

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: P331376-840

Luminaire Tested: **SA2XXDIP-C865D330U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331376-840
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-C865D330U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

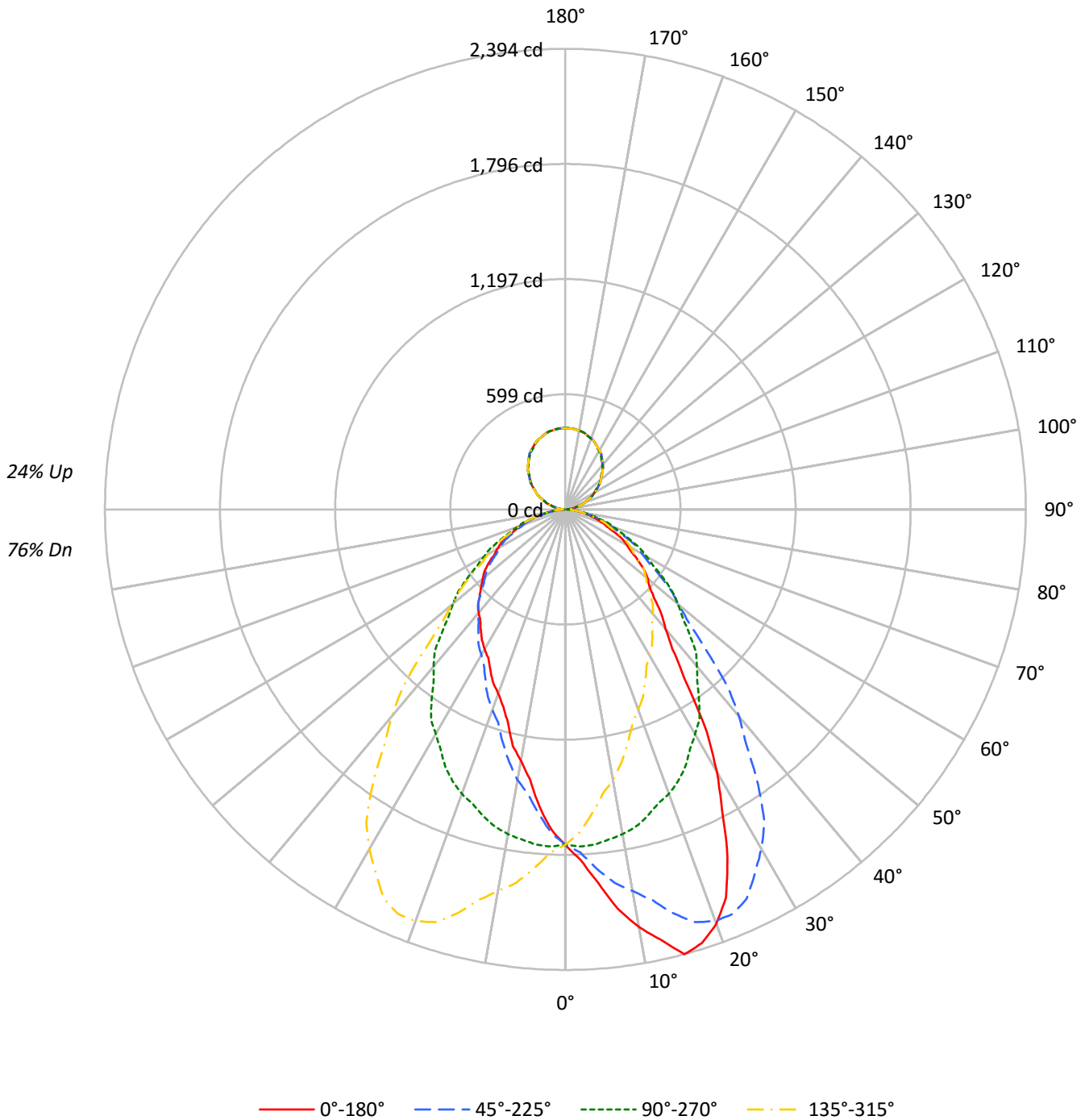
Lumens per Lamp: N/A
Luminaire Lumens: 5030.6 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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	108	108	108	108	98	98	98	89	89	89	80	80	80	76
1	104	100	96	93	99	96	92	89	87	85	82	79	77	76	72	71	69	66
2	96	88	82	77	91	85	79	75	77	73	69	71	67	64	65	62	60	56
3	88	78	71	65	84	75	69	63	69	64	59	63	59	55	58	55	52	49
4	81	70	62	56	77	67	60	55	62	56	51	57	52	48	52	48	45	42
5	75	63	55	49	71	61	53	48	56	50	45	52	46	42	47	43	40	37
6	69	57	49	43	66	55	47	42	51	44	40	47	42	38	43	39	36	33
7	64	52	44	38	61	50	43	37	46	40	35	43	38	34	40	35	32	30
8	60	47	40	34	57	46	39	33	43	36	32	40	34	30	37	32	29	27
9	56	44	36	31	53	42	35	30	39	33	29	37	31	28	34	30	26	24
10	53	40	33	28	50	39	32	28	36	30	26	34	29	25	32	27	24	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	3.3
10°-20°	482.7	9.6
20°-30°	700.6	13.9
30°-40°	739.3	14.7
40°-50°	654.6	13.0
50°-60°	522.4	10.4
60°-70°	355.1	7.1
70°-80°	182.0	3.6
80°-90°	45.6	0.9
90°-100°	26.8	0.5
100°-110°	83.2	1.7
110°-120°	142.2	2.8
120°-130°	187.0	3.7
130°-140°	209.9	4.2
140°-150°	205.8	4.1
150°-160°	172.7	3.4
160°-170°	114.5	2.3
170°-180°	40.0	0.8
0°-30°	1349.4	26.8
0°-40°	2088.7	41.5
0°-60°	3265.7	64.9
0°-90°	3848.4	76.5
90°-120°	252.2	5.0
90°-150°	855.0	17.0
90°-180°	1182.0	23.5
0°-180°	5030.6	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°	12	0	12	0	12	7
95°	22	19	22	19	22	25
105°	79	77	79	77	79	83
115°	143	143	143	143	143	141
125°	208	208	208	208	208	186
135°	272	269	272	269	272	209
145°	330	326	330	326	330	206
155°	376	373	376	373	376	173
165°	406	406	406	406	406	115
175°	421	422	421	422	421	40
180°	423	423	423	423	423	



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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°	16.4	16.4	16.9	16.4	16.3	16.9	16.9	16.4	17.0	17.5	17.7
90°	12.1	12.0	12.0	11.9	11.8	11.8	12.0	12.2	12.3	12.5	10.7
92.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.4	11.4	11.4	11.3	10.9
95°	22.1	22.3	22.4	22.6	22.7	22.8	22.8	22.8	22.8	22.8	22.7
97.5°	38.3	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.1
100°	48.9	49.0	49.1	49.1	49.2	49.3	49.3	49.3	49.3	49.3	49.0
102.5°	60.9	61.0	61.0	61.1	61.2	61.2	61.1	61.1	61.0	60.9	60.6
105°	79.2	79.2	79.2	79.2	79.2	79.2	79.0	78.8	78.7	78.5	78.4
107.5°	96.4	96.8	97.3	97.6	98.0	98.1	98.1	98.0	97.9	97.9	97.9
110°	109.9	110.2	110.4	110.6	110.9	111.0	111.0	111.0	111.0	111.0	111.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	122.7	122.9	123.1	123.3	123.4	123.6	123.8	124.0	124.2	124.4	124.4
115°	142.7	143.0	143.2	143.4	143.7	143.8	143.9	144.0	144.1	144.1	144.3
117.5°	161.8	162.0	162.3	162.5	162.7	162.9	163.1	163.3	163.5	163.7	164.1
120°	175.2	175.4	175.6	175.9	176.1	176.2	176.2	176.2	176.2	176.2	176.9
122.5°	188.3	188.4	188.6	188.8	189.0	189.1	189.3	189.6	189.8	190.0	190.4
125°	208.3	208.4	208.5	208.6	208.6	208.8	209.0	209.3	209.5	209.7	210.1
127.5°	226.6	226.9	227.1	227.4	227.6	227.9	228.2	228.5	228.7	229.0	229.3
130°	239.7	240.0	240.3	240.8	241.1	241.3	241.5	241.6	241.8	241.9	242.1
132.5°	252.4	252.6	252.9	253.1	253.4	253.7	254.0	254.3	254.7	255.0	255.0
135°	271.9	272.2	272.4	272.6	272.9	273.0	273.1	273.2	273.2	273.3	273.2
137.5°	289.5	289.9	290.2	290.5	290.8	291.0	291.0	291.1	291.2	291.2	291.0
140°	301.8	302.2	302.5	302.8	303.1	303.3	303.3	303.3	303.3	303.3	302.9
142.5°	313.0	313.3	313.6	314.0	314.3	314.4	314.3	314.3	314.2	314.1	313.9
145°	329.6	330.0	330.3	330.6	330.9	331.0	330.9	330.9	330.8	330.7	330.2
147.5°	344.6	344.9	345.2	345.5	345.8	345.9	345.7	345.5	345.4	345.2	344.9
150°	354.3	354.6	354.8	355.0	355.3	355.3	355.0	354.8	354.6	354.3	354.0
152.5°	363.5	363.8	364.1	364.4	364.7	364.7	364.4	364.1	363.8	363.5	363.0
155°	375.7	376.0	376.2	376.4	376.7	376.6	376.2	375.8	375.4	375.0	374.8
157.5°	386.3	386.7	387.0	387.4	387.8	387.7	387.2	386.6	386.1	385.6	385.4
160°	392.8	393.1	393.4	393.7	394.0	394.0	393.5	393.0	392.5	392.1	392.0
162.5°	398.5	398.9	399.3	399.7	400.0	400.0	399.4	398.9	398.4	397.8	397.8
165°	406.1	406.4	406.8	407.2	407.6	407.5	407.0	406.4	405.9	405.3	405.3
167.5°	412.1	412.5	412.9	413.4	413.8	413.7	413.1	412.6	412.0	411.5	411.5
170°	415.3	415.8	416.3	416.8	417.2	417.2	416.6	416.1	415.5	415.0	415.1
172.5°	417.9	418.4	418.8	419.3	419.8	419.7	419.2	418.6	418.1	417.5	417.6
175°	420.6	421.1	421.6	422.1	422.5	422.5	421.9	421.4	420.8	420.3	420.4
177.5°	421.9	422.3	422.7	423.0	423.4	423.4	423.0	422.7	422.3	421.9	422.0
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



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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°	17.9	17.6	17.2	18.0	16.2	16.0	13.6	11.8	11.5	11.2	10.3
90°	9.0	7.3	5.6	4.1	3.2	2.2	1.3	0.4	1.3	2.2	3.2
92.5°	10.5	10.1	9.7	9.2	8.5	7.8	7.1	6.4	7.1	7.8	8.5
95°	22.5	22.3	22.2	21.7	20.9	20.1	19.4	18.6	19.4	20.1	20.9
97.5°	37.8	37.5	37.2	36.7	36.0	35.2	34.6	33.9	34.6	35.2	36.0
100°	48.8	48.5	48.3	47.9	47.3	46.6	45.9	45.3	45.9	46.6	47.3
102.5°	60.3	60.0	59.8	59.3	58.8	58.3	57.8	57.3	57.8	58.3	58.8
105°	78.2	78.1	77.9	77.7	77.5	77.2	77.0	76.7	77.0	77.2	77.5
107.5°	97.9	97.9	97.9	97.7	97.4	96.9	96.6	96.2	96.6	96.9	97.4
110°	111.0	111.0	111.0	110.7	110.3	109.8	109.3	108.9	109.3	109.8	110.3



TEST NUMBER: P331376-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	124.5	124.5	124.6	124.4	123.9	123.5	123.0	122.5	123.0	123.5	123.9
115°	144.4	144.6	144.8	144.6	144.1	143.7	143.2	142.7	143.2	143.7	144.1
117.5°	164.6	165.0	165.5	165.4	164.7	164.1	163.5	162.8	163.5	164.1	164.7
120°	177.5	178.1	178.7	178.7	178.1	177.5	176.9	176.2	176.9	177.5	178.1
122.5°	190.9	191.3	191.8	191.6	190.8	190.1	189.2	188.5	189.2	190.1	190.8
125°	210.3	210.5	210.8	210.5	209.7	209.0	208.3	207.6	208.3	209.0	209.7
127.5°	229.6	229.9	230.1	229.8	228.9	228.1	227.2	226.3	227.2	228.1	228.9
130°	242.3	242.4	242.6	242.1	241.1	240.0	239.0	238.0	239.0	240.0	241.1
132.5°	255.0	254.9	254.9	254.5	253.6	252.8	252.0	251.2	252.0	252.8	253.6
135°	273.0	272.9	272.7	272.2	271.2	270.4	269.5	268.6	269.5	270.4	271.2
137.5°	290.8	290.6	290.4	290.0	289.3	288.5	287.8	287.1	287.8	288.5	289.3
140°	302.5	302.1	301.6	301.1	300.4	299.7	299.0	298.3	299.0	299.7	300.4
142.5°	313.6	313.3	313.1	312.6	311.8	311.1	310.4	309.7	310.4	311.1	311.8
145°	329.8	329.3	328.8	328.3	327.8	327.2	326.7	326.1	326.7	327.2	327.8
147.5°	344.6	344.2	343.9	343.4	342.7	342.0	341.4	340.7	341.4	342.0	342.7
150°	353.7	353.4	353.0	352.6	352.1	351.6	351.2	350.7	351.2	351.6	352.1
152.5°	362.6	362.2	361.9	361.4	361.0	360.5	360.0	359.6	360.0	360.5	361.0
155°	374.5	374.3	374.1	373.8	373.5	373.3	373.0	372.8	373.0	373.3	373.5
157.5°	385.3	385.2	385.0	384.9	384.7	384.5	384.4	384.2	384.4	384.5	384.7
160°	391.9	391.8	391.8	391.6	391.5	391.3	391.2	391.0	391.2	391.3	391.5
162.5°	397.7	397.6	397.5	397.5	397.4	397.4	397.4	397.3	397.4	397.4	397.4
165°	405.3	405.3	405.3	405.4	405.5	405.5	405.6	405.7	405.6	405.5	405.5
167.5°	411.5	411.5	411.6	411.7	411.9	412.2	412.4	412.6	412.4	412.2	411.9
170°	415.1	415.2	415.3	415.5	415.7	415.9	416.2	416.4	416.2	415.9	415.7
172.5°	417.7	417.8	417.8	418.0	418.2	418.5	418.7	418.9	418.7	418.5	418.2
175°	420.6	420.8	420.9	421.1	421.3	421.6	421.8	422.1	421.8	421.6	421.3
177.5°	422.2	422.3	422.4	422.6	422.8	422.9	423.1	423.3	423.1	422.9	422.8
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P331376-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-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°	9.9	9.7	9.5	9.8	9.7	9.5	8.9	8.9	8.8	7.8	7.7
90°	4.1	5.6	7.3	9.0	10.7	12.5	12.3	12.2	12.0	11.8	11.8
92.5°	9.2	9.7	10.1	10.5	10.9	11.3	11.4	11.4	11.4	11.5	11.5
95°	21.7	22.2	22.3	22.5	22.7	22.8	22.8	22.8	22.8	22.8	22.7
97.5°	36.7	37.2	37.5	37.8	38.1	38.4	38.4	38.4	38.4	38.4	38.4
100°	47.9	48.3	48.5	48.8	49.0	49.3	49.3	49.3	49.3	49.3	49.2
102.5°	59.3	59.8	60.0	60.3	60.6	60.9	61.0	61.1	61.1	61.2	61.2
105°	77.7	77.9	78.1	78.2	78.4	78.5	78.7	78.8	79.0	79.2	79.2
107.5°	97.7	97.9	97.9	97.9	97.9	97.9	97.9	98.0	98.1	98.1	98.0
110°	110.7	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	110.9



TEST NUMBER: P331376-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.4	124.6	124.5	124.5	124.4	124.4	124.2	124.0	123.8	123.6	123.4
115°	144.6	144.8	144.6	144.4	144.3	144.1	144.1	144.0	143.9	143.8	143.7
117.5°	165.4	165.5	165.0	164.6	164.1	163.7	163.5	163.3	163.1	162.9	162.7
120°	178.7	178.7	178.1	177.5	176.9	176.2	176.2	176.2	176.2	176.2	176.1
122.5°	191.6	191.8	191.3	190.9	190.4	190.0	189.8	189.6	189.3	189.1	189.0
125°	210.5	210.8	210.5	210.3	210.1	209.7	209.5	209.3	209.0	208.8	208.6
127.5°	229.8	230.1	229.9	229.6	229.3	229.0	228.7	228.5	228.2	227.9	227.6
130°	242.1	242.6	242.4	242.3	242.1	241.9	241.8	241.6	241.5	241.3	241.1
132.5°	254.5	254.9	254.9	255.0	255.0	255.0	254.7	254.3	254.0	253.7	253.4
135°	272.2	272.7	272.9	273.0	273.2	273.3	273.2	273.2	273.1	273.0	272.9
137.5°	290.0	290.4	290.6	290.8	291.0	291.2	291.2	291.1	291.0	291.0	290.8
140°	301.1	301.6	302.1	302.5	302.9	303.3	303.3	303.3	303.3	303.3	303.1
142.5°	312.6	313.1	313.3	313.6	313.9	314.1	314.2	314.3	314.3	314.4	314.3
145°	328.3	328.8	329.3	329.8	330.2	330.7	330.8	330.9	330.9	331.0	330.9
147.5°	343.4	343.9	344.2	344.6	344.9	345.2	345.4	345.5	345.7	345.9	345.8
150°	352.6	353.0	353.4	353.7	354.0	354.3	354.6	354.8	355.0	355.3	355.3
152.5°	361.4	361.9	362.2	362.6	363.0	363.5	363.8	364.1	364.4	364.7	364.7
155°	373.8	374.1	374.3	374.5	374.8	375.0	375.4	375.8	376.2	376.6	376.7
157.5°	384.9	385.0	385.2	385.3	385.4	385.6	386.1	386.6	387.2	387.7	387.8
160°	391.6	391.8	391.8	391.9	392.0	392.1	392.5	393.0	393.5	394.0	394.0
162.5°	397.5	397.5	397.6	397.7	397.8	397.8	398.4	398.9	399.4	400.0	400.0
165°	405.4	405.3	405.3	405.3	405.3	405.3	405.9	406.4	407.0	407.5	407.6
167.5°	411.7	411.6	411.5	411.5	411.5	411.5	412.0	412.6	413.1	413.7	413.8
170°	415.5	415.3	415.2	415.1	415.1	415.0	415.5	416.1	416.6	417.2	417.2
172.5°	418.0	417.8	417.8	417.7	417.6	417.5	418.1	418.6	419.2	419.7	419.8
175°	421.1	420.9	420.8	420.6	420.4	420.3	420.8	421.4	421.9	422.5	422.5
177.5°	422.6	422.4	422.3	422.2	422.0	421.9	422.3	422.7	423.0	423.4	423.4
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P331376-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-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°	7.8	7.2	7.3	6.7	7.3	7.2	7.8	7.7	7.8	8.8	8.9
90°	11.9	12.0	12.0	12.1	12.0	12.0	11.9	11.8	11.8	12.0	12.2
92.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.4	11.4
95°	22.6	22.4	22.3	22.1	22.3	22.4	22.6	22.7	22.8	22.8	22.8
97.5°	38.4	38.4	38.4	38.3	38.4	38.4	38.4	38.4	38.4	38.4	38.4
100°	49.1	49.1	49.0	48.9	49.0	49.1	49.1	49.2	49.3	49.3	49.3
102.5°	61.1	61.0	61.0	60.9	61.0	61.0	61.1	61.2	61.2	61.1	61.1
105°	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.0	78.8
107.5°	97.6	97.3	96.8	96.4	96.8	97.3	97.6	98.0	98.1	98.1	98.0
110°	110.6	110.4	110.2	109.9	110.2	110.4	110.6	110.9	111.0	111.0	111.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	123.3	123.1	122.9	122.7	122.9	123.1	123.3	123.4	123.6	123.8	124.0
115°	143.4	143.2	143.0	142.7	143.0	143.2	143.4	143.7	143.8	143.9	144.0
117.5°	162.5	162.3	162.0	161.8	162.0	162.3	162.5	162.7	162.9	163.1	163.3
120°	175.9	175.6	175.4	175.2	175.4	175.6	175.9	176.1	176.2	176.2	176.2
122.5°	188.8	188.6	188.4	188.3	188.4	188.6	188.8	189.0	189.1	189.3	189.6
125°	208.6	208.5	208.4	208.3	208.4	208.5	208.6	208.6	208.8	209.0	209.3
127.5°	227.4	227.1	226.9	226.6	226.9	227.1	227.4	227.6	227.9	228.2	228.5
130°	240.8	240.3	240.0	239.7	240.0	240.3	240.8	241.1	241.3	241.5	241.6
132.5°	253.1	252.9	252.6	252.4	252.6	252.9	253.1	253.4	253.7	254.0	254.3
135°	272.6	272.4	272.2	271.9	272.2	272.4	272.6	272.9	273.0	273.1	273.2
137.5°	290.5	290.2	289.9	289.5	289.9	290.2	290.5	290.8	291.0	291.0	291.1
140°	302.8	302.5	302.2	301.8	302.2	302.5	302.8	303.1	303.3	303.3	303.3
142.5°	314.0	313.6	313.3	313.0	313.3	313.6	314.0	314.3	314.4	314.3	314.3
145°	330.6	330.3	330.0	329.6	330.0	330.3	330.6	330.9	331.0	330.9	330.9
147.5°	345.5	345.2	344.9	344.6	344.9	345.2	345.5	345.8	345.9	345.7	345.5
150°	355.0	354.8	354.6	354.3	354.6	354.8	355.0	355.3	355.3	355.0	354.8
152.5°	364.4	364.1	363.8	363.5	363.8	364.1	364.4	364.7	364.7	364.4	364.1
155°	376.4	376.2	376.0	375.7	376.0	376.2	376.4	376.7	376.6	376.2	375.8
157.5°	387.4	387.0	386.7	386.3	386.7	387.0	387.4	387.8	387.7	387.2	386.6
160°	393.7	393.4	393.1	392.8	393.1	393.4	393.7	394.0	394.0	393.5	393.0
162.5°	399.7	399.3	398.9	398.5	398.9	399.3	399.7	400.0	400.0	399.4	398.9
165°	407.2	406.8	406.4	406.1	406.4	406.8	407.2	407.6	407.5	407.0	406.4
167.5°	413.4	412.9	412.5	412.1	412.5	412.9	413.4	413.8	413.7	413.1	412.6
170°	416.8	416.3	415.8	415.3	415.8	416.3	416.8	417.2	417.2	416.6	416.1
172.5°	419.3	418.8	418.4	417.9	418.4	418.8	419.3	419.8	419.7	419.2	418.6
175°	422.1	421.6	421.1	420.6	421.1	421.6	422.1	422.5	422.5	421.9	421.4
177.5°	423.0	422.7	422.3	421.9	422.3	422.7	423.0	423.4	423.4	423.0	422.7
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P331376-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A1

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°	8.9	9.5	9.7	9.8	9.5	9.7	9.9	10.3	11.2	11.5	11.8
90°	12.3	12.5	10.7	9.0	7.3	5.6	4.1	3.2	2.2	1.3	0.4
92.5°	11.4	11.3	10.9	10.5	10.1	9.7	9.2	8.5	7.8	7.1	6.4
95°	22.8	22.8	22.7	22.5	22.3	22.2	21.7	20.9	20.1	19.4	18.6
97.5°	38.4	38.4	38.1	37.8	37.5	37.2	36.7	36.0	35.2	34.6	33.9
100°	49.3	49.3	49.0	48.8	48.5	48.3	47.9	47.3	46.6	45.9	45.3
102.5°	61.0	60.9	60.6	60.3	60.0	59.8	59.3	58.8	58.3	57.8	57.3
105°	78.7	78.5	78.4	78.2	78.1	77.9	77.7	77.5	77.2	77.0	76.7
107.5°	97.9	97.9	97.9	97.9	97.9	97.9	97.7	97.4	96.9	96.6	96.2
110°	111.0	111.0	111.0	111.0	111.0	111.0	110.7	110.3	109.8	109.3	108.9



TEST NUMBER: P331376-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	124.2	124.4	124.4	124.5	124.5	124.6	124.4	123.9	123.5	123.0	122.5
115°	144.1	144.1	144.3	144.4	144.6	144.8	144.6	144.1	143.7	143.2	142.7
117.5°	163.5	163.7	164.1	164.6	165.0	165.5	165.4	164.7	164.1	163.5	162.8
120°	176.2	176.2	176.9	177.5	178.1	178.7	178.7	178.1	177.5	176.9	176.2
122.5°	189.8	190.0	190.4	190.9	191.3	191.8	191.6	190.8	190.1	189.2	188.5
125°	209.5	209.7	210.1	210.3	210.5	210.8	210.5	209.7	209.0	208.3	207.6
127.5°	228.7	229.0	229.3	229.6	229.9	230.1	229.8	228.9	228.1	227.2	226.3
130°	241.8	241.9	242.1	242.3	242.4	242.6	242.1	241.1	240.0	239.0	238.0
132.5°	254.7	255.0	255.0	255.0	254.9	254.9	254.5	253.6	252.8	252.0	251.2
135°	273.2	273.3	273.2	273.0	272.9	272.7	272.2	271.2	270.4	269.5	268.6
137.5°	291.2	291.2	291.0	290.8	290.6	290.4	290.0	289.3	288.5	287.8	287.1
140°	303.3	303.3	302.9	302.5	302.1	301.6	301.1	300.4	299.7	299.0	298.3
142.5°	314.2	314.1	313.9	313.6	313.3	313.1	312.6	311.8	311.1	310.4	309.7
145°	330.8	330.7	330.2	329.8	329.3	328.8	328.3	327.8	327.2	326.7	326.1
147.5°	345.4	345.2	344.9	344.6	344.2	343.9	343.4	342.7	342.0	341.4	340.7
150°	354.6	354.3	354.0	353.7	353.4	353.0	352.6	352.1	351.6	351.2	350.7
152.5°	363.8	363.5	363.0	362.6	362.2	361.9	361.4	361.0	360.5	360.0	359.6
155°	375.4	375.0	374.8	374.5	374.3	374.1	373.8	373.5	373.3	373.0	372.8
157.5°	386.1	385.6	385.4	385.3	385.2	385.0	384.9	384.7	384.5	384.4	384.2
160°	392.5	392.1	392.0	391.9	391.8	391.8	391.6	391.5	391.3	391.2	391.0
162.5°	398.4	397.8	397.8	397.7	397.6	397.5	397.5	397.4	397.4	397.4	397.3
165°	405.9	405.3	405.3	405.3	405.3	405.3	405.4	405.5	405.5	405.6	405.7
167.5°	412.0	411.5	411.5	411.5	411.5	411.6	411.7	411.9	412.2	412.4	412.6
170°	415.5	415.0	415.1	415.1	415.2	415.3	415.5	415.7	415.9	416.2	416.4
172.5°	418.1	417.5	417.6	417.7	417.8	417.8	418.0	418.2	418.5	418.7	418.9
175°	420.8	420.3	420.4	420.6	420.8	420.9	421.1	421.3	421.6	421.8	422.1
177.5°	422.3	421.9	422.0	422.2	422.3	422.4	422.6	422.8	422.9	423.1	423.3
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P331376-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A1

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	16.2	18.0	17.2	17.6	17.9	17.7	17.5	17.0	16.4
90°	1.3	2.2	3.2	4.1	5.6	7.3	9.0	10.7	12.5	12.3	12.2
92.5°	7.1	7.8	8.5	9.2	9.7	10.1	10.5	10.9	11.3	11.4	11.4
95°	19.4	20.1	20.9	21.7	22.2	22.3	22.5	22.7	22.8	22.8	22.8
97.5°	34.6	35.2	36.0	36.7	37.2	37.5	37.8	38.1	38.4	38.4	38.4
100°	45.9	46.6	47.3	47.9	48.3	48.5	48.8	49.0	49.3	49.3	49.3
102.5°	57.8	58.3	58.8	59.3	59.8	60.0	60.3	60.6	60.9	61.0	61.1
105°	77.0	77.2	77.5	77.7	77.9	78.1	78.2	78.4	78.5	78.7	78.8
107.5°	96.6	96.9	97.4	97.7	97.9	97.9	97.9	97.9	97.9	97.9	98.0
110°	109.3	109.8	110.3	110.7	111.0	111.0	111.0	111.0	111.0	111.0	111.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	123.0	123.5	123.9	124.4	124.6	124.5	124.5	124.4	124.4	124.2	124.0
115°	143.2	143.7	144.1	144.6	144.8	144.6	144.4	144.3	144.1	144.1	144.0
117.5°	163.5	164.1	164.7	165.4	165.5	165.0	164.6	164.1	163.7	163.5	163.3
120°	176.9	177.5	178.1	178.7	178.7	178.1	177.5	176.9	176.2	176.2	176.2
122.5°	189.2	190.1	190.8	191.6	191.8	191.3	190.9	190.4	190.0	189.8	189.6
125°	208.3	209.0	209.7	210.5	210.8	210.5	210.3	210.1	209.7	209.5	209.3
127.5°	227.2	228.1	228.9	229.8	230.1	229.9	229.6	229.3	229.0	228.7	228.5
130°	239.0	240.0	241.1	242.1	242.6	242.4	242.3	242.1	241.9	241.8	241.6
132.5°	252.0	252.8	253.6	254.5	254.9	254.9	255.0	255.0	255.0	254.7	254.3
135°	269.5	270.4	271.2	272.2	272.7	272.9	273.0	273.2	273.3	273.2	273.2
137.5°	287.8	288.5	289.3	290.0	290.4	290.6	290.8	291.0	291.2	291.2	291.1
140°	299.0	299.7	300.4	301.1	301.6	302.1	302.5	302.9	303.3	303.3	303.3
142.5°	310.4	311.1	311.8	312.6	313.1	313.3	313.6	313.9	314.1	314.2	314.3
145°	326.7	327.2	327.8	328.3	328.8	329.3	329.8	330.2	330.7	330.8	330.9
147.5°	341.4	342.0	342.7	343.4	343.9	344.2	344.6	344.9	345.2	345.4	345.5
150°	351.2	351.6	352.1	352.6	353.0	353.4	353.7	354.0	354.3	354.6	354.8
152.5°	360.0	360.5	361.0	361.4	361.9	362.2	362.6	363.0	363.5	363.8	364.1
155°	373.0	373.3	373.5	373.8	374.1	374.3	374.5	374.8	375.0	375.4	375.8
157.5°	384.4	384.5	384.7	384.9	385.0	385.2	385.3	385.4	385.6	386.1	386.6
160°	391.2	391.3	391.5	391.6	391.8	391.8	391.9	392.0	392.1	392.5	393.0
162.5°	397.4	397.4	397.4	397.5	397.5	397.6	397.7	397.8	397.8	398.4	398.9
165°	405.6	405.5	405.5	405.4	405.3	405.3	405.3	405.3	405.3	405.9	406.4
167.5°	412.4	412.2	411.9	411.7	411.6	411.5	411.5	411.5	411.5	412.0	412.6
170°	416.2	415.9	415.7	415.5	415.3	415.2	415.1	415.1	415.0	415.5	416.1
172.5°	418.7	418.5	418.2	418.0	417.8	417.8	417.7	417.6	417.5	418.1	418.6
175°	421.8	421.6	421.3	421.1	420.9	420.8	420.6	420.4	420.3	420.8	421.4
177.5°	423.1	422.9	422.8	422.6	422.4	422.3	422.2	422.0	421.9	422.3	422.7
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



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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°	16.9	16.9	16.3	16.4	16.9	16.4	16.4
90°	12.0	11.8	11.8	11.9	12.0	12.0	12.1
92.5°	11.4	11.5	11.5	11.5	11.5	11.5	11.5
95°	22.8	22.8	22.7	22.6	22.4	22.3	22.1
97.5°	38.4	38.4	38.4	38.4	38.4	38.4	38.3
100°	49.3	49.3	49.2	49.1	49.1	49.0	48.9
102.5°	61.1	61.2	61.2	61.1	61.0	61.0	60.9
105°	79.0	79.2	79.2	79.2	79.2	79.2	79.2
107.5°	98.1	98.1	98.0	97.6	97.3	96.8	96.4
110°	111.0	111.0	110.9	110.6	110.4	110.2	109.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	123.8	123.6	123.4	123.3	123.1	122.9	122.7
115°	143.9	143.8	143.7	143.4	143.2	143.0	142.7
117.5°	163.1	162.9	162.7	162.5	162.3	162.0	161.8
120°	176.2	176.2	176.1	175.9	175.6	175.4	175.2
122.5°	189.3	189.1	189.0	188.8	188.6	188.4	188.3
125°	209.0	208.8	208.6	208.6	208.5	208.4	208.3
127.5°	228.2	227.9	227.6	227.4	227.1	226.9	226.6
130°	241.5	241.3	241.1	240.8	240.3	240.0	239.7
132.5°	254.0	253.7	253.4	253.1	252.9	252.6	252.4
135°	273.1	273.0	272.9	272.6	272.4	272.2	271.9
137.5°	291.0	291.0	290.8	290.5	290.2	289.9	289.5
140°	303.3	303.3	303.1	302.8	302.5	302.2	301.8
142.5°	314.3	314.4	314.3	314.0	313.6	313.3	313.0
145°	330.9	331.0	330.9	330.6	330.3	330.0	329.6
147.5°	345.7	345.9	345.8	345.5	345.2	344.9	344.6
150°	355.0	355.3	355.3	355.0	354.8	354.6	354.3
152.5°	364.4	364.7	364.7	364.4	364.1	363.8	363.5
155°	376.2	376.6	376.7	376.4	376.2	376.0	375.7
157.5°	387.2	387.7	387.8	387.4	387.0	386.7	386.3
160°	393.5	394.0	394.0	393.7	393.4	393.1	392.8
162.5°	399.4	400.0	400.0	399.7	399.3	398.9	398.5
165°	407.0	407.5	407.6	407.2	406.8	406.4	406.1
167.5°	413.1	413.7	413.8	413.4	412.9	412.5	412.1
170°	416.6	417.2	417.2	416.8	416.3	415.8	415.3
172.5°	419.2	419.7	419.8	419.3	418.8	418.4	417.9
175°	421.9	422.5	422.5	422.1	421.6	421.1	420.6
177.5°	423.0	423.4	423.4	423.0	422.7	422.3	421.9
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8

(END OF REPORT)