

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: P331429-930

Luminaire Tested: **SA2XXDIP-C1005D530U930-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331429-930  
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-C1005D530U930-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 530 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

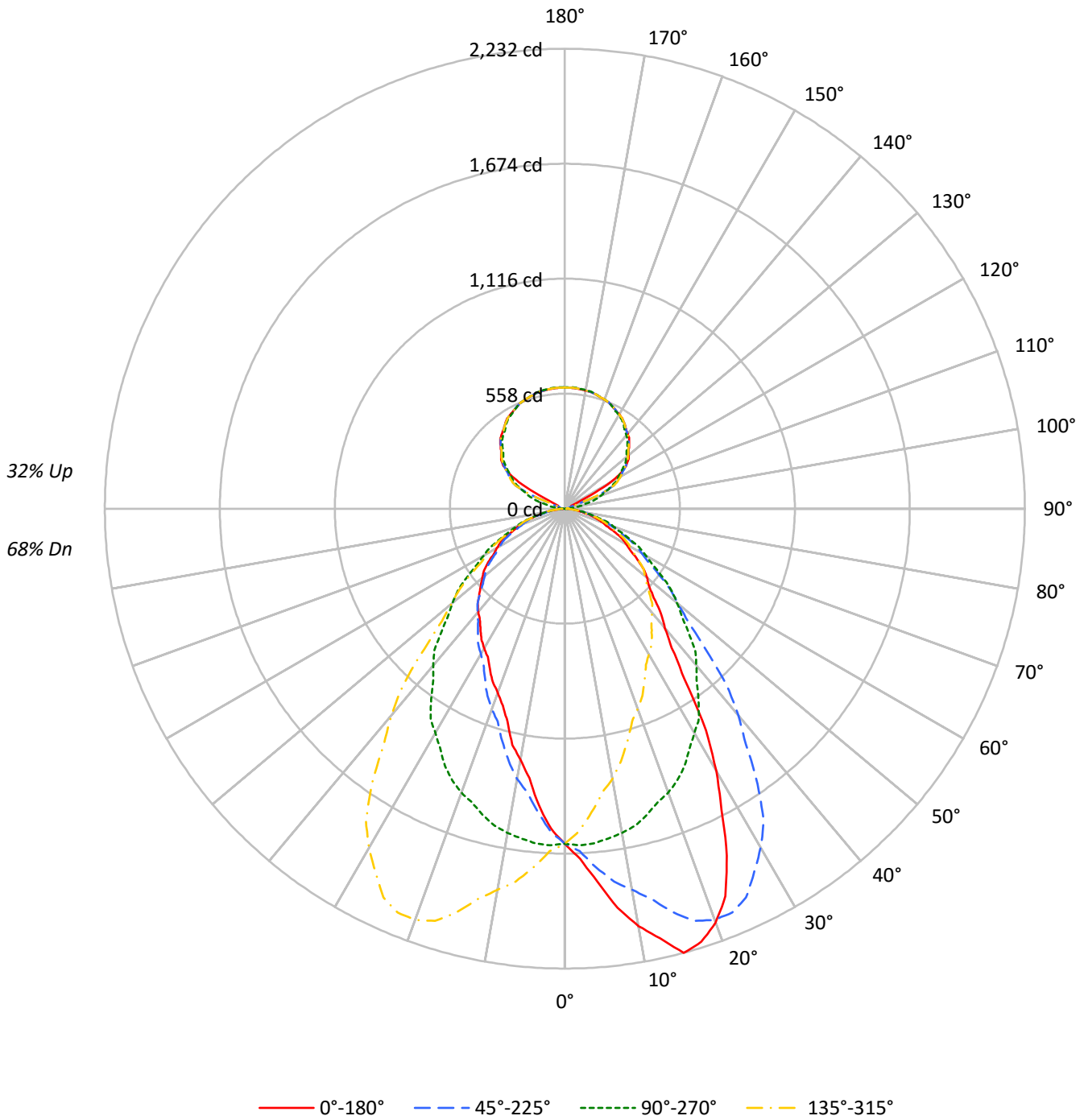
Lumens per Lamp: N/A  
Luminaire Lumens: 5311.4 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 55.1  
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				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	50	30	10	
RCR																								
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68	68	68	68	68		
1	102	98	94	91	96	93	90	87	83	80	78	73	72	70	65	64	62	58	56	53	50	48		
2	94	87	81	75	88	82	77	72	73	69	66	65	62	59	58	56	53	50	48	46	43	41		
3	86	77	69	64	81	73	66	61	65	60	56	58	54	51	52	49	46	43	41	38	35	33		
4	79	68	61	55	74	65	58	53	58	53	48	52	48	44	47	43	40	37	34	31	28	26		
5	73	61	53	47	69	58	51	46	53	47	42	47	43	39	43	39	36	33	30	27	24	22		
6	67	55	47	42	64	53	46	40	48	42	37	43	38	35	39	35	32	29	26	23	20	18		
7	63	50	42	37	59	48	41	36	44	38	33	40	35	31	36	32	29	26	23	20	17	15		
8	58	46	38	33	55	44	37	32	40	34	30	36	31	28	33	29	26	24	21	18	15	13		
9	55	42	35	30	52	40	34	29	37	31	27	34	29	25	31	26	24	22	19	16	13	11		
10	51	39	32	27	48	37	31	26	34	29	25	31	26	23	28	24	22	20	17	14	11	9		

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

	0°	90°	180°	270°
0°	26248	26248	26248	26248
5°	29428	26420	23412	26420
10°	33721	26202	20261	26202
15°	37305	25723	17901	25723
20°	36737	25206	16318	25206
25°	33127	24522	15316	24522
30°	27374	23426	14585	23426
35°	19951	22277	14063	22277
40°	15934	20925	13774	20925
45°	13924	19358	13381	19358
50°	13089	17844	13122	17844
55°	12065	16304	12769	16304
60°	11057	14667	12226	14667
65°	10074	13200	11694	13200
70°	9144	11769	10914	11769
75°	8110	10175	9669	10175
80°	6974	8424	7782	8424
85°	6262	6262	4631	6262



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.8	2.9
10°-20°	450.1	8.5
20°-30°	653.3	12.3
30°-40°	689.3	13.0
40°-50°	610.4	11.5
50°-60°	487.1	9.2
60°-70°	331.1	6.2
70°-80°	169.7	3.2
80°-90°	42.4	0.8
90°-100°	19.6	0.4
100°-110°	71.9	1.4
110°-120°	192.3	3.6
120°-130°	317.4	6.0
130°-140°	337.5	6.4
140°-150°	313.7	5.9
150°-160°	252.2	4.7
160°-170°	162.5	3.1
170°-180°	55.9	1.1
0°-30°	1258.2	23.7
0°-40°	1947.5	36.7
0°-60°	3045.0	57.3
0°-90°	3588.2	67.6
90°-120°	283.8	5.3
90°-150°	1252.5	23.6
90°-180°	1723.0	32.4
0°-180°	5311.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1626	1626	1626	1626	1626	
5°	1816	1630	1444	1630	1816	181
15°	2232	1539	1071	1539	2232	616
25°	1860	1376	860	1376	1860	840
35°	1012	1130	714	1130	1012	658
45°	610	848	586	848	610	480
55°	429	579	454	579	429	384
65°	264	346	306	346	264	262
75°	130	163	155	163	130	139
85°	34	34	25	34	34	37
90°	12	0	12	0	12	7
95°	18	28	18	28	18	17
105°	32	129	32	129	32	34
115°	35	245	35	245	35	87
125°	364	346	364	346	364	315
135°	442	428	442	428	442	341
145°	504	496	504	496	504	315
155°	547	547	547	547	547	252
165°	575	576	575	576	575	162
175°	586	589	586	589	586	56
180°	588	588	588	588	588	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1700.7	1701.2	1702.2	1694.2	1693.2	1693.2	1686.2	1680.3	1673.2	1663.7	1664.8
5°	1815.7	1822.5	1825.0	1817.5	1806.3	1805.1	1794.5	1776.9	1760.7	1747.6	1738.2
7.5°	1952.9	1955.7	1949.5	1939.7	1931.3	1916.3	1896.5	1877.1	1850.1	1825.2	1806.7
10°	2056.8	2060.6	2050.0	2035.6	2023.7	2006.3	1977.5	1948.2	1912.5	1878.2	1850.6
12.5°	2135.8	2145.1	2131.4	2129.6	2109.3	2085.2	2051.0	2036.1	1986.0	1938.1	1908.7
15°	2231.8	2231.1	2232.5	2220.5	2205.5	2201.8	2165.6	2126.2	2055.6	2027.5	1978.7
17.5°	2204.1	2213.5	2217.9	2217.8	2217.5	2215.1	2203.4	2178.6	2143.2	2097.6	2041.3
20°	2138.1	2150.6	2152.5	2166.8	2175.0	2185.6	2190.0	2183.0	2161.2	2123.1	2074.4
22.5°	2036.1	2039.6	2045.5	2067.8	2085.5	2112.1	2126.0	2149.0	2140.7	2122.1	2081.4
25°	1859.5	1853.2	1875.0	1886.3	1926.9	1969.4	2000.0	2033.8	2063.8	2081.9	2070.0
27.5°	1647.2	1637.9	1670.6	1700.5	1733.5	1779.5	1827.2	1883.5	1930.4	1989.0	2009.1
30°	1468.3	1473.9	1505.1	1537.0	1587.0	1652.0	1705.7	1767.6	1834.4	1900.1	1945.6
32.5°	1275.4	1297.0	1316.7	1365.5	1409.6	1482.1	1560.7	1638.1	1721.5	1796.1	1866.7
35°	1012.2	1037.1	1064.7	1100.2	1162.1	1234.0	1310.8	1415.2	1528.9	1630.8	1714.5
37.5°	852.0	848.0	863.7	889.5	939.6	997.6	1086.1	1189.1	1323.0	1442.7	1560.7
40°	756.0	753.5	764.8	788.5	826.6	869.1	946.6	1037.1	1161.5	1307.7	1448.3
42.5°	690.1	691.5	697.8	714.5	740.6	775.6	833.6	910.7	1024.6	1162.3	1313.4
45°	609.8	614.2	621.1	629.2	644.2	672.9	705.4	760.4	850.4	965.3	1114.0
47.5°	552.0	552.2	559.2	566.3	575.2	591.4	617.9	652.4	715.9	809.5	937.3
50°	521.1	516.7	521.7	527.3	536.7	548.0	565.4	597.9	640.4	716.0	822.9
52.5°	483.1	483.2	487.7	489.8	498.2	509.5	525.5	548.0	586.4	645.6	733.4
55°	428.6	431.7	434.2	438.0	445.5	453.6	466.1	481.1	511.1	555.5	620.4
57.5°	377.4	378.4	380.9	388.0	392.7	400.2	412.1	425.7	445.2	478.1	526.9
60°	342.4	342.4	347.4	350.5	356.8	364.3	373.7	386.8	404.2	431.1	470.5
62.5°	310.4	309.9	311.9	317.0	321.8	328.8	338.1	349.3	365.7	389.6	422.0
65°	263.7	262.4	266.2	267.4	272.4	279.3	286.8	298.6	311.8	329.3	358.0
67.5°	218.7	220.2	222.2	224.5	227.3	234.6	239.5	247.9	259.0	273.5	293.0
70°	193.7	193.7	193.7	195.6	199.3	203.1	208.1	214.9	225.6	238.1	255.5
72.5°	165.7	167.7	169.7	168.6	173.3	175.5	181.6	185.5	195.6	203.6	219.1
75°	130.0	130.0	130.0	133.1	134.9	136.8	140.6	144.3	149.4	159.3	167.5
77.5°	96.9	96.7	97.3	98.1	100.1	102.3	103.5	106.8	111.5	116.1	122.9
80°	75.0	76.2	76.9	78.1	78.1	79.3	80.0	84.4	87.5	90.6	95.0
82.5°	58.0	58.2	58.4	58.6	59.1	59.8	61.5	62.9	64.0	66.6	70.0
85°	33.8	33.1	33.1	34.3	33.8	33.8	35.0	36.2	36.2	36.9	38.7
87.5°	15.3	15.2	15.7	15.2	15.2	15.6	15.5	14.9	15.3	15.7	16.1
90°	11.5	11.3	11.1	10.9	10.8	10.4	9.9	9.5	9.0	8.5	7.7
92.5°	11.5	11.4	11.3	11.2	11.0	10.8	10.6	10.4	10.1	9.9	9.5
95°	18.3	18.4	18.5	18.6	18.7	18.5	18.0	17.5	17.0	16.6	15.9
97.5°	24.5	24.3	24.2	24.1	24.0	23.7	23.3	23.0	22.6	22.2	20.7
100°	28.5	28.3	28.1	28.0	27.7	27.3	26.5	25.8	25.0	24.2	22.7
102.5°	30.6	30.2	30.0	29.8	29.5	28.9	27.9	26.9	25.9	24.9	38.4
105°	32.4	32.0	31.6	31.2	30.8	30.1	29.1	28.0	27.0	25.9	51.8
107.5°	33.3	32.9	32.5	32.1	31.8	32.1	33.2	34.2	35.3	36.4	67.3
110°	33.6	33.3	32.9	32.4	32.1	36.6	46.1	55.5	65.0	74.4	101.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	33.9	33.7	33.3	33.0	32.8	49.8	84.3	118.8	153.3	187.8	194.5
115°	34.9	41.7	48.5	55.3	62.1	87.4	131.2	175.0	218.7	262.5	260.2
117.5°	142.4	164.9	187.2	209.5	232.0	248.4	259.0	269.6	280.2	290.7	289.2
120°	259.5	272.3	285.1	297.8	310.6	316.4	315.3	314.1	313.0	311.9	310.1
122.5°	323.8	326.4	328.8	331.3	333.8	334.7	334.0	333.3	332.6	332.0	330.1
125°	363.8	363.5	363.2	363.0	362.6	362.2	361.5	360.9	360.2	359.5	357.8
127.5°	389.0	388.9	388.9	388.8	388.7	388.2	387.3	386.3	385.3	384.4	383.0
130°	404.6	404.7	404.8	404.9	405.0	404.6	403.5	402.4	401.5	400.4	399.3
132.5°	420.0	420.0	420.1	420.2	420.3	420.0	419.1	418.2	417.3	416.4	415.3
135°	442.1	442.3	442.5	442.6	442.9	442.5	441.5	440.6	439.6	438.6	437.8
137.5°	462.3	462.6	462.8	463.2	463.5	463.3	462.3	461.4	460.5	459.5	458.5
140°	474.8	475.3	475.8	476.2	476.7	476.5	475.6	474.8	474.0	473.1	472.1
142.5°	487.1	487.5	488.0	488.5	489.0	488.9	488.0	487.3	486.5	485.8	484.5
145°	504.2	504.7	505.2	505.6	506.1	506.0	505.3	504.7	504.0	503.4	501.7
147.5°	519.3	519.7	520.1	520.5	520.8	520.8	520.3	519.8	519.3	518.9	517.2
150°	528.5	528.9	529.4	529.9	530.4	530.3	529.7	529.1	528.6	528.0	526.5
152.5°	536.3	536.9	537.5	538.2	538.7	538.8	538.3	537.7	537.1	536.5	535.1
155°	547.1	548.0	548.7	549.4	550.2	550.3	549.8	549.2	548.6	548.0	546.9
157.5°	557.1	557.8	558.6	559.3	560.1	560.1	559.5	558.8	558.2	557.6	556.8
160°	562.9	563.5	564.3	564.9	565.6	565.6	565.0	564.4	563.9	563.4	562.8
162.5°	567.7	568.5	569.3	570.1	571.0	571.0	570.4	569.7	569.1	568.4	567.9
165°	574.8	575.5	576.2	576.8	577.5	577.5	576.8	576.2	575.5	574.8	574.5
167.5°	579.4	580.2	581.1	581.9	582.8	582.9	582.2	581.5	580.8	580.2	579.9
170°	582.0	582.9	583.8	584.6	585.5	585.5	584.9	584.2	583.6	582.9	582.7
172.5°	584.1	585.0	585.8	586.7	587.5	587.6	586.9	586.3	585.6	585.0	584.7
175°	585.9	586.9	587.7	588.7	589.7	589.8	589.1	588.5	587.8	587.2	586.9
177.5°	587.0	587.7	588.3	589.1	589.7	589.8	589.3	588.7	588.2	587.7	587.6
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1668.3	1664.3	1661.7	1652.8	1644.7	1636.7	1634.3	1635.2	1624.2	1613.7	1609.2
5°	1733.2	1720.7	1708.9	1692.0	1672.0	1650.1	1638.8	1630.1	1608.3	1584.5	1570.8
7.5°	1791.5	1773.6	1750.7	1719.0	1689.9	1655.5	1633.6	1614.2	1582.3	1548.7	1528.3
10°	1826.9	1802.5	1773.2	1734.5	1698.8	1657.0	1627.6	1598.2	1560.7	1520.8	1495.7
12.5°	1857.4	1824.6	1795.7	1746.0	1703.8	1651.5	1616.7	1575.2	1535.8	1488.2	1463.8
15°	1930.1	1869.4	1814.4	1758.2	1706.3	1633.2	1594.5	1538.9	1487.0	1428.3	1400.2
17.5°	1986.2	1918.0	1831.4	1760.0	1699.5	1618.5	1561.6	1495.0	1433.7	1366.6	1328.4
20°	2018.1	1940.0	1846.9	1761.9	1689.5	1597.0	1535.1	1467.0	1395.2	1319.6	1278.4
22.5°	2037.1	1955.0	1863.0	1754.4	1669.5	1579.5	1501.6	1427.0	1354.2	1272.6	1229.4
25°	2043.1	1968.1	1870.7	1748.2	1644.5	1542.6	1448.9	1376.5	1288.3	1212.1	1149.0
27.5°	2013.4	1959.7	1865.9	1736.4	1615.6	1496.6	1392.0	1309.9	1217.0	1134.2	1070.8
30°	1976.9	1945.6	1854.4	1724.4	1592.6	1464.5	1349.6	1256.5	1164.0	1080.3	1015.3
32.5°	1920.4	1913.7	1833.4	1707.5	1568.1	1424.1	1305.1	1211.0	1108.6	1026.3	964.3
35°	1809.5	1839.4	1788.8	1669.5	1522.0	1366.4	1237.7	1130.2	1024.1	945.3	887.2
37.5°	1660.8	1735.2	1722.0	1613.9	1459.8	1303.7	1161.6	1049.3	948.1	868.6	811.6
40°	1558.3	1653.3	1667.0	1571.4	1415.8	1255.2	1104.6	992.8	894.1	821.7	764.1
42.5°	1448.3	1559.3	1597.0	1520.4	1367.8	1204.3	1053.7	937.8	840.1	769.6	718.7
45°	1264.0	1410.8	1479.0	1435.2	1287.8	1120.3	965.3	847.8	759.1	692.9	653.5
47.5°	1091.7	1252.1	1343.7	1328.2	1198.7	1032.8	879.6	766.9	680.5	627.7	592.5
50°	969.7	1134.7	1245.2	1250.3	1134.7	970.3	816.6	710.4	631.0	581.7	552.9
52.5°	863.7	1021.2	1141.7	1168.2	1063.2	905.3	760.1	654.4	584.6	539.2	513.5
55°	725.4	858.5	992.2	1040.9	956.6	806.7	672.3	579.2	513.6	482.3	459.8
57.5°	603.1	714.0	837.5	891.4	839.4	711.0	585.1	504.2	451.0	423.6	406.3
60°	538.6	626.1	736.1	800.4	755.4	641.1	531.1	454.2	410.5	386.1	369.9
62.5°	478.6	556.1	649.1	707.9	683.4	575.6	477.1	409.3	371.5	348.6	336.9
65°	394.8	456.1	528.0	582.3	566.1	484.2	403.7	345.5	315.5	297.4	288.0
67.5°	325.1	369.4	419.2	466.8	453.7	395.7	331.0	285.8	263.4	247.8	242.1
70°	281.2	314.9	359.3	397.4	386.8	339.2	288.0	249.3	229.9	216.8	211.2
72.5°	239.2	266.9	300.8	331.9	324.7	285.3	242.6	213.3	198.4	186.3	181.7
75°	180.6	201.8	222.4	243.0	241.2	210.6	185.6	163.1	151.2	141.9	140.0
77.5°	133.3	145.2	159.2	171.5	168.0	150.6	130.9	118.1	109.3	103.1	102.1
80°	101.8	108.7	118.7	127.4	123.1	115.6	100.0	90.6	84.4	78.1	75.6
82.5°	73.9	80.7	86.7	91.5	88.1	81.1	71.5	65.1	61.4	57.1	56.1
85°	38.7	42.5	45.0	46.2	45.0	40.6	36.2	33.8	30.7	28.8	28.1
87.5°	16.4	16.2	16.1	16.9	15.2	15.0	12.8	11.1	10.8	10.5	9.7
90°	7.0	6.3	5.5	4.6	3.5	2.5	1.5	0.4	1.5	2.5	3.5
92.5°	9.1	8.7	8.4	8.2	8.3	8.4	8.5	8.6	8.5	8.4	8.3
95°	15.2	14.6	13.9	15.2	18.3	21.4	24.5	27.6	24.5	21.4	18.3
97.5°	19.2	17.6	16.1	19.7	28.5	37.3	46.1	54.9	46.1	37.3	28.5
100°	21.0	19.4	17.9	23.5	36.4	49.4	62.4	75.3	62.4	49.4	36.4
102.5°	51.9	65.3	78.7	86.8	89.5	92.3	95.1	97.8	95.1	92.3	89.5
105°	77.6	103.4	129.2	140.7	137.9	135.0	132.2	129.3	132.2	135.0	137.9
107.5°	98.2	129.2	160.1	174.5	172.2	169.9	167.6	165.3	167.6	169.9	172.2
110°	129.1	156.5	183.8	196.4	194.4	192.5	190.5	188.5	190.5	192.5	194.4





TEST NUMBER: P331429-930

CATALOG NUMBER: SA2XXDIP-C1005D530U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.3	208.1	214.8	217.3	215.6	213.8	212.1	210.3	212.1	213.8	215.6
115°	257.8	255.4	253.1	251.1	249.5	247.9	246.2	244.7	246.2	247.9	249.5
117.5°	287.6	285.9	284.3	282.6	280.8	279.0	277.2	275.4	277.2	279.0	280.8
120°	308.5	306.8	305.1	303.5	302.1	300.7	299.2	297.8	299.2	300.7	302.1
122.5°	328.2	326.4	324.6	322.9	321.4	319.9	318.4	316.9	318.4	319.9	321.4
125°	356.0	354.2	352.4	350.8	349.6	348.4	347.2	345.9	347.2	348.4	349.6
127.5°	381.7	380.3	379.0	377.6	376.3	375.0	373.6	372.2	373.6	375.0	376.3
130°	398.3	397.3	396.2	394.9	393.5	391.9	390.4	388.9	390.4	391.9	393.5
132.5°	414.3	413.3	412.2	411.1	409.8	408.5	407.2	405.9	407.2	408.5	409.8
135°	437.0	436.1	435.3	434.1	432.6	431.0	429.6	428.0	429.6	431.0	432.6
137.5°	457.6	456.6	455.7	454.6	453.6	452.5	451.4	450.5	451.4	452.5	453.6
140°	471.1	470.0	469.0	468.1	467.3	466.6	465.8	465.0	465.8	466.6	467.3
142.5°	483.3	482.2	480.9	480.0	479.3	478.7	478.0	477.3	478.0	478.7	479.3
145°	500.1	498.6	496.9	496.2	496.3	496.4	496.4	496.5	496.4	496.4	496.3
147.5°	515.7	514.0	512.5	511.8	512.3	512.6	512.9	513.3	512.9	512.6	512.3
150°	525.0	523.5	522.0	521.5	522.2	522.9	523.5	524.2	523.5	522.9	522.2
152.5°	533.7	532.2	530.8	530.4	531.2	531.9	532.6	533.4	532.6	531.9	531.2
155°	545.8	544.6	543.5	543.3	544.2	545.0	545.9	546.7	545.9	545.0	544.2
157.5°	556.0	555.1	554.4	554.3	555.1	555.8	556.5	557.2	556.5	555.8	555.1
160°	562.2	561.7	561.1	561.1	561.7	562.2	562.8	563.4	562.8	562.2	561.7
162.5°	567.4	567.0	566.5	566.6	567.0	567.6	568.2	568.8	568.2	567.6	567.0
165°	574.2	574.0	573.7	573.8	574.4	574.9	575.5	576.1	575.5	574.9	574.4
167.5°	579.7	579.4	579.1	579.3	579.8	580.4	581.0	581.6	581.0	580.4	579.8
170°	582.5	582.4	582.1	582.4	582.9	583.5	584.1	584.6	584.1	583.5	582.9
172.5°	584.6	584.4	584.2	584.4	585.0	585.5	586.1	586.7	586.1	585.5	585.0
175°	586.8	586.6	586.4	586.6	587.3	588.0	588.6	589.3	588.6	588.0	587.3
177.5°	587.5	587.4	587.3	587.6	588.2	588.6	589.2	589.7	589.2	588.6	588.2
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331429-930

CATALOG NUMBER: SA2XXDIP-C1005D530U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1604.3	1601.2	1590.7	1585.3	1576.3	1567.7	1562.3	1564.8	1566.8	1565.8	1564.2
5°	1558.3	1546.4	1528.3	1512.6	1501.4	1480.8	1472.0	1467.7	1464.0	1459.5	1455.1
7.5°	1503.5	1484.8	1458.8	1436.6	1415.5	1389.9	1375.3	1366.6	1357.6	1347.7	1339.0
10°	1464.5	1438.3	1410.8	1379.6	1354.6	1331.5	1310.8	1297.1	1284.6	1272.8	1264.0
12.5°	1423.6	1393.3	1359.3	1316.6	1289.1	1256.0	1252.9	1228.7	1209.1	1201.8	1191.5
15°	1358.3	1315.8	1272.8	1222.1	1200.3	1170.3	1151.5	1132.8	1115.9	1104.0	1100.9
17.5°	1284.3	1229.2	1186.3	1150.0	1114.2	1083.5	1066.2	1051.2	1037.3	1021.4	1019.3
20°	1227.8	1180.2	1133.4	1101.6	1064.7	1033.4	1012.2	997.2	985.3	975.9	967.8
22.5°	1174.3	1122.3	1079.4	1044.6	1008.2	982.9	966.2	951.7	941.8	931.5	923.8
25°	1088.4	1047.8	1000.9	961.6	931.6	915.3	901.6	889.1	882.9	876.0	867.2
27.5°	1013.3	968.2	924.3	893.8	867.5	853.1	843.3	834.9	829.0	825.0	820.0
30°	960.3	914.7	880.4	850.4	828.5	814.2	807.9	802.9	796.0	793.5	791.0
32.5°	909.3	868.2	838.9	812.9	792.0	782.6	776.9	772.4	767.0	764.5	759.5
35°	837.2	802.9	774.1	759.8	742.9	734.7	730.4	724.1	719.2	716.6	716.0
37.5°	769.4	739.6	720.6	702.1	695.0	690.1	684.0	679.8	678.3	677.9	677.3
40°	725.4	701.0	684.2	669.2	666.0	658.5	653.5	649.8	649.8	650.4	649.8
42.5°	685.4	663.6	648.7	635.7	632.0	627.5	622.6	622.3	623.3	625.4	623.3
45°	624.8	609.2	598.6	592.3	585.5	581.1	580.4	582.3	582.9	583.6	585.5
47.5°	569.1	558.7	549.1	542.2	539.2	538.4	537.7	541.0	544.0	545.1	548.0
50°	536.1	524.2	516.1	511.7	509.2	507.9	509.2	513.0	515.4	518.6	520.5
52.5°	499.1	490.7	485.1	481.8	480.7	481.5	481.8	486.0	490.0	491.1	492.0
55°	448.0	441.7	440.5	434.9	437.3	436.8	439.9	442.4	446.1	449.9	450.5
57.5°	397.0	392.0	388.7	389.1	389.9	392.6	395.3	399.7	403.7	407.6	408.0
60°	363.1	360.5	358.7	358.7	359.9	363.6	366.7	371.1	373.7	376.1	378.0
62.5°	332.0	329.5	327.7	328.6	331.9	334.1	337.8	340.1	342.7	345.1	346.0
65°	283.1	281.8	283.6	284.9	285.5	288.7	293.0	294.9	297.4	298.6	303.0
67.5°	237.9	238.1	237.9	239.7	243.3	244.0	248.2	252.6	253.1	255.4	258.3
70°	207.4	208.7	209.9	211.2	214.3	215.6	218.7	220.5	223.1	224.9	226.8
72.5°	179.4	179.7	180.9	180.7	183.3	186.1	188.7	190.5	193.1	195.4	197.3
75°	138.1	138.1	139.3	140.0	143.1	146.2	145.6	146.8	149.4	151.8	153.1
77.5°	100.9	99.5	100.9	101.5	102.5	105.1	105.6	107.4	110.2	109.3	110.7
80°	76.9	75.0	76.9	77.5	77.5	80.6	80.6	81.9	83.7	81.9	83.7
82.5°	54.9	54.0	55.4	55.5	56.5	56.6	57.6	57.9	59.8	58.9	59.8
85°	27.5	26.9	27.5	26.9	27.5	28.1	28.1	27.5	27.5	28.8	26.9
87.5°	9.4	9.1	8.7	8.9	8.6	8.2	7.8	7.9	8.0	7.1	7.2
90°	4.6	5.5	6.3	7.0	7.7	8.5	9.0	9.5	9.9	10.4	10.8
92.5°	8.2	8.4	8.7	9.1	9.5	9.9	10.1	10.4	10.6	10.8	11.0
95°	15.2	13.9	14.6	15.2	15.9	16.6	17.0	17.5	18.0	18.5	18.7
97.5°	19.7	16.1	17.6	19.2	20.7	22.2	22.6	23.0	23.3	23.7	24.0
100°	23.5	17.9	19.4	21.0	22.7	24.2	25.0	25.8	26.5	27.3	27.7
102.5°	86.8	78.7	65.3	51.9	38.4	24.9	25.9	26.9	27.9	28.9	29.5
105°	140.7	129.2	103.4	77.6	51.8	25.9	27.0	28.0	29.1	30.1	30.8
107.5°	174.5	160.1	129.2	98.2	67.3	36.4	35.3	34.2	33.2	32.1	31.8
110°	196.4	183.8	156.5	129.1	101.7	74.4	65.0	55.5	46.1	36.6	32.1



TEST NUMBER: P331429-930

CATALOG NUMBER: SA2XXDIP-C1005D530U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	217.3	214.8	208.1	201.3	194.5	187.8	153.3	118.8	84.3	49.8	32.8
115°	251.1	253.1	255.4	257.8	260.2	262.5	218.7	175.0	131.2	87.4	62.1
117.5°	282.6	284.3	285.9	287.6	289.2	290.7	280.2	269.6	259.0	248.4	232.0
120°	303.5	305.1	306.8	308.5	310.1	311.9	313.0	314.1	315.3	316.4	310.6
122.5°	322.9	324.6	326.4	328.2	330.1	332.0	332.6	333.3	334.0	334.7	333.8
125°	350.8	352.4	354.2	356.0	357.8	359.5	360.2	360.9	361.5	362.2	362.6
127.5°	377.6	379.0	380.3	381.7	383.0	384.4	385.3	386.3	387.3	388.2	388.7
130°	394.9	396.2	397.3	398.3	399.3	400.4	401.5	402.4	403.5	404.6	405.0
132.5°	411.1	412.2	413.3	414.3	415.3	416.4	417.3	418.2	419.1	420.0	420.3
135°	434.1	435.3	436.1	437.0	437.8	438.6	439.6	440.6	441.5	442.5	442.9
137.5°	454.6	455.7	456.6	457.6	458.5	459.5	460.5	461.4	462.3	463.3	463.5
140°	468.1	469.0	470.0	471.1	472.1	473.1	474.0	474.8	475.6	476.5	476.7
142.5°	480.0	480.9	482.2	483.3	484.5	485.8	486.5	487.3	488.0	488.9	489.0
145°	496.2	496.9	498.6	500.1	501.7	503.4	504.0	504.7	505.3	506.0	506.1
147.5°	511.8	512.5	514.0	515.7	517.2	518.9	519.3	519.8	520.3	520.8	520.8
150°	521.5	522.0	523.5	525.0	526.5	528.0	528.6	529.1	529.7	530.3	530.4
152.5°	530.4	530.8	532.2	533.7	535.1	536.5	537.1	537.7	538.3	538.8	538.7
155°	543.3	543.5	544.6	545.8	546.9	548.0	548.6	549.2	549.8	550.3	550.2
157.5°	554.3	554.4	555.1	556.0	556.8	557.6	558.2	558.8	559.5	560.1	560.1
160°	561.1	561.1	561.7	562.2	562.8	563.4	563.9	564.4	565.0	565.6	565.6
162.5°	566.6	566.5	567.0	567.4	567.9	568.4	569.1	569.7	570.4	571.0	571.0
165°	573.8	573.7	574.0	574.2	574.5	574.8	575.5	576.2	576.8	577.5	577.5
167.5°	579.3	579.1	579.4	579.7	579.9	580.2	580.8	581.5	582.2	582.9	582.8
170°	582.4	582.1	582.4	582.5	582.7	582.9	583.6	584.2	584.9	585.5	585.5
172.5°	584.4	584.2	584.4	584.6	584.7	585.0	585.6	586.3	586.9	587.6	587.5
175°	586.6	586.4	586.6	586.8	586.9	587.2	587.8	588.5	589.1	589.8	589.7
177.5°	587.6	587.3	587.4	587.5	587.6	587.7	588.2	588.7	589.3	589.8	589.7
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331429-930  
 CATALOG NUMBER: SA2XXDIP-C1005D530U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1559.3	1558.3	1558.3	1553.8	1558.3	1558.3	1559.3	1564.2	1565.8	1566.8	1564.8
5°	1446.4	1444.5	1441.4	1444.5	1441.4	1444.5	1446.4	1455.1	1459.5	1464.0	1467.7
7.5°	1334.8	1327.3	1326.2	1318.8	1326.2	1327.3	1334.8	1339.0	1347.7	1357.6	1366.6
10°	1253.4	1248.4	1247.7	1235.8	1247.7	1248.4	1253.4	1264.0	1272.8	1284.6	1297.1
12.5°	1191.4	1179.4	1181.8	1174.8	1181.8	1179.4	1191.4	1191.5	1201.8	1209.1	1228.7
15°	1084.0	1084.0	1081.6	1070.9	1081.6	1084.0	1084.0	1100.9	1104.0	1115.9	1132.8
17.5°	1007.0	1005.7	999.7	1002.7	999.7	1005.7	1007.0	1019.3	1021.4	1037.3	1051.2
20°	960.9	957.2	949.7	949.7	949.7	957.2	960.9	967.8	975.9	985.3	997.2
22.5°	917.5	917.2	909.2	911.7	909.2	917.2	917.5	923.8	931.5	941.8	951.7
25°	866.6	861.6	857.9	859.7	857.9	861.6	866.6	867.2	876.0	882.9	889.1
27.5°	818.4	815.6	815.4	810.2	815.4	815.6	818.4	820.0	825.0	829.0	834.9
30°	790.4	784.2	785.4	782.3	785.4	784.2	790.4	791.0	793.5	796.0	802.9
32.5°	758.4	756.1	754.9	752.3	754.9	756.1	758.4	759.5	764.5	767.0	772.4
35°	714.8	715.4	712.2	713.5	712.2	715.4	714.8	716.0	716.6	719.2	724.1
37.5°	676.7	678.7	677.2	677.5	677.2	678.7	676.7	677.3	677.9	678.3	679.8
40°	651.7	651.7	651.7	653.5	651.7	651.7	651.7	649.8	650.4	649.8	649.8
42.5°	627.7	626.7	625.7	625.6	625.7	626.7	627.7	623.3	625.4	623.3	622.3
45°	586.7	588.6	589.2	586.0	589.2	588.6	586.7	585.5	583.6	582.9	582.3
47.5°	549.6	549.8	549.6	552.4	549.6	549.8	549.6	548.0	545.1	544.0	541.0
50°	523.6	522.4	523.6	522.4	523.6	522.4	523.6	520.5	518.6	515.4	513.0
52.5°	496.1	496.4	495.6	495.4	495.6	496.4	496.1	492.0	491.1	490.0	486.0
55°	453.0	454.2	453.6	453.6	453.6	454.2	453.0	450.5	449.9	446.1	442.4
57.5°	408.4	409.5	410.3	407.6	410.3	409.5	408.4	408.0	407.6	403.7	399.7
60°	377.4	380.5	379.8	378.6	379.8	380.5	377.4	378.0	376.1	373.7	371.1
62.5°	348.9	350.0	349.9	349.7	349.9	350.0	348.9	346.0	345.1	342.7	340.1
65°	304.9	306.1	304.3	306.1	304.3	306.1	304.9	303.0	298.6	297.4	294.9
67.5°	257.6	258.0	259.3	260.2	259.3	258.0	257.6	258.3	255.4	253.1	252.6
70°	228.0	227.5	229.3	231.2	229.3	227.5	228.0	226.8	224.9	223.1	220.5
72.5°	197.1	198.4	197.8	199.2	197.8	198.4	197.1	197.3	195.4	193.1	190.5
75°	151.8	153.7	153.1	155.0	153.1	153.7	151.8	153.1	151.8	149.4	146.8
77.5°	109.7	110.0	109.7	110.7	109.7	110.0	109.7	110.7	109.3	110.2	107.4
80°	83.7	82.5	81.2	83.7	81.2	82.5	83.7	83.7	81.9	83.7	81.9
82.5°	58.2	58.9	57.7	57.7	57.7	58.9	58.2	59.8	58.9	59.8	57.9
85°	26.9	26.3	25.0	25.0	25.0	26.3	26.9	26.9	28.8	27.5	27.5
87.5°	7.2	6.7	6.8	6.3	6.8	6.7	7.2	7.2	7.1	8.0	7.9
90°	10.9	11.1	11.3	11.5	11.3	11.1	10.9	10.8	10.4	9.9	9.5
92.5°	11.2	11.3	11.4	11.5	11.4	11.3	11.2	11.0	10.8	10.6	10.4
95°	18.6	18.5	18.4	18.3	18.4	18.5	18.6	18.7	18.5	18.0	17.5
97.5°	24.1	24.2	24.3	24.5	24.3	24.2	24.1	24.0	23.7	23.3	23.0
100°	28.0	28.1	28.3	28.5	28.3	28.1	28.0	27.7	27.3	26.5	25.8
102.5°	29.8	30.0	30.2	30.6	30.2	30.0	29.8	29.5	28.9	27.9	26.9
105°	31.2	31.6	32.0	32.4	32.0	31.6	31.2	30.8	30.1	29.1	28.0
107.5°	32.1	32.5	32.9	33.3	32.9	32.5	32.1	31.8	32.1	33.2	34.2
110°	32.4	32.9	33.3	33.6	33.3	32.9	32.4	32.1	36.6	46.1	55.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	33.0	33.3	33.7	33.9	33.7	33.3	33.0	32.8	49.8	84.3	118.8
115°	55.3	48.5	41.7	34.9	41.7	48.5	55.3	62.1	87.4	131.2	175.0
117.5°	209.5	187.2	164.9	142.4	164.9	187.2	209.5	232.0	248.4	259.0	269.6
120°	297.8	285.1	272.3	259.5	272.3	285.1	297.8	310.6	316.4	315.3	314.1
122.5°	331.3	328.8	326.4	323.8	326.4	328.8	331.3	333.8	334.7	334.0	333.3
125°	363.0	363.2	363.5	363.8	363.5	363.2	363.0	362.6	362.2	361.5	360.9
127.5°	388.8	388.9	388.9	389.0	388.9	388.9	388.8	388.7	388.2	387.3	386.3
130°	404.9	404.8	404.7	404.6	404.7	404.8	404.9	405.0	404.6	403.5	402.4
132.5°	420.2	420.1	420.0	420.0	420.0	420.1	420.2	420.3	420.0	419.1	418.2
135°	442.6	442.5	442.3	442.1	442.3	442.5	442.6	442.9	442.5	441.5	440.6
137.5°	463.2	462.8	462.6	462.3	462.6	462.8	463.2	463.5	463.3	462.3	461.4
140°	476.2	475.8	475.3	474.8	475.3	475.8	476.2	476.7	476.5	475.6	474.8
142.5°	488.5	488.0	487.5	487.1	487.5	488.0	488.5	489.0	488.9	488.0	487.3
145°	505.6	505.2	504.7	504.2	504.7	505.2	505.6	506.1	506.0	505.3	504.7
147.5°	520.5	520.1	519.7	519.3	519.7	520.1	520.5	520.8	520.8	520.3	519.8
150°	529.9	529.4	528.9	528.5	528.9	529.4	529.9	530.4	530.3	529.7	529.1
152.5°	538.2	537.5	536.9	536.3	536.9	537.5	538.2	538.7	538.8	538.3	537.7
155°	549.4	548.7	548.0	547.1	548.0	548.7	549.4	550.2	550.3	549.8	549.2
157.5°	559.3	558.6	557.8	557.1	557.8	558.6	559.3	560.1	560.1	559.5	558.8
160°	564.9	564.3	563.5	562.9	563.5	564.3	564.9	565.6	565.6	565.0	564.4
162.5°	570.1	569.3	568.5	567.7	568.5	569.3	570.1	571.0	571.0	570.4	569.7
165°	576.8	576.2	575.5	574.8	575.5	576.2	576.8	577.5	577.5	576.8	576.2
167.5°	581.9	581.1	580.2	579.4	580.2	581.1	581.9	582.8	582.9	582.2	581.5
170°	584.6	583.8	582.9	582.0	582.9	583.8	584.6	585.5	585.5	584.9	584.2
172.5°	586.7	585.8	585.0	584.1	585.0	585.8	586.7	587.5	587.6	586.9	586.3
175°	588.7	587.7	586.9	585.9	586.9	587.7	588.7	589.7	589.8	589.1	588.5
177.5°	589.1	588.3	587.7	587.0	587.7	588.3	589.1	589.7	589.8	589.3	588.7
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331429-930

CATALOG NUMBER: SA2XXDIP-C1005D530U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1562.3	1567.7	1576.3	1585.3	1590.7	1601.2	1604.3	1609.2	1613.7	1624.2	1635.2
5°	1472.0	1480.8	1501.4	1512.6	1528.3	1546.4	1558.3	1570.8	1584.5	1608.3	1630.1
7.5°	1375.3	1389.9	1415.5	1436.6	1458.8	1484.8	1503.5	1528.3	1548.7	1582.3	1614.2
10°	1310.8	1331.5	1354.6	1379.6	1410.8	1438.3	1464.5	1495.7	1520.8	1560.7	1598.2
12.5°	1252.9	1256.0	1289.1	1316.6	1359.3	1393.3	1423.6	1463.8	1488.2	1535.8	1575.2
15°	1151.5	1170.3	1200.3	1222.1	1272.8	1315.8	1358.3	1400.2	1428.3	1487.0	1538.9
17.5°	1066.2	1083.5	1114.2	1150.0	1186.3	1229.2	1284.3	1328.4	1366.6	1433.7	1495.0
20°	1012.2	1033.4	1064.7	1101.6	1133.4	1180.2	1227.8	1278.4	1319.6	1395.2	1467.0
22.5°	966.2	982.9	1008.2	1044.6	1079.4	1122.3	1174.3	1229.4	1272.6	1354.2	1427.0
25°	901.6	915.3	931.6	961.6	1000.9	1047.8	1088.4	1149.0	1212.1	1288.3	1376.5
27.5°	843.3	853.1	867.5	893.8	924.3	968.2	1013.3	1070.8	1134.2	1217.0	1309.9
30°	807.9	814.2	828.5	850.4	880.4	914.7	960.3	1015.3	1080.3	1164.0	1256.5
32.5°	776.9	782.6	792.0	812.9	838.9	868.2	909.3	964.3	1026.3	1108.6	1211.0
35°	730.4	734.7	742.9	759.8	774.1	802.9	837.2	887.2	945.3	1024.1	1130.2
37.5°	684.0	690.1	695.0	702.1	720.6	739.6	769.4	811.6	868.6	948.1	1049.3
40°	653.5	658.5	666.0	669.2	684.2	701.0	725.4	764.1	821.7	894.1	992.8
42.5°	622.6	627.5	632.0	635.7	648.7	663.6	685.4	718.7	769.6	840.1	937.8
45°	580.4	581.1	585.5	592.3	598.6	609.2	624.8	653.5	692.9	759.1	847.8
47.5°	537.7	538.4	539.2	542.2	549.1	558.7	569.1	592.5	627.7	680.5	766.9
50°	509.2	507.9	509.2	511.7	516.1	524.2	536.1	552.9	581.7	631.0	710.4
52.5°	481.8	481.5	480.7	481.8	485.1	490.7	499.1	513.5	539.2	584.6	654.4
55°	439.9	436.8	437.3	434.9	440.5	441.7	448.0	459.8	482.3	513.6	579.2
57.5°	395.3	392.6	389.9	389.1	388.7	392.0	397.0	406.3	423.6	451.0	504.2
60°	366.7	363.6	359.9	358.7	358.7	360.5	363.1	369.9	386.1	410.5	454.2
62.5°	337.8	334.1	331.9	328.6	327.7	329.5	332.0	336.9	348.6	371.5	409.3
65°	293.0	288.7	285.5	284.9	283.6	281.8	283.1	288.0	297.4	315.5	345.5
67.5°	248.2	244.0	243.3	239.7	237.9	238.1	237.9	242.1	247.8	263.4	285.8
70°	218.7	215.6	214.3	211.2	209.9	208.7	207.4	211.2	216.8	229.9	249.3
72.5°	188.7	186.1	183.3	180.7	180.9	179.7	179.4	181.7	186.3	198.4	213.3
75°	145.6	146.2	143.1	140.0	139.3	138.1	138.1	140.0	141.9	151.2	163.1
77.5°	105.6	105.1	102.5	101.5	100.9	99.5	100.9	102.1	103.1	109.3	118.1
80°	80.6	80.6	77.5	77.5	76.9	75.0	76.9	75.6	78.1	84.4	90.6
82.5°	57.6	56.6	56.5	55.5	55.4	54.0	54.9	56.1	57.1	61.4	65.1
85°	28.1	28.1	27.5	26.9	27.5	26.9	27.5	28.1	28.8	30.7	33.8
87.5°	7.8	8.2	8.6	8.9	8.7	9.1	9.4	9.7	10.5	10.8	11.1
90°	9.0	8.5	7.7	7.0	6.3	5.5	4.6	3.5	2.5	1.5	0.4
92.5°	10.1	9.9	9.5	9.1	8.7	8.4	8.2	8.3	8.4	8.5	8.6
95°	17.0	16.6	15.9	15.2	14.6	13.9	15.2	18.3	21.4	24.5	27.6
97.5°	22.6	22.2	20.7	19.2	17.6	16.1	19.7	28.5	37.3	46.1	54.9
100°	25.0	24.2	22.7	21.0	19.4	17.9	23.5	36.4	49.4	62.4	75.3
102.5°	25.9	24.9	38.4	51.9	65.3	78.7	86.8	89.5	92.3	95.1	97.8
105°	27.0	25.9	51.8	77.6	103.4	129.2	140.7	137.9	135.0	132.2	129.3
107.5°	35.3	36.4	67.3	98.2	129.2	160.1	174.5	172.2	169.9	167.6	165.3
110°	65.0	74.4	101.7	129.1	156.5	183.8	196.4	194.4	192.5	190.5	188.5



TEST NUMBER: P331429-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	153.3	187.8	194.5	201.3	208.1	214.8	217.3	215.6	213.8	212.1	210.3
115°	218.7	262.5	260.2	257.8	255.4	253.1	251.1	249.5	247.9	246.2	244.7
117.5°	280.2	290.7	289.2	287.6	285.9	284.3	282.6	280.8	279.0	277.2	275.4
120°	313.0	311.9	310.1	308.5	306.8	305.1	303.5	302.1	300.7	299.2	297.8
122.5°	332.6	332.0	330.1	328.2	326.4	324.6	322.9	321.4	319.9	318.4	316.9
125°	360.2	359.5	357.8	356.0	354.2	352.4	350.8	349.6	348.4	347.2	345.9
127.5°	385.3	384.4	383.0	381.7	380.3	379.0	377.6	376.3	375.0	373.6	372.2
130°	401.5	400.4	399.3	398.3	397.3	396.2	394.9	393.5	391.9	390.4	388.9
132.5°	417.3	416.4	415.3	414.3	413.3	412.2	411.1	409.8	408.5	407.2	405.9
135°	439.6	438.6	437.8	437.0	436.1	435.3	434.1	432.6	431.0	429.6	428.0
137.5°	460.5	459.5	458.5	457.6	456.6	455.7	454.6	453.6	452.5	451.4	450.5
140°	474.0	473.1	472.1	471.1	470.0	469.0	468.1	467.3	466.6	465.8	465.0
142.5°	486.5	485.8	484.5	483.3	482.2	480.9	480.0	479.3	478.7	478.0	477.3
145°	504.0	503.4	501.7	500.1	498.6	496.9	496.2	496.3	496.4	496.4	496.5
147.5°	519.3	518.9	517.2	515.7	514.0	512.5	511.8	512.3	512.6	512.9	513.3
150°	528.6	528.0	526.5	525.0	523.5	522.0	521.5	522.2	522.9	523.5	524.2
152.5°	537.1	536.5	535.1	533.7	532.2	530.8	530.4	531.2	531.9	532.6	533.4
155°	548.6	548.0	546.9	545.8	544.6	543.5	543.3	544.2	545.0	545.9	546.7
157.5°	558.2	557.6	556.8	556.0	555.1	554.4	554.3	555.1	555.8	556.5	557.2
160°	563.9	563.4	562.8	562.2	561.7	561.1	561.1	561.7	562.2	562.8	563.4
162.5°	569.1	568.4	567.9	567.4	567.0	566.5	566.6	567.0	567.6	568.2	568.8
165°	575.5	574.8	574.5	574.2	574.0	573.7	573.8	574.4	574.9	575.5	576.1
167.5°	580.8	580.2	579.9	579.7	579.4	579.1	579.3	579.8	580.4	581.0	581.6
170°	583.6	582.9	582.7	582.5	582.4	582.1	582.4	582.9	583.5	584.1	584.6
172.5°	585.6	585.0	584.7	584.6	584.4	584.2	584.4	585.0	585.5	586.1	586.7
175°	587.8	587.2	586.9	586.8	586.6	586.4	586.6	587.3	588.0	588.6	589.3
177.5°	588.2	587.7	587.6	587.5	587.4	587.3	587.6	588.2	588.6	589.2	589.7
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331429-930

CATALOG NUMBER: SA2XXDIP-C1005D530U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1634.3	1636.7	1644.7	1652.8	1661.7	1664.3	1668.3	1664.8	1663.7	1673.2	1680.3
5°	1638.8	1650.1	1672.0	1692.0	1708.9	1720.7	1733.2	1738.2	1747.6	1760.7	1776.9
7.5°	1633.6	1655.5	1689.9	1719.0	1750.7	1773.6	1791.5	1806.7	1825.2	1850.1	1877.1
10°	1627.6	1657.0	1698.8	1734.5	1773.2	1802.5	1826.9	1850.6	1878.2	1912.5	1948.2
12.5°	1616.7	1651.5	1703.8	1746.0	1795.7	1824.6	1857.4	1908.7	1938.1	1986.0	2036.1
15°	1594.5	1633.2	1706.3	1758.2	1814.4	1869.4	1930.1	1978.7	2027.5	2055.6	2126.2
17.5°	1561.6	1618.5	1699.5	1760.0	1831.4	1918.0	1986.2	2041.3	2097.6	2143.2	2178.6
20°	1535.1	1597.0	1689.5	1761.9	1846.9	1940.0	2018.1	2074.4	2123.1	2161.2	2183.0
22.5°	1501.6	1579.5	1669.5	1754.4	1863.0	1955.0	2037.1	2081.4	2122.1	2140.7	2149.0
25°	1448.9	1542.6	1644.5	1748.2	1870.7	1968.1	2043.1	2070.0	2081.9	2063.8	2033.8
27.5°	1392.0	1496.6	1615.6	1736.4	1865.9	1959.7	2013.4	2009.1	1989.0	1930.4	1883.5
30°	1349.6	1464.5	1592.6	1724.4	1854.4	1945.6	1976.9	1945.6	1900.1	1834.4	1767.6
32.5°	1305.1	1424.1	1568.1	1707.5	1833.4	1913.7	1920.4	1866.7	1796.1	1721.5	1638.1
35°	1237.7	1366.4	1522.0	1669.5	1788.8	1839.4	1809.5	1714.5	1630.8	1528.9	1415.2
37.5°	1161.6	1303.7	1459.8	1613.9	1722.0	1735.2	1660.8	1560.7	1442.7	1323.0	1189.1
40°	1104.6	1255.2	1415.8	1571.4	1667.0	1653.3	1558.3	1448.3	1307.7	1161.5	1037.1
42.5°	1053.7	1204.3	1367.8	1520.4	1597.0	1559.3	1448.3	1313.4	1162.3	1024.6	910.7
45°	965.3	1120.3	1287.8	1435.2	1479.0	1410.8	1264.0	1114.0	965.3	850.4	760.4
47.5°	879.6	1032.8	1198.7	1328.2	1343.7	1252.1	1091.7	937.3	809.5	715.9	652.4
50°	816.6	970.3	1134.7	1250.3	1245.2	1134.7	969.7	822.9	716.0	640.4	597.9
52.5°	760.1	905.3	1063.2	1168.2	1141.7	1021.2	863.7	733.4	645.6	586.4	548.0
55°	672.3	806.7	956.6	1040.9	992.2	858.5	725.4	620.4	555.5	511.1	481.1
57.5°	585.1	711.0	839.4	891.4	837.5	714.0	603.1	526.9	478.1	445.2	425.7
60°	531.1	641.1	755.4	800.4	736.1	626.1	538.6	470.5	431.1	404.2	386.8
62.5°	477.1	575.6	683.4	707.9	649.1	556.1	478.6	422.0	389.6	365.7	349.3
65°	403.7	484.2	566.1	582.3	528.0	456.1	394.8	358.0	329.3	311.8	298.6
67.5°	331.0	395.7	453.7	466.8	419.2	369.4	325.1	293.0	273.5	259.0	247.9
70°	288.0	339.2	386.8	397.4	359.3	314.9	281.2	255.5	238.1	225.6	214.9
72.5°	242.6	285.3	324.7	331.9	300.8	266.9	239.2	219.1	203.6	195.6	185.5
75°	185.6	210.6	241.2	243.0	222.4	201.8	180.6	167.5	159.3	149.4	144.3
77.5°	130.9	150.6	168.0	171.5	159.2	145.2	133.3	122.9	116.1	111.5	106.8
80°	100.0	115.6	123.1	127.4	118.7	108.7	101.8	95.0	90.6	87.5	84.4
82.5°	71.5	81.1	88.1	91.5	86.7	80.7	73.9	70.0	66.6	64.0	62.9
85°	36.2	40.6	45.0	46.2	45.0	42.5	38.7	38.7	36.9	36.2	36.2
87.5°	12.8	15.0	15.2	16.9	16.1	16.2	16.4	16.1	15.7	15.3	14.9
90°	1.5	2.5	3.5	4.6	5.5	6.3	7.0	7.7	8.5	9.0	9.5
92.5°	8.5	8.4	8.3	8.2	8.4	8.7	9.1	9.5	9.9	10.1	10.4
95°	24.5	21.4	18.3	15.2	13.9	14.6	15.2	15.9	16.6	17.0	17.5
97.5°	46.1	37.3	28.5	19.7	16.1	17.6	19.2	20.7	22.2	22.6	23.0
100°	62.4	49.4	36.4	23.5	17.9	19.4	21.0	22.7	24.2	25.0	25.8
102.5°	95.1	92.3	89.5	86.8	78.7	65.3	51.9	38.4	24.9	25.9	26.9
105°	132.2	135.0	137.9	140.7	129.2	103.4	77.6	51.8	25.9	27.0	28.0
107.5°	167.6	169.9	172.2	174.5	160.1	129.2	98.2	67.3	36.4	35.3	34.2
110°	190.5	192.5	194.4	196.4	183.8	156.5	129.1	101.7	74.4	65.0	55.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	212.1	213.8	215.6	217.3	214.8	208.1	201.3	194.5	187.8	153.3	118.8
115°	246.2	247.9	249.5	251.1	253.1	255.4	257.8	260.2	262.5	218.7	175.0
117.5°	277.2	279.0	280.8	282.6	284.3	285.9	287.6	289.2	290.7	280.2	269.6
120°	299.2	300.7	302.1	303.5	305.1	306.8	308.5	310.1	311.9	313.0	314.1
122.5°	318.4	319.9	321.4	322.9	324.6	326.4	328.2	330.1	332.0	332.6	333.3
125°	347.2	348.4	349.6	350.8	352.4	354.2	356.0	357.8	359.5	360.2	360.9
127.5°	373.6	375.0	376.3	377.6	379.0	380.3	381.7	383.0	384.4	385.3	386.3
130°	390.4	391.9	393.5	394.9	396.2	397.3	398.3	399.3	400.4	401.5	402.4
132.5°	407.2	408.5	409.8	411.1	412.2	413.3	414.3	415.3	416.4	417.3	418.2
135°	429.6	431.0	432.6	434.1	435.3	436.1	437.0	437.8	438.6	439.6	440.6
137.5°	451.4	452.5	453.6	454.6	455.7	456.6	457.6	458.5	459.5	460.5	461.4
140°	465.8	466.6	467.3	468.1	469.0	470.0	471.1	472.1	473.1	474.0	474.8
142.5°	478.0	478.7	479.3	480.0	480.9	482.2	483.3	484.5	485.8	486.5	487.3
145°	496.4	496.4	496.3	496.2	496.9	498.6	500.1	501.7	503.4	504.0	504.7
147.5°	512.9	512.6	512.3	511.8	512.5	514.0	515.7	517.2	518.9	519.3	519.8
150°	523.5	522.9	522.2	521.5	522.0	523.5	525.0	526.5	528.0	528.6	529.1
152.5°	532.6	531.9	531.2	530.4	530.8	532.2	533.7	535.1	536.5	537.1	537.7
155°	545.9	545.0	544.2	543.3	543.5	544.6	545.8	546.9	548.0	548.6	549.2
157.5°	556.5	555.8	555.1	554.3	554.4	555.1	556.0	556.8	557.6	558.2	558.8
160°	562.8	562.2	561.7	561.1	561.1	561.7	562.2	562.8	563.4	563.9	564.4
162.5°	568.2	567.6	567.0	566.6	566.5	567.0	567.4	567.9	568.4	569.1	569.7
165°	575.5	574.9	574.4	573.8	573.7	574.0	574.2	574.5	574.8	575.5	576.2
167.5°	581.0	580.4	579.8	579.3	579.1	579.4	579.7	579.9	580.2	580.8	581.5
170°	584.1	583.5	582.9	582.4	582.1	582.4	582.5	582.7	582.9	583.6	584.2
172.5°	586.1	585.5	585.0	584.4	584.2	584.4	584.6	584.7	585.0	585.6	586.3
175°	588.6	588.0	587.3	586.6	586.4	586.6	586.8	586.9	587.2	587.8	588.5
177.5°	589.2	588.6	588.2	587.6	587.3	587.4	587.5	587.6	587.7	588.2	588.7
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1686.2	1693.2	1693.2	1694.2	1702.2	1701.2	1700.7
5°	1794.5	1805.1	1806.3	1817.5	1825.0	1822.5	1815.7
7.5°	1896.5	1916.3	1931.3	1939.7	1949.5	1955.7	1952.9
10°	1977.5	2006.3	2023.7	2035.6	2050.0	2060.6	2056.8
12.5°	2051.0	2085.2	2109.3	2129.6	2131.4	2145.1	2135.8
15°	2165.6	2201.8	2205.5	2220.5	2232.5	2231.1	2231.8
17.5°	2203.4	2215.1	2217.5	2217.8	2217.9	2213.5	2204.1
20°	2190.0	2185.6	2175.0	2166.8	2152.5	2150.6	2138.1
22.5°	2126.0	2112.1	2085.5	2067.8	2045.5	2039.6	2036.1
25°	2000.0	1969.4	1926.9	1886.3	1875.0	1853.2	1859.5
27.5°	1827.2	1779.5	1733.5	1700.5	1670.6	1637.9	1647.2
30°	1705.7	1652.0	1587.0	1537.0	1505.1	1473.9	1468.3
32.5°	1560.7	1482.1	1409.6	1365.5	1316.7	1297.0	1275.4
35°	1310.8	1234.0	1162.1	1100.2	1064.7	1037.1	1012.2
37.5°	1086.1	997.6	939.6	889.5	863.7	848.0	852.0
40°	946.6	869.1	826.6	788.5	764.8	753.5	756.0
42.5°	833.6	775.6	740.6	714.5	697.8	691.5	690.1
45°	705.4	672.9	644.2	629.2	621.1	614.2	609.8
47.5°	617.9	591.4	575.2	566.3	559.2	552.2	552.0
50°	565.4	548.0	536.7	527.3	521.7	516.7	521.1
52.5°	525.5	509.5	498.2	489.8	487.7	483.2	483.1
55°	466.1	453.6	445.5	438.0	434.2	431.7	428.6
57.5°	412.1	400.2	392.7	388.0	380.9	378.4	377.4
60°	373.7	364.3	356.8	350.5	347.4	342.4	342.4
62.5°	338.1	328.8	321.8	317.0	311.9	309.9	310.4
65°	286.8	279.3	272.4	267.4	266.2	262.4	263.7
67.5°	239.5	234.6	227.3	224.5	222.2	220.2	218.7
70°	208.1	203.1	199.3	195.6	193.7	193.7	193.7
72.5°	181.6	175.5	173.3	168.6	169.7	167.7	165.7
75°	140.6	136.8	134.9	133.1	130.0	130.0	130.0
77.5°	103.5	102.3	100.1	98.1	97.3	96.7	96.9
80°	80.0	79.3	78.1	78.1	76.9	76.2	75.0
82.5°	61.5	59.8	59.1	58.6	58.4	58.2	58.0
85°	35.0	33.8	33.8	34.3	33.1	33.1	33.8
87.5°	15.5	15.6	15.2	15.2	15.7	15.2	15.3
90°	9.9	10.4	10.8	10.9	11.1	11.3	11.5
92.5°	10.6	10.8	11.0	11.2	11.3	11.4	11.5
95°	18.0	18.5	18.7	18.6	18.5	18.4	18.3
97.5°	23.3	23.7	24.0	24.1	24.2	24.3	24.5
100°	26.5	27.3	27.7	28.0	28.1	28.3	28.5
102.5°	27.9	28.9	29.5	29.8	30.0	30.2	30.6
105°	29.1	30.1	30.8	31.2	31.6	32.0	32.4
107.5°	33.2	32.1	31.8	32.1	32.5	32.9	33.3
110°	46.1	36.6	32.1	32.4	32.9	33.3	33.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	84.3	49.8	32.8	33.0	33.3	33.7	33.9
115°	131.2	87.4	62.1	55.3	48.5	41.7	34.9
117.5°	259.0	248.4	232.0	209.5	187.2	164.9	142.4
120°	315.3	316.4	310.6	297.8	285.1	272.3	259.5
122.5°	334.0	334.7	333.8	331.3	328.8	326.4	323.8
125°	361.5	362.2	362.6	363.0	363.2	363.5	363.8
127.5°	387.3	388.2	388.7	388.8	388.9	388.9	389.0
130°	403.5	404.6	405.0	404.9	404.8	404.7	404.6
132.5°	419.1	420.0	420.3	420.2	420.1	420.0	420.0
135°	441.5	442.5	442.9	442.6	442.5	442.3	442.1
137.5°	462.3	463.3	463.5	463.2	462.8	462.6	462.3
140°	475.6	476.5	476.7	476.2	475.8	475.3	474.8
142.5°	488.0	488.9	489.0	488.5	488.0	487.5	487.1
145°	505.3	506.0	506.1	505.6	505.2	504.7	504.2
147.5°	520.3	520.8	520.8	520.5	520.1	519.7	519.3
150°	529.7	530.3	530.4	529.9	529.4	528.9	528.5
152.5°	538.3	538.8	538.7	538.2	537.5	536.9	536.3
155°	549.8	550.3	550.2	549.4	548.7	548.0	547.1
157.5°	559.5	560.1	560.1	559.3	558.6	557.8	557.1
160°	565.0	565.6	565.6	564.9	564.3	563.5	562.9
162.5°	570.4	571.0	571.0	570.1	569.3	568.5	567.7
165°	576.8	577.5	577.5	576.8	576.2	575.5	574.8
167.5°	582.2	582.9	582.8	581.9	581.1	580.2	579.4
170°	584.9	585.5	585.5	584.6	583.8	582.9	582.0
172.5°	586.9	587.6	587.5	586.7	585.8	585.0	584.1
175°	589.1	589.8	589.7	588.7	587.7	586.9	585.9
177.5°	589.3	589.8	589.7	589.1	588.3	587.7	587.0
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0

(END OF REPORT)