

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: P332663

Luminaire Tested: **SA4XXDIP-C1020D1205U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332663
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: SA4XXDIP-C1020D1205U835-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8909.2 lumens
Efficiency: N/A
Efficacy: 136.2 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: General Diffuse

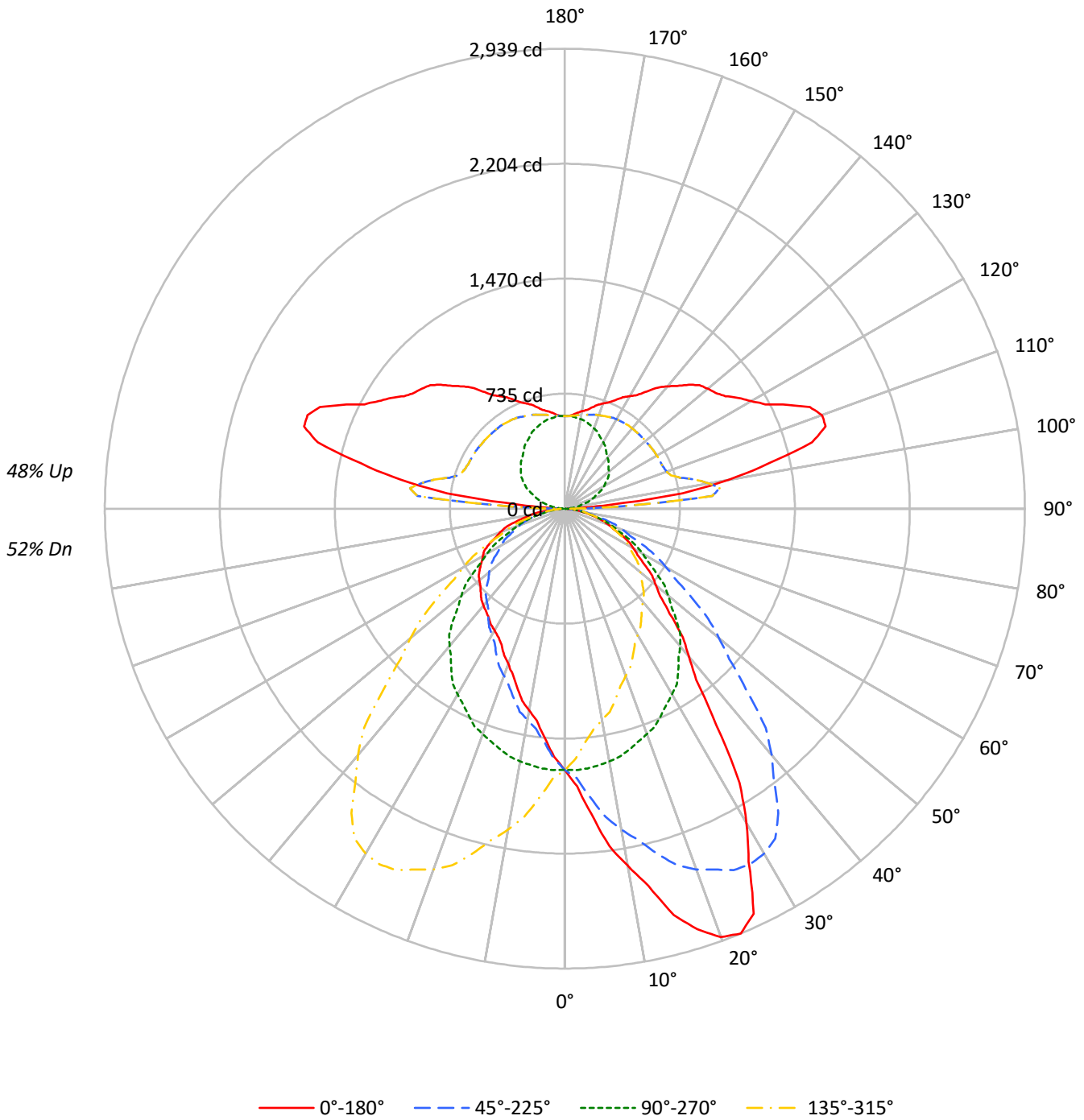
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	82	76	71	83	77	71	67	65	61	58	55	52	50	45	44	42	37
3	82	73	65	60	76	68	61	56	58	53	49	49	45	42	40	38	36	32
4	75	64	57	51	69	60	53	48	52	46	42	44	40	36	36	33	31	27
5	69	58	50	44	64	54	47	41	46	41	36	39	35	32	33	30	27	24
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21	19
8	55	42	35	30	51	40	33	28	35	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15
10	48	36	28	24	44	33	27	23	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13472	13472	13472	13472
5°	15866	13507	11921	13507
10°	18996	13448	10733	13448
15°	22476	13312	9857	13312
20°	25027	13173	9075	13173
25°	25432	12968	8535	12968
30°	21640	12773	8364	12773
35°	16638	12454	8366	12454
40°	12968	12079	8524	12079
45°	10813	11515	8667	11515
50°	9516	10827	8960	10827
55°	8718	10003	9322	10003
60°	8170	9265	9755	9265
65°	7607	8437	10115	8437
70°	6951	7619	10346	7619
75°	6210	6706	10221	6706
80°	5207	5495	9898	5495
85°	3844	3974	9476	3974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	1.8
10°-20°	501.1	5.6
20°-30°	794.6	8.9
30°-40°	884.3	9.9
40°-50°	805.0	9.0
50°-60°	657.8	7.4
60°-70°	469.6	5.3
70°-80°	258.6	2.9
80°-90°	73.9	0.8
90°-100°	427.2	4.8
100°-110°	889.1	10.0
110°-120°	796.4	8.9
120°-130°	669.9	7.5
130°-140°	558.5	6.3
140°-150°	426.7	4.8
150°-160°	299.9	3.4
160°-170°	176.4	2.0
170°-180°	57.4	0.6
0°-30°	1458.3	16.4
0°-40°	2342.7	26.3
0°-60°	3805.5	42.7
0°-90°	4607.6	51.7
90°-120°	2112.7	23.7
90°-150°	3767.8	42.3
90°-180°	4302.0	48.3
0°-180°	8909.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1669	1669	1669	1669	1669	
5°	1958	1667	1471	1667	1958	199
15°	2689	1593	1179	1593	2689	760
25°	2855	1456	958	1456	2855	1259
35°	1688	1264	849	1264	1688	1072
45°	947	1009	759	1009	947	746
55°	619	711	662	711	619	560
65°	398	442	530	442	398	394
75°	199	215	328	215	199	212
85°	42	43	102	43	42	51
90°	24	1	24	1	24	21
95°	284	38	284	38	284	440
105°	1635	136	1635	136	1635	1616
115°	1570	239	1570	239	1570	1558
125°	1253	334	1253	334	1253	1138
135°	1120	396	1120	396	1120	865
145°	914	457	914	457	914	580
155°	766	519	766	519	766	357
165°	668	566	668	566	668	191
175°	602	590	602	590	602	59
180°	592	592	592	592	592	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1776.1	1775.6	1770.0	1768.9	1765.0	1760.1	1759.0	1750.1	1732.4	1724.1	1721.9
5°	1957.8	1971.6	1953.6	1950.2	1948.1	1925.3	1913.5	1899.7	1867.9	1849.2	1834.7
7.5°	2174.6	2176.2	2168.4	2162.0	2144.4	2124.5	2094.7	2062.9	2025.0	1985.6	1955.8
10°	2317.3	2322.8	2313.8	2312.4	2277.2	2255.0	2210.8	2173.5	2130.6	2082.9	2039.4
12.5°	2467.7	2459.9	2455.4	2425.8	2419.3	2378.9	2327.5	2289.1	2223.0	2168.1	2110.1
15°	2689.2	2674.0	2664.3	2623.5	2603.5	2547.5	2492.8	2450.7	2364.3	2282.0	2219.8
17.5°	2819.1	2834.4	2812.0	2795.2	2743.4	2704.1	2648.3	2559.8	2492.2	2390.0	2311.5
20°	2913.2	2914.5	2902.1	2884.8	2844.0	2794.3	2733.4	2636.6	2555.8	2454.1	2346.3
22.5°	2938.6	2938.9	2933.6	2917.4	2886.6	2846.2	2784.9	2704.1	2606.1	2495.6	2387.8
25°	2855.1	2852.3	2858.6	2876.5	2864.8	2852.3	2817.1	2756.9	2665.7	2548.8	2432.7
27.5°	2544.8	2563.9	2599.0	2643.3	2685.9	2718.4	2727.5	2715.2	2658.6	2562.5	2440.9
30°	2321.4	2344.9	2371.2	2415.4	2501.1	2550.2	2604.2	2644.9	2622.1	2545.4	2432.0
32.5°	2075.9	2081.7	2120.7	2171.0	2249.5	2343.9	2429.4	2512.2	2539.7	2499.5	2404.9
35°	1688.2	1697.8	1740.0	1789.8	1885.9	2001.3	2129.9	2244.7	2339.4	2377.4	2329.0
37.5°	1377.6	1405.4	1435.2	1488.7	1573.3	1677.2	1810.8	1959.3	2100.5	2195.0	2211.1
40°	1230.5	1247.8	1269.2	1310.0	1381.9	1484.2	1599.0	1769.1	1919.1	2054.6	2098.8
42.5°	1114.4	1124.5	1137.6	1174.5	1229.3	1331.0	1435.8	1585.4	1736.0	1898.0	1972.2
45°	947.1	957.5	979.6	1001.0	1042.5	1113.0	1210.5	1333.5	1484.9	1641.2	1778.0
47.5°	826.2	832.9	846.0	869.0	904.2	950.7	1030.0	1132.8	1273.1	1424.8	1570.6
50°	757.7	763.2	773.6	794.3	821.3	862.7	927.7	1023.8	1133.7	1286.5	1429.6
52.5°	703.5	705.7	713.3	727.4	748.8	783.7	837.0	916.5	1018.7	1154.9	1297.4
55°	619.4	622.2	629.1	639.5	658.1	680.2	721.0	780.5	869.7	987.9	1111.6
57.5°	550.3	552.2	558.0	562.0	577.4	595.4	626.7	669.2	736.8	837.0	947.5
60°	506.0	504.7	511.6	515.0	525.4	540.6	564.8	605.6	664.3	745.2	846.8
62.5°	462.9	461.0	466.8	471.3	477.3	490.3	510.0	542.0	589.7	662.8	750.6
65°	398.2	395.4	398.9	404.4	409.9	416.9	431.4	459.7	497.7	550.3	617.3
67.5°	333.2	336.1	336.7	339.4	342.6	352.0	362.0	382.0	408.8	450.9	507.7
70°	294.5	295.2	298.0	298.0	300.0	308.3	316.6	328.4	354.6	393.4	439.7
72.5°	255.8	258.7	257.6	259.8	261.3	266.8	272.9	284.1	306.5	335.3	374.4
75°	199.1	201.2	201.2	201.9	203.9	206.0	210.8	219.1	235.0	256.5	283.4
77.5°	145.2	145.5	146.4	148.9	148.9	152.2	155.8	162.5	170.3	185.0	201.4
80°	112.0	113.4	112.7	114.1	114.1	116.8	118.2	126.5	130.0	139.6	152.8
82.5°	82.1	83.5	83.4	85.3	86.4	87.0	88.9	92.2	95.7	104.2	109.6
85°	41.5	42.9	41.5	42.9	44.9	45.6	47.7	48.4	51.2	53.2	58.1
87.5°	17.0	18.7	18.9	19.3	20.1	20.7	21.0	20.2	22.2	23.0	24.7
90°	24.4	24.4	25.6	24.4	23.2	23.2	22.1	20.9	19.8	20.9	18.6
92.5°	89.5	89.5	93.4	99.7	113.4	136.7	171.7	228.2	307.0	368.6	322.6
95°	283.5	298.6	319.6	355.6	412.5	525.2	680.9	861.0	973.8	947.0	714.6
97.5°	757.9	782.0	816.9	886.8	970.3	1091.6	1205.2	1272.2	1223.4	997.5	668.8
100°	1065.6	1074.9	1109.7	1180.6	1281.7	1367.7	1424.6	1401.4	1231.7	934.2	606.6
102.5°	1333.3	1340.7	1377.4	1428.8	1490.8	1526.6	1510.1	1394.9	1162.0	855.2	564.7
105°	1634.9	1641.9	1658.2	1667.5	1665.1	1617.5	1502.5	1301.4	1035.3	762.3	528.7
107.5°	1747.0	1743.9	1732.3	1705.8	1648.4	1544.8	1382.8	1168.7	933.1	710.2	522.2
110°	1748.8	1738.4	1717.4	1668.6	1586.1	1458.3	1289.8	1088.8	882.0	692.6	524.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1694.0	1677.0	1647.7	1588.7	1495.0	1367.2	1208.0	1030.2	853.1	684.2	529.6
115°	1569.9	1560.6	1523.4	1453.7	1361.9	1250.3	1114.4	971.4	826.2	679.8	540.3
117.5°	1444.1	1436.9	1399.3	1340.7	1262.4	1167.8	1060.9	942.6	814.1	678.6	551.7
120°	1373.5	1360.7	1330.5	1279.4	1213.1	1130.6	1037.7	929.6	807.6	678.6	560.1
122.5°	1317.7	1304.9	1279.4	1235.7	1179.7	1107.4	1022.8	918.4	800.2	677.7	568.5
125°	1252.6	1245.7	1223.6	1189.9	1143.4	1079.5	999.3	899.4	787.8	676.3	581.0
127.5°	1214.5	1207.6	1189.0	1159.0	1112.3	1051.6	971.7	876.1	771.3	673.7	591.0
130°	1192.2	1185.2	1166.6	1137.6	1090.0	1028.4	949.4	857.6	761.1	672.8	598.4
132.5°	1167.1	1160.1	1142.5	1109.7	1063.0	1001.4	924.3	838.0	751.8	671.9	604.9
135°	1120.2	1113.2	1094.6	1062.1	1015.6	957.5	886.6	811.1	737.9	670.5	614.7
137.5°	1062.1	1053.7	1038.4	1006.3	962.8	910.3	850.6	786.7	725.8	670.2	620.5
140°	1020.2	1010.9	994.7	969.1	928.4	879.6	827.3	772.7	719.3	669.3	625.2
142.5°	975.6	969.1	954.7	931.0	895.0	852.7	807.8	759.7	713.7	669.3	628.9
145°	914.5	908.7	897.1	877.3	848.3	815.7	780.9	741.4	704.2	667.0	631.0
147.5°	860.3	858.3	849.4	832.5	811.1	785.5	757.6	726.3	695.6	662.8	632.1
150°	829.7	828.5	821.5	806.4	787.8	766.9	743.7	717.0	689.1	660.0	632.1
152.5°	801.8	800.6	796.4	784.1	768.3	751.1	729.7	706.7	681.6	655.4	630.3
155°	765.8	765.8	762.3	753.0	741.4	727.4	710.0	691.4	670.5	648.4	627.5
157.5°	734.2	734.2	732.1	725.1	716.3	705.1	690.5	674.9	659.1	641.2	624.5
160°	714.6	714.6	713.5	706.5	699.5	690.2	677.4	664.7	650.7	635.6	621.7
162.5°	696.0	697.0	695.8	688.8	683.7	675.4	665.4	654.4	643.3	630.0	618.9
165°	668.2	669.3	670.5	665.8	661.2	655.4	647.2	640.3	631.0	621.7	613.5
167.5°	646.1	647.0	647.2	644.2	641.9	638.4	631.9	626.6	619.8	613.3	608.0
170°	632.1	632.1	633.3	632.1	629.8	626.3	621.7	618.2	612.4	607.7	604.2
172.5°	618.2	620.0	621.2	620.0	618.6	616.1	613.3	610.7	605.9	602.1	600.5
175°	601.9	604.2	606.6	604.2	604.2	604.2	601.9	600.8	598.4	596.1	596.1
177.5°	592.4	594.2	596.1	595.2	596.1	595.2	595.2	594.2	593.3	592.4	592.4
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1722.5	1714.7	1709.2	1704.8	1692.6	1685.4	1679.9	1672.1	1663.3	1653.9	1642.3
5°	1820.2	1796.7	1779.4	1753.2	1728.3	1707.5	1686.1	1666.7	1643.2	1617.7	1599.0
7.5°	1922.9	1888.0	1843.2	1804.3	1760.6	1722.6	1688.6	1653.7	1617.5	1582.4	1550.2
10°	1988.2	1943.3	1893.5	1834.7	1779.4	1730.3	1684.7	1640.5	1597.6	1554.7	1518.1
12.5°	2058.4	2002.4	1928.9	1860.2	1798.2	1732.6	1677.5	1623.3	1571.6	1526.5	1483.8
15°	2152.7	2071.8	1986.8	1894.9	1813.3	1736.6	1661.2	1592.8	1534.7	1475.2	1433.8
17.5°	2210.7	2110.6	2013.4	1917.3	1818.5	1721.8	1640.5	1561.5	1488.8	1429.8	1377.5
20°	2248.8	2149.3	2028.3	1932.2	1814.7	1715.1	1621.1	1533.3	1457.3	1394.4	1340.4
22.5°	2282.0	2167.0	2046.0	1919.5	1802.5	1696.9	1594.0	1505.7	1428.0	1361.7	1310.0
25°	2300.0	2167.9	2036.6	1910.8	1778.0	1652.9	1559.6	1455.9	1372.9	1303.1	1247.8
27.5°	2301.9	2160.7	2012.1	1872.3	1735.3	1618.8	1501.0	1408.3	1322.2	1248.4	1195.3
30°	2295.8	2148.6	1988.9	1837.5	1699.9	1573.4	1471.1	1370.2	1282.4	1209.1	1153.8
32.5°	2276.5	2123.1	1959.0	1798.8	1656.2	1532.5	1426.9	1330.9	1245.3	1173.1	1115.1
35°	2220.5	2069.1	1894.2	1727.6	1581.7	1456.6	1361.2	1263.7	1178.0	1109.5	1053.6
37.5°	2133.0	1996.1	1818.3	1645.9	1502.6	1376.9	1282.4	1194.3	1117.0	1047.5	990.1
40°	2056.6	1936.3	1758.0	1590.0	1435.2	1315.6	1227.1	1146.2	1069.5	1003.8	949.2
42.5°	1968.7	1863.9	1699.4	1521.4	1372.1	1252.0	1165.7	1093.1	1020.8	960.1	905.5
45°	1811.9	1742.8	1587.9	1423.4	1267.9	1154.5	1072.2	1008.6	947.8	888.3	842.7
47.5°	1631.6	1597.3	1467.0	1310.7	1163.1	1051.3	980.0	921.2	867.9	817.5	777.3
50°	1510.5	1493.9	1381.2	1230.5	1089.5	984.4	912.5	862.1	816.4	772.2	734.2
52.5°	1391.0	1390.5	1288.9	1150.9	1020.4	919.2	847.8	800.7	761.1	725.2	691.0
55°	1208.4	1227.8	1148.3	1025.2	908.4	817.1	752.8	710.7	683.0	653.3	627.7
57.5°	1040.7	1072.8	1007.2	898.8	801.4	717.3	661.3	629.6	600.2	582.2	563.6
60°	931.2	961.6	910.5	819.2	727.3	655.4	602.1	573.8	548.2	535.8	522.6
62.5°	833.9	861.0	823.1	738.5	658.7	589.5	544.6	517.4	500.1	486.5	477.8
65°	694.8	717.6	685.1	623.6	555.1	499.8	463.2	441.7	425.2	419.6	409.9
67.5°	561.6	582.4	564.8	512.5	457.6	415.8	387.1	366.5	356.7	351.9	345.0
70°	482.5	503.3	484.6	439.0	396.8	361.6	334.6	322.8	312.5	310.4	300.7
72.5°	415.6	429.7	411.1	375.4	339.3	309.6	288.7	276.4	271.0	267.3	262.0
75°	311.8	324.2	311.8	284.1	258.5	237.8	219.8	215.0	208.8	206.7	203.2
77.5°	220.7	231.4	221.9	204.6	185.5	169.5	159.8	153.6	152.2	148.6	150.3
80°	168.7	175.6	166.6	154.9	139.6	128.6	121.7	118.2	114.1	112.7	115.4
82.5°	121.1	124.2	119.6	111.7	100.4	93.2	88.5	84.5	83.6	83.9	83.9
85°	62.9	62.2	61.5	54.6	51.2	46.3	43.6	42.9	42.2	43.6	44.9
87.5°	24.3	24.8	22.9	20.7	18.8	16.9	15.6	14.6	15.6	16.9	17.7
90°	16.3	16.3	9.3	9.3	8.1	7.0	3.5	1.2	3.5	7.0	8.1
92.5°	234.7	144.6	85.5	61.4	44.4	30.2	19.3	13.2	19.3	30.2	44.4
95°	436.9	246.3	145.3	96.4	68.6	53.5	41.8	38.3	41.8	53.5	68.6
97.5°	392.8	235.4	157.6	116.7	92.7	78.8	68.8	68.8	68.8	78.8	92.7
100°	369.5	238.2	169.7	132.5	110.4	96.4	88.3	88.3	88.3	96.4	110.4
102.5°	363.0	247.5	185.5	150.1	129.0	116.0	108.8	106.9	108.8	116.0	129.0
105°	366.0	269.6	213.8	180.1	159.2	145.3	139.4	136.0	139.4	145.3	159.2
107.5°	383.2	295.4	244.3	211.0	191.0	176.2	170.3	168.0	170.3	176.2	191.0
110°	396.2	314.9	263.8	232.4	211.5	197.5	191.7	189.4	191.7	197.5	211.5



TEST NUMBER: P332663

CATALOG NUMBER: SA4XXDIP-C1020D1205U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	410.2	333.5	284.2	252.9	231.9	218.9	212.2	209.9	212.2	218.9	231.9
115°	432.3	362.5	316.1	284.7	262.6	251.0	242.9	239.4	242.9	251.0	262.6
117.5°	454.8	390.7	346.5	314.0	293.3	280.5	273.3	270.0	273.3	280.5	293.3
120°	470.6	410.2	366.0	333.5	313.7	301.0	292.8	290.5	292.8	301.0	313.7
122.5°	485.5	428.8	384.6	353.0	331.4	319.6	311.4	309.1	311.4	319.6	331.4
125°	507.8	454.3	412.5	380.0	357.9	345.1	338.1	333.5	338.1	345.1	357.9
127.5°	527.1	478.0	437.6	404.8	381.8	367.2	358.8	355.1	358.8	367.2	381.8
130°	539.2	493.9	454.3	420.6	398.6	381.1	371.8	367.2	371.8	381.1	398.6
132.5°	551.3	506.9	467.4	435.5	411.6	395.1	383.0	379.3	383.0	395.1	411.6
135°	567.1	525.2	486.9	456.7	432.3	412.5	400.9	396.2	400.9	412.5	432.3
137.5°	578.2	539.2	503.4	474.6	449.2	430.4	417.6	413.2	417.6	430.4	449.2
140°	585.6	548.5	513.6	485.7	461.3	441.6	428.8	425.3	428.8	441.6	461.3
142.5°	591.2	556.8	522.9	495.9	472.5	453.6	441.8	438.3	441.8	453.6	472.5
145°	597.3	565.9	535.7	510.1	488.0	471.8	460.2	456.7	460.2	471.8	488.0
147.5°	602.6	575.2	546.8	523.8	505.5	488.7	478.5	477.3	478.5	488.7	505.5
150°	605.4	579.8	554.3	532.2	514.8	500.8	491.5	490.4	491.5	500.8	514.8
152.5°	607.3	583.6	560.8	540.6	525.0	512.0	502.7	502.4	502.7	512.0	525.0
155°	608.9	589.1	569.4	552.0	539.2	527.5	520.6	519.4	520.6	527.5	539.2
157.5°	608.9	593.1	576.4	562.6	551.5	542.4	535.9	535.9	535.9	542.4	551.5
160°	608.9	594.9	581.0	568.2	558.9	550.8	546.1	546.1	546.1	550.8	558.9
162.5°	608.9	596.8	583.8	573.8	565.4	558.2	554.5	554.5	554.5	558.2	565.4
165°	606.6	597.3	586.8	579.8	574.0	568.2	565.9	565.9	565.9	568.2	574.0
167.5°	603.8	597.0	589.4	584.0	580.8	576.4	575.2	576.4	575.2	576.4	580.8
170°	601.9	596.1	590.3	586.8	584.5	581.0	579.8	581.0	579.8	581.0	584.5
172.5°	600.1	595.2	591.2	588.7	587.3	584.7	584.5	585.6	584.5	584.7	587.3
175°	597.3	593.8	591.5	591.5	590.3	589.1	589.1	590.3	589.1	589.1	590.3
177.5°	594.2	592.4	591.5	591.5	591.5	590.5	591.5	592.4	591.5	590.5	591.5
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5



TEST NUMBER: P332663

CATALOG NUMBER: SA4XXDIP-C1020D1205U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1636.7	1631.8	1624.6	1614.6	1606.3	1597.5	1595.3	1591.9	1598.6	1593.0	1591.4
5°	1583.1	1568.6	1549.9	1528.5	1516.0	1498.1	1494.6	1487.7	1480.8	1480.1	1473.2
7.5°	1526.3	1505.0	1480.5	1458.7	1438.5	1418.8	1406.0	1403.2	1393.0	1387.0	1380.1
10°	1489.8	1463.5	1435.2	1414.4	1390.9	1370.2	1355.7	1347.4	1340.4	1332.8	1325.9
12.5°	1446.6	1418.7	1395.3	1372.9	1345.0	1329.2	1305.3	1290.9	1289.6	1289.7	1271.7
15°	1396.4	1368.8	1332.8	1301.0	1285.8	1255.4	1242.3	1225.7	1215.3	1204.9	1196.7
17.5°	1339.1	1304.6	1276.6	1240.1	1211.0	1186.8	1169.6	1159.6	1144.0	1129.3	1118.7
20°	1303.1	1266.5	1236.7	1198.0	1166.2	1136.5	1122.0	1108.2	1096.4	1084.0	1072.2
22.5°	1266.6	1228.3	1191.9	1154.3	1124.8	1093.4	1079.4	1060.6	1049.4	1042.5	1030.7
25°	1209.1	1167.6	1126.1	1090.2	1059.8	1032.1	1013.5	998.9	986.5	981.0	973.4
27.5°	1146.6	1105.4	1065.3	1024.5	990.0	969.9	955.0	944.0	936.9	929.5	926.1
30°	1106.8	1063.9	1021.1	983.0	951.2	931.2	917.4	909.8	904.2	900.8	897.3
32.5°	1066.4	1024.1	979.0	944.3	915.8	898.0	887.5	879.9	877.1	875.9	874.6
35°	1001.7	958.8	917.4	886.3	859.3	852.4	843.4	839.2	837.9	842.7	844.8
37.5°	939.1	899.3	861.1	830.9	813.3	803.2	800.1	800.3	805.2	809.5	814.5
40°	898.7	860.0	824.0	797.8	781.2	775.0	773.6	777.0	782.6	787.4	792.9
42.5°	859.4	821.3	788.6	764.0	752.4	746.7	747.6	751.0	758.8	764.7	773.0
45°	798.5	766.7	734.9	714.8	705.1	706.5	706.5	712.7	720.3	729.3	738.3
47.5°	741.1	709.0	682.9	666.0	661.0	659.8	663.7	671.8	682.7	693.8	706.4
50°	702.4	671.9	649.1	633.9	628.4	630.5	636.0	643.6	656.7	670.6	683.7
52.5°	663.1	635.4	614.3	600.2	596.3	600.1	605.6	617.6	629.1	644.0	659.9
55°	602.1	578.6	562.0	551.7	550.3	552.4	558.6	571.7	588.3	607.0	622.2
57.5°	541.4	521.8	506.6	499.4	500.1	502.0	512.3	527.9	545.6	565.5	585.1
60°	500.5	482.5	470.1	464.6	465.2	469.4	481.8	496.4	518.5	537.8	558.6
62.5°	461.8	446.0	434.1	429.2	428.2	437.3	449.2	464.3	486.4	508.0	530.4
65°	399.6	387.1	377.5	374.7	376.8	383.7	398.9	418.9	437.6	460.4	483.9
67.5°	338.7	328.5	321.9	323.1	325.6	335.8	348.6	365.8	387.0	410.6	433.9
70°	300.0	290.3	284.8	285.5	289.7	302.1	313.2	330.4	353.3	377.5	396.8
72.5°	260.2	253.8	248.9	251.8	255.9	264.5	278.3	295.6	315.7	338.2	358.6
75°	199.8	199.8	197.0	199.1	205.3	213.6	224.0	242.0	262.0	280.0	296.6
77.5°	148.2	146.7	148.5	151.0	154.6	164.4	176.3	189.1	204.2	222.2	235.9
80°	113.4	114.1	117.5	121.7	123.1	130.7	143.1	154.9	166.6	181.8	194.9
82.5°	85.2	85.9	87.7	92.9	94.3	102.5	110.5	122.2	132.9	143.1	154.0
85°	46.3	46.3	49.8	51.8	55.3	60.8	65.7	72.6	82.3	89.2	99.5
87.5°	19.6	19.6	23.2	24.3	26.4	29.6	30.5	36.8	39.3	42.3	47.2
90°	9.3	9.3	16.3	16.3	18.6	20.9	19.8	20.9	22.1	23.2	23.2
92.5°	61.4	85.5	144.6	234.7	322.6	368.6	307.0	228.2	171.7	136.7	113.4
95°	96.4	145.3	246.3	436.9	714.6	947.0	973.8	861.0	680.9	525.2	412.5
97.5°	116.7	157.6	235.4	392.8	668.8	997.5	1223.4	1272.2	1205.2	1091.6	970.3
100°	132.5	169.7	238.2	369.5	606.6	934.2	1231.7	1401.4	1424.6	1367.7	1281.7
102.5°	150.1	185.5	247.5	363.0	564.7	855.2	1162.0	1394.9	1510.1	1526.6	1490.8
105°	180.1	213.8	269.6	366.0	528.7	762.3	1035.3	1301.4	1502.5	1617.5	1665.1
107.5°	211.0	244.3	295.4	383.2	522.2	710.2	933.1	1168.7	1382.8	1544.8	1648.4
110°	232.4	263.8	314.9	396.2	524.1	692.6	882.0	1088.8	1289.8	1458.3	1586.1



TEST NUMBER: P332663

CATALOG NUMBER: SA4XXDIP-C1020D1205U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	252.9	284.2	333.5	410.2	529.6	684.2	853.1	1030.2	1208.0	1367.2	1495.0
115°	284.7	316.1	362.5	432.3	540.3	679.8	826.2	971.4	1114.4	1250.3	1361.9
117.5°	314.0	346.5	390.7	454.8	551.7	678.6	814.1	942.6	1060.9	1167.8	1262.4
120°	333.5	366.0	410.2	470.6	560.1	678.6	807.6	929.6	1037.7	1130.6	1213.1
122.5°	353.0	384.6	428.8	485.5	568.5	677.7	800.2	918.4	1022.8	1107.4	1179.7
125°	380.0	412.5	454.3	507.8	581.0	676.3	787.8	899.4	999.3	1079.5	1143.4
127.5°	404.8	437.6	478.0	527.1	591.0	673.7	771.3	876.1	971.7	1051.6	1112.3
130°	420.6	454.3	493.9	539.2	598.4	672.8	761.1	857.6	949.4	1028.4	1090.0
132.5°	435.5	467.4	506.9	551.3	604.9	671.9	751.8	838.0	924.3	1001.4	1063.0
135°	456.7	486.9	525.2	567.1	614.7	670.5	737.9	811.1	886.6	957.5	1015.6
137.5°	474.6	503.4	539.2	578.2	620.5	670.2	725.8	786.7	850.6	910.3	962.8
140°	485.7	513.6	548.5	585.6	625.2	669.3	719.3	772.7	827.3	879.6	928.4
142.5°	495.9	522.9	556.8	591.2	628.9	669.3	713.7	759.7	807.8	852.7	895.0
145°	510.1	535.7	565.9	597.3	631.0	667.0	704.2	741.4	780.9	815.7	848.3
147.5°	523.8	546.8	575.2	602.6	632.1	662.8	695.6	726.3	757.6	785.5	811.1
150°	532.2	554.3	579.8	605.4	632.1	660.0	689.1	717.0	743.7	766.9	787.8
152.5°	540.6	560.8	583.6	607.3	630.3	655.4	681.6	706.7	729.7	751.1	768.3
155°	552.0	569.4	589.1	608.9	627.5	648.4	670.5	691.4	710.0	727.4	741.4
157.5°	562.6	576.4	593.1	608.9	624.5	641.2	659.1	674.9	690.5	705.1	716.3
160°	568.2	581.0	594.9	608.9	621.7	635.6	650.7	664.7	677.4	690.2	699.5
162.5°	573.8	583.8	596.8	608.9	618.9	630.0	643.3	654.4	665.4	675.4	683.7
165°	579.8	586.8	597.3	606.6	613.5	621.7	631.0	640.3	647.2	655.4	661.2
167.5°	584.0	589.4	597.0	603.8	608.0	613.3	619.8	626.6	631.9	638.4	641.9
170°	586.8	590.3	596.1	601.9	604.2	607.7	612.4	618.2	621.7	626.3	629.8
172.5°	588.7	591.2	595.2	600.1	600.5	602.1	605.9	610.7	613.3	616.1	618.6
175°	591.5	591.5	593.8	597.3	596.1	596.1	598.4	600.8	601.9	604.2	604.2
177.5°	591.5	591.5	592.4	594.2	592.4	592.4	593.3	594.2	595.2	595.2	596.1
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5



TEST NUMBER: P332663

CATALOG NUMBER: SA4XXDIP-C1020D1205U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1590.3	1589.2	1585.3	1584.8	1585.3	1589.2	1590.3	1591.4	1593.0	1598.6	1591.9
5°	1469.0	1465.6	1463.5	1471.1	1463.5	1465.6	1469.0	1473.2	1480.1	1480.8	1487.7
7.5°	1377.6	1374.9	1368.8	1366.9	1368.8	1374.9	1377.6	1380.1	1387.0	1393.0	1403.2
10°	1319.0	1316.2	1310.7	1309.3	1310.7	1316.2	1319.0	1325.9	1332.8	1340.4	1347.4
12.5°	1262.6	1257.1	1256.0	1257.3	1256.0	1257.1	1262.6	1271.7	1289.7	1289.6	1290.9
15°	1187.7	1184.9	1177.3	1179.4	1177.3	1184.9	1187.7	1196.7	1204.9	1215.3	1225.7
17.5°	1113.8	1110.5	1101.3	1109.4	1101.3	1110.5	1113.8	1118.7	1129.3	1144.0	1159.6
20°	1067.4	1061.8	1057.0	1056.3	1057.0	1061.8	1067.4	1072.2	1084.0	1096.4	1108.2
22.5°	1023.1	1018.2	1017.7	1013.2	1017.7	1018.2	1023.1	1030.7	1042.5	1049.4	1060.6
25°	967.8	963.0	961.6	958.2	961.6	963.0	967.8	973.4	981.0	986.5	998.9
27.5°	925.4	923.0	920.5	921.6	920.5	923.0	925.4	926.1	929.5	936.9	944.0
30°	899.4	898.7	897.3	897.3	897.3	898.7	899.4	897.3	900.8	904.2	909.8
32.5°	877.8	877.7	878.5	878.5	878.5	877.7	877.8	874.6	875.9	877.1	879.9
35°	847.5	849.6	851.0	848.9	851.0	849.6	847.5	844.8	842.7	837.9	839.2
37.5°	820.2	822.2	824.2	826.5	824.2	822.2	820.2	814.5	809.5	805.2	800.3
40°	799.1	804.0	805.4	808.8	805.4	804.0	799.1	792.9	787.4	782.6	777.0
42.5°	779.2	784.6	788.2	788.9	788.2	784.6	779.2	773.0	764.7	758.8	751.0
45°	748.7	754.2	759.1	759.1	759.1	754.2	748.7	738.3	729.3	720.3	712.7
47.5°	717.0	725.0	729.9	731.1	729.9	725.0	717.0	706.4	693.8	682.7	671.8
50°	695.5	705.1	710.0	713.4	710.0	705.1	695.5	683.7	670.6	656.7	643.6
52.5°	674.4	684.1	690.6	692.4	690.6	684.1	674.4	659.9	644.0	629.1	617.6
55°	638.1	651.9	659.5	662.3	659.5	651.9	638.1	622.2	607.0	588.3	571.7
57.5°	603.8	616.5	625.4	627.4	625.4	616.5	603.8	585.1	565.5	545.6	527.9
60°	577.2	591.1	602.1	604.2	602.1	591.1	577.2	558.6	537.8	518.5	496.4
62.5°	550.1	564.5	574.5	579.9	574.5	564.5	550.1	530.4	508.0	486.4	464.3
65°	503.3	517.8	527.5	529.5	527.5	517.8	503.3	483.9	460.4	437.6	418.9
67.5°	452.1	466.6	473.0	477.0	473.0	466.6	452.1	433.9	410.6	387.0	365.8
70°	416.2	427.9	434.8	438.3	434.8	427.9	416.2	396.8	377.5	353.3	330.4
72.5°	375.2	387.5	395.6	396.3	395.6	387.5	375.2	358.6	338.2	315.7	295.6
75°	312.5	323.5	327.7	327.7	327.7	323.5	312.5	296.6	280.0	262.0	242.0
77.5°	247.3	253.0	258.3	259.4	258.3	253.0	247.3	235.9	222.2	204.2	189.1
80°	205.3	208.8	212.9	212.9	212.9	208.8	205.3	194.9	181.8	166.6	154.9
82.5°	162.2	165.1	169.2	168.7	169.2	165.1	162.2	154.0	143.1	132.9	122.2
85°	98.2	104.4	103.7	102.3	103.7	104.4	98.2	99.5	89.2	82.3	72.6
87.5°	49.1	49.9	51.3	52.4	51.3	49.9	49.1	47.2	42.3	39.3	36.8
90°	24.4	25.6	24.4	24.4	24.4	25.6	24.4	23.2	23.2	22.1	20.9
92.5°	99.7	93.4	89.5	89.5	89.5	93.4	99.7	113.4	136.7	171.7	228.2
95°	355.6	319.6	298.6	283.5	298.6	319.6	355.6	412.5	525.2	680.9	861.0
97.5°	886.8	816.9	782.0	757.9	782.0	816.9	886.8	970.3	1091.6	1205.2	1272.2
100°	1180.6	1109.7	1074.9	1065.6	1074.9	1109.7	1180.6	1281.7	1367.7	1424.6	1401.4
102.5°	1428.8	1377.4	1340.7	1333.3	1340.7	1377.4	1428.8	1490.8	1526.6	1510.1	1394.9
105°	1667.5	1658.2	1641.9	1634.9	1641.9	1658.2	1667.5	1665.1	1617.5	1502.5	1301.4
107.5°	1705.8	1732.3	1743.9	1747.0	1743.9	1732.3	1705.8	1648.4	1544.8	1382.8	1168.7
110°	1668.6	1717.4	1738.4	1748.8	1738.4	1717.4	1668.6	1586.1	1458.3	1289.8	1088.8



TEST NUMBER: P332663

CATALOG NUMBER: SA4XXDIP-C1020D1205U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1588.7	1647.7	1677.0	1694.0	1677.0	1647.7	1588.7	1495.0	1367.2	1208.0	1030.2
115°	1453.7	1523.4	1560.6	1569.9	1560.6	1523.4	1453.7	1361.9	1250.3	1114.4	971.4
117.5°	1340.7	1399.3	1436.9	1444.1	1436.9	1399.3	1340.7	1262.4	1167.8	1060.9	942.6
120°	1279.4	1330.5	1360.7	1373.5	1360.7	1330.5	1279.4	1213.1	1130.6	1037.7	929.6
122.5°	1235.7	1279.4	1304.9	1317.7	1304.9	1279.4	1235.7	1179.7	1107.4	1022.8	918.4
125°	1189.9	1223.6	1245.7	1252.6	1245.7	1223.6	1189.9	1143.4	1079.5	999.3	899.4
127.5°	1159.0	1189.0	1207.6	1214.5	1207.6	1189.0	1159.0	1112.3	1051.6	971.7	876.1
130°	1137.6	1166.6	1185.2	1192.2	1185.2	1166.6	1137.6	1090.0	1028.4	949.4	857.6
132.5°	1109.7	1142.5	1160.1	1167.1	1160.1	1142.5	1109.7	1063.0	1001.4	924.3	838.0
135°	1062.1	1094.6	1113.2	1120.2	1113.2	1094.6	1062.1	1015.6	957.5	886.6	811.1
137.5°	1006.3	1038.4	1053.7	1062.1	1053.7	1038.4	1006.3	962.8	910.3	850.6	786.7
140°	969.1	994.7	1010.9	1020.2	1010.9	994.7	969.1	928.4	879.6	827.3	772.7
142.5°	931.0	954.7	969.1	975.6	969.1	954.7	931.0	895.0	852.7	807.8	759.7
145°	877.3	897.1	908.7	914.5	908.7	897.1	877.3	848.3	815.7	780.9	741.4
147.5°	832.5	849.4	858.3	860.3	858.3	849.4	832.5	811.1	785.5	757.6	726.3
150°	806.4	821.5	828.5	829.7	828.5	821.5	806.4	787.8	766.9	743.7	717.0
152.5°	784.1	796.4	800.6	801.8	800.6	796.4	784.1	768.3	751.1	729.7	706.7
155°	753.0	762.3	765.8	765.8	765.8	762.3	753.0	741.4	727.4	710.0	691.4
157.5°	725.1	732.1	734.2	734.2	734.2	732.1	725.1	716.3	705.1	690.5	674.9
160°	706.5	713.5	714.6	714.6	714.6	713.5	706.5	699.5	690.2	677.4	664.7
162.5°	688.8	695.8	697.0	696.0	697.0	695.8	688.8	683.7	675.4	665.4	654.4
165°	665.8	670.5	669.3	668.2	669.3	670.5	665.8	661.2	655.4	647.2	640.3
167.5°	644.2	647.2	647.0	646.1	647.0	647.2	644.2	641.9	638.4	631.9	626.6
170°	632.1	633.3	632.1	632.1	632.1	633.3	632.1	629.8	626.3	621.7	618.2
172.5°	620.0	621.2	620.0	618.2	620.0	621.2	620.0	618.6	616.1	613.3	610.7
175°	604.2	606.6	604.2	601.9	604.2	606.6	604.2	604.2	604.2	601.9	600.8
177.5°	595.2	596.1	594.2	592.4	594.2	596.1	595.2	596.1	595.2	595.2	594.2
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5



TEST NUMBER: P332663

CATALOG NUMBER: SA4XXDIP-C1020D1205U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1595.3	1597.5	1606.3	1614.6	1624.6	1631.8	1636.7	1642.3	1653.9	1663.3	1672.1
5°	1494.6	1498.1	1516.0	1528.5	1549.9	1568.6	1583.1	1599.0	1617.7	1643.2	1666.7
7.5°	1406.0	1418.8	1438.5	1458.7	1480.5	1505.0	1526.3	1550.2	1582.4	1617.5	1653.7
10°	1355.7	1370.2	1390.9	1414.4	1435.2	1463.5	1489.8	1518.1	1554.7	1597.6	1640.5
12.5°	1305.3	1329.2	1345.0	1372.9	1395.3	1418.7	1446.6	1483.8	1526.5	1571.6	1623.3
15°	1242.3	1255.4	1285.8	1301.0	1332.8	1368.8	1396.4	1433.8	1475.2	1534.7	1592.8
17.5°	1169.6	1186.8	1211.0	1240.1	1276.6	1304.6	1339.1	1377.5	1429.8	1488.8	1561.5
20°	1122.0	1136.5	1166.2	1198.0	1236.7	1266.5	1303.1	1340.4	1394.4	1457.3	1533.3
22.5°	1079.4	1093.4	1124.8	1154.3	1191.9	1228.3	1266.6	1310.0	1361.7	1428.0	1505.7
25°	1013.5	1032.1	1059.8	1090.2	1126.1	1167.6	1209.1	1247.8	1303.1	1372.9	1455.9
27.5°	955.0	969.9	990.0	1024.5	1065.3	1105.4	1146.6	1195.3	1248.4	1322.2	1408.3
30°	917.4	931.2	951.2	983.0	1021.1	1063.9	1106.8	1153.8	1209.1	1282.4	1370.2
32.5°	887.5	898.0	915.8	944.3	979.0	1024.1	1066.4	1115.1	1173.1	1245.3	1330.9
35°	843.4	852.4	859.3	886.3	917.4	958.8	1001.7	1053.6	1109.5	1178.0	1263.7
37.5°	800.1	803.2	813.3	830.9	861.1	899.3	939.1	990.1	1047.5	1117.0	1194.3
40°	773.6	775.0	781.2	797.8	824.0	860.0	898.7	949.2	1003.8	1069.5	1146.2
42.5°	747.6	746.7	752.4	764.0	788.6	821.3	859.4	905.5	960.1	1020.8	1093.1
45°	706.5	706.5	705.1	714.8	734.9	766.7	798.5	842.7	888.3	947.8	1008.6
47.5°	663.7	659.8	661.0	666.0	682.9	709.0	741.1	777.3	817.5	867.9	921.2
50°	636.0	630.5	628.4	633.9	649.1	671.9	702.4	734.2	772.2	816.4	862.1
52.5°	605.6	600.1	596.3	600.2	614.3	635.4	663.1	691.0	725.2	761.1	800.7
55°	558.6	552.4	550.3	551.7	562.0	578.6	602.1	627.7	653.3	683.0	710.7
57.5°	512.3	502.0	500.1	499.4	506.6	521.8	541.4	563.6	582.2	600.2	629.6
60°	481.8	469.4	465.2	464.6	470.1	482.5	500.5	522.6	535.8	548.2	573.8
62.5°	449.2	437.3	428.2	429.2	434.1	446.0	461.8	477.8	486.5	500.1	517.4
65°	398.9	383.7	376.8	374.7	377.5	387.1	399.6	409.9	419.6	425.2	441.7
67.5°	348.6	335.8	325.6	323.1	321.9	328.5	338.7	345.0	351.9	356.7	366.5
70°	313.2	302.1	289.7	285.5	284.8	290.3	300.0	300.7	310.4	312.5	322.8
72.5°	278.3	264.5	255.9	251.8	248.9	253.8	260.2	262.0	267.3	271.0	276.4
75°	224.0	213.6	205.3	199.1	197.0	199.8	199.8	203.2	206.7	208.8	215.0
77.5°	176.3	164.4	154.6	151.0	148.5	146.7	148.2	150.3	148.6	152.2	153.6
80°	143.1	130.7	123.1	121.7	117.5	114.1	113.4	115.4	112.7	114.1	118.2
82.5°	110.5	102.5	94.3	92.9	87.7	85.9	85.2	83.9	83.9	83.6	84.5
85°	65.7	60.8	55.3	51.8	49.8	46.3	46.3	44.9	43.6	42.2	42.9
87.5°	30.5	29.6	26.4	24.3	23.2	19.6	19.6	17.7	16.9	15.6	14.6
90°	19.8	20.9	18.6	16.3	16.3	9.3	9.3	8.1	7.0	3.5	1.2
92.5°	307.0	368.6	322.6	234.7	144.6	85.5	61.4	44.4	30.2	19.3	13.2
95°	973.8	947.0	714.6	436.9	246.3	145.3	96.4	68.6	53.5	41.8	38.3
97.5°	1223.4	997.5	668.8	392.8	235.4	157.6	116.7	92.7	78.8	68.8	68.8
100°	1231.7	934.2	606.6	369.5	238.2	169.7	132.5	110.4	96.4	88.3	88.3
102.5°	1162.0	855.2	564.7	363.0	247.5	185.5	150.1	129.0	116.0	108.8	106.9
105°	1035.3	762.3	528.7	366.0	269.6	213.8	180.1	159.2	145.3	139.4	136.0
107.5°	933.1	710.2	522.2	383.2	295.4	244.3	211.0	191.0	176.2	170.3	168.0
110°	882.0	692.6	524.1	396.2	314.9	263.8	232.4	211.5	197.5	191.7	189.4



TEST NUMBER: P332663

CATALOG NUMBER: SA4XXDIP-C1020D1205U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	853.1	684.2	529.6	410.2	333.5	284.2	252.9	231.9	218.9	212.2	209.9
115°	826.2	679.8	540.3	432.3	362.5	316.1	284.7	262.6	251.0	242.9	239.4
117.5°	814.1	678.6	551.7	454.8	390.7	346.5	314.0	293.3	280.5	273.3	270.0
120°	807.6	678.6	560.1	470.6	410.2	366.0	333.5	313.7	301.0	292.8	290.5
122.5°	800.2	677.7	568.5	485.5	428.8	384.6	353.0	331.4	319.6	311.4	309.1
125°	787.8	676.3	581.0	507.8	454.3	412.5	380.0	357.9	345.1	338.1	333.5
127.5°	771.3	673.7	591.0	527.1	478.0	437.6	404.8	381.8	367.2	358.8	355.1
130°	761.1	672.8	598.4	539.2	493.9	454.3	420.6	398.6	381.1	371.8	367.2
132.5°	751.8	671.9	604.9	551.3	506.9	467.4	435.5	411.6	395.1	383.0	379.3
135°	737.9	670.5	614.7	567.1	525.2	486.9	456.7	432.3	412.5	400.9	396.2
137.5°	725.8	670.2	620.5	578.2	539.2	503.4	474.6	449.2	430.4	417.6	413.2
140°	719.3	669.3	625.2	585.6	548.5	513.6	485.7	461.3	441.6	428.8	425.3
142.5°	713.7	669.3	628.9	591.2	556.8	522.9	495.9	472.5	453.6	441.8	438.3
145°	704.2	667.0	631.0	597.3	565.9	535.7	510.1	488.0	471.8	460.2	456.7
147.5°	695.6	662.8	632.1	602.6	575.2	546.8	523.8	505.5	488.7	478.5	477.3
150°	689.1	660.0	632.1	605.4	579.8	554.3	532.2	514.8	500.8	491.5	490.4
152.5°	681.6	655.4	630.3	607.3	583.6	560.8	540.6	525.0	512.0	502.7	502.4
155°	670.5	648.4	627.5	608.9	589.1	569.4	552.0	539.2	527.5	520.6	519.4
157.5°	659.1	641.2	624.5	608.9	593.1	576.4	562.6	551.5	542.4	535.9	535.9
160°	650.7	635.6	621.7	608.9	594.9	581.0	568.2	558.9	550.8	546.1	546.1
162.5°	643.3	630.0	618.9	608.9	596.8	583.8	573.8	565.4	558.2	554.5	555.4
165°	631.0	621.7	613.5	606.6	597.3	586.8	579.8	574.0	568.2	565.9	565.9
167.5°	619.8	613.3	608.0	603.8	597.0	589.4	584.0	580.8	576.4	575.2	576.4
170°	612.4	607.7	604.2	601.9	596.1	590.3	586.8	584.5	581.0	579.8	581.0
172.5°	605.9	602.1	600.5	600.1	595.2	591.2	588.7	587.3	584.7	584.5	585.6
175°	598.4	596.1	596.1	597.3	593.8	591.5	591.5	590.3	589.1	589.1	590.3
177.5°	593.3	592.4	592.4	594.2	592.4	591.5	591.5	591.5	590.5	591.5	592.4
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5



TEST NUMBER: P332663

CATALOG NUMBER: SA4XXDIP-C1020D1205U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1679.9	1685.4	1692.6	1704.8	1709.2	1714.7	1722.5	1721.9	1724.1	1732.4	1750.1
5°	1686.1	1707.5	1728.3	1753.2	1779.4	1796.7	1820.2	1834.7	1849.2	1867.9	1899.7
7.5°	1688.6	1722.6	1760.6	1804.3	1843.2	1888.0	1922.9	1955.8	1985.6	2025.0	2062.9
10°	1684.7	1730.3	1779.4	1834.7	1893.5	1943.3	1988.2	2039.4	2082.9	2130.6	2173.5
12.5°	1677.5	1732.6	1798.2	1860.2	1928.9	2002.4	2058.4	2110.1	2168.1	2223.0	2289.1
15°	1661.2	1736.6	1813.3	1894.9	1986.8	2071.8	2152.7	2219.8	2282.0	2364.3	2450.7
17.5°	1640.5	1721.8	1818.5	1917.3	2013.4	2110.6	2210.7	2311.5	2390.0	2492.2	2559.8
20°	1621.1	1715.1	1814.7	1932.2	2028.3	2149.3	2248.8	2346.3	2454.1	2555.8	2636.6
22.5°	1594.0	1696.9	1802.5	1919.5	2046.0	2167.0	2282.0	2387.8	2495.6	2606.1	2704.1
25°	1559.6	1652.9	1778.0	1910.8	2036.6	2167.9	2300.0	2432.7	2548.8	2665.7	2756.9
27.5°	1501.0	1618.8	1735.3	1872.3	2012.1	2160.7	2301.9	2440.9	2562.5	2658.6	2715.2
30°	1471.1	1573.4	1699.9	1837.5	1988.9	2148.6	2295.8	2432.0	2545.4	2622.1	2644.9
32.5°	1426.9	1532.5	1656.2	1798.8	1959.0	2123.1	2276.5	2404.9	2499.5	2539.7	2512.2
35°	1361.2	1456.6	1581.7	1727.6	1894.2	2069.1	2220.5	2329.0	2377.4	2339.4	2244.7
37.5°	1282.4	1376.9	1502.6	1645.9	1818.3	1996.1	2133.0	2211.1	2195.0	2100.5	1959.3
40°	1227.1	1315.6	1435.2	1590.0	1758.0	1936.3	2056.6	2098.8	2054.6	1919.1	1769.1
42.5°	1165.7	1252.0	1372.1	1521.4	1699.4	1863.9	1968.7	1972.2	1898.0	1736.0	1585.4
45°	1072.2	1154.5	1267.9	1423.4	1587.9	1742.8	1811.9	1778.0	1641.2	1484.9	1333.5
47.5°	980.0	1051.3	1163.1	1310.7	1467.0	1597.3	1631.6	1570.6	1424.8	1273.1	1132.8
50°	912.5	984.4	1089.5	1230.5	1381.2	1493.9	1510.5	1429.6	1286.5	1133.7	1023.8
52.5°	847.8	919.2	1020.4	1150.9	1288.9	1390.5	1391.0	1297.4	1154.9	1018.7	916.5
55°	752.8	817.1	908.4	1025.2	1148.3	1227.8	1208.4	1111.6	987.9	869.7	780.5
57.5°	661.3	717.3	801.4	898.8	1007.2	1072.8	1040.7	947.5	837.0	736.8	669.2
60°	602.1	655.4	727.3	819.2	910.5	961.6	931.2	846.8	745.2	664.3	605.6
62.5°	544.6	589.5	658.7	738.5	823.1	861.0	833.9	750.6	662.8	589.7	542.0
65°	463.2	499.8	555.1	623.6	685.1	717.6	694.8	617.3	550.3	497.7	459.7
67.5°	387.1	415.8	457.6	512.5	564.8	582.4	561.6	507.7	450.9	408.8	382.0
70°	334.6	361.6	396.8	439.0	484.6	503.3	482.5	439.7	393.4	354.6	328.4
72.5°	288.7	309.6	339.3	375.4	411.1	429.7	415.6	374.4	335.3	306.5	284.1
75°	219.8	237.8	258.5	284.1	311.8	324.2	311.8	283.4	256.5	235.0	219.1
77.5°	159.8	169.5	185.5	204.6	221.9	231.4	220.7	201.4	185.0	170.3	162.5
80°	121.7	128.6	139.6	154.9	166.6	175.6	168.7	152.8	139.6	130.0	126.5
82.5°	88.5	93.2	100.4	111.7	119.6	124.2	121.1	109.6	104.2	95.7	92.2
85°	43.6	46.3	51.2	54.6	61.5	62.2	62.9	58.1	53.2	51.2	48.4
87.5°	15.6	16.9	18.8	20.7	22.9	24.8	24.3	24.7	23.0	22.2	20.2
90°	3.5	7.0	8.1	9.3	9.3	16.3	16.3	18.6	20.9	19.8	20.9
92.5°	19.3	30.2	44.4	61.4	85.5	144.6	234.7	322.6	368.6	307.0	228.2
95°	41.8	53.5	68.6	96.4	145.3	246.3	436.9	714.6	947.0	973.8	861.0
97.5°	68.8	78.8	92.7	116.7	157.6	235.4	392.8	668.8	997.5	1223.4	1272.2
100°	88.3	96.4	110.4	132.5	169.7	238.2	369.5	606.6	934.2	1231.7	1401.4
102.5°	108.8	116.0	129.0	150.1	185.5	247.5	363.0	564.7	855.2	1162.0	1394.9
105°	139.4	145.3	159.2	180.1	213.8	269.6	366.0	528.7	762.3	1035.3	1301.4
107.5°	170.3	176.2	191.0	211.0	244.3	295.4	383.2	522.2	710.2	933.1	1168.7
110°	191.7	197.5	211.5	232.4	263.8	314.9	396.2	524.1	692.6	882.0	1088.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	212.2	218.9	231.9	252.9	284.2	333.5	410.2	529.6	684.2	853.1	1030.2
115°	242.9	251.0	262.6	284.7	316.1	362.5	432.3	540.3	679.8	826.2	971.4
117.5°	273.3	280.5	293.3	314.0	346.5	390.7	454.8	551.7	678.6	814.1	942.6
120°	292.8	301.0	313.7	333.5	366.0	410.2	470.6	560.1	678.6	807.6	929.6
122.5°	311.4	319.6	331.4	353.0	384.6	428.8	485.5	568.5	677.7	800.2	918.4
125°	338.1	345.1	357.9	380.0	412.5	454.3	507.8	581.0	676.3	787.8	899.4
127.5°	358.8	367.2	381.8	404.8	437.6	478.0	527.1	591.0	673.7	771.3	876.1
130°	371.8	381.1	398.6	420.6	454.3	493.9	539.2	598.4	672.8	761.1	857.6
132.5°	383.0	395.1	411.6	435.5	467.4	506.9	551.3	604.9	671.9	751.8	838.0
135°	400.9	412.5	432.3	456.7	486.9	525.2	567.1	614.7	670.5	737.9	811.1
137.5°	417.6	430.4	449.2	474.6	503.4	539.2	578.2	620.5	670.2	725.8	786.7
140°	428.8	441.6	461.3	485.7	513.6	548.5	585.6	625.2	669.3	719.3	772.7
142.5°	441.8	453.6	472.5	495.9	522.9	556.8	591.2	628.9	669.3	713.7	759.7
145°	460.2	471.8	488.0	510.1	535.7	565.9	597.3	631.0	667.0	704.2	741.4
147.5°	478.5	488.7	505.5	523.8	546.8	575.2	602.6	632.1	662.8	695.6	726.3
150°	491.5	500.8	514.8	532.2	554.3	579.8	605.4	632.1	660.0	689.1	717.0
152.5°	502.7	512.0	525.0	540.6	560.8	583.6	607.3	630.3	655.4	681.6	706.7
155°	520.6	527.5	539.2	552.0	569.4	589.1	608.9	627.5	648.4	670.5	691.4
157.5°	535.9	542.4	551.5	562.6	576.4	593.1	608.9	624.5	641.2	659.1	674.9
160°	546.1	550.8	558.9	568.2	581.0	594.9	608.9	621.7	635.6	650.7	664.7
162.5°	554.5	558.2	565.4	573.8	583.8	596.8	608.9	618.9	630.0	643.3	654.4
165°	565.9	568.2	574.0	579.8	586.8	597.3	606.6	613.5	621.7	631.0	640.3
167.5°	575.2	576.4	580.8	584.0	589.4	597.0	603.8	608.0	613.3	619.8	626.6
170°	579.8	581.0	584.5	586.8	590.3	596.1	601.9	604.2	607.7	612.4	618.2
172.5°	584.5	584.7	587.3	588.7	591.2	595.2	600.1	600.5	602.1	605.9	610.7
175°	589.1	589.1	590.3	591.5	591.5	593.8	597.3	596.1	596.1	598.4	600.8
177.5°	591.5	590.5	591.5	591.5	591.5	592.4	594.2	592.4	592.4	593.3	594.2
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5



TEST NUMBER: P332663

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1759.0	1760.1	1765.0	1768.9	1770.0	1775.6	1776.1
5°	1913.5	1925.3	1948.1	1950.2	1953.6	1971.6	1957.8
7.5°	2094.7	2124.5	2144.4	2162.0	2168.4	2176.2	2174.6
10°	2210.8	2255.0	2277.2	2312.4	2313.8	2322.8	2317.3
12.5°	2327.5	2378.9	2419.3	2425.8	2455.4	2459.9	2467.7
15°	2492.8	2547.5	2603.5	2623.5	2664.3	2674.0	2689.2
17.5°	2648.3	2704.1	2743.4	2795.2	2812.0	2834.4	2819.1
20°	2733.4	2794.3	2844.0	2884.8	2902.1	2914.5	2913.2
22.5°	2784.9	2846.2	2886.6	2917.4	2933.6	2938.9	2938.6
25°	2817.1	2852.3	2864.8	2876.5	2858.6	2852.3	2855.1
27.5°	2727.5	2718.4	2685.9	2643.3	2599.0	2563.9	2544.8
30°	2604.2	2550.2	2501.1	2415.4	2371.2	2344.9	2321.4
32.5°	2429.4	2343.9	2249.5	2171.0	2120.7	2081.7	2075.9
35°	2129.9	2001.3	1885.9	1789.8	1740.0	1697.8	1688.2
37.5°	1810.8	1677.2	1573.3	1488.7	1435.2	1405.4	1377.6
40°	1599.0	1484.2	1381.9	1310.0	1269.2	1247.8	1230.5
42.5°	1435.8	1331.0	1229.3	1174.5	1137.6	1124.5	1114.4
45°	1210.5	1113.0	1042.5	1001.0	979.6	957.5	947.1
47.5°	1030.0	950.7	904.2	869.0	846.0	832.9	826.2
50°	927.7	862.7	821.3	794.3	773.6	763.2	757.7
52.5°	837.0	783.7	748.8	727.4	713.3	705.7	703.5
55°	721.0	680.2	658.1	639.5	629.1	622.2	619.4
57.5°	626.7	595.4	577.4	562.0	558.0	552.2	550.3
60°	564.8	540.6	525.4	515.0	511.6	504.7	506.0
62.5°	510.0	490.3	477.3	471.3	466.8	461.0	462.9
65°	431.4	416.9	409.9	404.4	398.9	395.4	398.2
67.5°	362.0	352.0	342.6	339.4	336.7	336.1	333.2
70°	316.6	308.3	300.0	298.0	298.0	295.2	294.5
72.5°	272.9	266.8	261.3	259.8	257.6	258.7	255.8
75°	210.8	206.0	203.9	201.9	201.2	201.2	199.1
77.5°	155.8	152.2	148.9	148.9	146.4	145.5	145.2
80°	118.2	116.8	114.1	114.1	112.7	113.4	112.0
82.5°	88.9	87.0	86.4	85.3	83.4	83.5	82.1
85°	47.7	45.6	44.9	42.9	41.5	42.9	41.5
87.5°	21.0	20.7	20.1	19.3	18.9	18.7	17.0
90°	22.1	23.2	23.2	24.4	25.6	24.4	24.4
92.5°	171.7	136.7	113.4	99.7	93.4	89.5	89.5
95°	680.9	525.2	412.5	355.6	319.6	298.6	283.5
97.5°	1205.2	1091.6	970.3	886.8	816.9	782.0	757.9
100°	1424.6	1367.7	1281.7	1180.6	1109.7	1074.9	1065.6
102.5°	1510.1	1526.6	1490.8	1428.8	1377.4	1340.7	1333.3
105°	1502.5	1617.5	1665.1	1667.5	1658.2	1641.9	1634.9
107.5°	1382.8	1544.8	1648.4	1705.8	1732.3	1743.9	1747.0
110°	1289.8	1458.3	1586.1	1668.6	1717.4	1738.4	1748.8



TEST NUMBER: P332663

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1208.0	1367.2	1495.0	1588.7	1647.7	1677.0	1694.0
115°	1114.4	1250.3	1361.9	1453.7	1523.4	1560.6	1569.9
117.5°	1060.9	1167.8	1262.4	1340.7	1399.3	1436.9	1444.1
120°	1037.7	1130.6	1213.1	1279.4	1330.5	1360.7	1373.5
122.5°	1022.8	1107.4	1179.7	1235.7	1279.4	1304.9	1317.7
125°	999.3	1079.5	1143.4	1189.9	1223.6	1245.7	1252.6
127.5°	971.7	1051.6	1112.3	1159.0	1189.0	1207.6	1214.5
130°	949.4	1028.4	1090.0	1137.6	1166.6	1185.2	1192.2
132.5°	924.3	1001.4	1063.0	1109.7	1142.5	1160.1	1167.1
135°	886.6	957.5	1015.6	1062.1	1094.6	1113.2	1120.2
137.5°	850.6	910.3	962.8	1006.3	1038.4	1053.7	1062.1
140°	827.3	879.6	928.4	969.1	994.7	1010.9	1020.2
142.5°	807.8	852.7	895.0	931.0	954.7	969.1	975.6
145°	780.9	815.7	848.3	877.3	897.1	908.7	914.5
147.5°	757.6	785.5	811.1	832.5	849.4	858.3	860.3
150°	743.7	766.9	787.8	806.4	821.5	828.5	829.7
152.5°	729.7	751.1	768.3	784.1	796.4	800.6	801.8
155°	710.0	727.4	741.4	753.0	762.3	765.8	765.8
157.5°	690.5	705.1	716.3	725.1	732.1	734.2	734.2
160°	677.4	690.2	699.5	706.5	713.5	714.6	714.6
162.5°	665.4	675.4	683.7	688.8	695.8	697.0	696.0
165°	647.2	655.4	661.2	665.8	670.5	669.3	668.2
167.5°	631.9	638.4	641.9	644.2	647.2	647.0	646.1
170°	621.7	626.3	629.8	632.1	633.3	632.1	632.1
172.5°	613.3	616.1	618.6	620.0	621.2	620.0	618.2
175°	601.9	604.2	604.2	604.2	606.6	604.2	601.9
177.5°	595.2	595.2	596.1	595.2	596.1	594.2	592.4
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5

(END OF REPORT)