

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: P332670-927

Luminaire Tested: **SA4XXDIP-C1195D365U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332670-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1195D365U927-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

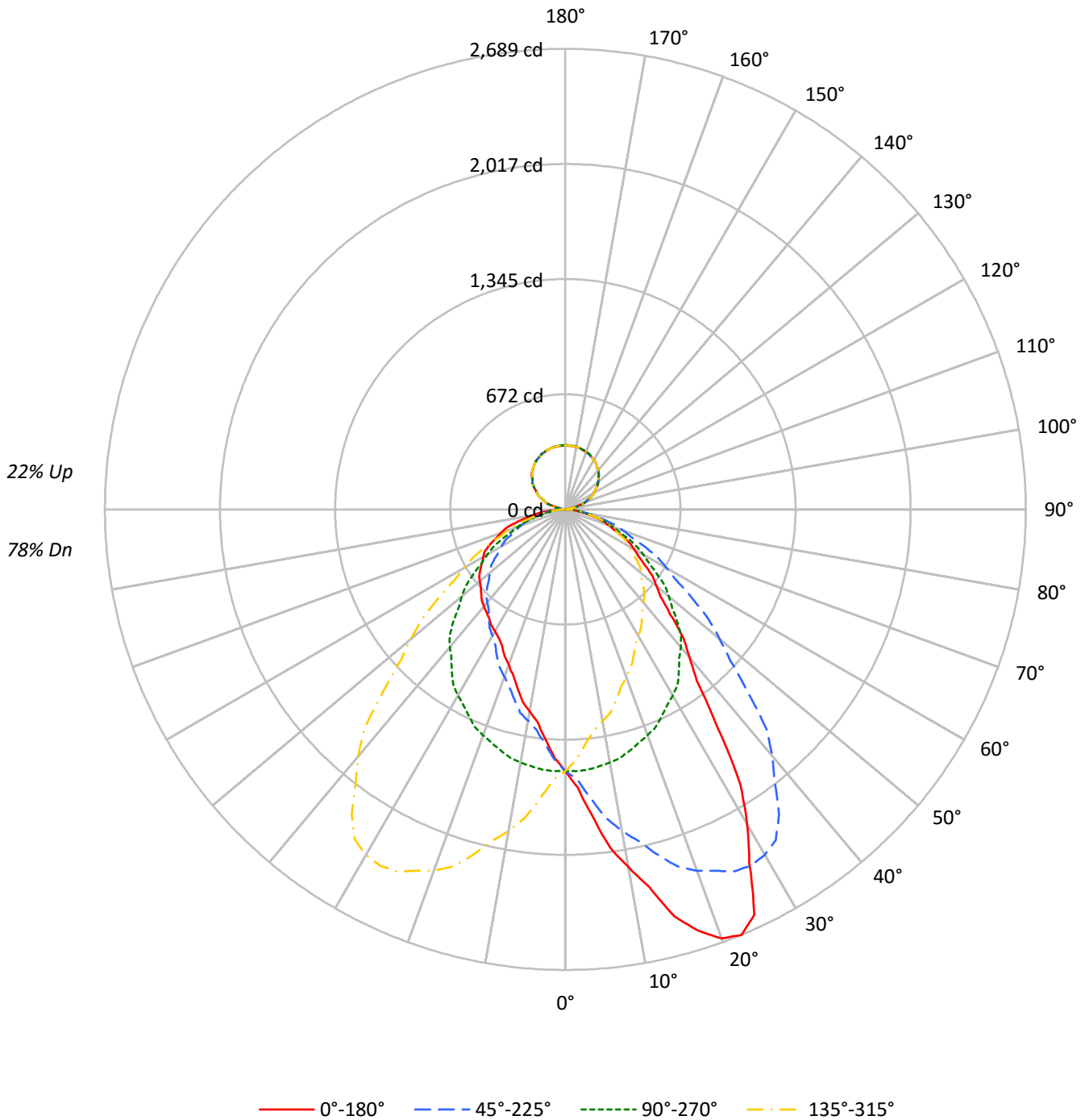
Lumens per Lamp: N/A
Luminaire Lumens: 5371.5 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.8
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	114	114	114	114	109	109	109	109	99	99	99	99	90	90	90	82	82	82	78
1	104	100	96	93	100	96	92	89	88	85	82	82	80	78	76	73	72	70	67
2	95	88	82	76	91	84	79	74	77	73	69	69	71	67	64	65	62	60	56
3	87	78	70	64	83	74	68	62	69	63	58	63	63	59	55	58	54	51	48
4	80	69	61	55	76	66	59	53	61	55	50	61	56	51	47	52	48	44	42
5	74	62	54	47	70	60	52	46	55	49	44	51	51	46	41	47	43	39	36
6	68	56	47	41	65	54	46	40	50	43	38	46	46	41	36	43	38	35	32
7	63	51	42	37	60	49	41	36	45	39	34	42	42	37	32	39	34	31	29
8	59	46	38	33	56	45	37	32	42	35	31	39	39	33	29	36	31	28	26
9	55	42	35	29	53	41	34	29	38	32	28	36	36	30	26	33	29	25	23
10	52	39	32	27	49	38	31	26	35	29	25	33	33	28	24	31	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12327	12327	12327	12327
5°	14515	12358	10907	12358
10°	17379	12304	9820	12304
15°	20563	12179	9018	12179
20°	22898	12052	8303	12052
25°	23267	11866	7808	11866
30°	19799	11686	7652	11686
35°	15221	11395	7655	11395
40°	11864	11052	7798	11052
45°	9893	10535	7929	10535
50°	8706	9905	8199	9905
55°	7976	9151	8528	9151
60°	7476	8477	8925	8477
65°	6959	7721	9255	7721
70°	6359	6973	9465	6973
75°	5680	6135	9351	6135
80°	4761	5026	9056	5026
85°	3511	3631	8670	3631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	2.8
10°-20°	458.5	8.5
20°-30°	727.0	13.5
30°-40°	809.1	15.1
40°-50°	736.5	13.7
50°-60°	601.9	11.2
60°-70°	429.7	8.0
70°-80°	236.6	4.4
80°-90°	65.7	1.2
90°-100°	12.8	0.2
100°-110°	81.6	1.5
110°-120°	156.1	2.9
120°-130°	198.2	3.7
130°-140°	212.1	3.9
140°-150°	198.3	3.7
150°-160°	159.9	3.0
160°-170°	103.2	1.9
170°-180°	35.6	0.7
0°-30°	1334.3	24.8
0°-40°	2143.4	39.9
0°-60°	3481.7	64.8
0°-90°	4213.6	78.4
90°-120°	250.6	4.7
90°-150°	859.2	16.0
90°-180°	1158.0	21.6
0°-180°	5371.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1527	1527	1527	1527	1527	
5°	1791	1525	1346	1525	1791	182
15°	2460	1457	1079	1457	2460	695
25°	2612	1332	877	1332	2612	1152
35°	1544	1156	777	1156	1544	980
45°	866	923	694	923	866	683
55°	567	650	606	650	567	512
65°	364	404	484	404	364	361
75°	182	197	300	197	182	194
85°	38	39	94	39	38	46
90°	8	1	8	1	8	5
95°	8	15	8	15	8	6
105°	80	84	80	84	80	70
115°	158	157	158	157	158	157
125°	223	221	223	221	223	198
135°	276	274	276	274	276	213
145°	318	316	318	316	318	199
155°	347	347	347	347	347	160
165°	364	366	364	366	364	103
175°	372	374	372	374	372	35
180°	374	374	374	374	374	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1625.0	1624.4	1619.5	1618.4	1614.9	1610.3	1609.3	1601.2	1585.0	1577.4	1575.4
5°	1791.2	1803.9	1787.4	1784.2	1782.3	1761.5	1750.7	1738.0	1709.0	1691.9	1678.6
7.5°	1989.6	1991.1	1983.9	1978.1	1962.0	1943.8	1916.4	1887.4	1852.7	1816.6	1789.5
10°	2120.1	2125.2	2116.9	2115.7	2083.4	2063.2	2022.7	1988.5	1949.3	1905.7	1865.8
12.5°	2257.7	2250.7	2246.5	2219.4	2213.4	2176.5	2129.5	2094.3	2033.8	1983.6	1930.6
15°	2460.4	2446.5	2437.6	2400.3	2381.9	2330.7	2280.8	2242.2	2163.1	2087.9	2030.9
17.5°	2579.3	2593.2	2572.7	2557.4	2510.0	2474.1	2423.0	2342.0	2280.1	2186.7	2114.8
20°	2665.3	2666.6	2655.2	2639.4	2602.1	2556.5	2500.8	2412.3	2338.3	2245.4	2146.7
22.5°	2688.6	2688.8	2684.0	2669.3	2641.0	2604.1	2547.9	2474.1	2384.4	2283.3	2184.6
25°	2612.1	2609.6	2615.3	2631.8	2621.0	2609.6	2577.4	2522.4	2438.9	2331.9	2225.7
27.5°	2328.3	2345.7	2377.9	2418.4	2457.3	2487.1	2495.5	2484.1	2432.4	2344.5	2233.2
30°	2123.9	2145.4	2169.5	2209.9	2288.4	2333.2	2382.6	2419.9	2399.0	2328.9	2225.1
32.5°	1899.3	1904.6	1940.2	1986.2	2058.1	2144.5	2222.7	2298.4	2323.6	2286.8	2200.3
35°	1544.5	1553.4	1592.0	1637.5	1725.5	1831.1	1948.7	2053.7	2140.3	2175.1	2130.8
37.5°	1260.4	1285.9	1313.0	1362.0	1439.4	1534.5	1656.8	1792.6	1921.8	2008.3	2022.9
40°	1125.8	1141.6	1161.3	1198.6	1264.3	1358.0	1462.9	1618.5	1755.8	1879.8	1920.2
42.5°	1019.5	1028.8	1040.8	1074.6	1124.7	1217.8	1313.7	1450.6	1588.3	1736.5	1804.4
45°	866.5	876.0	896.2	915.8	953.8	1018.3	1107.5	1220.0	1358.6	1501.5	1626.7
47.5°	756.0	762.0	774.0	795.0	827.3	869.8	942.4	1036.4	1164.8	1303.5	1437.0
50°	693.2	698.2	707.7	726.7	751.4	789.3	848.8	936.7	1037.3	1177.0	1308.0
52.5°	643.6	645.6	652.6	665.5	685.1	717.0	765.8	838.5	932.0	1056.6	1187.1
55°	566.7	569.3	575.6	585.0	602.1	622.3	659.7	714.1	795.7	903.8	1017.0
57.5°	503.4	505.3	510.6	514.2	528.2	544.7	573.4	612.3	674.1	765.8	866.9
60°	463.0	461.7	468.0	471.2	480.7	494.6	516.7	554.1	607.8	681.8	774.8
62.5°	423.5	421.8	427.1	431.3	436.7	448.5	466.7	495.9	539.5	606.4	686.7
65°	364.3	361.8	365.0	370.0	375.1	381.4	394.7	420.6	455.4	503.4	564.8
67.5°	304.8	307.5	308.0	310.5	313.5	322.1	331.1	349.5	374.1	412.5	464.5
70°	269.4	270.1	272.6	272.6	274.5	282.1	289.7	300.4	324.5	359.9	402.3
72.5°	234.0	236.7	235.7	237.7	239.1	244.2	249.7	259.9	280.4	306.7	342.5
75°	182.1	184.0	184.0	184.7	186.6	188.5	192.9	200.5	215.1	234.6	259.3
77.5°	132.8	133.1	134.0	136.3	136.3	139.3	142.6	148.6	155.8	169.3	184.3
80°	102.4	103.7	103.1	104.3	104.3	106.9	108.1	115.7	118.9	127.8	139.7
82.5°	75.2	76.4	76.3	78.0	79.1	79.5	81.4	84.4	87.5	95.4	100.3
85°	37.9	39.2	37.9	39.2	41.1	41.7	43.6	44.3	46.8	48.7	53.2
87.5°	12.8	14.3	14.3	14.7	15.8	16.2	16.6	16.1	18.0	18.5	20.4
90°	8.4	8.2	8.2	8.0	7.9	7.7	7.3	6.9	6.5	6.2	5.6
92.5°	7.8	7.7	7.7	7.7	7.6	7.4	7.1	6.7	6.3	5.9	5.5
95°	8.1	8.1	8.0	7.9	7.8	7.7	7.3	6.9	6.5	6.2	6.1
97.5°	7.8	7.8	7.7	7.7	7.6	7.5	7.5	7.4	7.4	7.4	14.3
100°	7.8	7.8	7.7	7.7	7.6	8.1	9.1	10.2	11.2	12.4	20.9
102.5°	8.1	8.1	8.0	8.0	8.0	13.7	25.1	36.5	47.9	59.3	60.4
105°	79.8	82.0	84.3	86.5	88.7	89.6	89.0	88.5	87.9	87.4	87.1
107.5°	111.2	111.0	110.7	110.5	110.3	110.0	109.7	109.5	109.2	108.9	108.4
110°	124.8	124.7	124.5	124.3	124.1	124.0	123.8	123.7	123.6	123.5	123.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	138.6	138.3	138.1	137.8	137.6	137.4	137.5	137.5	137.5	137.6	137.4
115°	158.4	158.4	158.4	158.4	158.4	158.4	158.3	158.1	158.0	157.9	158.0
117.5°	178.7	178.8	178.8	178.8	178.8	178.9	178.9	178.9	179.0	179.0	178.8
120°	191.5	191.6	191.7	191.9	192.0	192.0	191.9	191.7	191.6	191.5	191.5
122.5°	204.1	204.1	204.3	204.4	204.5	204.5	204.5	204.4	204.3	204.3	204.1
125°	222.8	222.8	222.8	222.7	222.6	222.4	222.3	222.1	221.9	221.7	221.9
127.5°	239.4	239.4	239.5	239.6	239.6	239.6	239.6	239.7	239.7	239.8	239.5
130°	250.6	250.6	250.6	250.6	250.6	250.6	250.5	250.4	250.3	250.3	250.1
132.5°	260.9	260.9	260.9	261.0	261.1	261.1	261.0	260.9	260.9	260.8	260.5
135°	276.3	276.2	276.1	275.9	275.8	275.7	275.6	275.4	275.4	275.2	275.0
137.5°	289.5	289.5	289.6	289.6	289.7	289.6	289.5	289.4	289.2	289.1	288.8
140°	298.7	298.7	298.6	298.6	298.5	298.3	298.2	297.9	297.8	297.6	297.5
142.5°	306.3	306.3	306.3	306.3	306.3	306.2	306.1	305.9	305.8	305.7	305.6
145°	318.1	317.9	317.8	317.7	317.5	317.4	317.4	317.3	317.3	317.2	317.2
147.5°	327.7	327.6	327.6	327.6	327.5	327.4	327.4	327.3	327.3	327.3	327.3
150°	334.0	333.9	333.9	333.8	333.7	333.7	333.7	333.7	333.7	333.7	333.7
152.5°	339.4	339.5	339.5	339.5	339.5	339.5	339.4	339.3	339.2	339.1	339.2
155°	346.6	346.8	347.0	347.1	347.4	347.3	347.1	346.8	346.6	346.3	346.5
157.5°	352.7	353.0	353.3	353.6	353.9	353.9	353.6	353.3	353.0	352.7	352.8
160°	356.6	357.0	357.4	357.8	358.1	358.1	357.8	357.4	357.0	356.6	356.7
162.5°	359.8	360.2	360.7	361.1	361.5	361.6	361.2	360.8	360.4	360.0	360.1
165°	364.2	364.8	365.4	365.9	366.5	366.5	366.0	365.5	365.0	364.5	364.5
167.5°	367.6	368.1	368.8	369.4	370.0	370.0	369.6	369.0	368.4	367.9	367.9
170°	369.6	370.2	370.8	371.5	372.0	372.1	371.6	371.1	370.6	370.1	370.0
172.5°	370.7	371.4	372.0	372.7	373.4	373.4	373.0	372.5	371.9	371.5	371.4
175°	372.1	372.8	373.6	374.3	375.1	375.2	374.6	374.1	373.5	372.9	372.9
177.5°	373.0	373.6	374.1	374.8	375.3	375.5	375.1	374.7	374.3	373.8	373.8
180°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1575.9	1568.8	1563.8	1559.7	1548.6	1542.0	1536.9	1529.9	1521.8	1513.1	1502.5
5°	1665.3	1643.9	1628.0	1604.0	1581.2	1562.3	1542.6	1525.0	1503.4	1480.0	1462.9
7.5°	1759.4	1727.4	1686.3	1650.8	1610.8	1576.0	1544.9	1513.1	1479.9	1447.8	1418.3
10°	1819.0	1777.9	1732.3	1678.6	1628.0	1583.1	1541.3	1500.9	1461.7	1422.4	1388.9
12.5°	1883.3	1832.1	1764.7	1701.9	1645.2	1585.2	1534.8	1485.2	1437.9	1396.7	1357.6
15°	1969.6	1895.5	1817.7	1733.6	1659.0	1588.8	1519.9	1457.2	1404.1	1349.7	1311.8
17.5°	2022.6	1931.0	1842.1	1754.1	1663.8	1575.3	1500.9	1428.7	1362.2	1308.1	1260.3
20°	2057.5	1966.4	1855.7	1767.8	1660.3	1569.2	1483.2	1402.9	1333.3	1275.7	1226.4
22.5°	2087.9	1982.6	1871.9	1756.2	1649.2	1552.5	1458.4	1377.5	1306.5	1245.9	1198.6
25°	2104.3	1983.5	1863.3	1748.2	1626.7	1512.3	1426.9	1332.1	1256.1	1192.2	1141.6
27.5°	2106.1	1976.9	1841.0	1713.0	1587.7	1481.1	1373.2	1288.5	1209.7	1142.2	1093.6
30°	2100.5	1965.8	1819.6	1681.2	1555.3	1439.6	1345.9	1253.6	1173.3	1106.2	1055.6
32.5°	2082.8	1942.5	1792.3	1645.8	1515.3	1402.1	1305.4	1217.7	1139.4	1073.3	1020.2
35°	2031.6	1893.0	1733.0	1580.6	1447.2	1332.7	1245.4	1156.2	1077.8	1015.2	963.9
37.5°	1951.5	1826.2	1663.6	1505.9	1374.8	1259.8	1173.3	1092.7	1022.0	958.4	905.9
40°	1881.7	1771.6	1608.4	1454.7	1313.0	1203.6	1122.7	1048.7	978.4	918.4	868.4
42.5°	1801.2	1705.3	1554.8	1391.9	1255.4	1145.4	1066.5	1000.1	933.9	878.4	828.5
45°	1657.7	1594.5	1452.9	1302.3	1160.0	1056.2	981.0	922.8	867.1	812.8	771.0
47.5°	1492.8	1461.4	1342.1	1199.2	1064.1	961.9	896.6	842.9	794.0	748.0	711.1
50°	1382.0	1366.8	1263.7	1125.8	996.8	900.6	834.9	788.7	746.9	706.5	671.7
52.5°	1272.7	1272.2	1179.2	1053.0	933.6	841.0	775.7	732.5	696.4	663.5	632.2
55°	1105.6	1123.3	1050.6	937.9	831.1	747.6	688.8	650.2	624.9	597.7	574.3
57.5°	952.1	981.5	921.5	822.4	733.2	656.2	605.1	576.1	549.1	532.7	515.6
60°	852.0	879.8	833.0	749.5	665.4	599.6	550.9	525.0	501.5	490.2	478.2
62.5°	762.9	787.7	753.0	675.7	602.6	539.4	498.3	473.3	457.6	445.1	437.2
65°	635.6	656.6	626.8	570.5	507.9	457.3	423.7	404.2	389.0	383.9	375.1
67.5°	513.8	532.8	516.7	468.9	418.7	380.4	354.2	335.3	326.4	321.9	315.6
70°	441.5	460.4	443.4	401.6	363.1	330.8	306.1	295.4	285.9	284.0	275.1
72.5°	380.2	393.2	376.0	343.4	310.5	283.2	264.1	252.9	248.0	244.5	239.7
75°	285.3	296.7	285.3	259.9	236.5	217.6	201.1	196.7	191.0	189.1	185.9
77.5°	201.9	211.8	203.0	187.2	169.8	155.1	146.2	140.5	139.3	136.0	137.5
80°	154.3	160.7	152.4	141.6	127.8	117.6	111.3	108.1	104.3	103.1	105.6
82.5°	110.8	113.6	109.4	102.2	91.8	85.2	81.0	77.3	76.5	76.8	76.8
85°	57.6	57.0	56.3	50.0	46.8	42.4	39.8	39.2	38.6	39.8	41.1
87.5°	20.3	20.7	20.0	17.9	16.2	14.6	13.9	13.3	13.9	14.6	15.3
90°	5.1	4.7	4.2	3.6	2.9	2.2	1.5	0.9	1.5	2.2	2.9
92.5°	4.9	4.4	4.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
95°	6.0	5.9	5.9	7.0	9.0	11.2	13.3	15.4	13.3	11.2	9.0
97.5°	21.3	28.2	35.2	37.9	36.7	35.3	34.0	32.7	34.0	35.3	36.7
100°	29.5	38.1	46.7	50.4	49.3	48.2	47.1	45.9	47.1	48.2	49.3
102.5°	61.6	62.7	63.8	64.0	63.1	62.3	61.6	60.7	61.6	62.3	63.1
105°	86.7	86.4	86.1	85.8	85.4	85.0	84.6	84.3	84.6	85.0	85.4
107.5°	108.1	107.7	107.2	106.9	106.7	106.5	106.3	106.2	106.3	106.5	106.7
110°	122.7	122.3	122.0	121.7	121.5	121.3	121.1	121.0	121.1	121.3	121.5



TEST NUMBER: P332670-927

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	137.2	137.0	136.9	136.7	136.3	135.9	135.6	135.3	135.6	135.9	136.3
115°	158.0	158.1	158.1	158.1	157.9	157.7	157.6	157.3	157.6	157.7	157.9
117.5°	178.7	178.6	178.4	178.2	178.0	177.7	177.4	177.2	177.4	177.7	178.0
120°	191.6	191.7	191.7	191.6	191.4	191.2	190.9	190.7	190.9	191.2	191.4
122.5°	204.1	204.0	203.9	203.8	203.7	203.5	203.4	203.2	203.4	203.5	203.7
125°	222.0	222.1	222.2	222.2	221.9	221.7	221.4	221.2	221.4	221.7	221.9
127.5°	239.2	238.9	238.6	238.4	238.4	238.3	238.3	238.2	238.3	238.3	238.4
130°	249.9	249.7	249.5	249.5	249.4	249.3	249.2	249.1	249.2	249.3	249.4
132.5°	260.3	260.1	259.8	259.7	259.6	259.4	259.4	259.3	259.4	259.4	259.6
135°	274.7	274.5	274.2	274.1	274.2	274.3	274.3	274.3	274.3	274.3	274.2
137.5°	288.5	288.3	288.0	287.9	287.8	287.8	287.8	287.7	287.8	287.8	287.8
140°	297.4	297.2	297.1	297.0	296.8	296.8	296.6	296.5	296.6	296.8	296.8
142.5°	305.5	305.5	305.4	305.2	305.0	304.8	304.5	304.4	304.5	304.8	305.0
145°	317.2	317.2	317.2	317.1	317.0	316.7	316.6	316.4	316.6	316.7	317.0
147.5°	327.3	327.4	327.5	327.3	327.0	326.6	326.3	325.9	326.3	326.6	327.0
150°	333.8	333.9	334.0	333.9	333.7	333.4	333.1	332.9	333.1	333.4	333.7
152.5°	339.3	339.5	339.5	339.5	339.3	339.1	338.9	338.7	338.9	339.1	339.3
155°	346.7	346.9	347.1	347.1	347.1	347.0	347.0	346.9	347.0	347.0	347.1
157.5°	353.1	353.3	353.5	353.6	353.6	353.7	353.7	353.8	353.7	353.7	353.6
160°	356.8	356.9	357.0	357.0	357.3	357.4	357.6	357.8	357.6	357.4	357.3
162.5°	360.1	360.2	360.3	360.4	360.7	360.9	361.2	361.4	361.2	360.9	360.7
165°	364.5	364.5	364.5	364.6	365.0	365.3	365.6	365.9	365.6	365.3	365.0
167.5°	368.0	368.0	368.0	368.2	368.5	368.8	369.2	369.5	369.2	368.8	368.5
170°	370.0	369.9	369.9	370.0	370.4	370.7	371.1	371.5	371.1	370.7	370.4
172.5°	371.4	371.3	371.2	371.4	371.8	372.1	372.5	372.9	372.5	372.1	371.8
175°	372.8	372.7	372.6	372.8	373.2	373.6	373.9	374.3	373.9	373.6	373.2
177.5°	373.7	373.6	373.4	373.6	373.9	374.3	374.6	375.0	374.6	374.3	373.9
180°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3



TEST NUMBER: P332670-927

CATALOG NUMBER: SA4XXDIP-C1195D365U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1497.5	1492.9	1486.4	1477.3	1469.7	1461.6	1459.5	1456.5	1462.5	1457.5	1456.0
5°	1448.4	1435.1	1418.0	1398.4	1387.0	1370.6	1367.5	1361.1	1354.8	1354.2	1347.8
7.5°	1396.4	1376.9	1354.6	1334.5	1316.1	1298.1	1286.3	1283.8	1274.5	1269.0	1262.7
10°	1363.0	1338.9	1313.0	1294.1	1272.6	1253.6	1240.3	1232.7	1226.4	1219.4	1213.1
12.5°	1323.6	1298.0	1276.6	1256.1	1230.6	1216.2	1194.3	1181.1	1179.9	1180.0	1163.6
15°	1277.6	1252.4	1219.4	1190.3	1176.4	1148.6	1136.5	1121.4	1111.9	1102.4	1094.9
17.5°	1225.1	1193.7	1167.9	1134.6	1108.0	1085.8	1070.1	1061.0	1046.6	1033.2	1023.5
20°	1192.2	1158.7	1131.6	1096.1	1067.0	1039.8	1026.5	1013.9	1003.1	991.7	981.0
22.5°	1158.8	1123.8	1090.5	1056.1	1029.0	1000.4	987.5	970.3	960.1	953.8	943.0
25°	1106.2	1068.3	1030.3	997.4	969.6	944.3	927.2	913.9	902.5	897.5	890.6
27.5°	1049.0	1011.4	974.7	937.3	905.7	887.4	873.7	863.7	857.1	850.4	847.3
30°	1012.6	973.4	934.2	899.4	870.3	852.0	839.3	832.3	827.3	824.1	820.9
32.5°	975.7	937.0	895.7	864.0	837.9	821.6	812.0	805.0	802.5	801.4	800.3
35°	916.5	877.3	839.3	810.9	786.2	779.8	771.7	767.9	766.6	771.0	772.9
37.5°	859.2	822.8	787.8	760.3	744.1	734.8	732.1	732.1	736.7	740.6	745.2
40°	822.2	786.8	753.9	729.9	714.7	709.0	707.7	710.9	716.0	720.4	725.5
42.5°	786.3	751.4	721.5	699.0	688.4	683.2	684.0	687.1	694.2	699.7	707.3
45°	730.6	701.4	672.3	654.0	645.2	646.4	646.4	652.1	659.0	667.3	675.5
47.5°	678.0	648.7	624.8	609.3	604.8	603.6	607.2	614.7	624.6	634.8	646.3
50°	642.6	614.8	593.9	580.0	575.0	576.9	581.9	588.8	600.9	613.5	625.5
52.5°	606.7	581.4	562.1	549.1	545.6	549.0	554.1	565.1	575.6	589.2	603.8
55°	550.9	529.4	514.2	504.7	503.4	505.3	511.0	523.1	538.2	555.3	569.3
57.5°	495.4	477.4	463.5	456.9	457.6	459.3	468.7	483.0	499.2	517.4	535.4
60°	457.9	441.5	430.1	425.0	425.6	429.4	440.8	454.2	474.4	492.1	511.0
62.5°	422.5	408.1	397.2	392.7	391.7	400.1	411.0	424.8	445.0	464.8	485.2
65°	365.6	354.2	345.3	342.8	344.7	351.0	365.0	383.3	400.4	421.2	442.8
67.5°	309.9	300.6	294.5	295.6	297.9	307.3	318.9	334.7	354.1	375.7	397.0
70°	274.5	265.6	260.5	261.2	265.0	276.4	286.5	302.3	323.2	345.3	363.1
72.5°	238.1	232.3	227.7	230.4	234.2	242.0	254.6	270.5	288.8	309.4	328.1
75°	182.8	182.8	180.2	182.1	187.8	195.4	204.9	221.3	239.7	256.2	271.3
77.5°	135.6	134.2	135.9	138.2	141.4	150.4	161.3	173.0	186.9	203.3	215.8
80°	103.7	104.3	107.5	111.3	112.6	119.5	130.9	141.6	152.4	166.4	178.4
82.5°	78.0	78.6	80.2	85.0	86.3	93.7	101.1	111.9	121.6	130.9	140.9
85°	42.4	42.4	45.6	47.5	50.6	55.7	60.0	66.4	75.3	81.6	91.1
87.5°	16.9	17.0	19.2	20.3	21.9	24.5	25.6	31.2	33.4	36.0	40.6
90°	3.6	4.2	4.7	5.1	5.6	6.2	6.5	6.9	7.3	7.7	7.9
92.5°	3.6	4.0	4.4	4.9	5.5	5.9	6.3	6.7	7.1	7.4	7.6
95°	7.0	5.9	5.9	6.0	6.1	6.2	6.5	6.9	7.3	7.7	7.8
97.5°	37.9	35.2	28.2	21.3	14.3	7.4	7.4	7.4	7.5	7.5	7.6
100°	50.4	46.7	38.1	29.5	20.9	12.4	11.2	10.2	9.1	8.1	7.6
102.5°	64.0	63.8	62.7	61.6	60.4	59.3	47.9	36.5	25.1	13.7	8.0
105°	85.8	86.1	86.4	86.7	87.1	87.4	87.9	88.5	89.0	89.6	88.7
107.5°	106.9	107.2	107.7	108.1	108.4	108.9	109.2	109.5	109.7	110.0	110.3
110°	121.7	122.0	122.3	122.7	123.1	123.5	123.6	123.7	123.8	124.0	124.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	136.7	136.9	137.0	137.2	137.4	137.6	137.5	137.5	137.5	137.4	137.6
115°	158.1	158.1	158.1	158.0	158.0	157.9	158.0	158.1	158.3	158.4	158.4
117.5°	178.2	178.4	178.6	178.7	178.8	179.0	179.0	178.9	178.9	178.9	178.8
120°	191.6	191.7	191.7	191.6	191.5	191.5	191.6	191.7	191.9	192.0	192.0
122.5°	203.8	203.9	204.0	204.1	204.1	204.3	204.3	204.4	204.5	204.5	204.5
125°	222.2	222.2	222.1	222.0	221.9	221.7	221.9	222.1	222.3	222.4	222.6
127.5°	238.4	238.6	238.9	239.2	239.5	239.8	239.7	239.7	239.6	239.6	239.6
130°	249.5	249.5	249.7	249.9	250.1	250.3	250.3	250.4	250.5	250.6	250.6
132.5°	259.7	259.8	260.1	260.3	260.5	260.8	260.9	260.9	261.0	261.1	261.1
135°	274.1	274.2	274.5	274.7	275.0	275.2	275.4	275.4	275.6	275.7	275.8
137.5°	287.9	288.0	288.3	288.5	288.8	289.1	289.2	289.4	289.5	289.6	289.7
140°	297.0	297.1	297.2	297.4	297.5	297.6	297.8	297.9	298.2	298.3	298.5
142.5°	305.2	305.4	305.5	305.5	305.6	305.7	305.8	305.9	306.1	306.2	306.3
145°	317.1	317.2	317.2	317.2	317.2	317.2	317.3	317.3	317.4	317.4	317.5
147.5°	327.3	327.5	327.4	327.3	327.3	327.3	327.3	327.3	327.4	327.4	327.5
150°	333.9	334.0	333.9	333.8	333.7	333.7	333.7	333.7	333.7	333.7	333.7
152.5°	339.5	339.5	339.5	339.3	339.2	339.1	339.2	339.3	339.4	339.5	339.5
155°	347.1	347.1	346.9	346.7	346.5	346.3	346.6	346.8	347.1	347.3	347.4
157.5°	353.6	353.5	353.3	353.1	352.8	352.7	353.0	353.3	353.6	353.9	353.9
160°	357.0	357.0	356.9	356.8	356.7	356.6	357.0	357.4	357.8	358.1	358.1
162.5°	360.4	360.3	360.2	360.1	360.1	360.0	360.4	360.8	361.2	361.6	361.5
165°	364.6	364.5	364.5	364.5	364.5	364.5	365.0	365.5	366.0	366.5	366.5
167.5°	368.2	368.0	368.0	368.0	367.9	367.9	368.4	369.0	369.6	370.0	370.0
170°	370.0	369.9	369.9	370.0	370.0	370.1	370.6	371.1	371.6	372.1	372.0
172.5°	371.4	371.2	371.3	371.4	371.4	371.5	371.9	372.5	373.0	373.4	373.4
175°	372.8	372.6	372.7	372.8	372.9	372.9	373.5	374.1	374.6	375.2	375.1
177.5°	373.6	373.4	373.6	373.7	373.8	373.8	374.3	374.7	375.1	375.5	375.3
180°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3



TEST NUMBER: P332670-927

CATALOG NUMBER: SA4XXDIP-C1195D365U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1455.0	1454.0	1450.4	1449.9	1450.4	1454.0	1455.0	1456.0	1457.5	1462.5	1456.5
5°	1344.0	1340.8	1338.9	1345.9	1338.9	1340.8	1344.0	1347.8	1354.2	1354.8	1361.1
7.5°	1260.4	1257.9	1252.4	1250.5	1252.4	1257.9	1260.4	1262.7	1269.0	1274.5	1283.8
10°	1206.8	1204.3	1199.2	1197.9	1199.2	1204.3	1206.8	1213.1	1219.4	1226.4	1232.7
12.5°	1155.2	1150.1	1149.1	1150.4	1149.1	1150.1	1155.2	1163.6	1180.0	1179.9	1181.1
15°	1086.6	1084.1	1077.1	1079.0	1077.1	1084.1	1086.6	1094.9	1102.4	1111.9	1121.4
17.5°	1019.1	1016.1	1007.6	1015.0	1007.6	1016.1	1019.1	1023.5	1033.2	1046.6	1061.0
20°	976.5	971.5	967.1	966.5	967.1	971.5	976.5	981.0	991.7	1003.1	1013.9
22.5°	936.0	931.5	931.1	927.0	931.1	931.5	936.0	943.0	953.8	960.1	970.3
25°	885.5	881.1	879.8	876.6	879.8	881.1	885.5	890.6	897.5	902.5	913.9
27.5°	846.7	844.5	842.2	843.2	842.2	844.5	846.7	847.3	850.4	857.1	863.7
30°	822.8	822.2	820.9	820.9	820.9	822.2	822.8	820.9	824.1	827.3	832.3
32.5°	803.1	803.0	803.7	803.7	803.7	803.0	803.1	800.3	801.4	802.5	805.0
35°	775.5	777.3	778.6	776.7	778.6	777.3	775.5	772.9	771.0	766.6	767.9
37.5°	750.4	752.3	754.1	756.2	754.1	752.3	750.4	745.2	740.6	736.7	732.1
40°	731.2	735.6	736.8	740.0	736.8	735.6	731.2	725.5	720.4	716.0	710.9
42.5°	713.0	717.9	721.1	721.8	721.1	717.9	713.0	707.3	699.7	694.2	687.1
45°	685.0	690.1	694.5	694.5	694.5	690.1	685.0	675.5	667.3	659.0	652.1
47.5°	656.0	663.4	667.8	668.9	667.8	663.4	656.0	646.3	634.8	624.6	614.7
50°	636.3	645.2	649.6	652.8	649.6	645.2	636.3	625.5	613.5	600.9	588.8
52.5°	617.0	625.9	631.8	633.5	631.8	625.9	617.0	603.8	589.2	575.6	565.1
55°	583.8	596.4	603.4	605.9	603.4	596.4	583.8	569.3	555.3	538.2	523.1
57.5°	552.4	564.0	572.1	574.0	572.1	564.0	552.4	535.4	517.4	499.2	483.0
60°	528.1	540.7	550.9	552.8	550.9	540.7	528.1	511.0	492.1	474.4	454.2
62.5°	503.4	516.5	525.6	530.5	525.6	516.5	503.4	485.2	464.8	445.0	424.8
65°	460.4	473.7	482.6	484.5	482.6	473.7	460.4	442.8	421.2	400.4	383.3
67.5°	413.7	426.9	432.8	436.4	432.8	426.9	413.7	397.0	375.7	354.1	334.7
70°	380.7	391.5	397.8	401.0	397.8	391.5	380.7	363.1	345.3	323.2	302.3
72.5°	343.3	354.6	361.9	362.5	361.9	354.6	343.3	328.1	309.4	288.8	270.5
75°	285.9	296.0	299.8	299.8	299.8	296.0	285.9	271.3	256.2	239.7	221.3
77.5°	226.3	231.5	236.3	237.3	236.3	231.5	226.3	215.8	203.3	186.9	173.0
80°	187.8	191.0	194.8	194.8	194.8	191.0	187.8	178.4	166.4	152.4	141.6
82.5°	148.4	151.1	154.9	154.3	154.9	151.1	148.4	140.9	130.9	121.6	111.9
85°	89.8	95.5	94.9	93.6	94.9	95.5	89.8	91.1	81.6	75.3	66.4
87.5°	42.1	42.6	44.1	45.2	44.1	42.6	42.1	40.6	36.0	33.4	31.2
90°	8.0	8.2	8.2	8.4	8.2	8.2	8.0	7.9	7.7	7.3	6.9
92.5°	7.7	7.7	7.7	7.8	7.7	7.7	7.7	7.6	7.4	7.1	6.7
95°	7.9	8.0	8.1	8.1	8.1	8.0	7.9	7.8	7.7	7.3	6.9
97.5°	7.7	7.7	7.8	7.8	7.8	7.7	7.7	7.6	7.5	7.5	7.4
100°	7.7	7.7	7.8	7.8	7.8	7.7	7.7	7.6	8.1	9.1	10.2
102.5°	8.0	8.0	8.1	8.1	8.1	8.0	8.0	8.0	13.7	25.1	36.5
105°	86.5	84.3	82.0	79.8	82.0	84.3	86.5	88.7	89.6	89.0	88.5
107.5°	110.5	110.7	111.0	111.2	111.0	110.7	110.5	110.3	110.0	109.7	109.5
110°	124.3	124.5	124.7	124.8	124.7	124.5	124.3	124.1	124.0	123.8	123.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	137.8	138.1	138.3	138.6	138.3	138.1	137.8	137.6	137.4	137.5	137.5
115°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.3	158.1
117.5°	178.8	178.8	178.8	178.7	178.8	178.8	178.8	178.8	178.9	178.9	178.9
120°	191.9	191.7	191.6	191.5	191.6	191.7	191.9	192.0	192.0	191.9	191.7
122.5°	204.4	204.3	204.1	204.1	204.1	204.3	204.4	204.5	204.5	204.5	204.4
125°	222.7	222.8	222.8	222.8	222.8	222.8	222.7	222.6	222.4	222.3	222.1
127.5°	239.6	239.5	239.4	239.4	239.4	239.5	239.6	239.6	239.6	239.6	239.7
130°	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.5	250.4
132.5°	261.0	260.9	260.9	260.9	260.9	260.9	261.0	261.1	261.1	261.0	260.9
135°	275.9	276.1	276.2	276.3	276.2	276.1	275.9	275.8	275.7	275.6	275.4
137.5°	289.6	289.6	289.5	289.5	289.5	289.6	289.6	289.7	289.6	289.5	289.4
140°	298.6	298.6	298.7	298.7	298.7	298.6	298.6	298.5	298.3	298.2	297.9
142.5°	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.2	306.1	305.9
145°	317.7	317.8	317.9	318.1	317.9	317.8	317.7	317.5	317.4	317.4	317.3
147.5°	327.6	327.6	327.6	327.7	327.6	327.6	327.6	327.5	327.4	327.4	327.3
150°	333.8	333.9	333.9	334.0	333.9	333.9	333.8	333.7	333.7	333.7	333.7
152.5°	339.5	339.5	339.5	339.4	339.5	339.5	339.5	339.5	339.5	339.4	339.3
155°	347.1	347.0	346.8	346.6	346.8	347.0	347.1	347.4	347.3	347.1	346.8
157.5°	353.6	353.3	353.0	352.7	353.0	353.3	353.6	353.9	353.9	353.6	353.3
160°	357.8	357.4	357.0	356.6	357.0	357.4	357.8	358.1	358.1	357.8	357.4
162.5°	361.1	360.7	360.2	359.8	360.2	360.7	361.1	361.5	361.6	361.2	360.8
165°	365.9	365.4	364.8	364.2	364.8	365.4	365.9	366.5	366.5	366.0	365.5
167.5°	369.4	368.8	368.1	367.6	368.1	368.8	369.4	370.0	370.0	369.6	369.0
170°	371.5	370.8	370.2	369.6	370.2	370.8	371.5	372.0	372.1	371.6	371.1
172.5°	372.7	372.0	371.4	370.7	371.4	372.0	372.7	373.4	373.4	373.0	372.5
175°	374.3	373.6	372.8	372.1	372.8	373.6	374.3	375.1	375.2	374.6	374.1
177.5°	374.8	374.1	373.6	373.0	373.6	374.1	374.8	375.3	375.5	375.1	374.7
180°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1459.5	1461.6	1469.7	1477.3	1486.4	1492.9	1497.5	1502.5	1513.1	1521.8	1529.9
5°	1367.5	1370.6	1387.0	1398.4	1418.0	1435.1	1448.4	1462.9	1480.0	1503.4	1525.0
7.5°	1286.3	1298.1	1316.1	1334.5	1354.6	1376.9	1396.4	1418.3	1447.8	1479.9	1513.1
10°	1240.3	1253.6	1272.6	1294.1	1313.0	1338.9	1363.0	1388.9	1422.4	1461.7	1500.9
12.5°	1194.3	1216.2	1230.6	1256.1	1276.6	1298.0	1323.6	1357.6	1396.7	1437.9	1485.2
15°	1136.5	1148.6	1176.4	1190.3	1219.4	1252.4	1277.6	1311.8	1349.7	1404.1	1457.2
17.5°	1070.1	1085.8	1108.0	1134.6	1167.9	1193.7	1225.1	1260.3	1308.1	1362.2	1428.7
20°	1026.5	1039.8	1067.0	1096.1	1131.6	1158.7	1192.2	1226.4	1275.7	1333.3	1402.9
22.5°	987.5	1000.4	1029.0	1056.1	1090.5	1123.8	1158.8	1198.6	1245.9	1306.5	1377.5
25°	927.2	944.3	969.6	997.4	1030.3	1068.3	1106.2	1141.6	1192.2	1256.1	1332.1
27.5°	873.7	887.4	905.7	937.3	974.7	1011.4	1049.0	1093.6	1142.2	1209.7	1288.5
30°	839.3	852.0	870.3	899.4	934.2	973.4	1012.6	1055.6	1106.2	1173.3	1253.6
32.5°	812.0	821.6	837.9	864.0	895.7	937.0	975.7	1020.2	1073.3	1139.4	1217.7
35°	771.7	779.8	786.2	810.9	839.3	877.3	916.5	963.9	1015.2	1077.8	1156.2
37.5°	732.1	734.8	744.1	760.3	787.8	822.8	859.2	905.9	958.4	1022.0	1092.7
40°	707.7	709.0	714.7	729.9	753.9	786.8	822.2	868.4	918.4	978.4	1048.7
42.5°	684.0	683.2	688.4	699.0	721.5	751.4	786.3	828.5	878.4	933.9	1000.1
45°	646.4	646.4	645.2	654.0	672.3	701.4	730.6	771.0	812.8	867.1	922.8
47.5°	607.2	603.6	604.8	609.3	624.8	648.7	678.0	711.1	748.0	794.0	842.9
50°	581.9	576.9	575.0	580.0	593.9	614.8	642.6	671.7	706.5	746.9	788.7
52.5°	554.1	549.0	545.6	549.1	562.1	581.4	606.7	632.2	663.5	696.4	732.5
55°	511.0	505.3	503.4	504.7	514.2	529.4	550.9	574.3	597.7	624.9	650.2
57.5°	468.7	459.3	457.6	456.9	463.5	477.4	495.4	515.6	532.7	549.1	576.1
60°	440.8	429.4	425.6	425.0	430.1	441.5	457.9	478.2	490.2	501.5	525.0
62.5°	411.0	400.1	391.7	392.7	397.2	408.1	422.5	437.2	445.1	457.6	473.3
65°	365.0	351.0	344.7	342.8	345.3	354.2	365.6	375.1	383.9	389.0	404.2
67.5°	318.9	307.3	297.9	295.6	294.5	300.6	309.9	315.6	321.9	326.4	335.3
70°	286.5	276.4	265.0	261.2	260.5	265.6	274.5	275.1	284.0	285.9	295.4
72.5°	254.6	242.0	234.2	230.4	227.7	232.3	238.1	239.7	244.5	248.0	252.9
75°	204.9	195.4	187.8	182.1	180.2	182.8	182.8	185.9	189.1	191.0	196.7
77.5°	161.3	150.4	141.4	138.2	135.9	134.2	135.6	137.5	136.0	139.3	140.5
80°	130.9	119.5	112.6	111.3	107.5	104.3	103.7	105.6	103.1	104.3	108.1
82.5°	101.1	93.7	86.3	85.0	80.2	78.6	78.0	76.8	76.8	76.5	77.3
85°	60.0	55.7	50.6	47.5	45.6	42.4	42.4	41.1	39.8	38.6	39.2
87.5°	25.6	24.5	21.9	20.3	19.2	17.0	16.9	15.3	14.6	13.9	13.3
90°	6.5	6.2	5.6	5.1	4.7	4.2	3.6	2.9	2.2	1.5	0.9
92.5°	6.3	5.9	5.5	4.9	4.4	4.0	3.6	3.6	3.6	3.6	3.6
95°	6.5	6.2	6.1	6.0	5.9	5.9	7.0	9.0	11.2	13.3	15.4
97.5°	7.4	7.4	14.3	21.3	28.2	35.2	37.9	36.7	35.3	34.0	32.7
100°	11.2	12.4	20.9	29.5	38.1	46.7	50.4	49.3	48.2	47.1	45.9
102.5°	47.9	59.3	60.4	61.6	62.7	63.8	64.0	63.1	62.3	61.6	60.7
105°	87.9	87.4	87.1	86.7	86.4	86.1	85.8	85.4	85.0	84.6	84.3
107.5°	109.2	108.9	108.4	108.1	107.7	107.2	106.9	106.7	106.5	106.3	106.2
110°	123.6	123.5	123.1	122.7	122.3	122.0	121.7	121.5	121.3	121.1	121.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	137.5	137.6	137.4	137.2	137.0	136.9	136.7	136.3	135.9	135.6	135.3
115°	158.0	157.9	158.0	158.0	158.1	158.1	158.1	157.9	157.7	157.6	157.3
117.5°	179.0	179.0	178.8	178.7	178.6	178.4	178.2	178.0	177.7	177.4	177.2
120°	191.6	191.5	191.5	191.6	191.7	191.7	191.6	191.4	191.2	190.9	190.7
122.5°	204.3	204.3	204.1	204.1	204.0	203.9	203.8	203.7	203.5	203.4	203.2
125°	221.9	221.7	221.9	222.0	222.1	222.2	222.2	221.9	221.7	221.4	221.2
127.5°	239.7	239.8	239.5	239.2	238.9	238.6	238.4	238.4	238.3	238.3	238.2
130°	250.3	250.3	250.1	249.9	249.7	249.5	249.5	249.4	249.3	249.2	249.1
132.5°	260.9	260.8	260.5	260.3	260.1	259.8	259.7	259.6	259.4	259.4	259.3
135°	275.4	275.2	275.0	274.7	274.5	274.2	274.1	274.2	274.3	274.3	274.3
137.5°	289.2	289.1	288.8	288.5	288.3	288.0	287.9	287.8	287.8	287.8	287.7
140°	297.8	297.6	297.5	297.4	297.2	297.1	297.0	296.8	296.8	296.6	296.5
142.5°	305.8	305.7	305.6	305.5	305.5	305.4	305.2	305.0	304.8	304.5	304.4
145°	317.3	317.2	317.2	317.2	317.2	317.2	317.1	317.0	316.7	316.6	316.4
147.5°	327.3	327.3	327.3	327.3	327.4	327.5	327.3	327.0	326.6	326.3	325.9
150°	333.7	333.7	333.7	333.8	333.9	334.0	333.9	333.7	333.4	333.1	332.9
152.5°	339.2	339.1	339.2	339.3	339.5	339.5	339.5	339.3	339.1	338.9	338.7
155°	346.6	346.3	346.5	346.7	346.9	347.1	347.1	347.1	347.0	347.0	346.9
157.5°	353.0	352.7	352.8	353.1	353.3	353.5	353.6	353.6	353.7	353.7	353.8
160°	357.0	356.6	356.7	356.8	356.9	357.0	357.0	357.3	357.4	357.6	357.8
162.5°	360.4	360.0	360.1	360.1	360.2	360.3	360.4	360.7	360.9	361.2	361.4
165°	365.0	364.5	364.5	364.5	364.5	364.5	364.6	365.0	365.3	365.6	365.9
167.5°	368.4	367.9	367.9	368.0	368.0	368.0	368.2	368.5	368.8	369.2	369.5
170°	370.6	370.1	370.0	370.0	369.9	369.9	370.0	370.4	370.7	371.1	371.5
172.5°	371.9	371.5	371.4	371.4	371.3	371.2	371.4	371.8	372.1	372.5	372.9
175°	373.5	372.9	372.9	372.8	372.7	372.6	372.8	373.2	373.6	373.9	374.3
177.5°	374.3	373.8	373.8	373.7	373.6	373.4	373.6	373.9	374.3	374.6	375.0
180°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1536.9	1542.0	1548.6	1559.7	1563.8	1568.8	1575.9	1575.4	1577.4	1585.0	1601.2
5°	1542.6	1562.3	1581.2	1604.0	1628.0	1643.9	1665.3	1678.6	1691.9	1709.0	1738.0
7.5°	1544.9	1576.0	1610.8	1650.8	1686.3	1727.4	1759.4	1789.5	1816.6	1852.7	1887.4
10°	1541.3	1583.1	1628.0	1678.6	1732.3	1777.9	1819.0	1865.8	1905.7	1949.3	1988.5
12.5°	1534.8	1585.2	1645.2	1701.9	1764.7	1832.1	1883.3	1930.6	1983.6	2033.8	2094.3
15°	1519.9	1588.8	1659.0	1733.6	1817.7	1895.5	1969.6	2030.9	2087.9	2163.1	2242.2
17.5°	1500.9	1575.3	1663.8	1754.1	1842.1	1931.0	2022.6	2114.8	2186.7	2280.1	2342.0
20°	1483.2	1569.2	1660.3	1767.8	1855.7	1966.4	2057.5	2146.7	2245.4	2338.3	2412.3
22.5°	1458.4	1552.5	1649.2	1756.2	1871.9	1982.6	2087.9	2184.6	2283.3	2384.4	2474.1
25°	1426.9	1512.3	1626.7	1748.2	1863.3	1983.5	2104.3	2225.7	2331.9	2438.9	2522.4
27.5°	1373.2	1481.1	1587.7	1713.0	1841.0	1976.9	2106.1	2233.2	2344.5	2432.4	2484.1
30°	1345.9	1439.6	1555.3	1681.2	1819.6	1965.8	2100.5	2225.1	2328.9	2399.0	2419.9
32.5°	1305.4	1402.1	1515.3	1645.8	1792.3	1942.5	2082.8	2200.3	2286.8	2323.6	2298.4
35°	1245.4	1332.7	1447.2	1580.6	1733.0	1893.0	2031.6	2130.8	2175.1	2140.3	2053.7
37.5°	1173.3	1259.8	1374.8	1505.9	1663.6	1826.2	1951.5	2022.9	2008.3	1921.8	1792.6
40°	1122.7	1203.6	1313.0	1454.7	1608.4	1771.6	1881.7	1920.2	1879.8	1755.8	1618.5
42.5°	1066.5	1145.4	1255.4	1391.9	1554.8	1705.3	1801.2	1804.4	1736.5	1588.3	1450.6
45°	981.0	1056.2	1160.0	1302.3	1452.9	1594.5	1657.7	1626.7	1501.5	1358.6	1220.0
47.5°	896.6	961.9	1064.1	1199.2	1342.1	1461.4	1492.8	1437.0	1303.5	1164.8	1036.4
50°	834.9	900.6	996.8	1125.8	1263.7	1366.8	1382.0	1308.0	1177.0	1037.3	936.7
52.5°	775.7	841.0	933.6	1053.0	1179.2	1272.2	1272.7	1187.1	1056.6	932.0	838.5
55°	688.8	747.6	831.1	937.9	1050.6	1123.3	1105.6	1017.0	903.8	795.7	714.1
57.5°	605.1	656.2	733.2	822.4	921.5	981.5	952.1	866.9	765.8	674.1	612.3
60°	550.9	599.6	665.4	749.5	833.0	879.8	852.0	774.8	681.8	607.8	554.1
62.5°	498.3	539.4	602.6	675.7	753.0	787.7	762.9	686.7	606.4	539.5	495.9
65°	423.7	457.3	507.9	570.5	626.8	656.6	635.6	564.8	503.4	455.4	420.6
67.5°	354.2	380.4	418.7	468.9	516.7	532.8	513.8	464.5	412.5	374.1	349.5
70°	306.1	330.8	363.1	401.6	443.4	460.4	441.5	402.3	359.9	324.5	300.4
72.5°	264.1	283.2	310.5	343.4	376.0	393.2	380.2	342.5	306.7	280.4	259.9
75°	201.1	217.6	236.5	259.9	285.3	296.7	285.3	259.3	234.6	215.1	200.5
77.5°	146.2	155.1	169.8	187.2	203.0	211.8	201.9	184.3	169.3	155.8	148.6
80°	111.3	117.6	127.8	141.6	152.4	160.7	154.3	139.7	127.8	118.9	115.7
82.5°	81.0	85.2	91.8	102.2	109.4	113.6	110.8	100.3	95.4	87.5	84.4
85°	39.8	42.4	46.8	50.0	56.3	57.0	57.6	53.2	48.7	46.8	44.3
87.5°	13.9	14.6	16.2	17.9	20.0	20.7	20.3	20.4	18.5	18.0	16.1
90°	1.5	2.2	2.9	3.6	4.2	4.7	5.1	5.6	6.2	6.5	6.9
92.5°	3.6	3.6	3.6	3.6	4.0	4.4	4.9	5.5	5.9	6.3	6.7
95°	13.3	11.2	9.0	7.0	5.9	5.9	6.0	6.1	6.2	6.5	6.9
97.5°	34.0	35.3	36.7	37.9	35.2	28.2	21.3	14.3	7.4	7.4	7.4
100°	47.1	48.2	49.3	50.4	46.7	38.1	29.5	20.9	12.4	11.2	10.2
102.5°	61.6	62.3	63.1	64.0	63.8	62.7	61.6	60.4	59.3	47.9	36.5
105°	84.6	85.0	85.4	85.8	86.1	86.4	86.7	87.1	87.4	87.9	88.5
107.5°	106.3	106.5	106.7	106.9	107.2	107.7	108.1	108.4	108.9	109.2	109.5
110°	121.1	121.3	121.5	121.7	122.0	122.3	122.7	123.1	123.5	123.6	123.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	135.6	135.9	136.3	136.7	136.9	137.0	137.2	137.4	137.6	137.5	137.5
115°	157.6	157.7	157.9	158.1	158.1	158.1	158.0	158.0	157.9	158.0	158.1
117.5°	177.4	177.7	178.0	178.2	178.4	178.6	178.7	178.8	179.0	179.0	178.9
120°	190.9	191.2	191.4	191.6	191.7	191.7	191.6	191.5	191.5	191.6	191.7
122.5°	203.4	203.5	203.7	203.8	203.9	204.0	204.1	204.1	204.3	204.3	204.4
125°	221.4	221.7	221.9	222.2	222.2	222.1	222.0	221.9	221.7	221.9	222.1
127.5°	238.3	238.3	238.4	238.4	238.6	238.9	239.2	239.5	239.8	239.7	239.7
130°	249.2	249.3	249.4	249.5	249.5	249.7	249.9	250.1	250.3	250.3	250.4
132.5°	259.4	259.4	259.6	259.7	259.8	260.1	260.3	260.5	260.8	260.9	260.9
135°	274.3	274.3	274.2	274.1	274.2	274.5	274.7	275.0	275.2	275.4	275.4
137.5°	287.8	287.8	287.8	287.9	288.0	288.3	288.5	288.8	289.1	289.2	289.4
140°	296.6	296.8	296.8	297.0	297.1	297.2	297.4	297.5	297.6	297.8	297.9
142.5°	304.5	304.8	305.0	305.2	305.4	305.5	305.5	305.6	305.7	305.8	305.9
145°	316.6	316.7	317.0	317.1	317.2	317.2	317.2	317.2	317.2	317.3	317.3
147.5°	326.3	326.6	327.0	327.3	327.5	327.4	327.3	327.3	327.3	327.3	327.3
150°	333.1	333.4	333.7	333.9	334.0	333.9	333.8	333.7	333.7	333.7	333.7
152.5°	338.9	339.1	339.3	339.5	339.5	339.5	339.3	339.2	339.1	339.2	339.3
155°	347.0	347.0	347.1	347.1	347.1	346.9	346.7	346.5	346.3	346.6	346.8
157.5°	353.7	353.7	353.6	353.6	353.5	353.3	353.1	352.8	352.7	353.0	353.3
160°	357.6	357.4	357.3	357.0	357.0	356.9	356.8	356.7	356.6	357.0	357.4
162.5°	361.2	360.9	360.7	360.4	360.3	360.2	360.1	360.1	360.0	360.4	360.8
165°	365.6	365.3	365.0	364.6	364.5	364.5	364.5	364.5	364.5	365.0	365.5
167.5°	369.2	368.8	368.5	368.2	368.0	368.0	368.0	367.9	367.9	368.4	369.0
170°	371.1	370.7	370.4	370.0	369.9	369.9	370.0	370.0	370.1	370.6	371.1
172.5°	372.5	372.1	371.8	371.4	371.2	371.3	371.4	371.4	371.5	371.9	372.5
175°	373.9	373.6	373.2	372.8	372.6	372.7	372.8	372.9	372.9	373.5	374.1
177.5°	374.6	374.3	373.9	373.6	373.4	373.6	373.7	373.8	373.8	374.3	374.7
180°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1609.3	1610.3	1614.9	1618.4	1619.5	1624.4	1625.0
5°	1750.7	1761.5	1782.3	1784.2	1787.4	1803.9	1791.2
7.5°	1916.4	1943.8	1962.0	1978.1	1983.9	1991.1	1989.6
10°	2022.7	2063.2	2083.4	2115.7	2116.9	2125.2	2120.1
12.5°	2129.5	2176.5	2213.4	2219.4	2246.5	2250.7	2257.7
15°	2280.8	2330.7	2381.9	2400.3	2437.6	2446.5	2460.4
17.5°	2423.0	2474.1	2510.0	2557.4	2572.7	2593.2	2579.3
20°	2500.8	2556.5	2602.1	2639.4	2655.2	2666.6	2665.3
22.5°	2547.9	2604.1	2641.0	2669.3	2684.0	2688.8	2688.6
25°	2577.4	2609.6	2621.0	2631.8	2615.3	2609.6	2612.1
27.5°	2495.5	2487.1	2457.3	2418.4	2377.9	2345.7	2328.3
30°	2382.6	2333.2	2288.4	2209.9	2169.5	2145.4	2123.9
32.5°	2222.7	2144.5	2058.1	1986.2	1940.2	1904.6	1899.3
35°	1948.7	1831.1	1725.5	1637.5	1592.0	1553.4	1544.5
37.5°	1656.8	1534.5	1439.4	1362.0	1313.0	1285.9	1260.4
40°	1462.9	1358.0	1264.3	1198.6	1161.3	1141.6	1125.8
42.5°	1313.7	1217.8	1124.7	1074.6	1040.8	1028.8	1019.5
45°	1107.5	1018.3	953.8	915.8	896.2	876.0	866.5
47.5°	942.4	869.8	827.3	795.0	774.0	762.0	756.0
50°	848.8	789.3	751.4	726.7	707.7	698.2	693.2
52.5°	765.8	717.0	685.1	665.5	652.6	645.6	643.6
55°	659.7	622.3	602.1	585.0	575.6	569.3	566.7
57.5°	573.4	544.7	528.2	514.2	510.6	505.3	503.4
60°	516.7	494.6	480.7	471.2	468.0	461.7	463.0
62.5°	466.7	448.5	436.7	431.3	427.1	421.8	423.5
65°	394.7	381.4	375.1	370.0	365.0	361.8	364.3
67.5°	331.1	322.1	313.5	310.5	308.0	307.5	304.8
70°	289.7	282.1	274.5	272.6	272.6	270.1	269.4
72.5°	249.7	244.2	239.1	237.7	235.7	236.7	234.0
75°	192.9	188.5	186.6	184.7	184.0	184.0	182.1
77.5°	142.6	139.3	136.3	136.3	134.0	133.1	132.8
80°	108.1	106.9	104.3	104.3	103.1	103.7	102.4
82.5°	81.4	79.5	79.1	78.0	76.3	76.4	75.2
85°	43.6	41.7	41.1	39.2	37.9	39.2	37.9
87.5°	16.6	16.2	15.8	14.7	14.3	14.3	12.8
90°	7.3	7.7	7.9	8.0	8.2	8.2	8.4
92.5°	7.1	7.4	7.6	7.7	7.7	7.7	7.8
95°	7.3	7.7	7.8	7.9	8.0	8.1	8.1
97.5°	7.5	7.5	7.6	7.7	7.7	7.8	7.8
100°	9.1	8.1	7.6	7.7	7.7	7.8	7.8
102.5°	25.1	13.7	8.0	8.0	8.0	8.1	8.1
105°	89.0	89.6	88.7	86.5	84.3	82.0	79.8
107.5°	109.7	110.0	110.3	110.5	110.7	111.0	111.2
110°	123.8	124.0	124.1	124.3	124.5	124.7	124.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	137.5	137.4	137.6	137.8	138.1	138.3	138.6
115°	158.3	158.4	158.4	158.4	158.4	158.4	158.4
117.5°	178.9	178.9	178.8	178.8	178.8	178.8	178.7
120°	191.9	192.0	192.0	191.9	191.7	191.6	191.5
122.5°	204.5	204.5	204.5	204.4	204.3	204.1	204.1
125°	222.3	222.4	222.6	222.7	222.8	222.8	222.8
127.5°	239.6	239.6	239.6	239.6	239.5	239.4	239.4
130°	250.5	250.6	250.6	250.6	250.6	250.6	250.6
132.5°	261.0	261.1	261.1	261.0	260.9	260.9	260.9
135°	275.6	275.7	275.8	275.9	276.1	276.2	276.3
137.5°	289.5	289.6	289.7	289.6	289.6	289.5	289.5
140°	298.2	298.3	298.5	298.6	298.6	298.7	298.7
142.5°	306.1	306.2	306.3	306.3	306.3	306.3	306.3
145°	317.4	317.4	317.5	317.7	317.8	317.9	318.1
147.5°	327.4	327.4	327.5	327.6	327.6	327.6	327.7
150°	333.7	333.7	333.7	333.8	333.9	333.9	334.0
152.5°	339.4	339.5	339.5	339.5	339.5	339.5	339.4
155°	347.1	347.3	347.4	347.1	347.0	346.8	346.6
157.5°	353.6	353.9	353.9	353.6	353.3	353.0	352.7
160°	357.8	358.1	358.1	357.8	357.4	357.0	356.6
162.5°	361.2	361.6	361.5	361.1	360.7	360.2	359.8
165°	366.0	366.5	366.5	365.9	365.4	364.8	364.2
167.5°	369.6	370.0	370.0	369.4	368.8	368.1	367.6
170°	371.6	372.1	372.0	371.5	370.8	370.2	369.6
172.5°	373.0	373.4	373.4	372.7	372.0	371.4	370.7
175°	374.6	375.2	375.1	374.3	373.6	372.8	372.1
177.5°	375.1	375.5	375.3	374.8	374.1	373.6	373.0
180°	374.3	374.3	374.3	374.3	374.3	374.3	374.3

(END OF REPORT)