

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: P331385-840

Luminaire Tested: **SA2XXDIP-C865D530U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331385-840
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-C865D530U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

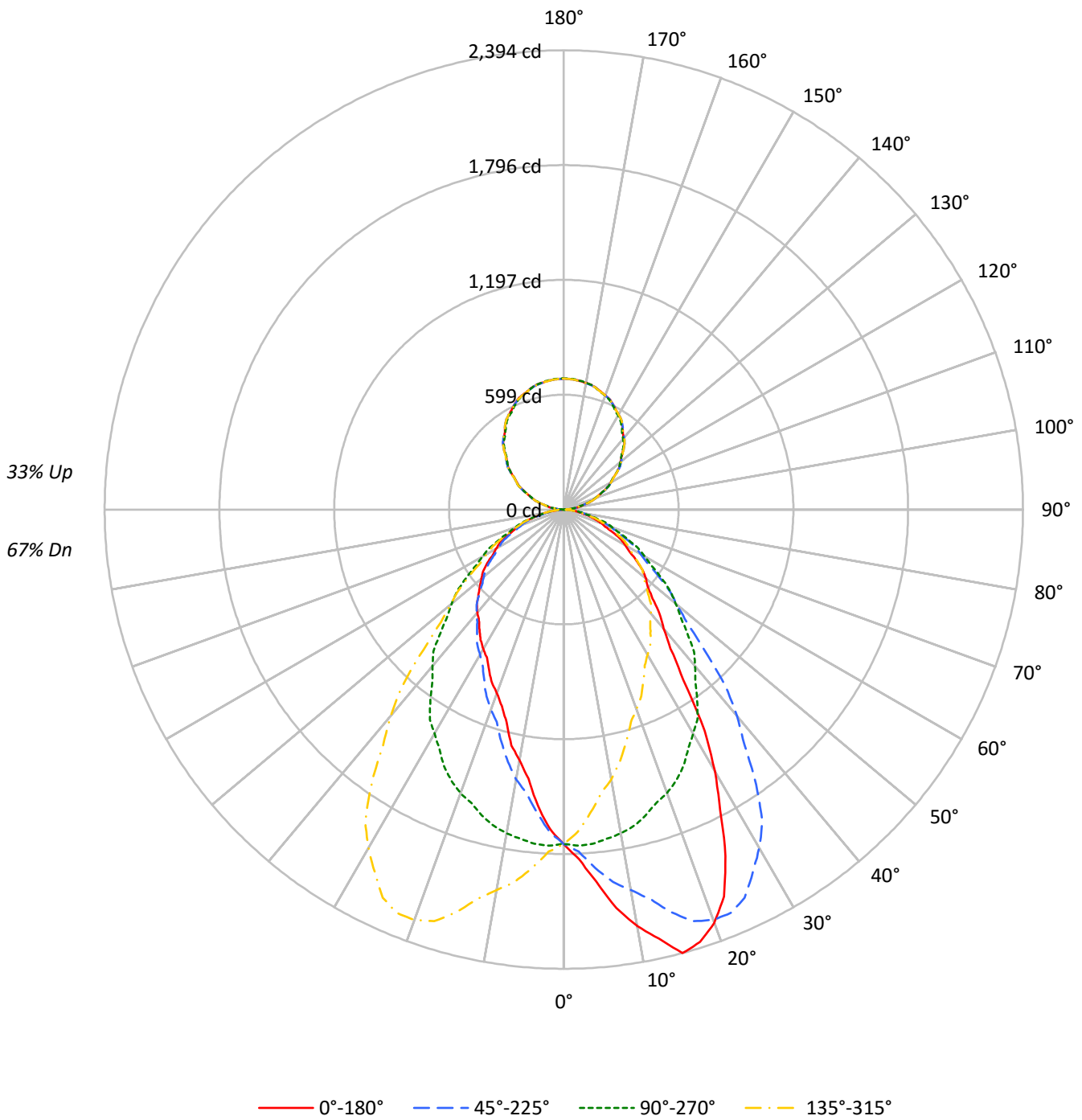
Lumens per Lamp: N/A
Luminaire Lumens: 5757.5 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.8
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	102	98	94	91	96	93	89	86	82	80	78	73	71	69	64	63	62	58				
2	94	86	80	75	88	82	76	72	73	69	65	65	62	59	57	55	53	49				
3	86	77	69	64	81	73	66	61	65	60	56	58	54	51	51	48	46	42				
4	79	68	60	54	74	65	58	52	58	53	48	52	48	44	46	43	40	37				
5	73	61	53	47	68	58	51	46	52	47	42	47	42	39	42	38	35	33				
6	67	55	47	41	63	53	45	40	48	42	37	43	38	34	39	35	32	29				
7	62	50	42	37	59	48	41	36	43	37	33	39	34	31	35	31	28	26				
8	58	46	38	33	55	44	37	32	40	34	30	36	31	28	33	29	26	23				
9	54	42	35	30	51	40	33	29	37	31	27	33	29	25	30	26	23	21				
10	51	39	32	27	48	37	31	26	34	28	24	31	26	23	28	24	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28150	28150	28150	28150
5°	31561	28336	25109	28336
10°	36166	28103	21730	28103
15°	40010	27587	19198	27587
20°	39400	27034	17500	27034
25°	35527	26298	16425	26298
30°	29358	25124	15642	25124
35°	21396	23893	15084	23893
40°	17089	22443	14773	22443
45°	14933	20763	14351	20763
50°	14039	19138	14071	19138
55°	12940	17486	13695	17486
60°	11858	15733	13114	15733
65°	10804	14155	12542	14155
70°	9805	12623	11703	12623
75°	8696	10911	10368	10911
80°	7476	9028	8350	9028
85°	6706	6706	4965	6706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	2.9
10°-20°	482.7	8.4
20°-30°	700.6	12.2
30°-40°	739.3	12.8
40°-50°	654.6	11.4
50°-60°	522.4	9.1
60°-70°	355.1	6.2
70°-80°	182.0	3.2
80°-90°	46.6	0.8
90°-100°	43.3	0.8
100°-110°	134.3	2.3
110°-120°	229.6	4.0
120°-130°	301.9	5.2
130°-140°	338.8	5.9
140°-150°	332.2	5.8
150°-160°	278.7	4.8
160°-170°	184.8	3.2
170°-180°	64.6	1.1
0°-30°	1349.4	23.4
0°-40°	2088.7	36.3
0°-60°	3265.7	56.7
0°-90°	3849.4	66.9
90°-120°	407.1	7.1
90°-150°	1380.1	24.0
90°-180°	1908.0	33.1
0°-180°	5757.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1744	1744	1744	1744	1744	
5°	1947	1748	1549	1748	1947	194
15°	2394	1650	1148	1650	2394	660
25°	1994	1476	922	1476	1994	901
35°	1086	1212	765	1212	1086	706
45°	654	909	628	909	654	514
55°	460	621	486	621	460	412
65°	283	370	328	370	283	281
75°	139	175	166	175	139	149
85°	36	36	27	36	36	40
90°	20	1	20	1	20	10
95°	36	30	36	30	36	40
105°	128	124	128	124	128	134
115°	230	230	230	230	230	227
125°	336	335	336	335	336	300
135°	439	434	439	434	439	338
145°	532	526	532	526	532	332
155°	606	602	606	602	606	279
165°	655	655	655	655	655	185
175°	679	681	679	681	679	65
180°	682	682	682	682	682	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1824.0	1824.5	1825.6	1817.1	1815.9	1815.9	1808.5	1802.0	1794.5	1784.3	1785.4
5°	1947.3	1954.7	1957.3	1949.3	1937.2	1935.9	1924.5	1905.7	1888.3	1874.2	1864.2
7.5°	2094.5	2097.4	2090.8	2080.2	2071.2	2055.2	2034.0	2013.3	1984.2	1957.5	1937.6
10°	2205.9	2210.0	2198.6	2183.1	2170.4	2151.6	2120.8	2089.3	2051.1	2014.3	1984.8
12.5°	2290.7	2300.6	2285.9	2283.9	2262.1	2236.3	2199.7	2183.7	2130.0	2078.6	2047.0
15°	2393.6	2392.9	2394.3	2381.5	2365.4	2361.4	2322.6	2280.4	2204.6	2174.4	2122.2
17.5°	2363.8	2374.0	2378.7	2378.5	2378.1	2375.6	2363.2	2336.5	2298.6	2249.7	2189.3
20°	2293.1	2306.4	2308.5	2323.9	2332.6	2344.0	2348.6	2341.3	2317.8	2276.9	2224.7
22.5°	2183.7	2187.5	2193.7	2217.8	2236.6	2265.2	2280.1	2304.8	2295.8	2275.9	2232.2
25°	1994.2	1987.5	2010.9	2023.0	2066.6	2112.1	2145.0	2181.1	2213.3	2232.7	2220.0
27.5°	1766.7	1756.6	1791.7	1823.7	1859.1	1908.4	1959.6	2020.0	2070.3	2133.1	2154.7
30°	1574.7	1580.7	1614.3	1648.4	1702.0	1771.7	1829.4	1895.7	1967.4	2037.7	2086.7
32.5°	1367.8	1391.0	1412.2	1464.5	1511.8	1589.4	1673.9	1756.9	1846.2	1926.2	2002.0
35°	1085.5	1112.4	1141.9	1180.0	1246.4	1323.4	1405.8	1517.7	1639.7	1749.0	1838.8
37.5°	913.7	909.5	926.3	953.9	1007.6	1069.9	1164.8	1275.4	1418.9	1547.2	1673.9
40°	810.8	808.1	820.2	845.7	886.6	932.1	1015.2	1112.4	1245.7	1402.5	1553.3
42.5°	740.0	741.6	748.3	766.3	794.4	831.8	894.0	976.7	1098.8	1246.5	1408.6
45°	654.0	658.7	666.1	674.8	690.8	721.6	756.5	815.5	912.0	1035.3	1194.8
47.5°	592.1	592.2	599.8	607.3	616.9	634.3	662.7	699.7	767.8	868.2	1005.3
50°	558.9	554.2	559.6	565.5	575.6	587.6	606.4	641.3	686.8	767.9	882.5
52.5°	518.2	518.3	523.1	525.3	534.3	546.4	563.5	587.6	628.9	692.4	786.6
55°	459.7	463.0	465.7	469.7	477.8	486.5	499.9	515.9	548.2	595.7	665.4
57.5°	404.8	405.8	408.5	416.2	421.2	429.3	442.0	456.6	477.5	512.7	565.1
60°	367.2	367.2	372.5	375.9	382.6	390.6	400.7	414.8	433.5	462.3	504.6
62.5°	333.0	332.3	334.5	340.0	345.1	352.6	362.6	374.6	392.2	417.9	452.6
65°	282.8	281.4	285.5	286.8	292.2	299.5	307.6	320.3	334.4	353.1	384.0
67.5°	234.5	236.1	238.3	240.9	243.8	251.6	256.9	265.9	277.8	293.4	314.3
70°	207.7	207.7	207.7	209.7	213.8	217.8	223.2	230.6	241.9	255.3	274.1
72.5°	177.7	179.9	182.0	180.8	185.9	188.3	194.7	198.8	209.7	218.3	234.9
75°	139.4	139.4	139.4	142.7	144.7	146.7	150.8	154.8	160.2	170.9	179.6
77.5°	104.0	103.7	104.4	105.2	107.3	109.8	111.0	114.6	119.6	124.5	131.9
80°	80.4	81.8	82.4	83.7	83.7	85.1	85.7	90.5	93.8	97.1	101.9
82.5°	62.2	62.4	62.6	62.8	63.4	64.2	65.9	67.5	68.6	71.4	75.0
85°	36.2	35.5	35.5	36.9	36.2	36.2	37.6	38.9	38.9	39.5	41.5
87.5°	17.9	17.9	18.4	17.8	17.8	18.3	18.4	17.9	18.5	19.1	19.0
90°	19.6	19.5	19.3	19.2	19.1	19.1	19.4	19.7	19.9	20.2	17.4
92.5°	18.7	18.7	18.6	18.6	18.6	18.5	18.5	18.4	18.4	18.3	17.7
95°	35.7	36.0	36.3	36.5	36.8	36.9	36.9	36.9	36.9	36.9	36.6
97.5°	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	61.5
100°	78.9	79.1	79.2	79.3	79.4	79.5	79.5	79.5	79.5	79.5	79.1
102.5°	98.3	98.4	98.5	98.7	98.8	98.8	98.7	98.6	98.5	98.4	97.9
105°	127.8	127.8	127.8	127.8	127.8	127.7	127.4	127.2	126.9	126.7	126.4
107.5°	155.7	156.3	156.9	157.4	158.0	158.3	158.2	158.1	158.0	157.9	157.9
110°	177.3	177.7	178.1	178.5	178.9	179.0	179.0	179.0	179.0	179.0	179.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	198.1	198.3	198.6	198.9	199.2	199.5	199.9	200.2	200.5	200.8	200.9
115°	230.4	230.8	231.2	231.5	231.9	232.2	232.3	232.4	232.6	232.7	232.9
117.5°	261.1	261.5	261.9	262.3	262.7	263.0	263.3	263.6	263.9	264.2	264.9
120°	282.8	283.2	283.6	283.9	284.3	284.5	284.5	284.5	284.5	284.5	285.5
122.5°	304.0	304.3	304.5	304.8	305.1	305.4	305.7	306.0	306.3	306.6	307.3
125°	336.3	336.4	336.6	336.7	336.8	337.1	337.5	337.8	338.2	338.6	339.0
127.5°	365.8	366.2	366.6	367.0	367.4	367.9	368.3	368.8	369.2	369.7	370.2
130°	387.0	387.5	388.0	388.5	389.0	389.4	389.7	389.9	390.2	390.4	390.7
132.5°	407.3	407.7	408.1	408.5	408.9	409.4	409.9	410.5	411.1	411.6	411.6
135°	438.8	439.2	439.6	440.0	440.3	440.6	440.7	440.9	441.0	441.1	440.9
137.5°	467.4	467.9	468.4	468.9	469.4	469.7	469.8	469.9	470.0	470.1	469.8
140°	487.2	487.7	488.2	488.7	489.3	489.5	489.5	489.5	489.5	489.5	488.9
142.5°	505.1	505.6	506.1	506.6	507.2	507.4	507.3	507.2	507.1	507.0	506.5
145°	532.1	532.6	533.1	533.6	534.1	534.3	534.2	534.1	533.9	533.8	533.1
147.5°	556.1	556.6	557.1	557.6	558.2	558.3	558.0	557.6	557.3	557.1	556.5
150°	571.9	572.2	572.6	573.0	573.4	573.4	573.0	572.6	572.2	571.9	571.3
152.5°	586.6	587.0	587.5	588.0	588.5	588.5	588.0	587.5	587.0	586.6	585.9
155°	606.4	606.7	607.1	607.5	607.9	607.8	607.1	606.5	605.9	605.2	604.8
157.5°	623.4	624.1	624.7	625.3	625.9	625.8	624.9	624.0	623.2	622.3	622.1
160°	634.0	634.5	635.1	635.6	636.1	635.9	635.2	634.4	633.7	632.9	632.8
162.5°	643.3	643.9	644.5	645.1	645.7	645.6	644.7	643.8	643.0	642.1	642.0
165°	655.3	656.0	656.6	657.2	657.9	657.7	656.9	656.0	655.1	654.2	654.2
167.5°	665.2	665.9	666.6	667.2	667.9	667.8	666.9	666.0	665.1	664.2	664.2
170°	670.3	671.1	671.9	672.6	673.4	673.3	672.5	671.6	670.7	669.7	669.8
172.5°	674.5	675.2	676.0	676.8	677.5	677.4	676.6	675.7	674.8	673.9	674.0
175°	678.9	679.7	680.4	681.3	682.1	682.0	681.1	680.1	679.2	678.3	678.6
177.5°	681.1	681.7	682.3	682.9	683.5	683.5	682.9	682.3	681.7	681.1	681.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1789.2	1784.8	1782.2	1772.5	1763.9	1755.3	1752.7	1753.7	1742.0	1730.7	1725.9
5°	1858.9	1845.4	1832.7	1814.6	1793.2	1769.7	1757.7	1748.3	1724.8	1699.4	1684.7
7.5°	1921.3	1902.1	1877.6	1843.6	1812.3	1775.4	1752.0	1731.2	1697.0	1661.0	1639.0
10°	1959.3	1933.2	1901.7	1860.2	1822.0	1777.1	1745.6	1714.1	1673.9	1631.0	1604.2
12.5°	1992.1	1956.8	1925.8	1872.5	1827.4	1771.2	1733.8	1689.4	1647.1	1596.2	1569.9
15°	2069.9	2004.9	1945.9	1885.6	1830.0	1751.6	1710.1	1650.4	1594.8	1531.9	1501.7
17.5°	2130.1	2057.1	1964.2	1887.5	1822.6	1735.9	1674.9	1603.4	1537.6	1465.6	1424.6
20°	2164.4	2080.6	1980.7	1889.7	1811.9	1712.7	1646.4	1573.4	1496.3	1415.2	1371.0
22.5°	2184.7	2096.7	1997.9	1881.6	1790.5	1693.9	1610.5	1530.5	1452.4	1364.8	1318.5
25°	2191.2	2110.8	2006.3	1874.9	1763.7	1654.5	1554.0	1476.2	1381.7	1300.0	1232.3
27.5°	2159.3	2101.6	2001.1	1862.3	1732.7	1605.0	1493.0	1404.9	1305.3	1216.5	1148.4
30°	2120.2	2086.7	1988.8	1849.5	1708.1	1570.7	1447.4	1347.6	1248.4	1158.6	1088.9
32.5°	2059.6	2052.3	1966.3	1831.2	1681.8	1527.3	1399.7	1298.8	1188.9	1100.7	1034.2
35°	1940.6	1972.8	1918.4	1790.5	1632.3	1465.5	1327.5	1212.2	1098.3	1013.8	951.5
37.5°	1781.1	1861.0	1846.7	1730.8	1565.6	1398.3	1245.9	1125.4	1016.8	931.6	870.4
40°	1671.2	1773.0	1787.8	1685.3	1518.4	1346.3	1184.8	1064.8	958.9	881.2	819.5
42.5°	1553.3	1672.2	1712.7	1630.6	1466.9	1291.5	1130.0	1005.8	901.0	825.5	770.7
45°	1355.6	1513.1	1586.1	1539.2	1381.1	1201.4	1035.3	909.3	814.2	743.2	700.9
47.5°	1170.7	1342.8	1441.1	1424.5	1285.5	1107.6	943.3	822.4	729.8	673.2	635.4
50°	1040.0	1216.9	1335.4	1340.9	1216.9	1040.7	875.9	761.9	676.8	623.9	593.0
52.5°	926.3	1095.2	1224.6	1252.9	1140.2	971.0	815.3	701.9	626.9	578.2	550.7
55°	778.0	920.7	1064.1	1116.4	1025.9	865.1	721.0	621.2	550.8	517.4	493.2
57.5°	646.8	765.8	898.2	955.9	900.2	762.5	627.4	540.8	483.6	454.3	435.9
60°	577.6	671.5	789.4	858.4	810.1	687.5	569.6	487.2	440.3	414.1	396.7
62.5°	513.3	596.4	696.1	759.2	733.0	617.3	511.7	438.9	398.4	374.0	361.3
65°	423.5	489.2	566.2	624.5	607.1	519.3	432.9	370.5	338.4	318.9	308.9
67.5°	348.7	396.2	449.6	500.7	486.7	424.4	355.0	306.5	282.6	265.8	259.7
70°	301.5	337.7	385.3	426.2	414.8	363.9	308.9	267.4	246.6	232.6	226.5
72.5°	256.5	286.3	322.6	356.0	348.3	306.0	260.1	228.7	212.8	199.9	194.9
75°	193.7	216.4	238.5	260.6	258.6	225.8	199.0	174.9	162.2	152.1	150.1
77.5°	143.0	155.7	170.8	183.9	180.3	161.5	140.5	126.6	117.2	110.6	109.5
80°	109.3	116.6	127.3	136.7	132.0	124.0	107.2	97.1	90.5	83.7	81.1
82.5°	79.2	86.5	93.0	98.1	94.5	86.9	76.6	69.8	65.8	61.2	60.2
85°	41.5	45.5	48.3	49.6	48.3	43.5	38.9	36.2	32.8	30.8	30.2
87.5°	19.0	18.4	17.9	18.5	16.6	16.3	13.8	11.9	11.7	11.4	10.7
90°	14.5	11.7	8.9	6.8	5.2	3.6	2.1	0.6	2.1	3.6	5.2
92.5°	17.0	16.4	15.7	14.7	13.6	12.5	11.4	10.3	11.4	12.5	13.6
95°	36.4	36.1	35.9	35.0	33.8	32.5	31.2	30.0	31.2	32.5	33.8
97.5°	61.0	60.5	60.0	59.2	58.1	57.0	55.8	54.7	55.8	57.0	58.1
100°	78.7	78.4	78.0	77.3	76.2	75.1	74.1	73.1	74.1	75.1	76.2
102.5°	97.4	96.9	96.4	95.7	94.9	94.1	93.3	92.5	93.3	94.1	94.9
105°	126.1	125.9	125.6	125.3	124.9	124.6	124.2	123.8	124.2	124.6	124.9
107.5°	157.9	157.9	157.9	157.6	157.0	156.5	155.9	155.4	155.9	156.5	157.0
110°	179.0	179.0	179.0	178.7	177.9	177.1	176.4	175.6	176.4	177.1	177.9



TEST NUMBER: P331385-840

CATALOG NUMBER: SA2XXDIP-C865D530U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.0	201.1	201.2	200.9	200.1	199.2	198.5	197.7	198.5	199.2	200.1
115°	233.2	233.4	233.7	233.4	232.7	231.9	231.2	230.4	231.2	231.9	232.7
117.5°	265.6	266.4	267.1	266.9	265.9	264.9	263.9	262.9	263.9	264.9	265.9
120°	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5	285.5	286.5	287.5
122.5°	308.0	308.7	309.4	309.2	308.0	306.8	305.5	304.3	305.5	306.8	308.0
125°	339.4	339.7	340.1	339.7	338.6	337.5	336.3	335.2	336.3	337.5	338.6
127.5°	370.6	371.1	371.5	371.0	369.6	368.1	366.7	365.2	366.7	368.1	369.6
130°	390.9	391.2	391.4	390.7	389.1	387.4	385.8	384.2	385.8	387.4	389.1
132.5°	411.5	411.5	411.4	410.7	409.4	408.0	406.7	405.3	406.7	408.0	409.4
135°	440.6	440.3	440.1	439.3	437.9	436.5	435.0	433.6	435.0	436.5	437.9
137.5°	469.5	469.2	468.8	468.1	467.0	465.7	464.6	463.4	464.6	465.7	467.0
140°	488.2	487.6	487.0	486.0	484.8	483.7	482.6	481.4	482.6	483.7	484.8
142.5°	506.1	505.7	505.2	504.4	503.3	502.2	501.0	499.9	501.0	502.2	503.3
145°	532.3	531.5	530.8	530.0	529.1	528.2	527.3	526.3	527.3	528.2	529.1
147.5°	556.0	555.5	555.0	554.2	553.2	552.1	551.0	550.0	551.0	552.1	553.2
150°	570.8	570.3	569.8	569.2	568.4	567.6	566.8	566.1	566.8	567.6	568.4
152.5°	585.3	584.7	584.1	583.4	582.7	581.9	581.2	580.4	581.2	581.9	582.7
155°	604.5	604.1	603.7	603.3	602.9	602.6	602.2	601.8	602.2	602.6	602.9
157.5°	621.9	621.6	621.4	621.2	620.9	620.6	620.4	620.1	620.4	620.6	620.9
160°	632.6	632.5	632.4	632.2	631.9	631.7	631.4	631.2	631.4	631.7	631.9
162.5°	641.9	641.7	641.6	641.5	641.5	641.4	641.4	641.3	641.4	641.4	641.5
165°	654.2	654.2	654.2	654.3	654.4	654.5	654.6	654.8	654.6	654.5	654.4
167.5°	664.3	664.3	664.3	664.5	664.9	665.3	665.7	666.0	665.7	665.3	664.9
170°	669.9	670.1	670.2	670.6	670.9	671.3	671.7	672.1	671.7	671.3	670.9
172.5°	674.2	674.3	674.4	674.7	675.0	675.4	675.8	676.2	675.8	675.4	675.0
175°	678.9	679.1	679.4	679.7	680.1	680.4	680.9	681.3	680.9	680.4	680.1
177.5°	681.5	681.7	681.9	682.1	682.4	682.7	683.0	683.4	683.0	682.7	682.4
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331385-840

CATALOG NUMBER: SA2XXDIP-C865D530U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1720.5	1717.3	1706.1	1700.2	1690.5	1681.4	1675.5	1678.2	1680.3	1679.2	1677.7
5°	1671.2	1658.5	1639.0	1622.2	1610.2	1588.1	1578.7	1574.1	1570.0	1565.3	1560.6
7.5°	1612.6	1592.5	1564.5	1540.7	1518.1	1490.7	1475.0	1465.6	1456.0	1445.4	1436.0
10°	1570.7	1542.6	1513.1	1479.6	1452.8	1427.9	1405.8	1391.1	1377.8	1364.9	1355.6
12.5°	1526.7	1494.3	1457.8	1412.0	1382.5	1347.1	1343.6	1317.7	1296.8	1288.9	1277.9
15°	1456.8	1411.2	1364.9	1310.7	1287.3	1255.1	1235.0	1214.9	1196.8	1184.1	1180.7
17.5°	1377.4	1318.4	1272.3	1233.3	1194.9	1162.0	1143.5	1127.4	1112.5	1095.5	1093.2
20°	1316.8	1265.8	1215.6	1181.3	1141.9	1108.3	1085.5	1069.4	1056.7	1046.7	1037.9
22.5°	1259.4	1203.7	1157.6	1120.2	1081.3	1054.2	1036.2	1020.7	1010.1	999.0	990.8
25°	1167.3	1123.8	1073.5	1031.3	999.1	981.7	966.9	953.5	946.8	939.5	930.1
27.5°	1086.7	1038.3	991.4	958.7	930.4	914.9	904.5	895.3	889.1	884.7	879.4
30°	1030.0	981.0	944.1	912.0	888.6	873.1	866.5	861.1	853.7	851.0	848.4
32.5°	975.2	931.2	899.7	871.8	849.4	839.4	833.2	828.4	822.6	819.9	814.6
35°	898.0	861.1	830.2	814.9	796.8	788.0	783.4	776.7	771.2	768.6	767.9
37.5°	825.2	793.1	772.8	753.1	745.4	740.0	733.7	729.0	727.4	727.0	726.4
40°	778.0	751.8	733.8	717.7	714.3	706.3	700.9	696.9	696.9	697.6	696.9
42.5°	735.1	711.7	695.7	681.8	677.8	673.1	667.7	667.4	668.5	670.8	668.5
45°	670.0	653.4	642.0	635.2	627.8	623.2	622.5	624.5	625.2	625.9	627.8
47.5°	610.4	599.2	588.9	581.5	578.2	577.4	576.6	580.2	583.4	584.6	587.6
50°	574.9	562.2	553.5	548.8	546.1	544.8	546.1	550.2	552.8	556.1	558.2
52.5°	535.2	526.2	520.3	516.6	515.5	516.3	516.6	521.2	525.5	526.6	527.7
55°	480.5	473.7	472.4	466.4	469.1	468.4	471.7	474.4	478.5	482.5	483.1
57.5°	425.8	420.4	416.8	417.4	418.2	421.1	423.9	428.6	432.9	437.2	437.6
60°	389.3	386.7	384.7	384.7	386.0	390.0	393.3	398.0	400.7	403.4	405.4
62.5°	356.1	353.5	351.4	352.4	356.0	358.4	362.2	364.8	367.5	370.1	371.1
65°	303.6	302.3	304.3	305.6	306.2	309.6	314.3	316.3	318.9	320.3	325.0
67.5°	255.2	255.4	255.2	257.0	260.9	261.8	266.2	270.8	271.4	274.0	277.0
70°	222.5	223.8	225.2	226.5	229.8	231.2	234.5	236.5	239.2	241.3	243.3
72.5°	192.5	192.7	194.1	193.8	196.6	199.5	202.4	204.4	207.0	209.6	211.6
75°	148.0	148.0	149.5	150.1	153.5	156.8	156.1	157.4	160.2	162.8	164.2
77.5°	108.2	106.6	108.2	108.9	109.9	112.7	113.2	115.1	118.2	117.2	118.8
80°	82.4	80.4	82.4	83.1	83.1	86.4	86.4	87.8	89.8	87.8	89.8
82.5°	58.9	57.9	59.4	59.5	60.6	60.7	61.8	62.0	64.0	63.1	64.0
85°	29.5	28.8	29.5	28.8	29.5	30.2	30.2	29.5	29.5	30.8	28.8
87.5°	10.5	10.4	10.4	10.9	11.0	11.0	10.4	10.4	10.3	9.2	9.2
90°	6.8	8.9	11.7	14.5	17.4	20.2	19.9	19.7	19.4	19.1	19.1
92.5°	14.7	15.7	16.4	17.0	17.7	18.3	18.4	18.4	18.5	18.5	18.6
95°	35.0	35.9	36.1	36.4	36.6	36.9	36.9	36.9	36.9	36.9	36.8
97.5°	59.2	60.0	60.5	61.0	61.5	62.0	62.0	62.0	62.0	62.0	61.9
100°	77.3	78.0	78.4	78.7	79.1	79.5	79.5	79.5	79.5	79.5	79.4
102.5°	95.7	96.4	96.9	97.4	97.9	98.4	98.5	98.6	98.7	98.8	98.8
105°	125.3	125.6	125.9	126.1	126.4	126.7	126.9	127.2	127.4	127.7	127.8
107.5°	157.6	157.9	157.9	157.9	157.9	157.9	158.0	158.1	158.2	158.3	158.0
110°	178.7	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	178.9



TEST NUMBER: P331385-840

CATALOG NUMBER: SA2XXDIP-C865D530U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	200.9	201.2	201.1	201.0	200.9	200.8	200.5	200.2	199.9	199.5	199.2
115°	233.4	233.7	233.4	233.2	232.9	232.7	232.6	232.4	232.3	232.2	231.9
117.5°	266.9	267.1	266.4	265.6	264.9	264.2	263.9	263.6	263.3	263.0	262.7
120°	288.6	288.6	287.5	286.5	285.5	284.5	284.5	284.5	284.5	284.5	284.3
122.5°	309.2	309.4	308.7	308.0	307.3	306.6	306.3	306.0	305.7	305.4	305.1
125°	339.7	340.1	339.7	339.4	339.0	338.6	338.2	337.8	337.5	337.1	336.8
127.5°	371.0	371.5	371.1	370.6	370.2	369.7	369.2	368.8	368.3	367.9	367.4
130°	390.7	391.4	391.2	390.9	390.7	390.4	390.2	389.9	389.7	389.4	389.0
132.5°	410.7	411.4	411.5	411.5	411.6	411.6	411.1	410.5	409.9	409.4	408.9
135°	439.3	440.1	440.3	440.6	440.9	441.1	441.0	440.9	440.7	440.6	440.3
137.5°	468.1	468.8	469.2	469.5	469.8	470.1	470.0	469.9	469.8	469.7	469.4
140°	486.0	487.0	487.6	488.2	488.9	489.5	489.5	489.5	489.5	489.5	489.3
142.5°	504.4	505.2	505.7	506.1	506.5	507.0	507.1	507.2	507.3	507.4	507.2
145°	530.0	530.8	531.5	532.3	533.1	533.8	533.9	534.1	534.2	534.3	534.1
147.5°	554.2	555.0	555.5	556.0	556.5	557.1	557.3	557.6	558.0	558.3	558.2
150°	569.2	569.8	570.3	570.8	571.3	571.9	572.2	572.6	573.0	573.4	573.4
152.5°	583.4	584.1	584.7	585.3	585.9	586.6	587.0	587.5	588.0	588.5	588.5
155°	603.3	603.7	604.1	604.5	604.8	605.2	605.9	606.5	607.1	607.8	607.9
157.5°	621.2	621.4	621.6	621.9	622.1	622.3	623.2	624.0	624.9	625.8	625.9
160°	632.2	632.4	632.5	632.6	632.8	632.9	633.7	634.4	635.2	635.9	636.1
162.5°	641.5	641.6	641.7	641.9	642.0	642.1	643.0	643.8	644.7	645.6	645.7
165°	654.3	654.2	654.2	654.2	654.2	654.2	655.1	656.0	656.9	657.7	657.9
167.5°	664.5	664.3	664.3	664.3	664.2	664.2	665.1	666.0	666.9	667.8	667.9
170°	670.6	670.2	670.1	669.9	669.8	669.7	670.7	671.6	672.5	673.3	673.4
172.5°	674.7	674.4	674.3	674.2	674.0	673.9	674.8	675.7	676.6	677.4	677.5
175°	679.7	679.4	679.1	678.9	678.6	678.3	679.2	680.1	681.1	682.0	682.1
177.5°	682.1	681.9	681.7	681.5	681.3	681.1	681.7	682.3	682.9	683.5	683.5
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331385-840

CATALOG NUMBER: SA2XXDIP-C865D530U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1672.2	1671.2	1671.2	1666.4	1671.2	1671.2	1672.2	1677.7	1679.2	1680.3	1678.2
5°	1551.3	1549.2	1545.9	1549.2	1545.9	1549.2	1551.3	1560.6	1565.3	1570.0	1574.1
7.5°	1431.6	1423.5	1422.3	1414.4	1422.3	1423.5	1431.6	1436.0	1445.4	1456.0	1465.6
10°	1344.2	1338.9	1338.2	1325.4	1338.2	1338.9	1344.2	1355.6	1364.9	1377.8	1391.1
12.5°	1277.8	1264.9	1267.4	1260.0	1267.4	1264.9	1277.8	1277.9	1288.9	1296.8	1317.7
15°	1162.7	1162.7	1159.9	1148.5	1159.9	1162.7	1162.7	1180.7	1184.1	1196.8	1214.9
17.5°	1079.9	1078.5	1072.2	1075.4	1072.2	1078.5	1079.9	1093.2	1095.5	1112.5	1127.4
20°	1030.6	1026.6	1018.5	1018.5	1018.5	1026.6	1030.6	1037.9	1046.7	1056.7	1069.4
22.5°	984.0	983.7	975.1	977.8	975.1	983.7	984.0	990.8	999.0	1010.1	1020.7
25°	929.4	924.0	920.1	922.0	920.1	924.0	929.4	930.1	939.5	946.8	953.5
27.5°	877.7	874.7	874.4	869.0	874.4	874.7	877.7	879.4	884.7	889.1	895.3
30°	847.7	841.0	842.3	839.0	842.3	841.0	847.7	848.4	851.0	853.7	861.1
32.5°	813.3	810.9	809.6	806.8	809.6	810.9	813.3	814.6	819.9	822.6	828.4
35°	766.6	767.3	763.9	765.3	763.9	767.3	766.6	767.9	768.6	771.2	776.7
37.5°	725.7	727.8	726.3	726.7	726.3	727.8	725.7	726.4	727.0	727.4	729.0
40°	698.9	698.9	698.9	700.9	698.9	698.9	698.9	696.9	697.6	696.9	696.9
42.5°	673.2	672.1	671.1	670.9	671.1	672.1	673.2	668.5	670.8	668.5	667.4
45°	629.2	631.3	631.9	628.5	631.9	631.3	629.2	627.8	625.9	625.2	624.5
47.5°	589.5	589.7	589.5	592.4	589.5	589.7	589.5	587.6	584.6	583.4	580.2
50°	561.6	560.2	561.6	560.2	561.6	560.2	561.6	558.2	556.1	552.8	550.2
52.5°	532.1	532.3	531.5	531.3	531.5	532.3	532.1	527.7	526.6	525.5	521.2
55°	485.8	487.2	486.5	486.5	486.5	487.2	485.8	483.1	482.5	478.5	474.4
57.5°	438.0	439.2	440.1	437.2	440.1	439.2	438.0	437.6	437.2	432.9	428.6
60°	404.8	408.1	407.4	406.1	407.4	408.1	404.8	405.4	403.4	400.7	398.0
62.5°	374.2	375.4	375.3	375.0	375.3	375.4	374.2	371.1	370.1	367.5	364.8
65°	327.0	328.3	326.3	328.3	326.3	328.3	327.0	325.0	320.3	318.9	316.3
67.5°	276.2	276.6	278.1	279.0	278.1	276.6	276.2	277.0	274.0	271.4	270.8
70°	244.6	243.9	245.9	247.9	245.9	243.9	244.6	243.3	241.3	239.2	236.5
72.5°	211.4	212.8	212.2	213.6	212.2	212.8	211.4	211.6	209.6	207.0	204.4
75°	162.8	164.8	164.2	166.2	164.2	164.8	162.8	164.2	162.8	160.2	157.4
77.5°	117.6	118.0	117.6	118.8	117.6	118.0	117.6	118.8	117.2	118.2	115.1
80°	89.8	88.5	87.2	89.8	87.2	88.5	89.8	89.8	87.8	89.8	87.8
82.5°	62.4	63.2	61.9	61.9	61.9	63.2	62.4	64.0	63.1	64.0	62.0
85°	28.8	28.2	26.8	26.8	26.8	28.2	28.8	28.8	30.8	29.5	29.5
87.5°	9.2	8.7	8.7	8.2	8.7	8.7	9.2	9.2	9.2	10.3	10.4
90°	19.2	19.3	19.5	19.6	19.5	19.3	19.2	19.1	19.1	19.4	19.7
92.5°	18.6	18.6	18.7	18.7	18.7	18.6	18.6	18.6	18.5	18.5	18.4
95°	36.5	36.3	36.0	35.7	36.0	36.3	36.5	36.8	36.9	36.9	36.9
97.5°	61.9	61.9	61.9	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.0
100°	79.3	79.2	79.1	78.9	79.1	79.2	79.3	79.4	79.5	79.5	79.5
102.5°	98.7	98.5	98.4	98.3	98.4	98.5	98.7	98.8	98.8	98.7	98.6
105°	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.7	127.4	127.2
107.5°	157.4	156.9	156.3	155.7	156.3	156.9	157.4	158.0	158.3	158.2	158.1
110°	178.5	178.1	177.7	177.3	177.7	178.1	178.5	178.9	179.0	179.0	179.0



TEST NUMBER: P331385-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	198.9	198.6	198.3	198.1	198.3	198.6	198.9	199.2	199.5	199.9	200.2
115°	231.5	231.2	230.8	230.4	230.8	231.2	231.5	231.9	232.2	232.3	232.4
117.5°	262.3	261.9	261.5	261.1	261.5	261.9	262.3	262.7	263.0	263.3	263.6
120°	283.9	283.6	283.2	282.8	283.2	283.6	283.9	284.3	284.5	284.5	284.5
122.5°	304.8	304.5	304.3	304.0	304.3	304.5	304.8	305.1	305.4	305.7	306.0
125°	336.7	336.6	336.4	336.3	336.4	336.6	336.7	336.8	337.1	337.5	337.8
127.5°	367.0	366.6	366.2	365.8	366.2	366.6	367.0	367.4	367.9	368.3	368.8
130°	388.5	388.0	387.5	387.0	387.5	388.0	388.5	389.0	389.4	389.7	389.9
132.5°	408.5	408.1	407.7	407.3	407.7	408.1	408.5	408.9	409.4	409.9	410.5
135°	440.0	439.6	439.2	438.8	439.2	439.6	440.0	440.3	440.6	440.7	440.9
137.5°	468.9	468.4	467.9	467.4	467.9	468.4	468.9	469.4	469.7	469.8	469.9
140°	488.7	488.2	487.7	487.2	487.7	488.2	488.7	489.3	489.5	489.5	489.5
142.5°	506.6	506.1	505.6	505.1	505.6	506.1	506.6	507.2	507.4	507.3	507.2
145°	533.6	533.1	532.6	532.1	532.6	533.1	533.6	534.1	534.3	534.2	534.1
147.5°	557.6	557.1	556.6	556.1	556.6	557.1	557.6	558.2	558.3	558.0	557.6
150°	573.0	572.6	572.2	571.9	572.2	572.6	573.0	573.4	573.4	573.0	572.6
152.5°	588.0	587.5	587.0	586.6	587.0	587.5	588.0	588.5	588.5	588.0	587.5
155°	607.5	607.1	606.7	606.4	606.7	607.1	607.5	607.9	607.8	607.1	606.5
157.5°	625.3	624.7	624.1	623.4	624.1	624.7	625.3	625.9	625.8	624.9	624.0
160°	635.6	635.1	634.5	634.0	634.5	635.1	635.6	636.1	635.9	635.2	634.4
162.5°	645.1	644.5	643.9	643.3	643.9	644.5	645.1	645.7	645.6	644.7	643.8
165°	657.2	656.6	656.0	655.3	656.0	656.6	657.2	657.9	657.7	656.9	656.0
167.5°	667.2	666.6	665.9	665.2	665.9	666.6	667.2	667.9	667.8	666.9	666.0
170°	672.6	671.9	671.1	670.3	671.1	671.9	672.6	673.4	673.3	672.5	671.6
172.5°	676.8	676.0	675.2	674.5	675.2	676.0	676.8	677.5	677.4	676.6	675.7
175°	681.3	680.4	679.7	678.9	679.7	680.4	681.3	682.1	682.0	681.1	680.1
177.5°	682.9	682.3	681.7	681.1	681.7	682.3	682.9	683.5	683.5	682.9	682.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331385-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1675.5	1681.4	1690.5	1700.2	1706.1	1717.3	1720.5	1725.9	1730.7	1742.0	1753.7
5°	1578.7	1588.1	1610.2	1622.2	1639.0	1658.5	1671.2	1684.7	1699.4	1724.8	1748.3
7.5°	1475.0	1490.7	1518.1	1540.7	1564.5	1592.5	1612.6	1639.0	1661.0	1697.0	1731.2
10°	1405.8	1427.9	1452.8	1479.6	1513.1	1542.6	1570.7	1604.2	1631.0	1673.9	1714.1
12.5°	1343.6	1347.1	1382.5	1412.0	1457.8	1494.3	1526.7	1569.9	1596.2	1647.1	1689.4
15°	1235.0	1255.1	1287.3	1310.7	1364.9	1411.2	1456.8	1501.7	1531.9	1594.8	1650.4
17.5°	1143.5	1162.0	1194.9	1233.3	1272.3	1318.4	1377.4	1424.6	1465.6	1537.6	1603.4
20°	1085.5	1108.3	1141.9	1181.3	1215.6	1265.8	1316.8	1371.0	1415.2	1496.3	1573.4
22.5°	1036.2	1054.2	1081.3	1120.2	1157.6	1203.7	1259.4	1318.5	1364.8	1452.4	1530.5
25°	966.9	981.7	999.1	1031.3	1073.5	1123.8	1167.3	1232.3	1300.0	1381.7	1476.2
27.5°	904.5	914.9	930.4	958.7	991.4	1038.3	1086.7	1148.4	1216.5	1305.3	1404.9
30°	866.5	873.1	888.6	912.0	944.1	981.0	1030.0	1088.9	1158.6	1248.4	1347.6
32.5°	833.2	839.4	849.4	871.8	899.7	931.2	975.2	1034.2	1100.7	1188.9	1298.8
35°	783.4	788.0	796.8	814.9	830.2	861.1	898.0	951.5	1013.8	1098.3	1212.2
37.5°	733.7	740.0	745.4	753.1	772.8	793.1	825.2	870.4	931.6	1016.8	1125.4
40°	700.9	706.3	714.3	717.7	733.8	751.8	778.0	819.5	881.2	958.9	1064.8
42.5°	667.7	673.1	677.8	681.8	695.7	711.7	735.1	770.7	825.5	901.0	1005.8
45°	622.5	623.2	627.8	635.2	642.0	653.4	670.0	700.9	743.2	814.2	909.3
47.5°	576.6	577.4	578.2	581.5	588.9	599.2	610.4	635.4	673.2	729.8	822.4
50°	546.1	544.8	546.1	548.8	553.5	562.2	574.9	593.0	623.9	676.8	761.9
52.5°	516.6	516.3	515.5	516.6	520.3	526.2	535.2	550.7	578.2	626.9	701.9
55°	471.7	468.4	469.1	466.4	472.4	473.7	480.5	493.2	517.4	550.8	621.2
57.5°	423.9	421.1	418.2	417.4	416.8	420.4	425.8	435.9	454.3	483.6	540.8
60°	393.3	390.0	386.0	384.7	384.7	386.7	389.3	396.7	414.1	440.3	487.2
62.5°	362.2	358.4	356.0	352.4	351.4	353.5	356.1	361.3	374.0	398.4	438.9
65°	314.3	309.6	306.2	305.6	304.3	302.3	303.6	308.9	318.9	338.4	370.5
67.5°	266.2	261.8	260.9	257.0	255.2	255.4	255.2	259.7	265.8	282.6	306.5
70°	234.5	231.2	229.8	226.5	225.2	223.8	222.5	226.5	232.6	246.6	267.4
72.5°	202.4	199.5	196.6	193.8	194.1	192.7	192.5	194.9	199.9	212.8	228.7
75°	156.1	156.8	153.5	150.1	149.5	148.0	148.0	150.1	152.1	162.2	174.9
77.5°	113.2	112.7	109.9	108.9	108.2	106.6	108.2	109.5	110.6	117.2	126.6
80°	86.4	86.4	83.1	83.1	82.4	80.4	82.4	81.1	83.7	90.5	97.1
82.5°	61.8	60.7	60.6	59.5	59.4	57.9	58.9	60.2	61.2	65.8	69.8
85°	30.2	30.2	29.5	28.8	29.5	28.8	29.5	30.2	30.8	32.8	36.2
87.5°	10.4	11.0	11.0	10.9	10.4	10.4	10.5	10.7	11.4	11.7	11.9
90°	19.9	20.2	17.4	14.5	11.7	8.9	6.8	5.2	3.6	2.1	0.6
92.5°	18.4	18.3	17.7	17.0	16.4	15.7	14.7	13.6	12.5	11.4	10.3
95°	36.9	36.9	36.6	36.4	36.1	35.9	35.0	33.8	32.5	31.2	30.0
97.5°	62.0	62.0	61.5	61.0	60.5	60.0	59.2	58.1	57.0	55.8	54.7
100°	79.5	79.5	79.1	78.7	78.4	78.0	77.3	76.2	75.1	74.1	73.1
102.5°	98.5	98.4	97.9	97.4	96.9	96.4	95.7	94.9	94.1	93.3	92.5
105°	126.9	126.7	126.4	126.1	125.9	125.6	125.3	124.9	124.6	124.2	123.8
107.5°	158.0	157.9	157.9	157.9	157.9	157.9	157.6	157.0	156.5	155.9	155.4
110°	179.0	179.0	179.0	179.0	179.0	179.0	178.7	177.9	177.1	176.4	175.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	200.5	200.8	200.9	201.0	201.1	201.2	200.9	200.1	199.2	198.5	197.7
115°	232.6	232.7	232.9	233.2	233.4	233.7	233.4	232.7	231.9	231.2	230.4
117.5°	263.9	264.2	264.9	265.6	266.4	267.1	266.9	265.9	264.9	263.9	262.9
120°	284.5	284.5	285.5	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5
122.5°	306.3	306.6	307.3	308.0	308.7	309.4	309.2	308.0	306.8	305.5	304.3
125°	338.2	338.6	339.0	339.4	339.7	340.1	339.7	338.6	337.5	336.3	335.2
127.5°	369.2	369.7	370.2	370.6	371.1	371.5	371.0	369.6	368.1	366.7	365.2
130°	390.2	390.4	390.7	390.9	391.2	391.4	390.7	389.1	387.4	385.8	384.2
132.5°	411.1	411.6	411.6	411.5	411.5	411.4	410.7	409.4	408.0	406.7	405.3
135°	441.0	441.1	440.9	440.6	440.3	440.1	439.3	437.9	436.5	435.0	433.6
137.5°	470.0	470.1	469.8	469.5	469.2	468.8	468.1	467.0	465.7	464.6	463.4
140°	489.5	489.5	488.9	488.2	487.6	487.0	486.0	484.8	483.7	482.6	481.4
142.5°	507.1	507.0	506.5	506.1	505.7	505.2	504.4	503.3	502.2	501.0	499.9
145°	533.9	533.8	533.1	532.3	531.5	530.8	530.0	529.1	528.2	527.3	526.3
147.5°	557.3	557.1	556.5	556.0	555.5	555.0	554.2	553.2	552.1	551.0	550.0
150°	572.2	571.9	571.3	570.8	570.3	569.8	569.2	568.4	567.6	566.8	566.1
152.5°	587.0	586.6	585.9	585.3	584.7	584.1	583.4	582.7	581.9	581.2	580.4
155°	605.9	605.2	604.8	604.5	604.1	603.7	603.3	602.9	602.6	602.2	601.8
157.5°	623.2	622.3	622.1	621.9	621.6	621.4	621.2	620.9	620.6	620.4	620.1
160°	633.7	632.9	632.8	632.6	632.5	632.4	632.2	631.9	631.7	631.4	631.2
162.5°	643.0	642.1	642.0	641.9	641.7	641.6	641.5	641.5	641.4	641.4	641.3
165°	655.1	654.2	654.2	654.2	654.2	654.2	654.3	654.4	654.5	654.6	654.8
167.5°	665.1	664.2	664.2	664.3	664.3	664.3	664.5	664.9	665.3	665.7	666.0
170°	670.7	669.7	669.8	669.9	670.1	670.2	670.6	670.9	671.3	671.7	672.1
172.5°	674.8	673.9	674.0	674.2	674.3	674.4	674.7	675.0	675.4	675.8	676.2
175°	679.2	678.3	678.6	678.9	679.1	679.4	679.7	680.1	680.4	680.9	681.3
177.5°	681.7	681.1	681.3	681.5	681.7	681.9	682.1	682.4	682.7	683.0	683.4
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1752.7	1755.3	1763.9	1772.5	1782.2	1784.8	1789.2	1785.4	1784.3	1794.5	1802.0
5°	1757.7	1769.7	1793.2	1814.6	1832.7	1845.4	1858.9	1864.2	1874.2	1888.3	1905.7
7.5°	1752.0	1775.4	1812.3	1843.6	1877.6	1902.1	1921.3	1937.6	1957.5	1984.2	2013.3
10°	1745.6	1777.1	1822.0	1860.2	1901.7	1933.2	1959.3	1984.8	2014.3	2051.1	2089.3
12.5°	1733.8	1771.2	1827.4	1872.5	1925.8	1956.8	1992.1	2047.0	2078.6	2130.0	2183.7
15°	1710.1	1751.6	1830.0	1885.6	1945.9	2004.9	2069.9	2122.2	2174.4	2204.6	2280.4
17.5°	1674.9	1735.9	1822.6	1887.5	1964.2	2057.1	2130.1	2189.3	2249.7	2298.6	2336.5
20°	1646.4	1712.7	1811.9	1889.7	1980.7	2080.6	2164.4	2224.7	2276.9	2317.8	2341.3
22.5°	1610.5	1693.9	1790.5	1881.6	1997.9	2096.7	2184.7	2232.2	2275.9	2295.8	2304.8
25°	1554.0	1654.5	1763.7	1874.9	2006.3	2110.8	2191.2	2220.0	2232.7	2213.3	2181.1
27.5°	1493.0	1605.0	1732.7	1862.3	2001.1	2101.6	2159.3	2154.7	2133.1	2070.3	2020.0
30°	1447.4	1570.7	1708.1	1849.5	1988.8	2086.7	2120.2	2086.7	2037.7	1967.4	1895.7
32.5°	1399.7	1527.3	1681.8	1831.2	1966.3	2052.3	2059.6	2002.0	1926.2	1846.2	1756.9
35°	1327.5	1465.5	1632.3	1790.5	1918.4	1972.8	1940.6	1838.8	1749.0	1639.7	1517.7
37.5°	1245.9	1398.3	1565.6	1730.8	1846.7	1861.0	1781.1	1673.9	1547.2	1418.9	1275.4
40°	1184.8	1346.3	1518.4	1685.3	1787.8	1773.0	1671.2	1553.3	1402.5	1245.7	1112.4
42.5°	1130.0	1291.5	1466.9	1630.6	1712.7	1672.2	1553.3	1408.6	1246.5	1098.8	976.7
45°	1035.3	1201.4	1381.1	1539.2	1586.1	1513.1	1355.6	1194.8	1035.3	912.0	815.5
47.5°	943.3	1107.6	1285.5	1424.5	1441.1	1342.8	1170.7	1005.3	868.2	767.8	699.7
50°	875.9	1040.7	1216.9	1340.9	1335.4	1216.9	1040.0	882.5	767.9	686.8	641.3
52.5°	815.3	971.0	1140.2	1252.9	1224.6	1095.2	926.3	786.6	692.4	628.9	587.6
55°	721.0	865.1	1025.9	1116.4	1064.1	920.7	778.0	665.4	595.7	548.2	515.9
57.5°	627.4	762.5	900.2	955.9	898.2	765.8	646.8	565.1	512.7	477.5	456.6
60°	569.6	687.5	810.1	858.4	789.4	671.5	577.6	504.6	462.3	433.5	414.8
62.5°	511.7	617.3	733.0	759.2	696.1	596.4	513.3	452.6	417.9	392.2	374.6
65°	432.9	519.3	607.1	624.5	566.2	489.2	423.5	384.0	353.1	334.4	320.3
67.5°	355.0	424.4	486.7	500.7	449.6	396.2	348.7	314.3	293.4	277.8	265.9
70°	308.9	363.9	414.8	426.2	385.3	337.7	301.5	274.1	255.3	241.9	230.6
72.5°	260.1	306.0	348.3	356.0	322.6	286.3	256.5	234.9	218.3	209.7	198.8
75°	199.0	225.8	258.6	260.6	238.5	216.4	193.7	179.6	170.9	160.2	154.8
77.5°	140.5	161.5	180.3	183.9	170.8	155.7	143.0	131.9	124.5	119.6	114.6
80°	107.2	124.0	132.0	136.7	127.3	116.6	109.3	101.9	97.1	93.8	90.5
82.5°	76.6	86.9	94.5	98.1	93.0	86.5	79.2	75.0	71.4	68.6	67.5
85°	38.9	43.5	48.3	49.6	48.3	45.5	41.5	41.5	39.5	38.9	38.9
87.5°	13.8	16.3	16.6	18.5	17.9	18.4	19.0	19.0	19.1	18.5	17.9
90°	2.1	3.6	5.2	6.8	8.9	11.7	14.5	17.4	20.2	19.9	19.7
92.5°	11.4	12.5	13.6	14.7	15.7	16.4	17.0	17.7	18.3	18.4	18.4
95°	31.2	32.5	33.8	35.0	35.9	36.1	36.4	36.6	36.9	36.9	36.9
97.5°	55.8	57.0	58.1	59.2	60.0	60.5	61.0	61.5	62.0	62.0	62.0
100°	74.1	75.1	76.2	77.3	78.0	78.4	78.7	79.1	79.5	79.5	79.5
102.5°	93.3	94.1	94.9	95.7	96.4	96.9	97.4	97.9	98.4	98.5	98.6
105°	124.2	124.6	124.9	125.3	125.6	125.9	126.1	126.4	126.7	126.9	127.2
107.5°	155.9	156.5	157.0	157.6	157.9	157.9	157.9	157.9	157.9	158.0	158.1
110°	176.4	177.1	177.9	178.7	179.0	179.0	179.0	179.0	179.0	179.0	179.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	198.5	199.2	200.1	200.9	201.2	201.1	201.0	200.9	200.8	200.5	200.2
115°	231.2	231.9	232.7	233.4	233.7	233.4	233.2	232.9	232.7	232.6	232.4
117.5°	263.9	264.9	265.9	266.9	267.1	266.4	265.6	264.9	264.2	263.9	263.6
120°	285.5	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5	284.5	284.5
122.5°	305.5	306.8	308.0	309.2	309.4	308.7	308.0	307.3	306.6	306.3	306.0
125°	336.3	337.5	338.6	339.7	340.1	339.7	339.4	339.0	338.6	338.2	337.8
127.5°	366.7	368.1	369.6	371.0	371.5	371.1	370.6	370.2	369.7	369.2	368.8
130°	385.8	387.4	389.1	390.7	391.4	391.2	390.9	390.7	390.4	390.2	389.9
132.5°	406.7	408.0	409.4	410.7	411.4	411.5	411.5	411.6	411.6	411.1	410.5
135°	435.0	436.5	437.9	439.3	440.1	440.3	440.6	440.9	441.1	441.0	440.9
137.5°	464.6	465.7	467.0	468.1	468.8	469.2	469.5	469.8	470.1	470.0	469.9
140°	482.6	483.7	484.8	486.0	487.0	487.6	488.2	488.9	489.5	489.5	489.5
142.5°	501.0	502.2	503.3	504.4	505.2	505.7	506.1	506.5	507.0	507.1	507.2
145°	527.3	528.2	529.1	530.0	530.8	531.5	532.3	533.1	533.8	533.9	534.1
147.5°	551.0	552.1	553.2	554.2	555.0	555.5	556.0	556.5	557.1	557.3	557.6
150°	566.8	567.6	568.4	569.2	569.8	570.3	570.8	571.3	571.9	572.2	572.6
152.5°	581.2	581.9	582.7	583.4	584.1	584.7	585.3	585.9	586.6	587.0	587.5
155°	602.2	602.6	602.9	603.3	603.7	604.1	604.5	604.8	605.2	605.9	606.5
157.5°	620.4	620.6	620.9	621.2	621.4	621.6	621.9	622.1	622.3	623.2	624.0
160°	631.4	631.7	631.9	632.2	632.4	632.5	632.6	632.8	632.9	633.7	634.4
162.5°	641.4	641.4	641.5	641.5	641.6	641.7	641.9	642.0	642.1	643.0	643.8
165°	654.6	654.5	654.4	654.3	654.2	654.2	654.2	654.2	654.2	655.1	656.0
167.5°	665.7	665.3	664.9	664.5	664.3	664.3	664.3	664.2	664.2	665.1	666.0
170°	671.7	671.3	670.9	670.6	670.2	670.1	669.9	669.8	669.7	670.7	671.6
172.5°	675.8	675.4	675.0	674.7	674.4	674.3	674.2	674.0	673.9	674.8	675.7
175°	680.9	680.4	680.1	679.7	679.4	679.1	678.9	678.6	678.3	679.2	680.1
177.5°	683.0	682.7	682.4	682.1	681.9	681.7	681.5	681.3	681.1	681.7	682.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1808.5	1815.9	1815.9	1817.1	1825.6	1824.5	1824.0
5°	1924.5	1935.9	1937.2	1949.3	1957.3	1954.7	1947.3
7.5°	2034.0	2055.2	2071.2	2080.2	2090.8	2097.4	2094.5
10°	2120.8	2151.6	2170.4	2183.1	2198.6	2210.0	2205.9
12.5°	2199.7	2236.3	2262.1	2283.9	2285.9	2300.6	2290.7
15°	2322.6	2361.4	2365.4	2381.5	2394.3	2392.9	2393.6
17.5°	2363.2	2375.6	2378.1	2378.5	2378.7	2374.0	2363.8
20°	2348.6	2344.0	2332.6	2323.9	2308.5	2306.4	2293.1
22.5°	2280.1	2265.2	2236.6	2217.8	2193.7	2187.5	2183.7
25°	2145.0	2112.1	2066.6	2023.0	2010.9	1987.5	1994.2
27.5°	1959.6	1908.4	1859.1	1823.7	1791.7	1756.6	1766.7
30°	1829.4	1771.7	1702.0	1648.4	1614.3	1580.7	1574.7
32.5°	1673.9	1589.4	1511.8	1464.5	1412.2	1391.0	1367.8
35°	1405.8	1323.4	1246.4	1180.0	1141.9	1112.4	1085.5
37.5°	1164.8	1069.9	1007.6	953.9	926.3	909.5	913.7
40°	1015.2	932.1	886.6	845.7	820.2	808.1	810.8
42.5°	894.0	831.8	794.4	766.3	748.3	741.6	740.0
45°	756.5	721.6	690.8	674.8	666.1	658.7	654.0
47.5°	662.7	634.3	616.9	607.3	599.8	592.2	592.1
50°	606.4	587.6	575.6	565.5	559.6	554.2	558.9
52.5°	563.5	546.4	534.3	525.3	523.1	518.3	518.2
55°	499.9	486.5	477.8	469.7	465.7	463.0	459.7
57.5°	442.0	429.3	421.2	416.2	408.5	405.8	404.8
60°	400.7	390.6	382.6	375.9	372.5	367.2	367.2
62.5°	362.6	352.6	345.1	340.0	334.5	332.3	333.0
65°	307.6	299.5	292.2	286.8	285.5	281.4	282.8
67.5°	256.9	251.6	243.8	240.9	238.3	236.1	234.5
70°	223.2	217.8	213.8	209.7	207.7	207.7	207.7
72.5°	194.7	188.3	185.9	180.8	182.0	179.9	177.7
75°	150.8	146.7	144.7	142.7	139.4	139.4	139.4
77.5°	111.0	109.8	107.3	105.2	104.4	103.7	104.0
80°	85.7	85.1	83.7	83.7	82.4	81.8	80.4
82.5°	65.9	64.2	63.4	62.8	62.6	62.4	62.2
85°	37.6	36.2	36.2	36.9	35.5	35.5	36.2
87.5°	18.4	18.3	17.8	17.8	18.4	17.9	17.9
90°	19.4	19.1	19.1	19.2	19.3	19.5	19.6
92.5°	18.5	18.5	18.6	18.6	18.6	18.7	18.7
95°	36.9	36.9	36.8	36.5	36.3	36.0	35.7
97.5°	62.0	62.0	61.9	61.9	61.9	61.9	61.8
100°	79.5	79.5	79.4	79.3	79.2	79.1	78.9
102.5°	98.7	98.8	98.8	98.7	98.5	98.4	98.3
105°	127.4	127.7	127.8	127.8	127.8	127.8	127.8
107.5°	158.2	158.3	158.0	157.4	156.9	156.3	155.7
110°	179.0	179.0	178.9	178.5	178.1	177.7	177.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	199.9	199.5	199.2	198.9	198.6	198.3	198.1
115°	232.3	232.2	231.9	231.5	231.2	230.8	230.4
117.5°	263.3	263.0	262.7	262.3	261.9	261.5	261.1
120°	284.5	284.5	284.3	283.9	283.6	283.2	282.8
122.5°	305.7	305.4	305.1	304.8	304.5	304.3	304.0
125°	337.5	337.1	336.8	336.7	336.6	336.4	336.3
127.5°	368.3	367.9	367.4	367.0	366.6	366.2	365.8
130°	389.7	389.4	389.0	388.5	388.0	387.5	387.0
132.5°	409.9	409.4	408.9	408.5	408.1	407.7	407.3
135°	440.7	440.6	440.3	440.0	439.6	439.2	438.8
137.5°	469.8	469.7	469.4	468.9	468.4	467.9	467.4
140°	489.5	489.5	489.3	488.7	488.2	487.7	487.2
142.5°	507.3	507.4	507.2	506.6	506.1	505.6	505.1
145°	534.2	534.3	534.1	533.6	533.1	532.6	532.1
147.5°	558.0	558.3	558.2	557.6	557.1	556.6	556.1
150°	573.0	573.4	573.4	573.0	572.6	572.2	571.9
152.5°	588.0	588.5	588.5	588.0	587.5	587.0	586.6
155°	607.1	607.8	607.9	607.5	607.1	606.7	606.4
157.5°	624.9	625.8	625.9	625.3	624.7	624.1	623.4
160°	635.2	635.9	636.1	635.6	635.1	634.5	634.0
162.5°	644.7	645.6	645.7	645.1	644.5	643.9	643.3
165°	656.9	657.7	657.9	657.2	656.6	656.0	655.3
167.5°	666.9	667.8	667.9	667.2	666.6	665.9	665.2
170°	672.5	673.3	673.4	672.6	671.9	671.1	670.3
172.5°	676.6	677.4	677.5	676.8	676.0	675.2	674.5
175°	681.1	682.0	682.1	681.3	680.4	679.7	678.9
177.5°	682.9	683.5	683.5	682.9	682.3	681.7	681.1
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4

(END OF REPORT)