

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: P331422-935

Luminaire Tested: **SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331422-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

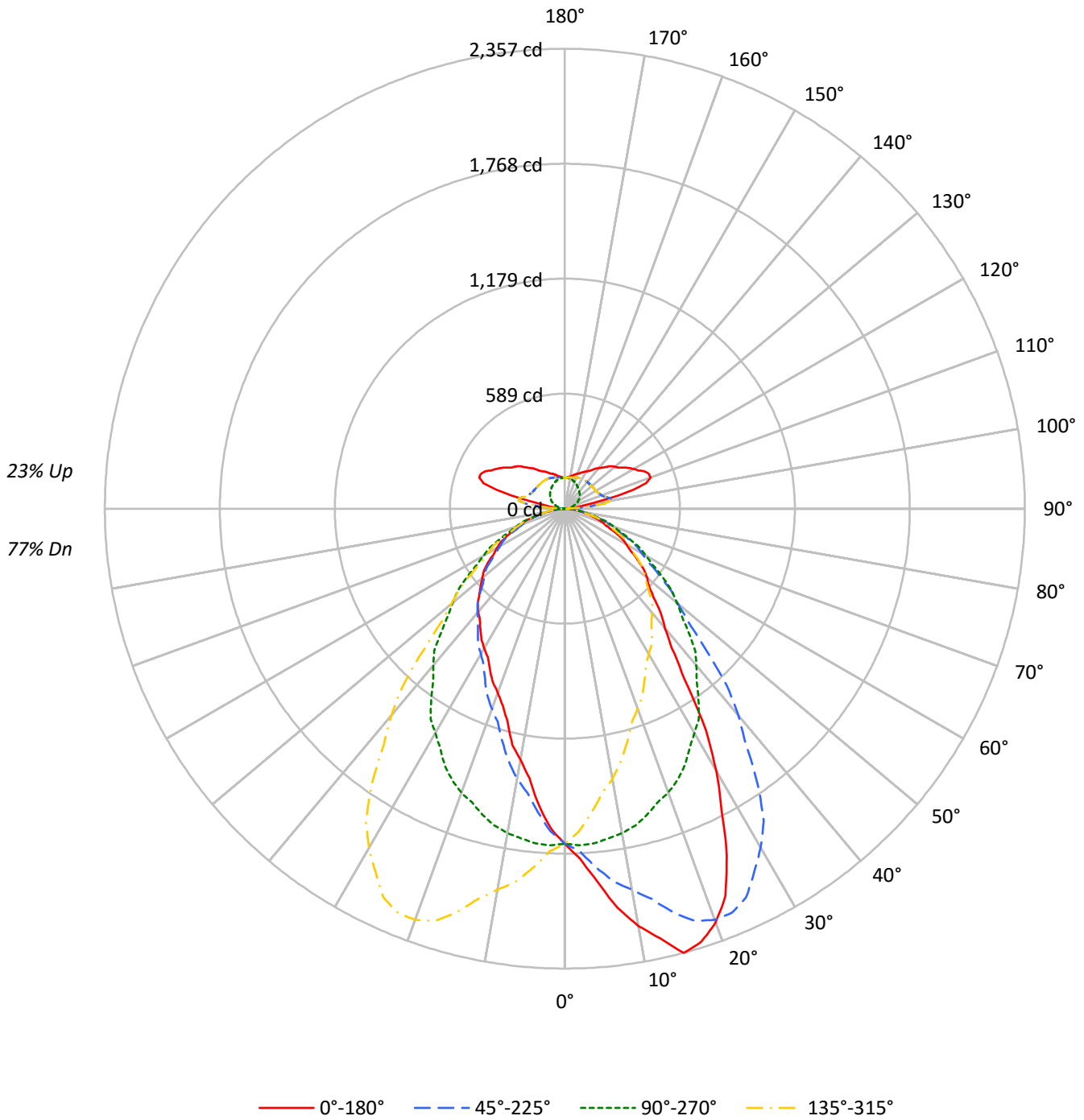
Lumens per Lamp: N/A  
Luminaire Lumens: 4890.0 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 49.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331422-935  
CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

### Luminous Intensity Polar Plot





TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**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	114	114	114	114	108	108	108	108	99	99	99	90	90	90	81	81	81	77
1	105	100	97	93	100	96	93	90	88	85	83	80	78	76	73	72	70	67
2	96	89	83	77	91	85	79	75	78	74	70	71	68	65	65	63	60	57
3	88	79	71	66	84	75	69	64	69	64	60	64	59	56	59	55	52	49
4	81	70	62	56	77	67	60	55	62	56	52	57	53	49	53	49	46	43
5	75	63	55	49	71	61	53	48	56	50	45	52	47	43	48	44	40	38
6	69	57	49	43	66	55	48	42	51	45	40	47	42	38	44	39	36	34
7	64	52	44	38	61	50	43	37	47	40	36	43	38	34	40	36	32	30
8	60	48	40	34	57	46	39	34	43	37	32	40	35	31	37	33	29	27
9	56	44	36	31	54	42	35	30	40	33	29	37	32	28	35	30	27	25
10	53	40	33	28	50	39	32	28	37	31	27	34	29	25	32	28	24	23

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

	0°	90°	180°	270°
0°	27719	27719	27719	27719
5°	31076	27901	24725	27901
10°	35611	27671	21397	27671
15°	39397	27164	18903	27164
20°	38797	26620	17234	26620
25°	34983	25896	16174	25896
30°	28909	24738	15401	24738
35°	21068	23526	14852	23526
40°	16828	22097	14547	22097
45°	14705	20445	14132	20445
50°	13823	18844	13855	18844
55°	12740	17219	13486	17219
60°	11677	15490	12910	15490
65°	10636	13941	12351	13941
70°	9659	12430	11528	12430
75°	8559	10742	10212	10742
80°	7364	8898	8219	8898
85°	6595	6595	4891	6595



TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.5	3.3
10°-20°	475.3	9.7
20°-30°	689.9	14.1
30°-40°	728.0	14.9
40°-50°	644.6	13.2
50°-60°	514.4	10.5
60°-70°	349.6	7.1
70°-80°	179.3	3.7
80°-90°	44.6	0.9
90°-100°	63.3	1.3
100°-110°	214.7	4.4
110°-120°	228.0	4.7
120°-130°	187.7	3.8
130°-140°	150.7	3.1
140°-150°	113.9	2.3
150°-160°	80.1	1.6
160°-170°	47.1	1.0
170°-180°	15.3	0.3
0°-30°	1328.7	27.2
0°-40°	2056.7	42.1
0°-60°	3215.7	65.8
0°-90°	3789.2	77.5
90°-120°	505.9	10.3
90°-150°	958.3	19.6
90°-180°	1101.0	22.5
0°-180°	4890.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1717	1717	1717	1717	1717	
5°	1917	1722	1526	1722	1917	191
15°	2357	1625	1131	1625	2357	650
25°	1964	1454	908	1454	1964	888
35°	1069	1194	754	1194	1069	695
45°	644	895	619	895	644	506
55°	453	612	479	612	453	406
65°	278	365	323	365	278	277
75°	137	172	164	172	137	147
85°	36	36	26	36	36	39
90°	10	0	10	0	10	7
95°	35	11	35	11	35	45
105°	343	37	343	37	343	332
115°	451	65	451	65	451	442
125°	366	91	366	91	366	331
135°	303	107	303	107	303	236
145°	242	122	242	122	242	154
155°	204	139	204	139	204	95
165°	179	152	179	152	179	51
175°	161	158	161	158	161	16
180°	158	158	158	158	158	



TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1796.0	1796.6	1797.6	1789.2	1788.1	1788.1	1780.7	1774.4	1767.0	1757.0	1758.1
5°	1917.4	1924.7	1927.3	1919.4	1907.5	1906.3	1895.1	1876.5	1859.4	1845.6	1835.7
7.5°	2062.4	2065.3	2058.8	2048.4	2039.5	2023.7	2002.9	1982.4	1953.8	1927.5	1908.0
10°	2172.1	2176.1	2164.9	2149.7	2137.2	2118.7	2088.4	2057.4	2019.7	1983.5	1954.4
12.5°	2255.6	2265.3	2250.9	2248.9	2227.5	2202.1	2165.9	2150.3	2097.3	2046.8	2015.7
15°	2356.9	2356.2	2357.6	2345.0	2329.2	2325.2	2287.0	2245.4	2170.8	2141.1	2089.6
17.5°	2327.6	2337.6	2342.3	2342.1	2341.7	2339.3	2326.9	2300.7	2263.3	2215.2	2155.8
20°	2258.0	2271.1	2273.1	2288.3	2296.9	2308.1	2312.7	2305.4	2282.3	2242.1	2190.6
22.5°	2150.3	2154.0	2160.2	2183.8	2202.4	2230.5	2245.1	2269.5	2260.7	2241.0	2198.0
25°	1963.7	1957.1	1980.1	1992.0	2034.9	2079.7	2112.1	2147.8	2179.4	2198.6	2186.0
27.5°	1739.6	1729.7	1764.3	1795.8	1830.7	1879.2	1929.6	1989.1	2038.6	2100.5	2121.8
30°	1550.6	1556.5	1589.5	1623.2	1675.9	1744.6	1801.3	1866.6	1937.2	2006.6	2054.7
32.5°	1346.9	1369.7	1390.5	1442.1	1488.6	1565.1	1648.2	1729.9	1818.0	1896.8	1971.3
35°	1068.9	1095.3	1124.4	1161.9	1227.3	1303.1	1384.3	1494.5	1614.6	1722.2	1810.6
37.5°	899.7	895.5	912.1	939.4	992.2	1053.5	1146.9	1255.8	1397.1	1523.5	1648.2
40°	798.4	795.7	807.6	832.7	873.0	917.8	999.6	1095.3	1226.6	1381.0	1529.5
42.5°	728.8	730.3	736.9	754.6	782.1	819.1	880.4	961.7	1082.0	1227.4	1387.0
45°	644.0	648.6	655.9	664.4	680.3	710.7	744.9	803.1	898.0	1019.4	1176.5
47.5°	583.0	583.2	590.6	598.1	607.4	624.6	652.6	689.0	756.0	854.9	989.9
50°	550.3	545.7	551.0	556.9	566.8	578.7	597.1	631.5	676.3	756.1	869.0
52.5°	510.1	510.3	515.1	517.3	526.2	538.0	554.9	578.7	619.3	681.7	774.5
55°	452.6	455.9	458.6	462.5	470.5	479.1	492.2	508.1	539.8	586.6	655.2
57.5°	398.6	399.6	402.3	409.7	414.7	422.7	435.2	449.6	470.2	504.9	556.5
60°	361.6	361.6	366.9	370.1	376.8	384.7	394.6	408.5	426.9	455.3	496.9
62.5°	327.8	327.3	329.4	334.8	339.8	347.2	357.1	368.9	386.2	411.5	445.7
65°	278.4	277.2	281.1	282.4	287.7	295.0	302.9	315.4	329.2	347.8	378.1
67.5°	230.9	232.6	234.6	237.1	240.0	247.7	253.0	261.8	273.5	288.9	309.4
70°	204.6	204.6	204.6	206.6	210.5	214.5	219.7	227.0	238.2	251.4	269.8
72.5°	175.0	177.1	179.2	178.1	183.0	185.4	191.7	195.9	206.6	215.0	231.4
75°	137.2	137.2	137.2	140.5	142.5	144.5	148.4	152.4	157.7	168.2	176.8
77.5°	102.4	102.1	102.8	103.6	105.7	108.1	109.3	112.8	117.7	122.6	129.8
80°	79.2	80.5	81.2	82.5	82.5	83.8	84.5	89.1	92.4	95.7	100.3
82.5°	61.2	61.5	61.6	61.9	62.4	63.2	64.9	66.4	67.6	70.3	73.9
85°	35.6	35.0	35.0	36.2	35.6	35.6	36.9	38.2	38.2	38.9	40.9
87.5°	15.8	15.8	16.3	15.8	15.8	16.2	16.1	15.7	16.3	16.9	17.3
90°	10.1	10.1	10.1	10.1	10.1	9.7	9.1	9.7	10.1	10.3	10.1
92.5°	16.9	17.3	17.1	18.1	18.3	20.2	22.7	26.5	33.4	39.5	39.0
95°	34.7	34.4	35.3	37.7	41.7	48.4	61.1	79.7	104.4	119.2	105.6
97.5°	68.3	70.9	75.3	82.7	97.3	119.2	152.1	186.0	213.5	203.5	153.3
100°	108.9	114.4	123.2	136.3	161.5	198.4	240.0	277.8	284.1	240.3	165.5
102.5°	191.7	199.1	210.1	232.4	259.8	298.9	329.3	337.9	310.4	241.5	160.8
105°	342.9	347.1	360.2	379.0	398.0	407.9	404.0	369.6	306.3	225.4	151.8
107.5°	438.0	443.6	446.3	447.3	444.9	430.2	398.6	346.7	279.7	208.1	147.3
110°	466.7	467.0	464.3	458.5	445.4	420.4	381.5	327.0	262.9	199.8	146.4



TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	466.1	464.5	459.3	449.7	431.5	402.9	361.3	309.0	251.2	194.5	146.5
115°	451.2	448.4	440.5	426.5	404.9	373.6	333.7	286.9	236.7	188.6	147.8
117.5°	424.3	422.0	413.7	398.9	376.9	347.5	311.3	270.2	227.6	185.7	150.1
120°	407.1	404.0	395.2	380.9	359.6	331.9	299.6	261.9	222.7	184.1	151.5
122.5°	389.0	386.5	378.7	364.5	345.4	320.5	289.9	255.4	218.5	183.0	153.2
125°	366.0	363.5	355.9	344.4	326.7	303.9	277.2	245.8	212.7	181.3	155.8
127.5°	345.8	343.8	337.3	326.4	311.0	290.0	264.8	236.3	207.2	180.3	158.3
130°	334.3	331.9	325.8	315.5	300.6	280.5	256.5	230.3	203.5	179.8	160.3
132.5°	322.4	320.2	314.6	304.3	289.6	270.8	248.7	224.5	200.6	179.5	162.3
135°	303.3	302.1	296.6	286.5	273.5	256.5	236.3	216.3	196.5	179.2	164.6
137.5°	284.6	282.8	277.9	269.3	257.4	242.5	226.6	209.8	193.6	179.1	166.7
140°	271.6	269.8	265.3	257.4	247.6	234.3	220.2	205.6	191.9	178.9	167.6
142.5°	258.7	258.4	254.3	247.1	237.9	226.7	214.6	202.2	190.3	178.9	168.3
145°	242.1	241.3	238.2	233.0	225.8	216.9	207.5	197.4	188.0	178.2	169.1
147.5°	228.3	227.6	225.6	221.4	215.4	209.0	201.6	193.7	185.7	177.2	169.4
150°	220.0	219.6	217.8	214.1	209.6	204.1	197.8	191.1	183.7	176.4	169.1
152.5°	212.9	212.8	211.5	208.4	204.7	200.0	194.6	188.4	182.0	175.2	168.7
155°	203.5	204.1	202.9	200.8	197.4	194.1	189.5	184.7	178.9	173.1	167.9
157.5°	195.5	195.5	195.0	193.2	190.9	188.2	184.4	180.4	175.9	170.9	166.5
160°	190.5	190.5	190.1	188.6	186.5	184.3	181.0	177.6	173.7	169.4	165.8
162.5°	185.5	185.8	185.5	184.5	182.4	180.7	177.9	175.0	171.8	168.2	165.1
165°	178.6	178.9	178.9	177.6	176.4	175.2	173.1	171.0	168.5	165.8	163.7
167.5°	172.1	172.5	172.5	171.9	171.3	170.2	168.8	167.1	165.4	163.7	162.3
170°	168.2	168.8	169.1	168.2	167.9	167.3	166.1	165.2	163.7	162.5	161.5
172.5°	165.1	165.4	165.7	165.3	165.0	164.6	163.7	163.0	162.0	161.0	160.6
175°	160.9	161.5	161.9	161.5	161.5	161.3	160.9	160.7	159.7	159.4	159.1
177.5°	158.4	158.9	159.2	159.2	159.2	159.2	158.9	158.9	158.4	158.2	158.4
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1761.8	1757.6	1754.9	1745.4	1736.9	1728.5	1725.9	1726.9	1715.3	1704.2	1699.4
5°	1830.4	1817.1	1804.7	1786.8	1765.7	1742.6	1730.7	1721.5	1698.4	1673.4	1658.8
7.5°	1891.9	1873.0	1848.8	1815.3	1784.6	1748.3	1725.2	1704.7	1670.9	1635.6	1613.9
10°	1929.3	1903.6	1872.6	1831.7	1794.1	1749.9	1718.8	1687.8	1648.2	1606.0	1579.6
12.5°	1961.5	1926.8	1896.4	1843.8	1799.3	1744.0	1707.3	1663.5	1621.9	1571.7	1545.8
15°	2038.2	1974.2	1916.2	1856.7	1802.0	1724.8	1683.9	1625.1	1570.4	1508.4	1478.7
17.5°	2097.5	2025.5	1934.1	1858.6	1794.8	1709.3	1649.2	1578.8	1514.1	1443.2	1402.8
20°	2131.2	2048.7	1950.4	1860.7	1784.2	1686.5	1621.2	1549.3	1473.4	1393.5	1350.0
22.5°	2151.3	2064.6	1967.4	1852.8	1763.1	1668.0	1585.8	1507.0	1430.1	1343.9	1298.3
25°	2157.7	2078.5	1975.6	1846.2	1736.6	1629.1	1530.2	1453.6	1360.6	1280.0	1213.4
27.5°	2126.2	2069.5	1970.5	1833.8	1706.2	1580.5	1470.1	1383.4	1285.2	1197.8	1130.8
30°	2087.7	2054.7	1958.3	1821.1	1681.9	1546.6	1425.2	1326.9	1229.2	1140.8	1072.2
32.5°	2028.1	2020.9	1936.2	1803.2	1656.0	1503.9	1378.3	1278.8	1170.7	1083.8	1018.4
35°	1910.9	1942.5	1889.1	1763.1	1607.3	1443.0	1307.1	1193.6	1081.5	998.3	936.9
37.5°	1753.9	1832.5	1818.5	1704.3	1541.6	1376.8	1226.8	1108.1	1001.3	917.3	857.1
40°	1645.6	1745.9	1760.4	1659.5	1495.2	1325.6	1166.6	1048.4	944.2	867.7	806.9
42.5°	1529.5	1646.7	1686.5	1605.6	1444.5	1271.8	1112.8	990.4	887.2	812.8	759.0
45°	1334.8	1489.9	1561.9	1515.6	1359.9	1183.1	1019.4	895.4	801.7	731.8	690.2
47.5°	1152.9	1322.3	1419.0	1402.7	1265.8	1090.7	928.9	809.9	718.7	662.9	625.7
50°	1024.1	1198.3	1315.0	1320.3	1198.3	1024.7	862.4	750.2	666.4	614.3	583.9
52.5°	912.1	1078.4	1205.7	1233.7	1122.7	956.1	802.7	691.1	617.3	569.5	542.3
55°	766.0	906.6	1047.8	1099.2	1010.2	851.9	710.0	611.7	542.3	509.4	485.6
57.5°	636.9	754.1	884.4	941.3	886.4	750.9	617.9	532.4	476.3	447.4	429.1
60°	568.8	661.2	777.3	845.2	797.7	677.0	560.9	479.7	433.5	407.8	390.6
62.5°	505.4	587.3	685.4	747.6	721.7	607.9	503.9	432.2	392.4	368.2	355.8
65°	417.0	481.6	557.6	614.9	597.8	511.3	426.3	364.9	333.2	314.1	304.2
67.5°	343.4	390.1	442.7	493.0	479.1	417.9	349.6	301.8	278.2	261.7	255.7
70°	297.0	332.5	379.4	419.7	408.5	358.3	304.2	263.3	242.8	228.9	223.0
72.5°	252.6	281.9	317.6	350.5	342.9	301.3	256.1	225.2	209.6	196.7	191.9
75°	190.7	213.1	234.9	256.7	254.7	222.4	196.0	172.2	159.7	149.8	147.8
77.5°	140.8	153.3	168.2	181.1	177.5	159.0	138.3	124.7	115.5	108.8	107.8
80°	107.5	114.8	125.4	134.6	130.0	122.1	105.6	95.7	89.1	82.5	79.8
82.5°	78.0	85.2	91.6	96.6	93.1	85.7	75.5	68.8	64.8	60.3	59.2
85°	40.9	44.9	47.5	48.8	47.5	42.9	38.2	35.6	32.4	30.4	29.7
87.5°	17.5	17.0	16.8	17.7	15.9	15.8	13.4	11.7	11.4	11.0	10.1
90°	8.2	6.1	4.6	3.6	3.0	2.4	1.2	0.3	1.2	2.4	3.0
92.5°	30.4	20.7	13.8	10.9	8.9	7.6	5.3	3.7	5.3	7.6	8.9
95°	70.3	43.8	29.8	22.5	17.7	14.9	11.9	10.7	11.9	14.9	17.7
97.5°	94.7	57.8	40.2	31.9	26.3	22.2	18.9	17.3	18.9	22.2	26.3
100°	99.8	62.7	46.6	38.1	31.9	27.0	24.4	23.4	24.4	27.0	31.9
102.5°	100.0	67.1	52.2	43.7	37.3	32.5	29.7	29.0	29.7	32.5	37.3
105°	101.6	74.6	60.3	51.7	45.0	40.5	38.3	37.1	38.3	40.5	45.0
107.5°	105.8	82.2	68.4	59.8	53.1	48.9	46.8	45.9	46.8	48.9	53.1
110°	109.2	87.3	74.0	65.1	58.7	54.8	53.0	51.7	53.0	54.8	58.7





TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	112.9	92.2	79.3	70.2	64.1	60.4	58.3	57.1	58.3	60.4	64.1
115°	118.3	99.8	86.7	78.5	72.4	68.8	66.9	65.4	66.9	68.8	72.4
117.5°	124.2	106.8	94.7	86.2	80.3	77.1	75.3	74.0	75.3	77.1	80.3
120°	128.1	111.7	99.8	91.3	85.2	82.5	80.6	79.4	80.6	82.5	85.2
122.5°	131.5	116.2	105.1	96.3	90.3	87.3	85.5	84.6	85.5	87.3	90.3
125°	136.9	123.2	112.3	103.8	97.6	94.0	92.2	91.3	92.2	94.0	97.6
127.5°	142.0	129.7	119.0	110.2	104.4	100.4	97.8	96.6	97.8	100.4	104.4
130°	145.1	133.5	122.9	114.4	108.3	104.0	101.0	99.8	101.0	104.0	108.3
132.5°	148.3	137.0	126.8	118.3	111.9	107.5	104.2	102.7	104.2	107.5	111.9
135°	152.4	141.8	132.0	123.6	116.5	111.9	108.3	107.1	108.3	111.9	116.5
137.5°	155.6	145.7	136.0	128.1	121.2	116.3	112.7	111.2	112.7	116.3	121.2
140°	157.3	147.8	138.7	130.8	124.2	119.2	115.6	114.4	115.6	119.2	124.2
142.5°	158.8	149.6	140.7	133.3	126.8	121.9	118.6	117.5	118.6	121.9	126.8
145°	160.7	152.1	143.9	137.2	131.1	126.6	123.6	122.3	123.6	126.6	131.1
147.5°	161.7	154.2	146.5	140.5	135.4	131.2	128.3	127.4	128.3	131.2	135.4
150°	162.1	155.2	148.2	142.7	138.1	134.1	131.7	130.8	131.7	134.1	138.1
152.5°	162.4	156.1	149.8	144.9	140.5	137.1	134.7	134.2	134.7	137.1	140.5
155°	162.7	157.6	152.4	147.8	144.5	141.1	139.3	139.1	139.3	141.1	144.5
157.5°	162.7	158.6	154.2	150.4	147.7	144.8	143.4	143.0	143.4	144.8	147.7
160°	162.7	159.1	155.5	152.1	149.6	147.2	146.0	145.7	146.0	147.2	149.6
162.5°	162.5	159.4	156.2	153.6	151.4	149.5	148.2	148.4	148.2	149.5	151.4
165°	161.9	159.7	157.0	155.2	153.6	151.8	151.2	151.5	151.2	151.8	153.6
167.5°	161.4	159.6	157.6	156.5	155.4	154.2	153.7	154.0	153.7	154.2	155.4
170°	160.9	159.4	157.9	157.0	156.4	155.5	155.2	155.8	155.2	155.5	156.4
172.5°	160.2	159.2	158.2	157.5	157.1	156.2	156.4	156.7	156.4	156.2	157.1
175°	159.4	158.8	158.2	157.9	157.9	157.3	157.6	157.9	157.6	157.3	157.9
177.5°	158.9	158.4	158.2	158.2	158.2	157.7	157.9	158.4	157.9	157.7	158.2
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1694.2	1691.0	1679.9	1674.1	1664.7	1655.6	1649.8	1652.5	1654.6	1653.6	1651.9
5°	1645.6	1633.1	1613.9	1597.4	1585.5	1563.8	1554.5	1550.0	1546.0	1541.4	1536.7
7.5°	1587.8	1568.1	1540.6	1517.1	1494.9	1467.8	1452.4	1443.2	1433.7	1423.2	1414.0
10°	1546.6	1518.9	1489.9	1456.9	1430.6	1406.1	1384.3	1369.8	1356.6	1344.1	1334.8
12.5°	1503.4	1471.4	1435.5	1390.4	1361.3	1326.4	1323.1	1297.5	1276.9	1269.1	1258.3
15°	1434.4	1389.6	1344.1	1290.6	1267.6	1235.9	1216.1	1196.3	1178.5	1165.9	1162.6
17.5°	1356.2	1298.1	1252.8	1214.4	1176.6	1144.2	1125.9	1110.1	1095.5	1078.7	1076.4
20°	1296.6	1246.4	1197.0	1163.3	1124.4	1091.3	1068.9	1053.1	1040.5	1030.6	1022.1
22.5°	1240.1	1185.2	1139.9	1103.1	1064.7	1038.0	1020.4	1005.0	994.6	983.7	975.6
25°	1149.4	1106.6	1057.0	1015.5	983.8	966.6	952.1	938.9	932.4	925.1	915.8
27.5°	1070.1	1022.4	976.1	943.9	916.1	901.0	890.6	881.7	875.5	871.2	866.0
30°	1014.2	966.0	929.7	898.0	874.9	859.8	853.2	847.9	840.6	838.0	835.3
32.5°	960.3	916.9	885.9	858.4	836.4	826.5	820.4	815.7	810.0	807.4	802.1
35°	884.2	847.9	817.5	802.4	784.5	775.9	771.4	764.7	759.5	756.8	756.1
37.5°	812.5	781.0	761.0	741.5	734.0	728.8	722.4	717.9	716.4	715.9	715.2
40°	766.0	740.3	722.6	706.7	703.4	695.4	690.2	686.2	686.2	686.9	686.2
42.5°	723.8	700.8	685.0	671.3	667.4	662.7	657.5	657.2	658.2	660.5	658.2
45°	659.9	643.3	632.1	625.5	618.3	613.6	612.9	614.9	615.6	616.3	618.3
47.5°	601.0	590.0	579.9	572.6	569.5	568.6	567.8	571.3	574.5	575.7	578.7
50°	566.1	553.6	545.0	540.4	537.8	536.4	537.8	541.7	544.3	547.7	549.7
52.5°	527.1	518.2	512.3	508.8	507.6	508.5	508.8	513.2	517.5	518.7	519.5
55°	473.1	466.5	465.2	459.3	461.8	461.2	464.5	467.2	471.1	475.1	475.7
57.5°	419.2	414.0	410.4	411.0	411.7	414.7	417.4	422.1	426.3	430.5	430.8
60°	383.4	380.7	378.8	378.8	380.0	384.0	387.3	391.9	394.6	397.2	399.2
62.5°	350.6	348.0	346.0	347.1	350.5	352.8	356.7	359.2	361.9	364.5	365.4
65°	298.9	297.6	299.5	300.9	301.5	304.9	309.4	311.4	314.1	315.4	320.0
67.5°	251.2	251.5	251.2	253.1	256.9	257.7	262.1	266.7	267.3	269.8	272.8
70°	219.0	220.4	221.7	223.0	226.4	227.6	230.9	232.9	235.6	237.5	239.5
72.5°	189.5	189.8	191.1	190.8	193.6	196.5	199.2	201.2	203.9	206.4	208.4
75°	145.9	145.9	147.1	147.8	151.1	154.4	153.8	155.1	157.7	160.3	161.7
77.5°	106.5	105.0	106.5	107.2	108.2	111.0	111.5	113.4	116.4	115.5	116.9
80°	81.2	79.2	81.2	81.8	81.8	85.2	85.2	86.4	88.4	86.4	88.4
82.5°	57.9	57.0	58.5	58.6	59.7	59.8	60.9	61.1	63.1	62.2	63.1
85°	29.0	28.4	29.0	28.4	29.0	29.7	29.7	29.0	29.0	30.4	28.4
87.5°	9.7	9.4	9.1	9.6	9.4	9.0	8.4	8.3	8.2	7.2	7.3
90°	3.6	4.6	6.1	8.2	10.1	10.3	10.1	9.7	9.1	9.7	10.1
92.5°	10.9	13.8	20.7	30.4	39.0	39.5	33.4	26.5	22.7	20.2	18.3
95°	22.5	29.8	43.8	70.3	105.6	119.2	104.4	79.7	61.1	48.4	41.7
97.5°	31.9	40.2	57.8	94.7	153.3	203.5	213.5	186.0	152.1	119.2	97.3
100°	38.1	46.6	62.7	99.8	165.5	240.3	284.1	277.8	240.0	198.4	161.5
102.5°	43.7	52.2	67.1	100.0	160.8	241.5	310.4	337.9	329.3	298.9	259.8
105°	51.7	60.3	74.6	101.6	151.8	225.4	306.3	369.6	404.0	407.9	398.0
107.5°	59.8	68.4	82.2	105.8	147.3	208.1	279.7	346.7	398.6	430.2	444.9
110°	65.1	74.0	87.3	109.2	146.4	199.8	262.9	327.0	381.5	420.4	445.4



TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	70.2	79.3	92.2	112.9	146.5	194.5	251.2	309.0	361.3	402.9	431.5
115°	78.5	86.7	99.8	118.3	147.8	188.6	236.7	286.9	333.7	373.6	404.9
117.5°	86.2	94.7	106.8	124.2	150.1	185.7	227.6	270.2	311.3	347.5	376.9
120°	91.3	99.8	111.7	128.1	151.5	184.1	222.7	261.9	299.6	331.9	359.6
122.5°	96.3	105.1	116.2	131.5	153.2	183.0	218.5	255.4	289.9	320.5	345.4
125°	103.8	112.3	123.2	136.9	155.8	181.3	212.7	245.8	277.2	303.9	326.7
127.5°	110.2	119.0	129.7	142.0	158.3	180.3	207.2	236.3	264.8	290.0	311.0
130°	114.4	122.9	133.5	145.1	160.3	179.8	203.5	230.3	256.5	280.5	300.6
132.5°	118.3	126.8	137.0	148.3	162.3	179.5	200.6	224.5	248.7	270.8	289.6
135°	123.6	132.0	141.8	152.4	164.6	179.2	196.5	216.3	236.3	256.5	273.5
137.5°	128.1	136.0	145.7	155.6	166.7	179.1	193.6	209.8	226.6	242.5	257.4
140°	130.8	138.7	147.8	157.3	167.6	178.9	191.9	205.6	220.2	234.3	247.6
142.5°	133.3	140.7	149.6	158.8	168.3	178.9	190.3	202.2	214.6	226.7	237.9
145°	137.2	143.9	152.1	160.7	169.1	178.2	188.0	197.4	207.5	216.9	225.8
147.5°	140.5	146.5	154.2	161.7	169.4	177.2	185.7	193.7	201.6	209.0	215.4
150°	142.7	148.2	155.2	162.1	169.1	176.4	183.7	191.1	197.8	204.1	209.6
152.5°	144.9	149.8	156.1	162.4	168.7	175.2	182.0	188.4	194.6	200.0	204.7
155°	147.8	152.4	157.6	162.7	167.9	173.1	178.9	184.7	189.5	194.1	197.4
157.5°	150.4	154.2	158.6	162.7	166.5	170.9	175.9	180.4	184.4	188.2	190.9
160°	152.1	155.5	159.1	162.7	165.8	169.4	173.7	177.6	181.0	184.3	186.5
162.5°	153.6	156.2	159.4	162.5	165.1	168.2	171.8	175.0	177.9	180.7	182.4
165°	155.2	157.0	159.7	161.9	163.7	165.8	168.5	171.0	173.1	175.2	176.4
167.5°	156.5	157.6	159.6	161.4	162.3	163.7	165.4	167.1	168.8	170.2	171.3
170°	157.0	157.9	159.4	160.9	161.5	162.5	163.7	165.2	166.1	167.3	167.9
172.5°	157.5	158.2	159.2	160.2	160.6	161.0	162.0	163.0	163.7	164.6	165.0
175°	157.9	158.2	158.8	159.4	159.1	159.4	159.7	160.7	160.9	161.3	161.5
177.5°	158.2	158.2	158.4	158.9	158.4	158.2	158.4	158.9	158.9	159.2	159.2
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1646.7	1645.6	1645.6	1640.9	1645.6	1645.6	1646.7	1651.9	1653.6	1654.6	1652.5
5°	1527.5	1525.5	1522.2	1525.5	1522.2	1525.5	1527.5	1536.7	1541.4	1546.0	1550.0
7.5°	1409.6	1401.7	1400.6	1392.8	1400.6	1401.7	1409.6	1414.0	1423.2	1433.7	1443.2
10°	1323.6	1318.4	1317.7	1305.1	1317.7	1318.4	1323.6	1334.8	1344.1	1356.6	1369.8
12.5°	1258.2	1245.5	1248.0	1240.7	1248.0	1245.5	1258.2	1258.3	1269.1	1276.9	1297.5
15°	1144.8	1144.8	1142.2	1130.9	1142.2	1144.8	1144.8	1162.6	1165.9	1178.5	1196.3
17.5°	1063.4	1062.0	1055.8	1058.9	1055.8	1062.0	1063.4	1076.4	1078.7	1095.5	1110.1
20°	1014.8	1010.9	1003.0	1003.0	1003.0	1010.9	1014.8	1022.1	1030.6	1040.5	1053.1
22.5°	968.9	968.6	960.2	962.9	960.2	968.6	968.9	975.6	983.7	994.6	1005.0
25°	915.2	909.9	905.9	907.9	905.9	909.9	915.2	915.8	925.1	932.4	938.9
27.5°	864.3	861.3	861.1	855.7	861.1	861.3	864.3	866.0	871.2	875.5	881.7
30°	834.7	828.1	829.4	826.1	829.4	828.1	834.7	835.3	838.0	840.6	847.9
32.5°	800.9	798.5	797.2	794.4	797.2	798.5	800.9	802.1	807.4	810.0	815.7
35°	754.8	755.5	752.2	753.5	752.2	755.5	754.8	756.1	756.8	759.5	764.7
37.5°	714.6	716.7	715.1	715.5	715.1	716.7	714.6	715.2	715.9	716.4	717.9
40°	688.2	688.2	688.2	690.2	688.2	688.2	688.2	686.2	686.9	686.2	686.2
42.5°	662.9	661.9	660.7	660.6	660.7	661.9	662.9	658.2	660.5	658.2	657.2
45°	619.6	621.6	622.2	618.9	622.2	621.6	619.6	618.3	616.3	615.6	614.9
47.5°	580.4	580.7	580.4	583.3	580.4	580.7	580.4	578.7	575.7	574.5	571.3
50°	552.9	551.6	552.9	551.6	552.9	551.6	552.9	549.7	547.7	544.3	541.7
52.5°	523.9	524.2	523.4	523.1	523.4	524.2	523.9	519.5	518.7	517.5	513.2
55°	478.4	479.7	479.1	479.1	479.1	479.7	478.4	475.7	475.1	471.1	467.2
57.5°	431.3	432.5	433.3	430.5	433.3	432.5	431.3	430.8	430.5	426.3	422.1
60°	398.6	401.8	401.1	399.8	401.1	401.8	398.6	399.2	397.2	394.6	391.9
62.5°	368.4	369.6	369.5	369.3	369.5	369.6	368.4	365.4	364.5	361.9	359.2
65°	322.0	323.3	321.3	323.3	321.3	323.3	322.0	320.0	315.4	314.1	311.4
67.5°	272.0	272.4	273.8	274.7	273.8	272.4	272.0	272.8	269.8	267.3	266.7
70°	240.8	240.2	242.2	244.2	242.2	240.2	240.8	239.5	237.5	235.6	232.9
72.5°	208.1	209.6	208.9	210.3	208.9	209.6	208.1	208.4	206.4	203.9	201.2
75°	160.3	162.3	161.7	163.7	161.7	162.3	160.3	161.7	160.3	157.7	155.1
77.5°	115.9	116.1	115.9	116.9	115.9	116.1	115.9	116.9	115.5	116.4	113.4
80°	88.4	87.1	85.8	88.4	85.8	87.1	88.4	88.4	86.4	88.4	86.4
82.5°	61.5	62.3	61.0	61.0	61.0	62.3	61.5	63.1	62.2	63.1	61.1
85°	28.4	27.7	26.4	26.4	26.4	27.7	28.4	28.4	30.4	29.0	29.0
87.5°	7.3	6.7	6.7	6.2	6.7	6.7	7.3	7.3	7.2	8.2	8.3
90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	9.7	9.1	9.7
92.5°	18.1	17.1	17.3	16.9	17.3	17.1	18.1	18.3	20.2	22.7	26.5
95°	37.7	35.3	34.4	34.7	34.4	35.3	37.7	41.7	48.4	61.1	79.7
97.5°	82.7	75.3	70.9	68.3	70.9	75.3	82.7	97.3	119.2	152.1	186.0
100°	136.3	123.2	114.4	108.9	114.4	123.2	136.3	161.5	198.4	240.0	277.8
102.5°	232.4	210.1	199.1	191.7	199.1	210.1	232.4	259.8	298.9	329.3	337.9
105°	379.0	360.2	347.1	342.9	347.1	360.2	379.0	398.0	407.9	404.0	369.6
107.5°	447.3	446.3	443.6	438.0	443.6	446.3	447.3	444.9	430.2	398.6	346.7
110°	458.5	464.3	467.0	466.7	467.0	464.3	458.5	445.4	420.4	381.5	327.0



TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	449.7	459.3	464.5	466.1	464.5	459.3	449.7	431.5	402.9	361.3	309.0
115°	426.5	440.5	448.4	451.2	448.4	440.5	426.5	404.9	373.6	333.7	286.9
117.5°	398.9	413.7	422.0	424.3	422.0	413.7	398.9	376.9	347.5	311.3	270.2
120°	380.9	395.2	404.0	407.1	404.0	395.2	380.9	359.6	331.9	299.6	261.9
122.5°	364.5	378.7	386.5	389.0	386.5	378.7	364.5	345.4	320.5	289.9	255.4
125°	344.4	355.9	363.5	366.0	363.5	355.9	344.4	326.7	303.9	277.2	245.8
127.5°	326.4	337.3	343.8	345.8	343.8	337.3	326.4	311.0	290.0	264.8	236.3
130°	315.5	325.8	331.9	334.3	331.9	325.8	315.5	300.6	280.5	256.5	230.3
132.5°	304.3	314.6	320.2	322.4	320.2	314.6	304.3	289.6	270.8	248.7	224.5
135°	286.5	296.6	302.1	303.3	302.1	296.6	286.5	273.5	256.5	236.3	216.3
137.5°	269.3	277.9	282.8	284.6	282.8	277.9	269.3	257.4	242.5	226.6	209.8
140°	257.4	265.3	269.8	271.6	269.8	265.3	257.4	247.6	234.3	220.2	205.6
142.5°	247.1	254.3	258.4	258.7	258.4	254.3	247.1	237.9	226.7	214.6	202.2
145°	233.0	238.2	241.3	242.1	241.3	238.2	233.0	225.8	216.9	207.5	197.4
147.5°	221.4	225.6	227.6	228.3	227.6	225.6	221.4	215.4	209.0	201.6	193.7
150°	214.1	217.8	219.6	220.0	219.6	217.8	214.1	209.6	204.1	197.8	191.1
152.5°	208.4	211.5	212.8	212.9	212.8	211.5	208.4	204.7	200.0	194.6	188.4
155°	200.8	202.9	204.1	203.5	204.1	202.9	200.8	197.4	194.1	189.5	184.7
157.5°	193.2	195.0	195.5	195.5	195.5	195.0	193.2	190.9	188.2	184.4	180.4
160°	188.6	190.1	190.5	190.5	190.5	190.1	188.6	186.5	184.3	181.0	177.6
162.5°	184.5	185.5	185.8	185.5	185.8	185.5	184.5	182.4	180.7	177.9	175.0
165°	177.6	178.9	178.9	178.6	178.9	178.9	177.6	176.4	175.2	173.1	171.0
167.5°	171.9	172.5	172.5	172.1	172.5	172.5	171.9	171.3	170.2	168.8	167.1
170°	168.2	169.1	168.8	168.2	168.8	169.1	168.2	167.9	167.3	166.1	165.2
172.5°	165.3	165.7	165.4	165.1	165.4	165.7	165.3	165.0	164.6	163.7	163.0
175°	161.5	161.9	161.5	160.9	161.5	161.9	161.5	161.5	161.3	160.9	160.7
177.5°	159.2	159.2	158.9	158.4	158.9	159.2	159.2	159.2	159.2	158.9	158.9
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1649.8	1655.6	1664.7	1674.1	1679.9	1691.0	1694.2	1699.4	1704.2	1715.3	1726.9
5°	1554.5	1563.8	1585.5	1597.4	1613.9	1633.1	1645.6	1658.8	1673.4	1698.4	1721.5
7.5°	1452.4	1467.8	1494.9	1517.1	1540.6	1568.1	1587.8	1613.9	1635.6	1670.9	1704.7
10°	1384.3	1406.1	1430.6	1456.9	1489.9	1518.9	1546.6	1579.6	1606.0	1648.2	1687.8
12.5°	1323.1	1326.4	1361.3	1390.4	1435.5	1471.4	1503.4	1545.8	1571.7	1621.9	1663.5
15°	1216.1	1235.9	1267.6	1290.6	1344.1	1389.6	1434.4	1478.7	1508.4	1570.4	1625.1
17.5°	1125.9	1144.2	1176.6	1214.4	1252.8	1298.1	1356.2	1402.8	1443.2	1514.1	1578.8
20°	1068.9	1091.3	1124.4	1163.3	1197.0	1246.4	1296.6	1350.0	1393.5	1473.4	1549.3
22.5°	1020.4	1038.0	1064.7	1103.1	1139.9	1185.2	1240.1	1298.3	1343.9	1430.1	1507.0
25°	952.1	966.6	983.8	1015.5	1057.0	1106.6	1149.4	1213.4	1280.0	1360.6	1453.6
27.5°	890.6	901.0	916.1	943.9	976.1	1022.4	1070.1	1130.8	1197.8	1285.2	1383.4
30°	853.2	859.8	874.9	898.0	929.7	966.0	1014.2	1072.2	1140.8	1229.2	1326.9
32.5°	820.4	826.5	836.4	858.4	885.9	916.9	960.3	1018.4	1083.8	1170.7	1278.8
35°	771.4	775.9	784.5	802.4	817.5	847.9	884.2	936.9	998.3	1081.5	1193.6
37.5°	722.4	728.8	734.0	741.5	761.0	781.0	812.5	857.1	917.3	1001.3	1108.1
40°	690.2	695.4	703.4	706.7	722.6	740.3	766.0	806.9	867.7	944.2	1048.4
42.5°	657.5	662.7	667.4	671.3	685.0	700.8	723.8	759.0	812.8	887.2	990.4
45°	612.9	613.6	618.3	625.5	632.1	643.3	659.9	690.2	731.8	801.7	895.4
47.5°	567.8	568.6	569.5	572.6	579.9	590.0	601.0	625.7	662.9	718.7	809.9
50°	537.8	536.4	537.8	540.4	545.0	553.6	566.1	583.9	614.3	666.4	750.2
52.5°	508.8	508.5	507.6	508.8	512.3	518.2	527.1	542.3	569.5	617.3	691.1
55°	464.5	461.2	461.8	459.3	465.2	466.5	473.1	485.6	509.4	542.3	611.7
57.5°	417.4	414.7	411.7	411.0	410.4	414.0	419.2	429.1	447.4	476.3	532.4
60°	387.3	384.0	380.0	378.8	378.8	380.7	383.4	390.6	407.8	433.5	479.7
62.5°	356.7	352.8	350.5	347.1	346.0	348.0	350.6	355.8	368.2	392.4	432.2
65°	309.4	304.9	301.5	300.9	299.5	297.6	298.9	304.2	314.1	333.2	364.9
67.5°	262.1	257.7	256.9	253.1	251.2	251.5	251.2	255.7	261.7	278.2	301.8
70°	230.9	227.6	226.4	223.0	221.7	220.4	219.0	223.0	228.9	242.8	263.3
72.5°	199.2	196.5	193.6	190.8	191.1	189.8	189.5	191.9	196.7	209.6	225.2
75°	153.8	154.4	151.1	147.8	147.1	145.9	145.9	147.8	149.8	159.7	172.2
77.5°	111.5	111.0	108.2	107.2	106.5	105.0	106.5	107.8	108.8	115.5	124.7
80°	85.2	85.2	81.8	81.8	81.2	79.2	81.2	79.8	82.5	89.1	95.7
82.5°	60.9	59.8	59.7	58.6	58.5	57.0	57.9	59.2	60.3	64.8	68.8
85°	29.7	29.7	29.0	28.4	29.0	28.4	29.0	29.7	30.4	32.4	35.6
87.5°	8.4	9.0	9.4	9.6	9.1	9.4	9.7	10.1	11.0	11.4	11.7
90°	10.1	10.3	10.1	8.2	6.1	4.6	3.6	3.0	2.4	1.2	0.3
92.5°	33.4	39.5	39.0	30.4	20.7	13.8	10.9	8.9	7.6	5.3	3.7
95°	104.4	119.2	105.6	70.3	43.8	29.8	22.5	17.7	14.9	11.9	10.7
97.5°	213.5	203.5	153.3	94.7	57.8	40.2	31.9	26.3	22.2	18.9	17.3
100°	284.1	240.3	165.5	99.8	62.7	46.6	38.1	31.9	27.0	24.4	23.4
102.5°	310.4	241.5	160.8	100.0	67.1	52.2	43.7	37.3	32.5	29.7	29.0
105°	306.3	225.4	151.8	101.6	74.6	60.3	51.7	45.0	40.5	38.3	37.1
107.5°	279.7	208.1	147.3	105.8	82.2	68.4	59.8	53.1	48.9	46.8	45.9
110°	262.9	199.8	146.4	109.2	87.3	74.0	65.1	58.7	54.8	53.0	51.7



TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	251.2	194.5	146.5	112.9	92.2	79.3	70.2	64.1	60.4	58.3	57.1
115°	236.7	188.6	147.8	118.3	99.8	86.7	78.5	72.4	68.8	66.9	65.4
117.5°	227.6	185.7	150.1	124.2	106.8	94.7	86.2	80.3	77.1	75.3	74.0
120°	222.7	184.1	151.5	128.1	111.7	99.8	91.3	85.2	82.5	80.6	79.4
122.5°	218.5	183.0	153.2	131.5	116.2	105.1	96.3	90.3	87.3	85.5	84.6
125°	212.7	181.3	155.8	136.9	123.2	112.3	103.8	97.6	94.0	92.2	91.3
127.5°	207.2	180.3	158.3	142.0	129.7	119.0	110.2	104.4	100.4	97.8	96.6
130°	203.5	179.8	160.3	145.1	133.5	122.9	114.4	108.3	104.0	101.0	99.8
132.5°	200.6	179.5	162.3	148.3	137.0	126.8	118.3	111.9	107.5	104.2	102.7
135°	196.5	179.2	164.6	152.4	141.8	132.0	123.6	116.5	111.9	108.3	107.1
137.5°	193.6	179.1	166.7	155.6	145.7	136.0	128.1	121.2	116.3	112.7	111.2
140°	191.9	178.9	167.6	157.3	147.8	138.7	130.8	124.2	119.2	115.6	114.4
142.5°	190.3	178.9	168.3	158.8	149.6	140.7	133.3	126.8	121.9	118.6	117.5
145°	188.0	178.2	169.1	160.7	152.1	143.9	137.2	131.1	126.6	123.6	122.3
147.5°	185.7	177.2	169.4	161.7	154.2	146.5	140.5	135.4	131.2	128.3	127.4
150°	183.7	176.4	169.1	162.1	155.2	148.2	142.7	138.1	134.1	131.7	130.8
152.5°	182.0	175.2	168.7	162.4	156.1	149.8	144.9	140.5	137.1	134.7	134.2
155°	178.9	173.1	167.9	162.7	157.6	152.4	147.8	144.5	141.1	139.3	139.1
157.5°	175.9	170.9	166.5	162.7	158.6	154.2	150.4	147.7	144.8	143.4	143.0
160°	173.7	169.4	165.8	162.7	159.1	155.5	152.1	149.6	147.2	146.0	145.7
162.5°	171.8	168.2	165.1	162.5	159.4	156.2	153.6	151.4	149.5	148.2	148.4
165°	168.5	165.8	163.7	161.9	159.7	157.0	155.2	153.6	151.8	151.2	151.5
167.5°	165.4	163.7	162.3	161.4	159.6	157.6	156.5	155.4	154.2	153.7	154.0
170°	163.7	162.5	161.5	160.9	159.4	157.9	157.0	156.4	155.5	155.2	155.8
172.5°	162.0	161.0	160.6	160.2	159.2	158.2	157.5	157.1	156.2	156.4	156.7
175°	159.7	159.4	159.1	159.4	158.8	158.2	157.9	157.9	157.3	157.6	157.9
177.5°	158.4	158.2	158.4	158.9	158.4	158.2	158.2	158.2	157.7	157.9	158.4
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1725.9	1728.5	1736.9	1745.4	1754.9	1757.6	1761.8	1758.1	1757.0	1767.0	1774.4
5°	1730.7	1742.6	1765.7	1786.8	1804.7	1817.1	1830.4	1835.7	1845.6	1859.4	1876.5
7.5°	1725.2	1748.3	1784.6	1815.3	1848.8	1873.0	1891.9	1908.0	1927.5	1953.8	1982.4
10°	1718.8	1749.9	1794.1	1831.7	1872.6	1903.6	1929.3	1954.4	1983.5	2019.7	2057.4
12.5°	1707.3	1744.0	1799.3	1843.8	1896.4	1926.8	1961.5	2015.7	2046.8	2097.3	2150.3
15°	1683.9	1724.8	1802.0	1856.7	1916.2	1974.2	2038.2	2089.6	2141.1	2170.8	2245.4
17.5°	1649.2	1709.3	1794.8	1858.6	1934.1	2025.5	2097.5	2155.8	2215.2	2263.3	2300.7
20°	1621.2	1686.5	1784.2	1860.7	1950.4	2048.7	2131.2	2190.6	2242.1	2282.3	2305.4
22.5°	1585.8	1668.0	1763.1	1852.8	1967.4	2064.6	2151.3	2198.0	2241.0	2260.7	2269.5
25°	1530.2	1629.1	1736.6	1846.2	1975.6	2078.5	2157.7	2186.0	2198.6	2179.4	2147.8
27.5°	1470.1	1580.5	1706.2	1833.8	1970.5	2069.5	2126.2	2121.8	2100.5	2038.6	1989.1
30°	1425.2	1546.6	1681.9	1821.1	1958.3	2054.7	2087.7	2054.7	2006.6	1937.2	1866.6
32.5°	1378.3	1503.9	1656.0	1803.2	1936.2	2020.9	2028.1	1971.3	1896.8	1818.0	1729.9
35°	1307.1	1443.0	1607.3	1763.1	1889.1	1942.5	1910.9	1810.6	1722.2	1614.6	1494.5
37.5°	1226.8	1376.8	1541.6	1704.3	1818.5	1832.5	1753.9	1648.2	1523.5	1397.1	1255.8
40°	1166.6	1325.6	1495.2	1659.5	1760.4	1745.9	1645.6	1529.5	1381.0	1226.6	1095.3
42.5°	1112.8	1271.8	1444.5	1605.6	1686.5	1646.7	1529.5	1387.0	1227.4	1082.0	961.7
45°	1019.4	1183.1	1359.9	1515.6	1561.9	1489.9	1334.8	1176.5	1019.4	898.0	803.1
47.5°	928.9	1090.7	1265.8	1402.7	1419.0	1322.3	1152.9	989.9	854.9	756.0	689.0
50°	862.4	1024.7	1198.3	1320.3	1315.0	1198.3	1024.1	869.0	756.1	676.3	631.5
52.5°	802.7	956.1	1122.7	1233.7	1205.7	1078.4	912.1	774.5	681.7	619.3	578.7
55°	710.0	851.9	1010.2	1099.2	1047.8	906.6	766.0	655.2	586.6	539.8	508.1
57.5°	617.9	750.9	886.4	941.3	884.4	754.1	636.9	556.5	504.9	470.2	449.6
60°	560.9	677.0	797.7	845.2	777.3	661.2	568.8	496.9	455.3	426.9	408.5
62.5°	503.9	607.9	721.7	747.6	685.4	587.3	505.4	445.7	411.5	386.2	368.9
65°	426.3	511.3	597.8	614.9	557.6	481.6	417.0	378.1	347.8	329.2	315.4
67.5°	349.6	417.9	479.1	493.0	442.7	390.1	343.4	309.4	288.9	273.5	261.8
70°	304.2	358.3	408.5	419.7	379.4	332.5	297.0	269.8	251.4	238.2	227.0
72.5°	256.1	301.3	342.9	350.5	317.6	281.9	252.6	231.4	215.0	206.6	195.9
75°	196.0	222.4	254.7	256.7	234.9	213.1	190.7	176.8	168.2	157.7	152.4
77.5°	138.3	159.0	177.5	181.1	168.2	153.3	140.8	129.8	122.6	117.7	112.8
80°	105.6	122.1	130.0	134.6	125.4	114.8	107.5	100.3	95.7	92.4	89.1
82.5°	75.5	85.7	93.1	96.6	91.6	85.2	78.0	73.9	70.3	67.6	66.4
85°	38.2	42.9	47.5	48.8	47.5	44.9	40.9	40.9	38.9	38.2	38.2
87.5°	13.4	15.8	15.9	17.7	16.8	17.0	17.5	17.3	16.9	16.3	15.7
90°	1.2	2.4	3.0	3.6	4.6	6.1	8.2	10.1	10.3	10.1	9.7
92.5°	5.3	7.6	8.9	10.9	13.8	20.7	30.4	39.0	39.5	33.4	26.5
95°	11.9	14.9	17.7	22.5	29.8	43.8	70.3	105.6	119.2	104.4	79.7
97.5°	18.9	22.2	26.3	31.9	40.2	57.8	94.7	153.3	203.5	213.5	186.0
100°	24.4	27.0	31.9	38.1	46.6	62.7	99.8	165.5	240.3	284.1	277.8
102.5°	29.7	32.5	37.3	43.7	52.2	67.1	100.0	160.8	241.5	310.4	337.9
105°	38.3	40.5	45.0	51.7	60.3	74.6	101.6	151.8	225.4	306.3	369.6
107.5°	46.8	48.9	53.1	59.8	68.4	82.2	105.8	147.3	208.1	279.7	346.7
110°	53.0	54.8	58.7	65.1	74.0	87.3	109.2	146.4	199.8	262.9	327.0





TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	58.3	60.4	64.1	70.2	79.3	92.2	112.9	146.5	194.5	251.2	309.0
115°	66.9	68.8	72.4	78.5	86.7	99.8	118.3	147.8	188.6	236.7	286.9
117.5°	75.3	77.1	80.3	86.2	94.7	106.8	124.2	150.1	185.7	227.6	270.2
120°	80.6	82.5	85.2	91.3	99.8	111.7	128.1	151.5	184.1	222.7	261.9
122.5°	85.5	87.3	90.3	96.3	105.1	116.2	131.5	153.2	183.0	218.5	255.4
125°	92.2	94.0	97.6	103.8	112.3	123.2	136.9	155.8	181.3	212.7	245.8
127.5°	97.8	100.4	104.4	110.2	119.0	129.7	142.0	158.3	180.3	207.2	236.3
130°	101.0	104.0	108.3	114.4	122.9	133.5	145.1	160.3	179.8	203.5	230.3
132.5°	104.2	107.5	111.9	118.3	126.8	137.0	148.3	162.3	179.5	200.6	224.5
135°	108.3	111.9	116.5	123.6	132.0	141.8	152.4	164.6	179.2	196.5	216.3
137.5°	112.7	116.3	121.2	128.1	136.0	145.7	155.6	166.7	179.1	193.6	209.8
140°	115.6	119.2	124.2	130.8	138.7	147.8	157.3	167.6	178.9	191.9	205.6
142.5°	118.6	121.9	126.8	133.3	140.7	149.6	158.8	168.3	178.9	190.3	202.2
145°	123.6	126.6	131.1	137.2	143.9	152.1	160.7	169.1	178.2	188.0	197.4
147.5°	128.3	131.2	135.4	140.5	146.5	154.2	161.7	169.4	177.2	185.7	193.7
150°	131.7	134.1	138.1	142.7	148.2	155.2	162.1	169.1	176.4	183.7	191.1
152.5°	134.7	137.1	140.5	144.9	149.8	156.1	162.4	168.7	175.2	182.0	188.4
155°	139.3	141.1	144.5	147.8	152.4	157.6	162.7	167.9	173.1	178.9	184.7
157.5°	143.4	144.8	147.7	150.4	154.2	158.6	162.7	166.5	170.9	175.9	180.4
160°	146.0	147.2	149.6	152.1	155.5	159.1	162.7	165.8	169.4	173.7	177.6
162.5°	148.2	149.5	151.4	153.6	156.2	159.4	162.5	165.1	168.2	171.8	175.0
165°	151.2	151.8	153.6	155.2	157.0	159.7	161.9	163.7	165.8	168.5	171.0
167.5°	153.7	154.2	155.4	156.5	157.6	159.6	161.4	162.3	163.7	165.4	167.1
170°	155.2	155.5	156.4	157.0	157.9	159.4	160.9	161.5	162.5	163.7	165.2
172.5°	156.4	156.2	157.1	157.5	158.2	159.2	160.2	160.6	161.0	162.0	163.0
175°	157.6	157.3	157.9	157.9	158.2	158.8	159.4	159.1	159.4	159.7	160.7
177.5°	157.9	157.7	158.2	158.2	158.2	158.4	158.9	158.4	158.2	158.4	158.9
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1780.7	1788.1	1788.1	1789.2	1797.6	1796.6	1796.0
5°	1895.1	1906.3	1907.5	1919.4	1927.3	1924.7	1917.4
7.5°	2002.9	2023.7	2039.5	2048.4	2058.8	2065.3	2062.4
10°	2088.4	2118.7	2137.2	2149.7	2164.9	2176.1	2172.1
12.5°	2165.9	2202.1	2227.5	2248.9	2250.9	2265.3	2255.6
15°	2287.0	2325.2	2329.2	2345.0	2357.6	2356.2	2356.9
17.5°	2326.9	2339.3	2341.7	2342.1	2342.3	2337.6	2327.6
20°	2312.7	2308.1	2296.9	2288.3	2273.1	2271.1	2258.0
22.5°	2245.1	2230.5	2202.4	2183.8	2160.2	2154.0	2150.3
25°	2112.1	2079.7	2034.9	1992.0	1980.1	1957.1	1963.7
27.5°	1929.6	1879.2	1830.7	1795.8	1764.3	1729.7	1739.6
30°	1801.3	1744.6	1675.9	1623.2	1589.5	1556.5	1550.6
32.5°	1648.2	1565.1	1488.6	1442.1	1390.5	1369.7	1346.9
35°	1384.3	1303.1	1227.3	1161.9	1124.4	1095.3	1068.9
37.5°	1146.9	1053.5	992.2	939.4	912.1	895.5	899.7
40°	999.6	917.8	873.0	832.7	807.6	795.7	798.4
42.5°	880.4	819.1	782.1	754.6	736.9	730.3	728.8
45°	744.9	710.7	680.3	664.4	655.9	648.6	644.0
47.5°	652.6	624.6	607.4	598.1	590.6	583.2	583.0
50°	597.1	578.7	566.8	556.9	551.0	545.7	550.3
52.5°	554.9	538.0	526.2	517.3	515.1	510.3	510.1
55°	492.2	479.1	470.5	462.5	458.6	455.9	452.6
57.5°	435.2	422.7	414.7	409.7	402.3	399.6	398.6
60°	394.6	384.7	376.8	370.1	366.9	361.6	361.6
62.5°	357.1	347.2	339.8	334.8	329.4	327.3	327.8
65°	302.9	295.0	287.7	282.4	281.1	277.2	278.4
67.5°	253.0	247.7	240.0	237.1	234.6	232.6	230.9
70°	219.7	214.5	210.5	206.6	204.6	204.6	204.6
72.5°	191.7	185.4	183.0	178.1	179.2	177.1	175.0
75°	148.4	144.5	142.5	140.5	137.2	137.2	137.2
77.5°	109.3	108.1	105.7	103.6	102.8	102.1	102.4
80°	84.5	83.8	82.5	82.5	81.2	80.5	79.2
82.5°	64.9	63.2	62.4	61.9	61.6	61.5	61.2
85°	36.9	35.6	35.6	36.2	35.0	35.0	35.6
87.5°	16.1	16.2	15.8	15.8	16.3	15.8	15.8
90°	9.1	9.7	10.1	10.1	10.1	10.1	10.1
92.5°	22.7	20.2	18.3	18.1	17.1	17.3	16.9
95°	61.1	48.4	41.7	37.7	35.3	34.4	34.7
97.5°	152.1	119.2	97.3	82.7	75.3	70.9	68.3
100°	240.0	198.4	161.5	136.3	123.2	114.4	108.9
102.5°	329.3	298.9	259.8	232.4	210.1	199.1	191.7
105°	404.0	407.9	398.0	379.0	360.2	347.1	342.9
107.5°	398.6	430.2	444.9	447.3	446.3	443.6	438.0
110°	381.5	420.4	445.4	458.5	464.3	467.0	466.7



TEST NUMBER: P331422-935

CATALOG NUMBER: SA2XXDIP-C1005D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	361.3	402.9	431.5	449.7	459.3	464.5	466.1
115°	333.7	373.6	404.9	426.5	440.5	448.4	451.2
117.5°	311.3	347.5	376.9	398.9	413.7	422.0	424.3
120°	299.6	331.9	359.6	380.9	395.2	404.0	407.1
122.5°	289.9	320.5	345.4	364.5	378.7	386.5	389.0
125°	277.2	303.9	326.7	344.4	355.9	363.5	366.0
127.5°	264.8	290.0	311.0	326.4	337.3	343.8	345.8
130°	256.5	280.5	300.6	315.5	325.8	331.9	334.3
132.5°	248.7	270.8	289.6	304.3	314.6	320.2	322.4
135°	236.3	256.5	273.5	286.5	296.6	302.1	303.3
137.5°	226.6	242.5	257.4	269.3	277.9	282.8	284.6
140°	220.2	234.3	247.6	257.4	265.3	269.8	271.6
142.5°	214.6	226.7	237.9	247.1	254.3	258.4	258.7
145°	207.5	216.9	225.8	233.0	238.2	241.3	242.1
147.5°	201.6	209.0	215.4	221.4	225.6	227.6	228.3
150°	197.8	204.1	209.6	214.1	217.8	219.6	220.0
152.5°	194.6	200.0	204.7	208.4	211.5	212.8	212.9
155°	189.5	194.1	197.4	200.8	202.9	204.1	203.5
157.5°	184.4	188.2	190.9	193.2	195.0	195.5	195.5
160°	181.0	184.3	186.5	188.6	190.1	190.5	190.5
162.5°	177.9	180.7	182.4	184.5	185.5	185.8	185.5
165°	173.1	175.2	176.4	177.6	178.9	178.9	178.6
167.5°	168.8	170.2	171.3	171.9	172.5	172.5	172.1
170°	166.1	167.3	167.9	168.2	169.1	168.8	168.2
172.5°	163.7	164.6	165.0	165.3	165.7	165.4	165.1
175°	160.9	161.3	161.5	161.5	161.9	161.5	160.9
177.5°	158.9	159.2	159.2	159.2	159.2	158.9	158.4
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2

(END OF REPORT)