.2	212.0	211.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	238.1	238.2	238.3	238.4	238.2	238.0	237.7	237.5	237.3	237.2	237.1
115°	277.9	277.9	277.9	277.9	277.8	277.4	277.2	276.9	276.6	276.5	276.3
117.5°	315.5	315.6	315.7	315.8	315.8	315.6	315.4	315.2	315.0	314.5	314.1
120°	341.0	341.5	342.1	342.7	342.7	342.3	341.9	341.4	341.0	340.3	339.6
122.5°	366.6	366.8	367.0	367.3	367.3	367.1	366.9	366.7	366.5	366.0	365.5
125°	404.7	404.7	404.7	404.7	404.6	404.6	404.4	404.2	404.1	403.8	403.6
127.5°	439.9	440.4	440.8	441.2	441.3	441.1	440.9	440.7	440.4	440.2	439.9
130°	464.5	464.9	465.3	465.7	465.9	465.9	465.9	465.9	465.9	465.6	465.4
132.5°	489.3	489.7	489.9	490.2	490.3	490.2	490.2	490.0	489.9	489.6	489.3
135°	522.9	523.7	524.6	525.5	525.9	525.9	525.9	525.9	525.9	525.5	525.3
137.5°	558.4	558.7	559.1	559.5	559.9	560.1	560.4	560.5	560.8	560.4	560.0
140°	582.2	582.5	582.8	583.1	583.2	583.2	583.2	583.2	583.2	583.1	582.9
142.5°	604.1	604.5	604.7	605.0	605.1	605.0	604.9	604.7	604.6	604.6	604.5
145°	634.8	635.4	635.9	636.5	636.8	637.0	637.1	637.2	637.4	637.2	637.1
147.5°	665.0	665.6	666.3	667.0	667.3	667.2	667.1	666.9	666.8	666.8	666.6
150°	683.2	683.8	684.4	684.9	685.2	685.2	685.2	685.2	685.2	685.2	685.2
152.5°	700.3	700.7	701.0	701.3	701.6	701.6	701.8	701.9	702.1	702.4	702.7
155°	726.6	726.6	726.6	726.6	726.5	726.4	726.3	726.1	726.0	726.5	727.1
157.5°	748.8	748.5	748.3	748.0	747.9	747.9	747.9	747.8	747.8	748.2	748.6
160°	762.1	762.1	761.9	761.7	761.6	761.5	761.3	761.2	761.1	761.5	761.9
162.5°	774.2	773.8	773.5	773.1	772.8	772.7	772.6	772.4	772.3	773.1	773.8
165°	790.6	790.2	789.7	789.3	789.0	788.6	788.4	788.1	787.8	788.6	789.5
167.5°	803.0	802.4	801.8	801.3	801.0	801.0	801.0	801.0	801.0	801.9	802.7
170°	810.1	809.3	808.6	808.0	807.6	807.8	808.0	808.0	808.2	809.0	809.9
172.5°	815.3	814.6	814.1	813.5	813.2	813.3	813.3	813.3	813.3	814.2	815.2
175°	822.1	821.4	820.8	820.0	819.6	819.5	819.3	819.2	819.0	820.0	821.0
177.5°	824.6	824.0	823.5	822.9	822.6	822.6	822.6	822.6	822.6	823.4	824.2
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1656.3	1657.3	1662.0	1665.7	1666.7	1671.9	1672.4
5°	1801.8	1812.9	1834.3	1836.3	1839.6	1856.5	1843.5
7.5°	1972.4	2000.5	2019.3	2035.8	2041.8	2049.2	2047.6
10°	2081.7	2123.4	2144.2	2177.4	2178.7	2187.2	2182.0
12.5°	2191.6	2240.0	2278.0	2284.1	2312.0	2316.3	2323.6
15°	2347.3	2398.7	2451.4	2470.4	2508.8	2517.9	2532.2
17.5°	2493.7	2546.3	2583.2	2632.0	2647.8	2668.9	2654.5
20°	2573.8	2631.1	2678.0	2716.4	2732.6	2744.4	2743.1
22.5°	2622.2	2680.1	2718.0	2747.2	2762.3	2767.3	2767.0
25°	2652.6	2685.8	2697.5	2708.6	2691.6	2685.8	2688.4
27.5°	2568.3	2559.6	2529.1	2488.9	2447.3	2414.2	2396.2
30°	2452.1	2401.3	2355.2	2274.4	2232.8	2208.0	2185.9
32.5°	2287.6	2207.1	2118.1	2044.2	1996.8	1960.1	1954.7
35°	2005.6	1884.5	1775.8	1685.3	1638.4	1598.7	1589.6
37.5°	1705.1	1579.3	1481.4	1401.7	1351.4	1323.4	1297.2
40°	1505.6	1397.6	1301.2	1233.5	1195.1	1174.9	1158.7
42.5°	1352.0	1253.4	1157.5	1106.0	1071.2	1058.8	1049.3
45°	1139.8	1048.0	981.6	942.6	922.3	901.6	891.8
47.5°	969.9	895.2	851.4	818.2	796.6	784.2	778.0
50°	873.6	812.4	773.3	748.0	728.4	718.6	713.5
52.5°	788.1	737.9	705.1	684.9	671.6	664.5	662.4
55°	678.9	640.5	619.7	602.1	592.4	585.9	583.3
57.5°	590.1	560.6	543.6	529.2	525.5	520.0	518.1
60°	531.8	509.1	494.7	484.9	481.7	475.2	476.5
62.5°	480.3	461.6	449.4	443.8	439.5	434.1	435.9
65°	406.2	392.5	386.0	380.8	375.6	372.3	375.0
67.5°	340.8	331.5	322.6	319.6	317.0	316.5	313.7
70°	298.2	290.3	282.5	280.5	280.5	277.9	277.3
72.5°	257.0	251.3	246.1	244.6	242.6	243.6	240.8
75°	198.5	194.0	192.0	190.0	189.4	189.4	187.4
77.5°	146.8	143.3	140.2	140.2	137.9	137.0	136.7
80°	111.3	110.0	107.4	107.4	106.1	106.7	105.4
82.5°	83.7	81.9	81.4	80.3	78.5	78.6	77.4
85°	44.9	43.0	42.3	40.4	39.1	40.4	39.1
87.5°	18.9	18.6	18.2	17.2	16.7	16.8	15.2
90°	16.6	17.4	18.0	18.3	18.6	18.8	19.2
92.5°	26.7	27.3	27.6	27.8	28.0	28.1	28.3
95°	49.7	50.1	50.4	50.4	50.4	50.4	50.4
97.5°	78.1	78.7	78.9	78.9	78.9	78.9	78.9
100°	98.4	98.7	98.8	98.8	98.8	98.8	98.8
102.5°	120.1	120.5	120.7	120.9	121.0	121.2	121.2
105°	153.0	153.4	153.8	154.3	154.7	155.1	155.6
107.5°	188.4	188.8	189.1	189.0	189.0	189.0	188.9
110°	211.4	211.1	211.2	211.7	212.1	212.5	212.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	237.1	237.0	237.0	237.1	237.2	237.3	237.3
115°	276.2	276.1	275.9	275.8	275.7	275.5	275.3
117.5°	313.6	313.1	312.7	312.4	312.1	311.9	311.5
120°	338.8	338.2	337.9	338.3	338.5	338.8	339.1
122.5°	365.1	364.6	364.1	363.5	363.1	362.6	362.1
125°	403.2	403.0	402.7	402.4	402.1	401.9	401.5
127.5°	439.6	439.3	439.0	438.8	438.6	438.4	438.1
130°	465.0	464.8	464.4	463.8	463.3	462.7	462.1
132.5°	489.0	488.8	488.5	488.3	488.0	487.8	487.6
135°	525.0	524.7	524.3	523.9	523.5	523.1	522.7
137.5°	559.7	559.3	559.1	559.2	559.3	559.4	559.5
140°	582.8	582.6	582.5	582.4	582.2	582.0	582.0
142.5°	604.5	604.5	604.5	604.5	604.5	604.4	604.4
145°	637.0	636.8	636.5	636.1	635.7	635.3	634.9
147.5°	666.5	666.3	666.3	666.1	665.9	665.9	665.7
150°	685.2	685.2	685.1	685.0	684.9	684.7	684.5
152.5°	703.0	703.4	703.4	703.0	702.6	702.3	701.9
155°	727.7	728.2	728.2	727.7	727.1	726.5	726.0
157.5°	749.1	749.5	749.4	749.0	748.5	748.0	747.5
160°	762.3	762.7	762.6	761.9	761.2	760.5	759.8
162.5°	774.5	775.3	775.3	774.6	774.0	773.2	772.5
165°	790.4	791.2	791.3	790.8	790.2	789.6	789.1
167.5°	803.6	804.5	804.5	803.6	802.7	801.8	801.0
170°	810.7	811.6	811.5	810.6	809.6	808.5	807.6
172.5°	816.2	817.2	817.2	816.2	815.1	814.2	813.2
175°	822.0	823.0	823.0	822.0	821.0	820.0	819.0
177.5°	825.0	825.8	825.7	824.8	823.9	823.0	822.1
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1

(END OF REPORT)