

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: P331377-840

Luminaire Tested: **SA2XXDIP-C865D330U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331377-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
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-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5139.5 lumens  
Efficiency: N/A  
Efficacy: 118.1 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

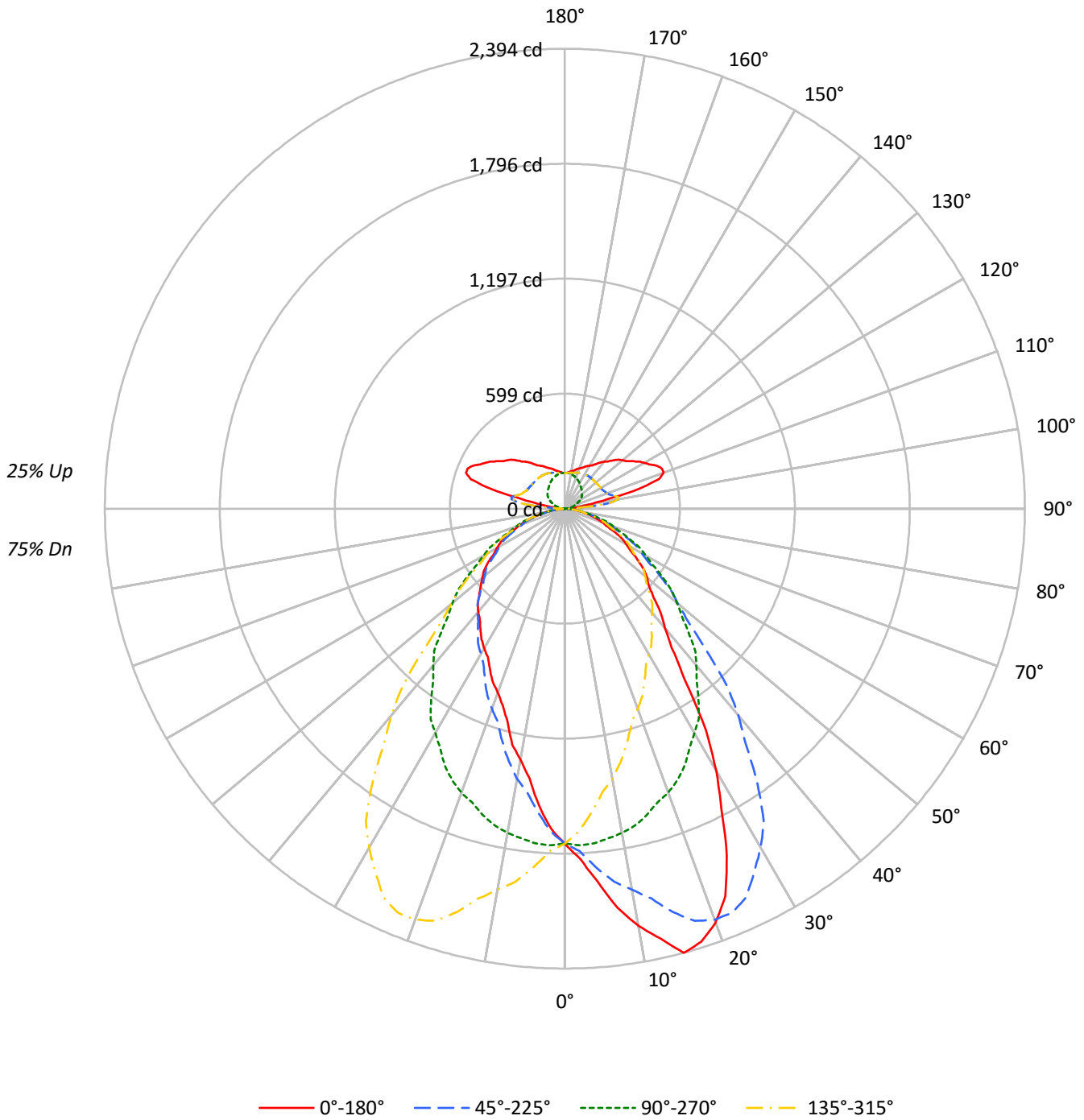
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331377-840

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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	97	97	97	88	88	88	79	79	79	75
1	104	100	96	93	99	95	92	89	86	84	82	78	76	75	71	70	68	65
2	95	88	82	77	91	84	79	74	77	72	69	70	66	63	63	61	59	55
3	88	78	71	65	83	75	68	63	68	63	59	62	58	55	57	53	51	48
4	81	70	62	56	76	67	60	54	61	55	51	56	51	47	51	47	44	41
5	74	63	55	49	71	60	53	47	55	49	44	51	46	42	47	42	39	37
6	69	57	49	43	65	54	47	42	50	44	39	46	41	37	43	38	35	32
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	35	31	29
8	60	47	39	34	57	45	38	33	42	36	32	39	34	30	36	32	28	26
9	56	43	36	31	53	42	35	30	39	33	29	36	31	27	33	29	26	24
10	52	40	33	28	50	39	32	27	36	30	26	34	28	25	31	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



TEST NUMBER: P331377-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.1	3.2
10°-20°	482.7	9.4
20°-30°	700.6	13.6
30°-40°	739.3	14.4
40°-50°	654.6	12.7
50°-60°	522.4	10.2
60°-70°	355.1	6.9
70°-80°	182.0	3.5
80°-90°	45.6	0.9
90°-100°	74.2	1.4
100°-110°	251.8	4.9
110°-120°	267.5	5.2
120°-130°	220.2	4.3
130°-140°	176.8	3.4
140°-150°	133.6	2.6
150°-160°	93.9	1.8
160°-170°	55.3	1.1
170°-180°	18.0	0.4
0°-30°	1349.4	26.3
0°-40°	2088.7	40.6
0°-60°	3265.7	63.5
0°-90°	3848.4	74.9
90°-120°	593.4	11.5
90°-150°	1124.0	21.9
90°-180°	1291.0	25.1
0°-180°	5139.5	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°	12	0	12	0	12	8
95°	41	12	41	12	41	53
105°	402	44	402	44	402	389
115°	529	77	529	77	529	518
125°	429	107	429	107	429	388
135°	356	126	356	126	356	276
145°	284	143	284	143	284	180
155°	239	163	239	163	239	111
165°	209	178	209	178	209	60
175°	189	185	189	185	189	18
180°	186	186	186	186	186	



TEST NUMBER: P331377-840  
 CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**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°	16.3	16.3	16.9	16.3	16.3	16.8	16.7	16.3	16.9	17.5	17.9
90°	11.8	11.8	11.8	11.8	11.8	11.4	10.7	11.4	11.8	12.1	11.8
92.5°	19.8	20.3	20.1	21.2	21.5	23.7	26.7	31.1	39.2	46.4	45.7
95°	40.7	40.3	41.4	44.2	48.9	56.8	71.7	93.5	122.4	139.9	123.8
97.5°	80.1	83.1	88.3	97.0	114.1	139.9	178.4	218.1	250.4	238.7	179.9
100°	127.7	134.2	144.5	159.9	189.5	232.7	281.6	325.8	333.3	281.9	194.1
102.5°	224.8	233.5	246.4	272.6	304.8	350.5	386.3	396.3	364.1	283.3	188.6
105°	402.1	407.1	422.4	444.5	466.8	478.5	473.8	433.5	359.3	264.4	178.0
107.5°	513.7	520.3	523.4	524.6	521.8	504.5	467.5	406.7	328.0	244.1	172.8
110°	547.3	547.8	544.5	537.8	522.4	493.1	447.5	383.5	308.3	234.4	171.7



TEST NUMBER: P331377-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	546.7	544.8	538.8	527.5	506.1	472.5	423.7	362.4	294.6	228.1	171.9
115°	529.2	525.9	516.6	500.3	474.9	438.2	391.4	336.5	277.6	221.3	173.4
117.5°	497.7	494.9	485.2	467.9	442.0	407.6	365.2	316.9	266.9	217.8	176.0
120°	477.5	473.8	463.5	446.8	421.7	389.3	351.4	307.2	261.2	215.9	177.7
122.5°	456.3	453.3	444.1	427.6	405.2	375.9	340.0	299.5	256.3	214.7	179.7
125°	429.3	426.4	417.5	403.9	383.2	356.5	325.1	288.3	249.4	212.7	182.7
127.5°	405.6	403.2	395.6	382.8	364.8	340.1	310.5	277.2	243.0	211.5	185.7
130°	392.1	389.3	382.1	370.0	352.5	329.0	300.8	270.1	238.7	210.9	188.0
132.5°	378.2	375.6	369.0	356.9	339.7	317.6	291.6	263.3	235.3	210.6	190.4
135°	355.8	354.4	347.9	336.1	320.7	300.8	277.2	253.7	230.5	210.2	193.1
137.5°	333.8	331.6	326.0	315.9	301.8	284.5	265.8	246.1	227.1	210.1	195.5
140°	318.6	316.5	311.1	301.8	290.4	274.8	258.3	241.2	225.1	209.8	196.6
142.5°	303.5	303.1	298.3	289.8	279.0	265.9	251.8	237.2	223.2	209.8	197.4
145°	284.0	283.0	279.4	273.3	264.8	254.4	243.4	231.6	220.6	209.0	198.3
147.5°	267.7	267.0	264.6	259.7	252.7	245.1	236.5	227.2	217.8	207.8	198.6
150°	258.0	257.6	255.5	251.2	245.8	239.4	232.0	224.1	215.5	206.9	198.3
152.5°	249.7	249.6	248.0	244.4	240.1	234.6	228.2	221.0	213.5	205.5	197.8
155°	238.7	239.4	238.0	235.5	231.6	227.6	222.3	216.6	209.8	203.0	196.9
157.5°	229.3	229.3	228.7	226.6	223.9	220.8	216.3	211.6	206.3	200.5	195.3
160°	223.4	223.4	223.0	221.3	218.7	216.2	212.3	208.3	203.7	198.7	194.5
162.5°	217.6	217.9	217.6	216.4	213.9	212.0	208.6	205.2	201.5	197.3	193.6
165°	209.4	209.8	209.8	208.3	206.9	205.5	203.0	200.6	197.6	194.5	192.0
167.5°	201.9	202.3	202.4	201.6	201.0	199.7	197.9	196.0	194.0	192.0	190.4
170°	197.3	198.0	198.3	197.3	196.9	196.2	194.8	193.8	192.0	190.6	189.5
172.5°	193.6	194.0	194.4	193.9	193.5	193.1	192.0	191.2	190.0	188.8	188.3
175°	188.7	189.5	189.9	189.5	189.5	189.1	188.7	188.4	187.3	186.9	186.6
177.5°	185.8	186.4	186.7	186.7	186.7	186.7	186.4	186.4	185.8	185.5	185.8
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331377-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**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°	18.0	17.5	17.2	18.0	16.3	16.2	13.7	11.8	11.5	11.3	10.4
90°	9.6	7.2	5.4	4.2	3.5	2.8	1.4	0.4	1.4	2.8	3.5
92.5°	35.6	24.2	16.2	12.8	10.4	8.9	6.3	4.3	6.3	8.9	10.4
95°	82.4	51.4	34.9	26.4	20.7	17.5	13.9	12.5	13.9	17.5	20.7
97.5°	111.1	67.8	47.2	37.5	30.9	26.1	22.2	20.3	22.2	26.1	30.9
100°	117.0	73.5	54.6	44.6	37.5	31.7	28.6	27.5	28.6	31.7	37.5
102.5°	117.3	78.7	61.2	51.2	43.7	38.1	34.8	34.0	34.8	38.1	43.7
105°	119.2	87.5	70.7	60.7	52.8	47.5	44.9	43.5	44.9	47.5	52.8
107.5°	124.1	96.4	80.2	70.1	62.3	57.4	54.9	53.8	54.9	57.4	62.3
110°	128.1	102.4	86.7	76.3	68.9	64.2	62.1	60.7	62.1	64.2	68.9





TEST NUMBER: P331377-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	132.4	108.2	93.0	82.3	75.1	70.8	68.4	67.0	68.4	70.8	75.1
115°	138.8	117.0	101.7	92.1	84.9	80.7	78.5	76.7	78.5	80.7	84.9
117.5°	145.6	125.2	111.1	101.1	94.2	90.4	88.3	86.8	88.3	90.4	94.2
120°	150.3	131.0	117.0	107.0	99.9	96.7	94.5	93.1	94.5	96.7	99.9
122.5°	154.2	136.3	123.3	113.0	105.9	102.4	100.3	99.2	100.3	102.4	105.9
125°	160.6	144.5	131.7	121.7	114.5	110.3	108.2	107.0	108.2	110.3	114.5
127.5°	166.5	152.1	139.6	129.3	122.5	117.8	114.7	113.3	114.7	117.8	122.5
130°	170.2	156.6	144.1	134.2	127.0	122.0	118.5	117.0	118.5	122.0	127.0
132.5°	173.9	160.7	148.8	138.8	131.3	126.0	122.2	120.5	122.2	126.0	131.3
135°	178.7	166.3	154.8	144.9	136.6	131.3	127.0	125.6	127.0	131.3	136.6
137.5°	182.5	170.9	159.6	150.3	142.2	136.4	132.2	130.5	132.2	136.4	142.2
140°	184.5	173.4	162.7	153.4	145.6	139.9	135.6	134.2	135.6	139.9	145.6
142.5°	186.2	175.4	165.0	156.3	148.8	143.0	139.1	137.8	139.1	143.0	148.8
145°	188.4	178.4	168.7	161.0	153.8	148.5	144.9	143.4	144.9	148.5	153.8
147.5°	189.7	180.9	171.8	164.8	158.9	153.9	150.5	149.5	150.5	153.9	158.9
150°	190.2	182.0	173.8	167.3	162.0	157.3	154.5	153.4	154.5	157.3	162.0
152.5°	190.5	183.1	175.7	170.0	164.8	160.8	157.9	157.4	157.9	160.8	164.8
155°	190.9	184.8	178.7	173.4	169.5	165.5	163.4	163.1	163.4	165.5	169.5
157.5°	190.9	186.0	180.9	176.4	173.3	169.9	168.1	167.7	168.1	169.9	173.3
160°	190.9	186.6	182.4	178.4	175.5	172.7	171.3	170.9	171.3	172.7	175.5
162.5°	190.6	186.9	183.2	180.2	177.5	175.3	173.8	174.1	173.8	175.3	177.5
165°	189.9	187.3	184.1	182.0	180.2	178.0	177.3	177.7	177.3	178.0	180.2
167.5°	189.3	187.2	184.9	183.6	182.3	180.9	180.3	180.7	180.3	180.9	182.3
170°	188.7	186.9	185.2	184.1	183.4	182.4	182.0	182.7	182.0	182.4	183.4
172.5°	187.9	186.7	185.5	184.7	184.3	183.2	183.4	183.8	183.4	183.2	184.3
175°	186.9	186.2	185.5	185.2	185.2	184.5	184.8	185.2	184.8	184.5	185.2
177.5°	186.4	185.8	185.5	185.5	185.5	185.0	185.2	185.8	185.2	185.0	185.5
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331377-840  
 CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**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°	10.0	9.7	9.5	10.0	9.9	9.4	8.8	8.7	8.6	7.7	7.7
90°	4.2	5.4	7.2	9.6	11.8	12.1	11.8	11.4	10.7	11.4	11.8
92.5°	12.8	16.2	24.2	35.6	45.7	46.4	39.2	31.1	26.7	23.7	21.5
95°	26.4	34.9	51.4	82.4	123.8	139.9	122.4	93.5	71.7	56.8	48.9
97.5°	37.5	47.2	67.8	111.1	179.9	238.7	250.4	218.1	178.4	139.9	114.1
100°	44.6	54.6	73.5	117.0	194.1	281.9	333.3	325.8	281.6	232.7	189.5
102.5°	51.2	61.2	78.7	117.3	188.6	283.3	364.1	396.3	386.3	350.5	304.8
105°	60.7	70.7	87.5	119.2	178.0	264.4	359.3	433.5	473.8	478.5	466.8
107.5°	70.1	80.2	96.4	124.1	172.8	244.1	328.0	406.7	467.5	504.5	521.8
110°	76.3	86.7	102.4	128.1	171.7	234.4	308.3	383.5	447.5	493.1	522.4



TEST NUMBER: P331377-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	82.3	93.0	108.2	132.4	171.9	228.1	294.6	362.4	423.7	472.5	506.1
115°	92.1	101.7	117.0	138.8	173.4	221.3	277.6	336.5	391.4	438.2	474.9
117.5°	101.1	111.1	125.2	145.6	176.0	217.8	266.9	316.9	365.2	407.6	442.0
120°	107.0	117.0	131.0	150.3	177.7	215.9	261.2	307.2	351.4	389.3	421.7
122.5°	113.0	123.3	136.3	154.2	179.7	214.7	256.3	299.5	340.0	375.9	405.2
125°	121.7	131.7	144.5	160.6	182.7	212.7	249.4	288.3	325.1	356.5	383.2
127.5°	129.3	139.6	152.1	166.5	185.7	211.5	243.0	277.2	310.5	340.1	364.8
130°	134.2	144.1	156.6	170.2	188.0	210.9	238.7	270.1	300.8	329.0	352.5
132.5°	138.8	148.8	160.7	173.9	190.4	210.6	235.3	263.3	291.6	317.6	339.7
135°	144.9	154.8	166.3	178.7	193.1	210.2	230.5	253.7	277.2	300.8	320.7
137.5°	150.3	159.6	170.9	182.5	195.5	210.1	227.1	246.1	265.8	284.5	301.8
140°	153.4	162.7	173.4	184.5	196.6	209.8	225.1	241.2	258.3	274.8	290.4
142.5°	156.3	165.0	175.4	186.2	197.4	209.8	223.2	237.2	251.8	265.9	279.0
145°	161.0	168.7	178.4	188.4	198.3	209.0	220.6	231.6	243.4	254.4	264.8
147.5°	164.8	171.8	180.9	189.7	198.6	207.8	217.8	227.2	236.5	245.1	252.7
150°	167.3	173.8	182.0	190.2	198.3	206.9	215.5	224.1	232.0	239.4	245.8
152.5°	170.0	175.7	183.1	190.5	197.8	205.5	213.5	221.0	228.2	234.6	240.1
155°	173.4	178.7	184.8	190.9	196.9	203.0	209.8	216.6	222.3	227.6	231.6
157.5°	176.4	180.9	186.0	190.9	195.3	200.5	206.3	211.6	216.3	220.8	223.9
160°	178.4	182.4	186.6	190.9	194.5	198.7	203.7	208.3	212.3	216.2	218.7
162.5°	180.2	183.2	186.9	190.6	193.6	197.3	201.5	205.2	208.6	212.0	213.9
165°	182.0	184.1	187.3	189.9	192.0	194.5	197.6	200.6	203.0	205.5	206.9
167.5°	183.6	184.9	187.2	189.3	190.4	192.0	194.0	196.0	197.9	199.7	201.0
170°	184.1	185.2	186.9	188.7	189.5	190.6	192.0	193.8	194.8	196.2	196.9
172.5°	184.7	185.5	186.7	187.9	188.3	188.8	190.0	191.2	192.0	193.1	193.5
175°	185.2	185.5	186.2	186.9	186.6	186.9	187.3	188.4	188.7	189.1	189.5
177.5°	185.5	185.5	185.8	186.4	185.8	185.5	185.8	186.4	186.4	186.7	186.7
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331377-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**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°	7.7	7.2	7.2	6.7	7.2	7.2	7.7	7.7	7.7	8.6	8.7
90°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.4	10.7	11.4
92.5°	21.2	20.1	20.3	19.8	20.3	20.1	21.2	21.5	23.7	26.7	31.1
95°	44.2	41.4	40.3	40.7	40.3	41.4	44.2	48.9	56.8	71.7	93.5
97.5°	97.0	88.3	83.1	80.1	83.1	88.3	97.0	114.1	139.9	178.4	218.1
100°	159.9	144.5	134.2	127.7	134.2	144.5	159.9	189.5	232.7	281.6	325.8
102.5°	272.6	246.4	233.5	224.8	233.5	246.4	272.6	304.8	350.5	386.3	396.3
105°	444.5	422.4	407.1	402.1	407.1	422.4	444.5	466.8	478.5	473.8	433.5
107.5°	524.6	523.4	520.3	513.7	520.3	523.4	524.6	521.8	504.5	467.5	406.7
110°	537.8	544.5	547.8	547.3	547.8	544.5	537.8	522.4	493.1	447.5	383.5



TEST NUMBER: P331377-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	527.5	538.8	544.8	546.7	544.8	538.8	527.5	506.1	472.5	423.7	362.4
115°	500.3	516.6	525.9	529.2	525.9	516.6	500.3	474.9	438.2	391.4	336.5
117.5°	467.9	485.2	494.9	497.7	494.9	485.2	467.9	442.0	407.6	365.2	316.9
120°	446.8	463.5	473.8	477.5	473.8	463.5	446.8	421.7	389.3	351.4	307.2
122.5°	427.6	444.1	453.3	456.3	453.3	444.1	427.6	405.2	375.9	340.0	299.5
125°	403.9	417.5	426.4	429.3	426.4	417.5	403.9	383.2	356.5	325.1	288.3
127.5°	382.8	395.6	403.2	405.6	403.2	395.6	382.8	364.8	340.1	310.5	277.2
130°	370.0	382.1	389.3	392.1	389.3	382.1	370.0	352.5	329.0	300.8	270.1
132.5°	356.9	369.0	375.6	378.2	375.6	369.0	356.9	339.7	317.6	291.6	263.3
135°	336.1	347.9	354.4	355.8	354.4	347.9	336.1	320.7	300.8	277.2	253.7
137.5°	315.9	326.0	331.6	333.8	331.6	326.0	315.9	301.8	284.5	265.8	246.1
140°	301.8	311.1	316.5	318.6	316.5	311.1	301.8	290.4	274.8	258.3	241.2
142.5°	289.8	298.3	303.1	303.5	303.1	298.3	289.8	279.0	265.9	251.8	237.2
145°	273.3	279.4	283.0	284.0	283.0	279.4	273.3	264.8	254.4	243.4	231.6
147.5°	259.7	264.6	267.0	267.7	267.0	264.6	259.7	252.7	245.1	236.5	227.2
150°	251.2	255.5	257.6	258.0	257.6	255.5	251.2	245.8	239.4	232.0	224.1
152.5°	244.4	248.0	249.6	249.7	249.6	248.0	244.4	240.1	234.6	228.2	221.0
155°	235.5	238.0	239.4	238.7	239.4	238.0	235.5	231.6	227.6	222.3	216.6
157.5°	226.6	228.7	229.3	229.3	229.3	228.7	226.6	223.9	220.8	216.3	211.6
160°	221.3	223.0	223.4	223.4	223.4	223.0	221.3	218.7	216.2	212.3	208.3
162.5°	216.4	217.6	217.9	217.6	217.9	217.6	216.4	213.9	212.0	208.6	205.2
165°	208.3	209.8	209.8	209.4	209.8	209.8	208.3	206.9	205.5	203.0	200.6
167.5°	201.6	202.4	202.3	201.9	202.3	202.4	201.6	201.0	199.7	197.9	196.0
170°	197.3	198.3	198.0	197.3	198.0	198.3	197.3	196.9	196.2	194.8	193.8
172.5°	193.9	194.4	194.0	193.6	194.0	194.4	193.9	193.5	193.1	192.0	191.2
175°	189.5	189.9	189.5	188.7	189.5	189.9	189.5	189.5	189.1	188.7	188.4
177.5°	186.7	186.7	186.4	185.8	186.4	186.7	186.7	186.7	186.7	186.4	186.4
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331377-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**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°	8.8	9.4	9.9	10.0	9.5	9.7	10.0	10.4	11.3	11.5	11.8
90°	11.8	12.1	11.8	9.6	7.2	5.4	4.2	3.5	2.8	1.4	0.4
92.5°	39.2	46.4	45.7	35.6	24.2	16.2	12.8	10.4	8.9	6.3	4.3
95°	122.4	139.9	123.8	82.4	51.4	34.9	26.4	20.7	17.5	13.9	12.5
97.5°	250.4	238.7	179.9	111.1	67.8	47.2	37.5	30.9	26.1	22.2	20.3
100°	333.3	281.9	194.1	117.0	73.5	54.6	44.6	37.5	31.7	28.6	27.5
102.5°	364.1	283.3	188.6	117.3	78.7	61.2	51.2	43.7	38.1	34.8	34.0
105°	359.3	264.4	178.0	119.2	87.5	70.7	60.7	52.8	47.5	44.9	43.5
107.5°	328.0	244.1	172.8	124.1	96.4	80.2	70.1	62.3	57.4	54.9	53.8
110°	308.3	234.4	171.7	128.1	102.4	86.7	76.3	68.9	64.2	62.1	60.7



TEST NUMBER: P331377-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	294.6	228.1	171.9	132.4	108.2	93.0	82.3	75.1	70.8	68.4	67.0
115°	277.6	221.3	173.4	138.8	117.0	101.7	92.1	84.9	80.7	78.5	76.7
117.5°	266.9	217.8	176.0	145.6	125.2	111.1	101.1	94.2	90.4	88.3	86.8
120°	261.2	215.9	177.7	150.3	131.0	117.0	107.0	99.9	96.7	94.5	93.1
122.5°	256.3	214.7	179.7	154.2	136.3	123.3	113.0	105.9	102.4	100.3	99.2
125°	249.4	212.7	182.7	160.6	144.5	131.7	121.7	114.5	110.3	108.2	107.0
127.5°	243.0	211.5	185.7	166.5	152.1	139.6	129.3	122.5	117.8	114.7	113.3
130°	238.7	210.9	188.0	170.2	156.6	144.1	134.2	127.0	122.0	118.5	117.0
132.5°	235.3	210.6	190.4	173.9	160.7	148.8	138.8	131.3	126.0	122.2	120.5
135°	230.5	210.2	193.1	178.7	166.3	154.8	144.9	136.6	131.3	127.0	125.6
137.5°	227.1	210.1	195.5	182.5	170.9	159.6	150.3	142.2	136.4	132.2	130.5
140°	225.1	209.8	196.6	184.5	173.4	162.7	153.4	145.6	139.9	135.6	134.2
142.5°	223.2	209.8	197.4	186.2	175.4	165.0	156.3	148.8	143.0	139.1	137.8
145°	220.6	209.0	198.3	188.4	178.4	168.7	161.0	153.8	148.5	144.9	143.4
147.5°	217.8	207.8	198.6	189.7	180.9	171.8	164.8	158.9	153.9	150.5	149.5
150°	215.5	206.9	198.3	190.2	182.0	173.8	167.3	162.0	157.3	154.5	153.4
152.5°	213.5	205.5	197.8	190.5	183.1	175.7	170.0	164.8	160.8	157.9	157.4
155°	209.8	203.0	196.9	190.9	184.8	178.7	173.4	169.5	165.5	163.4	163.1
157.5°	206.3	200.5	195.3	190.9	186.0	180.9	176.4	173.3	169.9	168.1	167.7
160°	203.7	198.7	194.5	190.9	186.6	182.4	178.4	175.5	172.7	171.3	170.9
162.5°	201.5	197.3	193.6	190.6	186.9	183.2	180.2	177.5	175.3	173.8	174.1
165°	197.6	194.5	192.0	189.9	187.3	184.1	182.0	180.2	178.0	177.3	177.7
167.5°	194.0	192.0	190.4	189.3	187.2	184.9	183.6	182.3	180.9	180.3	180.7
170°	192.0	190.6	189.5	188.7	186.9	185.2	184.1	183.4	182.4	182.0	182.7
172.5°	190.0	188.8	188.3	187.9	186.7	185.5	184.7	184.3	183.2	183.4	183.8
175°	187.3	186.9	186.6	186.9	186.2	185.5	185.2	185.2	184.5	184.8	185.2
177.5°	185.8	185.5	185.8	186.4	185.8	185.5	185.5	185.5	185.0	185.2	185.8
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5





TEST NUMBER: P331377-840  
 CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**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°	13.7	16.2	16.3	18.0	17.2	17.5	18.0	17.9	17.5	16.9	16.3
90°	1.4	2.8	3.5	4.2	5.4	7.2	9.6	11.8	12.1	11.8	11.4
92.5°	6.3	8.9	10.4	12.8	16.2	24.2	35.6	45.7	46.4	39.2	31.1
95°	13.9	17.5	20.7	26.4	34.9	51.4	82.4	123.8	139.9	122.4	93.5
97.5°	22.2	26.1	30.9	37.5	47.2	67.8	111.1	179.9	238.7	250.4	218.1
100°	28.6	31.7	37.5	44.6	54.6	73.5	117.0	194.1	281.9	333.3	325.8
102.5°	34.8	38.1	43.7	51.2	61.2	78.7	117.3	188.6	283.3	364.1	396.3
105°	44.9	47.5	52.8	60.7	70.7	87.5	119.2	178.0	264.4	359.3	433.5
107.5°	54.9	57.4	62.3	70.1	80.2	96.4	124.1	172.8	244.1	328.0	406.7
110°	62.1	64.2	68.9	76.3	86.7	102.4	128.1	171.7	234.4	308.3	383.5





TEST NUMBER: P331377-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	68.4	70.8	75.1	82.3	93.0	108.2	132.4	171.9	228.1	294.6	362.4
115°	78.5	80.7	84.9	92.1	101.7	117.0	138.8	173.4	221.3	277.6	336.5
117.5°	88.3	90.4	94.2	101.1	111.1	125.2	145.6	176.0	217.8	266.9	316.9
120°	94.5	96.7	99.9	107.0	117.0	131.0	150.3	177.7	215.9	261.2	307.2
122.5°	100.3	102.4	105.9	113.0	123.3	136.3	154.2	179.7	214.7	256.3	299.5
125°	108.2	110.3	114.5	121.7	131.7	144.5	160.6	182.7	212.7	249.4	288.3
127.5°	114.7	117.8	122.5	129.3	139.6	152.1	166.5	185.7	211.5	243.0	277.2
130°	118.5	122.0	127.0	134.2	144.1	156.6	170.2	188.0	210.9	238.7	270.1
132.5°	122.2	126.0	131.3	138.8	148.8	160.7	173.9	190.4	210.6	235.3	263.3
135°	127.0	131.3	136.6	144.9	154.8	166.3	178.7	193.1	210.2	230.5	253.7
137.5°	132.2	136.4	142.2	150.3	159.6	170.9	182.5	195.5	210.1	227.1	246.1
140°	135.6	139.9	145.6	153.4	162.7	173.4	184.5	196.6	209.8	225.1	241.2
142.5°	139.1	143.0	148.8	156.3	165.0	175.4	186.2	197.4	209.8	223.2	237.2
145°	144.9	148.5	153.8	161.0	168.7	178.4	188.4	198.3	209.0	220.6	231.6
147.5°	150.5	153.9	158.9	164.8	171.8	180.9	189.7	198.6	207.8	217.8	227.2
150°	154.5	157.3	162.0	167.3	173.8	182.0	190.2	198.3	206.9	215.5	224.1
152.5°	157.9	160.8	164.8	170.0	175.7	183.1	190.5	197.8	205.5	213.5	221.0
155°	163.4	165.5	169.5	173.4	178.7	184.8	190.9	196.9	203.0	209.8	216.6
157.5°	168.1	169.9	173.3	176.4	180.9	186.0	190.9	195.3	200.5	206.3	211.6
160°	171.3	172.7	175.5	178.4	182.4	186.6	190.9	194.5	198.7	203.7	208.3
162.5°	173.8	175.3	177.5	180.2	183.2	186.9	190.6	193.6	197.3	201.5	205.2
165°	177.3	178.0	180.2	182.0	184.1	187.3	189.9	192.0	194.5	197.6	200.6
167.5°	180.3	180.9	182.3	183.6	184.9	187.2	189.3	190.4	192.0	194.0	196.0
170°	182.0	182.4	183.4	184.1	185.2	186.9	188.7	189.5	190.6	192.0	193.8
172.5°	183.4	183.2	184.3	184.7	185.5	186.7	187.9	188.3	188.8	190.0	191.2
175°	184.8	184.5	185.2	185.2	185.5	186.2	186.9	186.6	186.9	187.3	188.4
177.5°	185.2	185.0	185.5	185.5	185.5	185.8	186.4	185.8	185.5	185.8	186.4
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331377-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**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°	16.7	16.8	16.3	16.3	16.9	16.3	16.3
90°	10.7	11.4	11.8	11.8	11.8	11.8	11.8
92.5°	26.7	23.7	21.5	21.2	20.1	20.3	19.8
95°	71.7	56.8	48.9	44.2	41.4	40.3	40.7
97.5°	178.4	139.9	114.1	97.0	88.3	83.1	80.1
100°	281.6	232.7	189.5	159.9	144.5	134.2	127.7
102.5°	386.3	350.5	304.8	272.6	246.4	233.5	224.8
105°	473.8	478.5	466.8	444.5	422.4	407.1	402.1
107.5°	467.5	504.5	521.8	524.6	523.4	520.3	513.7
110°	447.5	493.1	522.4	537.8	544.5	547.8	547.3



TEST NUMBER: P331377-840

CATALOG NUMBER: SA2XXDIP-C865D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	423.7	472.5	506.1	527.5	538.8	544.8	546.7
115°	391.4	438.2	474.9	500.3	516.6	525.9	529.2
117.5°	365.2	407.6	442.0	467.9	485.2	494.9	497.7
120°	351.4	389.3	421.7	446.8	463.5	473.8	477.5
122.5°	340.0	375.9	405.2	427.6	444.1	453.3	456.3
125°	325.1	356.5	383.2	403.9	417.5	426.4	429.3
127.5°	310.5	340.1	364.8	382.8	395.6	403.2	405.6
130°	300.8	329.0	352.5	370.0	382.1	389.3	392.1
132.5°	291.6	317.6	339.7	356.9	369.0	375.6	378.2
135°	277.2	300.8	320.7	336.1	347.9	354.4	355.8
137.5°	265.8	284.5	301.8	315.9	326.0	331.6	333.8
140°	258.3	274.8	290.4	301.8	311.1	316.5	318.6
142.5°	251.8	265.9	279.0	289.8	298.3	303.1	303.5
145°	243.4	254.4	264.8	273.3	279.4	283.0	284.0
147.5°	236.5	245.1	252.7	259.7	264.6	267.0	267.7
150°	232.0	239.4	245.8	251.2	255.5	257.6	258.0
152.5°	228.2	234.6	240.1	244.4	248.0	249.6	249.7
155°	222.3	227.6	231.6	235.5	238.0	239.4	238.7
157.5°	216.3	220.8	223.9	226.6	228.7	229.3	229.3
160°	212.3	216.2	218.7	221.3	223.0	223.4	223.4
162.5°	208.6	212.0	213.9	216.4	217.6	217.9	217.6
165°	203.0	205.5	206.9	208.3	209.8	209.8	209.4
167.5°	197.9	199.7	201.0	201.6	202.4	202.3	201.9
170°	194.8	196.2	196.9	197.3	198.3	198.0	197.3
172.5°	192.0	193.1	193.5	193.9	194.4	194.0	193.6
175°	188.7	189.1	189.5	189.5	189.9	189.5	188.7
177.5°	186.4	186.7	186.7	186.7	186.7	186.4	185.8
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5

(END OF REPORT)