

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: P331439-930

Luminaire Tested: **SA2XXDIP-C1005D725U930-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331439-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C1005D725U930-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 725 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

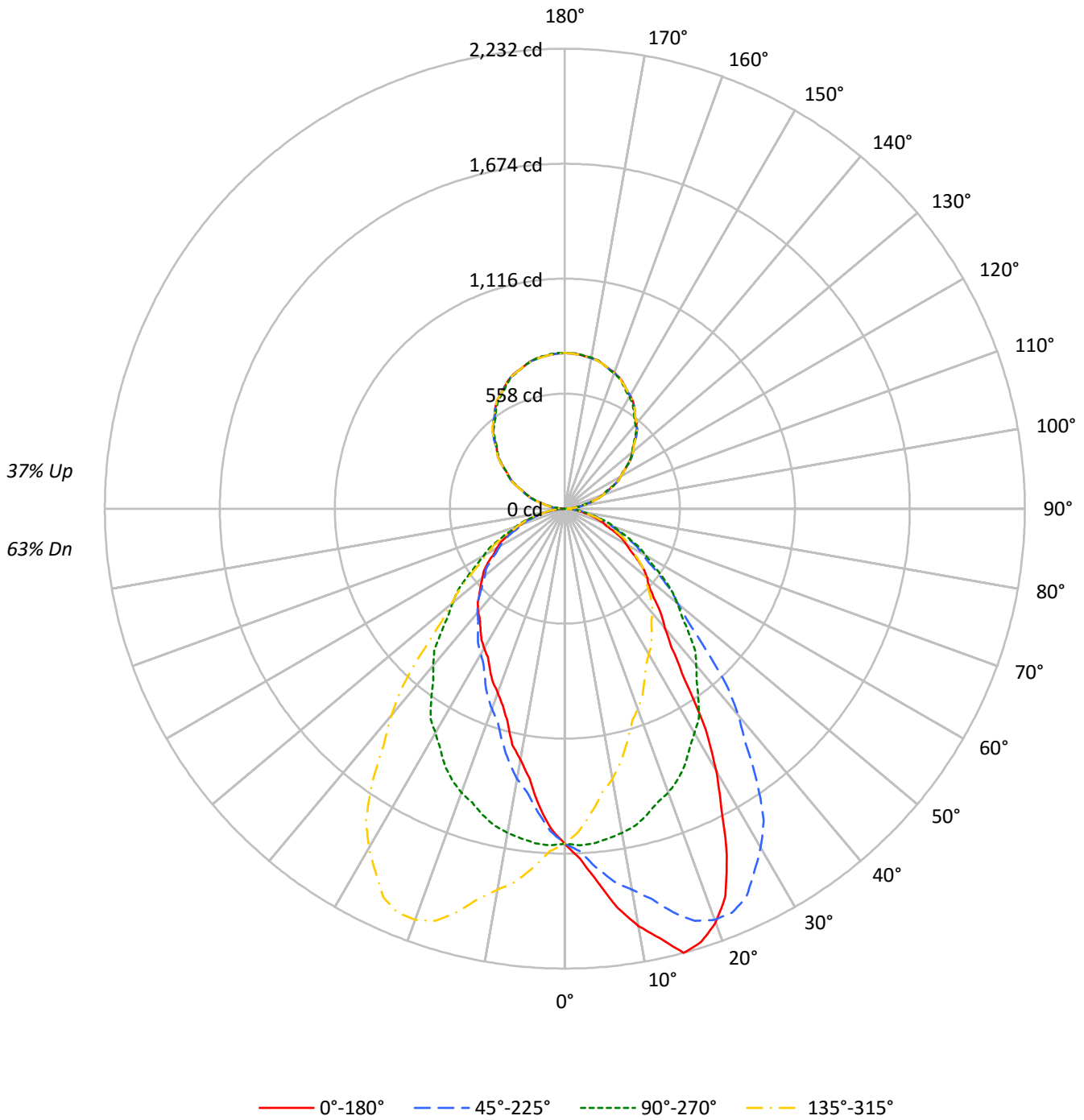
Lumens per Lamp: N/A  
Luminaire Lumens: 5701.3 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

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	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63
1	101	97	93	90	95	91	88	85	80	78	76	70	69	67	61	60	59	54
2	93	86	80	75	87	81	75	71	71	67	64	62	59	57	54	52	50	46
3	85	76	69	63	80	71	65	60	63	58	54	56	52	49	49	46	44	40
4	78	68	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38	35
5	72	61	53	47	67	57	50	45	51	45	41	45	41	37	40	36	34	31
6	67	55	47	41	62	52	45	39	46	40	36	41	37	33	37	33	30	27
7	62	50	42	36	58	47	40	35	42	36	32	38	33	29	34	30	27	24
8	58	45	38	32	54	43	36	31	39	33	29	35	30	27	31	27	24	22
9	54	42	34	29	50	40	33	28	36	30	26	32	27	24	29	25	22	20
10	50	38	31	26	47	36	30	25	33	27	24	30	25	22	27	23	20	18

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

	0°	90°	180°	270°
0°	26248	26248	26248	26248
5°	29428	26420	23412	26420
10°	33721	26202	20261	26202
15°	37305	25723	17901	25723
20°	36737	25206	16318	25206
25°	33127	24522	15316	24522
30°	27374	23426	14585	23426
35°	19951	22277	14063	22277
40°	15934	20925	13774	20925
45°	13924	19358	13381	19358
50°	13089	17844	13122	17844
55°	12065	16304	12769	16304
60°	11057	14667	12226	14667
65°	10074	13200	11694	13200
70°	9144	11769	10914	11769
75°	8110	10175	9669	10175
80°	6974	8424	7782	8424
85°	6262	6262	4631	6262



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.8	2.7
10°-20°	450.1	7.9
20°-30°	653.3	11.5
30°-40°	689.3	12.1
40°-50°	610.4	10.7
50°-60°	487.1	8.5
60°-70°	331.1	5.8
70°-80°	169.7	3.0
80°-90°	43.9	0.8
90°-100°	47.9	0.8
100°-110°	148.6	2.6
110°-120°	254.0	4.5
120°-130°	334.1	5.9
130°-140°	375.0	6.6
140°-150°	367.7	6.4
150°-160°	308.4	5.4
160°-170°	204.5	3.6
170°-180°	71.5	1.3
0°-30°	1258.2	22.1
0°-40°	1947.5	34.2
0°-60°	3045.0	53.4
0°-90°	3589.7	63.0
90°-120°	450.5	7.9
90°-150°	1527.2	26.8
90°-180°	2112.0	37.0
0°-180°	5701.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1626	1626	1626	1626	1626	
5°	1816	1630	1444	1630	1816	181
15°	2232	1539	1071	1539	2232	616
25°	1860	1376	860	1376	1860	840
35°	1012	1130	714	1130	1012	658
45°	610	848	586	848	610	480
55°	429	579	454	579	429	384
65°	264	346	306	346	264	262
75°	130	163	155	163	130	139
85°	34	34	25	34	34	38
90°	22	1	22	1	22	11
95°	40	33	40	33	40	44
105°	142	137	142	137	142	149
115°	255	255	255	255	255	252
125°	372	371	372	371	372	332
135°	486	480	486	480	486	374
145°	589	582	589	582	589	368
155°	671	666	671	666	671	309
165°	725	725	725	725	725	205
175°	751	754	751	754	751	71
180°	755	755	755	755	755	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1700.7	1701.2	1702.2	1694.2	1693.2	1693.2	1686.2	1680.3	1673.2	1663.7	1664.8
5°	1815.7	1822.5	1825.0	1817.5	1806.3	1805.1	1794.5	1776.9	1760.7	1747.6	1738.2
7.5°	1952.9	1955.7	1949.5	1939.7	1931.3	1916.3	1896.5	1877.1	1850.1	1825.2	1806.7
10°	2056.8	2060.6	2050.0	2035.6	2023.7	2006.3	1977.5	1948.2	1912.5	1878.2	1850.6
12.5°	2135.8	2145.1	2131.4	2129.6	2109.3	2085.2	2051.0	2036.1	1986.0	1938.1	1908.7
15°	2231.8	2231.1	2232.5	2220.5	2205.5	2201.8	2165.6	2126.2	2055.6	2027.5	1978.7
17.5°	2204.1	2213.5	2217.9	2217.8	2217.5	2215.1	2203.4	2178.6	2143.2	2097.6	2041.3
20°	2138.1	2150.6	2152.5	2166.8	2175.0	2185.6	2190.0	2183.0	2161.2	2123.1	2074.4
22.5°	2036.1	2039.6	2045.5	2067.8	2085.5	2112.1	2126.0	2149.0	2140.7	2122.1	2081.4
25°	1859.5	1853.2	1875.0	1886.3	1926.9	1969.4	2000.0	2033.8	2063.8	2081.9	2070.0
27.5°	1647.2	1637.9	1670.6	1700.5	1733.5	1779.5	1827.2	1883.5	1930.4	1989.0	2009.1
30°	1468.3	1473.9	1505.1	1537.0	1587.0	1652.0	1705.7	1767.6	1834.4	1900.1	1945.6
32.5°	1275.4	1297.0	1316.7	1365.5	1409.6	1482.1	1560.7	1638.1	1721.5	1796.1	1866.7
35°	1012.2	1037.1	1064.7	1100.2	1162.1	1234.0	1310.8	1415.2	1528.9	1630.8	1714.5
37.5°	852.0	848.0	863.7	889.5	939.6	997.6	1086.1	1189.1	1323.0	1442.7	1560.7
40°	756.0	753.5	764.8	788.5	826.6	869.1	946.6	1037.1	1161.5	1307.7	1448.3
42.5°	690.1	691.5	697.8	714.5	740.6	775.6	833.6	910.7	1024.6	1162.3	1313.4
45°	609.8	614.2	621.1	629.2	644.2	672.9	705.4	760.4	850.4	965.3	1114.0
47.5°	552.0	552.2	559.2	566.3	575.2	591.4	617.9	652.4	715.9	809.5	937.3
50°	521.1	516.7	521.7	527.3	536.7	548.0	565.4	597.9	640.4	716.0	822.9
52.5°	483.1	483.2	487.7	489.8	498.2	509.5	525.5	548.0	586.4	645.6	733.4
55°	428.6	431.7	434.2	438.0	445.5	453.6	466.1	481.1	511.1	555.5	620.4
57.5°	377.4	378.4	380.9	388.0	392.7	400.2	412.1	425.7	445.2	478.1	526.9
60°	342.4	342.4	347.4	350.5	356.8	364.3	373.7	386.8	404.2	431.1	470.5
62.5°	310.4	309.9	311.9	317.0	321.8	328.8	338.1	349.3	365.7	389.6	422.0
65°	263.7	262.4	266.2	267.4	272.4	279.3	286.8	298.6	311.8	329.3	358.0
67.5°	218.7	220.2	222.2	224.5	227.3	234.6	239.5	247.9	259.0	273.5	293.0
70°	193.7	193.7	193.7	195.6	199.3	203.1	208.1	214.9	225.6	238.1	255.5
72.5°	165.7	167.7	169.7	168.6	173.3	175.5	181.6	185.5	195.6	203.6	219.1
75°	130.0	130.0	130.0	133.1	134.9	136.8	140.6	144.3	149.4	159.3	167.5
77.5°	96.9	96.7	97.3	98.1	100.1	102.3	103.5	106.8	111.5	116.1	122.9
80°	75.0	76.2	76.9	78.1	78.1	79.3	80.0	84.4	87.5	90.6	95.0
82.5°	58.0	58.2	58.4	58.6	59.1	59.8	61.5	62.9	64.0	66.6	70.0
85°	33.8	33.1	33.1	34.3	33.8	33.8	35.0	36.2	36.2	36.9	38.7
87.5°	17.4	17.3	17.8	17.3	17.2	17.7	17.8	17.4	17.9	18.4	18.3
90°	21.7	21.5	21.4	21.3	21.1	21.2	21.4	21.8	22.0	22.3	19.2
92.5°	20.6	20.6	20.6	20.5	20.5	20.5	20.5	20.4	20.3	20.3	19.6
95°	39.5	39.8	40.1	40.4	40.7	40.8	40.8	40.8	40.8	40.8	40.5
97.5°	68.4	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.0
100°	87.3	87.5	87.6	87.7	87.9	88.0	88.0	88.0	88.0	88.0	87.5
102.5°	108.7	108.8	109.0	109.2	109.3	109.3	109.2	109.1	108.9	108.8	108.3
105°	141.5	141.5	141.5	141.5	141.5	141.4	141.0	140.8	140.5	140.2	139.9
107.5°	172.4	173.0	173.7	174.3	175.0	175.2	175.0	175.0	174.9	174.7	174.7
110°	196.2	196.7	197.1	197.5	198.0	198.2	198.2	198.2	198.2	198.2	198.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	219.2	219.6	219.8	220.1	220.5	220.8	221.1	221.4	221.8	222.2	222.3
115°	254.9	255.4	255.8	256.2	256.6	256.9	257.1	257.1	257.3	257.5	257.7
117.5°	288.9	289.3	289.8	290.2	290.7	291.0	291.4	291.7	292.0	292.4	293.2
120°	312.9	313.3	313.7	314.1	314.6	314.8	314.8	314.8	314.8	314.8	315.9
122.5°	336.4	336.6	337.0	337.3	337.6	337.9	338.3	338.6	338.9	339.2	340.1
125°	372.2	372.3	372.4	372.6	372.8	373.0	373.4	373.9	374.3	374.7	375.1
127.5°	404.8	405.3	405.7	406.2	406.6	407.1	407.6	408.1	408.6	409.1	409.6
130°	428.3	428.8	429.4	429.9	430.5	431.0	431.2	431.5	431.8	432.1	432.4
132.5°	450.7	451.1	451.6	452.0	452.5	453.1	453.6	454.3	454.9	455.5	455.4
135°	485.6	486.0	486.5	486.9	487.3	487.5	487.7	487.9	488.0	488.1	487.9
137.5°	517.2	517.8	518.4	518.9	519.5	519.8	519.9	520.1	520.2	520.2	519.9
140°	539.2	539.7	540.3	540.9	541.4	541.7	541.7	541.7	541.7	541.7	541.0
142.5°	559.1	559.6	560.1	560.7	561.3	561.5	561.4	561.3	561.2	561.1	560.6
145°	588.8	589.4	590.0	590.5	591.1	591.3	591.2	591.0	590.9	590.8	589.9
147.5°	615.5	616.0	616.5	617.1	617.7	617.8	617.4	617.1	616.8	616.5	616.0
150°	632.8	633.2	633.7	634.1	634.5	634.5	634.1	633.7	633.2	632.8	632.3
152.5°	649.1	649.6	650.2	650.8	651.3	651.3	650.8	650.2	649.6	649.1	648.4
155°	671.1	671.5	671.9	672.3	672.8	672.6	671.9	671.2	670.5	669.8	669.4
157.5°	689.9	690.6	691.3	691.9	692.6	692.5	691.5	690.6	689.6	688.6	688.4
160°	701.6	702.2	702.8	703.4	703.9	703.8	703.0	702.1	701.2	700.3	700.3
162.5°	711.8	712.5	713.2	713.9	714.5	714.4	713.5	712.5	711.5	710.5	710.5
165°	725.2	725.9	726.6	727.3	728.1	727.9	726.9	725.9	725.0	723.9	723.9
167.5°	736.2	736.9	737.7	738.4	739.2	739.0	738.0	737.0	736.1	735.0	735.1
170°	741.8	742.7	743.5	744.4	745.2	745.1	744.1	743.1	742.2	741.1	741.3
172.5°	746.4	747.2	748.0	748.9	749.7	749.7	748.7	747.7	746.7	745.8	745.9
175°	751.4	752.2	753.0	753.9	754.7	754.6	753.7	752.7	751.7	750.7	751.0
177.5°	753.7	754.3	755.0	755.7	756.4	756.4	755.7	755.0	754.3	753.7	753.8
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1668.3	1664.3	1661.7	1652.8	1644.7	1636.7	1634.3	1635.2	1624.2	1613.7	1609.2
5°	1733.2	1720.7	1708.9	1692.0	1672.0	1650.1	1638.8	1630.1	1608.3	1584.5	1570.8
7.5°	1791.5	1773.6	1750.7	1719.0	1689.9	1655.5	1633.6	1614.2	1582.3	1548.7	1528.3
10°	1826.9	1802.5	1773.2	1734.5	1698.8	1657.0	1627.6	1598.2	1560.7	1520.8	1495.7
12.5°	1857.4	1824.6	1795.7	1746.0	1703.8	1651.5	1616.7	1575.2	1535.8	1488.2	1463.8
15°	1930.1	1869.4	1814.4	1758.2	1706.3	1633.2	1594.5	1538.9	1487.0	1428.3	1400.2
17.5°	1986.2	1918.0	1831.4	1760.0	1699.5	1618.5	1561.6	1495.0	1433.7	1366.6	1328.4
20°	2018.1	1940.0	1846.9	1761.9	1689.5	1597.0	1535.1	1467.0	1395.2	1319.6	1278.4
22.5°	2037.1	1955.0	1863.0	1754.4	1669.5	1579.5	1501.6	1427.0	1354.2	1272.6	1229.4
25°	2043.1	1968.1	1870.7	1748.2	1644.5	1542.6	1448.9	1376.5	1288.3	1212.1	1149.0
27.5°	2013.4	1959.7	1865.9	1736.4	1615.6	1496.6	1392.0	1309.9	1217.0	1134.2	1070.8
30°	1976.9	1945.6	1854.4	1724.4	1592.6	1464.5	1349.6	1256.5	1164.0	1080.3	1015.3
32.5°	1920.4	1913.7	1833.4	1707.5	1568.1	1424.1	1305.1	1211.0	1108.6	1026.3	964.3
35°	1809.5	1839.4	1788.8	1669.5	1522.0	1366.4	1237.7	1130.2	1024.1	945.3	887.2
37.5°	1660.8	1735.2	1722.0	1613.9	1459.8	1303.7	1161.6	1049.3	948.1	868.6	811.6
40°	1558.3	1653.3	1667.0	1571.4	1415.8	1255.2	1104.6	992.8	894.1	821.7	764.1
42.5°	1448.3	1559.3	1597.0	1520.4	1367.8	1204.3	1053.7	937.8	840.1	769.6	718.7
45°	1264.0	1410.8	1479.0	1435.2	1287.8	1120.3	965.3	847.8	759.1	692.9	653.5
47.5°	1091.7	1252.1	1343.7	1328.2	1198.7	1032.8	879.6	766.9	680.5	627.7	592.5
50°	969.7	1134.7	1245.2	1250.3	1134.7	970.3	816.6	710.4	631.0	581.7	552.9
52.5°	863.7	1021.2	1141.7	1168.2	1063.2	905.3	760.1	654.4	584.6	539.2	513.5
55°	725.4	858.5	992.2	1040.9	956.6	806.7	672.3	579.2	513.6	482.3	459.8
57.5°	603.1	714.0	837.5	891.4	839.4	711.0	585.1	504.2	451.0	423.6	406.3
60°	538.6	626.1	736.1	800.4	755.4	641.1	531.1	454.2	410.5	386.1	369.9
62.5°	478.6	556.1	649.1	707.9	683.4	575.6	477.1	409.3	371.5	348.6	336.9
65°	394.8	456.1	528.0	582.3	566.1	484.2	403.7	345.5	315.5	297.4	288.0
67.5°	325.1	369.4	419.2	466.8	453.7	395.7	331.0	285.8	263.4	247.8	242.1
70°	281.2	314.9	359.3	397.4	386.8	339.2	288.0	249.3	229.9	216.8	211.2
72.5°	239.2	266.9	300.8	331.9	324.7	285.3	242.6	213.3	198.4	186.3	181.7
75°	180.6	201.8	222.4	243.0	241.2	210.6	185.6	163.1	151.2	141.9	140.0
77.5°	133.3	145.2	159.2	171.5	168.0	150.6	130.9	118.1	109.3	103.1	102.1
80°	101.8	108.7	118.7	127.4	123.1	115.6	100.0	90.6	84.4	78.1	75.6
82.5°	73.9	80.7	86.7	91.5	88.1	81.1	71.5	65.1	61.4	57.1	56.1
85°	38.7	42.5	45.0	46.2	45.0	40.6	36.2	33.8	30.7	28.8	28.1
87.5°	18.2	17.6	17.0	17.4	15.7	15.3	13.0	11.1	10.9	10.8	10.1
90°	16.1	13.0	9.9	7.4	5.7	4.1	2.4	0.7	2.4	4.1	5.7
92.5°	18.8	18.0	17.3	16.3	15.1	13.9	12.6	11.3	12.6	13.9	15.1
95°	40.2	39.9	39.6	38.8	37.4	36.0	34.6	33.1	34.6	36.0	37.4
97.5°	67.5	66.9	66.4	65.6	64.2	63.0	61.8	60.6	61.8	63.0	64.2
100°	87.1	86.7	86.3	85.4	84.3	83.2	82.1	81.0	82.1	83.2	84.3
102.5°	107.8	107.2	106.7	106.0	105.1	104.2	103.2	102.3	103.2	104.2	105.1
105°	139.7	139.3	139.1	138.7	138.3	137.9	137.5	137.1	137.5	137.9	138.3
107.5°	174.7	174.7	174.7	174.4	173.8	173.2	172.6	171.9	172.6	173.2	173.8
110°	198.2	198.2	198.2	197.8	196.9	196.1	195.2	194.4	195.2	196.1	196.9





TEST NUMBER: P331439-930

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	222.4	222.5	222.6	222.3	221.4	220.5	219.7	218.8	219.7	220.5	221.4
115°	258.0	258.3	258.6	258.3	257.5	256.6	255.8	254.9	255.8	256.6	257.5
117.5°	294.0	294.7	295.5	295.4	294.2	293.1	292.0	290.8	292.0	293.1	294.2
120°	317.1	318.2	319.4	319.4	318.2	317.1	315.9	314.8	315.9	317.1	318.2
122.5°	340.9	341.7	342.4	342.2	340.8	339.5	338.1	336.7	338.1	339.5	340.8
125°	375.5	376.0	376.4	376.0	374.7	373.4	372.2	370.9	372.2	373.4	374.7
127.5°	410.2	410.7	411.2	410.6	409.0	407.4	405.8	404.1	405.8	407.4	409.0
130°	432.6	432.9	433.2	432.4	430.6	428.8	426.9	425.1	426.9	428.8	430.6
132.5°	455.4	455.3	455.3	454.5	453.0	451.5	450.0	448.5	450.0	451.5	453.0
135°	487.5	487.3	487.0	486.1	484.5	483.0	481.4	479.9	481.4	483.0	484.5
137.5°	519.5	519.2	518.8	518.0	516.7	515.4	514.1	512.9	514.1	515.4	516.7
140°	540.3	539.6	538.8	537.9	536.5	535.3	534.0	532.8	534.0	535.3	536.5
142.5°	560.1	559.6	559.1	558.2	557.0	555.7	554.4	553.2	554.4	555.7	557.0
145°	589.1	588.2	587.3	586.4	585.5	584.5	583.4	582.4	583.4	584.5	585.5
147.5°	615.4	614.8	614.2	613.3	612.1	611.0	609.8	608.6	609.8	611.0	612.1
150°	631.7	631.1	630.6	629.8	629.0	628.1	627.3	626.5	627.3	628.1	629.0
152.5°	647.8	647.1	646.4	645.6	644.8	643.9	643.1	642.2	643.1	643.9	644.8
155°	669.0	668.5	668.1	667.6	667.2	666.8	666.3	665.9	666.3	666.8	667.2
157.5°	688.1	687.9	687.6	687.4	687.1	686.8	686.5	686.2	686.5	686.8	687.1
160°	700.1	699.9	699.8	699.6	699.3	699.0	698.7	698.5	698.7	699.0	699.3
162.5°	710.3	710.1	710.0	709.9	709.8	709.8	709.7	709.6	709.7	709.8	709.8
165°	723.9	723.9	723.9	724.0	724.1	724.3	724.5	724.6	724.5	724.3	724.1
167.5°	735.1	735.2	735.2	735.4	735.8	736.2	736.6	737.0	736.6	736.2	735.8
170°	741.4	741.6	741.7	742.0	742.4	742.8	743.3	743.7	743.3	742.8	742.4
172.5°	746.0	746.2	746.3	746.6	747.0	747.5	747.9	748.3	747.9	747.5	747.0
175°	751.3	751.5	751.9	752.2	752.6	753.0	753.5	753.9	753.5	753.0	752.6
177.5°	754.1	754.3	754.6	754.8	755.1	755.5	755.9	756.2	755.9	755.5	755.1
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1



TEST NUMBER: P331439-930  
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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1604.3	1601.2	1590.7	1585.3	1576.3	1567.7	1562.3	1564.8	1566.8	1565.8	1564.2
5°	1558.3	1546.4	1528.3	1512.6	1501.4	1480.8	1472.0	1467.7	1464.0	1459.5	1455.1
7.5°	1503.5	1484.8	1458.8	1436.6	1415.5	1389.9	1375.3	1366.6	1357.6	1347.7	1339.0
10°	1464.5	1438.3	1410.8	1379.6	1354.6	1331.5	1310.8	1297.1	1284.6	1272.8	1264.0
12.5°	1423.6	1393.3	1359.3	1316.6	1289.1	1256.0	1252.9	1228.7	1209.1	1201.8	1191.5
15°	1358.3	1315.8	1272.8	1222.1	1200.3	1170.3	1151.5	1132.8	1115.9	1104.0	1100.9
17.5°	1284.3	1229.2	1186.3	1150.0	1114.2	1083.5	1066.2	1051.2	1037.3	1021.4	1019.3
20°	1227.8	1180.2	1133.4	1101.6	1064.7	1033.4	1012.2	997.2	985.3	975.9	967.8
22.5°	1174.3	1122.3	1079.4	1044.6	1008.2	982.9	966.2	951.7	941.8	931.5	923.8
25°	1088.4	1047.8	1000.9	961.6	931.6	915.3	901.6	889.1	882.9	876.0	867.2
27.5°	1013.3	968.2	924.3	893.8	867.5	853.1	843.3	834.9	829.0	825.0	820.0
30°	960.3	914.7	880.4	850.4	828.5	814.2	807.9	802.9	796.0	793.5	791.0
32.5°	909.3	868.2	838.9	812.9	792.0	782.6	776.9	772.4	767.0	764.5	759.5
35°	837.2	802.9	774.1	759.8	742.9	734.7	730.4	724.1	719.2	716.6	716.0
37.5°	769.4	739.6	720.6	702.1	695.0	690.1	684.0	679.8	678.3	677.9	677.3
40°	725.4	701.0	684.2	669.2	666.0	658.5	653.5	649.8	649.8	650.4	649.8
42.5°	685.4	663.6	648.7	635.7	632.0	627.5	622.6	622.3	623.3	625.4	623.3
45°	624.8	609.2	598.6	592.3	585.5	581.1	580.4	582.3	582.9	583.6	585.5
47.5°	569.1	558.7	549.1	542.2	539.2	538.4	537.7	541.0	544.0	545.1	548.0
50°	536.1	524.2	516.1	511.7	509.2	507.9	509.2	513.0	515.4	518.6	520.5
52.5°	499.1	490.7	485.1	481.8	480.7	481.5	481.8	486.0	490.0	491.1	492.0
55°	448.0	441.7	440.5	434.9	437.3	436.8	439.9	442.4	446.1	449.9	450.5
57.5°	397.0	392.0	388.7	389.1	389.9	392.6	395.3	399.7	403.7	407.6	408.0
60°	363.1	360.5	358.7	358.7	359.9	363.6	366.7	371.1	373.7	376.1	378.0
62.5°	332.0	329.5	327.7	328.6	331.9	334.1	337.8	340.1	342.7	345.1	346.0
65°	283.1	281.8	283.6	284.9	285.5	288.7	293.0	294.9	297.4	298.6	303.0
67.5°	237.9	238.1	237.9	239.7	243.3	244.0	248.2	252.6	253.1	255.4	258.3
70°	207.4	208.7	209.9	211.2	214.3	215.6	218.7	220.5	223.1	224.9	226.8
72.5°	179.4	179.7	180.9	180.7	183.3	186.1	188.7	190.5	193.1	195.4	197.3
75°	138.1	138.1	139.3	140.0	143.1	146.2	145.6	146.8	149.4	151.8	153.1
77.5°	100.9	99.5	100.9	101.5	102.5	105.1	105.6	107.4	110.2	109.3	110.7
80°	76.9	75.0	76.9	77.5	77.5	80.6	80.6	81.9	83.7	81.9	83.7
82.5°	54.9	54.0	55.4	55.5	56.5	56.6	57.6	57.9	59.8	58.9	59.8
85°	27.5	26.9	27.5	26.9	27.5	28.1	28.1	27.5	27.5	28.8	26.9
87.5°	9.9	9.9	10.1	10.7	10.8	10.9	10.4	10.4	10.3	9.2	9.2
90°	7.4	9.9	13.0	16.1	19.2	22.3	22.0	21.8	21.4	21.2	21.1
92.5°	16.3	17.3	18.0	18.8	19.6	20.3	20.3	20.4	20.5	20.5	20.5
95°	38.8	39.6	39.9	40.2	40.5	40.8	40.8	40.8	40.8	40.8	40.7
97.5°	65.6	66.4	66.9	67.5	68.0	68.6	68.6	68.6	68.6	68.6	68.6
100°	85.4	86.3	86.7	87.1	87.5	88.0	88.0	88.0	88.0	88.0	87.9
102.5°	106.0	106.7	107.2	107.8	108.3	108.8	108.9	109.1	109.2	109.3	109.3
105°	138.7	139.1	139.3	139.7	139.9	140.2	140.5	140.8	141.0	141.4	141.5
107.5°	174.4	174.7	174.7	174.7	174.7	174.7	174.9	175.0	175.0	175.2	175.0
110°	197.8	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.0



TEST NUMBER: P331439-930

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	222.3	222.6	222.5	222.4	222.3	222.2	221.8	221.4	221.1	220.8	220.5
115°	258.3	258.6	258.3	258.0	257.7	257.5	257.3	257.1	257.1	256.9	256.6
117.5°	295.4	295.5	294.7	294.0	293.2	292.4	292.0	291.7	291.4	291.0	290.7
120°	319.4	319.4	318.2	317.1	315.9	314.8	314.8	314.8	314.8	314.8	314.6
122.5°	342.2	342.4	341.7	340.9	340.1	339.2	338.9	338.6	338.3	337.9	337.6
125°	376.0	376.4	376.0	375.5	375.1	374.7	374.3	373.9	373.4	373.0	372.8
127.5°	410.6	411.2	410.7	410.2	409.6	409.1	408.6	408.1	407.6	407.1	406.6
130°	432.4	433.2	432.9	432.6	432.4	432.1	431.8	431.5	431.2	431.0	430.5
132.5°	454.5	455.3	455.3	455.4	455.4	455.5	454.9	454.3	453.6	453.1	452.5
135°	486.1	487.0	487.3	487.5	487.9	488.1	488.0	487.9	487.7	487.5	487.3
137.5°	518.0	518.8	519.2	519.5	519.9	520.2	520.2	520.1	519.9	519.8	519.5
140°	537.9	538.8	539.6	540.3	541.0	541.7	541.7	541.7	541.7	541.7	541.4
142.5°	558.2	559.1	559.6	560.1	560.6	561.1	561.2	561.3	561.4	561.5	561.3
145°	586.4	587.3	588.2	589.1	589.9	590.8	590.9	591.0	591.2	591.3	591.1
147.5°	613.3	614.2	614.8	615.4	616.0	616.5	616.8	617.1	617.4	617.8	617.7
150°	629.8	630.6	631.1	631.7	632.3	632.8	633.2	633.7	634.1	634.5	634.5
152.5°	645.6	646.4	647.1	647.8	648.4	649.1	649.6	650.2	650.8	651.3	651.3
155°	667.6	668.1	668.5	669.0	669.4	669.8	670.5	671.2	671.9	672.6	672.8
157.5°	687.4	687.6	687.9	688.1	688.4	688.6	689.6	690.6	691.5	692.5	692.6
160°	699.6	699.8	699.9	700.1	700.3	700.3	701.2	702.1	703.0	703.8	703.9
162.5°	709.9	710.0	710.1	710.3	710.5	710.5	711.5	712.5	713.5	714.4	714.5
165°	724.0	723.9	723.9	723.9	723.9	723.9	725.0	725.9	726.9	727.9	728.1
167.5°	735.4	735.2	735.2	735.1	735.1	735.0	736.1	737.0	738.0	739.0	739.2
170°	742.0	741.7	741.6	741.4	741.3	741.1	742.2	743.1	744.1	745.1	745.2
172.5°	746.6	746.3	746.2	746.0	745.9	745.8	746.7	747.7	748.7	749.7	749.7
175°	752.2	751.9	751.5	751.3	751.0	750.7	751.7	752.7	753.7	754.6	754.7
177.5°	754.8	754.6	754.3	754.1	753.8	753.7	754.3	755.0	755.7	756.4	756.4
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1



TEST NUMBER: P331439-930

CATALOG NUMBER: SA2XXDIP-C1005D725U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1559.3	1558.3	1558.3	1553.8	1558.3	1558.3	1559.3	1564.2	1565.8	1566.8	1564.8
5°	1446.4	1444.5	1441.4	1444.5	1441.4	1444.5	1446.4	1455.1	1459.5	1464.0	1467.7
7.5°	1334.8	1327.3	1326.2	1318.8	1326.2	1327.3	1334.8	1339.0	1347.7	1357.6	1366.6
10°	1253.4	1248.4	1247.7	1235.8	1247.7	1248.4	1253.4	1264.0	1272.8	1284.6	1297.1
12.5°	1191.4	1179.4	1181.8	1174.8	1181.8	1179.4	1191.4	1191.5	1201.8	1209.1	1228.7
15°	1084.0	1084.0	1081.6	1070.9	1081.6	1084.0	1084.0	1100.9	1104.0	1115.9	1132.8
17.5°	1007.0	1005.7	999.7	1002.7	999.7	1005.7	1007.0	1019.3	1021.4	1037.3	1051.2
20°	960.9	957.2	949.7	949.7	949.7	957.2	960.9	967.8	975.9	985.3	997.2
22.5°	917.5	917.2	909.2	911.7	909.2	917.2	917.5	923.8	931.5	941.8	951.7
25°	866.6	861.6	857.9	859.7	857.9	861.6	866.6	867.2	876.0	882.9	889.1
27.5°	818.4	815.6	815.4	810.2	815.4	815.6	818.4	820.0	825.0	829.0	834.9
30°	790.4	784.2	785.4	782.3	785.4	784.2	790.4	791.0	793.5	796.0	802.9
32.5°	758.4	756.1	754.9	752.3	754.9	756.1	758.4	759.5	764.5	767.0	772.4
35°	714.8	715.4	712.2	713.5	712.2	715.4	714.8	716.0	716.6	719.2	724.1
37.5°	676.7	678.7	677.2	677.5	677.2	678.7	676.7	677.3	677.9	678.3	679.8
40°	651.7	651.7	651.7	653.5	651.7	651.7	651.7	649.8	650.4	649.8	649.8
42.5°	627.7	626.7	625.7	625.6	625.7	626.7	627.7	623.3	625.4	623.3	622.3
45°	586.7	588.6	589.2	586.0	589.2	588.6	586.7	585.5	583.6	582.9	582.3
47.5°	549.6	549.8	549.6	552.4	549.6	549.8	549.6	548.0	545.1	544.0	541.0
50°	523.6	522.4	523.6	522.4	523.6	522.4	523.6	520.5	518.6	515.4	513.0
52.5°	496.1	496.4	495.6	495.4	495.6	496.4	496.1	492.0	491.1	490.0	486.0
55°	453.0	454.2	453.6	453.6	453.6	454.2	453.0	450.5	449.9	446.1	442.4
57.5°	408.4	409.5	410.3	407.6	410.3	409.5	408.4	408.0	407.6	403.7	399.7
60°	377.4	380.5	379.8	378.6	379.8	380.5	377.4	378.0	376.1	373.7	371.1
62.5°	348.9	350.0	349.9	349.7	349.9	350.0	348.9	346.0	345.1	342.7	340.1
65°	304.9	306.1	304.3	306.1	304.3	306.1	304.9	303.0	298.6	297.4	294.9
67.5°	257.6	258.0	259.3	260.2	259.3	258.0	257.6	258.3	255.4	253.1	252.6
70°	228.0	227.5	229.3	231.2	229.3	227.5	228.0	226.8	224.9	223.1	220.5
72.5°	197.1	198.4	197.8	199.2	197.8	198.4	197.1	197.3	195.4	193.1	190.5
75°	151.8	153.7	153.1	155.0	153.1	153.7	151.8	153.1	151.8	149.4	146.8
77.5°	109.7	110.0	109.7	110.7	109.7	110.0	109.7	110.7	109.3	110.2	107.4
80°	83.7	82.5	81.2	83.7	81.2	82.5	83.7	83.7	81.9	83.7	81.9
82.5°	58.2	58.9	57.7	57.7	57.7	58.9	58.2	59.8	58.9	59.8	57.9
85°	26.9	26.3	25.0	25.0	25.0	26.3	26.9	26.9	28.8	27.5	27.5
87.5°	9.2	8.8	8.8	8.3	8.8	8.8	9.2	9.2	9.2	10.3	10.4
90°	21.3	21.4	21.5	21.7	21.5	21.4	21.3	21.1	21.2	21.4	21.8
92.5°	20.5	20.6	20.6	20.6	20.6	20.6	20.5	20.5	20.5	20.5	20.4
95°	40.4	40.1	39.8	39.5	39.8	40.1	40.4	40.7	40.8	40.8	40.8
97.5°	68.6	68.5	68.5	68.4	68.5	68.5	68.6	68.6	68.6	68.6	68.6
100°	87.7	87.6	87.5	87.3	87.5	87.6	87.7	87.9	88.0	88.0	88.0
102.5°	109.2	109.0	108.8	108.7	108.8	109.0	109.2	109.3	109.3	109.2	109.1
105°	141.5	141.5	141.5	141.5	141.5	141.5	141.5	141.5	141.4	141.0	140.8
107.5°	174.3	173.7	173.0	172.4	173.0	173.7	174.3	175.0	175.2	175.0	175.0
110°	197.5	197.1	196.7	196.2	196.7	197.1	197.5	198.0	198.2	198.2	198.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	220.1	219.8	219.6	219.2	219.6	219.8	220.1	220.5	220.8	221.1	221.4
115°	256.2	255.8	255.4	254.9	255.4	255.8	256.2	256.6	256.9	257.1	257.1
117.5°	290.2	289.8	289.3	288.9	289.3	289.8	290.2	290.7	291.0	291.4	291.7
120°	314.1	313.7	313.3	312.9	313.3	313.7	314.1	314.6	314.8	314.8	314.8
122.5°	337.3	337.0	336.6	336.4	336.6	337.0	337.3	337.6	337.9	338.3	338.6
125°	372.6	372.4	372.3	372.2	372.3	372.4	372.6	372.8	373.0	373.4	373.9
127.5°	406.2	405.7	405.3	404.8	405.3	405.7	406.2	406.6	407.1	407.6	408.1
130°	429.9	429.4	428.8	428.3	428.8	429.4	429.9	430.5	431.0	431.2	431.5
132.5°	452.0	451.6	451.1	450.7	451.1	451.6	452.0	452.5	453.1	453.6	454.3
135°	486.9	486.5	486.0	485.6	486.0	486.5	486.9	487.3	487.5	487.7	487.9
137.5°	518.9	518.4	517.8	517.2	517.8	518.4	518.9	519.5	519.8	519.9	520.1
140°	540.9	540.3	539.7	539.2	539.7	540.3	540.9	541.4	541.7	541.7	541.7
142.5°	560.7	560.1	559.6	559.1	559.6	560.1	560.7	561.3	561.5	561.4	561.3
145°	590.5	590.0	589.4	588.8	589.4	590.0	590.5	591.1	591.3	591.2	591.0
147.5°	617.1	616.5	616.0	615.5	616.0	616.5	617.1	617.7	617.8	617.4	617.1
150°	634.1	633.7	633.2	632.8	633.2	633.7	634.1	634.5	634.5	634.1	633.7
152.5°	650.8	650.2	649.6	649.1	649.6	650.2	650.8	651.3	651.3	650.8	650.2
155°	672.3	671.9	671.5	671.1	671.5	671.9	672.3	672.8	672.6	671.9	671.2
157.5°	691.9	691.3	690.6	689.9	690.6	691.3	691.9	692.6	692.5	691.5	690.6
160°	703.4	702.8	702.2	701.6	702.2	702.8	703.4	703.9	703.8	703.0	702.1
162.5°	713.9	713.2	712.5	711.8	712.5	713.2	713.9	714.5	714.4	713.5	712.5
165°	727.3	726.6	725.9	725.2	725.9	726.6	727.3	728.1	727.9	726.9	725.9
167.5°	738.4	737.7	736.9	736.2	736.9	737.7	738.4	739.2	739.0	738.0	737.0
170°	744.4	743.5	742.7	741.8	742.7	743.5	744.4	745.2	745.1	744.1	743.1
172.5°	748.9	748.0	747.2	746.4	747.2	748.0	748.9	749.7	749.7	748.7	747.7
175°	753.9	753.0	752.2	751.4	752.2	753.0	753.9	754.7	754.6	753.7	752.7
177.5°	755.7	755.0	754.3	753.7	754.3	755.0	755.7	756.4	756.4	755.7	755.0
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1562.3	1567.7	1576.3	1585.3	1590.7	1601.2	1604.3	1609.2	1613.7	1624.2	1635.2
5°	1472.0	1480.8	1501.4	1512.6	1528.3	1546.4	1558.3	1570.8	1584.5	1608.3	1630.1
7.5°	1375.3	1389.9	1415.5	1436.6	1458.8	1484.8	1503.5	1528.3	1548.7	1582.3	1614.2
10°	1310.8	1331.5	1354.6	1379.6	1410.8	1438.3	1464.5	1495.7	1520.8	1560.7	1598.2
12.5°	1252.9	1256.0	1289.1	1316.6	1359.3	1393.3	1423.6	1463.8	1488.2	1535.8	1575.2
15°	1151.5	1170.3	1200.3	1222.1	1272.8	1315.8	1358.3	1400.2	1428.3	1487.0	1538.9
17.5°	1066.2	1083.5	1114.2	1150.0	1186.3	1229.2	1284.3	1328.4	1366.6	1433.7	1495.0
20°	1012.2	1033.4	1064.7	1101.6	1133.4	1180.2	1227.8	1278.4	1319.6	1395.2	1467.0
22.5°	966.2	982.9	1008.2	1044.6	1079.4	1122.3	1174.3	1229.4	1272.6	1354.2	1427.0
25°	901.6	915.3	931.6	961.6	1000.9	1047.8	1088.4	1149.0	1212.1	1288.3	1376.5
27.5°	843.3	853.1	867.5	893.8	924.3	968.2	1013.3	1070.8	1134.2	1217.0	1309.9
30°	807.9	814.2	828.5	850.4	880.4	914.7	960.3	1015.3	1080.3	1164.0	1256.5
32.5°	776.9	782.6	792.0	812.9	838.9	868.2	909.3	964.3	1026.3	1108.6	1211.0
35°	730.4	734.7	742.9	759.8	774.1	802.9	837.2	887.2	945.3	1024.1	1130.2
37.5°	684.0	690.1	695.0	702.1	720.6	739.6	769.4	811.6	868.6	948.1	1049.3
40°	653.5	658.5	666.0	669.2	684.2	701.0	725.4	764.1	821.7	894.1	992.8
42.5°	622.6	627.5	632.0	635.7	648.7	663.6	685.4	718.7	769.6	840.1	937.8
45°	580.4	581.1	585.5	592.3	598.6	609.2	624.8	653.5	692.9	759.1	847.8
47.5°	537.7	538.4	539.2	542.2	549.1	558.7	569.1	592.5	627.7	680.5	766.9
50°	509.2	507.9	509.2	511.7	516.1	524.2	536.1	552.9	581.7	631.0	710.4
52.5°	481.8	481.5	480.7	481.8	485.1	490.7	499.1	513.5	539.2	584.6	654.4
55°	439.9	436.8	437.3	434.9	440.5	441.7	448.0	459.8	482.3	513.6	579.2
57.5°	395.3	392.6	389.9	389.1	388.7	392.0	397.0	406.3	423.6	451.0	504.2
60°	366.7	363.6	359.9	358.7	358.7	360.5	363.1	369.9	386.1	410.5	454.2
62.5°	337.8	334.1	331.9	328.6	327.7	329.5	332.0	336.9	348.6	371.5	409.3
65°	293.0	288.7	285.5	284.9	283.6	281.8	283.1	288.0	297.4	315.5	345.5
67.5°	248.2	244.0	243.3	239.7	237.9	238.1	237.9	242.1	247.8	263.4	285.8
70°	218.7	215.6	214.3	211.2	209.9	208.7	207.4	211.2	216.8	229.9	249.3
72.5°	188.7	186.1	183.3	180.7	180.9	179.7	179.4	181.7	186.3	198.4	213.3
75°	145.6	146.2	143.1	140.0	139.3	138.1	138.1	140.0	141.9	151.2	163.1
77.5°	105.6	105.1	102.5	101.5	100.9	99.5	100.9	102.1	103.1	109.3	118.1
80°	80.6	80.6	77.5	77.5	76.9	75.0	76.9	75.6	78.1	84.4	90.6
82.5°	57.6	56.6	56.5	55.5	55.4	54.0	54.9	56.1	57.1	61.4	65.1
85°	28.1	28.1	27.5	26.9	27.5	26.9	27.5	28.1	28.8	30.7	33.8
87.5°	10.4	10.9	10.8	10.7	10.1	9.9	9.9	10.1	10.8	10.9	11.1
90°	22.0	22.3	19.2	16.1	13.0	9.9	7.4	5.7	4.1	2.4	0.7
92.5°	20.3	20.3	19.6	18.8	18.0	17.3	16.3	15.1	13.9	12.6	11.3
95°	40.8	40.8	40.5	40.2	39.9	39.6	38.8	37.4	36.0	34.6	33.1
97.5°	68.6	68.6	68.0	67.5	66.9	66.4	65.6	64.2	63.0	61.8	60.6
100°	88.0	88.0	87.5	87.1	86.7	86.3	85.4	84.3	83.2	82.1	81.0
102.5°	108.9	108.8	108.3	107.8	107.2	106.7	106.0	105.1	104.2	103.2	102.3
105°	140.5	140.2	139.9	139.7	139.3	139.1	138.7	138.3	137.9	137.5	137.1
107.5°	174.9	174.7	174.7	174.7	174.7	174.7	174.4	173.8	173.2	172.6	171.9
110°	198.2	198.2	198.2	198.2	198.2	198.2	197.8	196.9	196.1	195.2	194.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	221.8	222.2	222.3	222.4	222.5	222.6	222.3	221.4	220.5	219.7	218.8
115°	257.3	257.5	257.7	258.0	258.3	258.6	258.3	257.5	256.6	255.8	254.9
117.5°	292.0	292.4	293.2	294.0	294.7	295.5	295.4	294.2	293.1	292.0	290.8
120°	314.8	314.8	315.9	317.1	318.2	319.4	319.4	318.2	317.1	315.9	314.8
122.5°	338.9	339.2	340.1	340.9	341.7	342.4	342.2	340.8	339.5	338.1	336.7
125°	374.3	374.7	375.1	375.5	376.0	376.4	376.0	374.7	373.4	372.2	370.9
127.5°	408.6	409.1	409.6	410.2	410.7	411.2	410.6	409.0	407.4	405.8	404.1
130°	431.8	432.1	432.4	432.6	432.9	433.2	432.4	430.6	428.8	426.9	425.1
132.5°	454.9	455.5	455.4	455.4	455.3	455.3	454.5	453.0	451.5	450.0	448.5
135°	488.0	488.1	487.9	487.5	487.3	487.0	486.1	484.5	483.0	481.4	479.9
137.5°	520.2	520.2	519.9	519.5	519.2	518.8	518.0	516.7	515.4	514.1	512.9
140°	541.7	541.7	541.0	540.3	539.6	538.8	537.9	536.5	535.3	534.0	532.8
142.5°	561.2	561.1	560.6	560.1	559.6	559.1	558.2	557.0	555.7	554.4	553.2
145°	590.9	590.8	589.9	589.1	588.2	587.3	586.4	585.5	584.5	583.4	582.4
147.5°	616.8	616.5	616.0	615.4	614.8	614.2	613.3	612.1	611.0	609.8	608.6
150°	633.2	632.8	632.3	631.7	631.1	630.6	629.8	629.0	628.1	627.3	626.5
152.5°	649.6	649.1	648.4	647.8	647.1	646.4	645.6	644.8	643.9	643.1	642.2
155°	670.5	669.8	669.4	669.0	668.5	668.1	667.6	667.2	666.8	666.3	665.9
157.5°	689.6	688.6	688.4	688.1	687.9	687.6	687.4	687.1	686.8	686.5	686.2
160°	701.2	700.3	700.3	700.1	699.9	699.8	699.6	699.3	699.0	698.7	698.5
162.5°	711.5	710.5	710.5	710.3	710.1	710.0	709.9	709.8	709.8	709.7	709.6
165°	725.0	723.9	723.9	723.9	723.9	723.9	724.0	724.1	724.3	724.5	724.6
167.5°	736.1	735.0	735.1	735.1	735.2	735.2	735.4	735.8	736.2	736.6	737.0
170°	742.2	741.1	741.3	741.4	741.6	741.7	742.0	742.4	742.8	743.3	743.7
172.5°	746.7	745.8	745.9	746.0	746.2	746.3	746.6	747.0	747.5	747.9	748.3
175°	751.7	750.7	751.0	751.3	751.5	751.9	752.2	752.6	753.0	753.5	753.9
177.5°	754.3	753.7	753.8	754.1	754.3	754.6	754.8	755.1	755.5	755.9	756.2
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1634.3	1636.7	1644.7	1652.8	1661.7	1664.3	1668.3	1664.8	1663.7	1673.2	1680.3
5°	1638.8	1650.1	1672.0	1692.0	1708.9	1720.7	1733.2	1738.2	1747.6	1760.7	1776.9
7.5°	1633.6	1655.5	1689.9	1719.0	1750.7	1773.6	1791.5	1806.7	1825.2	1850.1	1877.1
10°	1627.6	1657.0	1698.8	1734.5	1773.2	1802.5	1826.9	1850.6	1878.2	1912.5	1948.2
12.5°	1616.7	1651.5	1703.8	1746.0	1795.7	1824.6	1857.4	1908.7	1938.1	1986.0	2036.1
15°	1594.5	1633.2	1706.3	1758.2	1814.4	1869.4	1930.1	1978.7	2027.5	2055.6	2126.2
17.5°	1561.6	1618.5	1699.5	1760.0	1831.4	1918.0	1986.2	2041.3	2097.6	2143.2	2178.6
20°	1535.1	1597.0	1689.5	1761.9	1846.9	1940.0	2018.1	2074.4	2123.1	2161.2	2183.0
22.5°	1501.6	1579.5	1669.5	1754.4	1863.0	1955.0	2037.1	2081.4	2122.1	2140.7	2149.0
25°	1448.9	1542.6	1644.5	1748.2	1870.7	1968.1	2043.1	2070.0	2081.9	2063.8	2033.8
27.5°	1392.0	1496.6	1615.6	1736.4	1865.9	1959.7	2013.4	2009.1	1989.0	1930.4	1883.5
30°	1349.6	1464.5	1592.6	1724.4	1854.4	1945.6	1976.9	1945.6	1900.1	1834.4	1767.6
32.5°	1305.1	1424.1	1568.1	1707.5	1833.4	1913.7	1920.4	1866.7	1796.1	1721.5	1638.1
35°	1237.7	1366.4	1522.0	1669.5	1788.8	1839.4	1809.5	1714.5	1630.8	1528.9	1415.2
37.5°	1161.6	1303.7	1459.8	1613.9	1722.0	1735.2	1660.8	1560.7	1442.7	1323.0	1189.1
40°	1104.6	1255.2	1415.8	1571.4	1667.0	1653.3	1558.3	1448.3	1307.7	1161.5	1037.1
42.5°	1053.7	1204.3	1367.8	1520.4	1597.0	1559.3	1448.3	1313.4	1162.3	1024.6	910.7
45°	965.3	1120.3	1287.8	1435.2	1479.0	1410.8	1264.0	1114.0	965.3	850.4	760.4
47.5°	879.6	1032.8	1198.7	1328.2	1343.7	1252.1	1091.7	937.3	809.5	715.9	652.4
50°	816.6	970.3	1134.7	1250.3	1245.2	1134.7	969.7	822.9	716.0	640.4	597.9
52.5°	760.1	905.3	1063.2	1168.2	1141.7	1021.2	863.7	733.4	645.6	586.4	548.0
55°	672.3	806.7	956.6	1040.9	992.2	858.5	725.4	620.4	555.5	511.1	481.1
57.5°	585.1	711.0	839.4	891.4	837.5	714.0	603.1	526.9	478.1	445.2	425.7
60°	531.1	641.1	755.4	800.4	736.1	626.1	538.6	470.5	431.1	404.2	386.8
62.5°	477.1	575.6	683.4	707.9	649.1	556.1	478.6	422.0	389.6	365.7	349.3
65°	403.7	484.2	566.1	582.3	528.0	456.1	394.8	358.0	329.3	311.8	298.6
67.5°	331.0	395.7	453.7	466.8	419.2	369.4	325.1	293.0	273.5	259.0	247.9
70°	288.0	339.2	386.8	397.4	359.3	314.9	281.2	255.5	238.1	225.6	214.9
72.5°	242.6	285.3	324.7	331.9	300.8	266.9	239.2	219.1	203.6	195.6	185.5
75°	185.6	210.6	241.2	243.0	222.4	201.8	180.6	167.5	159.3	149.4	144.3
77.5°	130.9	150.6	168.0	171.5	159.2	145.2	133.3	122.9	116.1	111.5	106.8
80°	100.0	115.6	123.1	127.4	118.7	108.7	101.8	95.0	90.6	87.5	84.4
82.5°	71.5	81.1	88.1	91.5	86.7	80.7	73.9	70.0	66.6	64.0	62.9
85°	36.2	40.6	45.0	46.2	45.0	42.5	38.7	38.7	36.9	36.2	36.2
87.5°	13.0	15.3	15.7	17.4	17.0	17.6	18.2	18.3	18.4	17.9	17.4
90°	2.4	4.1	5.7	7.4	9.9	13.0	16.1	19.2	22.3	22.0	21.8
92.5°	12.6	13.9	15.1	16.3	17.3	18.0	18.8	19.6	20.3	20.3	20.4
95°	34.6	36.0	37.4	38.8	39.6	39.9	40.2	40.5	40.8	40.8	40.8
97.5°	61.8	63.0	64.2	65.6	66.4	66.9	67.5	68.0	68.6	68.6	68.6
100°	82.1	83.2	84.3	85.4	86.3	86.7	87.1	87.5	88.0	88.0	88.0
102.5°	103.2	104.2	105.1	106.0	106.7	107.2	107.8	108.3	108.8	108.9	109.1
105°	137.5	137.9	138.3	138.7	139.1	139.3	139.7	139.9	140.2	140.5	140.8
107.5°	172.6	173.2	173.8	174.4	174.7	174.7	174.7	174.7	174.7	174.9	175.0
110°	195.2	196.1	196.9	197.8	198.2	198.2	198.2	198.2	198.2	198.2	198.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	219.7	220.5	221.4	222.3	222.6	222.5	222.4	222.3	222.2	221.8	221.4
115°	255.8	256.6	257.5	258.3	258.6	258.3	258.0	257.7	257.5	257.3	257.1
117.5°	292.0	293.1	294.2	295.4	295.5	294.7	294.0	293.2	292.4	292.0	291.7
120°	315.9	317.1	318.2	319.4	319.4	318.2	317.1	315.9	314.8	314.8	314.8
122.5°	338.1	339.5	340.8	342.2	342.4	341.7	340.9	340.1	339.2	338.9	338.6
125°	372.2	373.4	374.7	376.0	376.4	376.0	375.5	375.1	374.7	374.3	373.9
127.5°	405.8	407.4	409.0	410.6	411.2	410.7	410.2	409.6	409.1	408.6	408.1
130°	426.9	428.8	430.6	432.4	433.2	432.9	432.6	432.4	432.1	431.8	431.5
132.5°	450.0	451.5	453.0	454.5	455.3	455.3	455.4	455.4	455.5	454.9	454.3
135°	481.4	483.0	484.5	486.1	487.0	487.3	487.5	487.9	488.1	488.0	487.9
137.5°	514.1	515.4	516.7	518.0	518.8	519.2	519.5	519.9	520.2	520.2	520.1
140°	534.0	535.3	536.5	537.9	538.8	539.6	540.3	541.0	541.7	541.7	541.7
142.5°	554.4	555.7	557.0	558.2	559.1	559.6	560.1	560.6	561.1	561.2	561.3
145°	583.4	584.5	585.5	586.4	587.3	588.2	589.1	589.9	590.8	590.9	591.0
147.5°	609.8	611.0	612.1	613.3	614.2	614.8	615.4	616.0	616.5	616.8	617.1
150°	627.3	628.1	629.0	629.8	630.6	631.1	631.7	632.3	632.8	633.2	633.7
152.5°	643.1	643.9	644.8	645.6	646.4	647.1	647.8	648.4	649.1	649.6	650.2
155°	666.3	666.8	667.2	667.6	668.1	668.5	669.0	669.4	669.8	670.5	671.2
157.5°	686.5	686.8	687.1	687.4	687.6	687.9	688.1	688.4	688.6	689.6	690.6
160°	698.7	699.0	699.3	699.6	699.8	699.9	700.1	700.3	700.3	701.2	702.1
162.5°	709.7	709.8	709.8	709.9	710.0	710.1	710.3	710.5	710.5	711.5	712.5
165°	724.5	724.3	724.1	724.0	723.9	723.9	723.9	723.9	723.9	725.0	725.9
167.5°	736.6	736.2	735.8	735.4	735.2	735.2	735.1	735.1	735.0	736.1	737.0
170°	743.3	742.8	742.4	742.0	741.7	741.6	741.4	741.3	741.1	742.2	743.1
172.5°	747.9	747.5	747.0	746.6	746.3	746.2	746.0	745.9	745.8	746.7	747.7
175°	753.5	753.0	752.6	752.2	751.9	751.5	751.3	751.0	750.7	751.7	752.7
177.5°	755.9	755.5	755.1	754.8	754.6	754.3	754.1	753.8	753.7	754.3	755.0
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1686.2	1693.2	1693.2	1694.2	1702.2	1701.2	1700.7
5°	1794.5	1805.1	1806.3	1817.5	1825.0	1822.5	1815.7
7.5°	1896.5	1916.3	1931.3	1939.7	1949.5	1955.7	1952.9
10°	1977.5	2006.3	2023.7	2035.6	2050.0	2060.6	2056.8
12.5°	2051.0	2085.2	2109.3	2129.6	2131.4	2145.1	2135.8
15°	2165.6	2201.8	2205.5	2220.5	2232.5	2231.1	2231.8
17.5°	2203.4	2215.1	2217.5	2217.8	2217.9	2213.5	2204.1
20°	2190.0	2185.6	2175.0	2166.8	2152.5	2150.6	2138.1
22.5°	2126.0	2112.1	2085.5	2067.8	2045.5	2039.6	2036.1
25°	2000.0	1969.4	1926.9	1886.3	1875.0	1853.2	1859.5
27.5°	1827.2	1779.5	1733.5	1700.5	1670.6	1637.9	1647.2
30°	1705.7	1652.0	1587.0	1537.0	1505.1	1473.9	1468.3
32.5°	1560.7	1482.1	1409.6	1365.5	1316.7	1297.0	1275.4
35°	1310.8	1234.0	1162.1	1100.2	1064.7	1037.1	1012.2
37.5°	1086.1	997.6	939.6	889.5	863.7	848.0	852.0
40°	946.6	869.1	826.6	788.5	764.8	753.5	756.0
42.5°	833.6	775.6	740.6	714.5	697.8	691.5	690.1
45°	705.4	672.9	644.2	629.2	621.1	614.2	609.8
47.5°	617.9	591.4	575.2	566.3	559.2	552.2	552.0
50°	565.4	548.0	536.7	527.3	521.7	516.7	521.1
52.5°	525.5	509.5	498.2	489.8	487.7	483.2	483.1
55°	466.1	453.6	445.5	438.0	434.2	431.7	428.6
57.5°	412.1	400.2	392.7	388.0	380.9	378.4	377.4
60°	373.7	364.3	356.8	350.5	347.4	342.4	342.4
62.5°	338.1	328.8	321.8	317.0	311.9	309.9	310.4
65°	286.8	279.3	272.4	267.4	266.2	262.4	263.7
67.5°	239.5	234.6	227.3	224.5	222.2	220.2	218.7
70°	208.1	203.1	199.3	195.6	193.7	193.7	193.7
72.5°	181.6	175.5	173.3	168.6	169.7	167.7	165.7
75°	140.6	136.8	134.9	133.1	130.0	130.0	130.0
77.5°	103.5	102.3	100.1	98.1	97.3	96.7	96.9
80°	80.0	79.3	78.1	78.1	76.9	76.2	75.0
82.5°	61.5	59.8	59.1	58.6	58.4	58.2	58.0
85°	35.0	33.8	33.8	34.3	33.1	33.1	33.8
87.5°	17.8	17.7	17.2	17.3	17.8	17.3	17.4
90°	21.4	21.2	21.1	21.3	21.4	21.5	21.7
92.5°	20.5	20.5	20.5	20.5	20.6	20.6	20.6
95°	40.8	40.8	40.7	40.4	40.1	39.8	39.5
97.5°	68.6	68.6	68.6	68.6	68.5	68.5	68.4
100°	88.0	88.0	87.9	87.7	87.6	87.5	87.3
102.5°	109.2	109.3	109.3	109.2	109.0	108.8	108.7
105°	141.0	141.4	141.5	141.5	141.5	141.5	141.5
107.5°	175.0	175.2	175.0	174.3	173.7	173.0	172.4
110°	198.2	198.2	198.0	197.5	197.1	196.7	196.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	221.1	220.8	220.5	220.1	219.8	219.6	219.2
115°	257.1	256.9	256.6	256.2	255.8	255.4	254.9
117.5°	291.4	291.0	290.7	290.2	289.8	289.3	288.9
120°	314.8	314.8	314.6	314.1	313.7	313.3	312.9
122.5°	338.3	337.9	337.6	337.3	337.0	336.6	336.4
125°	373.4	373.0	372.8	372.6	372.4	372.3	372.2
127.5°	407.6	407.1	406.6	406.2	405.7	405.3	404.8
130°	431.2	431.0	430.5	429.9	429.4	428.8	428.3
132.5°	453.6	453.1	452.5	452.0	451.6	451.1	450.7
135°	487.7	487.5	487.3	486.9	486.5	486.0	485.6
137.5°	519.9	519.8	519.5	518.9	518.4	517.8	517.2
140°	541.7	541.7	541.4	540.9	540.3	539.7	539.2
142.5°	561.4	561.5	561.3	560.7	560.1	559.6	559.1
145°	591.2	591.3	591.1	590.5	590.0	589.4	588.8
147.5°	617.4	617.8	617.7	617.1	616.5	616.0	615.5
150°	634.1	634.5	634.5	634.1	633.7	633.2	632.8
152.5°	650.8	651.3	651.3	650.8	650.2	649.6	649.1
155°	671.9	672.6	672.8	672.3	671.9	671.5	671.1
157.5°	691.5	692.5	692.6	691.9	691.3	690.6	689.9
160°	703.0	703.8	703.9	703.4	702.8	702.2	701.6
162.5°	713.5	714.4	714.5	713.9	713.2	712.5	711.8
165°	726.9	727.9	728.1	727.3	726.6	725.9	725.2
167.5°	738.0	739.0	739.2	738.4	737.7	736.9	736.2
170°	744.1	745.1	745.2	744.4	743.5	742.7	741.8
172.5°	748.7	749.7	749.7	748.9	748.0	747.2	746.4
175°	753.7	754.6	754.7	753.9	753.0	752.2	751.4
177.5°	755.7	756.4	756.4	755.7	755.0	754.3	753.7
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1

(END OF REPORT)