

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: P333011-935

Luminaire Tested: **SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P333011-935
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-C1195D1205U935-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

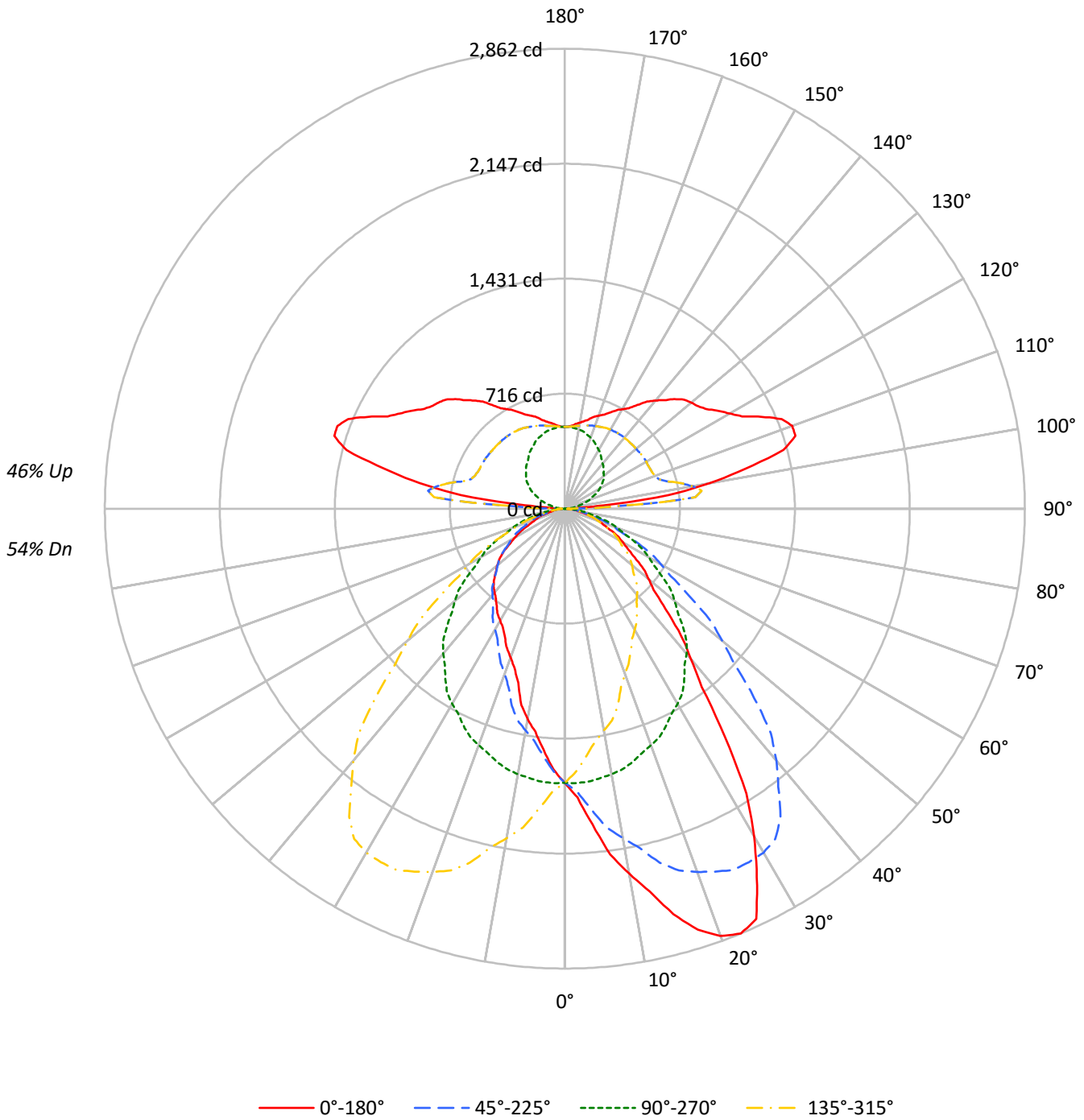
Lumens per Lamp: N/A
Luminaire Lumens: 8019.4 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.7
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



TEST NUMBER: P333011-935
CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

Luminous Intensity Polar Plot





TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	53	52	51	46
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44	40
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	43	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	45	42	38	38	35	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	35	32	29	26
6	65	53	45	39	60	49	42	37	43	38	33	37	33	30	32	28	26	23
7	60	48	40	34	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	27	23	21	18
9	52	40	32	27	48	37	31	26	33	27	24	29	24	21	25	21	19	17
10	49	37	29	25	45	34	28	24	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13774	13774	13774	13774
5°	15977	13816	12211	13816
10°	18901	13755	10899	13755
15°	21833	13628	9365	13628
20°	24308	13454	8469	13454
25°	25093	13281	7863	13281
30°	21967	13073	7498	13073
35°	17100	12764	7276	12764
40°	12823	12410	7158	12410
45°	10123	11843	7096	11843
50°	8547	11189	6889	11189
55°	7450	10469	6521	10469
60°	6704	9723	5772	9723
65°	5910	8915	4963	8915
70°	5323	8080	4480	8080
75°	4460	7162	3815	7162
80°	3770	6104	3580	6104
85°	3186	4780	3186	4780



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	2.1
10°-20°	498.7	6.2
20°-30°	780.0	9.7
30°-40°	867.1	10.8
40°-50°	769.3	9.6
50°-60°	599.5	7.5
60°-70°	392.5	4.9
70°-80°	193.0	2.4
80°-90°	50.4	0.6
90°-100°	367.8	4.6
100°-110°	765.5	9.5
110°-120°	685.7	8.6
120°-130°	576.8	7.2
130°-140°	480.9	6.0
140°-150°	367.4	4.6
150°-160°	258.2	3.2
160°-170°	151.9	1.9
170°-180°	49.4	0.6
0°-30°	1444.0	18.0
0°-40°	2311.0	28.8
0°-60°	3679.8	45.9
0°-90°	4315.7	53.8
90°-120°	1819.0	22.7
90°-150°	3244.1	40.5
90°-180°	3704.0	46.2
0°-180°	8019.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1706	1706	1706	1706	1706	
5°	1972	1705	1507	1705	1972	199
15°	2612	1631	1120	1631	2612	743
25°	2817	1491	883	1491	2817	1250
35°	1735	1295	738	1295	1735	1088
45°	887	1037	622	1037	887	702
55°	529	744	463	744	529	481
65°	309	467	260	467	309	311
75°	143	230	122	230	143	157
85°	34	52	34	52	34	39
90°	21	1	21	1	21	19
95°	244	33	244	33	244	379
105°	1408	117	1408	117	1408	1392
115°	1352	206	1352	206	1352	1342
125°	1078	287	1078	287	1078	980
135°	964	341	964	341	964	744
145°	787	393	787	393	787	499
155°	659	447	659	447	659	308
165°	575	487	575	487	575	165
175°	518	508	518	508	518	50
180°	509	509	509	509	509	



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1799.7	1804.7	1799.7	1799.1	1793.6	1792.0	1789.8	1782.6	1769.4	1761.8	1763.4
5°	1971.5	1988.7	1979.1	1977.7	1962.6	1947.5	1937.9	1915.9	1892.5	1876.7	1863.6
7.5°	2170.3	2180.2	2174.2	2164.6	2140.1	2126.2	2103.9	2074.9	2033.0	2001.0	1971.7
10°	2305.7	2313.9	2311.2	2293.3	2275.4	2238.9	2218.4	2177.8	2124.9	2082.9	2043.8
12.5°	2438.7	2447.6	2423.4	2424.1	2390.3	2361.6	2328.9	2277.9	2216.7	2162.7	2113.6
15°	2612.3	2601.3	2601.3	2587.5	2549.7	2509.8	2476.1	2422.5	2345.5	2280.9	2212.9
17.5°	2748.1	2751.9	2746.2	2713.9	2684.2	2642.9	2581.2	2518.6	2447.1	2360.3	2290.8
20°	2829.5	2829.5	2823.3	2801.3	2762.8	2718.8	2652.1	2584.0	2493.3	2406.0	2327.6
22.5°	2862.5	2864.6	2857.4	2839.2	2804.6	2761.7	2704.9	2635.8	2542.3	2443.9	2346.9
25°	2817.1	2830.2	2831.5	2826.7	2816.4	2790.2	2741.5	2670.6	2586.8	2480.3	2375.8
27.5°	2586.4	2602.9	2617.4	2641.1	2672.7	2689.2	2691.4	2655.4	2582.2	2479.7	2374.6
30°	2356.5	2370.2	2414.9	2473.4	2518.8	2560.0	2595.7	2605.4	2564.1	2472.0	2361.3
32.5°	2101.4	2120.0	2164.7	2227.6	2303.2	2373.0	2453.3	2494.2	2493.2	2437.9	2335.5
35°	1735.1	1748.9	1790.1	1856.1	1946.8	2050.6	2177.8	2276.7	2344.2	2339.3	2276.7
37.5°	1399.3	1414.9	1456.6	1511.2	1599.2	1727.8	1850.8	1987.2	2111.8	2181.8	2160.9
40°	1216.8	1217.5	1258.0	1314.4	1396.9	1508.9	1643.0	1794.2	1933.0	2046.5	2068.5
42.5°	1072.6	1072.8	1099.6	1160.4	1219.8	1325.3	1453.2	1603.4	1765.9	1896.9	1955.2
45°	886.7	892.9	915.0	951.4	998.2	1087.5	1189.9	1329.5	1511.7	1667.0	1763.9
47.5°	751.0	760.0	774.0	803.7	841.0	900.5	985.2	1110.6	1258.8	1429.7	1567.6
50°	680.5	681.9	699.8	716.3	748.6	796.1	870.3	974.7	1110.9	1275.1	1428.5
52.5°	620.1	619.7	630.5	651.4	677.7	714.6	774.6	869.7	990.4	1137.7	1296.0
55°	529.3	532.8	541.0	557.5	577.5	603.6	651.0	722.5	817.3	943.1	1086.8
57.5°	460.3	462.1	468.6	475.5	493.9	512.8	548.5	598.1	678.1	781.1	915.0
60°	415.2	415.9	417.9	428.3	442.7	460.5	484.7	526.6	593.9	688.1	794.0
62.5°	371.2	372.5	375.7	383.1	394.3	406.7	431.9	465.5	521.3	601.8	697.2
65°	309.4	310.0	314.9	317.6	326.5	337.5	356.1	378.8	417.2	484.7	556.8
67.5°	258.5	258.5	258.7	262.4	268.6	276.0	287.1	305.2	334.2	375.7	439.3
70°	225.5	225.5	226.9	228.9	232.4	238.5	244.7	258.5	279.8	313.5	362.3
72.5°	194.7	195.2	196.6	197.0	198.8	203.9	208.4	217.2	233.1	258.5	297.9
75°	143.0	145.1	148.5	151.3	154.6	153.9	158.8	164.3	169.1	184.3	206.9
77.5°	106.4	105.3	105.7	108.1	108.5	109.2	112.6	116.8	120.5	127.6	135.7
80°	81.1	81.1	83.2	83.9	83.2	83.9	87.3	89.4	90.7	93.5	101.1
82.5°	61.3	62.4	61.7	62.4	62.9	63.5	66.4	66.8	68.2	69.3	72.5
85°	34.4	35.0	35.7	34.4	34.4	34.4	35.7	36.4	37.8	37.1	38.5
87.5°	16.3	15.8	16.5	16.3	16.6	16.1	16.4	17.4	16.0	16.8	16.4
90°	21.0	21.0	22.0	21.0	20.0	20.0	19.0	18.0	17.0	18.0	16.0
92.5°	77.1	77.1	80.4	85.8	97.6	117.7	147.8	196.5	264.3	317.4	277.8
95°	244.1	257.1	275.2	306.2	355.2	452.2	586.3	741.3	838.4	815.4	615.3
97.5°	652.6	673.3	703.4	763.5	835.4	939.9	1037.7	1095.4	1053.3	858.8	575.8
100°	917.5	925.5	955.5	1016.5	1103.5	1177.6	1226.6	1206.6	1060.5	804.3	522.3
102.5°	1148.0	1154.3	1185.9	1230.2	1283.6	1314.4	1300.2	1201.0	1000.5	736.3	486.2
105°	1407.6	1413.7	1427.7	1435.7	1433.7	1392.7	1293.7	1120.5	891.4	656.3	455.2
107.5°	1504.2	1501.5	1491.5	1468.7	1419.3	1330.1	1190.6	1006.3	803.4	611.5	449.6
110°	1505.7	1496.8	1478.7	1436.7	1365.6	1255.6	1110.5	937.5	759.4	596.3	451.3



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1458.5	1443.9	1418.7	1367.9	1287.2	1177.2	1040.1	887.0	734.5	589.1	456.0
115°	1351.7	1343.7	1311.6	1251.6	1172.6	1076.5	959.5	836.4	711.4	585.3	465.2
117.5°	1243.4	1237.2	1204.8	1154.3	1086.9	1005.5	913.4	811.6	700.9	584.3	475.0
120°	1182.6	1171.6	1145.6	1101.6	1044.5	973.4	893.5	800.4	695.3	584.3	482.2
122.5°	1134.5	1123.5	1101.6	1063.9	1015.7	953.5	880.6	790.7	689.0	583.5	489.5
125°	1078.5	1072.5	1053.5	1024.5	984.5	929.4	860.4	774.4	678.3	582.3	500.2
127.5°	1045.7	1039.7	1023.7	997.9	957.7	905.4	836.6	754.3	664.1	580.1	508.9
130°	1026.5	1020.5	1004.4	979.5	938.5	885.5	817.4	738.4	655.3	579.3	515.2
132.5°	1004.9	998.8	983.7	955.5	915.2	862.2	795.8	721.5	647.3	578.5	520.8
135°	964.5	958.5	942.5	914.5	874.4	824.4	763.4	698.4	635.3	577.3	529.3
137.5°	914.5	907.2	894.1	866.4	829.0	783.8	732.4	677.3	624.9	577.0	534.3
140°	878.4	870.4	856.4	834.4	799.4	757.3	712.3	665.3	619.3	576.3	538.3
142.5°	840.0	834.4	822.0	801.6	770.6	734.2	695.5	654.1	614.5	576.3	541.5
145°	787.4	782.4	772.4	755.4	730.4	702.3	672.4	638.3	606.3	574.3	543.3
147.5°	740.7	739.0	731.3	716.8	698.4	676.3	652.3	625.3	598.9	570.7	544.2
150°	714.4	713.3	707.3	694.3	678.3	660.3	640.3	617.3	593.3	568.3	544.2
152.5°	690.3	689.3	685.7	675.1	661.5	646.7	628.3	608.5	586.9	564.3	542.7
155°	659.4	659.4	656.3	648.3	638.3	626.3	611.3	595.3	577.3	558.3	540.3
157.5°	632.1	632.1	630.3	624.3	616.7	607.1	594.5	581.1	567.5	552.1	537.7
160°	615.3	615.3	614.3	608.3	602.3	594.3	583.2	572.3	560.3	547.3	535.3
162.5°	599.3	600.1	599.1	593.1	588.7	581.5	572.9	563.4	553.9	542.4	532.9
165°	575.3	576.3	577.3	573.3	569.3	564.3	557.2	551.3	543.3	535.3	528.2
167.5°	556.3	557.1	557.2	554.7	552.7	549.7	544.1	539.5	533.6	528.1	523.5
170°	544.2	544.2	545.3	544.2	542.3	539.2	535.3	532.3	527.3	523.2	520.2
172.5°	532.3	533.8	534.9	533.8	532.6	530.5	528.1	525.8	521.7	518.4	517.0
175°	518.2	520.2	522.3	520.2	520.2	520.2	518.2	517.3	515.2	513.2	513.2
177.5°	510.1	511.6	513.2	512.5	513.2	512.5	512.5	511.6	510.8	510.1	510.1
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1757.9	1750.2	1746.4	1737.6	1727.1	1721.6	1716.7	1709.5	1700.1	1690.2	1683.1
5°	1847.1	1830.7	1810.0	1785.3	1763.2	1742.0	1723.4	1704.9	1683.5	1661.6	1639.5
7.5°	1938.7	1906.3	1871.2	1830.7	1791.1	1755.3	1722.3	1690.7	1654.9	1622.9	1593.7
10°	2002.5	1958.5	1909.7	1858.1	1806.6	1761.9	1717.9	1678.0	1634.0	1594.8	1561.9
12.5°	2054.2	2002.5	1943.8	1879.6	1817.6	1763.5	1713.0	1661.0	1610.9	1568.5	1524.5
15°	2139.9	2069.2	1990.1	1913.1	1832.7	1759.1	1691.1	1630.6	1573.6	1513.7	1471.8
17.5°	2199.0	2115.0	2018.9	1926.3	1831.3	1744.6	1666.0	1594.1	1528.2	1467.1	1417.2
20°	2234.1	2141.3	2034.8	1929.6	1823.1	1730.3	1645.7	1566.0	1497.9	1431.9	1380.4
22.5°	2253.9	2151.2	2034.8	1924.7	1814.3	1713.7	1620.9	1537.9	1463.8	1397.8	1340.7
25°	2260.3	2150.3	2031.4	1904.9	1783.9	1677.3	1581.1	1491.0	1408.5	1342.6	1282.0
27.5°	2251.5	2121.9	2000.2	1870.4	1745.5	1633.2	1532.1	1437.5	1355.0	1284.1	1222.1
30°	2238.3	2099.4	1968.8	1834.1	1707.5	1599.7	1493.1	1402.4	1316.5	1242.9	1180.3
32.5°	2209.7	2071.9	1931.4	1793.4	1665.3	1554.0	1452.9	1361.7	1277.4	1202.2	1135.7
35°	2153.0	2013.4	1860.9	1719.2	1593.5	1478.0	1383.1	1295.1	1214.7	1134.3	1064.1
37.5°	2078.4	1935.8	1784.0	1628.9	1503.0	1394.0	1306.9	1224.3	1145.8	1072.4	994.7
40°	2008.0	1878.1	1721.3	1567.4	1438.1	1332.9	1252.5	1177.6	1098.5	1025.6	948.0
42.5°	1922.8	1812.1	1653.7	1499.2	1371.6	1270.2	1195.3	1122.1	1050.2	979.5	898.5
45°	1780.5	1696.6	1548.1	1399.6	1271.1	1170.7	1102.0	1037.3	974.0	906.7	830.4
47.5°	1617.4	1560.6	1432.4	1280.4	1161.5	1071.2	1004.8	951.9	898.5	831.1	764.1
50°	1504.1	1467.7	1343.9	1205.1	1091.7	1008.5	940.4	890.9	846.2	781.6	721.8
52.5°	1383.1	1363.7	1259.2	1126.4	1016.8	935.3	877.2	832.6	787.4	733.7	677.8
55°	1198.9	1209.2	1120.5	1005.7	902.6	833.9	780.9	743.8	705.3	660.0	616.6
57.5°	1010.6	1048.2	988.7	887.9	791.3	727.7	687.9	656.6	624.3	586.7	549.7
60°	897.8	929.4	895.7	807.0	722.5	663.4	626.3	602.2	569.9	535.5	507.3
62.5°	787.8	821.7	801.7	730.0	651.5	600.7	567.9	545.5	521.5	491.5	462.3
65°	649.6	671.6	662.0	612.5	556.8	513.5	483.3	466.7	444.8	422.8	396.7
67.5°	497.6	540.0	534.4	508.2	460.0	426.2	406.4	391.8	371.8	355.4	337.7
70°	409.1	448.2	447.5	426.2	400.1	368.4	354.7	342.3	324.4	308.7	294.2
72.5°	334.8	370.7	376.0	359.6	341.8	317.9	304.7	296.2	278.8	267.9	256.2
75°	234.5	260.5	267.4	267.4	259.2	246.8	235.1	229.6	217.2	207.6	200.7
77.5°	153.7	170.2	180.9	183.4	184.7	180.6	170.9	167.0	157.6	154.1	147.5
80°	108.6	119.6	132.0	136.1	139.6	138.2	134.1	131.3	122.3	118.9	116.1
82.5°	75.1	81.1	91.3	100.4	99.4	103.0	99.4	97.2	90.5	89.2	86.4
85°	39.2	39.9	41.2	47.4	50.9	52.3	53.0	51.6	49.5	49.5	44.7
87.5°	16.0	15.4	15.3	15.3	15.7	17.7	18.8	18.9	17.7	16.6	15.2
90°	14.0	14.0	8.0	8.0	7.0	6.0	3.0	1.0	3.0	6.0	7.0
92.5°	202.1	124.5	73.6	52.9	38.2	26.0	16.6	11.4	16.6	26.0	38.2
95°	376.2	212.1	125.1	83.0	59.1	46.1	36.0	33.0	36.0	46.1	59.1
97.5°	338.2	202.7	135.7	100.5	79.8	67.8	59.2	59.2	59.2	67.8	79.8
100°	318.1	205.1	146.1	114.1	95.1	83.0	76.0	76.0	76.0	83.0	95.1
102.5°	312.5	213.1	159.7	129.2	111.1	99.9	93.7	92.0	93.7	99.9	111.1
105°	315.1	232.1	184.1	155.1	137.1	125.1	120.0	117.1	120.0	125.1	137.1
107.5°	329.9	254.3	210.3	181.7	164.5	151.7	146.6	144.6	146.6	151.7	164.5
110°	341.1	271.1	227.1	200.1	182.1	170.0	165.1	163.1	165.1	170.0	182.1



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	353.2	287.1	244.7	217.7	199.7	188.5	182.7	180.7	182.7	188.5	199.7
115°	372.2	312.1	272.2	245.1	226.1	216.1	209.1	206.1	209.1	216.1	226.1
117.5°	391.6	336.4	298.3	270.4	252.5	241.5	235.3	232.5	235.3	241.5	252.5
120°	405.2	353.2	315.1	287.1	270.1	259.2	252.1	250.1	252.1	259.2	270.1
122.5°	418.0	369.2	331.1	303.9	285.3	275.2	268.1	266.1	268.1	275.2	285.3
125°	437.2	391.2	355.2	327.2	308.2	297.1	291.1	287.1	291.1	297.1	308.2
127.5°	453.8	411.6	376.8	348.5	328.7	316.2	308.9	305.7	308.9	316.2	328.7
130°	464.3	425.2	391.2	362.1	343.2	328.1	320.1	316.2	320.1	328.1	343.2
132.5°	474.7	436.4	402.4	375.0	354.4	340.2	329.8	326.6	329.8	340.2	354.4
135°	488.3	452.2	419.2	393.2	372.2	355.2	345.2	341.1	345.2	355.2	372.2
137.5°	497.8	464.3	433.4	408.6	386.8	370.6	359.6	355.8	359.6	370.6	386.8
140°	504.2	472.3	442.2	418.2	397.2	380.2	369.2	366.2	369.2	380.2	397.2
142.5°	509.0	479.4	450.2	427.0	406.8	390.5	380.4	377.4	380.4	390.5	406.8
145°	514.3	487.2	461.2	439.2	420.2	406.2	396.2	393.2	396.2	406.2	420.2
147.5°	518.8	495.2	470.8	451.0	435.2	420.8	412.0	411.0	412.0	420.8	435.2
150°	521.2	499.2	477.3	458.2	443.2	431.2	423.2	422.2	423.2	431.2	443.2
152.5°	522.9	502.5	482.8	465.5	452.0	440.8	432.8	432.6	432.8	440.8	452.0
155°	524.3	507.2	490.3	475.3	464.3	454.2	448.2	447.2	448.2	454.2	464.3
157.5°	524.3	510.7	496.3	484.4	474.8	467.0	461.4	461.4	461.4	467.0	474.8
160°	524.3	512.2	500.2	489.2	481.2	474.2	470.2	470.2	470.2	474.2	481.2
162.5°	524.3	513.8	502.7	494.0	486.8	480.6	477.4	478.2	477.4	480.6	486.8
165°	522.3	514.3	505.2	499.2	494.2	489.2	487.2	487.2	487.2	489.2	494.2
167.5°	519.9	514.0	507.5	502.8	500.1	496.3	495.2	496.3	495.2	496.3	500.1
170°	518.2	513.2	508.2	505.2	503.3	500.2	499.2	500.2	499.2	500.2	503.3
172.5°	516.7	512.5	509.0	506.9	505.7	503.4	503.3	504.2	503.3	503.4	505.7
175°	514.3	511.3	509.3	509.3	508.2	507.2	507.2	508.2	507.2	507.2	508.2
177.5°	511.6	510.1	509.3	509.3	509.3	508.4	509.3	510.1	509.3	508.4	509.3
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1675.4	1669.9	1662.8	1654.5	1644.6	1635.8	1631.9	1635.3	1636.9	1632.5	1631.9
5°	1624.4	1607.2	1593.5	1572.9	1556.3	1542.6	1533.0	1528.9	1530.3	1519.2	1516.5
7.5°	1567.1	1546.7	1524.1	1499.7	1476.9	1456.6	1446.0	1440.3	1428.7	1423.7	1415.3
10°	1530.3	1502.7	1480.7	1451.8	1425.7	1401.7	1390.0	1380.4	1368.6	1363.1	1351.5
12.5°	1492.3	1460.3	1436.1	1406.2	1379.5	1350.6	1339.4	1321.5	1303.2	1291.7	1276.7
15°	1438.8	1400.3	1370.7	1335.0	1303.4	1270.4	1240.8	1207.8	1195.4	1169.3	1154.2
17.5°	1376.2	1337.2	1300.6	1252.7	1203.9	1162.9	1131.4	1099.8	1080.8	1064.1	1056.4
20°	1335.0	1299.2	1248.4	1192.7	1138.4	1093.0	1067.6	1047.0	1026.3	1014.7	1006.4
22.5°	1296.0	1250.3	1191.2	1131.1	1076.8	1041.3	1019.8	998.6	981.8	970.7	959.7
25°	1230.5	1170.7	1108.1	1039.4	1002.3	971.4	948.0	930.7	920.5	906.0	900.5
27.5°	1163.3	1090.8	1021.8	975.6	936.9	908.6	888.3	875.4	862.3	853.1	845.9
30°	1111.6	1038.0	976.1	932.1	892.9	869.6	853.1	838.0	827.7	820.1	814.6
32.5°	1060.4	986.9	934.9	887.6	856.7	833.9	816.2	804.9	796.9	787.1	783.8
35°	986.4	921.2	875.8	833.2	801.5	780.9	767.2	755.5	748.6	745.9	743.8
37.5°	915.4	861.9	813.1	778.2	750.0	733.7	717.6	711.8	707.1	702.1	704.4
40°	870.3	820.1	776.8	739.7	717.0	699.1	689.5	682.6	678.5	678.5	678.5
42.5°	831.2	782.1	739.9	706.7	684.0	668.9	658.1	652.4	651.0	650.5	653.8
45°	770.6	725.2	682.6	655.1	635.8	620.8	614.6	609.8	609.8	612.5	613.2
47.5°	710.5	668.0	633.8	603.0	585.4	575.9	570.6	568.1	568.3	571.1	574.3
50°	673.6	631.7	598.1	570.6	554.1	545.1	540.3	539.0	540.3	540.3	545.1
52.5°	633.5	596.0	562.8	539.8	521.1	512.7	510.1	508.2	508.9	511.2	513.2
55°	574.7	541.0	509.4	487.4	473.6	468.1	461.9	462.6	461.2	462.6	462.6
57.5°	515.7	485.4	456.1	438.6	426.5	418.5	411.7	413.7	411.6	411.4	410.3
60°	477.8	444.8	421.4	405.6	391.8	385.0	378.8	380.1	378.1	376.7	373.9
62.5°	436.5	409.1	386.8	371.5	360.5	352.5	346.3	344.9	340.2	335.4	329.4
65°	376.7	354.0	334.1	319.7	309.4	303.2	298.3	294.2	283.9	272.9	267.4
67.5°	318.6	302.2	283.6	271.4	263.0	254.9	245.7	238.7	229.0	223.0	219.6
70°	281.1	265.4	249.5	237.8	228.9	221.4	211.0	206.2	199.3	196.6	193.2
72.5°	245.4	230.7	216.0	205.4	195.9	190.0	181.9	177.1	174.1	173.0	169.5
75°	191.1	179.4	168.4	158.8	151.3	147.1	143.7	140.3	138.9	132.7	129.2
77.5°	139.4	131.7	124.8	118.0	112.6	109.9	103.2	99.3	96.9	94.0	93.3
80°	108.6	103.1	96.3	92.1	84.6	81.8	79.0	78.4	77.7	77.0	76.3
82.5°	81.7	76.2	69.3	66.8	64.7	63.1	61.5	60.8	60.1	60.5	60.4
85°	41.2	38.5	38.5	37.8	37.1	36.4	35.7	35.7	35.0	35.7	35.0
87.5°	15.3	14.8	16.0	14.9	15.8	16.3	15.5	15.7	16.4	15.6	15.6
90°	8.0	8.0	14.0	14.0	16.0	18.0	17.0	18.0	19.0	20.0	20.0
92.5°	52.9	73.6	124.5	202.1	277.8	317.4	264.3	196.5	147.8	117.7	97.6
95°	83.0	125.1	212.1	376.2	615.3	815.4	838.4	741.3	586.3	452.2	355.2
97.5°	100.5	135.7	202.7	338.2	575.8	858.8	1053.3	1095.4	1037.7	939.9	835.4
100°	114.1	146.1	205.1	318.1	522.3	804.3	1060.5	1206.6	1226.6	1177.6	1103.5
102.5°	129.2	159.7	213.1	312.5	486.2	736.3	1000.5	1201.0	1300.2	1314.4	1283.6
105°	155.1	184.1	232.1	315.1	455.2	656.3	891.4	1120.5	1293.7	1392.7	1433.7
107.5°	181.7	210.3	254.3	329.9	449.6	611.5	803.4	1006.3	1190.6	1330.1	1419.3
110°	200.1	227.1	271.1	341.1	451.3	596.3	759.4	937.5	1110.5	1255.6	1365.6



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	217.7	244.7	287.1	353.2	456.0	589.1	734.5	887.0	1040.1	1177.2	1287.2
115°	245.1	272.2	312.1	372.2	465.2	585.3	711.4	836.4	959.5	1076.5	1172.6
117.5°	270.4	298.3	336.4	391.6	475.0	584.3	700.9	811.6	913.4	1005.5	1086.9
120°	287.1	315.1	353.2	405.2	482.2	584.3	695.3	800.4	893.5	973.4	1044.5
122.5°	303.9	331.1	369.2	418.0	489.5	583.5	689.0	790.7	880.6	953.5	1015.7
125°	327.2	355.2	391.2	437.2	500.2	582.3	678.3	774.4	860.4	929.4	984.5
127.5°	348.5	376.8	411.6	453.8	508.9	580.1	664.1	754.3	836.6	905.4	957.7
130°	362.1	391.2	425.2	464.3	515.2	579.3	655.3	738.4	817.4	885.5	938.5
132.5°	375.0	402.4	436.4	474.7	520.8	578.5	647.3	721.5	795.8	862.2	915.2
135°	393.2	419.2	452.2	488.3	529.3	577.3	635.3	698.4	763.4	824.4	874.4
137.5°	408.6	433.4	464.3	497.8	534.3	577.0	624.9	677.3	732.4	783.8	829.0
140°	418.2	442.2	472.3	504.2	538.3	576.3	619.3	665.3	712.3	757.3	799.4
142.5°	427.0	450.2	479.4	509.0	541.5	576.3	614.5	654.1	695.5	734.2	770.6
145°	439.2	461.2	487.2	514.3	543.3	574.3	606.3	638.3	672.4	702.3	730.4
147.5°	451.0	470.8	495.2	518.8	544.2	570.7	598.9	625.3	652.3	676.3	698.4
150°	458.2	477.3	499.2	521.2	544.2	568.3	593.3	617.3	640.3	660.3	678.3
152.5°	465.5	482.8	502.5	522.9	542.7	564.3	586.9	608.5	628.3	646.7	661.5
155°	475.3	490.3	507.2	524.3	540.3	558.3	577.3	595.3	611.3	626.3	638.3
157.5°	484.4	496.3	510.7	524.3	537.7	552.1	567.5	581.1	594.5	607.1	616.7
160°	489.2	500.2	512.2	524.3	535.3	547.3	560.3	572.3	583.2	594.3	602.3
162.5°	494.0	502.7	513.8	524.3	532.9	542.4	553.9	563.4	572.9	581.5	588.7
165°	499.2	505.2	514.3	522.3	528.2	535.3	543.3	551.3	557.2	564.3	569.3
167.5°	502.8	507.5	514.0	519.9	523.5	528.1	533.6	539.5	544.1	549.7	552.7
170°	505.2	508.2	513.2	518.2	520.2	523.2	527.3	532.3	535.3	539.2	542.3
172.5°	506.9	509.0	512.5	516.7	517.0	518.4	521.7	525.8	528.1	530.5	532.6
175°	509.3	509.3	511.3	514.3	513.2	513.2	515.2	517.3	518.2	520.2	520.2
177.5°	509.3	509.3	510.1	511.6	510.1	510.1	510.8	511.6	512.5	512.5	513.2
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1628.7	1629.8	1625.9	1624.8	1625.9	1629.8	1628.7	1631.9	1632.5	1636.9	1635.3
5°	1511.0	1509.6	1506.1	1506.8	1506.1	1509.6	1511.0	1516.5	1519.2	1530.3	1528.9
7.5°	1410.3	1405.0	1406.4	1401.0	1406.4	1405.0	1410.3	1415.3	1423.7	1428.7	1440.3
10°	1348.8	1341.2	1335.0	1329.5	1335.0	1341.2	1348.8	1351.5	1363.1	1368.6	1380.4
12.5°	1264.6	1258.1	1249.7	1251.4	1249.7	1258.1	1264.6	1276.7	1291.7	1303.2	1321.5
15°	1145.2	1135.0	1118.4	1120.5	1118.4	1135.0	1145.2	1154.2	1169.3	1195.4	1207.8
17.5°	1044.2	1044.3	1036.8	1038.5	1036.8	1044.3	1044.2	1056.4	1064.1	1080.8	1099.8
20°	992.0	987.1	987.8	985.8	987.8	987.1	992.0	1006.4	1014.7	1026.3	1047.0
22.5°	955.6	949.8	944.9	940.6	944.9	949.8	955.6	959.7	970.7	981.8	998.6
25°	894.3	890.2	884.1	882.7	884.1	890.2	894.3	900.5	906.0	920.5	930.7
27.5°	840.4	839.6	837.2	834.0	837.2	839.6	840.4	845.9	853.1	862.3	875.4
30°	809.1	807.7	806.3	804.3	806.3	807.7	809.1	814.6	820.1	827.7	838.0
32.5°	781.1	780.2	778.9	779.0	778.9	780.2	781.1	783.8	787.1	796.9	804.9
35°	741.1	740.4	739.0	738.3	739.0	740.4	741.1	743.8	745.9	748.6	755.5
37.5°	703.7	705.4	704.6	704.5	704.6	705.4	703.7	704.4	702.1	707.1	711.8
40°	677.8	678.5	679.8	679.2	679.8	678.5	677.8	678.5	678.5	678.5	682.6
42.5°	656.3	656.5	658.4	656.1	658.4	656.5	656.3	653.8	650.5	651.0	652.4
45°	618.0	622.2	621.5	621.5	621.5	622.2	618.0	613.2	612.5	609.8	609.8
47.5°	576.1	579.6	580.6	580.5	580.6	579.6	576.1	574.3	571.1	568.3	568.1
50°	548.5	547.2	549.2	548.5	549.2	547.2	548.5	545.1	540.3	540.3	539.0
52.5°	515.1	515.3	515.1	514.4	515.1	515.3	515.1	513.2	511.2	508.9	508.2
55°	463.3	464.0	462.6	463.3	462.6	464.0	463.3	462.6	462.6	461.2	462.6
57.5°	407.3	403.9	405.3	403.6	405.3	403.9	407.3	410.3	411.4	411.6	413.7
60°	367.1	361.6	360.2	357.5	360.2	361.6	367.1	373.9	376.7	378.1	380.1
62.5°	322.0	318.1	313.5	315.6	313.5	318.1	322.0	329.4	335.4	340.2	344.9
65°	261.9	259.2	257.1	259.8	257.1	259.2	261.9	267.4	272.9	283.9	294.2
67.5°	216.8	215.3	215.3	214.0	215.3	215.3	216.8	219.6	223.0	229.0	238.7
70°	193.2	191.1	191.1	189.8	191.1	191.1	193.2	193.2	196.6	199.3	206.2
72.5°	168.9	166.9	167.5	166.6	167.5	166.9	168.9	169.5	173.0	174.1	177.1
75°	125.1	121.7	121.7	122.3	121.7	121.7	125.1	129.2	132.7	138.9	140.3
77.5°	93.3	92.6	93.6	92.4	93.6	92.6	93.3	93.3	94.0	96.9	99.3
80°	76.3	75.6	74.9	77.0	74.9	75.6	76.3	76.3	77.0	77.7	78.4
82.5°	59.2	59.2	59.0	61.6	59.0	59.2	59.2	60.4	60.5	60.1	60.8
85°	35.7	34.4	35.7	34.4	35.7	34.4	35.7	35.0	35.7	35.0	35.7
87.5°	16.9	16.5	15.8	16.3	15.8	16.5	16.9	15.6	15.6	16.4	15.7
90°	21.0	22.0	21.0	21.0	21.0	22.0	21.0	20.0	20.0	19.0	18.0
92.5°	85.8	80.4	77.1	77.1	77.1	80.4	85.8	97.6	117.7	147.8	196.5
95°	306.2	275.2	257.1	244.1	257.1	275.2	306.2	355.2	452.2	586.3	741.3
97.5°	763.5	703.4	673.3	652.6	673.3	703.4	763.5	835.4	939.9	1037.7	1095.4
100°	1016.5	955.5	925.5	917.5	925.5	955.5	1016.5	1103.5	1177.6	1226.6	1206.6
102.5°	1230.2	1185.9	1154.3	1148.0	1154.3	1185.9	1230.2	1283.6	1314.4	1300.2	1201.0
105°	1435.7	1427.7	1413.7	1407.6	1413.7	1427.7	1435.7	1433.7	1392.7	1293.7	1120.5
107.5°	1468.7	1491.5	1501.5	1504.2	1501.5	1491.5	1468.7	1419.3	1330.1	1190.6	1006.3
110°	1436.7	1478.7	1496.8	1505.7	1496.8	1478.7	1436.7	1365.6	1255.6	1110.5	937.5



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1367.9	1418.7	1443.9	1458.5	1443.9	1418.7	1367.9	1287.2	1177.2	1040.1	887.0
115°	1251.6	1311.6	1343.7	1351.7	1343.7	1311.6	1251.6	1172.6	1076.5	959.5	836.4
117.5°	1154.3	1204.8	1237.2	1243.4	1237.2	1204.8	1154.3	1086.9	1005.5	913.4	811.6
120°	1101.6	1145.6	1171.6	1182.6	1171.6	1145.6	1101.6	1044.5	973.4	893.5	800.4
122.5°	1063.9	1101.6	1123.5	1134.5	1123.5	1101.6	1063.9	1015.7	953.5	880.6	790.7
125°	1024.5	1053.5	1072.5	1078.5	1072.5	1053.5	1024.5	984.5	929.4	860.4	774.4
127.5°	997.9	1023.7	1039.7	1045.7	1039.7	1023.7	997.9	957.7	905.4	836.6	754.3
130°	979.5	1004.4	1020.5	1026.5	1020.5	1004.4	979.5	938.5	885.5	817.4	738.4
132.5°	955.5	983.7	998.8	1004.9	998.8	983.7	955.5	915.2	862.2	795.8	721.5
135°	914.5	942.5	958.5	964.5	958.5	942.5	914.5	874.4	824.4	763.4	698.4
137.5°	866.4	894.1	907.2	914.5	907.2	894.1	866.4	829.0	783.8	732.4	677.3
140°	834.4	856.4	870.4	878.4	870.4	856.4	834.4	799.4	757.3	712.3	665.3
142.5°	801.6	822.0	834.4	840.0	834.4	822.0	801.6	770.6	734.2	695.5	654.1
145°	755.4	772.4	782.4	787.4	782.4	772.4	755.4	730.4	702.3	672.4	638.3
147.5°	716.8	731.3	739.0	740.7	739.0	731.3	716.8	698.4	676.3	652.3	625.3
150°	694.3	707.3	713.3	714.4	713.3	707.3	694.3	678.3	660.3	640.3	617.3
152.5°	675.1	685.7	689.3	690.3	689.3	685.7	675.1	661.5	646.7	628.3	608.5
155°	648.3	656.3	659.4	659.4	659.4	656.3	648.3	638.3	626.3	611.3	595.3
157.5°	624.3	630.3	632.1	632.1	632.1	630.3	624.3	616.7	607.1	594.5	581.1
160°	608.3	614.3	615.3	615.3	615.3	614.3	608.3	602.3	594.3	583.2	572.3
162.5°	593.1	599.1	600.1	599.3	600.1	599.1	593.1	588.7	581.5	572.9	563.4
165°	573.3	577.3	576.3	575.3	576.3	577.3	573.3	569.3	564.3	557.2	551.3
167.5°	554.7	557.2	557.1	556.3	557.1	557.2	554.7	552.7	549.7	544.1	539.5
170°	544.2	545.3	544.2	544.2	544.2	545.3	544.2	542.3	539.2	535.3	532.3
172.5°	533.8	534.9	533.8	532.3	533.8	534.9	533.8	532.6	530.5	528.1	525.8
175°	520.2	522.3	520.2	518.2	520.2	522.3	520.2	520.2	520.2	518.2	517.3
177.5°	512.5	513.2	511.6	510.1	511.6	513.2	512.5	513.2	512.5	512.5	511.6
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1631.9	1635.8	1644.6	1654.5	1662.8	1669.9	1675.4	1683.1	1690.2	1700.1	1709.5
5°	1533.0	1542.6	1556.3	1572.9	1593.5	1607.2	1624.4	1639.5	1661.6	1683.5	1704.9
7.5°	1446.0	1456.6	1476.9	1499.7	1524.1	1546.7	1567.1	1593.7	1622.9	1654.9	1690.7
10°	1390.0	1401.7	1425.7	1451.8	1480.7	1502.7	1530.3	1561.9	1594.8	1634.0	1678.0
12.5°	1339.4	1350.6	1379.5	1406.2	1436.1	1460.3	1492.3	1524.5	1568.5	1610.9	1661.0
15°	1240.8	1270.4	1303.4	1335.0	1370.7	1400.3	1438.8	1471.8	1513.7	1573.6	1630.6
17.5°	1131.4	1162.9	1203.9	1252.7	1300.6	1337.2	1376.2	1417.2	1467.1	1528.2	1594.1
20°	1067.6	1093.0	1138.4	1192.7	1248.4	1299.2	1335.0	1380.4	1431.9	1497.9	1566.0
22.5°	1019.8	1041.3	1076.8	1131.1	1191.2	1250.3	1296.0	1340.7	1397.8	1463.8	1537.9
25°	948.0	971.4	1002.3	1039.4	1108.1	1170.7	1230.5	1282.0	1342.6	1408.5	1491.0
27.5°	888.3	908.6	936.9	975.6	1021.8	1090.8	1163.3	1222.1	1284.1	1355.0	1437.5
30°	853.1	869.6	892.9	932.1	976.1	1038.0	1111.6	1180.3	1242.9	1316.5	1402.4
32.5°	816.2	833.9	856.7	887.6	934.9	986.9	1060.4	1135.7	1202.2	1277.4	1361.7
35°	767.2	780.9	801.5	833.2	875.8	921.2	986.4	1064.1	1134.3	1214.7	1295.1
37.5°	717.6	733.7	750.0	778.2	813.1	861.9	915.4	994.7	1072.4	1145.8	1224.3
40°	689.5	699.1	717.0	739.7	776.8	820.1	870.3	948.0	1025.6	1098.5	1177.6
42.5°	658.1	668.9	684.0	706.7	739.9	782.1	831.2	898.5	979.5	1050.2	1122.1
45°	614.6	620.8	635.8	655.1	682.6	725.2	770.6	830.4	906.7	974.0	1037.3
47.5°	570.6	575.9	585.4	603.0	633.8	668.0	710.5	764.1	831.1	898.5	951.9
50°	540.3	545.1	554.1	570.6	598.1	631.7	673.6	721.8	781.6	846.2	890.9
52.5°	510.1	512.7	521.1	539.8	562.8	596.0	633.5	677.8	733.7	787.4	832.6
55°	461.9	468.1	473.6	487.4	509.4	541.0	574.7	616.6	660.0	705.3	743.8
57.5°	411.7	418.5	426.5	438.6	456.1	485.4	515.7	549.7	586.7	624.3	656.6
60°	378.8	385.0	391.8	405.6	421.4	444.8	477.8	507.3	535.5	569.9	602.2
62.5°	346.3	352.5	360.5	371.5	386.8	409.1	436.5	462.3	491.5	521.5	545.5
65°	298.3	303.2	309.4	319.7	334.1	354.0	376.7	396.7	422.8	444.8	466.7
67.5°	245.7	254.9	263.0	271.4	283.6	302.2	318.6	337.7	355.4	371.8	391.8
70°	211.0	221.4	228.9	237.8	249.5	265.4	281.1	294.2	308.7	324.4	342.3
72.5°	181.9	190.0	195.9	205.4	216.0	230.7	245.4	256.2	267.9	278.8	296.2
75°	143.7	147.1	151.3	158.8	168.4	179.4	191.1	200.7	207.6	217.2	229.6
77.5°	103.2	109.9	112.6	118.0	124.8	131.7	139.4	147.5	154.1	157.6	167.0
80°	79.0	81.8	84.6	92.1	96.3	103.1	108.6	116.1	118.9	122.3	131.3
82.5°	61.5	63.1	64.7	66.8	69.3	76.2	81.7	86.4	89.2	90.5	97.2
85°	35.7	36.4	37.1	37.8	38.5	38.5	41.2	44.7	49.5	49.5	51.6
87.5°	15.5	16.3	15.8	14.9	16.0	14.8	15.3	15.2	16.6	17.7	18.9
90°	17.0	18.0	16.0	14.0	14.0	8.0	8.0	7.0	6.0	3.0	1.0
92.5°	264.3	317.4	277.8	202.1	124.5	73.6	52.9	38.2	26.0	16.6	11.4
95°	838.4	815.4	615.3	376.2	212.1	125.1	83.0	59.1	46.1	36.0	33.0
97.5°	1053.3	858.8	575.8	338.2	202.7	135.7	100.5	79.8	67.8	59.2	59.2
100°	1060.5	804.3	522.3	318.1	205.1	146.1	114.1	95.1	83.0	76.0	76.0
102.5°	1000.5	736.3	486.2	312.5	213.1	159.7	129.2	111.1	99.9	93.7	92.0
105°	891.4	656.3	455.2	315.1	232.1	184.1	155.1	137.1	125.1	120.0	117.1
107.5°	803.4	611.5	449.6	329.9	254.3	210.3	181.7	164.5	151.7	146.6	144.6
110°	759.4	596.3	451.3	341.1	271.1	227.1	200.1	182.1	170.0	165.1	163.1



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	734.5	589.1	456.0	353.2	287.1	244.7	217.7	199.7	188.5	182.7	180.7
115°	711.4	585.3	465.2	372.2	312.1	272.2	245.1	226.1	216.1	209.1	206.1
117.5°	700.9	584.3	475.0	391.6	336.4	298.3	270.4	252.5	241.5	235.3	232.5
120°	695.3	584.3	482.2	405.2	353.2	315.1	287.1	270.1	259.2	252.1	250.1
122.5°	689.0	583.5	489.5	418.0	369.2	331.1	303.9	285.3	275.2	268.1	266.1
125°	678.3	582.3	500.2	437.2	391.2	355.2	327.2	308.2	297.1	291.1	287.1
127.5°	664.1	580.1	508.9	453.8	411.6	376.8	348.5	328.7	316.2	308.9	305.7
130°	655.3	579.3	515.2	464.3	425.2	391.2	362.1	343.2	328.1	320.1	316.2
132.5°	647.3	578.5	520.8	474.7	436.4	402.4	375.0	354.4	340.2	329.8	326.6
135°	635.3	577.3	529.3	488.3	452.2	419.2	393.2	372.2	355.2	345.2	341.1
137.5°	624.9	577.0	534.3	497.8	464.3	433.4	408.6	386.8	370.6	359.6	355.8
140°	619.3	576.3	538.3	504.2	472.3	442.2	418.2	397.2	380.2	369.2	366.2
142.5°	614.5	576.3	541.5	509.0	479.4	450.2	427.0	406.8	390.5	380.4	377.4
145°	606.3	574.3	543.3	514.3	487.2	461.2	439.2	420.2	406.2	396.2	393.2
147.5°	598.9	570.7	544.2	518.8	495.2	470.8	451.0	435.2	420.8	412.0	411.0
150°	593.3	568.3	544.2	521.2	499.2	477.3	458.2	443.2	431.2	423.2	422.2
152.5°	586.9	564.3	542.7	522.9	502.5	482.8	465.5	452.0	440.8	432.8	432.6
155°	577.3	558.3	540.3	524.3	507.2	490.3	475.3	464.3	454.2	448.2	447.2
157.5°	567.5	552.1	537.7	524.3	510.7	496.3	484.4	474.8	467.0	461.4	461.4
160°	560.3	547.3	535.3	524.3	512.2	500.2	489.2	481.2	474.2	470.2	470.2
162.5°	553.9	542.4	532.9	524.3	513.8	502.7	494.0	486.8	480.6	477.4	478.2
165°	543.3	535.3	528.2	522.3	514.3	505.2	499.2	494.2	489.2	487.2	487.2
167.5°	533.6	528.1	523.5	519.9	514.0	507.5	502.8	500.1	496.3	495.2	496.3
170°	527.3	523.2	520.2	518.2	513.2	508.2	505.2	503.3	500.2	499.2	500.2
172.5°	521.7	518.4	517.0	516.7	512.5	509.0	506.9	505.7	503.4	503.3	504.2
175°	515.2	513.2	513.2	514.3	511.3	509.3	509.3	508.2	507.2	507.2	508.2
177.5°	510.8	510.1	510.1	511.6	510.1	509.3	509.3	509.3	508.4	509.3	510.1
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1716.7	1721.6	1727.1	1737.6	1746.4	1750.2	1757.9	1763.4	1761.8	1769.4	1782.6
5°	1723.4	1742.0	1763.2	1785.3	1810.0	1830.7	1847.1	1863.6	1876.7	1892.5	1915.9
7.5°	1722.3	1755.3	1791.1	1830.7	1871.2	1906.3	1938.7	1971.7	2001.0	2033.0	2074.9
10°	1717.9	1761.9	1806.6	1858.1	1909.7	1958.5	2002.5	2043.8	2082.9	2124.9	2177.8
12.5°	1713.0	1763.5	1817.6	1879.6	1943.8	2002.5	2054.2	2113.6	2162.7	2216.7	2277.9
15°	1691.1	1759.1	1832.7	1913.1	1990.1	2069.2	2139.9	2212.9	2280.9	2345.5	2422.5
17.5°	1666.0	1744.6	1831.3	1926.3	2018.9	2115.0	2199.0	2290.8	2360.3	2447.1	2518.6
20°	1645.7	1730.3	1823.1	1929.6	2034.8	2141.3	2234.1	2327.6	2406.0	2493.3	2584.0
22.5°	1620.9	1713.7	1814.3	1924.7	2034.8	2151.2	2253.9	2346.9	2443.9	2542.3	2635.8
25°	1581.1	1677.3	1783.9	1904.9	2031.4	2150.3	2260.3	2375.8	2480.3	2586.8	2670.6
27.5°	1532.1	1633.2	1745.5	1870.4	2000.2	2121.9	2251.5	2374.6	2479.7	2582.2	2655.4
30°	1493.1	1599.7	1707.5	1834.1	1968.8	2099.4	2238.3	2361.3	2472.0	2564.1	2605.4
32.5°	1452.9	1554.0	1665.3	1793.4	1931.4	2071.9	2209.7	2335.5	2437.9	2493.2	2494.2
35°	1383.1	1478.0	1593.5	1719.2	1860.9	2013.4	2153.0	2276.7	2339.3	2344.2	2276.7
37.5°	1306.9	1394.0	1503.0	1628.9	1784.0	1935.8	2078.4	2160.9	2181.8	2111.8	1987.2
40°	1252.5	1332.9	1438.1	1567.4	1721.3	1878.1	2008.0	2068.5	2046.5	1933.0	1794.2
42.5°	1195.3	1270.2	1371.6	1499.2	1653.7	1812.1	1922.8	1955.2	1896.9	1765.9	1603.4
45°	1102.0	1170.7	1271.1	1399.6	1548.1	1696.6	1780.5	1763.9	1667.0	1511.7	1329.5
47.5°	1004.8	1071.2	1161.5	1280.4	1432.4	1560.6	1617.4	1567.6	1429.7	1258.8	1110.6
50°	940.4	1008.5	1091.7	1205.1	1343.9	1467.7	1504.1	1428.5	1275.1	1110.9	974.7
52.5°	877.2	935.3	1016.8	1126.4	1259.2	1363.7	1383.1	1296.0	1137.7	990.4	869.7
55°	780.9	833.9	902.6	1005.7	1120.5	1209.2	1198.9	1086.8	943.1	817.3	722.5
57.5°	687.9	727.7	791.3	887.9	988.7	1048.2	1010.6	915.0	781.1	678.1	598.1
60°	626.3	663.4	722.5	807.0	895.7	929.4	897.8	794.0	688.1	593.9	526.6
62.5°	567.9	600.7	651.5	730.0	801.7	821.7	787.8	697.2	601.8	521.3	465.5
65°	483.3	513.5	556.8	612.5	662.0	671.6	649.6	556.8	484.7	417.2	378.8
67.5°	406.4	426.2	460.0	508.2	534.4	540.0	497.6	439.3	375.7	334.2	305.2
70°	354.7	368.4	400.1	426.2	447.5	448.2	409.1	362.3	313.5	279.8	258.5
72.5°	304.7	317.9	341.8	359.6	376.0	370.7	334.8	297.9	258.5	233.1	217.2
75°	235.1	246.8	259.2	267.4	267.4	260.5	234.5	206.9	184.3	169.1	164.3
77.5°	170.9	180.6	184.7	183.4	180.9	170.2	153.7	135.7	127.6	120.5	116.8
80°	134.1	138.2	139.6	136.1	132.0	119.6	108.6	101.1	93.5	90.7	89.4
82.5°	99.4	103.0	99.4	100.4	91.3	81.1	75.1	72.5	69.3	68.2	66.8
85°	53.0	52.3	50.9	47.4	41.2	39.9	39.2	38.5	37.1	37.8	36.4
87.5°	18.8	17.7	15.7	15.3	15.3	15.4	16.0	16.4	16.8	16.0	17.4
90°	3.0	6.0	7.0	8.0	8.0	14.0	14.0	16.0	18.0	17.0	18.0
92.5°	16.6	26.0	38.2	52.9	73.6	124.5	202.1	277.8	317.4	264.3	196.5
95°	36.0	46.1	59.1	83.0	125.1	212.1	376.2	615.3	815.4	838.4	741.3
97.5°	59.2	67.8	79.8	100.5	135.7	202.7	338.2	575.8	858.8	1053.3	1095.4
100°	76.0	83.0	95.1	114.1	146.1	205.1	318.1	522.3	804.3	1060.5	1206.6
102.5°	93.7	99.9	111.1	129.2	159.7	213.1	312.5	486.2	736.3	1000.5	1201.0
105°	120.0	125.1	137.1	155.1	184.1	232.1	315.1	455.2	656.3	891.4	1120.5
107.5°	146.6	151.7	164.5	181.7	210.3	254.3	329.9	449.6	611.5	803.4	1006.3
110°	165.1	170.0	182.1	200.1	227.1	271.1	341.1	451.3	596.3	759.4	937.5



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	182.7	188.5	199.7	217.7	244.7	287.1	353.2	456.0	589.1	734.5	887.0
115°	209.1	216.1	226.1	245.1	272.2	312.1	372.2	465.2	585.3	711.4	836.4
117.5°	235.3	241.5	252.5	270.4	298.3	336.4	391.6	475.0	584.3	700.9	811.6
120°	252.1	259.2	270.1	287.1	315.1	353.2	405.2	482.2	584.3	695.3	800.4
122.5°	268.1	275.2	285.3	303.9	331.1	369.2	418.0	489.5	583.5	689.0	790.7
125°	291.1	297.1	308.2	327.2	355.2	391.2	437.2	500.2	582.3	678.3	774.4
127.5°	308.9	316.2	328.7	348.5	376.8	411.6	453.8	508.9	580.1	664.1	754.3
130°	320.1	328.1	343.2	362.1	391.2	425.2	464.3	515.2	579.3	655.3	738.4
132.5°	329.8	340.2	354.4	375.0	402.4	436.4	474.7	520.8	578.5	647.3	721.5
135°	345.2	355.2	372.2	393.2	419.2	452.2	488.3	529.3	577.3	635.3	698.4
137.5°	359.6	370.6	386.8	408.6	433.4	464.3	497.8	534.3	577.0	624.9	677.3
140°	369.2	380.2	397.2	418.2	442.2	472.3	504.2	538.3	576.3	619.3	665.3
142.5°	380.4	390.5	406.8	427.0	450.2	479.4	509.0	541.5	576.3	614.5	654.1
145°	396.2	406.2	420.2	439.2	461.2	487.2	514.3	543.3	574.3	606.3	638.3
147.5°	412.0	420.8	435.2	451.0	470.8	495.2	518.8	544.2	570.7	598.9	625.3
150°	423.2	431.2	443.2	458.2	477.3	499.2	521.2	544.2	568.3	593.3	617.3
152.5°	432.8	440.8	452.0	465.5	482.8	502.5	522.9	542.7	564.3	586.9	608.5
155°	448.2	454.2	464.3	475.3	490.3	507.2	524.3	540.3	558.3	577.3	595.3
157.5°	461.4	467.0	474.8	484.4	496.3	510.7	524.3	537.7	552.1	567.5	581.1
160°	470.2	474.2	481.2	489.2	500.2	512.2	524.3	535.3	547.3	560.3	572.3
162.5°	477.4	480.6	486.8	494.0	502.7	513.8	524.3	532.9	542.4	553.9	563.4
165°	487.2	489.2	494.2	499.2	505.2	514.3	522.3	528.2	535.3	543.3	551.3
167.5°	495.2	496.3	500.1	502.8	507.5	514.0	519.9	523.5	528.1	533.6	539.5
170°	499.2	500.2	503.3	505.2	508.2	513.2	518.2	520.2	523.2	527.3	532.3
172.5°	503.3	503.4	505.7	506.9	509.0	512.5	516.7	517.0	518.4	521.7	525.8
175°	507.2	507.2	508.2	509.3	509.3	511.3	514.3	513.2	513.2	515.2	517.3
177.5°	509.3	508.4	509.3	509.3	509.3	510.1	511.6	510.1	510.1	510.8	511.6
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1789.8	1792.0	1793.6	1799.1	1799.7	1804.7	1799.7
5°	1937.9	1947.5	1962.6	1977.7	1979.1	1988.7	1971.5
7.5°	2103.9	2126.2	2140.1	2164.6	2174.2	2180.2	2170.3
10°	2218.4	2238.9	2275.4	2293.3	2311.2	2313.9	2305.7
12.5°	2328.9	2361.6	2390.3	2424.1	2423.4	2447.6	2438.7
15°	2476.1	2509.8	2549.7	2587.5	2601.3	2601.3	2612.3
17.5°	2581.2	2642.9	2684.2	2713.9	2746.2	2751.9	2748.1
20°	2652.1	2718.8	2762.8	2801.3	2823.3	2829.5	2829.5
22.5°	2704.9	2761.7	2804.6	2839.2	2857.4	2864.6	2862.5
25°	2741.5	2790.2	2816.4	2826.7	2831.5	2830.2	2817.1
27.5°	2691.4	2689.2	2672.7	2641.1	2617.4	2602.9	2586.4
30°	2595.7	2560.0	2518.8	2473.4	2414.9	2370.2	2356.5
32.5°	2453.3	2373.0	2303.2	2227.6	2164.7	2120.0	2101.4
35°	2177.8	2050.6	1946.8	1856.1	1790.1	1748.9	1735.1
37.5°	1850.8	1727.8	1599.2	1511.2	1456.6	1414.9	1399.3
40°	1643.0	1508.9	1396.9	1314.4	1258.0	1217.5	1216.8
42.5°	1453.2	1325.3	1219.8	1160.4	1099.6	1072.8	1072.6
45°	1189.9	1087.5	998.2	951.4	915.0	892.9	886.7
47.5°	985.2	900.5	841.0	803.7	774.0	760.0	751.0
50°	870.3	796.1	748.6	716.3	699.8	681.9	680.5
52.5°	774.6	714.6	677.7	651.4	630.5	619.7	620.1
55°	651.0	603.6	577.5	557.5	541.0	532.8	529.3
57.5°	548.5	512.8	493.9	475.5	468.6	462.1	460.3
60°	484.7	460.5	442.7	428.3	417.9	415.9	415.2
62.5°	431.9	406.7	394.3	383.1	375.7	372.5	371.2
65°	356.1	337.5	326.5	317.6	314.9	310.0	309.4
67.5°	287.1	276.0	268.6	262.4	258.7	258.5	258.5
70°	244.7	238.5	232.4	228.9	226.9	225.5	225.5
72.5°	208.4	203.9	198.8	197.0	196.6	195.2	194.7
75°	158.8	153.9	154.6	151.3	148.5	145.1	143.0
77.5°	112.6	109.2	108.5	108.1	105.7	105.3	106.4
80°	87.3	83.9	83.2	83.9	83.2	81.1	81.1
82.5°	66.4	63.5	62.9	62.4	61.7	62.4	61.3
85°	35.7	34.4	34.4	34.4	35.7	35.0	34.4
87.5°	16.4	16.1	16.6	16.3	16.5	15.8	16.3
90°	19.0	20.0	20.0	21.0	22.0	21.0	21.0
92.5°	147.8	117.7	97.6	85.8	80.4	77.1	77.1
95°	586.3	452.2	355.2	306.2	275.2	257.1	244.1
97.5°	1037.7	939.9	835.4	763.5	703.4	673.3	652.6
100°	1226.6	1177.6	1103.5	1016.5	955.5	925.5	917.5
102.5°	1300.2	1314.4	1283.6	1230.2	1185.9	1154.3	1148.0
105°	1293.7	1392.7	1433.7	1435.7	1427.7	1413.7	1407.6
107.5°	1190.6	1330.1	1419.3	1468.7	1491.5	1501.5	1504.2
110°	1110.5	1255.6	1365.6	1436.7	1478.7	1496.8	1505.7



TEST NUMBER: P333011-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1040.1	1177.2	1287.2	1367.9	1418.7	1443.9	1458.5
115°	959.5	1076.5	1172.6	1251.6	1311.6	1343.7	1351.7
117.5°	913.4	1005.5	1086.9	1154.3	1204.8	1237.2	1243.4
120°	893.5	973.4	1044.5	1101.6	1145.6	1171.6	1182.6
122.5°	880.6	953.5	1015.7	1063.9	1101.6	1123.5	1134.5
125°	860.4	929.4	984.5	1024.5	1053.5	1072.5	1078.5
127.5°	836.6	905.4	957.7	997.9	1023.7	1039.7	1045.7
130°	817.4	885.5	938.5	979.5	1004.4	1020.5	1026.5
132.5°	795.8	862.2	915.2	955.5	983.7	998.8	1004.9
135°	763.4	824.4	874.4	914.5	942.5	958.5	964.5
137.5°	732.4	783.8	829.0	866.4	894.1	907.2	914.5
140°	712.3	757.3	799.4	834.4	856.4	870.4	878.4
142.5°	695.5	734.2	770.6	801.6	822.0	834.4	840.0
145°	672.4	702.3	730.4	755.4	772.4	782.4	787.4
147.5°	652.3	676.3	698.4	716.8	731.3	739.0	740.7
150°	640.3	660.3	678.3	694.3	707.3	713.3	714.4
152.5°	628.3	646.7	661.5	675.1	685.7	689.3	690.3
155°	611.3	626.3	638.3	648.3	656.3	659.4	659.4
157.5°	594.5	607.1	616.7	624.3	630.3	632.1	632.1
160°	583.2	594.3	602.3	608.3	614.3	615.3	615.3
162.5°	572.9	581.5	588.7	593.1	599.1	600.1	599.3
165°	557.2	564.3	569.3	573.3	577.3	576.3	575.3
167.5°	544.1	549.7	552.7	554.7	557.2	557.1	556.3
170°	535.3	539.2	542.3	544.2	545.3	544.2	544.2
172.5°	528.1	530.5	532.6	533.8	534.9	533.8	532.3
175°	518.2	520.2	520.2	520.2	522.3	520.2	518.2
177.5°	512.5	512.5	513.2	512.5	513.2	511.6	510.1
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3

(END OF REPORT)