

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: P332987-830

Luminaire Tested: **SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332987-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5955.4 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct

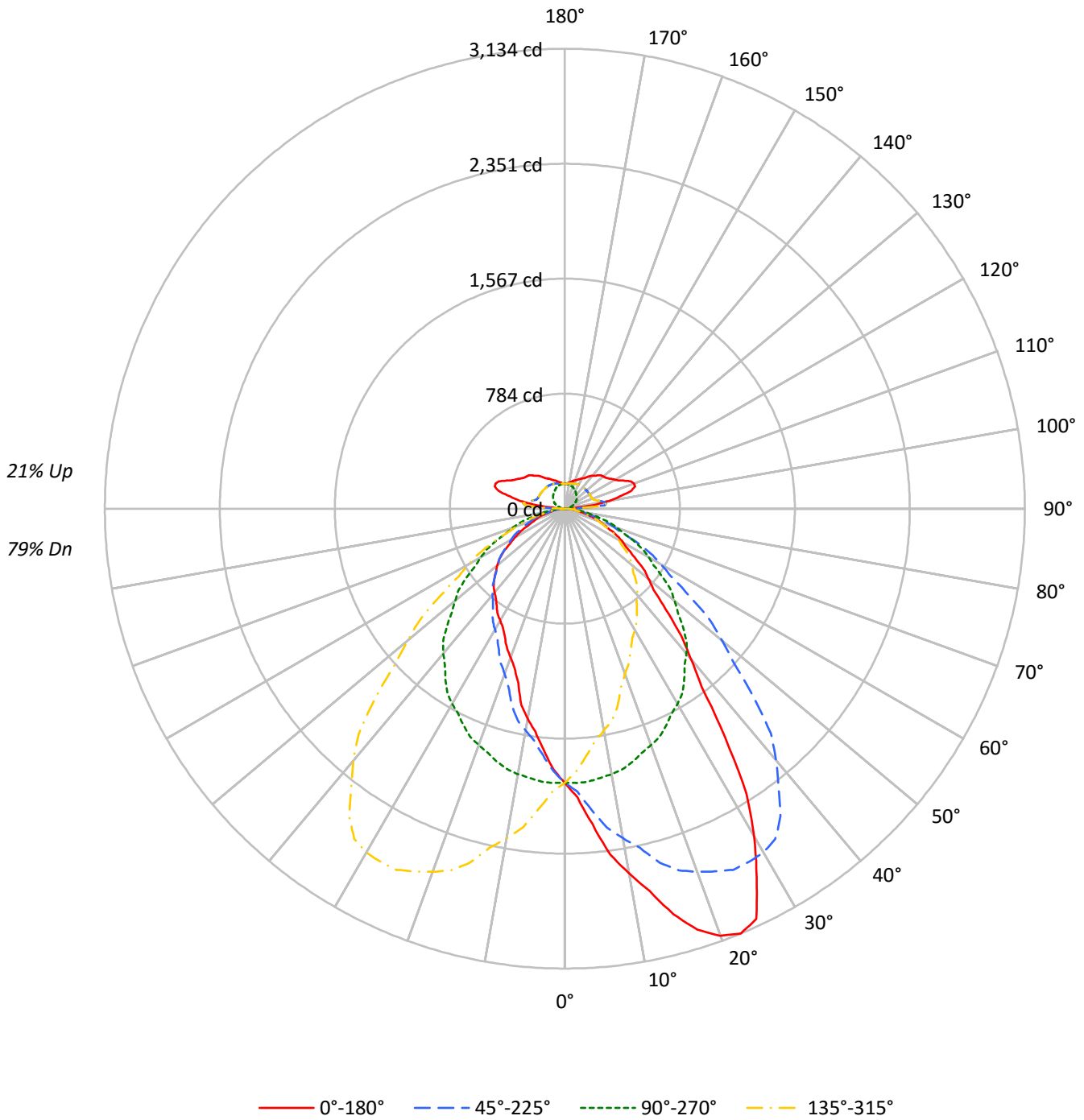
Input Watts (W): 49.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

### Luminous Intensity Polar Plot





TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-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	109	109	109	109	100	100	100	91	91	91	83	83	83	79
1	105	101	97	94	100	97	93	90	89	86	84	81	79	77	75	73	72	68
2	96	89	83	78	92	85	80	75	79	74	70	72	69	66	67	64	61	58
3	88	79	72	66	84	76	69	64	70	65	60	65	60	57	60	56	53	50
4	81	70	62	56	77	68	60	55	63	57	52	58	53	49	54	50	46	44
5	75	63	55	49	71	61	53	48	57	50	45	52	47	43	49	44	41	38
6	69	57	49	43	66	55	48	42	51	45	40	48	42	38	44	40	36	34
7	64	52	44	38	62	50	43	37	47	40	36	44	38	34	41	36	32	30
8	60	47	40	34	57	46	38	33	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	27	37	30	26	34	29	25	32	28	24	22

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

	0°	90°	180°	270°
0°	15079	15079	15079	15079
5°	17490	15124	13367	15124
10°	20690	15058	11931	15058
15°	23901	14919	10252	14919
20°	26611	14728	9271	14728
25°	27470	14539	8607	14539
30°	24047	14311	8207	14311
35°	18719	13973	7965	13973
40°	14037	13585	7835	13585
45°	11082	12965	7767	12965
50°	9357	12248	7542	12248
55°	8156	11461	7139	11461
60°	7338	10643	6318	10643
65°	6470	9761	5435	9761
70°	5828	8847	4902	8847
75°	4885	7842	4177	7842
80°	4128	6681	3919	6681
85°	3483	5233	3483	5233



TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.0	3.0
10°-20°	545.9	9.2
20°-30°	853.8	14.3
30°-40°	949.2	15.9
40°-50°	842.2	14.1
50°-60°	656.2	11.0
60°-70°	429.6	7.2
70°-80°	211.3	3.5
80°-90°	53.1	0.9
90°-100°	122.5	2.1
100°-110°	254.9	4.3
110°-120°	228.3	3.8
120°-130°	192.0	3.2
130°-140°	160.1	2.7
140°-150°	122.3	2.1
150°-160°	86.0	1.4
160°-170°	50.6	0.8
170°-180°	16.5	0.3
0°-30°	1580.7	26.5
0°-40°	2529.9	42.5
0°-60°	4028.3	67.6
0°-90°	4722.3	79.3
90°-120°	605.7	10.2
90°-150°	1080.2	18.1
90°-180°	1233.0	20.7
0°-180°	5955.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1868	1868	1868	1868	1868	
5°	2158	1866	1650	1866	2158	218
15°	2860	1785	1227	1785	2860	813
25°	3084	1632	966	1632	3084	1368
35°	1899	1418	808	1418	1899	1191
45°	971	1136	680	1136	971	769
55°	580	814	507	814	580	527
65°	339	511	284	511	339	341
75°	157	251	134	251	157	172
85°	38	56	38	56	38	43
90°	7	0	7	0	7	7
95°	81	11	81	11	81	126
105°	469	39	469	39	469	463
115°	450	69	450	69	450	447
125°	359	96	359	96	359	326
135°	321	114	321	114	321	248
145°	262	131	262	131	262	166
155°	220	149	220	149	220	102
165°	192	162	192	162	192	55
175°	173	169	173	169	173	17
180°	170	170	170	170	170	



TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1970.1	1975.6	1970.1	1969.5	1963.5	1961.7	1959.3	1951.4	1937.0	1928.6	1930.4
5°	2158.2	2177.1	2166.5	2165.0	2148.5	2131.9	2121.4	2097.3	2071.7	2054.5	2040.1
7.5°	2375.9	2386.7	2380.1	2369.6	2342.8	2327.6	2303.2	2271.4	2225.5	2190.5	2158.4
10°	2524.0	2533.0	2530.1	2510.5	2490.9	2451.0	2428.5	2384.1	2326.1	2280.2	2237.3
12.5°	2669.7	2679.4	2652.9	2653.7	2616.7	2585.3	2549.5	2493.6	2426.7	2367.5	2313.8
15°	2859.7	2847.6	2847.6	2832.5	2791.2	2747.5	2710.7	2651.9	2567.7	2496.9	2422.4
17.5°	3008.3	3012.6	3006.3	2970.9	2938.4	2893.2	2825.6	2757.1	2678.9	2583.9	2507.7
20°	3097.5	3097.5	3090.7	3066.6	3024.4	2976.3	2903.3	2828.8	2729.4	2633.8	2548.1
22.5°	3133.6	3135.9	3128.0	3108.1	3070.2	3023.2	2961.1	2885.4	2783.0	2675.4	2569.2
25°	3083.9	3098.2	3099.6	3094.5	3083.2	3054.5	3001.1	2923.6	2831.8	2715.2	2600.8
27.5°	2831.3	2849.4	2865.2	2891.2	2925.8	2943.9	2946.3	2906.9	2826.8	2714.5	2599.4
30°	2579.6	2594.7	2643.6	2707.6	2757.3	2802.5	2841.6	2852.1	2807.0	2706.1	2584.9
32.5°	2300.4	2320.8	2369.7	2438.5	2521.3	2597.7	2685.7	2730.5	2729.3	2668.8	2556.6
35°	1899.4	1914.5	1959.6	2031.8	2131.2	2244.9	2384.1	2492.4	2566.2	2560.9	2492.4
37.5°	1531.8	1548.9	1594.5	1654.4	1750.7	1891.4	2026.1	2175.4	2311.8	2388.4	2365.5
40°	1332.0	1332.8	1377.1	1438.9	1529.2	1651.8	1798.6	1964.1	2116.1	2240.3	2264.4
42.5°	1174.2	1174.4	1203.7	1270.3	1335.3	1450.8	1590.8	1755.2	1933.2	2076.5	2140.3
45°	970.7	977.5	1001.6	1041.5	1092.7	1190.5	1302.6	1455.4	1654.8	1824.9	1931.0
47.5°	822.1	832.0	847.3	879.9	920.7	985.8	1078.6	1215.8	1378.0	1565.1	1716.1
50°	745.0	746.5	766.1	784.1	819.5	871.5	952.7	1067.1	1216.1	1395.9	1563.8
52.5°	678.8	678.4	690.2	713.1	741.9	782.3	847.9	952.1	1084.2	1245.5	1418.7
55°	579.5	583.2	592.2	610.3	632.2	660.7	712.7	790.9	894.8	1032.5	1189.8
57.5°	503.9	505.9	512.9	520.6	540.6	561.4	600.4	654.7	742.3	855.1	1001.6
60°	454.5	455.2	457.5	468.8	484.7	504.2	530.6	576.5	650.2	753.3	869.2
62.5°	406.3	407.7	411.2	419.4	431.7	445.2	472.8	509.6	570.7	658.7	763.2
65°	338.7	339.4	344.7	347.7	357.4	369.5	389.8	414.6	456.8	530.6	609.5
67.5°	283.0	283.0	283.2	287.3	294.1	302.1	314.2	334.1	365.9	411.2	480.9
70°	246.9	246.9	248.4	250.6	254.4	261.1	267.9	283.0	306.3	343.2	396.6
72.5°	213.1	213.7	215.2	215.7	217.6	223.2	228.2	237.8	255.1	283.0	326.1
75°	156.6	158.8	162.6	165.6	169.3	168.5	173.8	179.8	185.1	201.7	226.5
77.5°	116.5	115.3	115.7	118.3	118.8	119.5	123.3	127.9	131.9	139.7	148.5
80°	88.8	88.8	91.0	91.8	91.0	91.8	95.6	97.8	99.3	102.4	110.7
82.5°	67.1	68.3	67.6	68.3	68.8	69.6	72.7	73.1	74.6	75.9	79.4
85°	37.6	38.4	39.1	37.6	37.6	37.6	39.1	39.9	41.4	40.6	42.1
87.5°	14.6	14.0	14.7	14.6	15.2	14.6	15.1	16.2	15.0	15.6	15.6
90°	7.0	7.0	7.4	7.0	6.7	6.7	6.3	6.0	5.7	6.0	5.4
92.5°	25.6	25.6	26.8	28.6	32.5	39.2	49.2	65.4	88.0	105.7	92.5
95°	81.2	85.6	91.6	101.9	118.3	150.5	195.2	246.9	279.2	271.5	204.9
97.5°	217.3	224.2	234.2	254.2	278.1	312.9	345.5	364.7	350.7	286.0	191.7
100°	305.5	308.1	318.1	338.5	367.4	392.1	408.4	401.7	353.1	267.9	173.9
102.5°	382.2	384.4	394.9	409.6	427.3	437.6	432.9	399.9	333.1	245.2	161.9
105°	468.7	470.7	475.3	478.1	477.4	463.7	430.7	373.1	296.8	218.5	151.6
107.5°	500.8	499.9	496.6	489.0	472.6	442.8	396.4	335.1	267.5	203.6	149.7
110°	501.3	498.3	492.4	478.3	454.7	418.1	369.8	312.2	252.9	198.5	150.2



TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	485.6	480.8	472.4	455.4	428.6	391.9	346.3	295.3	244.6	196.1	151.8
115°	450.1	447.4	436.7	416.7	390.4	358.4	319.4	278.5	236.9	194.9	154.9
117.5°	414.0	411.9	401.1	384.4	361.9	334.8	304.2	270.2	233.4	194.5	158.2
120°	393.8	390.1	381.4	366.7	347.8	324.1	297.5	266.5	231.5	194.5	160.6
122.5°	377.8	374.1	366.7	354.2	338.2	317.4	293.2	263.3	229.4	194.3	163.0
125°	359.1	357.1	350.8	341.1	327.8	309.4	286.4	257.9	225.8	193.9	166.5
127.5°	348.2	346.2	340.8	332.2	318.9	301.5	278.5	251.2	221.1	193.1	169.5
130°	341.8	339.8	334.4	326.1	312.5	294.8	272.2	245.8	218.2	192.8	171.5
132.5°	334.6	332.6	327.5	318.1	304.7	287.1	264.9	240.3	215.6	192.7	173.4
135°	321.1	319.1	313.8	304.4	291.2	274.5	254.2	232.5	211.5	192.2	176.3
137.5°	304.4	302.1	297.7	288.5	276.0	261.0	243.8	225.6	208.1	192.2	177.9
140°	292.5	289.8	285.1	277.9	266.2	252.1	237.1	221.5	206.2	191.9	179.2
142.5°	279.7	277.9	273.7	266.9	256.6	244.4	231.6	217.8	204.6	191.9	180.3
145°	262.1	260.5	257.1	251.5	243.2	233.8	223.9	212.5	201.9	191.2	180.9
147.5°	246.7	246.0	243.6	238.7	232.5	225.2	217.2	208.2	199.4	190.0	181.3
150°	237.8	237.5	235.5	231.2	225.8	219.9	213.2	205.6	197.6	189.2	181.3
152.5°	229.9	229.5	228.3	224.8	220.3	215.4	209.2	202.6	195.4	187.8	180.7
155°	219.5	219.5	218.5	215.8	212.5	208.5	203.5	198.2	192.2	185.9	179.9
157.5°	210.5	210.5	209.9	207.8	205.4	202.2	197.9	193.5	189.0	183.8	179.0
160°	204.9	204.9	204.5	202.6	200.6	197.8	194.2	190.6	186.5	182.2	178.2
162.5°	199.5	199.8	199.4	197.5	196.0	193.6	190.8	187.7	184.5	180.6	177.4
165°	191.5	191.9	192.2	190.9	189.5	187.8	185.6	183.5	180.9	178.2	175.9
167.5°	185.2	185.5	185.6	184.6	184.0	183.0	181.2	179.6	177.7	175.8	174.3
170°	181.3	181.3	181.5	181.3	180.6	179.6	178.2	177.2	175.6	174.2	173.2
172.5°	177.2	177.8	178.0	177.8	177.4	176.6	175.8	175.1	173.7	172.6	172.2
175°	172.6	173.2	173.9	173.2	173.2	173.2	172.6	172.2	171.5	170.9	170.9
177.5°	169.8	170.3	170.9	170.6	170.9	170.6	170.6	170.3	170.1	169.8	169.8
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6



TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1924.4	1916.0	1911.8	1902.1	1890.6	1884.6	1879.2	1871.4	1861.1	1850.3	1842.5
5°	2022.0	2004.0	1981.4	1954.4	1930.2	1907.0	1886.6	1866.3	1843.0	1818.9	1794.8
7.5°	2122.3	2086.8	2048.4	2004.0	1960.8	1921.6	1885.4	1850.8	1811.7	1776.6	1744.6
10°	2192.2	2144.0	2090.6	2034.1	1977.6	1928.7	1880.6	1836.9	1788.8	1745.9	1709.8
12.5°	2248.7	2192.2	2127.9	2057.6	1989.7	1930.5	1875.2	1818.3	1763.5	1717.0	1668.9
15°	2342.6	2265.1	2178.6	2094.3	2006.3	1925.7	1851.2	1785.0	1722.6	1657.1	1611.2
17.5°	2407.3	2315.3	2210.1	2108.8	2004.8	1909.8	1823.8	1745.0	1672.9	1606.1	1551.4
20°	2445.7	2344.1	2227.5	2112.3	1995.7	1894.1	1801.6	1714.3	1639.7	1567.5	1511.1
22.5°	2467.4	2354.9	2227.5	2107.0	1986.1	1876.0	1774.4	1683.6	1602.4	1530.2	1467.7
25°	2474.4	2353.9	2223.7	2085.3	1952.9	1836.2	1730.8	1632.2	1541.9	1469.7	1403.4
27.5°	2464.7	2322.9	2189.6	2047.5	1910.8	1787.9	1677.3	1573.7	1483.3	1405.7	1337.8
30°	2450.2	2298.2	2155.2	2007.8	1869.3	1751.1	1634.5	1535.2	1441.1	1360.6	1292.1
32.5°	2418.9	2268.1	2114.3	1963.2	1823.0	1701.2	1590.5	1490.6	1398.4	1316.1	1243.3
35°	2356.9	2204.1	2037.1	1882.1	1744.4	1618.0	1514.1	1417.8	1329.7	1241.7	1164.9
37.5°	2275.2	2119.1	1952.9	1783.2	1645.3	1526.0	1430.7	1340.3	1254.3	1173.9	1088.9
40°	2198.2	2056.0	1884.3	1715.8	1574.3	1459.2	1371.1	1289.1	1202.6	1122.8	1037.7
42.5°	2104.9	1983.7	1810.3	1641.2	1501.5	1390.5	1308.5	1228.3	1149.6	1072.2	983.5
45°	1949.1	1857.3	1694.7	1532.2	1391.5	1281.6	1206.4	1135.6	1066.3	992.6	909.1
47.5°	1770.6	1708.4	1568.1	1401.7	1271.5	1172.6	1099.9	1042.1	983.5	909.8	836.5
50°	1646.5	1606.7	1471.2	1319.2	1195.0	1104.0	1029.4	975.2	926.3	855.6	790.1
52.5°	1514.1	1492.9	1378.5	1233.1	1113.1	1023.9	960.3	911.4	862.0	803.2	742.0
55°	1312.4	1323.7	1226.6	1101.0	988.1	912.9	854.9	814.3	772.1	722.5	675.0
57.5°	1106.3	1147.5	1082.3	971.9	866.2	796.6	753.0	718.8	683.4	642.2	601.7
60°	982.8	1017.4	980.5	883.4	790.9	726.2	685.6	659.2	623.9	586.3	555.3
62.5°	862.4	899.5	877.6	799.2	713.2	657.6	621.7	597.2	570.9	538.1	506.1
65°	711.1	735.2	724.7	670.5	609.5	562.1	529.0	511.0	486.9	462.8	434.2
67.5°	544.7	591.2	585.0	556.3	503.6	466.6	444.9	429.0	407.0	389.1	369.7
70°	447.8	490.7	489.9	466.6	438.0	403.3	388.3	374.8	355.2	337.9	322.1
72.5°	366.5	405.8	411.6	393.7	374.2	348.0	333.6	324.2	305.2	293.3	280.5
75°	256.7	285.2	292.8	292.8	283.7	270.1	257.4	251.4	237.8	227.2	219.7
77.5°	168.2	186.3	198.0	200.8	202.2	197.7	187.1	182.9	172.5	168.7	161.5
80°	118.9	130.9	144.5	149.0	152.8	151.3	146.8	143.7	133.9	130.2	127.1
82.5°	82.2	88.8	99.9	109.9	108.8	112.7	108.8	106.4	99.1	97.6	94.6
85°	42.9	43.6	45.1	51.9	55.7	57.2	58.0	56.5	54.2	54.2	48.9
87.5°	15.4	14.8	15.6	15.6	16.1	18.5	20.1	20.5	18.9	17.2	15.6
90°	4.6	4.6	2.6	2.6	2.4	2.0	1.0	0.4	1.0	2.0	2.4
92.5°	67.3	41.5	24.5	17.6	12.7	8.7	5.6	3.8	5.6	8.7	12.7
95°	125.3	70.6	41.7	27.6	19.7	15.4	12.0	11.0	12.0	15.4	19.7
97.5°	112.6	67.5	45.1	33.5	26.6	22.6	19.7	19.7	19.7	22.6	26.6
100°	105.9	68.3	48.6	38.0	31.7	27.6	25.4	25.4	25.4	27.6	31.7
102.5°	104.1	71.0	53.2	43.1	36.9	33.3	31.2	30.6	31.2	33.3	36.9
105°	104.9	77.3	61.3	51.7	45.6	41.7	40.0	39.0	40.0	41.7	45.6
107.5°	109.9	84.6	70.0	60.5	54.8	50.5	48.8	48.2	48.8	50.5	54.8
110°	113.6	90.3	75.6	66.6	60.6	56.6	55.0	54.3	55.0	56.6	60.6





TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	117.6	95.6	81.4	72.5	66.4	62.8	60.8	60.1	60.8	62.8	66.4
115°	123.9	104.0	90.6	81.6	75.3	71.9	69.7	68.6	69.7	71.9	75.3
117.5°	130.4	112.0	99.3	90.0	84.1	80.4	78.3	77.4	78.3	80.4	84.1
120°	134.9	117.6	104.9	95.6	89.9	86.2	84.0	83.3	84.0	86.2	89.9
122.5°	139.2	122.9	110.3	101.2	95.0	91.6	89.3	88.6	89.3	91.6	95.0
125°	145.5	130.3	118.3	109.0	102.6	99.0	96.9	95.6	96.9	99.0	102.6
127.5°	151.1	137.0	125.5	116.0	109.4	105.3	102.8	101.8	102.8	105.3	109.4
130°	154.6	141.6	130.3	120.6	114.2	109.2	106.6	105.3	106.6	109.2	114.2
132.5°	158.1	145.3	133.9	124.9	118.0	113.3	109.8	108.8	109.8	113.3	118.0
135°	162.6	150.5	139.6	130.9	123.9	118.3	114.9	113.6	114.9	118.3	123.9
137.5°	165.8	154.6	144.3	136.0	128.8	123.4	119.7	118.5	119.7	123.4	128.8
140°	167.9	157.2	147.2	139.2	132.2	126.6	122.9	122.0	122.9	126.6	132.2
142.5°	169.5	159.7	149.9	142.1	135.4	130.1	126.7	125.6	126.7	130.1	135.4
145°	171.3	162.2	153.5	146.3	139.9	135.3	132.0	130.9	132.0	135.3	139.9
147.5°	172.8	164.9	156.7	150.1	144.9	140.2	137.1	136.9	137.1	140.2	144.9
150°	173.5	166.3	158.9	152.6	147.6	143.5	140.9	140.5	140.9	143.5	147.6
152.5°	174.1	167.3	160.8	155.0	150.5	146.8	144.1	144.0	144.1	146.8	150.5
155°	174.6	168.9	163.2	158.3	154.6	151.3	149.2	148.9	149.2	151.3	154.6
157.5°	174.6	170.0	165.2	161.3	158.1	155.5	153.6	153.6	153.6	155.5	158.1
160°	174.6	170.6	166.5	162.9	160.2	157.9	156.6	156.6	156.6	157.9	160.2
162.5°	174.6	171.1	167.4	164.5	162.1	160.0	159.0	159.2	159.0	160.0	162.1
165°	173.9	171.3	168.2	166.3	164.6	162.9	162.2	162.2	162.2	162.9	164.6
167.5°	173.1	171.2	169.0	167.4	166.5	165.2	164.9	165.2	164.9	165.2	166.5
170°	172.6	170.9	169.2	168.2	167.6	166.5	166.3	166.5	166.3	166.5	167.6
172.5°	172.0	170.6	169.5	168.7	168.3	167.6	167.6	167.9	167.6	167.6	168.3
175°	171.3	170.2	169.6	169.6	169.2	168.9	168.9	169.2	168.9	168.9	169.2
177.5°	170.3	169.8	169.6	169.6	169.6	169.3	169.6	169.8	169.6	169.3	169.6
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6



TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1834.1	1828.1	1820.2	1811.2	1800.4	1790.7	1786.5	1790.2	1792.0	1787.2	1786.5
5°	1778.2	1759.4	1744.4	1721.8	1703.7	1688.7	1678.2	1673.7	1675.2	1663.1	1660.1
7.5°	1715.5	1693.2	1668.5	1641.7	1616.7	1594.6	1583.0	1576.7	1564.0	1558.5	1549.4
10°	1675.2	1645.0	1621.0	1589.3	1560.8	1534.5	1521.6	1511.1	1498.3	1492.2	1479.5
12.5°	1633.6	1598.6	1572.2	1539.4	1510.1	1478.5	1466.2	1446.7	1426.6	1414.0	1397.6
15°	1575.1	1533.0	1500.5	1461.4	1426.8	1390.7	1358.3	1322.2	1308.6	1280.1	1263.5
17.5°	1506.6	1463.9	1423.8	1371.3	1317.9	1273.0	1238.5	1203.9	1183.2	1164.9	1156.5
20°	1461.4	1422.3	1366.6	1305.6	1246.2	1196.6	1168.7	1146.1	1123.5	1110.8	1101.7
22.5°	1418.7	1368.7	1304.0	1238.2	1178.7	1139.9	1116.3	1093.2	1074.8	1062.6	1050.6
25°	1347.1	1281.6	1213.1	1137.8	1097.2	1063.4	1037.7	1018.9	1007.7	991.8	985.8
27.5°	1273.5	1194.1	1118.6	1068.0	1025.7	994.7	972.4	958.3	944.0	933.9	926.0
30°	1216.8	1136.3	1068.6	1020.4	977.5	952.0	933.9	917.4	906.1	897.8	891.7
32.5°	1160.8	1080.3	1023.4	971.7	937.8	912.9	893.5	881.2	872.3	861.7	858.0
35°	1079.9	1008.4	958.8	912.1	877.4	854.9	839.8	827.1	819.5	816.5	814.3
37.5°	1002.1	943.5	890.1	851.9	821.0	803.2	785.5	779.2	774.0	768.6	771.1
40°	952.7	897.8	850.4	809.7	784.9	765.3	754.8	747.2	742.7	742.7	742.7
42.5°	909.9	856.2	810.0	773.6	748.8	732.3	720.5	714.2	712.7	712.1	715.7
45°	843.6	793.9	747.2	717.2	696.1	679.6	672.8	667.5	667.5	670.5	671.3
47.5°	777.8	731.3	693.8	660.2	640.8	630.5	624.6	621.9	622.2	625.2	628.7
50°	737.4	691.5	654.7	624.6	606.5	596.7	591.4	590.0	591.4	591.4	596.7
52.5°	693.5	652.4	616.1	590.9	570.4	561.3	558.4	556.3	557.1	559.6	561.8
55°	629.1	592.2	557.6	533.6	518.5	512.5	505.7	506.4	504.9	506.4	506.4
57.5°	564.6	531.4	499.3	480.1	466.8	458.2	450.7	452.9	450.6	450.3	449.1
60°	523.0	486.9	461.3	444.0	429.0	421.4	414.6	416.1	413.9	412.4	409.3
62.5°	477.9	447.8	423.4	406.7	394.6	385.9	379.1	377.6	372.4	367.2	360.6
65°	412.4	387.6	365.7	350.0	338.7	331.9	326.6	322.1	310.8	298.8	292.8
67.5°	348.7	330.8	310.5	297.1	287.9	279.1	269.0	261.3	250.7	244.1	240.3
70°	307.7	290.5	273.1	260.3	250.6	242.3	231.0	225.7	218.2	215.2	211.5
72.5°	268.6	252.5	236.5	224.9	214.4	208.0	199.2	193.9	190.6	189.4	185.6
75°	209.2	196.4	184.4	173.8	165.6	161.1	157.3	153.5	152.0	145.2	141.5
77.5°	152.6	144.2	136.7	129.1	123.3	120.3	113.0	108.7	106.1	102.9	102.2
80°	118.9	112.9	105.4	100.9	92.6	89.5	86.5	85.8	85.0	84.3	83.5
82.5°	89.4	83.4	75.9	73.1	70.9	69.1	67.3	66.5	65.8	66.3	66.1
85°	45.1	42.1	42.1	41.4	40.6	39.9	39.1	39.1	38.4	39.1	38.4
87.5°	15.6	15.0	15.4	14.1	14.9	15.1	14.4	14.4	15.1	13.9	13.9
90°	2.6	2.6	4.6	4.6	5.4	6.0	5.7	6.0	6.3	6.7	6.7
92.5°	17.6	24.5	41.5	67.3	92.5	105.7	88.0	65.4	49.2	39.2	32.5
95°	27.6	41.7	70.6	125.3	204.9	271.5	279.2	246.9	195.2	150.5	118.3
97.5°	33.5	45.1	67.5	112.6	191.7	286.0	350.7	364.7	345.5	312.9	278.1
100°	38.0	48.6	68.3	105.9	173.9	267.9	353.1	401.7	408.4	392.1	367.4
102.5°	43.1	53.2	71.0	104.1	161.9	245.2	333.1	399.9	432.9	437.6	427.3
105°	51.7	61.3	77.3	104.9	151.6	218.5	296.8	373.1	430.7	463.7	477.4
107.5°	60.5	70.0	84.6	109.9	149.7	203.6	267.5	335.1	396.4	442.8	472.6
110°	66.6	75.6	90.3	113.6	150.2	198.5	252.9	312.2	369.8	418.1	454.7



TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	72.5	81.4	95.6	117.6	151.8	196.1	244.6	295.3	346.3	391.9	428.6
115°	81.6	90.6	104.0	123.9	154.9	194.9	236.9	278.5	319.4	358.4	390.4
117.5°	90.0	99.3	112.0	130.4	158.2	194.5	233.4	270.2	304.2	334.8	361.9
120°	95.6	104.9	117.6	134.9	160.6	194.5	231.5	266.5	297.5	324.1	347.8
122.5°	101.2	110.3	122.9	139.2	163.0	194.3	229.4	263.3	293.2	317.4	338.2
125°	109.0	118.3	130.3	145.5	166.5	193.9	225.8	257.9	286.4	309.4	327.8
127.5°	116.0	125.5	137.0	151.1	169.5	193.1	221.1	251.2	278.5	301.5	318.9
130°	120.6	130.3	141.6	154.6	171.5	192.8	218.2	245.8	272.2	294.8	312.5
132.5°	124.9	133.9	145.3	158.1	173.4	192.7	215.6	240.3	264.9	287.1	304.7
135°	130.9	139.6	150.5	162.6	176.3	192.2	211.5	232.5	254.2	274.5	291.2
137.5°	136.0	144.3	154.6	165.8	177.9	192.2	208.1	225.6	243.8	261.0	276.0
140°	139.2	147.2	157.2	167.9	179.2	191.9	206.2	221.5	237.1	252.1	266.2
142.5°	142.1	149.9	159.7	169.5	180.3	191.9	204.6	217.8	231.6	244.4	256.6
145°	146.3	153.5	162.2	171.3	180.9	191.2	201.9	212.5	223.9	233.8	243.2
147.5°	150.1	156.7	164.9	172.8	181.3	190.0	199.4	208.2	217.2	225.2	232.5
150°	152.6	158.9	166.3	173.5	181.3	189.2	197.6	205.6	213.2	219.9	225.8
152.5°	155.0	160.8	167.3	174.1	180.7	187.8	195.4	202.6	209.2	215.4	220.3
155°	158.3	163.2	168.9	174.6	179.9	185.9	192.2	198.2	203.5	208.5	212.5
157.5°	161.3	165.2	170.0	174.6	179.0	183.8	189.0	193.5	197.9	202.2	205.4
160°	162.9	166.5	170.6	174.6	178.2	182.2	186.5	190.6	194.2	197.8	200.6
162.5°	164.5	167.4	171.1	174.6	177.4	180.6	184.5	187.7	190.8	193.6	196.0
165°	166.3	168.2	171.3	173.9	175.9	178.2	180.9	183.5	185.6	187.8	189.5
167.5°	167.4	169.0	171.2	173.1	174.3	175.8	177.7	179.6	181.2	183.0	184.0
170°	168.2	169.2	170.9	172.6	173.2	174.2	175.6	177.2	178.2	179.6	180.6
172.5°	168.7	169.5	170.6	172.0	172.2	172.6	173.7	175.1	175.8	176.6	177.4
175°	169.6	169.6	170.2	171.3	170.9	170.9	171.5	172.2	172.6	173.2	173.2
177.5°	169.6	169.6	169.8	170.3	169.8	169.8	170.1	170.3	170.6	170.6	170.9
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6



TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1782.9	1784.1	1779.9	1778.7	1779.9	1784.1	1782.9	1786.5	1787.2	1792.0	1790.2
5°	1654.1	1652.6	1648.8	1649.5	1648.8	1652.6	1654.1	1660.1	1663.1	1675.2	1673.7
7.5°	1543.9	1538.0	1539.6	1533.7	1539.6	1538.0	1543.9	1549.4	1558.5	1564.0	1576.7
10°	1476.5	1468.2	1461.4	1455.4	1461.4	1468.2	1476.5	1479.5	1492.2	1498.3	1511.1
12.5°	1384.4	1377.2	1368.1	1369.9	1368.1	1377.2	1384.4	1397.6	1414.0	1426.6	1446.7
15°	1253.7	1242.5	1224.4	1226.6	1224.4	1242.5	1253.7	1263.5	1280.1	1308.6	1322.2
17.5°	1143.1	1143.2	1135.0	1136.9	1135.0	1143.2	1143.1	1156.5	1164.9	1183.2	1203.9
20°	1085.9	1080.6	1081.4	1079.1	1081.4	1080.6	1085.9	1101.7	1110.8	1123.5	1146.1
22.5°	1046.1	1039.7	1034.4	1029.7	1034.4	1039.7	1046.1	1050.6	1062.6	1074.8	1093.2
25°	979.0	974.5	967.8	966.3	967.8	974.5	979.0	985.8	991.8	1007.7	1018.9
27.5°	920.0	919.2	916.4	912.9	916.4	919.2	920.0	926.0	933.9	944.0	958.3
30°	885.7	884.2	882.7	880.4	882.7	884.2	885.7	891.7	897.8	906.1	917.4
32.5°	855.1	854.1	852.6	852.8	852.6	854.1	855.1	858.0	861.7	872.3	881.2
35°	811.2	810.5	809.0	808.2	809.0	810.5	811.2	814.3	816.5	819.5	827.1
37.5°	770.3	772.2	771.4	771.2	771.4	772.2	770.3	771.1	768.6	774.0	779.2
40°	742.0	742.7	744.2	743.5	744.2	742.7	742.0	742.7	742.7	742.7	747.2
42.5°	718.5	718.7	720.8	718.2	720.8	718.7	718.5	715.7	712.1	712.7	714.2
45°	676.6	681.1	680.3	680.3	680.3	681.1	676.6	671.3	670.5	667.5	667.5
47.5°	630.7	634.5	635.6	635.5	635.6	634.5	630.7	628.7	625.2	622.2	621.9
50°	600.5	599.0	601.2	600.5	601.2	599.0	600.5	596.7	591.4	591.4	590.0
52.5°	563.8	564.1	563.9	563.2	563.9	564.1	563.8	561.8	559.6	557.1	556.3
55°	507.2	507.9	506.4	507.2	506.4	507.9	507.2	506.4	506.4	504.9	506.4
57.5°	445.8	442.1	443.7	441.9	443.7	442.1	445.8	449.1	450.3	450.6	452.9
60°	401.9	395.9	394.4	391.3	394.4	395.9	401.9	409.3	412.4	413.9	416.1
62.5°	352.5	348.3	343.2	345.5	343.2	348.3	352.5	360.6	367.2	372.4	377.6
65°	286.7	283.7	281.4	284.5	281.4	283.7	286.7	292.8	298.8	310.8	322.1
67.5°	237.3	235.7	235.7	234.2	235.7	235.7	237.3	240.3	244.1	250.7	261.3
70°	211.5	209.2	209.2	207.7	209.2	209.2	211.5	211.5	215.2	218.2	225.7
72.5°	184.9	182.8	183.3	182.4	183.3	182.8	184.9	185.6	189.4	190.6	193.9
75°	137.0	133.2	133.2	133.9	133.2	133.2	137.0	141.5	145.2	152.0	153.5
77.5°	102.2	101.4	102.5	101.1	102.5	101.4	102.2	102.2	102.9	106.1	108.7
80°	83.5	82.8	82.0	84.3	82.0	82.8	83.5	83.5	84.3	85.0	85.8
82.5°	64.8	64.8	64.6	67.4	64.6	64.8	64.8	66.1	66.3	65.8	66.5
85°	39.1	37.6	39.1	37.6	39.1	37.6	39.1	38.4	39.1	38.4	39.1
87.5°	15.3	14.7	14.0	14.6	14.0	14.7	15.3	13.9	13.9	15.1	14.4
90°	7.0	7.4	7.0	7.0	7.0	7.4	7.0	6.7	6.7	6.3	6.0
92.5°	28.6	26.8	25.6	25.6	25.6	26.8	28.6	32.5	39.2	49.2	65.4
95°	101.9	91.6	85.6	81.2	85.6	91.6	101.9	118.3	150.5	195.2	246.9
97.5°	254.2	234.2	224.2	217.3	224.2	234.2	254.2	278.1	312.9	345.5	364.7
100°	338.5	318.1	308.1	305.5	308.1	318.1	338.5	367.4	392.1	408.4	401.7
102.5°	409.6	394.9	384.4	382.2	384.4	394.9	409.6	427.3	437.6	432.9	399.9
105°	478.1	475.3	470.7	468.7	470.7	475.3	478.1	477.4	463.7	430.7	373.1
107.5°	489.0	496.6	499.9	500.8	499.9	496.6	489.0	472.6	442.8	396.4	335.1
110°	478.3	492.4	498.3	501.3	498.3	492.4	478.3	454.7	418.1	369.8	312.2



TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	455.4	472.4	480.8	485.6	480.8	472.4	455.4	428.6	391.9	346.3	295.3
115°	416.7	436.7	447.4	450.1	447.4	436.7	416.7	390.4	358.4	319.4	278.5
117.5°	384.4	401.1	411.9	414.0	411.9	401.1	384.4	361.9	334.8	304.2	270.2
120°	366.7	381.4	390.1	393.8	390.1	381.4	366.7	347.8	324.1	297.5	266.5
122.5°	354.2	366.7	374.1	377.8	374.1	366.7	354.2	338.2	317.4	293.2	263.3
125°	341.1	350.8	357.1	359.1	357.1	350.8	341.1	327.8	309.4	286.4	257.9
127.5°	332.2	340.8	346.2	348.2	346.2	340.8	332.2	318.9	301.5	278.5	251.2
130°	326.1	334.4	339.8	341.8	339.8	334.4	326.1	312.5	294.8	272.2	245.8
132.5°	318.1	327.5	332.6	334.6	332.6	327.5	318.1	304.7	287.1	264.9	240.3
135°	304.4	313.8	319.1	321.1	319.1	313.8	304.4	291.2	274.5	254.2	232.5
137.5°	288.5	297.7	302.1	304.4	302.1	297.7	288.5	276.0	261.0	243.8	225.6
140°	277.9	285.1	289.8	292.5	289.8	285.1	277.9	266.2	252.1	237.1	221.5
142.5°	266.9	273.7	277.9	279.7	277.9	273.7	266.9	256.6	244.4	231.6	217.8
145°	251.5	257.1	260.5	262.1	260.5	257.1	251.5	243.2	233.8	223.9	212.5
147.5°	238.7	243.6	246.0	246.7	246.0	243.6	238.7	232.5	225.2	217.2	208.2
150°	231.2	235.5	237.5	237.8	237.5	235.5	231.2	225.8	219.9	213.2	205.6
152.5°	224.8	228.3	229.5	229.9	229.5	228.3	224.8	220.3	215.4	209.2	202.6
155°	215.8	218.5	219.5	219.5	219.5	218.5	215.8	212.5	208.5	203.5	198.2
157.5°	207.8	209.9	210.5	210.5	210.5	209.9	207.8	205.4	202.2	197.9	193.5
160°	202.6	204.5	204.9	204.9	204.9	204.5	202.6	200.6	197.8	194.2	190.6
162.5°	197.5	199.4	199.8	199.5	199.8	199.4	197.5	196.0	193.6	190.8	187.7
165°	190.9	192.2	191.9	191.5	191.9	192.2	190.9	189.5	187.8	185.6	183.5
167.5°	184.6	185.6	185.5	185.2	185.5	185.6	184.6	184.0	183.0	181.2	179.6
170°	181.3	181.5	181.3	181.3	181.3	181.5	181.3	180.6	179.6	178.2	177.2
172.5°	177.8	178.0	177.8	177.2	177.8	178.0	177.8	177.4	176.6	175.8	175.1
175°	173.2	173.9	173.2	172.6	173.2	173.9	173.2	173.2	173.2	172.6	172.2
177.5°	170.6	170.9	170.3	169.8	170.3	170.9	170.6	170.9	170.6	170.6	170.3
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6



TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1786.5	1790.7	1800.4	1811.2	1820.2	1828.1	1834.1	1842.5	1850.3	1861.1	1871.4
5°	1678.2	1688.7	1703.7	1721.8	1744.4	1759.4	1778.2	1794.8	1818.9	1843.0	1866.3
7.5°	1583.0	1594.6	1616.7	1641.7	1668.5	1693.2	1715.5	1744.6	1776.6	1811.7	1850.8
10°	1521.6	1534.5	1560.8	1589.3	1621.0	1645.0	1675.2	1709.8	1745.9	1788.8	1836.9
12.5°	1466.2	1478.5	1510.1	1539.4	1572.2	1598.6	1633.6	1668.9	1717.0	1763.5	1818.3
15°	1358.3	1390.7	1426.8	1461.4	1500.5	1533.0	1575.1	1611.2	1657.1	1722.6	1785.0
17.5°	1238.5	1273.0	1317.9	1371.3	1423.8	1463.9	1506.6	1551.4	1606.1	1672.9	1745.0
20°	1168.7	1196.6	1246.2	1305.6	1366.6	1422.3	1461.4	1511.1	1567.5	1639.7	1714.3
22.5°	1116.3	1139.9	1178.7	1238.2	1304.0	1368.7	1418.7	1467.7	1530.2	1602.4	1683.6
25°	1037.7	1063.4	1097.2	1137.8	1213.1	1281.6	1347.1	1403.4	1469.7	1541.9	1632.2
27.5°	972.4	994.7	1025.7	1068.0	1118.6	1194.1	1273.5	1337.8	1405.7	1483.3	1573.7
30°	933.9	952.0	977.5	1020.4	1068.6	1136.3	1216.8	1292.1	1360.6	1441.1	1535.2
32.5°	893.5	912.9	937.8	971.7	1023.4	1080.3	1160.8	1243.3	1316.1	1398.4	1490.6
35°	839.8	854.9	877.4	912.1	958.8	1008.4	1079.9	1164.9	1241.7	1329.7	1417.8
37.5°	785.5	803.2	821.0	851.9	890.1	943.5	1002.1	1088.9	1173.9	1254.3	1340.3
40°	754.8	765.3	784.9	809.7	850.4	897.8	952.7	1037.7	1122.8	1202.6	1289.1
42.5°	720.5	732.3	748.8	773.6	810.0	856.2	909.9	983.5	1072.2	1149.6	1228.3
45°	672.8	679.6	696.1	717.2	747.2	793.9	843.6	909.1	992.6	1066.3	1135.6
47.5°	624.6	630.5	640.8	660.2	693.8	731.3	777.8	836.5	909.8	983.5	1042.1
50°	591.4	596.7	606.5	624.6	654.7	691.5	737.4	790.1	855.6	926.3	975.2
52.5°	558.4	561.3	570.4	590.9	616.1	652.4	693.5	742.0	803.2	862.0	911.4
55°	505.7	512.5	518.5	533.6	557.6	592.2	629.1	675.0	722.5	772.1	814.3
57.5°	450.7	458.2	466.8	480.1	499.3	531.4	564.6	601.7	642.2	683.4	718.8
60°	414.6	421.4	429.0	444.0	461.3	486.9	523.0	555.3	586.3	623.9	659.2
62.5°	379.1	385.9	394.6	406.7	423.4	447.8	477.9	506.1	538.1	570.9	597.2
65°	326.6	331.9	338.7	350.0	365.7	387.6	412.4	434.2	462.8	486.9	511.0
67.5°	269.0	279.1	287.9	297.1	310.5	330.8	348.7	369.7	389.1	407.0	429.0
70°	231.0	242.3	250.6	260.3	273.1	290.5	307.7	322.1	337.9	355.2	374.8
72.5°	199.2	208.0	214.4	224.9	236.5	252.5	268.6	280.5	293.3	305.2	324.2
75°	157.3	161.1	165.6	173.8	184.4	196.4	209.2	219.7	227.2	237.8	251.4
77.5°	113.0	120.3	123.3	129.1	136.7	144.2	152.6	161.5	168.7	172.5	182.9
80°	86.5	89.5	92.6	100.9	105.4	112.9	118.9	127.1	130.2	133.9	143.7
82.5°	67.3	69.1	70.9	73.1	75.9	83.4	89.4	94.6	97.6	99.1	106.4
85°	39.1	39.9	40.6	41.4	42.1	42.1	45.1	48.9	54.2	54.2	56.5
87.5°	14.4	15.1	14.9	14.1	15.4	15.0	15.6	15.6	17.2	18.9	20.5
90°	5.7	6.0	5.4	4.6	4.6	2.6	2.6	2.4	2.0	1.0	0.4
92.5°	88.0	105.7	92.5	67.3	41.5	24.5	17.6	12.7	8.7	5.6	3.8
95°	279.2	271.5	204.9	125.3	70.6	41.7	27.6	19.7	15.4	12.0	11.0
97.5°	350.7	286.0	191.7	112.6	67.5	45.1	33.5	26.6	22.6	19.7	19.7
100°	353.1	267.9	173.9	105.9	68.3	48.6	38.0	31.7	27.6	25.4	25.4
102.5°	333.1	245.2	161.9	104.1	71.0	53.2	43.1	36.9	33.3	31.2	30.6
105°	296.8	218.5	151.6	104.9	77.3	61.3	51.7	45.6	41.7	40.0	39.0
107.5°	267.5	203.6	149.7	109.9	84.6	70.0	60.5	54.8	50.5	48.8	48.2
110°	252.9	198.5	150.2	113.6	90.3	75.6	66.6	60.6	56.6	55.0	54.3



TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	244.6	196.1	151.8	117.6	95.6	81.4	72.5	66.4	62.8	60.8	60.1
115°	236.9	194.9	154.9	123.9	104.0	90.6	81.6	75.3	71.9	69.7	68.6
117.5°	233.4	194.5	158.2	130.4	112.0	99.3	90.0	84.1	80.4	78.3	77.4
120°	231.5	194.5	160.6	134.9	117.6	104.9	95.6	89.9	86.2	84.0	83.3
122.5°	229.4	194.3	163.0	139.2	122.9	110.3	101.2	95.0	91.6	89.3	88.6
125°	225.8	193.9	166.5	145.5	130.3	118.3	109.0	102.6	99.0	96.9	95.6
127.5°	221.1	193.1	169.5	151.1	137.0	125.5	116.0	109.4	105.3	102.8	101.8
130°	218.2	192.8	171.5	154.6	141.6	130.3	120.6	114.2	109.2	106.6	105.3
132.5°	215.6	192.7	173.4	158.1	145.3	133.9	124.9	118.0	113.3	109.8	108.8
135°	211.5	192.2	176.3	162.6	150.5	139.6	130.9	123.9	118.3	114.9	113.6
137.5°	208.1	192.2	177.9	165.8	154.6	144.3	136.0	128.8	123.4	119.7	118.5
140°	206.2	191.9	179.2	167.9	157.2	147.2	139.2	132.2	126.6	122.9	122.0
142.5°	204.6	191.9	180.3	169.5	159.7	149.9	142.1	135.4	130.1	126.7	125.6
145°	201.9	191.2	180.9	171.3	162.2	153.5	146.3	139.9	135.3	132.0	130.9
147.5°	199.4	190.0	181.3	172.8	164.9	156.7	150.1	144.9	140.2	137.1	136.9
150°	197.6	189.2	181.3	173.5	166.3	158.9	152.6	147.6	143.5	140.9	140.5
152.5°	195.4	187.8	180.7	174.1	167.3	160.8	155.0	150.5	146.8	144.1	144.0
155°	192.2	185.9	179.9	174.6	168.9	163.2	158.3	154.6	151.3	149.2	148.9
157.5°	189.0	183.8	179.0	174.6	170.0	165.2	161.3	158.1	155.5	153.6	153.6
160°	186.5	182.2	178.2	174.6	170.6	166.5	162.9	160.2	157.9	156.6	156.6
162.5°	184.5	180.6	177.4	174.6	171.1	167.4	164.5	162.1	160.0	159.0	159.2
165°	180.9	178.2	175.9	173.9	171.3	168.2	166.3	164.6	162.9	162.2	162.2
167.5°	177.7	175.8	174.3	173.1	171.2	169.0	167.4	166.5	165.2	164.9	165.2
170°	175.6	174.2	173.2	172.6	170.9	169.2	168.2	167.6	166.5	166.3	166.5
172.5°	173.7	172.6	172.2	172.0	170.6	169.5	168.7	168.3	167.6	167.6	167.9
175°	171.5	170.9	170.9	171.3	170.2	169.6	169.6	169.2	168.9	168.9	169.2
177.5°	170.1	169.8	169.8	170.3	169.8	169.6	169.6	169.6	169.3	169.6	169.8
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6





TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1879.2	1884.6	1890.6	1902.1	1911.8	1916.0	1924.4	1930.4	1928.6	1937.0	1951.4
5°	1886.6	1907.0	1930.2	1954.4	1981.4	2004.0	2022.0	2040.1	2054.5	2071.7	2097.3
7.5°	1885.4	1921.6	1960.8	2004.0	2048.4	2086.8	2122.3	2158.4	2190.5	2225.5	2271.4
10°	1880.6	1928.7	1977.6	2034.1	2090.6	2144.0	2192.2	2237.3	2280.2	2326.1	2384.1
12.5°	1875.2	1930.5	1989.7	2057.6	2127.9	2192.2	2248.7	2313.8	2367.5	2426.7	2493.6
15°	1851.2	1925.7	2006.3	2094.3	2178.6	2265.1	2342.6	2422.4	2496.9	2567.7	2651.9
17.5°	1823.8	1909.8	2004.8	2108.8	2210.1	2315.3	2407.3	2507.7	2583.9	2678.9	2757.1
20°	1801.6	1894.1	1995.7	2112.3	2227.5	2344.1	2445.7	2548.1	2633.8	2729.4	2828.8
22.5°	1774.4	1876.0	1986.1	2107.0	2227.5	2354.9	2467.4	2569.2	2675.4	2783.0	2885.4
25°	1730.8	1836.2	1952.9	2085.3	2223.7	2353.9	2474.4	2600.8	2715.2	2831.8	2923.6
27.5°	1677.3	1787.9	1910.8	2047.5	2189.6	2322.9	2464.7	2599.4	2714.5	2826.8	2906.9
30°	1634.5	1751.1	1869.3	2007.8	2155.2	2298.2	2450.2	2584.9	2706.1	2807.0	2852.1
32.5°	1590.5	1701.2	1823.0	1963.2	2114.3	2268.1	2418.9	2556.6	2668.8	2729.3	2730.5
35°	1514.1	1618.0	1744.4	1882.1	2037.1	2204.1	2356.9	2492.4	2560.9	2566.2	2492.4
37.5°	1430.7	1526.0	1645.3	1783.2	1952.9	2119.1	2275.2	2365.5	2388.4	2311.8	2175.4
40°	1371.1	1459.2	1574.3	1715.8	1884.3	2056.0	2198.2	2264.4	2240.3	2116.1	1964.1
42.5°	1308.5	1390.5	1501.5	1641.2	1810.3	1983.7	2104.9	2140.3	2076.5	1933.2	1755.2
45°	1206.4	1281.6	1391.5	1532.2	1694.7	1857.3	1949.1	1931.0	1824.9	1654.8	1455.4
47.5°	1099.9	1172.6	1271.5	1401.7	1568.1	1708.4	1770.6	1716.1	1565.1	1378.0	1215.8
50°	1029.4	1104.0	1195.0	1319.2	1471.2	1606.7	1646.5	1563.8	1395.9	1216.1	1067.1
52.5°	960.3	1023.9	1113.1	1233.1	1378.5	1492.9	1514.1	1418.7	1245.5	1084.2	952.1
55°	854.9	912.9	988.1	1101.0	1226.6	1323.7	1312.4	1189.8	1032.5	894.8	790.9
57.5°	753.0	796.6	866.2	971.9	1082.3	1147.5	1106.3	1001.6	855.1	742.3	654.7
60°	685.6	726.2	790.9	883.4	980.5	1017.4	982.8	869.2	753.3	650.2	576.5
62.5°	621.7	657.6	713.2	799.2	877.6	899.5	862.4	763.2	658.7	570.7	509.6
65°	529.0	562.1	609.5	670.5	724.7	735.2	711.1	609.5	530.6	456.8	414.6
67.5°	444.9	466.6	503.6	556.3	585.0	591.2	544.7	480.9	411.2	365.9	334.1
70°	388.3	403.3	438.0	466.6	489.9	490.7	447.8	396.6	343.2	306.3	283.0
72.5°	333.6	348.0	374.2	393.7	411.6	405.8	366.5	326.1	283.0	255.1	237.8
75°	257.4	270.1	283.7	292.8	292.8	285.2	256.7	226.5	201.7	185.1	179.8
77.5°	187.1	197.7	202.2	200.8	198.0	186.3	168.2	148.5	139.7	131.9	127.9
80°	146.8	151.3	152.8	149.0	144.5	130.9	118.9	110.7	102.4	99.3	97.8
82.5°	108.8	112.7	108.8	109.9	99.9	88.8	82.2	79.4	75.9	74.6	73.1
85°	58.0	57.2	55.7	51.9	45.1	43.6	42.9	42.1	40.6	41.4	39.9
87.5°	20.1	18.5	16.1	15.6	15.6	14.8	15.4	15.6	15.6	15.0	16.2
90°	1.0	2.0	2.4	2.6	2.6	4.6	4.6	5.4	6.0	5.7	6.0
92.5°	5.6	8.7	12.7	17.6	24.5	41.5	67.3	92.5	105.7	88.0	65.4
95°	12.0	15.4	19.7	27.6	41.7	70.6	125.3	204.9	271.5	279.2	246.9
97.5°	19.7	22.6	26.6	33.5	45.1	67.5	112.6	191.7	286.0	350.7	364.7
100°	25.4	27.6	31.7	38.0	48.6	68.3	105.9	173.9	267.9	353.1	401.7
102.5°	31.2	33.3	36.9	43.1	53.2	71.0	104.1	161.9	245.2	333.1	399.9
105°	40.0	41.7	45.6	51.7	61.3	77.3	104.9	151.6	218.5	296.8	373.1
107.5°	48.8	50.5	54.8	60.5	70.0	84.6	109.9	149.7	203.6	267.5	335.1
110°	55.0	56.6	60.6	66.6	75.6	90.3	113.6	150.2	198.5	252.9	312.2





TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	60.8	62.8	66.4	72.5	81.4	95.6	117.6	151.8	196.1	244.6	295.3
115°	69.7	71.9	75.3	81.6	90.6	104.0	123.9	154.9	194.9	236.9	278.5
117.5°	78.3	80.4	84.1	90.0	99.3	112.0	130.4	158.2	194.5	233.4	270.2
120°	84.0	86.2	89.9	95.6	104.9	117.6	134.9	160.6	194.5	231.5	266.5
122.5°	89.3	91.6	95.0	101.2	110.3	122.9	139.2	163.0	194.3	229.4	263.3
125°	96.9	99.0	102.6	109.0	118.3	130.3	145.5	166.5	193.9	225.8	257.9
127.5°	102.8	105.3	109.4	116.0	125.5	137.0	151.1	169.5	193.1	221.1	251.2
130°	106.6	109.2	114.2	120.6	130.3	141.6	154.6	171.5	192.8	218.2	245.8
132.5°	109.8	113.3	118.0	124.9	133.9	145.3	158.1	173.4	192.7	215.6	240.3
135°	114.9	118.3	123.9	130.9	139.6	150.5	162.6	176.3	192.2	211.5	232.5
137.5°	119.7	123.4	128.8	136.0	144.3	154.6	165.8	177.9	192.2	208.1	225.6
140°	122.9	126.6	132.2	139.2	147.2	157.2	167.9	179.2	191.9	206.2	221.5
142.5°	126.7	130.1	135.4	142.1	149.9	159.7	169.5	180.3	191.9	204.6	217.8
145°	132.0	135.3	139.9	146.3	153.5	162.2	171.3	180.9	191.2	201.9	212.5
147.5°	137.1	140.2	144.9	150.1	156.7	164.9	172.8	181.3	190.0	199.4	208.2
150°	140.9	143.5	147.6	152.6	158.9	166.3	173.5	181.3	189.2	197.6	205.6
152.5°	144.1	146.8	150.5	155.0	160.8	167.3	174.1	180.7	187.8	195.4	202.6
155°	149.2	151.3	154.6	158.3	163.2	168.9	174.6	179.9	185.9	192.2	198.2
157.5°	153.6	155.5	158.1	161.3	165.2	170.0	174.6	179.0	183.8	189.0	193.5
160°	156.6	157.9	160.2	162.9	166.5	170.6	174.6	178.2	182.2	186.5	190.6
162.5°	159.0	160.0	162.1	164.5	167.4	171.1	174.6	177.4	180.6	184.5	187.7
165°	162.2	162.9	164.6	166.3	168.2	171.3	173.9	175.9	178.2	180.9	183.5
167.5°	164.9	165.2	166.5	167.4	169.0	171.2	173.1	174.3	175.8	177.7	179.6
170°	166.3	166.5	167.6	168.2	169.2	170.9	172.6	173.2	174.2	175.6	177.2
172.5°	167.6	167.6	168.3	168.7	169.5	170.6	172.0	172.2	172.6	173.7	175.1
175°	168.9	168.9	169.2	169.6	169.6	170.2	171.3	170.9	170.9	171.5	172.2
177.5°	169.6	169.3	169.6	169.6	169.6	169.8	170.3	169.8	169.8	170.1	170.3
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6



TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1959.3	1961.7	1963.5	1969.5	1970.1	1975.6	1970.1
5°	2121.4	2131.9	2148.5	2165.0	2166.5	2177.1	2158.2
7.5°	2303.2	2327.6	2342.8	2369.6	2380.1	2386.7	2375.9
10°	2428.5	2451.0	2490.9	2510.5	2530.1	2533.0	2524.0
12.5°	2549.5	2585.3	2616.7	2653.7	2652.9	2679.4	2669.7
15°	2710.7	2747.5	2791.2	2832.5	2847.6	2847.6	2859.7
17.5°	2825.6	2893.2	2938.4	2970.9	3006.3	3012.6	3008.3
20°	2903.3	2976.3	3024.4	3066.6	3090.7	3097.5	3097.5
22.5°	2961.1	3023.2	3070.2	3108.1	3128.0	3135.9	3133.6
25°	3001.1	3054.5	3083.2	3094.5	3099.6	3098.2	3083.9
27.5°	2946.3	2943.9	2925.8	2891.2	2865.2	2849.4	2831.3
30°	2841.6	2802.5	2757.3	2707.6	2643.6	2594.7	2579.6
32.5°	2685.7	2597.7	2521.3	2438.5	2369.7	2320.8	2300.4
35°	2384.1	2244.9	2131.2	2031.8	1959.6	1914.5	1899.4
37.5°	2026.1	1891.4	1750.7	1654.4	1594.5	1548.9	1531.8
40°	1798.6	1651.8	1529.2	1438.9	1377.1	1332.8	1332.0
42.5°	1590.8	1450.8	1335.3	1270.3	1203.7	1174.4	1174.2
45°	1302.6	1190.5	1092.7	1041.5	1001.6	977.5	970.7
47.5°	1078.6	985.8	920.7	879.9	847.3	832.0	822.1
50°	952.7	871.5	819.5	784.1	766.1	746.5	745.0
52.5°	847.9	782.3	741.9	713.1	690.2	678.4	678.8
55°	712.7	660.7	632.2	610.3	592.2	583.2	579.5
57.5°	600.4	561.4	540.6	520.6	512.9	505.9	503.9
60°	530.6	504.2	484.7	468.8	457.5	455.2	454.5
62.5°	472.8	445.2	431.7	419.4	411.2	407.7	406.3
65°	389.8	369.5	357.4	347.7	344.7	339.4	338.7
67.5°	314.2	302.1	294.1	287.3	283.2	283.0	283.0
70°	267.9	261.1	254.4	250.6	248.4	246.9	246.9
72.5°	228.2	223.2	217.6	215.7	215.2	213.7	213.1
75°	173.8	168.5	169.3	165.6	162.6	158.8	156.6
77.5°	123.3	119.5	118.8	118.3	115.7	115.3	116.5
80°	95.6	91.8	91.0	91.8	91.0	88.8	88.8
82.5°	72.7	69.6	68.8	68.3	67.6	68.3	67.1
85°	39.1	37.6	37.6	37.6	39.1	38.4	37.6
87.5°	15.1	14.6	15.2	14.6	14.7	14.0	14.6
90°	6.3	6.7	6.7	7.0	7.4	7.0	7.0
92.5°	49.2	39.2	32.5	28.6	26.8	25.6	25.6
95°	195.2	150.5	118.3	101.9	91.6	85.6	81.2
97.5°	345.5	312.9	278.1	254.2	234.2	224.2	217.3
100°	408.4	392.1	367.4	338.5	318.1	308.1	305.5
102.5°	432.9	437.6	427.3	409.6	394.9	384.4	382.2
105°	430.7	463.7	477.4	478.1	475.3	470.7	468.7
107.5°	396.4	442.8	472.6	489.0	496.6	499.9	500.8
110°	369.8	418.1	454.7	478.3	492.4	498.3	501.3



TEST NUMBER: P332987-830

CATALOG NUMBER: SA4XXRDIP-C1195D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	346.3	391.9	428.6	455.4	472.4	480.8	485.6
115°	319.4	358.4	390.4	416.7	436.7	447.4	450.1
117.5°	304.2	334.8	361.9	384.4	401.1	411.9	414.0
120°	297.5	324.1	347.8	366.7	381.4	390.1	393.8
122.5°	293.2	317.4	338.2	354.2	366.7	374.1	377.8
125°	286.4	309.4	327.8	341.1	350.8	357.1	359.1
127.5°	278.5	301.5	318.9	332.2	340.8	346.2	348.2
130°	272.2	294.8	312.5	326.1	334.4	339.8	341.8
132.5°	264.9	287.1	304.7	318.1	327.5	332.6	334.6
135°	254.2	274.5	291.2	304.4	313.8	319.1	321.1
137.5°	243.8	261.0	276.0	288.5	297.7	302.1	304.4
140°	237.1	252.1	266.2	277.9	285.1	289.8	292.5
142.5°	231.6	244.4	256.6	266.9	273.7	277.9	279.7
145°	223.9	233.8	243.2	251.5	257.1	260.5	262.1
147.5°	217.2	225.2	232.5	238.7	243.6	246.0	246.7
150°	213.2	219.9	225.8	231.2	235.5	237.5	237.8
152.5°	209.2	215.4	220.3	224.8	228.3	229.5	229.9
155°	203.5	208.5	212.5	215.8	218.5	219.5	219.5
157.5°	197.9	202.2	205.4	207.8	209.9	210.5	210.5
160°	194.2	197.8	200.6	202.6	204.5	204.9	204.9
162.5°	190.8	193.6	196.0	197.5	199.4	199.8	199.5
165°	185.6	187.8	189.5	190.9	192.2	191.9	191.5
167.5°	181.2	183.0	184.0	184.6	185.6	185.5	185.2
170°	178.2	179.6	180.6	181.3	181.5	181.3	181.3
172.5°	175.8	176.6	177.4	177.8	178.0	177.8	177.2
175°	172.6	173.2	173.2	173.2	173.9	173.2	172.6
177.5°	170.6	170.6	170.9	170.6	170.9	170.3	169.8
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6

(END OF REPORT)