

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: P332663-840

Luminaire Tested: **SA4XXDIP-C1020D1205U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332663-840
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-C1020D1205U840-4F0-1E-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: 8997.1 lumens
Efficiency: N/A
Efficacy: 137.6 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

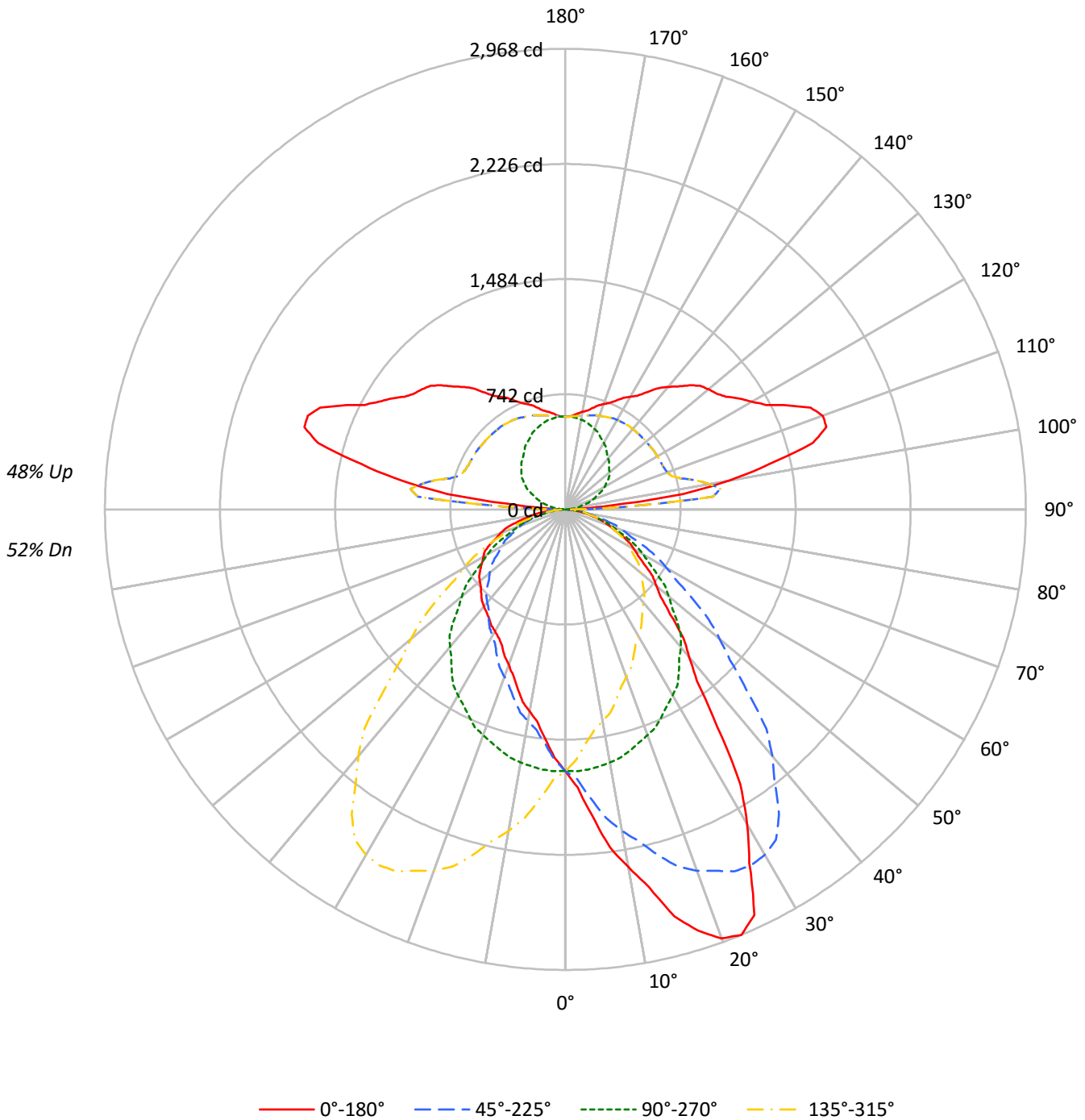
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13605	13605	13605	13605
5°	16022	13639	12039	13639
10°	19184	13581	10839	13581
15°	22697	13443	9954	13443
20°	25274	13302	9164	13302
25°	25683	13097	8620	13097
30°	21853	12899	8447	12899
35°	16802	12577	8449	12577
40°	13095	12198	8608	12198
45°	10919	11628	8752	11628
50°	9610	10934	9048	10934
55°	8804	10101	9413	10101
60°	8251	9357	9852	9357
65°	7681	8521	10214	8521
70°	7020	7695	10447	7695
75°	6273	6772	10321	6772
80°	5258	5551	9995	5551
85°	3881	4011	9568	4011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	1.8
10°-20°	506.1	5.6
20°-30°	802.5	8.9
30°-40°	893.1	9.9
40°-50°	812.9	9.0
50°-60°	664.3	7.4
60°-70°	474.2	5.3
70°-80°	261.1	2.9
80°-90°	74.6	0.8
90°-100°	431.4	4.8
100°-110°	897.9	10.0
110°-120°	804.2	8.9
120°-130°	676.5	7.5
130°-140°	564.1	6.3
140°-150°	430.9	4.8
150°-160°	302.9	3.4
160°-170°	178.2	2.0
170°-180°	58.0	0.6
0°-30°	1472.7	16.4
0°-40°	2365.8	26.3
0°-60°	3843.0	42.7
0°-90°	4653.0	51.7
90°-120°	2133.5	23.7
90°-150°	3805.0	42.3
90°-180°	4344.0	48.3
0°-180°	8997.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1685	1685	1685	1685	1685	
5°	1977	1683	1486	1683	1977	201
15°	2716	1608	1191	1608	2716	767
25°	2883	1470	968	1470	2883	1271
35°	1705	1276	857	1276	1705	1082
45°	956	1018	767	1018	956	753
55°	626	718	669	718	626	565
65°	402	446	535	446	402	398
75°	201	217	331	217	201	214
85°	42	43	103	43	42	52
90°	25	1	25	1	25	21
95°	286	39	286	39	286	444
105°	1651	137	1651	137	1651	1632
115°	1585	242	1585	242	1585	1574
125°	1265	337	1265	337	1265	1149
135°	1131	400	1131	400	1131	873
145°	924	461	924	461	924	585
155°	773	524	773	524	773	361
165°	675	572	675	572	675	193
175°	608	596	608	596	608	59
180°	597	597	597	597	597	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1793.6	1793.1	1787.5	1786.4	1782.4	1777.5	1776.4	1767.4	1749.5	1741.1	1738.9
5°	1977.1	1991.0	1972.9	1969.4	1967.3	1944.3	1932.4	1918.4	1886.3	1867.4	1852.8
7.5°	2196.1	2197.7	2189.8	2183.3	2165.6	2145.5	2115.4	2083.3	2045.0	2005.2	1975.1
10°	2340.2	2345.7	2336.6	2335.2	2299.7	2277.2	2232.6	2194.9	2151.6	2103.4	2059.5
12.5°	2492.0	2484.2	2479.6	2449.7	2443.2	2402.4	2350.5	2311.7	2244.9	2189.5	2130.9
15°	2715.7	2700.4	2690.6	2649.4	2629.2	2572.6	2517.4	2474.9	2387.6	2304.5	2241.7
17.5°	2846.9	2862.4	2839.7	2822.8	2770.5	2730.8	2674.4	2585.1	2516.8	2413.6	2334.3
20°	2941.9	2943.3	2930.7	2913.3	2872.1	2821.9	2760.4	2662.6	2581.0	2478.3	2369.4
22.5°	2967.6	2967.9	2962.5	2946.2	2915.1	2874.3	2812.4	2730.8	2631.8	2520.2	2411.4
25°	2883.3	2880.4	2886.8	2904.9	2893.1	2880.4	2844.9	2784.1	2692.0	2573.9	2456.7
27.5°	2569.9	2589.2	2624.6	2669.4	2712.4	2745.2	2754.4	2742.0	2684.8	2587.8	2465.0
30°	2344.3	2368.0	2394.6	2439.2	2525.8	2575.4	2629.9	2671.0	2648.0	2570.5	2456.0
32.5°	2096.4	2102.2	2141.6	2192.4	2271.7	2367.0	2453.4	2537.0	2564.8	2524.2	2428.6
35°	1704.9	1714.5	1757.2	1807.5	1904.5	2021.0	2150.9	2266.8	2362.5	2400.9	2352.0
37.5°	1391.2	1419.3	1449.4	1503.4	1588.8	1693.7	1828.7	1978.6	2121.2	2216.7	2232.9
40°	1242.6	1260.1	1281.7	1322.9	1395.5	1498.8	1614.8	1786.6	1938.0	2074.9	2119.5
42.5°	1125.4	1135.6	1148.8	1186.1	1241.4	1344.1	1450.0	1601.0	1753.1	1916.7	1991.7
45°	956.4	966.9	989.3	1010.9	1052.8	1124.0	1222.4	1346.7	1499.5	1657.4	1795.5
47.5°	834.4	841.1	854.3	877.6	913.1	960.1	1040.2	1144.0	1285.7	1438.9	1586.1
50°	765.2	770.7	781.2	802.1	829.4	871.2	936.9	1033.9	1144.9	1299.2	1443.7
52.5°	710.4	712.7	720.3	734.6	756.2	791.4	845.3	925.5	1028.7	1166.3	1310.2
55°	625.5	628.3	635.3	645.8	664.6	686.9	728.1	788.2	878.3	997.6	1122.6
57.5°	555.7	557.6	563.5	567.5	583.1	601.3	632.9	675.8	744.1	845.3	956.8
60°	511.0	509.7	516.6	520.1	530.6	545.9	570.4	611.6	670.9	752.6	855.2
62.5°	467.5	465.5	471.4	475.9	482.0	495.1	515.0	547.3	595.5	669.3	758.0
65°	402.1	399.3	402.8	408.4	413.9	421.0	435.7	464.2	502.6	555.7	623.4
67.5°	336.5	339.4	340.0	342.7	346.0	355.5	365.6	385.8	412.8	455.3	512.7
70°	297.4	298.1	300.9	300.9	303.0	311.3	319.7	331.6	358.1	397.3	444.0
72.5°	258.3	261.3	260.1	262.4	263.9	269.4	275.6	286.9	309.5	338.6	378.1
75°	201.1	203.2	203.2	203.9	205.9	208.0	212.9	221.3	237.3	259.0	286.2
77.5°	146.6	146.9	147.8	150.4	150.4	153.7	157.3	164.1	172.0	186.8	203.4
80°	113.1	114.5	113.8	115.2	115.2	118.0	119.4	127.7	131.3	141.0	154.3
82.5°	82.9	84.3	84.2	86.1	87.3	87.9	89.8	93.1	96.6	105.2	110.7
85°	41.9	43.3	41.9	43.3	45.3	46.0	48.2	48.9	51.7	53.7	58.7
87.5°	17.2	18.9	19.1	19.5	20.3	20.9	21.2	20.4	22.4	23.2	24.9
90°	24.6	24.6	25.9	24.6	23.4	23.4	22.3	21.1	20.0	21.1	18.8
92.5°	90.4	90.4	94.3	100.7	114.5	138.0	173.4	230.5	310.0	372.2	325.8
95°	286.3	301.5	322.8	359.1	416.6	530.4	687.6	869.5	983.4	956.3	721.6
97.5°	765.4	789.7	825.0	895.5	979.9	1102.4	1217.1	1284.8	1235.5	1007.3	675.4
100°	1076.1	1085.5	1120.6	1192.2	1294.3	1381.2	1438.7	1415.2	1243.9	943.4	612.6
102.5°	1346.5	1353.9	1391.0	1442.9	1505.5	1541.7	1525.0	1408.7	1173.5	863.6	570.3
105°	1651.0	1658.1	1674.6	1683.9	1681.5	1633.5	1517.3	1314.2	1045.5	769.8	533.9
107.5°	1764.2	1761.1	1749.4	1722.6	1664.7	1560.0	1396.4	1180.2	942.3	717.2	527.4
110°	1766.1	1755.5	1734.3	1685.1	1601.7	1472.7	1302.5	1099.5	890.7	699.4	529.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1710.7	1693.5	1664.0	1604.4	1509.7	1380.7	1219.9	1040.4	861.5	690.9	534.8
115°	1585.4	1576.0	1538.4	1468.0	1375.3	1262.6	1125.4	981.0	834.4	686.5	545.6
117.5°	1458.3	1451.1	1413.1	1353.9	1274.9	1179.3	1071.4	951.9	822.1	685.3	557.1
120°	1387.0	1374.1	1343.6	1292.0	1225.1	1141.8	1047.9	938.8	815.6	685.3	565.6
122.5°	1330.7	1317.8	1292.0	1247.9	1191.3	1118.3	1032.9	927.5	808.1	684.4	574.1
125°	1265.0	1258.0	1235.7	1201.6	1154.7	1090.1	1009.2	908.3	795.6	683.0	586.7
127.5°	1226.5	1219.5	1200.7	1170.4	1123.3	1062.0	981.3	884.7	778.9	680.3	596.8
130°	1204.0	1196.9	1178.1	1148.8	1100.8	1038.5	958.8	866.1	768.6	679.4	604.3
132.5°	1178.6	1171.5	1153.8	1120.6	1073.5	1011.3	933.4	846.3	759.2	678.5	610.9
135°	1131.3	1124.2	1105.4	1072.6	1025.6	966.9	895.3	819.1	745.2	677.1	620.8
137.5°	1072.6	1064.1	1048.6	1016.2	972.3	919.3	859.0	794.5	733.0	676.8	626.6
140°	1030.3	1020.9	1004.5	978.7	937.6	888.3	835.5	780.3	726.4	675.9	631.4
142.5°	985.2	978.7	964.1	940.2	903.8	861.1	815.8	767.2	720.7	675.9	635.1
145°	923.5	917.7	905.9	886.0	856.7	823.7	788.6	748.7	711.1	673.6	637.2
147.5°	868.8	866.8	857.8	840.7	819.1	793.2	765.1	733.5	702.5	669.3	638.3
150°	837.9	836.7	829.6	814.4	795.6	774.5	751.0	724.1	695.9	666.5	638.3
152.5°	809.7	808.5	804.3	791.8	775.9	758.5	736.9	713.7	688.3	661.9	636.5
155°	773.4	773.4	769.8	760.4	748.7	734.6	717.0	698.2	677.1	654.8	633.7
157.5°	741.4	741.4	739.3	732.3	723.4	712.1	697.3	681.6	665.6	647.5	630.7
160°	721.6	721.6	720.5	713.5	706.4	697.0	684.1	671.3	657.1	641.9	627.8
162.5°	702.9	703.9	702.7	695.6	690.4	682.1	672.0	660.9	649.6	636.2	625.0
165°	674.8	675.9	677.1	672.4	667.7	661.9	653.6	646.6	637.2	627.8	619.6
167.5°	652.5	653.4	653.6	650.6	648.2	644.7	638.1	632.8	625.9	619.4	614.0
170°	638.3	638.3	639.5	638.3	636.0	632.5	627.8	624.3	618.4	613.7	610.2
172.5°	624.3	626.1	627.3	626.1	624.7	622.2	619.4	616.7	611.9	608.0	606.4
175°	607.8	610.2	612.6	610.2	610.2	610.2	607.8	606.7	604.3	602.0	602.0
177.5°	598.2	600.1	602.0	601.1	602.0	601.1	601.1	600.1	599.2	598.2	598.2
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1739.5	1731.6	1726.1	1721.6	1709.3	1702.0	1696.5	1688.6	1679.7	1670.2	1658.5
5°	1838.2	1814.4	1797.0	1770.5	1745.3	1724.3	1702.7	1683.1	1659.4	1633.7	1614.8
7.5°	1941.9	1906.6	1861.4	1822.1	1778.0	1739.6	1705.3	1670.0	1633.5	1598.0	1565.5
10°	2007.8	1962.5	1912.2	1852.8	1797.0	1747.4	1701.3	1656.7	1613.4	1570.0	1533.1
12.5°	2078.7	2022.2	1947.9	1878.6	1815.9	1749.7	1694.0	1639.3	1587.1	1541.6	1498.4
15°	2173.9	2092.2	2006.4	1913.6	1831.2	1753.7	1677.6	1608.5	1549.8	1489.8	1447.9
17.5°	2232.5	2131.4	2033.3	1936.2	1836.4	1738.8	1656.7	1576.9	1503.5	1443.9	1391.1
20°	2271.0	2170.5	2048.3	1951.3	1832.6	1732.0	1637.1	1548.4	1471.7	1408.2	1353.6
22.5°	2304.5	2188.4	2066.2	1938.4	1820.3	1713.6	1609.7	1520.6	1442.1	1375.1	1322.9
25°	2322.7	2189.3	2056.7	1929.7	1795.5	1669.2	1575.0	1470.3	1386.4	1316.0	1260.1
27.5°	2324.6	2182.0	2031.9	1890.8	1752.4	1634.8	1515.8	1422.2	1335.2	1260.7	1207.1
30°	2318.4	2169.8	2008.5	1855.6	1716.7	1588.9	1485.6	1383.7	1295.1	1221.0	1165.2
32.5°	2299.0	2144.0	1978.3	1816.5	1672.5	1547.6	1441.0	1344.0	1257.6	1184.7	1126.1
35°	2242.4	2089.5	1912.9	1744.6	1597.3	1471.0	1374.6	1276.2	1189.6	1120.4	1064.0
37.5°	2154.0	2015.8	1836.2	1662.1	1517.4	1390.5	1295.1	1206.1	1128.0	1057.8	999.9
40°	2076.9	1955.4	1775.3	1605.7	1449.4	1328.6	1239.2	1157.5	1080.1	1013.7	958.6
42.5°	1988.1	1882.3	1716.2	1536.4	1385.6	1264.4	1177.2	1103.9	1030.9	969.6	914.4
45°	1829.8	1760.0	1603.6	1437.4	1280.4	1165.9	1082.8	1018.5	957.2	897.1	851.0
47.5°	1647.7	1613.1	1481.5	1323.6	1174.6	1061.7	989.7	930.3	876.5	825.6	785.0
50°	1525.4	1508.6	1394.8	1242.6	1100.2	994.1	921.5	870.6	824.5	779.8	741.4
52.5°	1404.7	1404.2	1301.6	1162.3	1030.5	928.3	856.2	808.6	768.6	732.4	697.8
55°	1220.3	1239.9	1159.6	1035.3	917.4	825.2	760.2	717.7	689.7	659.7	633.9
57.5°	1051.0	1083.4	1017.1	907.7	809.3	724.4	667.8	635.8	606.1	587.9	569.2
60°	940.4	971.1	919.5	827.3	734.5	661.9	608.0	579.5	553.6	541.1	527.8
62.5°	842.1	869.5	831.2	745.8	665.2	595.3	550.0	522.5	505.0	491.3	482.5
65°	701.7	724.7	691.9	629.8	560.6	504.7	467.8	446.1	429.4	423.7	413.9
67.5°	567.1	588.1	570.4	517.6	462.1	419.9	390.9	370.1	360.2	355.4	348.4
70°	487.3	508.3	489.4	443.3	400.7	365.2	337.9	326.0	315.6	313.5	303.7
72.5°	419.7	433.9	415.2	379.1	342.6	312.7	291.5	279.1	273.7	269.9	264.6
75°	314.9	327.4	314.9	286.9	261.1	240.1	222.0	217.1	210.9	208.7	205.2
77.5°	222.9	233.7	224.1	206.6	187.3	171.2	161.4	155.1	153.7	150.1	151.8
80°	170.4	177.3	168.2	156.4	141.0	129.9	122.9	119.4	115.2	113.8	116.5
82.5°	122.3	125.4	120.8	112.8	101.4	94.1	89.4	85.3	84.4	84.7	84.7
85°	63.5	62.8	62.1	55.1	51.7	46.8	44.0	43.3	42.6	44.0	45.3
87.5°	24.5	25.0	23.1	20.9	19.0	17.1	15.8	14.7	15.8	17.1	17.9
90°	16.5	16.5	9.4	9.4	8.2	7.1	3.5	1.2	3.5	7.1	8.2
92.5°	237.0	146.0	86.3	62.0	44.8	30.5	19.5	13.3	19.5	30.5	44.8
95°	441.2	248.7	146.7	97.4	69.3	54.0	42.2	38.7	42.2	54.0	69.3
97.5°	396.7	237.7	159.2	117.9	93.6	79.6	69.5	69.5	69.5	79.6	93.6
100°	373.1	240.5	171.4	133.8	111.5	97.4	89.2	89.2	89.2	97.4	111.5
102.5°	366.6	249.9	187.3	151.6	130.3	117.1	109.9	108.0	109.9	117.1	130.3
105°	369.6	272.3	215.9	181.9	160.8	146.7	140.8	137.3	140.8	146.7	160.8
107.5°	387.0	298.3	246.7	213.1	192.9	177.9	172.0	169.7	172.0	177.9	192.9
110°	400.1	318.0	266.4	234.7	213.6	199.4	193.6	191.3	193.6	199.4	213.6



TEST NUMBER: P332663-840

CATALOG NUMBER: SA4XXDIP-C1020D1205U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	414.2	336.8	287.0	255.4	234.2	221.1	214.3	212.0	214.3	221.1	234.2
115°	436.6	366.1	319.2	287.5	265.2	253.5	245.3	241.8	245.3	253.5	265.2
117.5°	459.3	394.6	349.9	317.1	296.2	283.3	276.0	272.7	276.0	283.3	296.2
120°	475.2	414.2	369.6	336.8	316.8	304.0	295.7	293.4	295.7	304.0	316.8
122.5°	490.3	433.0	388.4	356.5	334.7	322.8	314.5	312.1	314.5	322.8	334.7
125°	512.8	458.8	416.6	383.7	361.4	348.5	341.4	336.8	341.4	348.5	361.4
127.5°	532.3	482.7	441.9	408.8	385.6	370.8	362.3	358.6	362.3	370.8	385.6
130°	544.5	498.8	458.8	424.7	402.5	384.9	375.5	370.8	375.5	384.9	402.5
132.5°	556.7	511.9	472.0	439.8	415.7	399.0	386.8	383.0	386.8	399.0	415.7
135°	572.7	530.4	491.7	461.2	436.6	416.6	404.9	400.1	404.9	416.6	436.6
137.5°	583.9	544.5	508.4	479.3	453.6	434.6	421.7	417.3	421.7	434.6	453.6
140°	591.4	553.9	518.7	490.5	465.9	446.0	433.0	429.5	433.0	446.0	465.9
142.5°	597.0	562.3	528.1	500.8	477.2	458.1	446.2	442.6	446.2	458.1	477.2
145°	603.2	571.5	541.0	515.1	492.8	476.5	464.7	461.2	464.7	476.5	492.8
147.5°	608.5	580.9	552.2	529.0	510.5	493.5	483.2	482.0	483.2	493.5	510.5
150°	611.4	585.5	559.8	537.5	519.9	505.7	496.3	495.2	496.3	505.7	519.9
152.5°	613.3	589.4	566.3	545.9	530.2	517.1	507.7	507.4	507.7	517.1	530.2
155°	614.9	594.9	575.0	557.4	544.5	532.7	525.7	524.5	525.7	532.7	544.5
157.5°	614.9	599.0	582.1	568.2	556.9	547.8	541.2	541.2	541.2	547.8	556.9
160°	614.9	600.8	586.7	573.8	564.4	556.2	551.5	551.5	551.5	556.2	564.4
162.5°	614.9	602.7	589.6	579.5	571.0	563.7	560.0	560.9	560.0	563.7	571.0
165°	612.6	603.2	592.6	585.5	579.7	573.8	571.5	571.5	571.5	573.8	579.7
167.5°	609.8	602.9	595.2	589.8	586.5	582.1	580.9	582.1	580.9	582.1	586.5
170°	607.8	602.0	596.1	592.6	590.3	586.7	585.5	586.7	585.5	586.7	590.3
172.5°	606.0	601.1	597.0	594.5	593.1	590.5	590.3	591.4	590.3	590.5	593.1
175°	603.2	599.7	597.3	597.3	596.1	594.9	594.9	596.1	594.9	594.9	596.1
177.5°	600.1	598.2	597.3	597.3	597.3	596.3	597.3	598.2	597.3	596.3	597.3
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



TEST NUMBER: P332663-840

CATALOG NUMBER: SA4XXDIP-C1020D1205U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1652.8	1647.9	1640.6	1630.5	1622.1	1613.3	1611.0	1607.6	1614.4	1608.7	1607.1
5°	1598.7	1584.1	1565.2	1543.6	1531.0	1512.9	1509.3	1502.4	1495.4	1494.7	1487.7
7.5°	1541.4	1519.8	1495.1	1473.1	1452.7	1432.8	1419.9	1417.0	1406.7	1400.7	1393.7
10°	1504.5	1477.9	1449.4	1428.4	1404.6	1383.7	1369.1	1360.7	1353.6	1345.9	1339.0
12.5°	1460.9	1432.7	1409.1	1386.4	1358.3	1342.3	1318.2	1303.6	1302.3	1302.4	1284.2
15°	1410.2	1382.3	1345.9	1313.8	1298.5	1267.8	1254.6	1237.8	1227.3	1216.8	1208.5
17.5°	1352.3	1317.5	1289.2	1252.3	1222.9	1198.5	1181.1	1171.0	1155.3	1140.4	1129.7
20°	1316.0	1279.0	1248.9	1209.8	1177.7	1147.7	1133.1	1119.1	1107.2	1094.7	1082.8
22.5°	1279.1	1240.4	1203.7	1165.7	1135.9	1104.2	1090.0	1071.1	1059.8	1052.8	1040.9
25°	1221.0	1179.1	1137.2	1101.0	1070.3	1042.3	1023.5	1008.8	996.2	990.7	983.0
27.5°	1157.9	1116.3	1075.8	1034.6	999.8	979.5	964.4	953.3	946.1	938.7	935.2
30°	1117.7	1074.4	1031.2	992.7	960.6	940.4	926.5	918.8	913.1	909.7	906.2
32.5°	1076.9	1034.2	988.7	953.6	924.8	906.9	896.3	888.6	885.8	884.5	883.2
35°	1011.6	968.3	926.5	895.0	867.8	860.8	851.7	847.5	846.2	851.0	853.1
37.5°	948.4	908.2	869.6	839.1	821.3	811.1	808.0	808.2	813.1	817.5	822.5
40°	907.6	868.5	832.1	805.7	788.9	782.6	781.2	784.7	790.3	795.2	800.7
42.5°	867.9	829.4	796.4	771.5	759.8	754.1	755.0	758.4	766.3	772.2	780.6
45°	806.4	774.3	742.1	721.9	712.1	713.5	713.5	719.7	727.4	736.5	745.6
47.5°	748.4	716.0	689.6	672.6	667.5	666.3	670.2	678.4	689.4	700.6	713.4
50°	709.3	678.5	655.5	640.2	634.6	636.7	642.3	649.9	663.2	677.2	690.4
52.5°	669.6	641.7	620.4	606.1	602.2	606.0	611.6	623.7	635.3	650.4	666.4
55°	608.0	584.3	567.5	557.1	555.7	557.8	564.1	577.3	594.1	613.0	628.3
57.5°	546.7	526.9	511.6	504.3	505.0	507.0	517.4	533.1	551.0	571.1	590.9
60°	505.4	487.3	474.7	469.2	469.8	474.0	486.6	501.3	523.6	543.1	564.1
62.5°	466.4	450.4	438.4	433.4	432.4	441.6	453.6	468.9	491.2	513.0	535.6
65°	403.5	390.9	381.2	378.4	380.5	387.5	402.8	423.0	441.9	464.9	488.7
67.5°	342.0	331.7	325.1	326.3	328.8	339.1	352.0	369.4	390.8	414.7	438.2
70°	303.0	293.2	287.6	288.3	292.6	305.1	316.3	333.7	356.8	381.2	400.7
72.5°	262.8	256.3	251.4	254.3	258.4	267.1	281.0	298.5	318.8	341.5	362.1
75°	201.8	201.8	198.9	201.1	207.3	215.7	226.2	244.4	264.6	282.8	299.5
77.5°	149.7	148.1	150.0	152.5	156.1	166.0	178.0	191.0	206.2	224.4	238.2
80°	114.5	115.2	118.7	122.9	124.3	132.0	144.5	156.4	168.2	183.6	196.8
82.5°	86.0	86.7	88.6	93.8	95.2	103.5	111.6	123.4	134.2	144.5	155.5
85°	46.8	46.8	50.3	52.3	55.8	61.4	66.3	73.3	83.1	90.1	100.5
87.5°	19.8	19.8	23.4	24.5	26.7	29.9	30.8	37.2	39.7	42.7	47.7
90°	9.4	9.4	16.5	16.5	18.8	21.1	20.0	21.1	22.3	23.4	23.4
92.5°	62.0	86.3	146.0	237.0	325.8	372.2	310.0	230.5	173.4	138.0	114.5
95°	97.4	146.7	248.7	441.2	721.6	956.3	983.4	869.5	687.6	530.4	416.6
97.5°	117.9	159.2	237.7	396.7	675.4	1007.3	1235.5	1284.8	1217.1	1102.4	979.9
100°	133.8	171.4	240.5	373.1	612.6	943.4	1243.9	1415.2	1438.7	1381.2	1294.3
102.5°	151.6	187.3	249.9	366.6	570.3	863.6	1173.5	1408.7	1525.0	1541.7	1505.5
105°	181.9	215.9	272.3	369.6	533.9	769.8	1045.5	1314.2	1517.3	1633.5	1681.5
107.5°	213.1	246.7	298.3	387.0	527.4	717.2	942.3	1180.2	1396.4	1560.0	1664.7
110°	234.7	266.4	318.0	400.1	529.3	699.4	890.7	1099.5	1302.5	1472.7	1601.7



TEST NUMBER: P332663-840

CATALOG NUMBER: SA4XXDIP-C1020D1205U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	255.4	287.0	336.8	414.2	534.8	690.9	861.5	1040.4	1219.9	1380.7	1509.7
115°	287.5	319.2	366.1	436.6	545.6	686.5	834.4	981.0	1125.4	1262.6	1375.3
117.5°	317.1	349.9	394.6	459.3	557.1	685.3	822.1	951.9	1071.4	1179.3	1274.9
120°	336.8	369.6	414.2	475.2	565.6	685.3	815.6	938.8	1047.9	1141.8	1225.1
122.5°	356.5	388.4	433.0	490.3	574.1	684.4	808.1	927.5	1032.9	1118.3	1191.3
125°	383.7	416.6	458.8	512.8	586.7	683.0	795.6	908.3	1009.2	1090.1	1154.7
127.5°	408.8	441.9	482.7	532.3	596.8	680.3	778.9	884.7	981.3	1062.0	1123.3
130°	424.7	458.8	498.8	544.5	604.3	679.4	768.6	866.1	958.8	1038.5	1100.8
132.5°	439.8	472.0	511.9	556.7	610.9	678.5	759.2	846.3	933.4	1011.3	1073.5
135°	461.2	491.7	530.4	572.7	620.8	677.1	745.2	819.1	895.3	966.9	1025.6
137.5°	479.3	508.4	544.5	583.9	626.6	676.8	733.0	794.5	859.0	919.3	972.3
140°	490.5	518.7	553.9	591.4	631.4	675.9	726.4	780.3	835.5	888.3	937.6
142.5°	500.8	528.1	562.3	597.0	635.1	675.9	720.7	767.2	815.8	861.1	903.8
145°	515.1	541.0	571.5	603.2	637.2	673.6	711.1	748.7	788.6	823.7	856.7
147.5°	529.0	552.2	580.9	608.5	638.3	669.3	702.5	733.5	765.1	793.2	819.1
150°	537.5	559.8	585.5	611.4	638.3	666.5	695.9	724.1	751.0	774.5	795.6
152.5°	545.9	566.3	589.4	613.3	636.5	661.9	688.3	713.7	736.9	758.5	775.9
155°	557.4	575.0	594.9	614.9	633.7	654.8	677.1	698.2	717.0	734.6	748.7
157.5°	568.2	582.1	599.0	614.9	630.7	647.5	665.6	681.6	697.3	712.1	723.4
160°	573.8	586.7	600.8	614.9	627.8	641.9	657.1	671.3	684.1	697.0	706.4
162.5°	579.5	589.6	602.7	614.9	625.0	636.2	649.6	660.9	672.0	682.1	690.4
165°	585.5	592.6	603.2	612.6	619.6	627.8	637.2	646.6	653.6	661.9	667.7
167.5°	589.8	595.2	602.9	609.8	614.0	619.4	625.9	632.8	638.1	644.7	648.2
170°	592.6	596.1	602.0	607.8	610.2	613.7	618.4	624.3	627.8	632.5	636.0
172.5°	594.5	597.0	601.1	606.0	606.4	608.0	611.9	616.7	619.4	622.2	624.7
175°	597.3	597.3	599.7	603.2	602.0	602.0	604.3	606.7	607.8	610.2	610.2
177.5°	597.3	597.3	598.2	600.1	598.2	598.2	599.2	600.1	601.1	601.1	602.0
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



TEST NUMBER: P332663-840

CATALOG NUMBER: SA4XXDIP-C1020D1205U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1606.0	1604.9	1600.9	1600.4	1600.9	1604.9	1606.0	1607.1	1608.7	1614.4	1607.6
5°	1483.5	1480.1	1477.9	1485.6	1477.9	1480.1	1483.5	1487.7	1494.7	1495.4	1502.4
7.5°	1391.2	1388.5	1382.3	1380.4	1382.3	1388.5	1391.2	1393.7	1400.7	1406.7	1417.0
10°	1332.0	1329.2	1323.6	1322.2	1323.6	1329.2	1332.0	1339.0	1345.9	1353.6	1360.7
12.5°	1275.1	1269.5	1268.4	1269.7	1268.4	1269.5	1275.1	1284.2	1302.4	1302.3	1303.6
15°	1199.4	1196.6	1188.9	1191.0	1188.9	1196.6	1199.4	1208.5	1216.8	1227.3	1237.8
17.5°	1124.8	1121.5	1112.2	1120.3	1112.2	1121.5	1124.8	1129.7	1140.4	1155.3	1171.0
20°	1077.9	1072.3	1067.4	1066.7	1067.4	1072.3	1077.9	1082.8	1094.7	1107.2	1119.1
22.5°	1033.2	1028.2	1027.7	1023.2	1027.7	1028.2	1033.2	1040.9	1052.8	1059.8	1071.1
25°	977.3	972.5	971.1	967.7	971.1	972.5	977.3	983.0	990.7	996.2	1008.8
27.5°	934.5	932.1	929.6	930.7	929.6	932.1	934.5	935.2	938.7	946.1	953.3
30°	908.3	907.6	906.2	906.2	906.2	907.6	908.3	906.2	909.7	913.1	918.8
32.5°	886.5	886.4	887.2	887.2	887.2	886.4	886.5	883.2	884.5	885.8	888.6
35°	855.9	858.0	859.4	857.3	859.4	858.0	855.9	853.1	851.0	846.2	847.5
37.5°	828.3	830.3	832.3	834.7	832.3	830.3	828.3	822.5	817.5	813.1	808.2
40°	807.0	811.9	813.3	816.8	813.3	811.9	807.0	800.7	795.2	790.3	784.7
42.5°	786.9	792.3	796.0	796.7	796.0	792.3	786.9	780.6	772.2	766.3	758.4
45°	756.1	761.6	766.6	766.6	766.6	761.6	756.1	745.6	736.5	727.4	719.7
47.5°	724.1	732.2	737.1	738.3	737.1	732.2	724.1	713.4	700.6	689.4	678.4
50°	702.4	712.1	717.0	720.4	717.0	712.1	702.4	690.4	677.2	663.2	649.9
52.5°	681.1	690.8	697.4	699.2	697.4	690.8	681.1	666.4	650.4	635.3	623.7
55°	644.4	658.3	666.0	668.8	666.0	658.3	644.4	628.3	613.0	594.1	577.3
57.5°	609.8	622.6	631.6	633.6	631.6	622.6	609.8	590.9	571.1	551.0	533.1
60°	582.9	596.9	608.0	610.2	608.0	596.9	582.9	564.1	543.1	523.6	501.3
62.5°	555.5	570.1	580.2	585.6	580.2	570.1	555.5	535.6	513.0	491.2	468.9
65°	508.3	522.9	532.7	534.7	532.7	522.9	508.3	488.7	464.9	441.9	423.0
67.5°	456.6	471.2	477.7	481.7	477.7	471.2	456.6	438.2	414.7	390.8	369.4
70°	420.3	432.1	439.1	442.6	439.1	432.1	420.3	400.7	381.2	356.8	333.7
72.5°	378.9	391.3	399.5	400.2	399.5	391.3	378.9	362.1	341.5	318.8	298.5
75°	315.6	326.7	330.9	330.9	330.9	326.7	315.6	299.5	282.8	264.6	244.4
77.5°	249.7	255.5	260.8	262.0	260.8	255.5	249.7	238.2	224.4	206.2	191.0
80°	207.3	210.9	215.0	215.0	215.0	210.9	207.3	196.8	183.6	168.2	156.4
82.5°	163.8	166.7	170.9	170.4	170.9	166.7	163.8	155.5	144.5	134.2	123.4
85°	99.2	105.4	104.7	103.3	104.7	105.4	99.2	100.5	90.1	83.1	73.3
87.5°	49.6	50.4	51.8	52.9	51.8	50.4	49.6	47.7	42.7	39.7	37.2
90°	24.6	25.9	24.6	24.6	24.6	25.9	24.6	23.4	23.4	22.3	21.1
92.5°	100.7	94.3	90.4	90.4	90.4	94.3	100.7	114.5	138.0	173.4	230.5
95°	359.1	322.8	301.5	286.3	301.5	322.8	359.1	416.6	530.4	687.6	869.5
97.5°	895.5	825.0	789.7	765.4	789.7	825.0	895.5	979.9	1102.4	1217.1	1284.8
100°	1192.2	1120.6	1085.5	1076.1	1085.5	1120.6	1192.2	1294.3	1381.2	1438.7	1415.2
102.5°	1442.9	1391.0	1353.9	1346.5	1353.9	1391.0	1442.9	1505.5	1541.7	1525.0	1408.7
105°	1683.9	1674.6	1658.1	1651.0	1658.1	1674.6	1683.9	1681.5	1633.5	1517.3	1314.2
107.5°	1722.6	1749.4	1761.1	1764.2	1761.1	1749.4	1722.6	1664.7	1560.0	1396.4	1180.2
110°	1685.1	1734.3	1755.5	1766.1	1755.5	1734.3	1685.1	1601.7	1472.7	1302.5	1099.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1604.4	1664.0	1693.5	1710.7	1693.5	1664.0	1604.4	1509.7	1380.7	1219.9	1040.4
115°	1468.0	1538.4	1576.0	1585.4	1576.0	1538.4	1468.0	1375.3	1262.6	1125.4	981.0
117.5°	1353.9	1413.1	1451.1	1458.3	1451.1	1413.1	1353.9	1274.9	1179.3	1071.4	951.9
120°	1292.0	1343.6	1374.1	1387.0	1374.1	1343.6	1292.0	1225.1	1141.8	1047.9	938.8
122.5°	1247.9	1292.0	1317.8	1330.7	1317.8	1292.0	1247.9	1191.3	1118.3	1032.9	927.5
125°	1201.6	1235.7	1258.0	1265.0	1258.0	1235.7	1201.6	1154.7	1090.1	1009.2	908.3
127.5°	1170.4	1200.7	1219.5	1226.5	1219.5	1200.7	1170.4	1123.3	1062.0	981.3	884.7
130°	1148.8	1178.1	1196.9	1204.0	1196.9	1178.1	1148.8	1100.8	1038.5	958.8	866.1
132.5°	1120.6	1153.8	1171.5	1178.6	1171.5	1153.8	1120.6	1073.5	1011.3	933.4	846.3
135°	1072.6	1105.4	1124.2	1131.3	1124.2	1105.4	1072.6	1025.6	966.9	895.3	819.1
137.5°	1016.2	1048.6	1064.1	1072.6	1064.1	1048.6	1016.2	972.3	919.3	859.0	794.5
140°	978.7	1004.5	1020.9	1030.3	1020.9	1004.5	978.7	937.6	888.3	835.5	780.3
142.5°	940.2	964.1	978.7	985.2	978.7	964.1	940.2	903.8	861.1	815.8	767.2
145°	886.0	905.9	917.7	923.5	917.7	905.9	886.0	856.7	823.7	788.6	748.7
147.5°	840.7	857.8	866.8	868.8	866.8	857.8	840.7	819.1	793.2	765.1	733.5
150°	814.4	829.6	836.7	837.9	836.7	829.6	814.4	795.6	774.5	751.0	724.1
152.5°	791.8	804.3	808.5	809.7	808.5	804.3	791.8	775.9	758.5	736.9	713.7
155°	760.4	769.8	773.4	773.4	773.4	769.8	760.4	748.7	734.6	717.0	698.2
157.5°	732.3	739.3	741.4	741.4	741.4	739.3	732.3	723.4	712.1	697.3	681.6
160°	713.5	720.5	721.6	721.6	721.6	720.5	713.5	706.4	697.0	684.1	671.3
162.5°	695.6	702.7	703.9	702.9	703.9	702.7	695.6	690.4	682.1	672.0	660.9
165°	672.4	677.1	675.9	674.8	675.9	677.1	672.4	667.7	661.9	653.6	646.6
167.5°	650.6	653.6	653.4	652.5	653.4	653.6	650.6	648.2	644.7	638.1	632.8
170°	638.3	639.5	638.3	638.3	638.3	639.5	638.3	636.0	632.5	627.8	624.3
172.5°	626.1	627.3	626.1	624.3	626.1	627.3	626.1	624.7	622.2	619.4	616.7
175°	610.2	612.6	610.2	607.8	610.2	612.6	610.2	610.2	610.2	607.8	606.7
177.5°	601.1	602.0	600.1	598.2	600.1	602.0	601.1	602.0	601.1	601.1	600.1
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1611.0	1613.3	1622.1	1630.5	1640.6	1647.9	1652.8	1658.5	1670.2	1679.7	1688.6
5°	1509.3	1512.9	1531.0	1543.6	1565.2	1584.1	1598.7	1614.8	1633.7	1659.4	1683.1
7.5°	1419.9	1432.8	1452.7	1473.1	1495.1	1519.8	1541.4	1565.5	1598.0	1633.5	1670.0
10°	1369.1	1383.7	1404.6	1428.4	1449.4	1477.9	1504.5	1533.1	1570.0	1613.4	1656.7
12.5°	1318.2	1342.3	1358.3	1386.4	1409.1	1432.7	1460.9	1498.4	1541.6	1587.1	1639.3
15°	1254.6	1267.8	1298.5	1313.8	1345.9	1382.3	1410.2	1447.9	1489.8	1549.8	1608.5
17.5°	1181.1	1198.5	1222.9	1252.3	1289.2	1317.5	1352.3	1391.1	1443.9	1503.5	1576.9
20°	1133.1	1147.7	1177.7	1209.8	1248.9	1279.0	1316.0	1353.6	1408.2	1471.7	1548.4
22.5°	1090.0	1104.2	1135.9	1165.7	1203.7	1240.4	1279.1	1322.9	1375.1	1442.1	1520.6
25°	1023.5	1042.3	1070.3	1101.0	1137.2	1179.1	1221.0	1260.1	1316.0	1386.4	1470.3
27.5°	964.4	979.5	999.8	1034.6	1075.8	1116.3	1157.9	1207.1	1260.7	1335.2	1422.2
30°	926.5	940.4	960.6	992.7	1031.2	1074.4	1117.7	1165.2	1221.0	1295.1	1383.7
32.5°	896.3	906.9	924.8	953.6	988.7	1034.2	1076.9	1126.1	1184.7	1257.6	1344.0
35°	851.7	860.8	867.8	895.0	926.5	968.3	1011.6	1064.0	1120.4	1189.6	1276.2
37.5°	808.0	811.1	821.3	839.1	869.6	908.2	948.4	999.9	1057.8	1128.0	1206.1
40°	781.2	782.6	788.9	805.7	832.1	868.5	907.6	958.6	1013.7	1080.1	1157.5
42.5°	755.0	754.1	759.8	771.5	796.4	829.4	867.9	914.4	969.6	1030.9	1103.9
45°	713.5	713.5	712.1	721.9	742.1	774.3	806.4	851.0	897.1	957.2	1018.5
47.5°	670.2	666.3	667.5	672.6	689.6	716.0	748.4	785.0	825.6	876.5	930.3
50°	642.3	636.7	634.6	640.2	655.5	678.5	709.3	741.4	779.8	824.5	870.6
52.5°	611.6	606.0	602.2	606.1	620.4	641.7	669.6	697.8	732.4	768.6	808.6
55°	564.1	557.8	555.7	557.1	567.5	584.3	608.0	633.9	659.7	689.7	717.7
57.5°	517.4	507.0	505.0	504.3	511.6	526.9	546.7	569.2	587.9	606.1	635.8
60°	486.6	474.0	469.8	469.2	474.7	487.3	505.4	527.8	541.1	553.6	579.5
62.5°	453.6	441.6	432.4	433.4	438.4	450.4	466.4	482.5	491.3	505.0	522.5
65°	402.8	387.5	380.5	378.4	381.2	390.9	403.5	413.9	423.7	429.4	446.1
67.5°	352.0	339.1	328.8	326.3	325.1	331.7	342.0	348.4	355.4	360.2	370.1
70°	316.3	305.1	292.6	288.3	287.6	293.2	303.0	303.7	313.5	315.6	326.0
72.5°	281.0	267.1	258.4	254.3	251.4	256.3	262.8	264.6	269.9	273.7	279.1
75°	226.2	215.7	207.3	201.1	198.9	201.8	201.8	205.2	208.7	210.9	217.1
77.5°	178.0	166.0	156.1	152.5	150.0	148.1	149.7	151.8	150.1	153.7	155.1
80°	144.5	132.0	124.3	122.9	118.7	115.2	114.5	116.5	113.8	115.2	119.4
82.5°	111.6	103.5	95.2	93.8	88.6	86.7	86.0	84.7	84.7	84.4	85.3
85°	66.3	61.4	55.8	52.3	50.3	46.8	46.8	45.3	44.0	42.6	43.3
87.5°	30.8	29.9	26.7	24.5	23.4	19.8	19.8	17.9	17.1	15.8	14.7
90°	20.0	21.1	18.8	16.5	16.5	9.4	9.4	8.2	7.1	3.5	1.2
92.5°	310.0	372.2	325.8	237.0	146.0	86.3	62.0	44.8	30.5	19.5	13.3
95°	983.4	956.3	721.6	441.2	248.7	146.7	97.4	69.3	54.0	42.2	38.7
97.5°	1235.5	1007.3	675.4	396.7	237.7	159.2	117.9	93.6	79.6	69.5	69.5
100°	1243.9	943.4	612.6	373.1	240.5	171.4	133.8	111.5	97.4	89.2	89.2
102.5°	1173.5	863.6	570.3	366.6	249.9	187.3	151.6	130.3	117.1	109.9	108.0
105°	1045.5	769.8	533.9	369.6	272.3	215.9	181.9	160.8	146.7	140.8	137.3
107.5°	942.3	717.2	527.4	387.0	298.3	246.7	213.1	192.9	177.9	172.0	169.7
110°	890.7	699.4	529.3	400.1	318.0	266.4	234.7	213.6	199.4	193.6	191.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	861.5	690.9	534.8	414.2	336.8	287.0	255.4	234.2	221.1	214.3	212.0
115°	834.4	686.5	545.6	436.6	366.1	319.2	287.5	265.2	253.5	245.3	241.8
117.5°	822.1	685.3	557.1	459.3	394.6	349.9	317.1	296.2	283.3	276.0	272.7
120°	815.6	685.3	565.6	475.2	414.2	369.6	336.8	316.8	304.0	295.7	293.4
122.5°	808.1	684.4	574.1	490.3	433.0	388.4	356.5	334.7	322.8	314.5	312.1
125°	795.6	683.0	586.7	512.8	458.8	416.6	383.7	361.4	348.5	341.4	336.8
127.5°	778.9	680.3	596.8	532.3	482.7	441.9	408.8	385.6	370.8	362.3	358.6
130°	768.6	679.4	604.3	544.5	498.8	458.8	424.7	402.5	384.9	375.5	370.8
132.5°	759.2	678.5	610.9	556.7	511.9	472.0	439.8	415.7	399.0	386.8	383.0
135°	745.2	677.1	620.8	572.7	530.4	491.7	461.2	436.6	416.6	404.9	400.1
137.5°	733.0	676.8	626.6	583.9	544.5	508.4	479.3	453.6	434.6	421.7	417.3
140°	726.4	675.9	631.4	591.4	553.9	518.7	490.5	465.9	446.0	433.0	429.5
142.5°	720.7	675.9	635.1	597.0	562.3	528.1	500.8	477.2	458.1	446.2	442.6
145°	711.1	673.6	637.2	603.2	571.5	541.0	515.1	492.8	476.5	464.7	461.2
147.5°	702.5	669.3	638.3	608.5	580.9	552.2	529.0	510.5	493.5	483.2	482.0
150°	695.9	666.5	638.3	611.4	585.5	559.8	537.5	519.9	505.7	496.3	495.2
152.5°	688.3	661.9	636.5	613.3	589.4	566.3	545.9	530.2	517.1	507.7	507.4
155°	677.1	654.8	633.7	614.9	594.9	575.0	557.4	544.5	532.7	525.7	524.5
157.5°	665.6	647.5	630.7	614.9	599.0	582.1	568.2	556.9	547.8	541.2	541.2
160°	657.1	641.9	627.8	614.9	600.8	586.7	573.8	564.4	556.2	551.5	551.5
162.5°	649.6	636.2	625.0	614.9	602.7	589.6	579.5	571.0	563.7	560.0	560.9
165°	637.2	627.8	619.6	612.6	603.2	592.6	585.5	579.7	573.8	571.5	571.5
167.5°	625.9	619.4	614.0	609.8	602.9	595.2	589.8	586.5	582.1	580.9	582.1
170°	618.4	613.7	610.2	607.8	602.0	596.1	592.6	590.3	586.7	585.5	586.7
172.5°	611.9	608.0	606.4	606.0	601.1	597.0	594.5	593.1	590.5	590.3	591.4
175°	604.3	602.0	602.0	603.2	599.7	597.3	597.3	596.1	594.9	594.9	596.1
177.5°	599.2	598.2	598.2	600.1	598.2	597.3	597.3	597.3	596.3	597.3	598.2
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



TEST NUMBER: P332663-840

CATALOG NUMBER: SA4XXDIP-C1020D1205U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1696.5	1702.0	1709.3	1721.6	1726.1	1731.6	1739.5	1738.9	1741.1	1749.5	1767.4
5°	1702.7	1724.3	1745.3	1770.5	1797.0	1814.4	1838.2	1852.8	1867.4	1886.3	1918.4
7.5°	1705.3	1739.6	1778.0	1822.1	1861.4	1906.6	1941.9	1975.1	2005.2	2045.0	2083.3
10°	1701.3	1747.4	1797.0	1852.8	1912.2	1962.5	2007.8	2059.5	2103.4	2151.6	2194.9
12.5°	1694.0	1749.7	1815.9	1878.6	1947.9	2022.2	2078.7	2130.9	2189.5	2244.9	2311.7
15°	1677.6	1753.7	1831.2	1913.6	2006.4	2092.2	2173.9	2241.7	2304.5	2387.6	2474.9
17.5°	1656.7	1738.8	1836.4	1936.2	2033.3	2131.4	2232.5	2334.3	2413.6	2516.8	2585.1
20°	1637.1	1732.0	1832.6	1951.3	2048.3	2170.5	2271.0	2369.4	2478.3	2581.0	2662.6
22.5°	1609.7	1713.6	1820.3	1938.4	2066.2	2188.4	2304.5	2411.4	2520.2	2631.8	2730.8
25°	1575.0	1669.2	1795.5	1929.7	2056.7	2189.3	2322.7	2456.7	2573.9	2692.0	2784.1
27.5°	1515.8	1634.8	1752.4	1890.8	2031.9	2182.0	2324.6	2465.0	2587.8	2684.8	2742.0
30°	1485.6	1588.9	1716.7	1855.6	2008.5	2169.8	2318.4	2456.0	2570.5	2648.0	2671.0
32.5°	1441.0	1547.6	1672.5	1816.5	1978.3	2144.0	2299.0	2428.6	2524.2	2564.8	2537.0
35°	1374.6	1471.0	1597.3	1744.6	1912.9	2089.5	2242.4	2352.0	2400.9	2362.5	2266.8
37.5°	1295.1	1390.5	1517.4	1662.1	1836.2	2015.8	2154.0	2232.9	2216.7	2121.2	1978.6
40°	1239.2	1328.6	1449.4	1605.7	1775.3	1955.4	2076.9	2119.5	2074.9	1938.0	1786.6
42.5°	1177.2	1264.4	1385.6	1536.4	1716.2	1882.3	1988.1	1991.7	1916.7	1753.1	1601.0
45°	1082.8	1165.9	1280.4	1437.4	1603.6	1760.0	1829.8	1795.5	1657.4	1499.5	1346.7
47.5°	989.7	1061.7	1174.6	1323.6	1481.5	1613.1	1647.7	1586.1	1438.9	1285.7	1144.0
50°	921.5	994.1	1100.2	1242.6	1394.8	1508.6	1525.4	1443.7	1299.2	1144.9	1033.9
52.5°	856.2	928.3	1030.5	1162.3	1301.6	1404.2	1404.7	1310.2	1166.3	1028.7	925.5
55°	760.2	825.2	917.4	1035.3	1159.6	1239.9	1220.3	1122.6	997.6	878.3	788.2
57.5°	667.8	724.4	809.3	907.7	1017.1	1083.4	1051.0	956.8	845.3	744.1	675.8
60°	608.0	661.9	734.5	827.3	919.5	971.1	940.4	855.2	752.6	670.9	611.6
62.5°	550.0	595.3	665.2	745.8	831.2	869.5	842.1	758.0	669.3	595.5	547.3
65°	467.8	504.7	560.6	629.8	691.9	724.7	701.7	623.4	555.7	502.6	464.2
67.5°	390.9	419.9	462.1	517.6	570.4	588.1	567.1	512.7	455.3	412.8	385.8
70°	337.9	365.2	400.7	443.3	489.4	508.3	487.3	444.0	397.3	358.1	331.6
72.5°	291.5	312.7	342.6	379.1	415.2	433.9	419.7	378.1	338.6	309.5	286.9
75°	222.0	240.1	261.1	286.9	314.9	327.4	314.9	286.2	259.0	237.3	221.3
77.5°	161.4	171.2	187.3	206.6	224.1	233.7	222.9	203.4	186.8	172.0	164.1
80°	122.9	129.9	141.0	156.4	168.2	177.3	170.4	154.3	141.0	131.3	127.7
82.5°	89.4	94.1	101.4	112.8	120.8	125.4	122.3	110.7	105.2	96.6	93.1
85°	44.0	46.8	51.7	55.1	62.1	62.8	63.5	58.7	53.7	51.7	48.9
87.5°	15.8	17.1	19.0	20.9	23.1	25.0	24.5	24.9	23.2	22.4	20.4
90°	3.5	7.1	8.2	9.4	9.4	16.5	16.5	18.8	21.1	20.0	21.1
92.5°	19.5	30.5	44.8	62.0	86.3	146.0	237.0	325.8	372.2	310.0	230.5
95°	42.2	54.0	69.3	97.4	146.7	248.7	441.2	721.6	956.3	983.4	869.5
97.5°	69.5	79.6	93.6	117.9	159.2	237.7	396.7	675.4	1007.3	1235.5	1284.8
100°	89.2	97.4	111.5	133.8	171.4	240.5	373.1	612.6	943.4	1243.9	1415.2
102.5°	109.9	117.1	130.3	151.6	187.3	249.9	366.6	570.3	863.6	1173.5	1408.7
105°	140.8	146.7	160.8	181.9	215.9	272.3	369.6	533.9	769.8	1045.5	1314.2
107.5°	172.0	177.9	192.9	213.1	246.7	298.3	387.0	527.4	717.2	942.3	1180.2
110°	193.6	199.4	213.6	234.7	266.4	318.0	400.1	529.3	699.4	890.7	1099.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	214.3	221.1	234.2	255.4	287.0	336.8	414.2	534.8	690.9	861.5	1040.4
115°	245.3	253.5	265.2	287.5	319.2	366.1	436.6	545.6	686.5	834.4	981.0
117.5°	276.0	283.3	296.2	317.1	349.9	394.6	459.3	557.1	685.3	822.1	951.9
120°	295.7	304.0	316.8	336.8	369.6	414.2	475.2	565.6	685.3	815.6	938.8
122.5°	314.5	322.8	334.7	356.5	388.4	433.0	490.3	574.1	684.4	808.1	927.5
125°	341.4	348.5	361.4	383.7	416.6	458.8	512.8	586.7	683.0	795.6	908.3
127.5°	362.3	370.8	385.6	408.8	441.9	482.7	532.3	596.8	680.3	778.9	884.7
130°	375.5	384.9	402.5	424.7	458.8	498.8	544.5	604.3	679.4	768.6	866.1
132.5°	386.8	399.0	415.7	439.8	472.0	511.9	556.7	610.9	678.5	759.2	846.3
135°	404.9	416.6	436.6	461.2	491.7	530.4	572.7	620.8	677.1	745.2	819.1
137.5°	421.7	434.6	453.6	479.3	508.4	544.5	583.9	626.6	676.8	733.0	794.5
140°	433.0	446.0	465.9	490.5	518.7	553.9	591.4	631.4	675.9	726.4	780.3
142.5°	446.2	458.1	477.2	500.8	528.1	562.3	597.0	635.1	675.9	720.7	767.2
145°	464.7	476.5	492.8	515.1	541.0	571.5	603.2	637.2	673.6	711.1	748.7
147.5°	483.2	493.5	510.5	529.0	552.2	580.9	608.5	638.3	669.3	702.5	733.5
150°	496.3	505.7	519.9	537.5	559.8	585.5	611.4	638.3	666.5	695.9	724.1
152.5°	507.7	517.1	530.2	545.9	566.3	589.4	613.3	636.5	661.9	688.3	713.7
155°	525.7	532.7	544.5	557.4	575.0	594.9	614.9	633.7	654.8	677.1	698.2
157.5°	541.2	547.8	556.9	568.2	582.1	599.0	614.9	630.7	647.5	665.6	681.6
160°	551.5	556.2	564.4	573.8	586.7	600.8	614.9	627.8	641.9	657.1	671.3
162.5°	560.0	563.7	571.0	579.5	589.6	602.7	614.9	625.0	636.2	649.6	660.9
165°	571.5	573.8	579.7	585.5	592.6	603.2	612.6	619.6	627.8	637.2	646.6
167.5°	580.9	582.1	586.5	589.8	595.2	602.9	609.8	614.0	619.4	625.9	632.8
170°	585.5	586.7	590.3	592.6	596.1	602.0	607.8	610.2	613.7	618.4	624.3
172.5°	590.3	590.5	593.1	594.5	597.0	601.1	606.0	606.4	608.0	611.9	616.7
175°	594.9	594.9	596.1	597.3	597.3	599.7	603.2	602.0	602.0	604.3	606.7
177.5°	597.3	596.3	597.3	597.3	597.3	598.2	600.1	598.2	598.2	599.2	600.1
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1776.4	1777.5	1782.4	1786.4	1787.5	1793.1	1793.6
5°	1932.4	1944.3	1967.3	1969.4	1972.9	1991.0	1977.1
7.5°	2115.4	2145.5	2165.6	2183.3	2189.8	2197.7	2196.1
10°	2232.6	2277.2	2299.7	2335.2	2336.6	2345.7	2340.2
12.5°	2350.5	2402.4	2443.2	2449.7	2479.6	2484.2	2492.0
15°	2517.4	2572.6	2629.2	2649.4	2690.6	2700.4	2715.7
17.5°	2674.4	2730.8	2770.5	2822.8	2839.7	2862.4	2846.9
20°	2760.4	2821.9	2872.1	2913.3	2930.7	2943.3	2941.9
22.5°	2812.4	2874.3	2915.1	2946.2	2962.5	2967.9	2967.6
25°	2844.9	2880.4	2893.1	2904.9	2886.8	2880.4	2883.3
27.5°	2754.4	2745.2	2712.4	2669.4	2624.6	2589.2	2569.9
30°	2629.9	2575.4	2525.8	2439.2	2394.6	2368.0	2344.3
32.5°	2453.4	2367.0	2271.7	2192.4	2141.6	2102.2	2096.4
35°	2150.9	2021.0	1904.5	1807.5	1757.2	1714.5	1704.9
37.5°	1828.7	1693.7	1588.8	1503.4	1449.4	1419.3	1391.2
40°	1614.8	1498.8	1395.5	1322.9	1281.7	1260.1	1242.6
42.5°	1450.0	1344.1	1241.4	1186.1	1148.8	1135.6	1125.4
45°	1222.4	1124.0	1052.8	1010.9	989.3	966.9	956.4
47.5°	1040.2	960.1	913.1	877.6	854.3	841.1	834.4
50°	936.9	871.2	829.4	802.1	781.2	770.7	765.2
52.5°	845.3	791.4	756.2	734.6	720.3	712.7	710.4
55°	728.1	686.9	664.6	645.8	635.3	628.3	625.5
57.5°	632.9	601.3	583.1	567.5	563.5	557.6	555.7
60°	570.4	545.9	530.6	520.1	516.6	509.7	511.0
62.5°	515.0	495.1	482.0	475.9	471.4	465.5	467.5
65°	435.7	421.0	413.9	408.4	402.8	399.3	402.1
67.5°	365.6	355.5	346.0	342.7	340.0	339.4	336.5
70°	319.7	311.3	303.0	300.9	300.9	298.1	297.4
72.5°	275.6	269.4	263.9	262.4	260.1	261.3	258.3
75°	212.9	208.0	205.9	203.9	203.2	203.2	201.1
77.5°	157.3	153.7	150.4	150.4	147.8	146.9	146.6
80°	119.4	118.0	115.2	115.2	113.8	114.5	113.1
82.5°	89.8	87.9	87.3	86.1	84.2	84.3	82.9
85°	48.2	46.0	45.3	43.3	41.9	43.3	41.9
87.5°	21.2	20.9	20.3	19.5	19.1	18.9	17.2
90°	22.3	23.4	23.4	24.6	25.9	24.6	24.6
92.5°	173.4	138.0	114.5	100.7	94.3	90.4	90.4
95°	687.6	530.4	416.6	359.1	322.8	301.5	286.3
97.5°	1217.1	1102.4	979.9	895.5	825.0	789.7	765.4
100°	1438.7	1381.2	1294.3	1192.2	1120.6	1085.5	1076.1
102.5°	1525.0	1541.7	1505.5	1442.9	1391.0	1353.9	1346.5
105°	1517.3	1633.5	1681.5	1683.9	1674.6	1658.1	1651.0
107.5°	1396.4	1560.0	1664.7	1722.6	1749.4	1761.1	1764.2
110°	1302.5	1472.7	1601.7	1685.1	1734.3	1755.5	1766.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1219.9	1380.7	1509.7	1604.4	1664.0	1693.5	1710.7
115°	1125.4	1262.6	1375.3	1468.0	1538.4	1576.0	1585.4
117.5°	1071.4	1179.3	1274.9	1353.9	1413.1	1451.1	1458.3
120°	1047.9	1141.8	1225.1	1292.0	1343.6	1374.1	1387.0
122.5°	1032.9	1118.3	1191.3	1247.9	1292.0	1317.8	1330.7
125°	1009.2	1090.1	1154.7	1201.6	1235.7	1258.0	1265.0
127.5°	981.3	1062.0	1123.3	1170.4	1200.7	1219.5	1226.5
130°	958.8	1038.5	1100.8	1148.8	1178.1	1196.9	1204.0
132.5°	933.4	1011.3	1073.5	1120.6	1153.8	1171.5	1178.6
135°	895.3	966.9	1025.6	1072.6	1105.4	1124.2	1131.3
137.5°	859.0	919.3	972.3	1016.2	1048.6	1064.1	1072.6
140°	835.5	888.3	937.6	978.7	1004.5	1020.9	1030.3
142.5°	815.8	861.1	903.8	940.2	964.1	978.7	985.2
145°	788.6	823.7	856.7	886.0	905.9	917.7	923.5
147.5°	765.1	793.2	819.1	840.7	857.8	866.8	868.8
150°	751.0	774.5	795.6	814.4	829.6	836.7	837.9
152.5°	736.9	758.5	775.9	791.8	804.3	808.5	809.7
155°	717.0	734.6	748.7	760.4	769.8	773.4	773.4
157.5°	697.3	712.1	723.4	732.3	739.3	741.4	741.4
160°	684.1	697.0	706.4	713.5	720.5	721.6	721.6
162.5°	672.0	682.1	690.4	695.6	702.7	703.9	702.9
165°	653.6	661.9	667.7	672.4	677.1	675.9	674.8
167.5°	638.1	644.7	648.2	650.6	653.6	653.4	652.5
170°	627.8	632.5	636.0	638.3	639.5	638.3	638.3
172.5°	619.4	622.2	624.7	626.1	627.3	626.1	624.3
175°	607.8	610.2	610.2	610.2	612.6	610.2	607.8
177.5°	601.1	601.1	602.0	601.1	602.0	600.1	598.2
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3

(END OF REPORT)