

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: P331375-840

Luminaire Tested: **SA2XXDIP-C865D330U840-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331375-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C865D330U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

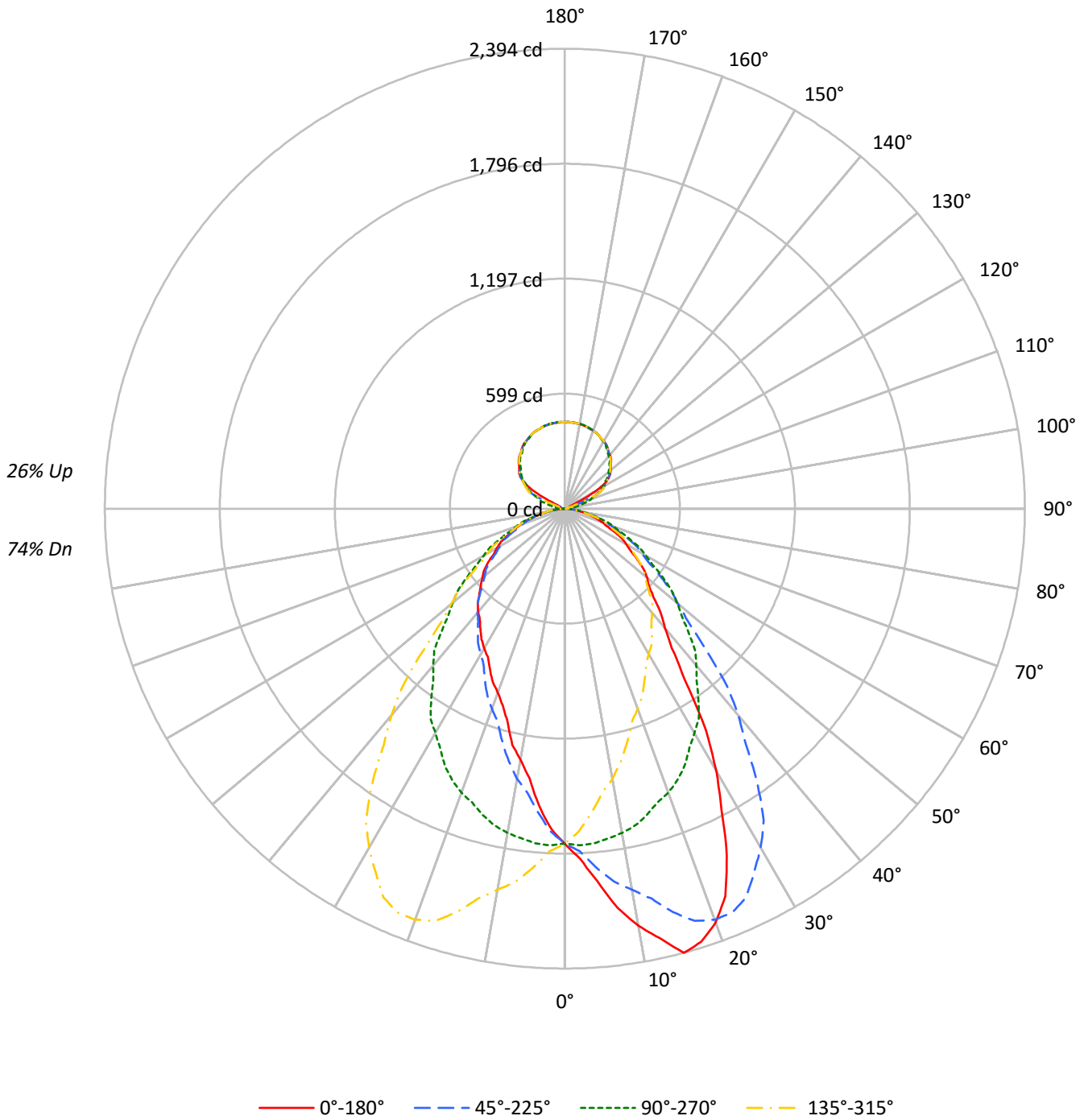
Lumens per Lamp: N/A
Luminaire Lumens: 5170.2 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 43.5
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74
1	104	100	96	93	99	95	92	89	86	84	81	78	76	74	71	69	68	64
2	95	88	82	77	90	84	79	74	76	72	68	69	66	63	63	60	58	55
3	87	78	71	65	83	75	68	63	68	63	59	62	58	54	56	53	50	47
4	80	70	62	56	76	67	60	54	61	55	51	56	51	47	51	47	44	41
5	74	63	55	49	70	60	53	47	55	49	44	51	46	42	46	42	39	36
6	69	57	49	43	65	54	47	42	50	44	39	46	41	37	42	38	35	32
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	34	31	29
8	60	47	39	34	57	45	38	33	42	36	31	39	34	30	36	31	28	26
9	56	43	36	31	53	42	35	30	39	33	28	36	31	27	33	29	26	24
10	52	40	33	28	50	39	32	27	36	30	26	33	28	25	31	27	23	22

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	3.2
10°-20°	482.7	9.3
20°-30°	700.6	13.6
30°-40°	739.3	14.3
40°-50°	654.6	12.7
50°-60°	522.4	10.1
60°-70°	355.1	6.9
70°-80°	182.0	3.5
80°-90°	45.0	0.9
90°-100°	15.1	0.3
100°-110°	55.2	1.1
110°-120°	147.6	2.9
120°-130°	243.6	4.7
130°-140°	259.0	5.0
140°-150°	240.8	4.7
150°-160°	193.6	3.7
160°-170°	124.7	2.4
170°-180°	42.9	0.8
0°-30°	1349.4	26.1
0°-40°	2088.7	40.4
0°-60°	3265.7	63.2
0°-90°	3847.8	74.4
90°-120°	217.8	4.2
90°-150°	961.2	18.6
90°-180°	1322.0	25.6
0°-180°	5170.2	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°	9	0	9	0	9	6
95°	14	21	14	21	14	13
105°	25	99	25	99	25	26
115°	27	188	27	188	27	67
125°	279	266	279	266	279	242
135°	339	328	339	328	339	261
145°	387	381	387	381	387	242
155°	420	420	420	420	420	194
165°	441	442	441	442	441	125
175°	450	452	450	452	450	43
180°	451	451	451	451	451	



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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°	15.7	15.7	16.2	15.7	15.6	16.1	16.0	15.3	15.9	16.4	16.8
90°	8.8	8.7	8.5	8.4	8.3	8.0	7.6	7.3	6.9	6.6	6.0
92.5°	8.8	8.7	8.7	8.6	8.5	8.3	8.2	8.0	7.8	7.6	7.3
95°	14.0	14.1	14.1	14.2	14.3	14.1	13.8	13.4	13.1	12.7	12.2
97.5°	18.8	18.7	18.6	18.5	18.4	18.2	17.9	17.7	17.4	17.1	15.9
100°	21.9	21.7	21.6	21.4	21.3	20.9	20.4	19.8	19.2	18.6	17.4
102.5°	23.4	23.2	23.0	22.8	22.6	22.1	21.4	20.6	19.9	19.1	29.5
105°	24.8	24.5	24.2	23.9	23.6	23.1	22.3	21.5	20.7	19.9	39.7
107.5°	25.5	25.2	24.9	24.6	24.3	24.6	25.4	26.3	27.1	27.9	51.6
110°	25.8	25.5	25.2	24.9	24.6	28.1	35.3	42.6	49.9	57.2	78.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	26.1	25.9	25.5	25.3	25.1	38.3	64.7	91.2	117.6	144.1	149.3
115°	26.8	32.0	37.3	42.4	47.7	67.1	100.7	134.3	167.8	201.5	199.7
117.5°	109.4	126.5	143.7	160.9	178.0	190.7	198.7	206.9	215.0	223.2	221.9
120°	199.1	208.9	218.7	228.5	238.3	242.8	242.0	241.1	240.2	239.3	238.0
122.5°	248.5	250.4	252.4	254.3	256.1	256.8	256.3	255.8	255.3	254.8	253.4
125°	279.1	278.9	278.7	278.5	278.3	277.9	277.4	276.9	276.4	275.9	274.5
127.5°	298.5	298.4	298.4	298.4	298.3	297.9	297.2	296.5	295.7	295.0	294.0
130°	310.5	310.6	310.6	310.7	310.8	310.4	309.6	308.8	308.0	307.3	306.5
132.5°	322.2	322.3	322.4	322.4	322.6	322.2	321.5	320.9	320.2	319.5	318.7
135°	339.2	339.4	339.5	339.7	339.8	339.5	338.8	338.1	337.4	336.7	336.0
137.5°	354.8	355.0	355.3	355.5	355.7	355.5	354.8	354.1	353.4	352.6	351.9
140°	364.4	364.8	365.2	365.5	365.9	365.7	365.1	364.4	363.8	363.0	362.3
142.5°	373.8	374.2	374.6	374.9	375.3	375.2	374.6	374.0	373.3	372.7	371.8
145°	386.9	387.3	387.7	388.0	388.4	388.3	387.8	387.3	386.8	386.3	385.1
147.5°	398.5	398.8	399.1	399.4	399.7	399.7	399.3	398.9	398.5	398.2	397.0
150°	405.6	405.9	406.3	406.7	407.0	407.0	406.5	406.1	405.7	405.3	404.0
152.5°	411.5	412.0	412.5	412.9	413.4	413.4	413.0	412.6	412.1	411.7	410.6
155°	419.9	420.5	421.1	421.6	422.2	422.3	421.8	421.4	421.0	420.5	419.7
157.5°	427.6	428.1	428.7	429.2	429.8	429.8	429.4	428.9	428.4	427.9	427.3
160°	432.0	432.5	433.0	433.5	434.0	434.0	433.6	433.2	432.7	432.3	431.9
162.5°	435.7	436.3	436.9	437.5	438.2	438.2	437.7	437.2	436.8	436.3	435.9
165°	441.1	441.6	442.1	442.6	443.1	443.1	442.6	442.1	441.6	441.1	440.9
167.5°	444.5	445.2	445.9	446.6	447.2	447.3	446.8	446.3	445.8	445.2	445.0
170°	446.7	447.4	448.0	448.7	449.3	449.4	448.9	448.4	447.9	447.4	447.2
172.5°	448.3	448.9	449.6	450.2	450.9	450.9	450.4	449.9	449.4	448.9	448.8
175°	449.6	450.3	451.1	451.8	452.5	452.6	452.1	451.6	451.1	450.6	450.5
177.5°	450.5	451.0	451.5	452.0	452.5	452.6	452.2	451.8	451.4	451.0	450.9
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



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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°	17.2	17.1	17.0	17.9	16.1	16.0	13.6	11.8	11.5	11.1	10.2
90°	5.4	4.7	4.2	3.5	2.7	1.9	1.1	0.3	1.1	1.9	2.7
92.5°	7.0	6.7	6.5	6.3	6.4	6.5	6.6	6.6	6.6	6.5	6.4
95°	11.7	11.2	10.7	11.6	14.0	16.5	18.8	21.2	18.8	16.5	14.0
97.5°	14.6	13.5	12.3	15.1	21.9	28.6	35.3	42.1	35.3	28.6	21.9
100°	16.2	14.9	13.6	18.1	28.0	37.9	47.9	57.8	47.9	37.9	28.0
102.5°	39.8	50.1	60.4	66.7	68.8	70.8	72.9	75.0	72.9	70.8	68.8
105°	59.6	79.4	99.2	108.0	105.8	103.6	101.4	99.3	101.4	103.6	105.8
107.5°	75.4	99.2	122.9	133.9	132.2	130.4	128.7	126.8	128.7	130.4	132.2
110°	99.1	120.1	141.0	150.8	149.3	147.7	146.1	144.6	146.1	147.7	149.3



TEST NUMBER: P331375-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	154.5	159.7	164.8	166.7	165.4	164.1	162.7	161.4	162.7	164.1	165.4
115°	197.8	196.0	194.2	192.7	191.5	190.3	188.9	187.7	188.9	190.3	191.5
117.5°	220.7	219.4	218.1	216.8	215.5	214.1	212.7	211.4	212.7	214.1	215.5
120°	236.7	235.4	234.1	232.9	231.9	230.8	229.6	228.5	229.6	230.8	231.9
122.5°	251.9	250.4	249.0	247.8	246.6	245.5	244.4	243.2	244.4	245.5	246.6
125°	273.2	271.8	270.4	269.2	268.3	267.3	266.4	265.5	266.4	267.3	268.3
127.5°	293.0	291.9	290.8	289.8	288.8	287.7	286.7	285.6	286.7	287.7	288.8
130°	305.7	304.9	304.1	303.1	301.9	300.7	299.6	298.4	299.6	300.7	301.9
132.5°	317.9	317.1	316.3	315.5	314.5	313.5	312.5	311.5	312.5	313.5	314.5
135°	335.4	334.7	334.1	333.2	331.9	330.8	329.6	328.5	329.6	330.8	331.9
137.5°	351.1	350.4	349.7	348.9	348.1	347.3	346.5	345.7	346.5	347.3	348.1
140°	361.5	360.7	359.9	359.2	358.6	358.0	357.5	356.9	357.5	358.0	358.6
142.5°	370.9	370.0	369.1	368.4	367.9	367.3	366.8	366.3	366.8	367.3	367.9
145°	383.8	382.5	381.3	380.7	380.8	380.9	381.0	381.0	381.0	380.9	380.8
147.5°	395.8	394.5	393.2	392.8	393.0	393.3	393.6	393.9	393.6	393.3	393.0
150°	402.9	401.7	400.6	400.2	400.7	401.2	401.7	402.2	401.7	401.2	400.7
152.5°	409.5	408.4	407.3	407.1	407.6	408.2	408.8	409.3	408.8	408.2	407.6
155°	418.8	418.0	417.1	417.0	417.6	418.3	418.9	419.6	418.9	418.3	417.6
157.5°	426.7	426.1	425.5	425.4	426.0	426.5	427.1	427.6	427.1	426.5	426.0
160°	431.4	431.0	430.6	430.6	431.0	431.4	431.9	432.3	431.9	431.4	431.0
162.5°	435.5	435.0	434.7	434.7	435.2	435.7	436.1	436.5	436.1	435.7	435.2
165°	440.7	440.5	440.3	440.4	440.8	441.2	441.7	442.1	441.7	441.2	440.8
167.5°	444.8	444.6	444.4	444.5	444.9	445.5	445.9	446.3	445.9	445.5	444.9
170°	447.1	446.9	446.8	446.9	447.4	447.8	448.2	448.7	448.2	447.8	447.4
172.5°	448.6	448.5	448.3	448.5	448.9	449.3	449.8	450.2	449.8	449.3	448.9
175°	450.3	450.2	450.0	450.2	450.7	451.2	451.7	452.2	451.7	451.2	450.7
177.5°	450.9	450.8	450.8	450.9	451.3	451.7	452.1	452.5	452.1	451.7	451.3
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



TEST NUMBER: P331375-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A

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°	9.8	9.4	9.0	9.1	8.7	8.3	7.8	7.9	8.0	7.0	7.0
90°	3.5	4.2	4.7	5.4	6.0	6.6	6.9	7.3	7.6	8.0	8.3
92.5°	6.3	6.5	6.7	7.0	7.3	7.6	7.8	8.0	8.2	8.3	8.5
95°	11.6	10.7	11.2	11.7	12.2	12.7	13.1	13.4	13.8	14.1	14.3
97.5°	15.1	12.3	13.5	14.6	15.9	17.1	17.4	17.7	17.9	18.2	18.4
100°	18.1	13.6	14.9	16.2	17.4	18.6	19.2	19.8	20.4	20.9	21.3
102.5°	66.7	60.4	50.1	39.8	29.5	19.1	19.9	20.6	21.4	22.1	22.6
105°	108.0	99.2	79.4	59.6	39.7	19.9	20.7	21.5	22.3	23.1	23.6
107.5°	133.9	122.9	99.2	75.4	51.6	27.9	27.1	26.3	25.4	24.6	24.3
110°	150.8	141.0	120.1	99.1	78.1	57.2	49.9	42.6	35.3	28.1	24.6



TEST NUMBER: P331375-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	166.7	164.8	159.7	154.5	149.3	144.1	117.6	91.2	64.7	38.3	25.1
115°	192.7	194.2	196.0	197.8	199.7	201.5	167.8	134.3	100.7	67.1	47.7
117.5°	216.8	218.1	219.4	220.7	221.9	223.2	215.0	206.9	198.7	190.7	178.0
120°	232.9	234.1	235.4	236.7	238.0	239.3	240.2	241.1	242.0	242.8	238.3
122.5°	247.8	249.0	250.4	251.9	253.4	254.8	255.3	255.8	256.3	256.8	256.1
125°	269.2	270.4	271.8	273.2	274.5	275.9	276.4	276.9	277.4	277.9	278.3
127.5°	289.8	290.8	291.9	293.0	294.0	295.0	295.7	296.5	297.2	297.9	298.3
130°	303.1	304.1	304.9	305.7	306.5	307.3	308.0	308.8	309.6	310.4	310.8
132.5°	315.5	316.3	317.1	317.9	318.7	319.5	320.2	320.9	321.5	322.2	322.6
135°	333.2	334.1	334.7	335.4	336.0	336.7	337.4	338.1	338.8	339.5	339.8
137.5°	348.9	349.7	350.4	351.1	351.9	352.6	353.4	354.1	354.8	355.5	355.7
140°	359.2	359.9	360.7	361.5	362.3	363.0	363.8	364.4	365.1	365.7	365.9
142.5°	368.4	369.1	370.0	370.9	371.8	372.7	373.3	374.0	374.6	375.2	375.3
145°	380.7	381.3	382.5	383.8	385.1	386.3	386.8	387.3	387.8	388.3	388.4
147.5°	392.8	393.2	394.5	395.8	397.0	398.2	398.5	398.9	399.3	399.7	399.7
150°	400.2	400.6	401.7	402.9	404.0	405.3	405.7	406.1	406.5	407.0	407.0
152.5°	407.1	407.3	408.4	409.5	410.6	411.7	412.1	412.6	413.0	413.4	413.4
155°	417.0	417.1	418.0	418.8	419.7	420.5	421.0	421.4	421.8	422.3	422.2
157.5°	425.4	425.5	426.1	426.7	427.3	427.9	428.4	428.9	429.4	429.8	429.8
160°	430.6	430.6	431.0	431.4	431.9	432.3	432.7	433.2	433.6	434.0	434.0
162.5°	434.7	434.7	435.0	435.5	435.9	436.3	436.8	437.2	437.7	438.2	438.2
165°	440.4	440.3	440.5	440.7	440.9	441.1	441.6	442.1	442.6	443.1	443.1
167.5°	444.5	444.4	444.6	444.8	445.0	445.2	445.8	446.3	446.8	447.3	447.2
170°	446.9	446.8	446.9	447.1	447.2	447.4	447.9	448.4	448.9	449.4	449.3
172.5°	448.5	448.3	448.5	448.6	448.8	448.9	449.4	449.9	450.4	450.9	450.9
175°	450.2	450.0	450.2	450.3	450.5	450.6	451.1	451.6	452.1	452.6	452.5
177.5°	450.9	450.8	450.8	450.9	450.9	451.0	451.4	451.8	452.2	452.6	452.5
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



TEST NUMBER: P331375-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A

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°	7.1	6.6	6.6	6.1	6.6	6.6	7.1	7.0	7.0	8.0	7.9
90°	8.4	8.5	8.7	8.8	8.7	8.5	8.4	8.3	8.0	7.6	7.3
92.5°	8.6	8.7	8.7	8.8	8.7	8.7	8.6	8.5	8.3	8.2	8.0
95°	14.2	14.1	14.1	14.0	14.1	14.1	14.2	14.3	14.1	13.8	13.4
97.5°	18.5	18.6	18.7	18.8	18.7	18.6	18.5	18.4	18.2	17.9	17.7
100°	21.4	21.6	21.7	21.9	21.7	21.6	21.4	21.3	20.9	20.4	19.8
102.5°	22.8	23.0	23.2	23.4	23.2	23.0	22.8	22.6	22.1	21.4	20.6
105°	23.9	24.2	24.5	24.8	24.5	24.2	23.9	23.6	23.1	22.3	21.5
107.5°	24.6	24.9	25.2	25.5	25.2	24.9	24.6	24.3	24.6	25.4	26.3
110°	24.9	25.2	25.5	25.8	25.5	25.2	24.9	24.6	28.1	35.3	42.6



TEST NUMBER: P331375-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	25.3	25.5	25.9	26.1	25.9	25.5	25.3	25.1	38.3	64.7	91.2
115°	42.4	37.3	32.0	26.8	32.0	37.3	42.4	47.7	67.1	100.7	134.3
117.5°	160.9	143.7	126.5	109.4	126.5	143.7	160.9	178.0	190.7	198.7	206.9
120°	228.5	218.7	208.9	199.1	208.9	218.7	228.5	238.3	242.8	242.0	241.1
122.5°	254.3	252.4	250.4	248.5	250.4	252.4	254.3	256.1	256.8	256.3	255.8
125°	278.5	278.7	278.9	279.1	278.9	278.7	278.5	278.3	277.9	277.4	276.9
127.5°	298.4	298.4	298.4	298.5	298.4	298.4	298.4	298.3	297.9	297.2	296.5
130°	310.7	310.6	310.6	310.5	310.6	310.6	310.7	310.8	310.4	309.6	308.8
132.5°	322.4	322.4	322.3	322.2	322.3	322.4	322.4	322.6	322.2	321.5	320.9
135°	339.7	339.5	339.4	339.2	339.4	339.5	339.7	339.8	339.5	338.8	338.1
137.5°	355.5	355.3	355.0	354.8	355.0	355.3	355.5	355.7	355.5	354.8	354.1
140°	365.5	365.2	364.8	364.4	364.8	365.2	365.5	365.9	365.7	365.1	364.4
142.5°	374.9	374.6	374.2	373.8	374.2	374.6	374.9	375.3	375.2	374.6	374.0
145°	388.0	387.7	387.3	386.9	387.3	387.7	388.0	388.4	388.3	387.8	387.3
147.5°	399.4	399.1	398.8	398.5	398.8	399.1	399.4	399.7	399.7	399.3	398.9
150°	406.7	406.3	405.9	405.6	405.9	406.3	406.7	407.0	407.0	406.5	406.1
152.5°	412.9	412.5	412.0	411.5	412.0	412.5	412.9	413.4	413.4	413.0	412.6
155°	421.6	421.1	420.5	419.9	420.5	421.1	421.6	422.2	422.3	421.8	421.4
157.5°	429.2	428.7	428.1	427.6	428.1	428.7	429.2	429.8	429.8	429.4	428.9
160°	433.5	433.0	432.5	432.0	432.5	433.0	433.5	434.0	434.0	433.6	433.2
162.5°	437.5	436.9	436.3	435.7	436.3	436.9	437.5	438.2	438.2	437.7	437.2
165°	442.6	442.1	441.6	441.1	441.6	442.1	442.6	443.1	443.1	442.6	442.1
167.5°	446.6	445.9	445.2	444.5	445.2	445.9	446.6	447.2	447.3	446.8	446.3
170°	448.7	448.0	447.4	446.7	447.4	448.0	448.7	449.3	449.4	448.9	448.4
172.5°	450.2	449.6	448.9	448.3	448.9	449.6	450.2	450.9	450.9	450.4	449.9
175°	451.8	451.1	450.3	449.6	450.3	451.1	451.8	452.5	452.6	452.1	451.6
177.5°	452.0	451.5	451.0	450.5	451.0	451.5	452.0	452.5	452.6	452.2	451.8
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



TEST NUMBER: P331375-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A

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°	7.8	8.3	8.7	9.1	9.0	9.4	9.8	10.2	11.1	11.5	11.8
90°	6.9	6.6	6.0	5.4	4.7	4.2	3.5	2.7	1.9	1.1	0.3
92.5°	7.8	7.6	7.3	7.0	6.7	6.5	6.3	6.4	6.5	6.6	6.6
95°	13.1	12.7	12.2	11.7	11.2	10.7	11.6	14.0	16.5	18.8	21.2
97.5°	17.4	17.1	15.9	14.6	13.5	12.3	15.1	21.9	28.6	35.3	42.1
100°	19.2	18.6	17.4	16.2	14.9	13.6	18.1	28.0	37.9	47.9	57.8
102.5°	19.9	19.1	29.5	39.8	50.1	60.4	66.7	68.8	70.8	72.9	75.0
105°	20.7	19.9	39.7	59.6	79.4	99.2	108.0	105.8	103.6	101.4	99.3
107.5°	27.1	27.9	51.6	75.4	99.2	122.9	133.9	132.2	130.4	128.7	126.8
110°	49.9	57.2	78.1	99.1	120.1	141.0	150.8	149.3	147.7	146.1	144.6



TEST NUMBER: P331375-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	117.6	144.1	149.3	154.5	159.7	164.8	166.7	165.4	164.1	162.7	161.4
115°	167.8	201.5	199.7	197.8	196.0	194.2	192.7	191.5	190.3	188.9	187.7
117.5°	215.0	223.2	221.9	220.7	219.4	218.1	216.8	215.5	214.1	212.7	211.4
120°	240.2	239.3	238.0	236.7	235.4	234.1	232.9	231.9	230.8	229.6	228.5
122.5°	255.3	254.8	253.4	251.9	250.4	249.0	247.8	246.6	245.5	244.4	243.2
125°	276.4	275.9	274.5	273.2	271.8	270.4	269.2	268.3	267.3	266.4	265.5
127.5°	295.7	295.0	294.0	293.0	291.9	290.8	289.8	288.8	287.7	286.7	285.6
130°	308.0	307.3	306.5	305.7	304.9	304.1	303.1	301.9	300.7	299.6	298.4
132.5°	320.2	319.5	318.7	317.9	317.1	316.3	315.5	314.5	313.5	312.5	311.5
135°	337.4	336.7	336.0	335.4	334.7	334.1	333.2	331.9	330.8	329.6	328.5
137.5°	353.4	352.6	351.9	351.1	350.4	349.7	348.9	348.1	347.3	346.5	345.7
140°	363.8	363.0	362.3	361.5	360.7	359.9	359.2	358.6	358.0	357.5	356.9
142.5°	373.3	372.7	371.8	370.9	370.0	369.1	368.4	367.9	367.3	366.8	366.3
145°	386.8	386.3	385.1	383.8	382.5	381.3	380.7	380.8	380.9	381.0	381.0
147.5°	398.5	398.2	397.0	395.8	394.5	393.2	392.8	393.0	393.3	393.6	393.9
150°	405.7	405.3	404.0	402.9	401.7	400.6	400.2	400.7	401.2	401.7	402.2
152.5°	412.1	411.7	410.6	409.5	408.4	407.3	407.1	407.6	408.2	408.8	409.3
155°	421.0	420.5	419.7	418.8	418.0	417.1	417.0	417.6	418.3	418.9	419.6
157.5°	428.4	427.9	427.3	426.7	426.1	425.5	425.4	426.0	426.5	427.1	427.6
160°	432.7	432.3	431.9	431.4	431.0	430.6	430.6	431.0	431.4	431.9	432.3
162.5°	436.8	436.3	435.9	435.5	435.0	434.7	434.7	435.2	435.7	436.1	436.5
165°	441.6	441.1	440.9	440.7	440.5	440.3	440.4	440.8	441.2	441.7	442.1
167.5°	445.8	445.2	445.0	444.8	444.6	444.4	444.5	444.9	445.5	445.9	446.3
170°	447.9	447.4	447.2	447.1	446.9	446.8	446.9	447.4	447.8	448.2	448.7
172.5°	449.4	448.9	448.8	448.6	448.5	448.3	448.5	448.9	449.3	449.8	450.2
175°	451.1	450.6	450.5	450.3	450.2	450.0	450.2	450.7	451.2	451.7	452.2
177.5°	451.4	451.0	450.9	450.9	450.8	450.8	450.9	451.3	451.7	452.1	452.5
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



TEST NUMBER: P331375-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A

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°	13.6	16.0	16.1	17.9	17.0	17.1	17.2	16.8	16.4	15.9	15.3
90°	1.1	1.9	2.7	3.5	4.2	4.7	5.4	6.0	6.6	6.9	7.3
92.5°	6.6	6.5	6.4	6.3	6.5	6.7	7.0	7.3	7.6	7.8	8.0
95°	18.8	16.5	14.0	11.6	10.7	11.2	11.7	12.2	12.7	13.1	13.4
97.5°	35.3	28.6	21.9	15.1	12.3	13.5	14.6	15.9	17.1	17.4	17.7
100°	47.9	37.9	28.0	18.1	13.6	14.9	16.2	17.4	18.6	19.2	19.8
102.5°	72.9	70.8	68.8	66.7	60.4	50.1	39.8	29.5	19.1	19.9	20.6
105°	101.4	103.6	105.8	108.0	99.2	79.4	59.6	39.7	19.9	20.7	21.5
107.5°	128.7	130.4	132.2	133.9	122.9	99.2	75.4	51.6	27.9	27.1	26.3
110°	146.1	147.7	149.3	150.8	141.0	120.1	99.1	78.1	57.2	49.9	42.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	162.7	164.1	165.4	166.7	164.8	159.7	154.5	149.3	144.1	117.6	91.2
115°	188.9	190.3	191.5	192.7	194.2	196.0	197.8	199.7	201.5	167.8	134.3
117.5°	212.7	214.1	215.5	216.8	218.1	219.4	220.7	221.9	223.2	215.0	206.9
120°	229.6	230.8	231.9	232.9	234.1	235.4	236.7	238.0	239.3	240.2	241.1
122.5°	244.4	245.5	246.6	247.8	249.0	250.4	251.9	253.4	254.8	255.3	255.8
125°	266.4	267.3	268.3	269.2	270.4	271.8	273.2	274.5	275.9	276.4	276.9
127.5°	286.7	287.7	288.8	289.8	290.8	291.9	293.0	294.0	295.0	295.7	296.5
130°	299.6	300.7	301.9	303.1	304.1	304.9	305.7	306.5	307.3	308.0	308.8
132.5°	312.5	313.5	314.5	315.5	316.3	317.1	317.9	318.7	319.5	320.2	320.9
135°	329.6	330.8	331.9	333.2	334.1	334.7	335.4	336.0	336.7	337.4	338.1
137.5°	346.5	347.3	348.1	348.9	349.7	350.4	351.1	351.9	352.6	353.4	354.1
140°	357.5	358.0	358.6	359.2	359.9	360.7	361.5	362.3	363.0	363.8	364.4
142.5°	366.8	367.3	367.9	368.4	369.1	370.0	370.9	371.8	372.7	373.3	374.0
145°	381.0	380.9	380.8	380.7	381.3	382.5	383.8	385.1	386.3	386.8	387.3
147.5°	393.6	393.3	393.0	392.8	393.2	394.5	395.8	397.0	398.2	398.5	398.9
150°	401.7	401.2	400.7	400.2	400.6	401.7	402.9	404.0	405.3	405.7	406.1
152.5°	408.8	408.2	407.6	407.1	407.3	408.4	409.5	410.6	411.7	412.1	412.6
155°	418.9	418.3	417.6	417.0	417.1	418.0	418.8	419.7	420.5	421.0	421.4
157.5°	427.1	426.5	426.0	425.4	425.5	426.1	426.7	427.3	427.9	428.4	428.9
160°	431.9	431.4	431.0	430.6	430.6	431.0	431.4	431.9	432.3	432.7	433.2
162.5°	436.1	435.7	435.2	434.7	434.7	435.0	435.5	435.9	436.3	436.8	437.2
165°	441.7	441.2	440.8	440.4	440.3	440.5	440.7	440.9	441.1	441.6	442.1
167.5°	445.9	445.5	444.9	444.5	444.4	444.6	444.8	445.0	445.2	445.8	446.3
170°	448.2	447.8	447.4	446.9	446.8	446.9	447.1	447.2	447.4	447.9	448.4
172.5°	449.8	449.3	448.9	448.5	448.3	448.5	448.6	448.8	448.9	449.4	449.9
175°	451.7	451.2	450.7	450.2	450.0	450.2	450.3	450.5	450.6	451.1	451.6
177.5°	452.1	451.7	451.3	450.9	450.8	450.8	450.9	450.9	451.0	451.4	451.8
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2



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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°	16.0	16.1	15.6	15.7	16.2	15.7	15.7
90°	7.6	8.0	8.3	8.4	8.5	8.7	8.8
92.5°	8.2	8.3	8.5	8.6	8.7	8.7	8.8
95°	13.8	14.1	14.3	14.2	14.1	14.1	14.0
97.5°	17.9	18.2	18.4	18.5	18.6	18.7	18.8
100°	20.4	20.9	21.3	21.4	21.6	21.7	21.9
102.5°	21.4	22.1	22.6	22.8	23.0	23.2	23.4
105°	22.3	23.1	23.6	23.9	24.2	24.5	24.8
107.5°	25.4	24.6	24.3	24.6	24.9	25.2	25.5
110°	35.3	28.1	24.6	24.9	25.2	25.5	25.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	64.7	38.3	25.1	25.3	25.5	25.9	26.1
115°	100.7	67.1	47.7	42.4	37.3	32.0	26.8
117.5°	198.7	190.7	178.0	160.9	143.7	126.5	109.4
120°	242.0	242.8	238.3	228.5	218.7	208.9	199.1
122.5°	256.3	256.8	256.1	254.3	252.4	250.4	248.5
125°	277.4	277.9	278.3	278.5	278.7	278.9	279.1
127.5°	297.2	297.9	298.3	298.4	298.4	298.4	298.5
130°	309.6	310.4	310.8	310.7	310.6	310.6	310.5
132.5°	321.5	322.2	322.6	322.4	322.4	322.3	322.2
135°	338.8	339.5	339.8	339.7	339.5	339.4	339.2
137.5°	354.8	355.5	355.7	355.5	355.3	355.0	354.8
140°	365.1	365.7	365.9	365.5	365.2	364.8	364.4
142.5°	374.6	375.2	375.3	374.9	374.6	374.2	373.8
145°	387.8	388.3	388.4	388.0	387.7	387.3	386.9
147.5°	399.3	399.7	399.7	399.4	399.1	398.8	398.5
150°	406.5	407.0	407.0	406.7	406.3	405.9	405.6
152.5°	413.0	413.4	413.4	412.9	412.5	412.0	411.5
155°	421.8	422.3	422.2	421.6	421.1	420.5	419.9
157.5°	429.4	429.8	429.8	429.2	428.7	428.1	427.6
160°	433.6	434.0	434.0	433.5	433.0	432.5	432.0
162.5°	437.7	438.2	438.2	437.5	436.9	436.3	435.7
165°	442.6	443.1	443.1	442.6	442.1	441.6	441.1
167.5°	446.8	447.3	447.2	446.6	445.9	445.2	444.5
170°	448.9	449.4	449.3	448.7	448.0	447.4	446.7
172.5°	450.4	450.9	450.9	450.2	449.6	448.9	448.3
175°	452.1	452.6	452.5	451.8	451.1	450.3	449.6
177.5°	452.2	452.6	452.5	452.0	451.5	451.0	450.5
180°	451.2	451.2	451.2	451.2	451.2	451.2	451.2

(END OF REPORT)