

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: P331705-940

Luminaire Tested: **SA2XXRDIP-C865D330U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331705-940  
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: SA2XXRDIP-C865D330U940-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 330 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

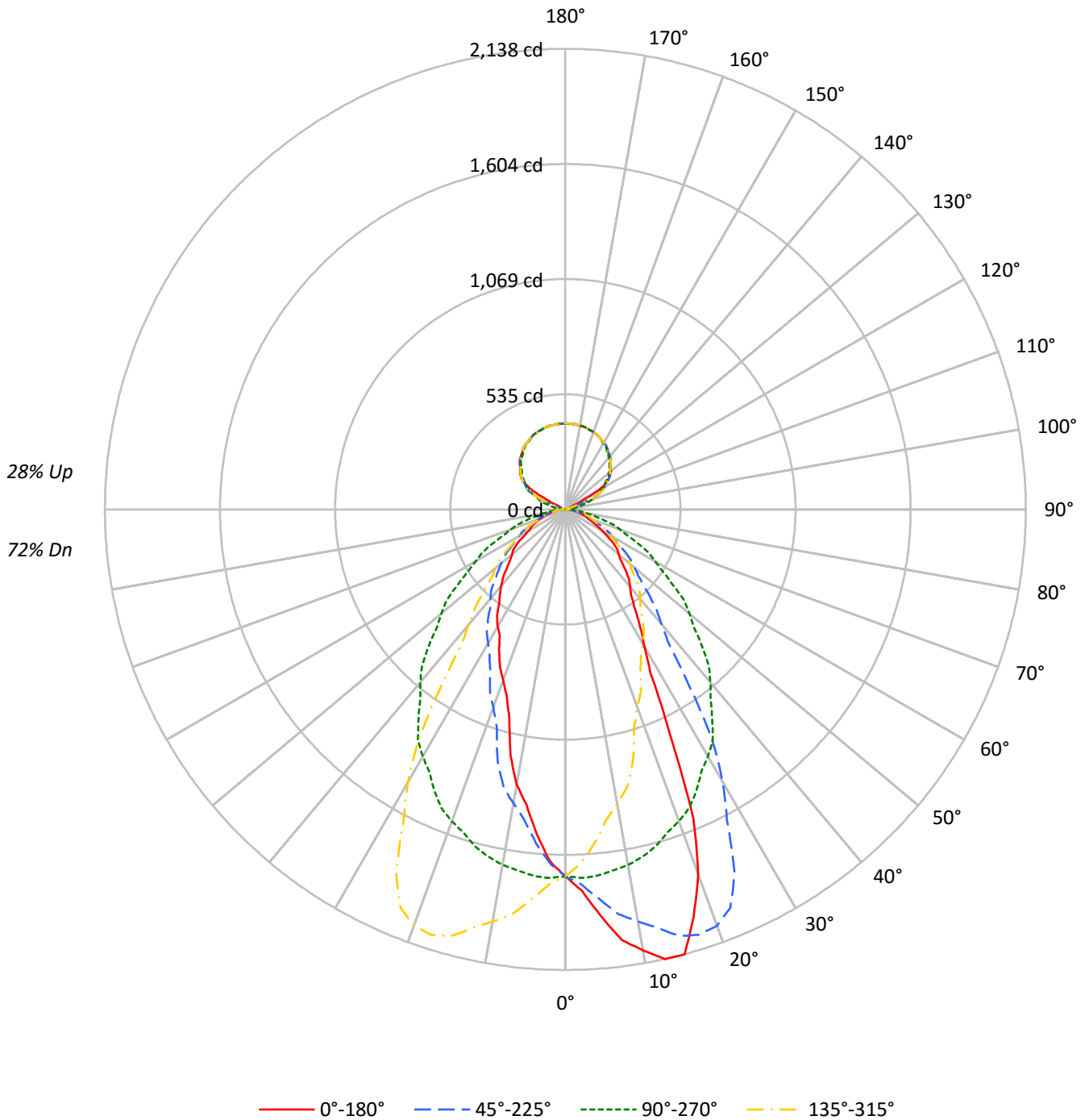
Lumens per Lamp: N/A  
Luminaire Lumens: 4111.5 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	72	
1	104	100	96	93	98	95	92	89	85	83	81	77	75	73	69	68	66	66	66	66	63	
2	95	88	83	78	90	84	79	75	76	72	69	69	66	63	62	60	58	58	58	58	54	
3	88	79	72	66	83	75	69	64	68	63	59	62	58	55	56	53	51	51	51	51	47	
4	81	71	63	57	77	68	61	56	62	56	52	56	52	48	51	48	45	45	45	45	42	
5	75	64	56	50	71	61	54	49	56	50	46	51	46	43	47	43	40	40	40	40	37	
6	70	58	50	45	66	56	49	43	51	45	41	47	42	38	43	39	36	36	36	36	33	
7	65	53	45	40	62	51	44	39	47	41	37	43	38	35	40	36	32	32	32	32	30	
8	61	49	41	36	58	47	40	35	43	37	33	40	35	31	37	33	30	30	30	30	28	
9	57	45	38	33	54	43	37	32	40	34	30	37	32	29	34	30	27	27	27	27	25	
10	53	42	35	30	51	40	34	29	37	32	28	35	30	26	32	28	25	25	25	25	23	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	27493	27493	27493	27493
5°	30705	27665	24530	27665
10°	34067	27471	21263	27471
15°	35741	27067	16754	27067
20°	30986	26472	14496	26472
25°	20322	25655	12944	25655
30°	13679	24664	11714	24664
35°	11077	23416	10565	23416
40°	9851	22059	9778	22059
45°	8917	20466	8727	20466
50°	8116	18889	8083	18889
55°	7628	17140	7527	17140
60°	6381	15532	6307	15532
65°	5379	14105	6101	14105
70°	4971	12595	5755	12595
75°	4648	10967	5315	10967
80°	4296	9019	4733	9019
85°	3946	7114	4168	7114



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.4	3.9
10°-20°	449.8	10.9
20°-30°	579.6	14.1
30°-40°	550.8	13.4
40°-50°	471.8	11.5
50°-60°	359.3	8.7
60°-70°	227.1	5.5
70°-80°	113.4	2.8
80°-90°	30.5	0.7
90°-100°	13.3	0.3
100°-110°	48.7	1.2
110°-120°	130.3	3.2
120°-130°	215.1	5.2
130°-140°	228.7	5.6
140°-150°	212.6	5.2
150°-160°	170.9	4.2
160°-170°	110.1	2.7
170°-180°	37.9	0.9
0°-30°	1190.8	29.0
0°-40°	1741.6	42.4
0°-60°	2572.7	62.6
0°-90°	2943.8	71.6
90°-120°	192.3	4.7
90°-150°	848.7	20.6
90°-180°	1168.0	28.4
0°-180°	4111.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1703	1703	1703	1703	1703	
5°	1894	1707	1514	1707	1894	187
15°	2138	1619	1002	1619	2138	577
25°	1141	1440	727	1440	1141	541
35°	562	1188	536	1188	562	360
45°	390	896	382	896	390	302
55°	271	609	267	609	271	238
65°	141	369	160	369	141	143
75°	74	176	85	176	74	79
85°	21	38	22	38	21	23
90°	8	0	8	0	8	4
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1771.9	1773.3	1774.8	1771.4	1771.4	1768.6	1762.5	1757.7	1744.5	1742.6	1742.6
5°	1894.5	1893.3	1895.7	1888.0	1877.3	1875.0	1863.8	1849.0	1833.5	1816.4	1812.8
7.5°	2016.3	2014.6	2009.8	2008.6	2000.4	1982.5	1964.4	1945.2	1919.6	1894.6	1882.0
10°	2077.9	2097.4	2085.6	2064.8	2069.0	2041.2	2026.4	2001.0	1979.7	1942.4	1934.1
12.5°	2138.5	2146.2	2142.4	2130.7	2125.4	2106.0	2086.1	2064.0	2024.6	1991.2	1962.0
15°	2138.2	2149.5	2152.4	2148.9	2151.9	2150.7	2140.0	2121.6	2087.4	2050.7	2018.7
17.5°	1980.4	1988.2	2007.6	2020.7	2037.3	2072.3	2089.6	2096.3	2091.2	2070.3	2047.8
20°	1803.4	1790.4	1844.8	1872.6	1896.2	1955.4	2006.3	2025.9	2057.2	2056.6	2050.7
22.5°	1552.5	1555.6	1607.2	1640.2	1709.3	1768.4	1826.5	1900.0	1960.6	2000.7	2024.2
25°	1140.7	1163.2	1214.7	1259.6	1336.6	1446.6	1546.6	1662.6	1772.0	1858.4	1940.6
27.5°	856.8	858.4	899.2	940.8	986.4	1076.6	1202.5	1341.0	1497.0	1625.8	1773.9
30°	733.7	730.1	747.3	772.7	811.7	881.5	976.2	1112.3	1267.9	1462.0	1634.8
32.5°	646.6	646.8	659.7	678.5	711.0	758.0	822.9	933.4	1080.5	1271.2	1473.8
35°	562.0	561.5	571.0	584.5	598.2	628.3	672.7	730.7	831.9	1010.0	1217.0
37.5°	501.5	504.1	508.7	517.2	532.3	549.0	575.7	614.7	686.7	792.0	966.1
40°	467.4	468.6	475.1	482.2	491.1	504.1	526.0	557.3	610.0	694.0	821.2
42.5°	436.1	437.4	441.9	448.6	455.6	468.6	486.7	513.8	556.5	622.1	727.0
45°	390.5	390.5	394.7	397.6	405.3	417.1	431.9	454.4	483.9	532.5	602.4
47.5°	347.7	347.8	350.5	355.6	360.4	369.7	384.2	402.6	424.1	461.6	521.3
50°	323.1	323.6	325.4	329.6	332.5	340.8	352.0	368.0	390.5	419.5	469.2
52.5°	303.2	302.8	305.1	306.8	308.9	314.8	323.2	337.2	357.4	382.5	423.7
55°	271.0	268.6	272.2	275.1	276.9	279.3	284.0	292.8	310.0	331.4	362.1
57.5°	230.8	229.8	232.3	235.0	240.6	246.9	251.0	256.6	265.6	280.8	311.3
60°	197.6	197.6	203.0	204.7	211.2	219.5	227.8	232.6	241.4	251.5	273.9
62.5°	168.3	168.7	171.2	173.0	176.6	186.8	198.4	208.8	217.2	226.9	241.7
65°	140.8	142.0	142.0	143.2	145.5	147.9	152.7	161.0	175.8	189.3	200.5
67.5°	119.5	119.8	120.2	121.5	122.0	124.6	126.5	130.2	133.6	146.5	160.4
70°	105.3	107.1	106.5	107.7	108.3	109.4	111.8	113.6	119.0	121.9	130.2
72.5°	92.0	93.4	93.3	94.0	95.5	95.8	97.6	99.4	102.8	105.3	109.8
75°	74.5	73.9	74.5	75.7	76.3	77.0	77.0	79.3	81.1	83.5	86.4
77.5°	57.5	58.1	58.0	58.1	58.2	59.3	59.2	60.2	62.0	63.2	64.6
80°	46.2	46.7	46.2	46.7	47.3	47.9	47.3	47.9	49.7	50.9	50.9
82.5°	35.8	35.8	36.2	36.3	36.5	36.6	37.4	37.5	38.8	38.6	39.1
85°	21.3	20.7	20.7	20.7	21.3	21.8	21.3	21.3	21.8	21.8	21.8
87.5°	9.1	9.5	9.5	9.5	9.5	9.5	9.4	9.8	9.3	9.6	9.1
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



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**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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1743.5	1739.7	1736.4	1727.9	1723.6	1714.1	1712.7	1712.3	1700.0	1688.1	1684.8
5°	1803.4	1793.9	1779.7	1763.2	1746.0	1728.2	1716.4	1706.9	1683.3	1660.8	1647.8
7.5°	1863.8	1843.3	1818.9	1787.5	1761.4	1732.1	1710.2	1690.7	1657.2	1625.0	1603.3
10°	1908.7	1875.5	1843.0	1799.8	1766.1	1733.0	1702.2	1675.6	1637.7	1595.1	1565.0
12.5°	1936.6	1900.1	1855.3	1813.1	1769.4	1727.2	1686.1	1651.9	1607.4	1563.4	1527.5
15°	1974.3	1935.3	1880.9	1820.5	1764.3	1709.3	1662.0	1619.3	1561.4	1508.7	1464.9
17.5°	2005.3	1951.5	1893.1	1823.3	1758.2	1688.3	1627.3	1572.9	1508.3	1444.8	1393.2
20°	2015.2	1961.9	1894.5	1824.7	1747.8	1665.5	1599.8	1540.7	1471.4	1402.2	1343.1
22.5°	2009.0	1967.6	1892.6	1809.0	1730.3	1644.2	1570.0	1501.4	1424.6	1354.0	1285.3
25°	1967.3	1953.0	1882.0	1790.9	1701.0	1601.1	1515.2	1440.1	1352.5	1276.8	1202.2
27.5°	1869.9	1900.5	1856.5	1759.4	1659.5	1552.3	1455.8	1370.3	1279.4	1194.2	1119.9
30°	1776.2	1846.6	1827.7	1737.7	1625.9	1520.5	1412.3	1322.9	1225.9	1138.4	1065.0
32.5°	1647.9	1764.2	1782.7	1707.4	1591.8	1476.0	1362.6	1273.7	1172.4	1080.1	1008.6
35°	1443.7	1617.6	1697.5	1649.6	1533.6	1408.7	1291.6	1188.0	1086.3	995.1	924.2
37.5°	1200.0	1436.9	1570.0	1573.4	1467.0	1337.1	1209.6	1106.8	1002.6	913.2	836.3
40°	1041.9	1298.7	1472.0	1510.5	1420.6	1280.3	1151.4	1046.6	944.9	857.3	769.2
42.5°	899.9	1155.7	1368.9	1435.7	1364.2	1224.9	1095.6	986.1	887.2	804.3	714.3
45°	727.7	951.4	1186.2	1305.8	1266.1	1137.2	1000.5	896.3	803.4	731.9	645.5
47.5°	613.9	771.5	998.8	1160.5	1159.8	1042.1	907.6	807.9	721.7	654.6	584.7
50°	549.0	686.3	878.6	1062.0	1077.4	978.6	850.8	752.0	671.5	601.1	544.9
52.5°	490.8	604.0	776.9	952.7	996.5	910.9	786.9	695.7	617.6	552.9	504.7
55°	414.7	502.3	633.6	798.2	864.4	804.1	694.0	608.9	545.5	491.1	449.7
57.5°	350.9	416.5	521.9	654.3	731.6	693.6	602.8	533.6	479.4	430.2	397.4
60°	310.6	364.4	453.8	564.5	649.6	623.0	545.5	481.0	434.9	392.3	361.5
62.5°	272.8	319.1	395.6	485.4	563.5	552.5	489.2	435.1	394.7	355.8	329.8
65°	219.5	253.2	313.0	383.4	446.1	451.5	405.9	369.2	333.1	302.4	279.3
67.5°	174.8	196.8	238.9	298.2	345.2	361.9	334.1	306.1	277.5	253.7	233.7
70°	147.3	165.1	195.8	243.8	287.0	304.7	288.7	266.8	242.0	222.5	205.3
72.5°	119.4	136.7	159.3	194.6	231.6	250.7	245.2	229.4	209.3	193.1	176.9
75°	90.0	95.2	110.7	134.3	163.3	179.9	184.0	175.8	159.7	147.3	137.9
77.5°	66.5	69.7	77.0	89.4	108.4	123.1	129.2	128.2	117.3	110.0	101.2
80°	53.2	55.0	58.6	63.9	78.1	92.9	97.0	97.0	89.3	86.4	77.5
82.5°	40.5	41.7	43.9	46.8	53.5	66.3	71.0	72.0	67.1	63.2	56.2
85°	23.1	22.5	23.6	25.4	26.7	30.1	37.3	38.4	37.3	32.5	30.8
87.5°	9.0	9.4	9.3	8.6	9.0	9.4	11.6	13.8	12.0	10.8	10.0
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: P331705-940

CATALOG NUMBER: SA2XXRDIP-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: P331705-940

CATALOG NUMBER: SA2XXRDIP-C865D330U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1678.6	1675.3	1669.2	1659.7	1654.0	1644.1	1637.4	1641.3	1642.2	1641.3	1640.3
5°	1633.5	1621.1	1604.0	1587.4	1572.0	1555.5	1546.0	1541.9	1533.6	1528.8	1526.5
7.5°	1579.0	1557.6	1533.3	1504.5	1480.0	1454.3	1441.2	1434.7	1417.7	1408.5	1400.4
10°	1538.3	1504.6	1480.3	1442.4	1419.4	1385.6	1362.6	1363.2	1340.1	1327.0	1317.6
12.5°	1493.3	1456.3	1415.9	1381.9	1349.8	1322.7	1294.9	1283.6	1259.2	1246.6	1221.0
15°	1418.8	1375.6	1333.0	1286.8	1254.3	1212.3	1172.1	1122.9	1083.3	1049.0	1039.6
17.5°	1337.4	1283.9	1241.2	1187.0	1131.2	1060.6	1014.0	985.4	961.5	943.4	930.0
20°	1281.6	1227.1	1181.5	1099.9	1024.8	976.9	942.5	920.6	895.8	876.3	865.6
22.5°	1222.8	1166.0	1103.9	1012.8	954.2	915.8	885.2	860.1	843.2	828.0	818.2
25°	1139.5	1077.4	975.1	912.3	865.0	824.7	803.4	788.1	770.3	749.7	740.1
27.5°	1051.5	952.7	879.2	832.6	787.4	761.3	742.1	719.1	703.2	693.9	684.0
30°	985.7	886.9	829.5	778.6	746.6	717.6	695.2	682.2	666.8	650.9	644.4
32.5°	912.3	833.4	778.4	736.0	703.6	678.9	661.1	640.1	628.9	619.1	605.5
35°	821.2	761.4	711.1	676.9	646.1	626.0	605.3	592.8	572.7	564.5	559.1
37.5°	744.0	692.2	654.7	618.5	594.1	571.9	559.2	539.5	530.7	519.2	508.0
40°	700.5	649.6	613.6	584.0	556.8	540.2	524.2	508.3	495.3	489.9	476.3
42.5°	656.0	614.7	578.5	546.1	527.9	510.3	490.2	478.4	464.9	456.3	447.9
45°	594.6	557.9	527.2	500.5	480.5	462.1	449.1	429.5	421.9	404.7	397.6
47.5°	540.6	506.6	477.2	451.9	432.3	420.4	401.3	386.0	373.7	363.2	354.0
50°	502.3	473.9	445.5	423.0	405.3	388.2	368.6	360.9	342.0	336.6	331.4
52.5°	467.3	440.3	414.3	392.3	374.5	357.8	340.6	330.6	317.8	312.5	308.6
55°	418.3	392.3	367.4	347.9	330.1	313.0	302.4	289.9	284.0	279.8	275.1
57.5°	369.1	345.6	326.6	306.8	289.0	275.4	263.1	255.6	249.4	244.0	238.4
60°	337.9	315.3	298.2	279.8	261.5	250.3	240.8	231.9	224.8	216.5	214.2
62.5°	304.7	285.1	269.3	251.5	235.5	225.2	216.2	207.8	199.3	187.2	183.9
65°	259.1	243.8	227.2	212.4	198.2	188.2	175.1	165.7	162.1	161.0	160.3
67.5°	217.9	203.4	189.2	174.1	161.1	151.9	145.2	143.7	141.2	140.5	138.9
70°	190.5	176.9	162.7	148.5	136.1	134.3	132.0	129.6	126.6	125.5	124.2
72.5°	165.9	151.9	137.6	126.3	120.9	118.7	116.3	114.0	111.9	110.8	110.0
75°	127.2	114.2	104.7	100.6	97.6	95.9	92.3	90.5	89.3	87.6	86.9
77.5°	91.6	84.3	79.9	77.3	74.2	72.3	70.3	68.5	67.2	66.9	65.9
80°	69.8	66.3	63.3	59.7	58.6	56.2	55.6	53.9	54.4	52.7	52.7
82.5°	54.2	49.7	47.2	45.6	44.4	42.4	41.9	41.0	41.2	39.9	39.9
85°	27.8	26.7	25.4	24.3	24.3	22.5	23.1	22.5	22.5	21.3	20.7
87.5°	9.6	9.3	8.4	8.6	8.6	8.3	8.3	7.9	7.9	8.0	7.6
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: P331705-940

CATALOG NUMBER: SA2XXRDIP-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: P331705-940

CATALOG NUMBER: SA2XXRDIP-C865D330U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1635.1	1636.0	1634.6	1635.6	1634.6	1636.0	1635.1	1640.3	1641.3	1642.2	1641.3
5°	1523.5	1516.4	1515.2	1513.5	1515.2	1516.4	1523.5	1526.5	1528.8	1533.6	1541.9
7.5°	1390.3	1389.2	1386.3	1382.2	1386.3	1389.2	1390.3	1400.4	1408.5	1417.7	1434.7
10°	1304.6	1301.6	1301.1	1296.9	1301.1	1301.6	1304.6	1317.6	1327.0	1340.1	1363.2
12.5°	1204.3	1185.2	1183.2	1172.9	1183.2	1185.2	1204.3	1221.0	1246.6	1259.2	1283.6
15°	1025.4	1021.8	1010.0	1002.3	1010.0	1021.8	1025.4	1039.6	1049.0	1083.3	1122.9
17.5°	923.1	911.5	907.9	906.2	907.9	911.5	923.1	930.0	943.4	961.5	985.4
20°	857.3	846.7	844.9	843.7	844.9	846.7	857.3	865.6	876.3	895.8	920.6
22.5°	811.9	800.8	796.1	792.6	796.1	800.8	811.9	818.2	828.0	843.2	860.1
25°	734.2	730.1	727.7	726.6	727.7	730.1	734.2	740.1	749.7	770.3	788.1
27.5°	673.5	664.4	662.6	659.6	662.6	664.4	673.5	684.0	693.9	703.2	719.1
30°	639.0	636.1	631.9	628.3	631.9	636.1	639.0	644.4	650.9	666.8	682.2
32.5°	598.2	595.8	592.1	590.5	592.1	595.8	598.2	605.5	619.1	628.9	640.1
35°	553.2	544.9	541.4	536.0	541.4	544.9	553.2	559.1	564.5	572.7	592.8
37.5°	505.5	501.1	496.1	497.9	496.1	501.1	505.5	508.0	519.2	530.7	539.5
40°	468.6	465.7	464.5	463.9	464.5	465.7	468.6	476.3	489.9	495.3	508.3
42.5°	439.3	431.1	428.0	427.8	428.0	431.1	439.3	447.9	456.3	464.9	478.4
45°	394.7	386.9	381.7	382.2	381.7	386.9	394.7	397.6	404.7	421.9	429.5
47.5°	348.9	348.7	345.4	346.5	345.4	348.7	348.9	354.0	363.2	373.7	386.0
50°	327.2	323.6	321.3	321.8	321.3	323.6	327.2	331.4	336.6	342.0	360.9
52.5°	306.4	303.3	301.4	303.9	301.4	303.3	306.4	308.6	312.5	317.8	330.6
55°	272.2	268.6	268.0	267.4	268.0	268.6	272.2	275.1	279.8	284.0	289.9
57.5°	234.0	231.6	228.0	226.5	228.0	231.6	234.0	238.4	244.0	249.4	255.6
60°	206.5	201.8	195.8	195.3	195.8	201.8	206.5	214.2	216.5	224.8	231.9
62.5°	181.4	180.5	179.2	179.1	179.2	180.5	181.4	183.9	187.2	199.3	207.8
65°	159.2	158.5	159.2	159.7	159.2	158.5	159.2	160.3	161.0	162.1	165.7
67.5°	138.7	137.6	136.5	137.1	136.5	137.6	138.7	138.9	140.5	141.2	143.7
70°	123.1	122.4	121.9	121.9	121.9	122.4	123.1	124.2	125.5	126.6	129.6
72.5°	107.9	107.8	107.2	106.7	107.2	107.8	107.9	110.0	110.8	111.9	114.0
75°	86.4	85.2	85.2	85.2	85.2	85.2	86.4	86.9	87.6	89.3	90.5
77.5°	65.8	65.2	64.6	64.1	64.6	65.2	65.8	65.9	66.9	67.2	68.5
80°	52.1	51.5	50.9	50.9	50.9	51.5	52.1	52.7	52.7	54.4	53.9
82.5°	39.8	39.1	39.1	38.6	39.1	39.1	39.8	39.9	39.9	41.2	41.0
85°	21.3	21.8	21.3	22.5	21.3	21.8	21.3	20.7	21.3	22.5	22.5
87.5°	7.7	7.2	7.7	7.2	7.7	7.2	7.7	7.6	8.0	7.9	7.9
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: P331705-940

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**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: P331705-940

CATALOG NUMBER: SA2XXRDIP-C865D330U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1637.4	1644.1	1654.0	1659.7	1669.2	1675.3	1678.6	1684.8	1688.1	1700.0	1712.3
5°	1546.0	1555.5	1572.0	1587.4	1604.0	1621.1	1633.5	1647.8	1660.8	1683.3	1706.9
7.5°	1441.2	1454.3	1480.0	1504.5	1533.3	1557.6	1579.0	1603.3	1625.0	1657.2	1690.7
10°	1362.6	1385.6	1419.4	1442.4	1480.3	1504.6	1538.3	1565.0	1595.1	1637.7	1675.6
12.5°	1294.9	1322.7	1349.8	1381.9	1415.9	1456.3	1493.3	1527.5	1563.4	1607.4	1651.9
15°	1172.1	1212.3	1254.3	1286.8	1333.0	1375.6	1418.8	1464.9	1508.7	1561.4	1619.3
17.5°	1014.0	1060.6	1131.2	1187.0	1241.2	1283.9	1337.4	1393.2	1444.8	1508.3	1572.9
20°	942.5	976.9	1024.8	1099.9	1181.5	1227.1	1281.6	1343.1	1402.2	1471.4	1540.7
22.5°	885.2	915.8	954.2	1012.8	1103.9	1166.0	1222.8	1285.3	1354.0	1424.6	1501.4
25°	803.4	824.7	865.0	912.3	975.1	1077.4	1139.5	1202.2	1276.8	1352.5	1440.1
27.5°	742.1	761.3	787.4	832.6	879.2	952.7	1051.5	1119.9	1194.2	1279.4	1370.3
30°	695.2	717.6	746.6	778.6	829.5	886.9	985.7	1065.0	1138.4	1225.9	1322.9
32.5°	661.1	678.9	703.6	736.0	778.4	833.4	912.3	1008.6	1080.1	1172.4	1273.7
35°	605.3	626.0	646.1	676.9	711.1	761.4	821.2	924.2	995.1	1086.3	1188.0
37.5°	559.2	571.9	594.1	618.5	654.7	692.2	744.0	836.3	913.2	1002.6	1106.8
40°	524.2	540.2	556.8	584.0	613.6	649.6	700.5	769.2	857.3	944.9	1046.6
42.5°	490.2	510.3	527.9	546.1	578.5	614.7	656.0	714.3	804.3	887.2	986.1
45°	449.1	462.1	480.5	500.5	527.2	557.9	594.6	645.5	731.9	803.4	896.3
47.5°	401.3	420.4	432.3	451.9	477.2	506.6	540.6	584.7	654.6	721.7	807.9
50°	368.6	388.2	405.3	423.0	445.5	473.9	502.3	544.9	601.1	671.5	752.0
52.5°	340.6	357.8	374.5	392.3	414.3	440.3	467.3	504.7	552.9	617.6	695.7
55°	302.4	313.0	330.1	347.9	367.4	392.3	418.3	449.7	491.1	545.5	608.9
57.5°	263.1	275.4	289.0	306.8	326.6	345.6	369.1	397.4	430.2	479.4	533.6
60°	240.8	250.3	261.5	279.8	298.2	315.3	337.9	361.5	392.3	434.9	481.0
62.5°	216.2	225.2	235.5	251.5	269.3	285.1	304.7	329.8	355.8	394.7	435.1
65°	175.1	188.2	198.2	212.4	227.2	243.8	259.1	279.3	302.4	333.1	369.2
67.5°	145.2	151.9	161.1	174.1	189.2	203.4	217.9	233.7	253.7	277.5	306.1
70°	132.0	134.3	136.1	148.5	162.7	176.9	190.5	205.3	222.5	242.0	266.8
72.5°	116.3	118.7	120.9	126.3	137.6	151.9	165.9	176.9	193.1	209.3	229.4
75°	92.3	95.9	97.6	100.6	104.7	114.2	127.2	137.9	147.3	159.7	175.8
77.5°	70.3	72.3	74.2	77.3	79.9	84.3	91.6	101.2	110.0	117.3	128.2
80°	55.6	56.2	58.6	59.7	63.3	66.3	69.8	77.5	86.4	89.3	97.0
82.5°	41.9	42.4	44.4	45.6	47.2	49.7	54.2	56.2	63.2	67.1	72.0
85°	23.1	22.5	24.3	24.3	25.4	26.7	27.8	30.8	32.5	37.3	38.4
87.5°	8.3	8.3	8.6	8.6	8.4	9.3	9.6	10.0	10.8	12.0	13.8
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: P331705-940

CATALOG NUMBER: SA2XXRDIP-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: P331705-940

CATALOG NUMBER: SA2XXRDIP-C865D330U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1712.7	1714.1	1723.6	1727.9	1736.4	1739.7	1743.5	1742.6	1742.6	1744.5	1757.7
5°	1716.4	1728.2	1746.0	1763.2	1779.7	1793.9	1803.4	1812.8	1816.4	1833.5	1849.0
7.5°	1710.2	1732.1	1761.4	1787.5	1818.9	1843.3	1863.8	1882.0	1894.6	1919.6	1945.2
10°	1702.2	1733.0	1766.1	1799.8	1843.0	1875.5	1908.7	1934.1	1942.4	1979.7	2001.0
12.5°	1686.1	1727.2	1769.4	1813.1	1855.3	1900.1	1936.6	1962.0	1991.2	2024.6	2064.0
15°	1662.0	1709.3	1764.3	1820.5	1880.9	1935.3	1974.3	2018.7	2050.7	2087.4	2121.6
17.5°	1627.3	1688.3	1758.2	1823.3	1893.1	1951.5	2005.3	2047.8	2070.3	2091.2	2096.3
20°	1599.8	1665.5	1747.8	1824.7	1894.5	1961.9	2015.2	2050.7	2056.6	2057.2	2025.9
22.5°	1570.0	1644.2	1730.3	1809.0	1892.6	1967.6	2009.0	2024.2	2000.7	1960.6	1900.0
25°	1515.2	1601.1	1701.0	1790.9	1882.0	1953.0	1967.3	1940.6	1858.4	1772.0	1662.6
27.5°	1455.8	1552.3	1659.5	1759.4	1856.5	1900.5	1869.9	1773.9	1625.8	1497.0	1341.0
30°	1412.3	1520.5	1625.9	1737.7	1827.7	1846.6	1776.2	1634.8	1462.0	1267.9	1112.3
32.5°	1362.6	1476.0	1591.8	1707.4	1782.7	1764.2	1647.9	1473.8	1271.2	1080.5	933.4
35°	1291.6	1408.7	1533.6	1649.6	1697.5	1617.6	1443.7	1217.0	1010.0	831.9	730.7
37.5°	1209.6	1337.1	1467.0	1573.4	1570.0	1436.9	1200.0	966.1	792.0	686.7	614.7
40°	1151.4	1280.3	1420.6	1510.5	1472.0	1298.7	1041.9	821.2	694.0	610.0	557.3
42.5°	1095.6	1224.9	1364.2	1435.7	1368.9	1155.7	899.9	727.0	622.1	556.5	513.8
45°	1000.5	1137.2	1266.1	1305.8	1186.2	951.4	727.7	602.4	532.5	483.9	454.4
47.5°	907.6	1042.1	1159.8	1160.5	998.8	771.5	613.9	521.3	461.6	424.1	402.6
50°	850.8	978.6	1077.4	1062.0	878.6	686.3	549.0	469.2	419.5	390.5	368.0
52.5°	786.9	910.9	996.5	952.7	776.9	604.0	490.8	423.7	382.5	357.4	337.2
55°	694.0	804.1	864.4	798.2	633.6	502.3	414.7	362.1	331.4	310.0	292.8
57.5°	602.8	693.6	731.6	654.3	521.9	416.5	350.9	311.3	280.8	265.6	256.6
60°	545.5	623.0	649.6	564.5	453.8	364.4	310.6	273.9	251.5	241.4	232.6
62.5°	489.2	552.5	563.5	485.4	395.6	319.1	272.8	241.7	226.9	217.2	208.8
65°	405.9	451.5	446.1	383.4	313.0	253.2	219.5	200.5	189.3	175.8	161.0
67.5°	334.1	361.9	345.2	298.2	238.9	196.8	174.8	160.4	146.5	133.6	130.2
70°	288.7	304.7	287.0	243.8	195.8	165.1	147.3	130.2	121.9	119.0	113.6
72.5°	245.2	250.7	231.6	194.6	159.3	136.7	119.4	109.8	105.3	102.8	99.4
75°	184.0	179.9	163.3	134.3	110.7	95.2	90.0	86.4	83.5	81.1	79.3
77.5°	129.2	123.1	108.4	89.4	77.0	69.7	66.5	64.6	63.2	62.0	60.2
80°	97.0	92.9	78.1	63.9	58.6	55.0	53.2	50.9	50.9	49.7	47.9
82.5°	71.0	66.3	53.5	46.8	43.9	41.7	40.5	39.1	38.6	38.8	37.5
85°	37.3	30.1	26.7	25.4	23.6	22.5	23.1	21.8	21.8	21.8	21.3
87.5°	11.6	9.4	9.0	8.6	9.3	9.4	9.0	9.1	9.6	9.3	9.8
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





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**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



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1762.5	1768.6	1771.4	1771.4	1774.8	1773.3	1771.9
5°	1863.8	1875.0	1877.3	1888.0	1895.7	1893.3	1894.5
7.5°	1964.4	1982.5	2000.4	2008.6	2009.8	2014.6	2016.3
10°	2026.4	2041.2	2069.0	2064.8	2085.6	2097.4	2077.9
12.5°	2086.1	2106.0	2125.4	2130.7	2142.4	2146.2	2138.5
15°	2140.0	2150.7	2151.9	2148.9	2152.4	2149.5	2138.2
17.5°	2089.6	2072.3	2037.3	2020.7	2007.6	1988.2	1980.4
20°	2006.3	1955.4	1896.2	1872.6	1844.8	1790.4	1803.4
22.5°	1826.5	1768.4	1709.3	1640.2	1607.2	1555.6	1552.5
25°	1546.6	1446.6	1336.6	1259.6	1214.7	1163.2	1140.7
27.5°	1202.5	1076.6	986.4	940.8	899.2	858.4	856.8
30°	976.2	881.5	811.7	772.7	747.3	730.1	733.7
32.5°	822.9	758.0	711.0	678.5	659.7	646.8	646.6
35°	672.7	628.3	598.2	584.5	571.0	561.5	562.0
37.5°	575.7	549.0	532.3	517.2	508.7	504.1	501.5
40°	526.0	504.1	491.1	482.2	475.1	468.6	467.4
42.5°	486.7	468.6	455.6	448.6	441.9	437.4	436.1
45°	431.9	417.1	405.3	397.6	394.7	390.5	390.5
47.5°	384.2	369.7	360.4	355.6	350.5	347.8	347.7
50°	352.0	340.8	332.5	329.6	325.4	323.6	323.1
52.5°	323.2	314.8	308.9	306.8	305.1	302.8	303.2
55°	284.0	279.3	276.9	275.1	272.2	268.6	271.0
57.5°	251.0	246.9	240.6	235.0	232.3	229.8	230.8
60°	227.8	219.5	211.2	204.7	203.0	197.6	197.6
62.5°	198.4	186.8	176.6	173.0	171.2	168.7	168.3
65°	152.7	147.9	145.5	143.2	142.0	142.0	140.8
67.5°	126.5	124.6	122.0	121.5	120.2	119.8	119.5
70°	111.8	109.4	108.3	107.7	106.5	107.1	105.3
72.5°	97.6	95.8	95.5	94.0	93.3	93.4	92.0
75°	77.0	77.0	76.3	75.7	74.5	73.9	74.5
77.5°	59.2	59.3	58.2	58.1	58.0	58.1	57.5
80°	47.3	47.9	47.3	46.7	46.2	46.7	46.2
82.5°	37.4	36.6	36.5	36.3	36.2	35.8	35.8
85°	21.3	21.8	21.3	20.7	20.7	20.7	21.3
87.5°	9.4	9.5	9.5	9.5	9.5	9.5	9.1
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



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**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

(END OF REPORT)