

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: P332688-830

Luminaire Tested: **SA4XXDIP-C1195D810U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332688-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

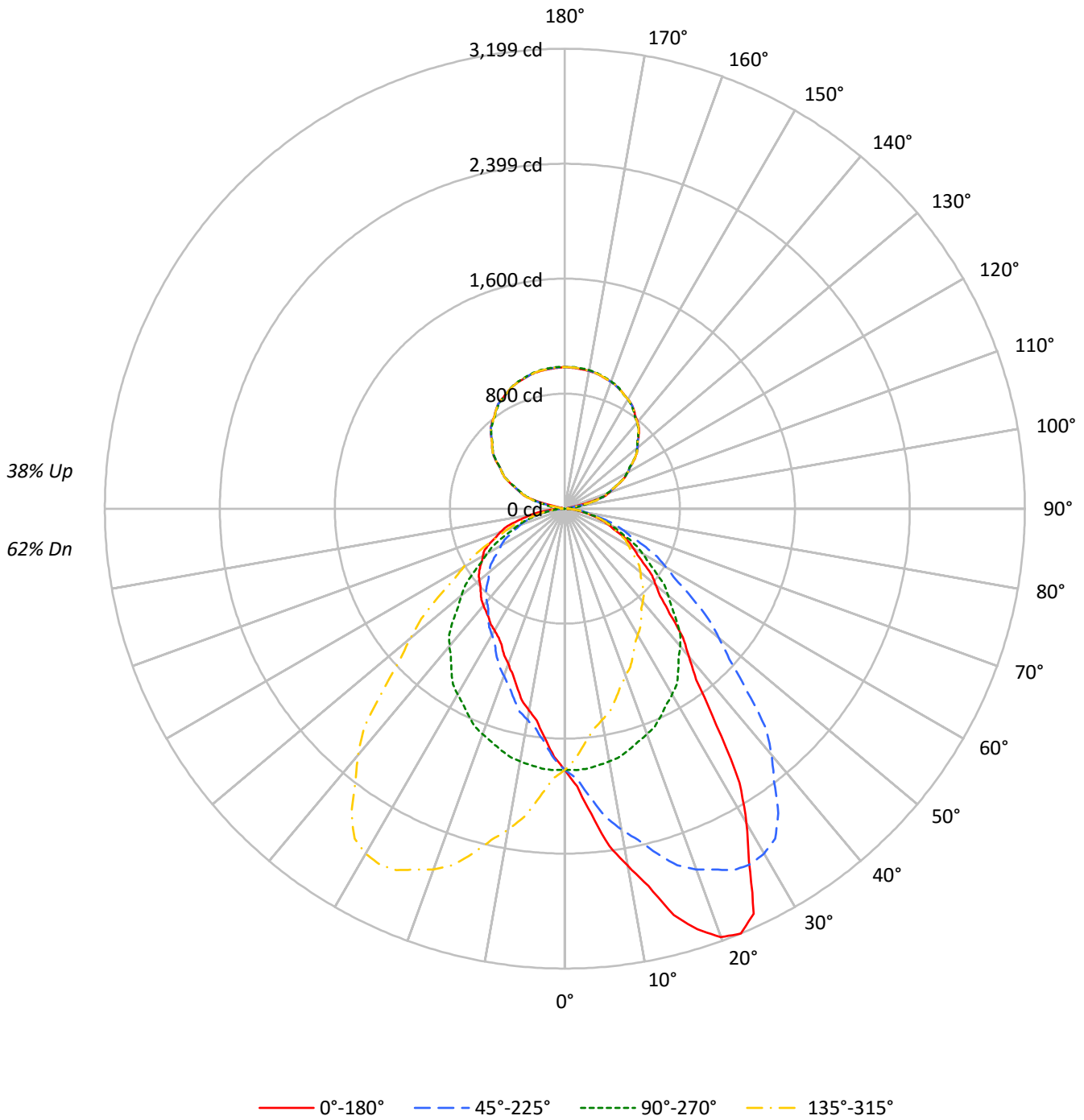
Lumens per Lamp: N/A  
Luminaire Lumens: 8062.9 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 60.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	93	89	94	91	87	84	79	77	75	69	67	66	60	59	57	53
2	92	85	78	73	86	80	74	70	70	66	62	61	58	55	53	51	49	45
3	84	75	67	61	79	70	64	58	62	57	53	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	50	45	49	44	41	42	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	35	38	35	32	29
6	66	53	45	39	61	50	43	38	45	39	34	40	35	31	35	31	28	25
7	61	48	40	35	57	46	38	33	41	35	30	36	31	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

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

	0°	90°	180°	270°
0°	14666	14666	14666	14666
5°	17271	14704	12977	14704
10°	20678	14638	11684	14638
15°	24466	14491	10730	14491
20°	27244	14339	9879	14339
25°	27684	14118	9291	14118
30°	23557	13904	9106	13904
35°	18111	13557	9107	13557
40°	14116	13149	9278	13149
45°	11771	12536	9434	12536
50°	10359	11786	9755	11786
55°	9491	10888	10148	10888
60°	8893	10085	10619	10085
65°	8281	9186	11012	9186
70°	7567	8297	11261	8297
75°	6759	7299	11126	7299
80°	5667	5983	10776	5983
85°	4177	4326	10319	4326



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.0	2.2
10°-20°	545.5	6.8
20°-30°	865.0	10.7
30°-40°	962.7	11.9
40°-50°	876.3	10.9
50°-60°	716.1	8.9
60°-70°	511.2	6.3
70°-80°	281.5	3.5
80°-90°	79.7	1.0
90°-100°	33.7	0.4
100°-110°	214.9	2.7
110°-120°	411.0	5.1
120°-130°	521.8	6.5
130°-140°	558.3	6.9
140°-150°	522.1	6.5
150°-160°	421.0	5.2
160°-170°	271.5	3.4
170°-180°	93.6	1.2
0°-30°	1587.5	19.7
0°-40°	2550.2	31.6
0°-60°	4142.6	51.4
0°-90°	5015.0	62.2
90°-120°	659.6	8.2
90°-150°	2261.8	28.1
90°-180°	3048.0	37.8
0°-180°	8062.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1817	1817	1817	1817	1817	
5°	2131	1814	1601	1814	2131	217
15°	2927	1734	1284	1734	2927	827
25°	3108	1585	1043	1585	3108	1370
35°	1838	1376	924	1376	1838	1166
45°	1031	1098	826	1098	1031	812
55°	674	774	721	774	674	609
65°	434	481	576	481	434	429
75°	217	234	357	234	217	230
85°	45	47	111	47	45	56
90°	22	2	22	2	22	11
95°	21	40	21	40	21	17
105°	210	222	210	222	210	183
115°	417	414	417	414	417	413
125°	587	582	587	582	587	522
135°	727	722	727	722	727	560
145°	837	833	837	833	837	523
155°	912	913	912	913	912	421
165°	959	963	959	963	959	271
175°	979	985	979	985	979	93
180°	985	985	985	985	985	



TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1933.4	1932.8	1926.8	1925.6	1921.4	1916.0	1914.8	1905.2	1885.8	1876.8	1874.4
5°	2131.2	2146.3	2126.7	2122.9	2120.6	2095.8	2083.0	2067.9	2033.3	2013.1	1997.2
7.5°	2367.2	2369.0	2360.4	2353.5	2334.4	2312.7	2280.2	2245.6	2204.3	2161.4	2129.1
10°	2522.5	2528.6	2518.8	2517.2	2478.9	2454.8	2406.6	2366.0	2319.3	2267.4	2220.0
12.5°	2686.2	2677.9	2672.9	2640.6	2633.6	2589.6	2533.6	2491.8	2419.9	2360.1	2297.1
15°	2927.3	2910.9	2900.3	2855.9	2834.0	2773.1	2713.7	2667.8	2573.7	2484.2	2416.4
17.5°	3068.8	3085.4	3061.0	3042.8	2986.4	2943.7	2882.9	2786.5	2712.9	2601.7	2516.2
20°	3171.2	3172.7	3159.1	3140.4	3096.0	3041.8	2975.5	2870.1	2782.1	2671.5	2554.1
22.5°	3198.9	3199.2	3193.4	3175.9	3142.2	3098.3	3031.5	2943.7	2837.0	2716.7	2599.2
25°	3107.9	3104.9	3111.7	3131.3	3118.5	3104.9	3066.6	3001.1	2901.8	2774.6	2648.2
27.5°	2770.2	2791.0	2829.2	2877.4	2923.8	2959.1	2969.1	2955.6	2894.1	2789.5	2657.0
30°	2527.1	2552.6	2581.2	2629.3	2722.7	2776.1	2834.8	2879.2	2854.4	2770.9	2647.4
32.5°	2259.7	2266.1	2308.5	2363.2	2448.7	2551.6	2644.6	2734.7	2764.7	2720.8	2617.9
35°	1837.7	1848.2	1894.1	1948.3	2053.0	2178.6	2318.6	2443.4	2546.6	2587.9	2535.3
37.5°	1499.7	1529.9	1562.3	1620.5	1712.6	1825.8	1971.2	2132.9	2286.5	2389.4	2406.9
40°	1339.5	1358.3	1381.7	1426.1	1504.3	1615.7	1740.6	1925.7	2089.1	2236.6	2284.7
42.5°	1213.1	1224.1	1238.4	1278.6	1338.1	1449.0	1563.0	1725.9	1889.8	2066.1	2146.8
45°	1031.0	1042.3	1066.3	1089.7	1134.8	1211.5	1317.7	1451.6	1616.5	1786.5	1935.5
47.5°	899.5	906.6	921.0	945.9	984.3	1034.9	1121.2	1233.1	1385.9	1551.0	1709.8
50°	824.8	830.8	842.1	864.7	894.0	939.1	1009.9	1114.5	1234.2	1400.4	1556.2
52.5°	765.8	768.2	776.5	791.8	815.1	853.1	911.2	997.7	1108.9	1257.2	1412.4
55°	674.3	677.3	684.9	696.1	716.4	740.5	784.9	849.6	946.7	1075.3	1210.0
57.5°	599.0	601.2	607.5	611.8	628.5	648.1	682.2	728.5	802.0	911.2	1031.4
60°	550.8	549.3	556.9	560.6	571.9	588.5	614.8	659.2	723.2	811.2	921.9
62.5°	503.9	501.8	508.1	513.1	519.5	533.7	555.3	590.0	641.9	721.5	817.1
65°	433.5	430.5	434.2	440.3	446.3	453.7	469.6	500.4	541.9	599.0	672.0
67.5°	362.7	365.9	366.5	369.5	373.0	383.2	394.0	415.8	445.1	490.8	552.7
70°	320.6	321.3	324.3	324.3	326.6	335.6	344.7	357.4	386.1	428.2	478.6
72.5°	278.4	281.6	280.4	282.8	284.5	290.5	297.1	309.2	333.7	365.0	407.6
75°	216.7	219.0	219.0	219.7	222.0	224.2	229.5	238.6	255.9	279.2	308.5
77.5°	158.1	158.3	159.4	162.1	162.1	165.7	169.7	176.8	185.4	201.4	219.3
80°	121.9	123.4	122.6	124.1	124.1	127.1	128.7	137.7	141.5	152.0	166.3
82.5°	89.4	90.9	90.8	92.8	94.1	94.6	96.8	100.4	104.2	113.5	119.3
85°	45.1	46.7	45.1	46.7	48.9	49.7	51.9	52.7	55.7	58.0	63.2
87.5°	17.6	19.4	19.3	19.9	21.0	21.5	21.9	21.1	23.3	23.8	25.8
90°	22.1	21.8	21.5	21.1	20.8	20.2	19.1	18.2	17.2	16.2	14.9
92.5°	20.4	20.3	20.2	20.2	20.1	19.5	18.6	17.6	16.6	15.6	14.3
95°	21.4	21.2	21.0	20.9	20.7	20.2	19.1	18.2	17.2	16.2	16.0
97.5°	20.6	20.5	20.3	20.2	20.0	19.9	19.8	19.7	19.5	19.4	37.7
100°	20.6	20.5	20.3	20.2	20.0	21.3	24.0	26.9	29.6	32.4	55.0
102.5°	21.2	21.2	21.1	21.1	21.1	36.1	66.2	96.1	126.2	156.3	159.2
105°	210.0	215.9	221.8	227.7	233.7	235.8	234.3	232.9	231.4	229.9	229.1
107.5°	292.8	292.1	291.4	290.9	290.2	289.5	288.8	288.1	287.4	286.7	285.6
110°	328.7	328.2	327.7	327.3	326.7	326.3	326.0	325.6	325.4	325.0	324.0



TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	364.7	364.0	363.4	362.8	362.1	361.8	361.9	362.0	362.1	362.1	361.7
115°	417.2	417.2	417.2	417.2	417.2	417.0	416.6	416.3	415.9	415.7	415.8
117.5°	470.5	470.5	470.6	470.7	470.7	470.8	470.9	470.9	471.0	471.1	470.7
120°	504.1	504.4	504.7	505.1	505.4	505.4	505.1	504.7	504.4	504.1	504.3
122.5°	537.1	537.4	537.7	538.1	538.4	538.5	538.3	538.1	537.9	537.7	537.4
125°	586.6	586.4	586.3	586.2	586.0	585.6	585.1	584.7	584.2	583.7	584.0
127.5°	630.1	630.3	630.4	630.5	630.7	630.7	630.8	630.9	631.0	631.1	630.4
130°	659.6	659.6	659.6	659.6	659.6	659.5	659.3	659.2	659.0	658.8	658.4
132.5°	686.7	686.8	686.9	687.1	687.2	687.2	687.0	686.9	686.7	686.5	685.9
135°	727.4	727.1	726.7	726.4	726.0	725.8	725.4	725.1	724.7	724.4	723.8
137.5°	762.1	762.2	762.3	762.4	762.5	762.4	762.0	761.7	761.4	761.0	760.3
140°	786.4	786.2	786.0	785.9	785.7	785.3	784.9	784.4	783.9	783.3	783.1
142.5°	806.3	806.3	806.3	806.3	806.3	806.1	805.7	805.3	805.0	804.6	804.5
145°	837.2	836.9	836.5	836.2	835.8	835.7	835.5	835.3	835.2	835.0	835.0
147.5°	862.7	862.5	862.3	862.2	862.0	861.9	861.8	861.7	861.5	861.4	861.5
150°	879.2	879.0	878.8	878.7	878.5	878.4	878.4	878.4	878.4	878.4	878.6
152.5°	893.3	893.4	893.5	893.6	893.7	893.6	893.4	893.2	892.9	892.6	892.9
155°	912.4	912.9	913.3	913.8	914.4	914.3	913.6	912.9	912.3	911.6	912.1
157.5°	928.3	929.2	930.0	930.9	931.7	931.7	930.9	930.0	929.2	928.3	928.9
160°	938.9	939.9	940.8	941.9	942.8	942.8	941.9	940.8	939.9	938.9	939.1
162.5°	947.2	948.3	949.3	950.5	951.6	951.7	950.6	949.7	948.8	947.7	947.9
165°	958.8	960.3	961.8	963.2	964.7	964.8	963.5	962.1	960.8	959.5	959.5
167.5°	967.5	969.1	970.7	972.4	974.0	974.1	972.7	971.3	969.8	968.4	968.5
170°	972.8	974.4	976.1	977.7	979.3	979.5	978.2	976.9	975.5	974.3	974.1
172.5°	975.7	977.5	979.3	981.1	982.8	983.1	981.8	980.4	979.1	977.8	977.6
175°	979.4	981.4	983.4	985.3	987.3	987.5	986.1	984.6	983.1	981.7	981.5
177.5°	981.8	983.4	985.0	986.5	988.1	988.4	987.3	986.3	985.1	984.1	983.9
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1875.0	1866.6	1860.6	1855.8	1842.5	1834.7	1828.6	1820.2	1810.6	1800.4	1787.7
5°	1981.4	1955.9	1937.0	1908.5	1881.3	1858.8	1835.4	1814.4	1788.8	1761.0	1740.6
7.5°	2093.3	2055.2	2006.4	1964.2	1916.6	1875.2	1838.1	1800.3	1760.8	1722.6	1687.5
10°	2164.3	2115.3	2061.2	1997.2	1937.0	1883.6	1833.9	1785.7	1739.1	1692.4	1652.6
12.5°	2240.8	2179.8	2099.7	2025.0	1957.5	1886.0	1826.1	1767.1	1710.8	1661.8	1615.2
15°	2343.4	2255.3	2162.8	2062.7	1973.9	1890.4	1808.4	1733.8	1670.7	1605.9	1560.8
17.5°	2406.5	2297.5	2191.7	2087.1	1979.6	1874.2	1785.7	1699.9	1620.7	1556.4	1499.5
20°	2448.0	2339.7	2207.9	2103.4	1975.4	1867.1	1764.7	1669.1	1586.4	1517.9	1459.2
22.5°	2484.2	2358.9	2227.2	2089.5	1962.2	1847.2	1735.2	1639.0	1554.4	1482.3	1426.1
25°	2503.7	2359.9	2217.0	2080.0	1935.5	1799.3	1697.7	1584.9	1494.5	1418.5	1358.3
27.5°	2505.8	2352.1	2190.4	2038.2	1889.0	1762.2	1633.9	1533.0	1439.3	1359.0	1301.2
30°	2499.2	2338.9	2165.0	2000.3	1850.5	1712.8	1601.4	1491.6	1396.0	1316.2	1255.9
32.5°	2478.1	2311.2	2132.5	1958.1	1802.9	1668.2	1553.2	1448.8	1355.7	1277.1	1213.8
35°	2417.2	2252.3	2061.9	1880.6	1721.8	1585.6	1481.8	1375.6	1282.3	1207.9	1146.9
37.5°	2321.9	2172.8	1979.3	1791.7	1635.7	1498.9	1396.0	1300.0	1216.0	1140.3	1077.8
40°	2238.8	2107.9	1913.7	1730.8	1562.3	1432.1	1335.8	1247.7	1164.1	1092.7	1033.2
42.5°	2143.1	2029.0	1849.9	1656.1	1493.6	1362.8	1268.9	1189.9	1111.2	1045.1	985.7
45°	1972.4	1897.1	1728.6	1549.4	1380.2	1256.7	1167.2	1098.0	1031.7	967.0	917.4
47.5°	1776.1	1738.8	1596.9	1426.8	1266.0	1144.4	1066.8	1002.9	944.7	889.9	846.1
50°	1644.3	1626.3	1503.5	1339.5	1186.0	1071.6	993.3	938.4	888.7	840.6	799.2
52.5°	1514.3	1513.6	1403.1	1252.8	1110.8	1000.6	922.9	871.6	828.6	789.4	752.2
55°	1315.4	1336.5	1250.0	1116.0	988.8	889.5	819.5	773.6	743.5	711.1	683.3
57.5°	1132.8	1167.8	1096.5	978.5	872.3	780.8	719.9	685.4	653.4	633.8	613.5
60°	1013.7	1046.8	991.1	891.7	791.6	713.4	655.4	624.6	596.7	583.2	568.9
62.5°	907.7	937.2	896.0	803.9	717.0	641.8	592.9	563.2	544.4	529.6	520.2
65°	756.3	781.2	745.7	678.8	604.3	544.1	504.2	480.9	462.8	456.8	446.3
67.5°	611.3	634.0	614.8	557.9	498.1	452.6	421.4	399.0	388.3	383.0	375.5
70°	525.3	547.8	527.5	477.9	432.0	393.6	364.2	351.5	340.2	337.9	327.3
72.5°	452.4	467.8	447.4	408.6	369.4	337.0	314.2	300.9	295.0	291.0	285.2
75°	339.4	353.0	339.4	309.2	281.4	258.9	239.3	234.0	227.2	225.0	221.2
77.5°	240.3	251.9	241.6	222.7	202.0	184.5	174.0	167.2	165.7	161.8	163.6
80°	183.6	191.1	181.3	168.5	152.0	140.0	132.4	128.7	124.1	122.6	125.6
82.5°	131.9	135.2	130.2	121.6	109.2	101.4	96.3	92.0	91.0	91.3	91.3
85°	68.5	67.8	67.0	59.5	55.7	50.4	47.4	46.7	45.9	47.4	48.9
87.5°	25.6	25.9	25.1	22.3	20.2	18.0	17.1	16.1	17.1	18.0	18.9
90°	13.6	12.3	10.9	9.4	7.6	5.8	4.1	2.2	4.1	5.8	7.6
92.5°	13.0	11.7	10.4	9.7	9.6	9.5	9.4	9.3	9.4	9.5	9.6
95°	15.9	15.7	15.6	18.3	23.8	29.4	35.0	40.5	35.0	29.4	23.8
97.5°	56.0	74.3	92.6	100.0	96.5	93.0	89.5	86.1	89.5	93.0	96.5
100°	77.7	100.2	122.8	132.6	129.7	126.8	123.9	120.8	123.9	126.8	129.7
102.5°	162.1	165.0	168.1	168.4	166.3	164.1	161.9	159.8	161.9	164.1	166.3
105°	228.3	227.4	226.7	225.7	224.8	223.8	222.8	221.8	222.8	223.8	224.8
107.5°	284.5	283.3	282.2	281.4	281.0	280.4	279.9	279.5	279.9	280.4	281.0
110°	323.0	322.1	321.0	320.4	319.8	319.3	318.9	318.4	318.9	319.3	319.8





TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	361.2	360.8	360.3	359.7	358.7	357.9	356.9	356.1	356.9	357.9	358.7
115°	415.9	416.1	416.3	416.1	415.7	415.2	414.6	414.2	414.6	415.2	415.7
117.5°	470.3	470.0	469.7	469.1	468.4	467.8	467.1	466.5	467.1	467.8	468.4
120°	504.4	504.5	504.7	504.4	503.9	503.2	502.6	501.9	502.6	503.2	503.9
122.5°	537.2	537.0	536.8	536.5	536.0	535.6	535.3	534.9	535.3	535.6	536.0
125°	584.4	584.7	584.9	584.8	584.2	583.5	582.9	582.2	582.9	583.5	584.2
127.5°	629.6	628.9	628.1	627.6	627.5	627.4	627.2	627.0	627.2	627.4	627.5
130°	657.9	657.3	656.9	656.6	656.4	656.2	656.1	655.9	656.1	656.2	656.4
132.5°	685.3	684.7	684.1	683.6	683.3	683.1	682.7	682.4	682.7	683.1	683.3
135°	723.1	722.5	721.8	721.6	721.7	721.9	722.1	722.3	722.1	721.9	721.7
137.5°	759.6	758.8	758.1	757.7	757.6	757.6	757.5	757.4	757.5	757.6	757.6
140°	782.8	782.4	782.1	781.7	781.5	781.1	780.8	780.4	780.8	781.1	781.5
142.5°	804.3	804.0	803.8	803.4	802.9	802.3	801.6	801.1	801.6	802.3	802.9
145°	835.0	835.0	835.0	834.7	834.2	833.8	833.3	832.7	833.3	833.8	834.2
147.5°	861.7	861.9	862.0	861.7	860.7	859.8	858.9	858.0	858.9	859.8	860.7
150°	878.8	878.9	879.1	878.8	878.3	877.6	876.9	876.3	876.9	877.6	878.3
152.5°	893.2	893.5	893.8	893.7	893.2	892.6	892.1	891.6	892.1	892.6	893.2
155°	912.6	913.1	913.6	913.8	913.6	913.4	913.2	913.1	913.2	913.4	913.6
157.5°	929.4	929.9	930.5	930.9	930.9	931.0	931.1	931.2	931.1	931.0	930.9
160°	939.2	939.4	939.5	939.9	940.4	940.8	941.3	941.9	941.3	940.8	940.4
162.5°	948.1	948.2	948.4	948.8	949.4	950.0	950.6	951.3	950.6	950.0	949.4
165°	959.5	959.5	959.5	960.0	960.7	961.6	962.4	963.2	962.4	961.6	960.7
167.5°	968.6	968.7	968.7	969.2	970.1	970.9	971.8	972.6	971.8	970.9	970.1
170°	973.9	973.7	973.6	974.0	975.0	976.0	976.9	978.0	976.9	976.0	975.0
172.5°	977.5	977.3	977.1	977.6	978.5	979.5	980.5	981.5	980.5	979.5	978.5
175°	981.3	981.2	981.0	981.4	982.4	983.4	984.3	985.3	984.3	983.4	982.4
177.5°	983.6	983.4	983.1	983.4	984.3	985.2	986.2	987.1	986.2	985.2	984.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1781.7	1776.3	1768.5	1757.7	1748.6	1739.0	1736.5	1733.0	1740.1	1734.2	1732.3
5°	1723.3	1707.5	1687.2	1663.9	1650.3	1630.8	1627.0	1619.5	1611.9	1611.2	1603.6
7.5°	1661.4	1638.2	1611.7	1587.8	1565.8	1544.5	1530.5	1527.5	1516.4	1509.9	1502.3
10°	1621.7	1593.1	1562.3	1539.7	1514.1	1491.6	1475.7	1466.7	1459.2	1450.9	1443.4
12.5°	1574.8	1544.4	1518.9	1494.5	1464.1	1447.0	1421.0	1405.3	1403.8	1403.9	1384.4
15°	1520.1	1490.1	1450.9	1416.3	1399.7	1366.6	1352.3	1334.3	1323.0	1311.6	1302.7
17.5°	1457.6	1420.2	1389.6	1349.9	1318.3	1291.9	1273.2	1262.3	1245.3	1229.4	1217.8
20°	1418.5	1378.7	1346.3	1304.1	1269.5	1237.2	1221.3	1206.4	1193.5	1180.0	1167.2
22.5°	1378.8	1337.1	1297.5	1256.6	1224.4	1190.2	1175.0	1154.5	1142.4	1134.8	1122.0
25°	1316.2	1271.0	1225.9	1186.8	1153.7	1123.5	1103.2	1087.4	1073.8	1067.8	1059.6
27.5°	1248.1	1203.3	1159.7	1115.2	1077.6	1055.8	1039.5	1027.7	1019.8	1011.8	1008.1
30°	1204.9	1158.2	1111.5	1070.1	1035.5	1013.7	998.6	990.3	984.3	980.5	976.8
32.5°	1160.8	1114.8	1065.7	1027.9	996.9	977.5	966.1	957.8	954.8	953.5	952.2
35°	1090.4	1043.8	998.6	964.8	935.4	927.8	918.1	913.6	912.1	917.4	919.6
37.5°	1022.3	978.9	937.4	904.6	885.3	874.3	871.0	871.1	876.6	881.2	886.6
40°	978.3	936.1	897.0	868.5	850.4	843.6	842.1	845.8	851.9	857.1	863.2
42.5°	935.6	894.0	858.5	831.7	819.1	812.8	813.8	817.6	826.0	832.5	841.5
45°	869.2	834.5	799.9	778.2	767.6	769.1	769.1	775.9	784.1	793.9	803.7
47.5°	806.7	771.8	743.4	725.0	719.5	718.2	722.5	731.3	743.2	755.3	768.9
50°	764.6	731.5	706.6	690.0	684.1	686.4	692.3	700.6	714.9	730.0	744.2
52.5°	721.8	691.7	668.7	653.4	649.1	653.2	659.2	672.3	684.9	701.1	718.4
55°	655.4	629.9	611.8	600.5	599.0	601.2	608.0	622.4	640.4	660.7	677.3
57.5°	589.4	568.0	551.5	543.7	544.4	546.5	557.6	574.7	593.9	615.6	637.0
60°	544.8	525.3	511.7	505.7	506.4	511.0	524.5	540.4	564.4	585.5	608.0
62.5°	502.7	485.5	472.6	467.2	466.1	476.1	489.0	505.4	529.5	553.0	577.3
65°	435.0	421.4	410.9	407.8	410.1	417.6	434.2	456.0	476.4	501.1	526.8
67.5°	368.7	357.6	350.3	351.8	354.5	365.6	379.5	398.2	421.3	447.0	472.3
70°	326.6	316.0	310.0	310.8	315.3	328.9	340.9	359.7	384.6	410.9	432.0
72.5°	283.2	276.4	270.9	274.1	278.6	287.9	302.9	321.8	343.7	368.2	390.4
75°	217.4	217.4	214.4	216.7	223.5	232.5	243.8	263.3	285.2	304.8	322.8
77.5°	161.4	159.7	161.6	164.4	168.2	179.0	191.9	205.9	222.3	241.9	256.7
80°	123.4	124.1	127.9	132.4	133.9	142.2	155.8	168.5	181.3	197.9	212.3
82.5°	92.7	93.5	95.4	101.1	102.6	111.5	120.3	133.1	144.7	155.8	167.7
85°	50.4	50.4	54.2	56.5	60.2	66.3	71.4	79.0	89.5	97.1	108.4
87.5°	21.1	21.5	24.1	25.6	27.7	30.9	32.3	39.1	41.8	45.0	50.5
90°	9.4	10.9	12.3	13.6	14.9	16.2	17.2	18.2	19.1	20.2	20.8
92.5°	9.7	10.4	11.7	13.0	14.3	15.6	16.6	17.6	18.6	19.5	20.1
95°	18.3	15.6	15.7	15.9	16.0	16.2	17.2	18.2	19.1	20.2	20.7
97.5°	100.0	92.6	74.3	56.0	37.7	19.4	19.5	19.7	19.8	19.9	20.0
100°	132.6	122.8	100.2	77.7	55.0	32.4	29.6	26.9	24.0	21.3	20.0
102.5°	168.4	168.1	165.0	162.1	159.2	156.3	126.2	96.1	66.2	36.1	21.1
105°	225.7	226.7	227.4	228.3	229.1	229.9	231.4	232.9	234.3	235.8	233.7
107.5°	281.4	282.2	283.3	284.5	285.6	286.7	287.4	288.1	288.8	289.5	290.2
110°	320.4	321.0	322.1	323.0	324.0	325.0	325.4	325.6	326.0	326.3	326.7



TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	359.7	360.3	360.8	361.2	361.7	362.1	362.1	362.0	361.9	361.8	362.1
115°	416.1	416.3	416.1	415.9	415.8	415.7	415.9	416.3	416.6	417.0	417.2
117.5°	469.1	469.7	470.0	470.3	470.7	471.1	471.0	470.9	470.9	470.8	470.7
120°	504.4	504.7	504.5	504.4	504.3	504.1	504.4	504.7	505.1	505.4	505.4
122.5°	536.5	536.8	537.0	537.2	537.4	537.7	537.9	538.1	538.3	538.5	538.4
125°	584.8	584.9	584.7	584.4	584.0	583.7	584.2	584.7	585.1	585.6	586.0
127.5°	627.6	628.1	628.9	629.6	630.4	631.1	631.0	630.9	630.8	630.7	630.7
130°	656.6	656.9	657.3	657.9	658.4	658.8	659.0	659.2	659.3	659.5	659.6
132.5°	683.6	684.1	684.7	685.3	685.9	686.5	686.7	686.9	687.0	687.2	687.2
135°	721.6	721.8	722.5	723.1	723.8	724.4	724.7	725.1	725.4	725.8	726.0
137.5°	757.7	758.1	758.8	759.6	760.3	761.0	761.4	761.7	762.0	762.4	762.5
140°	781.7	782.1	782.4	782.8	783.1	783.3	783.9	784.4	784.9	785.3	785.7
142.5°	803.4	803.8	804.0	804.3	804.5	804.6	805.0	805.3	805.7	806.1	806.3
145°	834.7	835.0	835.0	835.0	835.0	835.0	835.2	835.3	835.5	835.7	835.8
147.5°	861.7	862.0	861.9	861.7	861.5	861.4	861.5	861.7	861.8	861.9	862.0
150°	878.8	879.1	878.9	878.8	878.6	878.4	878.4	878.4	878.4	878.4	878.5
152.5°	893.7	893.8	893.5	893.2	892.9	892.6	892.9	893.2	893.4	893.6	893.7
155°	913.8	913.6	913.1	912.6	912.1	911.6	912.3	912.9	913.6	914.3	914.4
157.5°	930.9	930.5	929.9	929.4	928.9	928.3	929.2	930.0	930.9	931.7	931.7
160°	939.9	939.5	939.4	939.2	939.1	938.9	939.9	940.8	941.9	942.8	942.8
162.5°	948.8	948.4	948.2	948.1	947.9	947.7	948.8	949.7	950.6	951.7	951.6
165°	960.0	959.5	959.5	959.5	959.5	959.5	960.8	962.1	963.5	964.8	964.7
167.5°	969.2	968.7	968.7	968.6	968.5	968.4	969.8	971.3	972.7	974.1	974.0
170°	974.0	973.6	973.7	973.9	974.1	974.3	975.5	976.9	978.2	979.5	979.3
172.5°	977.6	977.1	977.3	977.5	977.6	977.8	979.1	980.4	981.8	983.1	982.8
175°	981.4	981.0	981.2	981.3	981.5	981.7	983.1	984.6	986.1	987.5	987.3
177.5°	983.4	983.1	983.4	983.6	983.9	984.1	985.1	986.3	987.3	988.4	988.1
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1731.2	1729.9	1725.7	1725.1	1725.7	1729.9	1731.2	1732.3	1734.2	1740.1	1733.0
5°	1599.1	1595.3	1593.1	1601.4	1593.1	1595.3	1599.1	1603.6	1611.2	1611.9	1619.5
7.5°	1499.7	1496.7	1490.1	1487.9	1490.1	1496.7	1499.7	1502.3	1509.9	1516.4	1527.5
10°	1435.9	1432.9	1426.8	1425.3	1426.8	1432.9	1435.9	1443.4	1450.9	1459.2	1466.7
12.5°	1374.4	1368.4	1367.3	1368.8	1367.3	1368.4	1374.4	1384.4	1403.9	1403.8	1405.3
15°	1292.9	1289.9	1281.6	1283.8	1281.6	1289.9	1292.9	1302.7	1311.6	1323.0	1334.3
17.5°	1212.5	1208.9	1198.8	1207.7	1198.8	1208.9	1212.5	1217.8	1229.4	1245.3	1262.3
20°	1161.9	1155.9	1150.7	1149.9	1150.7	1155.9	1161.9	1167.2	1180.0	1193.5	1206.4
22.5°	1113.7	1108.3	1107.9	1103.0	1107.9	1108.3	1113.7	1122.0	1134.8	1142.4	1154.5
25°	1053.6	1048.3	1046.8	1043.0	1046.8	1048.3	1053.6	1059.6	1067.8	1073.8	1087.4
27.5°	1007.4	1004.8	1002.1	1003.2	1002.1	1004.8	1007.4	1008.1	1011.8	1019.8	1027.7
30°	979.0	978.3	976.8	976.8	976.8	978.3	979.0	976.8	980.5	984.3	990.3
32.5°	955.5	955.5	956.3	956.3	956.3	955.5	955.5	952.2	953.5	954.8	957.8
35°	922.7	924.8	926.3	924.1	926.3	924.8	922.7	919.6	917.4	912.1	913.6
37.5°	892.8	895.0	897.2	899.8	897.2	895.0	892.8	886.6	881.2	876.6	871.1
40°	870.0	875.2	876.7	880.4	876.7	875.2	870.0	863.2	857.1	851.9	845.8
42.5°	848.3	854.1	858.0	858.8	858.0	854.1	848.3	841.5	832.5	826.0	817.6
45°	815.0	821.0	826.3	826.3	826.3	821.0	815.0	803.7	793.9	784.1	775.9
47.5°	780.5	789.3	794.6	795.9	794.6	789.3	780.5	768.9	755.3	743.2	731.3
50°	757.1	767.6	772.9	776.7	772.9	767.6	757.1	744.2	730.0	714.9	700.6
52.5°	734.1	744.7	751.8	753.8	751.8	744.7	734.1	718.4	701.1	684.9	672.3
55°	694.6	709.6	717.9	721.0	717.9	709.6	694.6	677.3	660.7	640.4	622.4
57.5°	657.2	671.1	680.7	683.0	680.7	671.1	657.2	637.0	615.6	593.9	574.7
60°	628.4	643.4	655.4	657.7	655.4	643.4	628.4	608.0	585.5	564.4	540.4
62.5°	598.9	614.5	625.4	631.2	625.4	614.5	598.9	577.3	553.0	529.5	505.4
65°	547.8	563.6	574.2	576.5	574.2	563.6	547.8	526.8	501.1	476.4	456.0
67.5°	492.2	507.9	514.9	519.2	514.9	507.9	492.2	472.3	447.0	421.3	398.2
70°	453.0	465.8	473.3	477.1	473.3	465.8	453.0	432.0	410.9	384.6	359.7
72.5°	408.5	421.9	430.6	431.3	430.6	421.9	408.5	390.4	368.2	343.7	321.8
75°	340.2	352.2	356.7	356.7	356.7	352.2	340.2	322.8	304.8	285.2	263.3
77.5°	269.3	275.4	281.2	282.4	281.2	275.4	269.3	256.7	241.9	222.3	205.9
80°	223.5	227.2	231.8	231.8	231.8	227.2	223.5	212.3	197.9	181.3	168.5
82.5°	176.5	179.7	184.3	183.6	184.3	179.7	176.5	167.7	155.8	144.7	133.1
85°	106.9	113.7	112.9	111.4	112.9	113.7	106.9	108.4	97.1	89.5	79.0
87.5°	52.4	53.1	55.0	56.2	55.0	53.1	52.4	50.5	45.0	41.8	39.1
90°	21.1	21.5	21.8	22.1	21.8	21.5	21.1	20.8	20.2	19.1	18.2
92.5°	20.2	20.2	20.3	20.4	20.3	20.2	20.2	20.1	19.5	18.6	17.6
95°	20.9	21.0	21.2	21.4	21.2	21.0	20.9	20.7	20.2	19.1	18.2
97.5°	20.2	20.3	20.5	20.6	20.5	20.3	20.2	20.0	19.9	19.8	19.7
100°	20.2	20.3	20.5	20.6	20.5	20.3	20.2	20.0	21.3	24.0	26.9
102.5°	21.1	21.1	21.2	21.2	21.2	21.1	21.1	21.1	36.1	66.2	96.1
105°	227.7	221.8	215.9	210.0	215.9	221.8	227.7	233.7	235.8	234.3	232.9
107.5°	290.9	291.4	292.1	292.8	292.1	291.4	290.9	290.2	289.5	288.8	288.1
110°	327.3	327.7	328.2	328.7	328.2	327.7	327.3	326.7	326.3	326.0	325.6



TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	362.8	363.4	364.0	364.7	364.0	363.4	362.8	362.1	361.8	361.9	362.0
115°	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.0	416.6	416.3
117.5°	470.7	470.6	470.5	470.5	470.5	470.6	470.7	470.7	470.8	470.9	470.9
120°	505.1	504.7	504.4	504.1	504.4	504.7	505.1	505.4	505.4	505.1	504.7
122.5°	538.1	537.7	537.4	537.1	537.4	537.7	538.1	538.4	538.5	538.3	538.1
125°	586.2	586.3	586.4	586.6	586.4	586.3	586.2	586.0	585.6	585.1	584.7
127.5°	630.5	630.4	630.3	630.1	630.3	630.4	630.5	630.7	630.7	630.8	630.9
130°	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.5	659.3	659.2
132.5°	687.1	686.9	686.8	686.7	686.8	686.9	687.1	687.2	687.2	687.0	686.9
135°	726.4	726.7	727.1	727.4	727.1	726.7	726.4	726.0	725.8	725.4	725.1
137.5°	762.4	762.3	762.2	762.1	762.2	762.3	762.4	762.5	762.4	762.0	761.7
140°	785.9	786.0	786.2	786.4	786.2	786.0	785.9	785.7	785.3	784.9	784.4
142.5°	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.1	805.7	805.3
145°	836.2	836.5	836.9	837.2	836.9	836.5	836.2	835.8	835.7	835.5	835.3
147.5°	862.2	862.3	862.5	862.7	862.5	862.3	862.2	862.0	861.9	861.8	861.7
150°	878.7	878.8	879.0	879.2	879.0	878.8	878.7	878.5	878.4	878.4	878.4
152.5°	893.6	893.5	893.4	893.3	893.4	893.5	893.6	893.7	893.6	893.4	893.2
155°	913.8	913.3	912.9	912.4	912.9	913.3	913.8	914.4	914.3	913.6	912.9
157.5°	930.9	930.0	929.2	928.3	929.2	930.0	930.9	931.7	931.7	930.9	930.0
160°	941.9	940.8	939.9	938.9	939.9	940.8	941.9	942.8	942.8	941.9	940.8
162.5°	950.5	949.3	948.3	947.2	948.3	949.3	950.5	951.6	951.7	950.6	949.7
165°	963.2	961.8	960.3	958.8	960.3	961.8	963.2	964.7	964.8	963.5	962.1
167.5°	972.4	970.7	969.1	967.5	969.1	970.7	972.4	974.0	974.1	972.7	971.3
170°	977.7	976.1	974.4	972.8	974.4	976.1	977.7	979.3	979.5	978.2	976.9
172.5°	981.1	979.3	977.5	975.7	977.5	979.3	981.1	982.8	983.1	981.8	980.4
175°	985.3	983.4	981.4	979.4	981.4	983.4	985.3	987.3	987.5	986.1	984.6
177.5°	986.5	985.0	983.4	981.8	983.4	985.0	986.5	988.1	988.4	987.3	986.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1736.5	1739.0	1748.6	1757.7	1768.5	1776.3	1781.7	1787.7	1800.4	1810.6	1820.2
5°	1627.0	1630.8	1650.3	1663.9	1687.2	1707.5	1723.3	1740.6	1761.0	1788.8	1814.4
7.5°	1530.5	1544.5	1565.8	1587.8	1611.7	1638.2	1661.4	1687.5	1722.6	1760.8	1800.3
10°	1475.7	1491.6	1514.1	1539.7	1562.3	1593.1	1621.7	1652.6	1692.4	1739.1	1785.7
12.5°	1421.0	1447.0	1464.1	1494.5	1518.9	1544.4	1574.8	1615.2	1661.8	1710.8	1767.1
15°	1352.3	1366.6	1399.7	1416.3	1450.9	1490.1	1520.1	1560.8	1605.9	1670.7	1733.8
17.5°	1273.2	1291.9	1318.3	1349.9	1389.6	1420.2	1457.6	1499.5	1556.4	1620.7	1699.9
20°	1221.3	1237.2	1269.5	1304.1	1346.3	1378.7	1418.5	1459.2	1517.9	1586.4	1669.1
22.5°	1175.0	1190.2	1224.4	1256.6	1297.5	1337.1	1378.8	1426.1	1482.3	1554.4	1639.0
25°	1103.2	1123.5	1153.7	1186.8	1225.9	1271.0	1316.2	1358.3	1418.5	1494.5	1584.9
27.5°	1039.5	1055.8	1077.6	1115.2	1159.7	1203.3	1248.1	1301.2	1359.0	1439.3	1533.0
30°	998.6	1013.7	1035.5	1070.1	1111.5	1158.2	1204.9	1255.9	1316.2	1396.0	1491.6
32.5°	966.1	977.5	996.9	1027.9	1065.7	1114.8	1160.8	1213.8	1277.1	1355.7	1448.8
35°	918.1	927.8	935.4	964.8	998.6	1043.8	1090.4	1146.9	1207.9	1282.3	1375.6
37.5°	871.0	874.3	885.3	904.6	937.4	978.9	1022.3	1077.8	1140.3	1216.0	1300.0
40°	842.1	843.6	850.4	868.5	897.0	936.1	978.3	1033.2	1092.7	1164.1	1247.7
42.5°	813.8	812.8	819.1	831.7	858.5	894.0	935.6	985.7	1045.1	1111.2	1189.9
45°	769.1	769.1	767.6	778.2	799.9	834.5	869.2	917.4	967.0	1031.7	1098.0
47.5°	722.5	718.2	719.5	725.0	743.4	771.8	806.7	846.1	889.9	944.7	1002.9
50°	692.3	686.4	684.1	690.0	706.6	731.5	764.6	799.2	840.6	888.7	938.4
52.5°	659.2	653.2	649.1	653.4	668.7	691.7	721.8	752.2	789.4	828.6	871.6
55°	608.0	601.2	599.0	600.5	611.8	629.9	655.4	683.3	711.1	743.5	773.6
57.5°	557.6	546.5	544.4	543.7	551.5	568.0	589.4	613.5	633.8	653.4	685.4
60°	524.5	511.0	506.4	505.7	511.7	525.3	544.8	568.9	583.2	596.7	624.6
62.5°	489.0	476.1	466.1	467.2	472.6	485.5	502.7	520.2	529.6	544.4	563.2
65°	434.2	417.6	410.1	407.8	410.9	421.4	435.0	446.3	456.8	462.8	480.9
67.5°	379.5	365.6	354.5	351.8	350.3	357.6	368.7	375.5	383.0	388.3	399.0
70°	340.9	328.9	315.3	310.8	310.0	316.0	326.6	327.3	337.9	340.2	351.5
72.5°	302.9	287.9	278.6	274.1	270.9	276.4	283.2	285.2	291.0	295.0	300.9
75°	243.8	232.5	223.5	216.7	214.4	217.4	217.4	221.2	225.0	227.2	234.0
77.5°	191.9	179.0	168.2	164.4	161.6	159.7	161.4	163.6	161.8	165.7	167.2
80°	155.8	142.2	133.9	132.4	127.9	124.1	123.4	125.6	122.6	124.1	128.7
82.5°	120.3	111.5	102.6	101.1	95.4	93.5	92.7	91.3	91.3	91.0	92.0
85°	71.4	66.3	60.2	56.5	54.2	50.4	50.4	48.9	47.4	45.9	46.7
87.5°	32.3	30.9	27.7	25.6	24.1	21.5	21.1	18.9	18.0	17.1	16.1
90°	17.2	16.2	14.9	13.6	12.3	10.9	9.4	7.6	5.8	4.1	2.2
92.5°	16.6	15.6	14.3	13.0	11.7	10.4	9.7	9.6	9.5	9.4	9.3
95°	17.2	16.2	16.0	15.9	15.7	15.6	18.3	23.8	29.4	35.0	40.5
97.5°	19.5	19.4	37.7	56.0	74.3	92.6	100.0	96.5	93.0	89.5	86.1
100°	29.6	32.4	55.0	77.7	100.2	122.8	132.6	129.7	126.8	123.9	120.8
102.5°	126.2	156.3	159.2	162.1	165.0	168.1	168.4	166.3	164.1	161.9	159.8
105°	231.4	229.9	229.1	228.3	227.4	226.7	225.7	224.8	223.8	222.8	221.8
107.5°	287.4	286.7	285.6	284.5	283.3	282.2	281.4	281.0	280.4	279.9	279.5
110°	325.4	325.0	324.0	323.0	322.1	321.0	320.4	319.8	319.3	318.9	318.4



TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	362.1	362.1	361.7	361.2	360.8	360.3	359.7	358.7	357.9	356.9	356.1
115°	415.9	415.7	415.8	415.9	416.1	416.3	416.1	415.7	415.2	414.6	414.2
117.5°	471.0	471.1	470.7	470.3	470.0	469.7	469.1	468.4	467.8	467.1	466.5
120°	504.4	504.1	504.3	504.4	504.5	504.7	504.4	503.9	503.2	502.6	501.9
122.5°	537.9	537.7	537.4	537.2	537.0	536.8	536.5	536.0	535.6	535.3	534.9
125°	584.2	583.7	584.0	584.4	584.7	584.9	584.8	584.2	583.5	582.9	582.2
127.5°	631.0	631.1	630.4	629.6	628.9	628.1	627.6	627.5	627.4	627.2	627.0
130°	659.0	658.8	658.4	657.9	657.3	656.9	656.6	656.4	656.2	656.1	655.9
132.5°	686.7	686.5	685.9	685.3	684.7	684.1	683.6	683.3	683.1	682.7	682.4
135°	724.7	724.4	723.8	723.1	722.5	721.8	721.6	721.7	721.9	722.1	722.3
137.5°	761.4	761.0	760.3	759.6	758.8	758.1	757.7	757.6	757.6	757.5	757.4
140°	783.9	783.3	783.1	782.8	782.4	782.1	781.7	781.5	781.1	780.8	780.4
142.5°	805.0	804.6	804.5	804.3	804.0	803.8	803.4	802.9	802.3	801.6	801.1
145°	835.2	835.0	835.0	835.0	835.0	835.0	834.7	834.2	833.8	833.3	832.7
147.5°	861.5	861.4	861.5	861.7	861.9	862.0	861.7	860.7	859.8	858.9	858.0
150°	878.4	878.4	878.6	878.8	878.9	879.1	878.8	878.3	877.6	876.9	876.3
152.5°	892.9	892.6	892.9	893.2	893.5	893.8	893.7	893.2	892.6	892.1	891.6
155°	912.3	911.6	912.1	912.6	913.1	913.6	913.8	913.6	913.4	913.2	913.1
157.5°	929.2	928.3	928.9	929.4	929.9	930.5	930.9	930.9	931.0	931.1	931.2
160°	939.9	938.9	939.1	939.2	939.4	939.5	939.9	940.4	940.8	941.3	941.9
162.5°	948.8	947.7	947.9	948.1	948.2	948.4	948.8	949.4	950.0	950.6	951.3
165°	960.8	959.5	959.5	959.5	959.5	959.5	960.0	960.7	961.6	962.4	963.2
167.5°	969.8	968.4	968.5	968.6	968.7	968.7	969.2	970.1	970.9	971.8	972.6
170°	975.5	974.3	974.1	973.9	973.7	973.6	974.0	975.0	976.0	976.9	978.0
172.5°	979.1	977.8	977.6	977.5	977.3	977.1	977.6	978.5	979.5	980.5	981.5
175°	983.1	981.7	981.5	981.3	981.2	981.0	981.4	982.4	983.4	984.3	985.3
177.5°	985.1	984.1	983.9	983.6	983.4	983.1	983.4	984.3	985.2	986.2	987.1
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1828.6	1834.7	1842.5	1855.8	1860.6	1866.6	1875.0	1874.4	1876.8	1885.8	1905.2
5°	1835.4	1858.8	1881.3	1908.5	1937.0	1955.9	1981.4	1997.2	2013.1	2033.3	2067.9
7.5°	1838.1	1875.2	1916.6	1964.2	2006.4	2055.2	2093.3	2129.1	2161.4	2204.3	2245.6
10°	1833.9	1883.6	1937.0	1997.2	2061.2	2115.3	2164.3	2220.0	2267.4	2319.3	2366.0
12.5°	1826.1	1886.0	1957.5	2025.0	2099.7	2179.8	2240.8	2297.1	2360.1	2419.9	2491.8
15°	1808.4	1890.4	1973.9	2062.7	2162.8	2255.3	2343.4	2416.4	2484.2	2573.7	2667.8
17.5°	1785.7	1874.2	1979.6	2087.1	2191.7	2297.5	2406.5	2516.2	2601.7	2712.9	2786.5
20°	1764.7	1867.1	1975.4	2103.4	2207.9	2339.7	2448.0	2554.1	2671.5	2782.1	2870.1
22.5°	1735.2	1847.2	1962.2	2089.5	2227.2	2358.9	2484.2	2599.2	2716.7	2837.0	2943.7
25°	1697.7	1799.3	1935.5	2080.0	2217.0	2359.9	2503.7	2648.2	2774.6	2901.8	3001.1
27.5°	1633.9	1762.2	1889.0	2038.2	2190.4	2352.1	2505.8	2657.0	2789.5	2894.1	2955.6
30°	1601.4	1712.8	1850.5	2000.3	2165.0	2338.9	2499.2	2647.4	2770.9	2854.4	2879.2
32.5°	1553.2	1668.2	1802.9	1958.1	2132.5	2311.2	2478.1	2617.9	2720.8	2764.7	2734.7
35°	1481.8	1585.6	1721.8	1880.6	2061.9	2252.3	2417.2	2535.3	2587.9	2546.6	2443.4
37.5°	1396.0	1498.9	1635.7	1791.7	1979.3	2172.8	2321.9	2406.9	2389.4	2286.5	2132.9
40°	1335.8	1432.1	1562.3	1730.8	1913.7	2107.9	2238.8	2284.7	2236.6	2089.1	1925.7
42.5°	1268.9	1362.8	1493.6	1656.1	1849.9	2029.0	2143.1	2146.8	2066.1	1889.8	1725.9
45°	1167.2	1256.7	1380.2	1549.4	1728.6	1897.1	1972.4	1935.5	1786.5	1616.5	1451.6
47.5°	1066.8	1144.4	1266.0	1426.8	1596.9	1738.8	1776.1	1709.8	1551.0	1385.9	1233.1
50°	993.3	1071.6	1186.0	1339.5	1503.5	1626.3	1644.3	1556.2	1400.4	1234.2	1114.5
52.5°	922.9	1000.6	1110.8	1252.8	1403.1	1513.6	1514.3	1412.4	1257.2	1108.9	997.7
55°	819.5	889.5	988.8	1116.0	1250.0	1336.5	1315.4	1210.0	1075.3	946.7	849.6
57.5°	719.9	780.8	872.3	978.5	1096.5	1167.8	1132.8	1031.4	911.2	802.0	728.5
60°	655.4	713.4	791.6	891.7	991.1	1046.8	1013.7	921.9	811.2	723.2	659.2
62.5°	592.9	641.8	717.0	803.9	896.0	937.2	907.7	817.1	721.5	641.9	590.0
65°	504.2	544.1	604.3	678.8	745.7	781.2	756.3	672.0	599.0	541.9	500.4
67.5°	421.4	452.6	498.1	557.9	614.8	634.0	611.3	552.7	490.8	445.1	415.8
70°	364.2	393.6	432.0	477.9	527.5	547.8	525.3	478.6	428.2	386.1	357.4
72.5°	314.2	337.0	369.4	408.6	447.4	467.8	452.4	407.6	365.0	333.7	309.2
75°	239.3	258.9	281.4	309.2	339.4	353.0	339.4	308.5	279.2	255.9	238.6
77.5°	174.0	184.5	202.0	222.7	241.6	251.9	240.3	219.3	201.4	185.4	176.8
80°	132.4	140.0	152.0	168.5	181.3	191.1	183.6	166.3	152.0	141.5	137.7
82.5°	96.3	101.4	109.2	121.6	130.2	135.2	131.9	119.3	113.5	104.2	100.4
85°	47.4	50.4	55.7	59.5	67.0	67.8	68.5	63.2	58.0	55.7	52.7
87.5°	17.1	18.0	20.2	22.3	25.1	25.9	25.6	25.8	23.8	23.3	21.1
90°	4.1	5.8	7.6	9.4	10.9	12.3	13.6	14.9	16.2	17.2	18.2
92.5°	9.4	9.5	9.6	9.7	10.4	11.7	13.0	14.3	15.6	16.6	17.6
95°	35.0	29.4	23.8	18.3	15.6	15.7	15.9	16.0	16.2	17.2	18.2
97.5°	89.5	93.0	96.5	100.0	92.6	74.3	56.0	37.7	19.4	19.5	19.7
100°	123.9	126.8	129.7	132.6	122.8	100.2	77.7	55.0	32.4	29.6	26.9
102.5°	161.9	164.1	166.3	168.4	168.1	165.0	162.1	159.2	156.3	126.2	96.1
105°	222.8	223.8	224.8	225.7	226.7	227.4	228.3	229.1	229.9	231.4	232.9
107.5°	279.9	280.4	281.0	281.4	282.2	283.3	284.5	285.6	286.7	287.4	288.1
110°	318.9	319.3	319.8	320.4	321.0	322.1	323.0	324.0	325.0	325.4	325.6





TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	356.9	357.9	358.7	359.7	360.3	360.8	361.2	361.7	362.1	362.1	362.0
115°	414.6	415.2	415.7	416.1	416.3	416.1	415.9	415.8	415.7	415.9	416.3
117.5°	467.1	467.8	468.4	469.1	469.7	470.0	470.3	470.7	471.1	471.0	470.9
120°	502.6	503.2	503.9	504.4	504.7	504.5	504.4	504.3	504.1	504.4	504.7
122.5°	535.3	535.6	536.0	536.5	536.8	537.0	537.2	537.4	537.7	537.9	538.1
125°	582.9	583.5	584.2	584.8	584.9	584.7	584.4	584.0	583.7	584.2	584.7
127.5°	627.2	627.4	627.5	627.6	628.1	628.9	629.6	630.4	631.1	631.0	630.9
130°	656.1	656.2	656.4	656.6	656.9	657.3	657.9	658.4	658.8	659.0	659.2
132.5°	682.7	683.1	683.3	683.6	684.1	684.7	685.3	685.9	686.5	686.7	686.9
135°	722.1	721.9	721.7	721.6	721.8	722.5	723.1	723.8	724.4	724.7	725.1
137.5°	757.5	757.6	757.6	757.7	758.1	758.8	759.6	760.3	761.0	761.4	761.7
140°	780.8	781.1	781.5	781.7	782.1	782.4	782.8	783.1	783.3	783.9	784.4
142.5°	801.6	802.3	802.9	803.4	803.8	804.0	804.3	804.5	804.6	805.0	805.3
145°	833.3	833.8	834.2	834.7	835.0	835.0	835.0	835.0	835.0	835.2	835.3
147.5°	858.9	859.8	860.7	861.7	862.0	861.9	861.7	861.5	861.4	861.5	861.7
150°	876.9	877.6	878.3	878.8	879.1	878.9	878.8	878.6	878.4	878.4	878.4
152.5°	892.1	892.6	893.2	893.7	893.8	893.5	893.2	892.9	892.6	892.9	893.2
155°	913.2	913.4	913.6	913.8	913.6	913.1	912.6	912.1	911.6	912.3	912.9
157.5°	931.1	931.0	930.9	930.9	930.5	929.9	929.4	928.9	928.3	929.2	930.0
160°	941.3	940.8	940.4	939.9	939.5	939.4	939.2	939.1	938.9	939.9	940.8
162.5°	950.6	950.0	949.4	948.8	948.4	948.2	948.1	947.9	947.7	948.8	949.7
165°	962.4	961.6	960.7	960.0	959.5	959.5	959.5	959.5	959.5	960.8	962.1
167.5°	971.8	970.9	970.1	969.2	968.7	968.7	968.6	968.5	968.4	969.8	971.3
170°	976.9	976.0	975.0	974.0	973.6	973.7	973.9	974.1	974.3	975.5	976.9
172.5°	980.5	979.5	978.5	977.6	977.1	977.3	977.5	977.6	977.8	979.1	980.4
175°	984.3	983.4	982.4	981.4	981.0	981.2	981.3	981.5	981.7	983.1	984.6
177.5°	986.2	985.2	984.3	983.4	983.1	983.4	983.6	983.9	984.1	985.1	986.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1914.8	1916.0	1921.4	1925.6	1926.8	1932.8	1933.4
5°	2083.0	2095.8	2120.6	2122.9	2126.7	2146.3	2131.2
7.5°	2280.2	2312.7	2334.4	2353.5	2360.4	2369.0	2367.2
10°	2406.6	2454.8	2478.9	2517.2	2518.8	2528.6	2522.5
12.5°	2533.6	2589.6	2633.6	2640.6	2672.9	2677.9	2686.2
15°	2713.7	2773.1	2834.0	2855.9	2900.3	2910.9	2927.3
17.5°	2882.9	2943.7	2986.4	3042.8	3061.0	3085.4	3068.8
20°	2975.5	3041.8	3096.0	3140.4	3159.1	3172.7	3171.2
22.5°	3031.5	3098.3	3142.2	3175.9	3193.4	3199.2	3198.9
25°	3066.6	3104.9	3118.5	3131.3	3111.7	3104.9	3107.9
27.5°	2969.1	2959.1	2923.8	2877.4	2829.2	2791.0	2770.2
30°	2834.8	2776.1	2722.7	2629.3	2581.2	2552.6	2527.1
32.5°	2644.6	2551.6	2448.7	2363.2	2308.5	2266.1	2259.7
35°	2318.6	2178.6	2053.0	1948.3	1894.1	1848.2	1837.7
37.5°	1971.2	1825.8	1712.6	1620.5	1562.3	1529.9	1499.7
40°	1740.6	1615.7	1504.3	1426.1	1381.7	1358.3	1339.5
42.5°	1563.0	1449.0	1338.1	1278.6	1238.4	1224.1	1213.1
45°	1317.7	1211.5	1134.8	1089.7	1066.3	1042.3	1031.0
47.5°	1121.2	1034.9	984.3	945.9	921.0	906.6	899.5
50°	1009.9	939.1	894.0	864.7	842.1	830.8	824.8
52.5°	911.2	853.1	815.1	791.8	776.5	768.2	765.8
55°	784.9	740.5	716.4	696.1	684.9	677.3	674.3
57.5°	682.2	648.1	628.5	611.8	607.5	601.2	599.0
60°	614.8	588.5	571.9	560.6	556.9	549.3	550.8
62.5°	555.3	533.7	519.5	513.1	508.1	501.8	503.9
65°	469.6	453.7	446.3	440.3	434.2	430.5	433.5
67.5°	394.0	383.2	373.0	369.5	366.5	365.9	362.7
70°	344.7	335.6	326.6	324.3	324.3	321.3	320.6
72.5°	297.1	290.5	284.5	282.8	280.4	281.6	278.4
75°	229.5	224.2	222.0	219.7	219.0	219.0	216.7
77.5°	169.7	165.7	162.1	162.1	159.4	158.3	158.1
80°	128.7	127.1	124.1	124.1	122.6	123.4	121.9
82.5°	96.8	94.6	94.1	92.8	90.8	90.9	89.4
85°	51.9	49.7	48.9	46.7	45.1	46.7	45.1
87.5°	21.9	21.5	21.0	19.9	19.3	19.4	17.6
90°	19.1	20.2	20.8	21.1	21.5	21.8	22.1
92.5°	18.6	19.5	20.1	20.2	20.2	20.3	20.4
95°	19.1	20.2	20.7	20.9	21.0	21.2	21.4
97.5°	19.8	19.9	20.0	20.2	20.3	20.5	20.6
100°	24.0	21.3	20.0	20.2	20.3	20.5	20.6
102.5°	66.2	36.1	21.1	21.1	21.1	21.2	21.2
105°	234.3	235.8	233.7	227.7	221.8	215.9	210.0
107.5°	288.8	289.5	290.2	290.9	291.4	292.1	292.8
110°	326.0	326.3	326.7	327.3	327.7	328.2	328.7



TEST NUMBER: P332688-830

CATALOG NUMBER: SA4XXDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	361.9	361.8	362.1	362.8	363.4	364.0	364.7
115°	416.6	417.0	417.2	417.2	417.2	417.2	417.2
117.5°	470.9	470.8	470.7	470.7	470.6	470.5	470.5
120°	505.1	505.4	505.4	505.1	504.7	504.4	504.1
122.5°	538.3	538.5	538.4	538.1	537.7	537.4	537.1
125°	585.1	585.6	586.0	586.2	586.3	586.4	586.6
127.5°	630.8	630.7	630.7	630.5	630.4	630.3	630.1
130°	659.3	659.5	659.6	659.6	659.6	659.6	659.6
132.5°	687.0	687.2	687.2	687.1	686.9	686.8	686.7
135°	725.4	725.8	726.0	726.4	726.7	727.1	727.4
137.5°	762.0	762.4	762.5	762.4	762.3	762.2	762.1
140°	784.9	785.3	785.7	785.9	786.0	786.2	786.4
142.5°	805.7	806.1	806.3	806.3	806.3	806.3	806.3
145°	835.5	835.7	835.8	836.2	836.5	836.9	837.2
147.5°	861.8	861.9	862.0	862.2	862.3	862.5	862.7
150°	878.4	878.4	878.5	878.7	878.8	879.0	879.2
152.5°	893.4	893.6	893.7	893.6	893.5	893.4	893.3
155°	913.6	914.3	914.4	913.8	913.3	912.9	912.4
157.5°	930.9	931.7	931.7	930.9	930.0	929.2	928.3
160°	941.9	942.8	942.8	941.9	940.8	939.9	938.9
162.5°	950.6	951.7	951.6	950.5	949.3	948.3	947.2
165°	963.5	964.8	964.7	963.2	961.8	960.3	958.8
167.5°	972.7	974.1	974.0	972.4	970.7	969.1	967.5
170°	978.2	979.5	979.3	977.7	976.1	974.4	972.8
172.5°	981.8	983.1	982.8	981.1	979.3	977.5	975.7
175°	986.1	987.5	987.3	985.3	983.4	981.4	979.4
177.5°	987.3	988.4	988.1	986.5	985.0	983.4	981.8
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3

(END OF REPORT)