

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: P331375-940

Luminaire Tested: **SA2XXDIP-C865D330U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331375-940
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-C865D330U940-4F0-1E-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

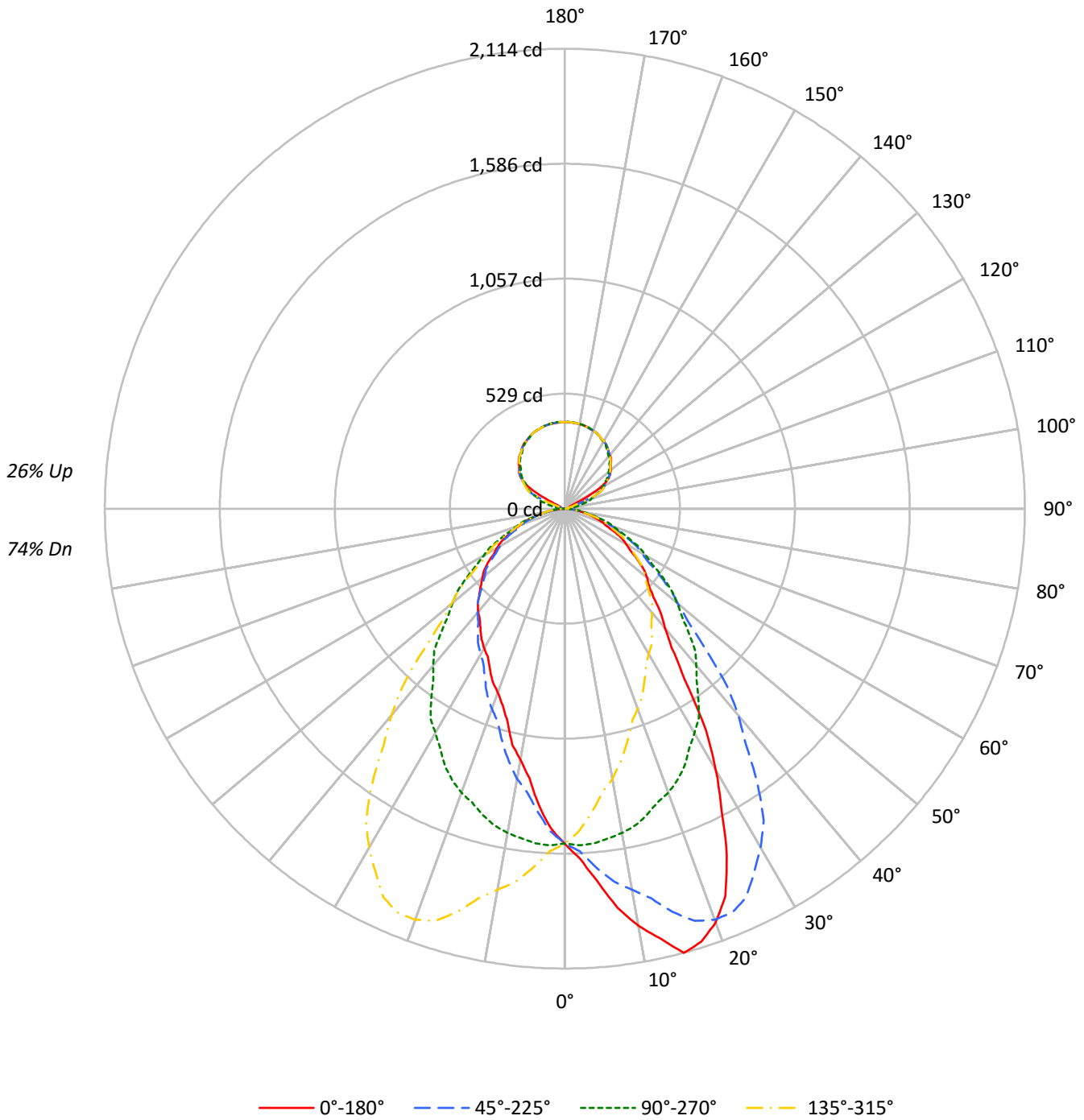
Lumens per Lamp: N/A
Luminaire Lumens: 4565.3 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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	69	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°	24857	24857	24857	24857
5°	27869	25020	22172	25020
10°	31936	24815	19189	24815
15°	35328	24359	16951	24359
20°	34790	23871	15454	23871
25°	31370	23222	14503	23222
30°	25922	22184	13811	22184
35°	18892	21098	13318	21098
40°	15091	19816	13044	19816
45°	13186	18333	12673	18333
50°	12396	16900	12424	16900
55°	11426	15440	12090	15440
60°	10469	13892	11580	13892
65°	9540	12500	11075	12500
70°	8658	11146	10334	11146
75°	7679	9632	9158	9632
80°	6602	7978	7373	7978
85°	5910	5910	4372	5910



TEST NUMBER: P331375-940

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	3.2
10°-20°	426.3	9.3
20°-30°	618.6	13.6
30°-40°	652.8	14.3
40°-50°	578.0	12.7
50°-60°	461.3	10.1
60°-70°	313.5	6.9
70°-80°	160.7	3.5
80°-90°	39.7	0.9
90°-100°	13.3	0.3
100°-110°	48.7	1.1
110°-120°	130.3	2.9
120°-130°	215.1	4.7
130°-140°	228.7	5.0
140°-150°	212.6	4.7
150°-160°	170.9	3.7
160°-170°	110.1	2.4
170°-180°	37.9	0.8
0°-30°	1191.5	26.1
0°-40°	1844.3	40.4
0°-60°	2883.6	63.2
0°-90°	3397.6	74.4
90°-120°	192.3	4.2
90°-150°	848.7	18.6
90°-180°	1168.0	25.6
0°-180°	4565.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1540	1540	1540	1540	1540	
5°	1720	1544	1368	1544	1720	172
15°	2114	1457	1014	1457	2114	583
25°	1761	1304	814	1304	1761	796
35°	958	1070	676	1070	958	623
45°	578	803	555	803	578	454
55°	406	548	430	548	406	364
65°	250	327	290	327	250	248
75°	123	154	147	154	123	132
85°	32	32	24	32	32	35
90°	8	0	8	0	8	5
95°	12	19	12	19	12	12
105°	22	88	22	88	22	23
115°	24	166	24	166	24	59
125°	246	234	246	234	246	213
135°	300	290	300	290	300	231
145°	342	336	342	336	342	214
155°	371	370	371	370	371	171
165°	390	390	390	390	390	110
175°	397	399	397	399	397	38
180°	398	398	398	398	398	



TEST NUMBER: P331375-940

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1610.6	1611.1	1612.0	1604.5	1603.5	1603.5	1596.9	1591.2	1584.6	1575.6	1576.5
5°	1719.5	1726.0	1728.3	1721.3	1710.6	1709.4	1699.3	1682.7	1667.4	1654.9	1646.1
7.5°	1849.4	1852.0	1846.2	1836.8	1828.9	1814.7	1796.0	1777.7	1752.0	1728.5	1710.9
10°	1947.9	1951.4	1941.3	1927.7	1916.5	1899.9	1872.7	1844.9	1811.2	1778.6	1752.6
12.5°	2022.7	2031.4	2018.5	2016.7	1997.4	1974.7	1942.3	1928.2	1880.8	1835.4	1807.5
15°	2113.5	2112.9	2114.2	2102.8	2088.7	2085.1	2050.8	2013.6	1946.7	1920.0	1873.9
17.5°	2087.2	2096.2	2100.4	2100.2	2099.9	2097.7	2086.7	2063.2	2029.6	1986.5	1933.1
20°	2024.8	2036.6	2038.4	2052.0	2059.7	2069.7	2073.9	2067.3	2046.7	2010.5	1964.4
22.5°	1928.2	1931.5	1937.1	1958.3	1975.0	2000.2	2013.3	2035.2	2027.2	2009.6	1971.0
25°	1760.9	1755.0	1775.7	1786.3	1824.8	1865.0	1894.0	1925.9	1954.4	1971.5	1960.2
27.5°	1560.0	1551.0	1582.1	1610.3	1641.6	1685.2	1730.4	1783.7	1828.1	1883.6	1902.6
30°	1390.4	1395.8	1425.4	1455.5	1502.9	1564.4	1615.3	1673.9	1737.2	1799.3	1842.5
32.5°	1207.7	1228.2	1247.0	1293.2	1334.9	1403.5	1478.0	1551.3	1630.2	1700.8	1767.7
35°	958.5	982.2	1008.3	1042.0	1100.5	1168.6	1241.4	1340.2	1447.9	1544.4	1623.6
37.5°	806.8	803.1	818.0	842.3	889.7	944.7	1028.5	1126.1	1252.9	1366.2	1478.0
40°	716.0	713.5	724.2	746.7	782.8	823.0	896.4	982.2	1099.9	1238.4	1371.5
42.5°	653.4	654.9	660.8	676.6	701.4	734.5	789.4	862.5	970.3	1100.6	1243.8
45°	577.5	581.7	588.2	595.8	610.0	637.2	668.0	720.1	805.3	914.2	1055.0
47.5°	522.8	522.9	529.6	536.3	544.7	560.1	585.1	617.9	678.0	766.6	887.7
50°	493.5	489.4	494.1	499.4	508.3	518.9	535.5	566.2	606.5	678.1	779.3
52.5°	457.5	457.6	461.9	463.9	471.8	482.5	497.6	518.9	555.4	611.4	694.6
55°	405.9	408.8	411.3	414.7	421.9	429.5	441.4	455.6	484.0	526.0	587.5
57.5°	357.4	358.3	360.7	367.5	371.9	379.1	390.3	403.1	421.6	452.7	499.0
60°	324.2	324.2	329.0	331.9	337.9	344.9	353.8	366.2	382.8	408.2	445.6
62.5°	294.0	293.5	295.3	300.2	304.7	311.4	320.2	330.7	346.3	369.0	399.7
65°	249.7	248.5	252.1	253.2	258.0	264.5	271.6	282.9	295.2	311.8	339.0
67.5°	207.1	208.5	210.4	212.7	215.3	222.1	226.9	234.8	245.3	259.0	277.5
70°	183.4	183.4	183.4	185.2	188.8	192.3	197.1	203.6	213.6	225.4	242.0
72.5°	156.9	158.8	160.7	159.6	164.2	166.3	171.9	175.6	185.2	192.8	207.4
75°	123.1	123.1	123.1	126.0	127.8	129.6	133.1	136.7	141.4	150.9	158.5
77.5°	91.8	91.6	92.2	92.9	94.8	96.9	98.0	101.2	105.6	109.9	116.5
80°	71.0	72.2	72.8	73.9	73.9	75.2	75.7	79.9	82.8	85.8	90.0
82.5°	54.9	55.1	55.3	55.5	56.0	56.7	58.2	59.6	60.5	63.0	66.3
85°	31.9	31.4	31.4	32.5	31.9	31.9	33.2	34.3	34.3	34.9	36.6
87.5°	13.8	13.8	14.3	13.8	13.7	14.2	14.1	13.6	14.0	14.4	14.8
90°	7.8	7.7	7.5	7.4	7.3	7.0	6.7	6.4	6.1	5.8	5.3
92.5°	7.8	7.7	7.7	7.6	7.5	7.3	7.2	7.0	6.9	6.7	6.4
95°	12.4	12.5	12.5	12.6	12.7	12.5	12.2	11.9	11.6	11.2	10.8
97.5°	16.6	16.5	16.4	16.3	16.2	16.1	15.8	15.6	15.3	15.1	14.0
100°	19.4	19.2	19.1	18.9	18.8	18.5	18.0	17.5	16.9	16.4	15.3
102.5°	20.7	20.5	20.3	20.2	20.0	19.5	18.9	18.2	17.6	16.9	26.0
105°	21.9	21.7	21.4	21.1	20.9	20.4	19.7	19.0	18.3	17.6	35.0
107.5°	22.6	22.3	22.0	21.8	21.5	21.8	22.5	23.2	23.9	24.6	45.6
110°	22.7	22.6	22.3	22.0	21.8	24.8	31.2	37.6	44.1	50.5	68.9



TEST NUMBER: P331375-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	23.0	22.8	22.6	22.4	22.2	33.8	57.2	80.5	103.9	127.2	131.8
115°	23.6	28.3	32.9	37.5	42.1	59.2	88.9	118.6	148.2	177.9	176.3
117.5°	96.6	111.7	126.9	142.0	157.2	168.4	175.5	182.7	189.8	197.1	195.9
120°	175.8	184.5	193.1	201.8	210.4	214.4	213.7	212.9	212.1	211.3	210.2
122.5°	219.5	221.1	222.8	224.5	226.1	226.8	226.3	225.9	225.4	225.0	223.7
125°	246.5	246.3	246.1	245.9	245.8	245.4	245.0	244.5	244.1	243.6	242.4
127.5°	263.6	263.5	263.5	263.5	263.4	263.1	262.4	261.8	261.1	260.5	259.6
130°	274.2	274.3	274.3	274.4	274.5	274.1	273.4	272.7	272.0	271.3	270.6
132.5°	284.5	284.6	284.7	284.7	284.8	284.5	283.9	283.4	282.8	282.1	281.4
135°	299.5	299.7	299.8	300.0	300.1	299.8	299.2	298.5	297.9	297.3	296.7
137.5°	313.3	313.4	313.7	313.9	314.1	313.9	313.3	312.6	312.0	311.4	310.8
140°	321.7	322.1	322.4	322.7	323.1	322.9	322.4	321.7	321.2	320.6	319.9
142.5°	330.0	330.4	330.7	331.0	331.4	331.3	330.7	330.2	329.7	329.1	328.3
145°	341.6	342.0	342.3	342.6	343.0	342.9	342.4	342.0	341.5	341.1	340.0
147.5°	351.9	352.1	352.4	352.7	352.9	352.9	352.6	352.2	351.9	351.6	350.5
150°	358.1	358.4	358.7	359.1	359.4	359.4	358.9	358.6	358.2	357.8	356.8
152.5°	363.4	363.8	364.3	364.6	365.1	365.1	364.7	364.4	363.9	363.6	362.6
155°	370.8	371.3	371.8	372.3	372.8	372.9	372.5	372.1	371.8	371.3	370.6
157.5°	377.6	378.0	378.5	379.0	379.5	379.5	379.2	378.7	378.3	377.8	377.3
160°	381.5	381.9	382.4	382.8	383.3	383.3	382.9	382.5	382.1	381.7	381.4
162.5°	384.7	385.2	385.8	386.3	386.9	386.9	386.5	386.0	385.7	385.2	384.9
165°	389.5	389.9	390.4	390.8	391.3	391.3	390.8	390.4	389.9	389.5	389.3
167.5°	392.5	393.2	393.7	394.3	394.8	394.9	394.5	394.0	393.6	393.2	393.0
170°	394.4	395.0	395.6	396.2	396.7	396.8	396.4	395.9	395.5	395.0	394.8
172.5°	395.8	396.4	397.0	397.5	398.1	398.1	397.7	397.3	396.8	396.4	396.3
175°	397.0	397.6	398.3	399.0	399.6	399.7	399.2	398.8	398.3	397.9	397.8
177.5°	397.8	398.2	398.7	399.1	399.6	399.7	399.3	399.0	398.6	398.2	398.1
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331375-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1579.8	1576.0	1573.7	1565.1	1557.6	1550.0	1547.7	1548.5	1538.2	1528.2	1523.9
5°	1641.4	1629.5	1618.3	1602.3	1583.4	1562.6	1552.0	1543.7	1523.0	1500.6	1487.6
7.5°	1696.5	1679.5	1658.0	1627.9	1600.3	1567.7	1547.0	1528.7	1498.4	1466.7	1447.2
10°	1730.1	1707.0	1679.2	1642.5	1608.8	1569.1	1541.3	1513.6	1478.0	1440.2	1416.5
12.5°	1759.0	1727.9	1700.5	1653.4	1613.6	1564.0	1531.0	1491.7	1454.4	1409.4	1386.3
15°	1827.7	1770.3	1718.2	1665.0	1615.9	1546.7	1510.0	1457.3	1408.2	1352.6	1326.0
17.5°	1880.9	1816.4	1734.4	1666.7	1609.4	1532.8	1478.9	1415.8	1357.7	1294.1	1257.9
20°	1911.2	1837.2	1749.0	1668.6	1599.9	1512.3	1453.8	1389.3	1321.2	1249.6	1210.6
22.5°	1929.1	1851.4	1764.2	1661.4	1581.0	1495.8	1422.1	1351.4	1282.5	1205.1	1164.2
25°	1934.8	1863.9	1771.6	1655.6	1557.4	1460.9	1372.2	1303.5	1220.0	1147.9	1088.2
27.5°	1906.7	1855.7	1767.0	1644.4	1530.0	1417.2	1318.3	1240.5	1152.5	1074.2	1014.1
30°	1872.1	1842.5	1756.1	1633.1	1508.2	1387.0	1278.1	1189.9	1102.3	1023.1	961.5
32.5°	1818.6	1812.2	1736.3	1616.9	1485.1	1348.6	1235.9	1146.8	1049.8	971.9	913.2
35°	1713.5	1742.0	1694.0	1581.0	1441.4	1294.1	1172.2	1070.4	969.8	895.2	840.2
37.5°	1572.7	1643.2	1630.7	1528.3	1382.4	1234.7	1100.1	993.7	897.9	822.6	768.6
40°	1475.7	1565.6	1578.6	1488.1	1340.8	1188.7	1046.2	940.2	846.7	778.1	723.6
42.5°	1371.5	1476.6	1512.3	1439.8	1295.3	1140.4	997.8	888.1	795.6	728.9	680.6
45°	1197.0	1336.1	1400.5	1359.1	1219.5	1060.9	914.2	802.9	718.9	656.2	618.9
47.5°	1033.8	1185.7	1272.5	1257.8	1135.1	978.0	832.9	726.2	644.4	594.4	561.1
50°	918.3	1074.5	1179.2	1184.0	1074.5	918.9	773.4	672.8	597.6	550.9	523.6
52.5°	818.0	967.1	1081.3	1106.3	1006.8	857.4	719.9	619.7	553.6	510.6	486.2
55°	687.0	813.0	939.6	985.8	905.9	763.8	636.7	548.5	486.3	456.8	435.5
57.5°	571.1	676.2	793.1	844.1	794.9	673.3	554.0	477.5	427.0	401.2	384.9
60°	510.1	592.9	697.1	758.0	715.3	607.1	502.9	430.2	388.8	365.7	350.3
62.5°	453.3	526.6	614.7	670.4	647.2	545.1	451.8	387.5	351.8	330.2	319.1
65°	374.0	431.9	500.0	551.4	536.1	458.5	382.3	327.2	298.8	281.6	272.8
67.5°	307.9	349.8	397.0	442.1	429.7	374.8	313.4	270.6	249.5	234.7	229.3
70°	266.3	298.2	340.2	376.3	366.2	321.3	272.8	236.1	217.8	205.4	200.0
72.5°	226.5	252.8	284.8	314.3	307.6	270.2	229.7	202.0	187.9	176.5	172.1
75°	171.0	191.1	210.6	230.2	228.4	199.4	175.8	154.4	143.2	134.3	132.5
77.5°	126.3	137.5	150.8	162.4	159.2	142.6	124.0	111.8	103.5	97.6	96.7
80°	96.5	103.0	112.4	120.7	116.5	109.5	94.7	85.8	79.9	73.9	71.6
82.5°	69.9	76.4	82.1	86.6	83.5	76.8	67.7	61.6	58.1	54.0	53.1
85°	36.6	40.2	42.6	43.8	42.6	38.4	34.3	31.9	29.0	27.2	26.7
87.5°	15.2	15.1	15.0	15.8	14.2	14.1	12.0	10.4	10.2	9.8	9.0
90°	4.7	4.2	3.7	3.1	2.4	1.7	1.0	0.3	1.0	1.7	2.4
92.5°	6.2	5.9	5.7	5.5	5.6	5.7	5.8	5.8	5.8	5.7	5.6
95°	10.3	9.9	9.5	10.3	12.4	14.5	16.6	18.7	16.6	14.5	12.4
97.5°	12.9	11.9	10.9	13.4	19.4	25.2	31.2	37.2	31.2	25.2	19.4
100°	14.3	13.2	12.0	16.0	24.7	33.4	42.3	51.0	42.3	33.4	24.7
102.5°	35.1	44.2	53.3	58.9	60.7	62.5	64.4	66.3	64.4	62.5	60.7
105°	52.6	70.1	87.6	95.3	93.5	91.5	89.5	87.7	89.5	91.5	93.5
107.5°	66.6	87.6	108.5	118.2	116.7	115.1	113.6	112.0	113.6	115.1	116.7
110°	87.5	106.0	124.5	133.1	131.8	130.5	129.0	127.7	129.0	130.5	131.8



TEST NUMBER: P331375-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	136.4	141.0	145.5	147.2	146.1	144.9	143.7	142.5	143.7	144.9	146.1
115°	174.7	173.1	171.5	170.1	169.1	168.0	166.8	165.8	166.8	168.0	169.1
117.5°	194.8	193.8	192.6	191.5	190.3	189.0	187.8	186.6	187.8	189.0	190.3
120°	209.0	207.9	206.7	205.6	204.7	203.8	202.8	201.8	202.8	203.8	204.7
122.5°	222.4	221.1	219.9	218.8	217.8	216.8	215.8	214.7	215.8	216.8	217.8
125°	241.2	240.0	238.8	237.7	236.9	236.0	235.2	234.4	235.2	236.0	236.9
127.5°	258.7	257.7	256.8	255.9	255.0	254.0	253.2	252.2	253.2	254.0	255.0
130°	269.9	269.2	268.5	267.6	266.6	265.6	264.6	263.5	264.6	265.6	266.6
132.5°	280.7	280.0	279.3	278.6	277.7	276.8	275.9	275.1	275.9	276.8	277.7
135°	296.1	295.5	295.0	294.2	293.1	292.1	291.1	290.1	291.1	292.1	293.1
137.5°	310.0	309.4	308.8	308.1	307.4	306.7	305.9	305.2	305.9	306.7	307.4
140°	319.2	318.5	317.8	317.2	316.6	316.1	315.7	315.1	315.7	316.1	316.6
142.5°	327.5	326.7	325.9	325.3	324.9	324.3	323.9	323.4	323.9	324.3	324.9
145°	338.9	337.8	336.7	336.2	336.3	336.4	336.4	336.4	336.4	336.4	336.3
147.5°	349.5	348.3	347.2	346.9	347.1	347.3	347.6	347.9	347.6	347.3	347.1
150°	355.8	354.7	353.7	353.4	353.8	354.3	354.7	355.2	354.7	354.3	353.8
152.5°	361.6	360.6	359.6	359.4	359.9	360.4	361.0	361.4	361.0	360.4	359.9
155°	369.8	369.1	368.3	368.2	368.7	369.3	369.9	370.5	369.9	369.3	368.7
157.5°	376.7	376.2	375.7	375.6	376.1	376.6	377.1	377.6	377.1	376.6	376.1
160°	380.9	380.6	380.2	380.2	380.6	380.9	381.4	381.7	381.4	380.9	380.6
162.5°	384.5	384.1	383.9	383.9	384.2	384.7	385.0	385.4	385.0	384.7	384.2
165°	389.1	389.0	388.8	388.9	389.2	389.6	390.0	390.4	390.0	389.6	389.2
167.5°	392.8	392.6	392.4	392.5	392.9	393.3	393.7	394.0	393.7	393.3	392.9
170°	394.8	394.6	394.5	394.6	395.0	395.4	395.7	396.2	395.7	395.4	395.0
172.5°	396.1	396.0	395.8	396.0	396.4	396.7	397.2	397.5	397.2	396.7	396.4
175°	397.6	397.5	397.3	397.5	398.0	398.4	398.9	399.3	398.9	398.4	398.0
177.5°	398.1	398.1	398.1	398.1	398.5	398.9	399.2	399.6	399.2	398.9	398.5
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331375-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1519.2	1516.4	1506.5	1501.3	1492.7	1484.7	1479.4	1481.8	1483.7	1482.7	1481.4
5°	1475.7	1464.5	1447.2	1432.4	1421.8	1402.3	1394.0	1389.9	1386.3	1382.2	1378.0
7.5°	1423.9	1406.1	1381.4	1360.4	1340.5	1316.3	1302.4	1294.1	1285.7	1276.3	1268.0
10°	1387.0	1362.1	1336.1	1306.4	1282.8	1260.9	1241.4	1228.3	1216.6	1205.2	1197.0
12.5°	1348.1	1319.5	1287.3	1246.8	1220.8	1189.5	1186.4	1163.5	1145.0	1138.1	1128.4
15°	1286.4	1246.1	1205.2	1157.4	1136.7	1108.2	1090.5	1072.7	1056.8	1045.5	1042.6
17.5°	1216.2	1164.1	1123.5	1089.0	1055.1	1026.0	1009.7	995.5	982.3	967.3	965.3
20°	1162.7	1117.7	1073.4	1043.1	1008.3	978.7	958.5	944.3	933.1	924.3	916.5
22.5°	1112.1	1062.8	1022.2	989.2	954.8	930.9	915.0	901.3	891.9	882.1	874.9
25°	1030.7	992.3	947.9	910.6	882.2	866.8	853.8	842.0	836.1	829.6	821.3
27.5°	959.6	916.9	875.4	846.5	821.5	807.9	798.7	790.6	785.1	781.2	776.5
30°	909.5	866.2	833.7	805.3	784.6	771.0	765.1	760.4	753.9	751.4	749.1
32.5°	861.1	822.2	794.4	769.8	750.0	741.2	735.8	731.5	726.4	724.0	719.3
35°	792.9	760.4	733.1	719.5	703.6	695.8	691.7	685.8	681.0	678.7	678.1
37.5°	728.6	700.3	682.4	664.9	658.2	653.4	647.8	643.7	642.3	641.9	641.4
40°	687.0	663.9	647.9	633.7	630.7	623.7	618.9	615.4	615.4	616.0	615.4
42.5°	649.1	628.4	614.3	602.0	598.5	594.3	589.6	589.3	590.3	592.3	590.3
45°	591.7	576.9	566.9	560.9	554.4	550.3	549.7	551.4	552.1	552.7	554.4
47.5°	539.0	529.1	520.0	513.4	510.6	509.9	509.2	512.3	515.1	516.2	518.9
50°	507.7	496.4	488.7	484.6	482.2	481.1	482.2	485.8	488.1	491.1	492.8
52.5°	472.6	464.7	459.4	456.2	455.2	455.9	456.2	460.2	464.0	465.0	465.9
55°	424.3	418.3	417.1	411.8	414.2	413.6	416.5	418.9	422.5	426.1	426.6
57.5°	375.9	371.2	368.0	368.5	369.3	371.8	374.3	378.4	382.3	386.0	386.4
60°	343.8	341.4	339.7	339.7	340.8	344.4	347.3	351.4	353.8	356.2	357.9
62.5°	314.4	312.1	310.3	311.2	314.3	316.5	319.9	322.1	324.5	326.8	327.7
65°	268.0	266.9	268.7	269.8	270.4	273.4	277.5	279.3	281.6	282.9	287.0
67.5°	225.3	225.5	225.3	226.9	230.4	231.1	235.1	239.2	239.6	241.9	244.6
70°	196.4	197.6	198.9	200.0	203.0	204.1	207.1	208.8	211.2	213.0	214.8
72.5°	170.0	170.1	171.4	171.1	173.6	176.2	178.7	180.5	182.8	185.1	186.8
75°	130.7	130.7	132.0	132.5	135.5	138.5	137.9	139.0	141.4	143.7	145.0
77.5°	95.5	94.2	95.5	96.1	97.0	99.5	100.0	101.7	104.3	103.5	104.9
80°	72.8	71.0	72.8	73.4	73.4	76.3	76.3	77.5	79.3	77.5	79.3
82.5°	52.0	51.1	52.4	52.5	53.5	53.6	54.6	54.8	56.5	55.7	56.5
85°	26.0	25.4	26.0	25.4	26.0	26.7	26.7	26.0	26.0	27.2	25.4
87.5°	8.6	8.3	7.9	8.0	7.7	7.3	6.9	7.0	7.0	6.2	6.2
90°	3.1	3.7	4.2	4.7	5.3	5.8	6.1	6.4	6.7	7.0	7.3
92.5°	5.5	5.7	5.9	6.2	6.4	6.7	6.9	7.0	7.2	7.3	7.5
95°	10.3	9.5	9.9	10.3	10.8	11.2	11.6	11.9	12.2	12.5	12.7
97.5°	13.4	10.9	11.9	12.9	14.0	15.1	15.3	15.6	15.8	16.1	16.2
100°	16.0	12.0	13.2	14.3	15.3	16.4	16.9	17.5	18.0	18.5	18.8
102.5°	58.9	53.3	44.2	35.1	26.0	16.9	17.6	18.2	18.9	19.5	20.0
105°	95.3	87.6	70.1	52.6	35.0	17.6	18.3	19.0	19.7	20.4	20.9
107.5°	118.2	108.5	87.6	66.6	45.6	24.6	23.9	23.2	22.5	21.8	21.5
110°	133.1	124.5	106.0	87.5	68.9	50.5	44.1	37.6	31.2	24.8	21.8



TEST NUMBER: P331375-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	147.2	145.5	141.0	136.4	131.8	127.2	103.9	80.5	57.2	33.8	22.2
115°	170.1	171.5	173.1	174.7	176.3	177.9	148.2	118.6	88.9	59.2	42.1
117.5°	191.5	192.6	193.8	194.8	195.9	197.1	189.8	182.7	175.5	168.4	157.2
120°	205.6	206.7	207.9	209.0	210.2	211.3	212.1	212.9	213.7	214.4	210.4
122.5°	218.8	219.9	221.1	222.4	223.7	225.0	225.4	225.9	226.3	226.8	226.1
125°	237.7	238.8	240.0	241.2	242.4	243.6	244.1	244.5	245.0	245.4	245.8
127.5°	255.9	256.8	257.7	258.7	259.6	260.5	261.1	261.8	262.4	263.1	263.4
130°	267.6	268.5	269.2	269.9	270.6	271.3	272.0	272.7	273.4	274.1	274.5
132.5°	278.6	279.3	280.0	280.7	281.4	282.1	282.8	283.4	283.9	284.5	284.8
135°	294.2	295.0	295.5	296.1	296.7	297.3	297.9	298.5	299.2	299.8	300.1
137.5°	308.1	308.8	309.4	310.0	310.8	311.4	312.0	312.6	313.3	313.9	314.1
140°	317.2	317.8	318.5	319.2	319.9	320.6	321.2	321.7	322.4	322.9	323.1
142.5°	325.3	325.9	326.7	327.5	328.3	329.1	329.7	330.2	330.7	331.3	331.4
145°	336.2	336.7	337.8	338.9	340.0	341.1	341.5	342.0	342.4	342.9	343.0
147.5°	346.9	347.2	348.3	349.5	350.5	351.6	351.9	352.2	352.6	352.9	352.9
150°	353.4	353.7	354.7	355.8	356.8	357.8	358.2	358.6	358.9	359.4	359.4
152.5°	359.4	359.6	360.6	361.6	362.6	363.6	363.9	364.4	364.7	365.1	365.1
155°	368.2	368.3	369.1	369.8	370.6	371.3	371.8	372.1	372.5	372.9	372.8
157.5°	375.6	375.7	376.2	376.7	377.3	377.8	378.3	378.7	379.2	379.5	379.5
160°	380.2	380.2	380.6	380.9	381.4	381.7	382.1	382.5	382.9	383.3	383.3
162.5°	383.9	383.9	384.1	384.5	384.9	385.2	385.7	386.0	386.5	386.9	386.9
165°	388.9	388.8	389.0	389.1	389.3	389.5	389.9	390.4	390.8	391.3	391.3
167.5°	392.5	392.4	392.6	392.8	393.0	393.2	393.6	394.0	394.5	394.9	394.8
170°	394.6	394.5	394.6	394.8	394.8	395.0	395.5	395.9	396.4	396.8	396.7
172.5°	396.0	395.8	396.0	396.1	396.3	396.4	396.8	397.3	397.7	398.1	398.1
175°	397.5	397.3	397.5	397.6	397.8	397.9	398.3	398.8	399.2	399.7	399.6
177.5°	398.1	398.1	398.1	398.1	398.1	398.2	398.6	399.0	399.3	399.7	399.6
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331375-940
 CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1476.6	1475.7	1475.7	1471.4	1475.7	1475.7	1476.6	1481.4	1482.7	1483.7	1481.8
5°	1369.8	1368.0	1365.0	1368.0	1365.0	1368.0	1369.8	1378.0	1382.2	1386.3	1389.9
7.5°	1264.1	1257.0	1255.9	1248.9	1255.9	1257.0	1264.1	1268.0	1276.3	1285.7	1294.1
10°	1187.0	1182.2	1181.6	1170.4	1181.6	1182.2	1187.0	1197.0	1205.2	1216.6	1228.3
12.5°	1128.3	1116.9	1119.1	1112.6	1119.1	1116.9	1128.3	1128.4	1138.1	1145.0	1163.5
15°	1026.6	1026.6	1024.2	1014.1	1024.2	1026.6	1026.6	1042.6	1045.5	1056.8	1072.7
17.5°	953.6	952.3	946.7	949.6	946.7	952.3	953.6	965.3	967.3	982.3	995.5
20°	910.0	906.5	899.4	899.4	899.4	906.5	910.0	916.5	924.3	933.1	944.3
22.5°	868.9	868.6	861.0	863.4	861.0	868.6	868.9	874.9	882.1	891.9	901.3
25°	820.6	815.9	812.4	814.1	812.4	815.9	820.6	821.3	829.6	836.1	842.0
27.5°	775.0	772.4	772.1	767.3	772.1	772.4	775.0	776.5	781.2	785.1	790.6
30°	748.5	742.6	743.8	740.8	743.8	742.6	748.5	749.1	751.4	753.9	760.4
32.5°	718.2	716.0	714.9	712.4	714.9	716.0	718.2	719.3	724.0	726.4	731.5
35°	676.9	677.5	674.5	675.7	674.5	677.5	676.9	678.1	678.7	681.0	685.8
37.5°	640.8	642.7	641.3	641.7	641.3	642.7	640.8	641.4	641.9	642.3	643.7
40°	617.2	617.2	617.2	618.9	617.2	617.2	617.2	615.4	616.0	615.4	615.4
42.5°	594.4	593.4	592.5	592.4	592.5	593.4	594.4	590.3	592.3	590.3	589.3
45°	555.6	557.4	557.9	555.0	557.9	557.4	555.6	554.4	552.7	552.1	551.4
47.5°	520.5	520.7	520.5	523.1	520.5	520.7	520.5	518.9	516.2	515.1	512.3
50°	495.9	494.6	495.9	494.6	495.9	494.6	495.9	492.8	491.1	488.1	485.8
52.5°	469.8	470.0	469.3	469.1	469.3	470.0	469.8	465.9	465.0	464.0	460.2
55°	429.0	430.2	429.5	429.5	429.5	430.2	429.0	426.6	426.1	422.5	418.9
57.5°	386.7	387.8	388.6	386.0	388.6	387.8	386.7	386.4	386.0	382.3	378.4
60°	357.4	360.3	359.7	358.6	359.7	360.3	357.4	357.9	356.2	353.8	351.4
62.5°	330.4	331.4	331.4	331.1	331.4	331.4	330.4	327.7	326.8	324.5	322.1
65°	288.7	289.9	288.1	289.9	288.1	289.9	288.7	287.0	282.9	281.6	279.3
67.5°	243.9	244.2	245.6	246.4	245.6	244.2	243.9	244.6	241.9	239.6	239.2
70°	216.0	215.3	217.1	218.9	217.1	215.3	216.0	214.8	213.0	211.2	208.8
72.5°	186.6	187.9	187.3	188.6	187.3	187.9	186.6	186.8	185.1	182.8	180.5
75°	143.7	145.5	145.0	146.8	145.0	145.5	143.7	145.0	143.7	141.4	139.0
77.5°	103.9	104.2	103.9	104.9	103.9	104.2	103.9	104.9	103.5	104.3	101.7
80°	79.3	78.1	77.0	79.3	77.0	78.1	79.3	79.3	77.5	79.3	77.5
82.5°	55.1	55.8	54.7	54.7	54.7	55.8	55.1	56.5	55.7	56.5	54.8
85°	25.4	24.9	23.6	23.6	23.6	24.9	25.4	25.4	27.2	26.0	26.0
87.5°	6.2	5.8	5.8	5.4	5.8	5.8	6.2	6.2	6.2	7.0	7.0
90°	7.4	7.5	7.7	7.8	7.7	7.5	7.4	7.3	7.0	6.7	6.4
92.5°	7.6	7.7	7.7	7.8	7.7	7.7	7.6	7.5	7.3	7.2	7.0
95°	12.6	12.5	12.5	12.4	12.5	12.5	12.6	12.7	12.5	12.2	11.9
97.5°	16.3	16.4	16.5	16.6	16.5	16.4	16.3	16.2	16.1	15.8	15.6
100°	18.9	19.1	19.2	19.4	19.2	19.1	18.9	18.8	18.5	18.0	17.5
102.5°	20.2	20.3	20.5	20.7	20.5	20.3	20.2	20.0	19.5	18.9	18.2
105°	21.1	21.4	21.7	21.9	21.7	21.4	21.1	20.9	20.4	19.7	19.0
107.5°	21.8	22.0	22.3	22.6	22.3	22.0	21.8	21.5	21.8	22.5	23.2
110°	22.0	22.3	22.6	22.7	22.6	22.3	22.0	21.8	24.8	31.2	37.6



TEST NUMBER: P331375-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	22.4	22.6	22.8	23.0	22.8	22.6	22.4	22.2	33.8	57.2	80.5
115°	37.5	32.9	28.3	23.6	28.3	32.9	37.5	42.1	59.2	88.9	118.6
117.5°	142.0	126.9	111.7	96.6	111.7	126.9	142.0	157.2	168.4	175.5	182.7
120°	201.8	193.1	184.5	175.8	184.5	193.1	201.8	210.4	214.4	213.7	212.9
122.5°	224.5	222.8	221.1	219.5	221.1	222.8	224.5	226.1	226.8	226.3	225.9
125°	245.9	246.1	246.3	246.5	246.3	246.1	245.9	245.8	245.4	245.0	244.5
127.5°	263.5	263.5	263.5	263.6	263.5	263.5	263.5	263.4	263.1	262.4	261.8
130°	274.4	274.3	274.3	274.2	274.3	274.3	274.4	274.5	274.1	273.4	272.7
132.5°	284.7	284.7	284.6	284.5	284.6	284.7	284.7	284.8	284.5	283.9	283.4
135°	300.0	299.8	299.7	299.5	299.7	299.8	300.0	300.1	299.8	299.2	298.5
137.5°	313.9	313.7	313.4	313.3	313.4	313.7	313.9	314.1	313.9	313.3	312.6
140°	322.7	322.4	322.1	321.7	322.1	322.4	322.7	323.1	322.9	322.4	321.7
142.5°	331.0	330.7	330.4	330.0	330.4	330.7	331.0	331.4	331.3	330.7	330.2
145°	342.6	342.3	342.0	341.6	342.0	342.3	342.6	343.0	342.9	342.4	342.0
147.5°	352.7	352.4	352.1	351.9	352.1	352.4	352.7	352.9	352.9	352.6	352.2
150°	359.1	358.7	358.4	358.1	358.4	358.7	359.1	359.4	359.4	358.9	358.6
152.5°	364.6	364.3	363.8	363.4	363.8	364.3	364.6	365.1	365.1	364.7	364.4
155°	372.3	371.8	371.3	370.8	371.3	371.8	372.3	372.8	372.9	372.5	372.1
157.5°	379.0	378.5	378.0	377.6	378.0	378.5	379.0	379.5	379.5	379.2	378.7
160°	382.8	382.4	381.9	381.5	381.9	382.4	382.8	383.3	383.3	382.9	382.5
162.5°	386.3	385.8	385.2	384.7	385.2	385.8	386.3	386.9	386.9	386.5	386.0
165°	390.8	390.4	389.9	389.5	389.9	390.4	390.8	391.3	391.3	390.8	390.4
167.5°	394.3	393.7	393.2	392.5	393.2	393.7	394.3	394.8	394.9	394.5	394.0
170°	396.2	395.6	395.0	394.4	395.0	395.6	396.2	396.7	396.8	396.4	395.9
172.5°	397.5	397.0	396.4	395.8	396.4	397.0	397.5	398.1	398.1	397.7	397.3
175°	399.0	398.3	397.6	397.0	397.6	398.3	399.0	399.6	399.7	399.2	398.8
177.5°	399.1	398.7	398.2	397.8	398.2	398.7	399.1	399.6	399.7	399.3	399.0
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331375-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1479.4	1484.7	1492.7	1501.3	1506.5	1516.4	1519.2	1523.9	1528.2	1538.2	1548.5
5°	1394.0	1402.3	1421.8	1432.4	1447.2	1464.5	1475.7	1487.6	1500.6	1523.0	1543.7
7.5°	1302.4	1316.3	1340.5	1360.4	1381.4	1406.1	1423.9	1447.2	1466.7	1498.4	1528.7
10°	1241.4	1260.9	1282.8	1306.4	1336.1	1362.1	1387.0	1416.5	1440.2	1478.0	1513.6
12.5°	1186.4	1189.5	1220.8	1246.8	1287.3	1319.5	1348.1	1386.3	1409.4	1454.4	1491.7
15°	1090.5	1108.2	1136.7	1157.4	1205.2	1246.1	1286.4	1326.0	1352.6	1408.2	1457.3
17.5°	1009.7	1026.0	1055.1	1089.0	1123.5	1164.1	1216.2	1257.9	1294.1	1357.7	1415.8
20°	958.5	978.7	1008.3	1043.1	1073.4	1117.7	1162.7	1210.6	1249.6	1321.2	1389.3
22.5°	915.0	930.9	954.8	989.2	1022.2	1062.8	1112.1	1164.2	1205.1	1282.5	1351.4
25°	853.8	866.8	882.2	910.6	947.9	992.3	1030.7	1088.2	1147.9	1220.0	1303.5
27.5°	798.7	807.9	821.5	846.5	875.4	916.9	959.6	1014.1	1074.2	1152.5	1240.5
30°	765.1	771.0	784.6	805.3	833.7	866.2	909.5	961.5	1023.1	1102.3	1189.9
32.5°	735.8	741.2	750.0	769.8	794.4	822.2	861.1	913.2	971.9	1049.8	1146.8
35°	691.7	695.8	703.6	719.5	733.1	760.4	792.9	840.2	895.2	969.8	1070.4
37.5°	647.8	653.4	658.2	664.9	682.4	700.3	728.6	768.6	822.6	897.9	993.7
40°	618.9	623.7	630.7	633.7	647.9	663.9	687.0	723.6	778.1	846.7	940.2
42.5°	589.6	594.3	598.5	602.0	614.3	628.4	649.1	680.6	728.9	795.6	888.1
45°	549.7	550.3	554.4	560.9	566.9	576.9	591.7	618.9	656.2	718.9	802.9
47.5°	509.2	509.9	510.6	513.4	520.0	529.1	539.0	561.1	594.4	644.4	726.2
50°	482.2	481.1	482.2	484.6	488.7	496.4	507.7	523.6	550.9	597.6	672.8
52.5°	456.2	455.9	455.2	456.2	459.4	464.7	472.6	486.2	510.6	553.6	619.7
55°	416.5	413.6	414.2	411.8	417.1	418.3	424.3	435.5	456.8	486.3	548.5
57.5°	374.3	371.8	369.3	368.5	368.0	371.2	375.9	384.9	401.2	427.0	477.5
60°	347.3	344.4	340.8	339.7	339.7	341.4	343.8	350.3	365.7	388.8	430.2
62.5°	319.9	316.5	314.3	311.2	310.3	312.1	314.4	319.1	330.2	351.8	387.5
65°	277.5	273.4	270.4	269.8	268.7	266.9	268.0	272.8	281.6	298.8	327.2
67.5°	235.1	231.1	230.4	226.9	225.3	225.5	225.3	229.3	234.7	249.5	270.6
70°	207.1	204.1	203.0	200.0	198.9	197.6	196.4	200.0	205.4	217.8	236.1
72.5°	178.7	176.2	173.6	171.1	171.4	170.1	170.0	172.1	176.5	187.9	202.0
75°	137.9	138.5	135.5	132.5	132.0	130.7	130.7	132.5	134.3	143.2	154.4
77.5°	100.0	99.5	97.0	96.1	95.5	94.2	95.5	96.7	97.6	103.5	111.8
80°	76.3	76.3	73.4	73.4	72.8	71.0	72.8	71.6	73.9	79.9	85.8
82.5°	54.6	53.6	53.5	52.5	52.4	51.1	52.0	53.1	54.0	58.1	61.6
85°	26.7	26.7	26.0	25.4	26.0	25.4	26.0	26.7	27.2	29.0	31.9
87.5°	6.9	7.3	7.7	8.0	7.9	8.3	8.6	9.0	9.8	10.2	10.4
90°	6.1	5.8	5.3	4.7	4.2	3.7	3.1	2.4	1.7	1.0	0.3
92.5°	6.9	6.7	6.4	6.2	5.9	5.7	5.5	5.6	5.7	5.8	5.8
95°	11.6	11.2	10.8	10.3	9.9	9.5	10.3	12.4	14.5	16.6	18.7
97.5°	15.3	15.1	14.0	12.9	11.9	10.9	13.4	19.4	25.2	31.2	37.2
100°	16.9	16.4	15.3	14.3	13.2	12.0	16.0	24.7	33.4	42.3	51.0
102.5°	17.6	16.9	26.0	35.1	44.2	53.3	58.9	60.7	62.5	64.4	66.3
105°	18.3	17.6	35.0	52.6	70.1	87.6	95.3	93.5	91.5	89.5	87.7
107.5°	23.9	24.6	45.6	66.6	87.6	108.5	118.2	116.7	115.1	113.6	112.0
110°	44.1	50.5	68.9	87.5	106.0	124.5	133.1	131.8	130.5	129.0	127.7



TEST NUMBER: P331375-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	103.9	127.2	131.8	136.4	141.0	145.5	147.2	146.1	144.9	143.7	142.5
115°	148.2	177.9	176.3	174.7	173.1	171.5	170.1	169.1	168.0	166.8	165.8
117.5°	189.8	197.1	195.9	194.8	193.8	192.6	191.5	190.3	189.0	187.8	186.6
120°	212.1	211.3	210.2	209.0	207.9	206.7	205.6	204.7	203.8	202.8	201.8
122.5°	225.4	225.0	223.7	222.4	221.1	219.9	218.8	217.8	216.8	215.8	214.7
125°	244.1	243.6	242.4	241.2	240.0	238.8	237.7	236.9	236.0	235.2	234.4
127.5°	261.1	260.5	259.6	258.7	257.7	256.8	255.9	255.0	254.0	253.2	252.2
130°	272.0	271.3	270.6	269.9	269.2	268.5	267.6	266.6	265.6	264.6	263.5
132.5°	282.8	282.1	281.4	280.7	280.0	279.3	278.6	277.7	276.8	275.9	275.1
135°	297.9	297.3	296.7	296.1	295.5	295.0	294.2	293.1	292.1	291.1	290.1
137.5°	312.0	311.4	310.8	310.0	309.4	308.8	308.1	307.4	306.7	305.9	305.2
140°	321.2	320.6	319.9	319.2	318.5	317.8	317.2	316.6	316.1	315.7	315.1
142.5°	329.7	329.1	328.3	327.5	326.7	325.9	325.3	324.9	324.3	323.9	323.4
145°	341.5	341.1	340.0	338.9	337.8	336.7	336.2	336.3	336.4	336.4	336.4
147.5°	351.9	351.6	350.5	349.5	348.3	347.2	346.9	347.1	347.3	347.6	347.9
150°	358.2	357.8	356.8	355.8	354.7	353.7	353.4	353.8	354.3	354.7	355.2
152.5°	363.9	363.6	362.6	361.6	360.6	359.6	359.4	359.9	360.4	361.0	361.4
155°	371.8	371.3	370.6	369.8	369.1	368.3	368.2	368.7	369.3	369.9	370.5
157.5°	378.3	377.8	377.3	376.7	376.2	375.7	375.6	376.1	376.6	377.1	377.6
160°	382.1	381.7	381.4	380.9	380.6	380.2	380.2	380.6	380.9	381.4	381.7
162.5°	385.7	385.2	384.9	384.5	384.1	383.9	383.9	384.2	384.7	385.0	385.4
165°	389.9	389.5	389.3	389.1	389.0	388.8	388.9	389.2	389.6	390.0	390.4
167.5°	393.6	393.2	393.0	392.8	392.6	392.4	392.5	392.9	393.3	393.7	394.0
170°	395.5	395.0	394.8	394.8	394.6	394.5	394.6	395.0	395.4	395.7	396.2
172.5°	396.8	396.4	396.3	396.1	396.0	395.8	396.0	396.4	396.7	397.2	397.5
175°	398.3	397.9	397.8	397.6	397.5	397.3	397.5	398.0	398.4	398.9	399.3
177.5°	398.6	398.2	398.1	398.1	398.1	398.1	398.1	398.5	398.9	399.2	399.6
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331375-940
 CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1547.7	1550.0	1557.6	1565.1	1573.7	1576.0	1579.8	1576.5	1575.6	1584.6	1591.2
5°	1552.0	1562.6	1583.4	1602.3	1618.3	1629.5	1641.4	1646.1	1654.9	1667.4	1682.7
7.5°	1547.0	1567.7	1600.3	1627.9	1658.0	1679.5	1696.5	1710.9	1728.5	1752.0	1777.7
10°	1541.3	1569.1	1608.8	1642.5	1679.2	1707.0	1730.1	1752.6	1778.6	1811.2	1844.9
12.5°	1531.0	1564.0	1613.6	1653.4	1700.5	1727.9	1759.0	1807.5	1835.4	1880.8	1928.2
15°	1510.0	1546.7	1615.9	1665.0	1718.2	1770.3	1827.7	1873.9	1920.0	1946.7	2013.6
17.5°	1478.9	1532.8	1609.4	1666.7	1734.4	1816.4	1880.9	1933.1	1986.5	2029.6	2063.2
20°	1453.8	1512.3	1599.9	1668.6	1749.0	1837.2	1911.2	1964.4	2010.5	2046.7	2067.3
22.5°	1422.1	1495.8	1581.0	1661.4	1764.2	1851.4	1929.1	1971.0	2009.6	2027.2	2035.2
25°	1372.2	1460.9	1557.4	1655.6	1771.6	1863.9	1934.8	1960.2	1971.5	1954.4	1925.9
27.5°	1318.3	1417.2	1530.0	1644.4	1767.0	1855.7	1906.7	1902.6	1883.6	1828.1	1783.7
30°	1278.1	1387.0	1508.2	1633.1	1756.1	1842.5	1872.1	1842.5	1799.3	1737.2	1673.9
32.5°	1235.9	1348.6	1485.1	1616.9	1736.3	1812.2	1818.6	1767.7	1700.8	1630.2	1551.3
35°	1172.2	1294.1	1441.4	1581.0	1694.0	1742.0	1713.5	1623.6	1544.4	1447.9	1340.2
37.5°	1100.1	1234.7	1382.4	1528.3	1630.7	1643.2	1572.7	1478.0	1366.2	1252.9	1126.1
40°	1046.2	1188.7	1340.8	1488.1	1578.6	1565.6	1475.7	1371.5	1238.4	1099.9	982.2
42.5°	997.8	1140.4	1295.3	1439.8	1512.3	1476.6	1371.5	1243.8	1100.6	970.3	862.5
45°	914.2	1060.9	1219.5	1359.1	1400.5	1336.1	1197.0	1055.0	914.2	805.3	720.1
47.5°	832.9	978.0	1135.1	1257.8	1272.5	1185.7	1033.8	887.7	766.6	678.0	617.9
50°	773.4	918.9	1074.5	1184.0	1179.2	1074.5	918.3	779.3	678.1	606.5	566.2
52.5°	719.9	857.4	1006.8	1106.3	1081.3	967.1	818.0	694.6	611.4	555.4	518.9
55°	636.7	763.8	905.9	985.8	939.6	813.0	687.0	587.5	526.0	484.0	455.6
57.5°	554.0	673.3	794.9	844.1	793.1	676.2	571.1	499.0	452.7	421.6	403.1
60°	502.9	607.1	715.3	758.0	697.1	592.9	510.1	445.6	408.2	382.8	366.2
62.5°	451.8	545.1	647.2	670.4	614.7	526.6	453.3	399.7	369.0	346.3	330.7
65°	382.3	458.5	536.1	551.4	500.0	431.9	374.0	339.0	311.8	295.2	282.9
67.5°	313.4	374.8	429.7	442.1	397.0	349.8	307.9	277.5	259.0	245.3	234.8
70°	272.8	321.3	366.2	376.3	340.2	298.2	266.3	242.0	225.4	213.6	203.6
72.5°	229.7	270.2	307.6	314.3	284.8	252.8	226.5	207.4	192.8	185.2	175.6
75°	175.8	199.4	228.4	230.2	210.6	191.1	171.0	158.5	150.9	141.4	136.7
77.5°	124.0	142.6	159.2	162.4	150.8	137.5	126.3	116.5	109.9	105.6	101.2
80°	94.7	109.5	116.5	120.7	112.4	103.0	96.5	90.0	85.8	82.8	79.9
82.5°	67.7	76.8	83.5	86.6	82.1	76.4	69.9	66.3	63.0	60.5	59.6
85°	34.3	38.4	42.6	43.8	42.6	40.2	36.6	36.6	34.9	34.3	34.3
87.5°	12.0	14.1	14.2	15.8	15.0	15.1	15.2	14.8	14.4	14.0	13.6
90°	1.0	1.7	2.4	3.1	3.7	4.2	4.7	5.3	5.8	6.1	6.4
92.5°	5.8	5.7	5.6	5.5	5.7	5.9	6.2	6.4	6.7	6.9	7.0
95°	16.6	14.5	12.4	10.3	9.5	9.9	10.3	10.8	11.2	11.6	11.9
97.5°	31.2	25.2	19.4	13.4	10.9	11.9	12.9	14.0	15.1	15.3	15.6
100°	42.3	33.4	24.7	16.0	12.0	13.2	14.3	15.3	16.4	16.9	17.5
102.5°	64.4	62.5	60.7	58.9	53.3	44.2	35.1	26.0	16.9	17.6	18.2
105°	89.5	91.5	93.5	95.3	87.6	70.1	52.6	35.0	17.6	18.3	19.0
107.5°	113.6	115.1	116.7	118.2	108.5	87.6	66.6	45.6	24.6	23.9	23.2
110°	129.0	130.5	131.8	133.1	124.5	106.0	87.5	68.9	50.5	44.1	37.6



TEST NUMBER: P331375-940
 CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	143.7	144.9	146.1	147.2	145.5	141.0	136.4	131.8	127.2	103.9	80.5
115°	166.8	168.0	169.1	170.1	171.5	173.1	174.7	176.3	177.9	148.2	118.6
117.5°	187.8	189.0	190.3	191.5	192.6	193.8	194.8	195.9	197.1	189.8	182.7
120°	202.8	203.8	204.7	205.6	206.7	207.9	209.0	210.2	211.3	212.1	212.9
122.5°	215.8	216.8	217.8	218.8	219.9	221.1	222.4	223.7	225.0	225.4	225.9
125°	235.2	236.0	236.9	237.7	238.8	240.0	241.2	242.4	243.6	244.1	244.5
127.5°	253.2	254.0	255.0	255.9	256.8	257.7	258.7	259.6	260.5	261.1	261.8
130°	264.6	265.6	266.6	267.6	268.5	269.2	269.9	270.6	271.3	272.0	272.7
132.5°	275.9	276.8	277.7	278.6	279.3	280.0	280.7	281.4	282.1	282.8	283.4
135°	291.1	292.1	293.1	294.2	295.0	295.5	296.1	296.7	297.3	297.9	298.5
137.5°	305.9	306.7	307.4	308.1	308.8	309.4	310.0	310.8	311.4	312.0	312.6
140°	315.7	316.1	316.6	317.2	317.8	318.5	319.2	319.9	320.6	321.2	321.7
142.5°	323.9	324.3	324.9	325.3	325.9	326.7	327.5	328.3	329.1	329.7	330.2
145°	336.4	336.4	336.3	336.2	336.7	337.8	338.9	340.0	341.1	341.5	342.0
147.5°	347.6	347.3	347.1	346.9	347.2	348.3	349.5	350.5	351.6	351.9	352.2
150°	354.7	354.3	353.8	353.4	353.7	354.7	355.8	356.8	357.8	358.2	358.6
152.5°	361.0	360.4	359.9	359.4	359.6	360.6	361.6	362.6	363.6	363.9	364.4
155°	369.9	369.3	368.7	368.2	368.3	369.1	369.8	370.6	371.3	371.8	372.1
157.5°	377.1	376.6	376.1	375.6	375.7	376.2	376.7	377.3	377.8	378.3	378.7
160°	381.4	380.9	380.6	380.2	380.2	380.6	380.9	381.4	381.7	382.1	382.5
162.5°	385.0	384.7	384.2	383.9	383.9	384.1	384.5	384.9	385.2	385.7	386.0
165°	390.0	389.6	389.2	388.9	388.8	389.0	389.1	389.3	389.5	389.9	390.4
167.5°	393.7	393.3	392.9	392.5	392.4	392.6	392.8	393.0	393.2	393.6	394.0
170°	395.7	395.4	395.0	394.6	394.5	394.6	394.8	394.8	395.0	395.5	395.9
172.5°	397.2	396.7	396.4	396.0	395.8	396.0	396.1	396.3	396.4	396.8	397.3
175°	398.9	398.4	398.0	397.5	397.3	397.5	397.6	397.8	397.9	398.3	398.8
177.5°	399.2	398.9	398.5	398.1	398.1	398.1	398.1	398.1	398.2	398.6	399.0
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331375-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1596.9	1603.5	1603.5	1604.5	1612.0	1611.1	1610.6
5°	1699.3	1709.4	1710.6	1721.3	1728.3	1726.0	1719.5
7.5°	1796.0	1814.7	1828.9	1836.8	1846.2	1852.0	1849.4
10°	1872.7	1899.9	1916.5	1927.7	1941.3	1951.4	1947.9
12.5°	1942.3	1974.7	1997.4	2016.7	2018.5	2031.4	2022.7
15°	2050.8	2085.1	2088.7	2102.8	2114.2	2112.9	2113.5
17.5°	2086.7	2097.7	2099.9	2100.2	2100.4	2096.2	2087.2
20°	2073.9	2069.7	2059.7	2052.0	2038.4	2036.6	2024.8
22.5°	2013.3	2000.2	1975.0	1958.3	1937.1	1931.5	1928.2
25°	1894.0	1865.0	1824.8	1786.3	1775.7	1755.0	1760.9
27.5°	1730.4	1685.2	1641.6	1610.3	1582.1	1551.0	1560.0
30°	1615.3	1564.4	1502.9	1455.5	1425.4	1395.8	1390.4
32.5°	1478.0	1403.5	1334.9	1293.2	1247.0	1228.2	1207.7
35°	1241.4	1168.6	1100.5	1042.0	1008.3	982.2	958.5
37.5°	1028.5	944.7	889.7	842.3	818.0	803.1	806.8
40°	896.4	823.0	782.8	746.7	724.2	713.5	716.0
42.5°	789.4	734.5	701.4	676.6	660.8	654.9	653.4
45°	668.0	637.2	610.0	595.8	588.2	581.7	577.5
47.5°	585.1	560.1	544.7	536.3	529.6	522.9	522.8
50°	535.5	518.9	508.3	499.4	494.1	489.4	493.5
52.5°	497.6	482.5	471.8	463.9	461.9	457.6	457.5
55°	441.4	429.5	421.9	414.7	411.3	408.8	405.9
57.5°	390.3	379.1	371.9	367.5	360.7	358.3	357.4
60°	353.8	344.9	337.9	331.9	329.0	324.2	324.2
62.5°	320.2	311.4	304.7	300.2	295.3	293.5	294.0
65°	271.6	264.5	258.0	253.2	252.1	248.5	249.7
67.5°	226.9	222.1	215.3	212.7	210.4	208.5	207.1
70°	197.1	192.3	188.8	185.2	183.4	183.4	183.4
72.5°	171.9	166.3	164.2	159.6	160.7	158.8	156.9
75°	133.1	129.6	127.8	126.0	123.1	123.1	123.1
77.5°	98.0	96.9	94.8	92.9	92.2	91.6	91.8
80°	75.7	75.2	73.9	73.9	72.8	72.2	71.0
82.5°	58.2	56.7	56.0	55.5	55.3	55.1	54.9
85°	33.2	31.9	31.9	32.5	31.4	31.4	31.9
87.5°	14.1	14.2	13.7	13.8	14.3	13.8	13.8
90°	6.7	7.0	7.3	7.4	7.5	7.7	7.8
92.5°	7.2	7.3	7.5	7.6	7.7	7.7	7.8
95°	12.2	12.5	12.7	12.6	12.5	12.5	12.4
97.5°	15.8	16.1	16.2	16.3	16.4	16.5	16.6
100°	18.0	18.5	18.8	18.9	19.1	19.2	19.4
102.5°	18.9	19.5	20.0	20.2	20.3	20.5	20.7
105°	19.7	20.4	20.9	21.1	21.4	21.7	21.9
107.5°	22.5	21.8	21.5	21.8	22.0	22.3	22.6
110°	31.2	24.8	21.8	22.0	22.3	22.6	22.7



TEST NUMBER: P331375-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	57.2	33.8	22.2	22.4	22.6	22.8	23.0
115°	88.9	59.2	42.1	37.5	32.9	28.3	23.6
117.5°	175.5	168.4	157.2	142.0	126.9	111.7	96.6
120°	213.7	214.4	210.4	201.8	193.1	184.5	175.8
122.5°	226.3	226.8	226.1	224.5	222.8	221.1	219.5
125°	245.0	245.4	245.8	245.9	246.1	246.3	246.5
127.5°	262.4	263.1	263.4	263.5	263.5	263.5	263.6
130°	273.4	274.1	274.5	274.4	274.3	274.3	274.2
132.5°	283.9	284.5	284.8	284.7	284.7	284.6	284.5
135°	299.2	299.8	300.1	300.0	299.8	299.7	299.5
137.5°	313.3	313.9	314.1	313.9	313.7	313.4	313.3
140°	322.4	322.9	323.1	322.7	322.4	322.1	321.7
142.5°	330.7	331.3	331.4	331.0	330.7	330.4	330.0
145°	342.4	342.9	343.0	342.6	342.3	342.0	341.6
147.5°	352.6	352.9	352.9	352.7	352.4	352.1	351.9
150°	358.9	359.4	359.4	359.1	358.7	358.4	358.1
152.5°	364.7	365.1	365.1	364.6	364.3	363.8	363.4
155°	372.5	372.9	372.8	372.3	371.8	371.3	370.8
157.5°	379.2	379.5	379.5	379.0	378.5	378.0	377.6
160°	382.9	383.3	383.3	382.8	382.4	381.9	381.5
162.5°	386.5	386.9	386.9	386.3	385.8	385.2	384.7
165°	390.8	391.3	391.3	390.8	390.4	389.9	389.5
167.5°	394.5	394.9	394.8	394.3	393.7	393.2	392.5
170°	396.4	396.8	396.7	396.2	395.6	395.0	394.4
172.5°	397.7	398.1	398.1	397.5	397.0	396.4	395.8
175°	399.2	399.7	399.6	399.0	398.3	397.6	397.0
177.5°	399.3	399.7	399.6	399.1	398.7	398.2	397.8
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4

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