

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: P332661-840

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

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332661-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1020D1205U840-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

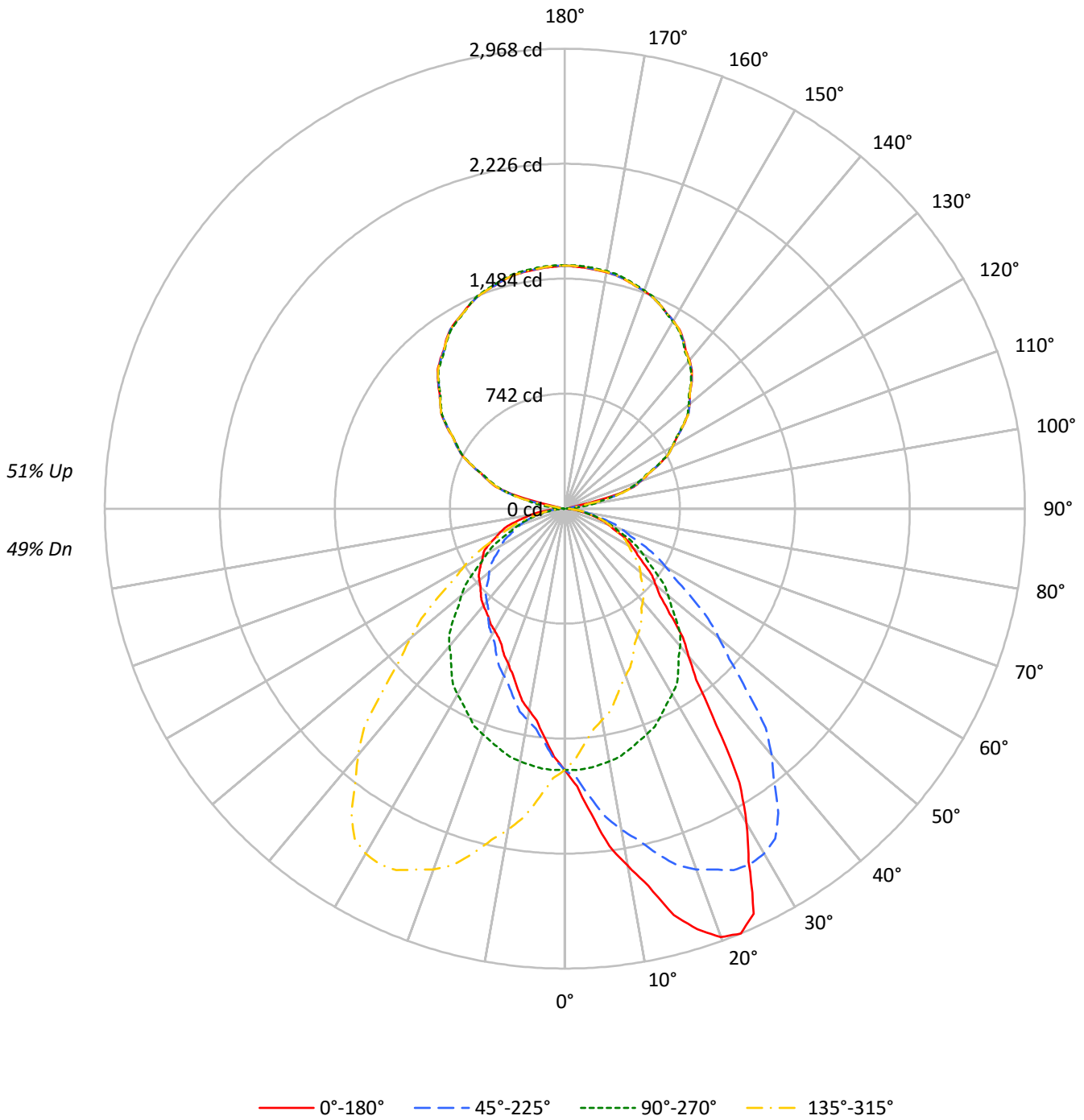
Lumens per Lamp: N/A
Luminaire Lumens: 9507.2 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35
3	81	72	65	59	75	67	61	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	38	35	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	29	25	23	20
7	58	46	38	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	28	34	28	24	29	25	21	24	21	18	16
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15	13

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	1.7
10°-20°	506.1	5.3
20°-30°	802.5	8.4
30°-40°	893.1	9.4
40°-50°	812.9	8.6
50°-60°	664.3	7.0
60°-70°	474.2	5.0
70°-80°	261.1	2.7
80°-90°	75.8	0.8
90°-100°	53.7	0.6
100°-110°	342.1	3.6
110°-120°	654.5	6.9
120°-130°	830.8	8.7
130°-140°	888.9	9.3
140°-150°	831.2	8.7
150°-160°	670.3	7.1
160°-170°	432.4	4.5
170°-180°	149.0	1.6
0°-30°	1472.7	15.5
0°-40°	2365.8	24.9
0°-60°	3843.0	40.4
0°-90°	4654.3	49.0
90°-120°	1050.3	11.0
90°-150°	3601.3	37.9
90°-180°	4853.0	51.0
0°-180°	9507.2	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°	35	4	35	4	35	17
95°	34	64	34	64	34	27
105°	334	353	334	353	334	292
115°	664	659	664	659	664	657
125°	934	927	934	927	934	832
135°	1158	1150	1158	1150	1158	891
145°	1333	1326	1333	1326	1333	833
155°	1453	1454	1453	1454	1453	670
165°	1527	1534	1527	1534	1527	431
175°	1559	1569	1559	1569	1559	149
180°	1569	1569	1569	1569	1569	



TEST NUMBER: P332661-840
 CATALOG NUMBER: SA4XXDIP-C1020D1205U840-4F0-1E-UDD-A

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°	19.3	20.9	20.8	21.2	22.2	22.6	22.8	22.0	23.9	24.1	26.0
90°	35.2	34.6	34.1	33.6	33.1	32.1	30.5	29.0	27.4	25.9	23.7
92.5°	32.4	32.3	32.2	32.1	32.0	31.1	29.6	28.0	26.5	24.8	22.8
95°	34.0	33.7	33.5	33.2	33.0	32.1	30.5	29.0	27.4	25.9	25.5
97.5°	32.8	32.6	32.3	32.1	31.8	31.6	31.4	31.3	31.1	31.0	60.1
100°	32.8	32.6	32.3	32.1	31.8	33.9	38.4	42.7	47.2	51.6	87.7
102.5°	33.8	33.7	33.7	33.6	33.6	57.5	105.3	153.1	201.0	248.7	253.5
105°	334.5	343.9	353.1	362.5	371.9	375.5	373.1	370.8	368.5	366.1	364.8
107.5°	466.1	465.0	464.1	463.1	462.1	461.0	459.9	458.8	457.6	456.5	454.6
110°	523.3	522.6	521.8	521.0	520.2	519.6	519.1	518.6	518.0	517.5	515.9



TEST NUMBER: P332661-840

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	580.6	579.7	578.7	577.6	576.6	576.2	576.3	576.4	576.5	576.6	575.9
115°	664.2	664.2	664.2	664.2	664.2	663.9	663.4	662.9	662.4	661.8	662.1
117.5°	749.1	749.2	749.3	749.4	749.5	749.6	749.7	749.8	749.9	750.0	749.5
120°	802.6	803.1	803.7	804.2	804.7	804.7	804.2	803.7	803.1	802.6	802.8
122.5°	855.2	855.7	856.3	856.8	857.3	857.4	857.1	856.8	856.5	856.2	855.8
125°	934.0	933.8	933.5	933.2	933.0	932.5	931.7	930.9	930.1	929.4	929.9
127.5°	1003.3	1003.5	1003.7	1003.9	1004.1	1004.3	1004.4	1004.6	1004.7	1004.9	1003.7
130°	1050.2	1050.2	1050.2	1050.2	1050.2	1050.1	1049.9	1049.6	1049.2	1049.0	1048.2
132.5°	1093.4	1093.6	1093.8	1094.0	1094.2	1094.2	1094.0	1093.7	1093.4	1093.2	1092.2
135°	1158.1	1157.6	1157.1	1156.6	1156.1	1155.6	1155.0	1154.5	1154.0	1153.5	1152.5
137.5°	1213.6	1213.7	1213.9	1214.1	1214.2	1214.0	1213.4	1212.8	1212.2	1211.6	1210.5
140°	1252.0	1251.7	1251.5	1251.2	1251.0	1250.5	1249.7	1248.9	1248.1	1247.4	1246.8
142.5°	1283.9	1283.9	1283.8	1283.8	1283.7	1283.4	1282.8	1282.3	1281.7	1281.1	1280.8
145°	1333.0	1332.5	1331.9	1331.4	1330.9	1330.5	1330.3	1330.0	1329.8	1329.5	1329.5
147.5°	1373.6	1373.3	1373.1	1372.8	1372.5	1372.3	1372.1	1371.9	1371.7	1371.5	1371.7
150°	1399.9	1399.7	1399.4	1399.1	1398.9	1398.7	1398.7	1398.7	1398.7	1398.7	1399.0
152.5°	1422.4	1422.6	1422.7	1422.9	1423.0	1422.9	1422.5	1422.1	1421.7	1421.3	1421.7
155°	1452.7	1453.5	1454.2	1455.0	1455.8	1455.7	1454.6	1453.6	1452.6	1451.5	1452.3
157.5°	1478.0	1479.4	1480.8	1482.1	1483.5	1483.5	1482.1	1480.8	1479.4	1478.0	1478.9
160°	1494.9	1496.5	1498.0	1499.6	1501.2	1501.2	1499.6	1498.0	1496.5	1494.9	1495.2
162.5°	1508.0	1509.8	1511.7	1513.4	1515.2	1515.3	1513.7	1512.2	1510.6	1509.0	1509.2
165°	1526.6	1528.9	1531.3	1533.7	1536.0	1536.1	1534.1	1532.0	1529.8	1527.8	1527.8
167.5°	1540.4	1543.1	1545.7	1548.3	1550.8	1551.1	1548.7	1546.5	1544.2	1541.9	1542.1
170°	1548.9	1551.6	1554.1	1556.7	1559.3	1559.6	1557.5	1555.4	1553.4	1551.3	1551.0
172.5°	1553.6	1556.4	1559.2	1562.1	1564.9	1565.2	1563.2	1561.0	1558.9	1556.9	1556.6
175°	1559.4	1562.6	1565.7	1568.8	1572.0	1572.4	1570.0	1567.7	1565.3	1563.0	1562.8
177.5°	1563.3	1565.7	1568.2	1570.7	1573.3	1573.7	1572.0	1570.3	1568.6	1567.0	1566.6
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8



TEST NUMBER: P332661-840

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

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°	25.5	25.7	24.7	22.0	19.7	17.5	16.4	15.2	16.4	17.5	18.6
90°	21.6	19.6	17.5	14.9	12.1	9.3	6.4	3.5	6.4	9.3	12.1
92.5°	20.7	18.6	16.6	15.5	15.2	15.1	14.9	14.7	14.9	15.1	15.2
95°	25.2	25.0	24.7	29.1	38.0	46.8	55.6	64.5	55.6	46.8	38.0
97.5°	89.2	118.3	147.3	159.2	153.6	148.1	142.6	137.0	142.6	148.1	153.6
100°	123.6	159.6	195.6	211.3	206.5	201.9	197.1	192.5	197.1	201.9	206.5
102.5°	258.1	262.9	267.5	268.1	264.7	261.3	257.8	254.4	257.8	261.3	264.7
105°	363.5	362.2	360.9	359.4	357.9	356.3	354.8	353.1	354.8	356.3	357.9
107.5°	452.9	451.1	449.4	448.1	447.3	446.6	445.8	444.9	445.8	446.6	447.3
110°	514.3	512.8	511.2	510.1	509.3	508.5	507.7	507.0	507.7	508.5	509.3



TEST NUMBER: P332661-840

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	575.1	574.4	573.7	572.6	571.2	569.8	568.5	567.0	568.5	569.8	571.2
115°	662.4	662.6	662.9	662.6	661.8	661.1	660.2	659.4	660.2	661.1	661.8
117.5°	748.9	748.3	747.7	746.9	745.9	744.9	743.8	742.8	743.8	744.9	745.9
120°	803.1	803.4	803.7	803.2	802.2	801.2	800.1	799.1	800.1	801.2	802.2
122.5°	855.4	855.1	854.6	854.1	853.5	852.9	852.3	851.6	852.3	852.9	853.5
125°	930.4	930.9	931.4	931.2	930.1	929.1	928.1	927.0	928.1	929.1	930.1
127.5°	1002.5	1001.3	1000.1	999.4	999.2	998.9	998.6	998.4	998.6	998.9	999.2
130°	1047.4	1046.7	1045.9	1045.4	1045.1	1044.9	1044.6	1044.3	1044.6	1044.9	1045.1
132.5°	1091.2	1090.1	1089.2	1088.4	1088.0	1087.5	1087.0	1086.6	1087.0	1087.5	1088.0
135°	1151.3	1150.3	1149.3	1148.9	1149.1	1149.4	1149.7	1149.9	1149.7	1149.4	1149.1
137.5°	1209.4	1208.2	1207.1	1206.5	1206.4	1206.3	1206.2	1206.1	1206.2	1206.3	1206.4
140°	1246.3	1245.8	1245.3	1244.8	1244.3	1243.6	1243.1	1242.6	1243.1	1243.6	1244.3
142.5°	1280.5	1280.2	1279.9	1279.3	1278.3	1277.4	1276.5	1275.5	1276.5	1277.4	1278.3
145°	1329.5	1329.5	1329.5	1329.1	1328.3	1327.6	1326.8	1326.0	1326.8	1327.6	1328.3
147.5°	1372.0	1372.3	1372.5	1371.9	1370.5	1369.0	1367.6	1366.0	1367.6	1369.0	1370.5
150°	1399.3	1399.5	1399.8	1399.4	1398.4	1397.2	1396.2	1395.2	1396.2	1397.2	1398.4
152.5°	1422.2	1422.7	1423.1	1422.9	1422.1	1421.3	1420.5	1419.6	1420.5	1421.3	1422.1
155°	1453.1	1453.9	1454.6	1454.9	1454.6	1454.4	1454.1	1453.9	1454.1	1454.4	1454.6
157.5°	1479.9	1480.7	1481.6	1482.1	1482.3	1482.4	1482.6	1482.7	1482.6	1482.4	1482.3
160°	1495.4	1495.7	1496.0	1496.5	1497.3	1498.0	1498.8	1499.6	1498.8	1498.0	1497.3
162.5°	1509.5	1509.7	1510.1	1510.7	1511.7	1512.7	1513.7	1514.6	1513.7	1512.7	1511.7
165°	1527.8	1527.8	1527.8	1528.4	1529.7	1531.1	1532.4	1533.7	1532.4	1531.1	1529.7
167.5°	1542.2	1542.4	1542.5	1543.3	1544.6	1546.0	1547.3	1548.6	1547.3	1546.0	1544.6
170°	1550.7	1550.4	1550.2	1550.8	1552.5	1554.0	1555.6	1557.1	1555.6	1554.0	1552.5
172.5°	1556.4	1556.1	1555.8	1556.5	1558.0	1559.6	1561.2	1562.8	1561.2	1559.6	1558.0
175°	1562.5	1562.2	1562.0	1562.6	1564.2	1565.7	1567.3	1568.8	1567.3	1565.7	1564.2
177.5°	1566.1	1565.7	1565.3	1565.8	1567.3	1568.7	1570.2	1571.7	1570.2	1568.7	1567.3
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8



TEST NUMBER: P332661-840

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

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°	20.9	21.4	24.0	25.5	27.7	30.9	32.3	38.8	41.3	44.4	49.6
90°	14.9	17.5	19.6	21.6	23.7	25.9	27.4	29.0	30.5	32.1	33.1
92.5°	15.5	16.6	18.6	20.7	22.8	24.8	26.5	28.0	29.6	31.1	32.0
95°	29.1	24.7	25.0	25.2	25.5	25.9	27.4	29.0	30.5	32.1	33.0
97.5°	159.2	147.3	118.3	89.2	60.1	31.0	31.1	31.3	31.4	31.6	31.8
100°	211.3	195.6	159.6	123.6	87.7	51.6	47.2	42.7	38.4	33.9	31.8
102.5°	268.1	267.5	262.9	258.1	253.5	248.7	201.0	153.1	105.3	57.5	33.6
105°	359.4	360.9	362.2	363.5	364.8	366.1	368.5	370.8	373.1	375.5	371.9
107.5°	448.1	449.4	451.1	452.9	454.6	456.5	457.6	458.8	459.9	461.0	462.1
110°	510.1	511.2	512.8	514.3	515.9	517.5	518.0	518.6	519.1	519.6	520.2



TEST NUMBER: P332661-840

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	572.6	573.7	574.4	575.1	575.9	576.6	576.5	576.4	576.3	576.2	576.6
115°	662.6	662.9	662.6	662.4	662.1	661.8	662.4	662.9	663.4	663.9	664.2
117.5°	746.9	747.7	748.3	748.9	749.5	750.0	749.9	749.8	749.7	749.6	749.5
120°	803.2	803.7	803.4	803.1	802.8	802.6	803.1	803.7	804.2	804.7	804.7
122.5°	854.1	854.6	855.1	855.4	855.8	856.2	856.5	856.8	857.1	857.4	857.3
125°	931.2	931.4	930.9	930.4	929.9	929.4	930.1	930.9	931.7	932.5	933.0
127.5°	999.4	1000.1	1001.3	1002.5	1003.7	1004.9	1004.7	1004.6	1004.4	1004.3	1004.1
130°	1045.4	1045.9	1046.7	1047.4	1048.2	1049.0	1049.2	1049.6	1049.9	1050.1	1050.2
132.5°	1088.4	1089.2	1090.1	1091.2	1092.2	1093.2	1093.4	1093.7	1094.0	1094.2	1094.2
135°	1148.9	1149.3	1150.3	1151.3	1152.5	1153.5	1154.0	1154.5	1155.0	1155.6	1156.1
137.5°	1206.5	1207.1	1208.2	1209.4	1210.5	1211.6	1212.2	1212.8	1213.4	1214.0	1214.2
140°	1244.8	1245.3	1245.8	1246.3	1246.8	1247.4	1248.1	1248.9	1249.7	1250.5	1251.0
142.5°	1279.3	1279.9	1280.2	1280.5	1280.8	1281.1	1281.7	1282.3	1282.8	1283.4	1283.7
145°	1329.1	1329.5	1329.5	1329.5	1329.5	1329.5	1329.8	1330.0	1330.3	1330.5	1330.9
147.5°	1371.9	1372.5	1372.3	1372.0	1371.7	1371.5	1371.7	1371.9	1372.1	1372.3	1372.5
150°	1399.4	1399.8	1399.5	1399.3	1399.0	1398.7	1398.7	1398.7	1398.7	1398.7	1398.9
152.5°	1422.9	1423.1	1422.7	1422.2	1421.7	1421.3	1421.7	1422.1	1422.5	1422.9	1423.0
155°	1454.9	1454.6	1453.9	1453.1	1452.3	1451.5	1452.6	1453.6	1454.6	1455.7	1455.8
157.5°	1482.1	1481.6	1480.7	1479.9	1478.9	1478.0	1479.4	1480.8	1482.1	1483.5	1483.5
160°	1496.5	1496.0	1495.7	1495.4	1495.2	1494.9	1496.5	1498.0	1499.6	1501.2	1501.2
162.5°	1510.7	1510.1	1509.7	1509.5	1509.2	1509.0	1510.6	1512.2	1513.7	1515.3	1515.2
165°	1528.4	1527.8	1527.8	1527.8	1527.8	1527.8	1529.8	1532.0	1534.1	1536.1	1536.0
167.5°	1543.3	1542.5	1542.4	1542.2	1542.1	1541.9	1544.2	1546.5	1548.7	1551.1	1550.8
170°	1550.8	1550.2	1550.4	1550.7	1551.0	1551.3	1553.4	1555.4	1557.5	1559.6	1559.3
172.5°	1556.5	1555.8	1556.1	1556.4	1556.6	1556.9	1558.9	1561.0	1563.2	1565.2	1564.9
175°	1562.6	1562.0	1562.2	1562.5	1562.8	1563.0	1565.3	1567.7	1570.0	1572.4	1572.0
177.5°	1565.8	1565.3	1565.7	1566.1	1566.6	1567.0	1568.6	1570.3	1572.0	1573.7	1573.3
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8



TEST NUMBER: P332661-840

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

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°	51.4	52.1	53.8	55.0	53.8	52.1	51.4	49.6	44.4	41.3	38.8
90°	33.6	34.1	34.6	35.2	34.6	34.1	33.6	33.1	32.1	30.5	29.0
92.5°	32.1	32.2	32.3	32.4	32.3	32.2	32.1	32.0	31.1	29.6	28.0
95°	33.2	33.5	33.7	34.0	33.7	33.5	33.2	33.0	32.1	30.5	29.0
97.5°	32.1	32.3	32.6	32.8	32.6	32.3	32.1	31.8	31.6	31.4	31.3
100°	32.1	32.3	32.6	32.8	32.6	32.3	32.1	31.8	33.9	38.4	42.7
102.5°	33.6	33.7	33.7	33.8	33.7	33.7	33.6	33.6	57.5	105.3	153.1
105°	362.5	353.1	343.9	334.5	343.9	353.1	362.5	371.9	375.5	373.1	370.8
107.5°	463.1	464.1	465.0	466.1	465.0	464.1	463.1	462.1	461.0	459.9	458.8
110°	521.0	521.8	522.6	523.3	522.6	521.8	521.0	520.2	519.6	519.1	518.6



TEST NUMBER: P332661-840

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	577.6	578.7	579.7	580.6	579.7	578.7	577.6	576.6	576.2	576.3	576.4
115°	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2	663.9	663.4	662.9
117.5°	749.4	749.3	749.2	749.1	749.2	749.3	749.4	749.5	749.6	749.7	749.8
120°	804.2	803.7	803.1	802.6	803.1	803.7	804.2	804.7	804.7	804.2	803.7
122.5°	856.8	856.3	855.7	855.2	855.7	856.3	856.8	857.3	857.4	857.1	856.8
125°	933.2	933.5	933.8	934.0	933.8	933.5	933.2	933.0	932.5	931.7	930.9
127.5°	1003.9	1003.7	1003.5	1003.3	1003.5	1003.7	1003.9	1004.1	1004.3	1004.4	1004.6
130°	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.1	1049.9	1049.6
132.5°	1094.0	1093.8	1093.6	1093.4	1093.6	1093.8	1094.0	1094.2	1094.2	1094.0	1093.7
135°	1156.6	1157.1	1157.6	1158.1	1157.6	1157.1	1156.6	1156.1	1155.6	1155.0	1154.5
137.5°	1214.1	1213.9	1213.7	1213.6	1213.7	1213.9	1214.1	1214.2	1214.0	1213.4	1212.8
140°	1251.2	1251.5	1251.7	1252.0	1251.7	1251.5	1251.2	1251.0	1250.5	1249.7	1248.9
142.5°	1283.8	1283.8	1283.9	1283.9	1283.9	1283.8	1283.8	1283.7	1283.4	1282.8	1282.3
145°	1331.4	1331.9	1332.5	1333.0	1332.5	1331.9	1331.4	1330.9	1330.5	1330.3	1330.0
147.5°	1372.8	1373.1	1373.3	1373.6	1373.3	1373.1	1372.8	1372.5	1372.3	1372.1	1371.9
150°	1399.1	1399.4	1399.7	1399.9	1399.7	1399.4	1399.1	1398.9	1398.7	1398.7	1398.7
152.5°	1422.9	1422.7	1422.6	1422.4	1422.6	1422.7	1422.9	1423.0	1422.9	1422.5	1422.1
155°	1455.0	1454.2	1453.5	1452.7	1453.5	1454.2	1455.0	1455.8	1455.7	1454.6	1453.6
157.5°	1482.1	1480.8	1479.4	1478.0	1479.4	1480.8	1482.1	1483.5	1483.5	1482.1	1480.8
160°	1499.6	1498.0	1496.5	1494.9	1496.5	1498.0	1499.6	1501.2	1501.2	1499.6	1498.0
162.5°	1513.4	1511.7	1509.8	1508.0	1509.8	1511.7	1513.4	1515.2	1515.3	1513.7	1512.2
165°	1533.7	1531.3	1528.9	1526.6	1528.9	1531.3	1533.7	1536.0	1536.1	1534.1	1532.0
167.5°	1548.3	1545.7	1543.1	1540.4	1543.1	1545.7	1548.3	1550.8	1551.1	1548.7	1546.5
170°	1556.7	1554.1	1551.6	1548.9	1551.6	1554.1	1556.7	1559.3	1559.6	1557.5	1555.4
172.5°	1562.1	1559.2	1556.4	1553.6	1556.4	1559.2	1562.1	1564.9	1565.2	1563.2	1561.0
175°	1568.8	1565.7	1562.6	1559.4	1562.6	1565.7	1568.8	1572.0	1572.4	1570.0	1567.7
177.5°	1570.7	1568.2	1565.7	1563.3	1565.7	1568.2	1570.7	1573.3	1573.7	1572.0	1570.3
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8



TEST NUMBER: P332661-840

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

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°	32.3	30.9	27.7	25.5	24.0	21.4	20.9	18.6	17.5	16.4	15.2
90°	27.4	25.9	23.7	21.6	19.6	17.5	14.9	12.1	9.3	6.4	3.5
92.5°	26.5	24.8	22.8	20.7	18.6	16.6	15.5	15.2	15.1	14.9	14.7
95°	27.4	25.9	25.5	25.2	25.0	24.7	29.1	38.0	46.8	55.6	64.5
97.5°	31.1	31.0	60.1	89.2	118.3	147.3	159.2	153.6	148.1	142.6	137.0
100°	47.2	51.6	87.7	123.6	159.6	195.6	211.3	206.5	201.9	197.1	192.5
102.5°	201.0	248.7	253.5	258.1	262.9	267.5	268.1	264.7	261.3	257.8	254.4
105°	368.5	366.1	364.8	363.5	362.2	360.9	359.4	357.9	356.3	354.8	353.1
107.5°	457.6	456.5	454.6	452.9	451.1	449.4	448.1	447.3	446.6	445.8	444.9
110°	518.0	517.5	515.9	514.3	512.8	511.2	510.1	509.3	508.5	507.7	507.0



TEST NUMBER: P332661-840

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	576.5	576.6	575.9	575.1	574.4	573.7	572.6	571.2	569.8	568.5	567.0
115°	662.4	661.8	662.1	662.4	662.6	662.9	662.6	661.8	661.1	660.2	659.4
117.5°	749.9	750.0	749.5	748.9	748.3	747.7	746.9	745.9	744.9	743.8	742.8
120°	803.1	802.6	802.8	803.1	803.4	803.7	803.2	802.2	801.2	800.1	799.1
122.5°	856.5	856.2	855.8	855.4	855.1	854.6	854.1	853.5	852.9	852.3	851.6
125°	930.1	929.4	929.9	930.4	930.9	931.4	931.2	930.1	929.1	928.1	927.0
127.5°	1004.7	1004.9	1003.7	1002.5	1001.3	1000.1	999.4	999.2	998.9	998.6	998.4
130°	1049.2	1049.0	1048.2	1047.4	1046.7	1045.9	1045.4	1045.1	1044.9	1044.6	1044.3
132.5°	1093.4	1093.2	1092.2	1091.2	1090.1	1089.2	1088.4	1088.0	1087.5	1087.0	1086.6
135°	1154.0	1153.5	1152.5	1151.3	1150.3	1149.3	1148.9	1149.1	1149.4	1149.7	1149.9
137.5°	1212.2	1211.6	1210.5	1209.4	1208.2	1207.1	1206.5	1206.4	1206.3	1206.2	1206.1
140°	1248.1	1247.4	1246.8	1246.3	1245.8	1245.3	1244.8	1244.3	1243.6	1243.1	1242.6
142.5°	1281.7	1281.1	1280.8	1280.5	1280.2	1279.9	1279.3	1278.3	1277.4	1276.5	1275.5
145°	1329.8	1329.5	1329.5	1329.5	1329.5	1329.5	1329.1	1328.3	1327.6	1326.8	1326.0
147.5°	1371.7	1371.5	1371.7	1372.0	1372.3	1372.5	1371.9	1370.5	1369.0	1367.6	1366.0
150°	1398.7	1398.7	1399.0	1399.3	1399.5	1399.8	1399.4	1398.4	1397.2	1396.2	1395.2
152.5°	1421.7	1421.3	1421.7	1422.2	1422.7	1423.1	1422.9	1422.1	1421.3	1420.5	1419.6
155°	1452.6	1451.5	1452.3	1453.1	1453.9	1454.6	1454.9	1454.6	1454.4	1454.1	1453.9
157.5°	1479.4	1478.0	1478.9	1479.9	1480.7	1481.6	1482.1	1482.3	1482.4	1482.6	1482.7
160°	1496.5	1494.9	1495.2	1495.4	1495.7	1496.0	1496.5	1497.3	1498.0	1498.8	1499.6
162.5°	1510.6	1509.0	1509.2	1509.5	1509.7	1510.1	1510.7	1511.7	1512.7	1513.7	1514.6
165°	1529.8	1527.8	1527.8	1527.8	1527.8	1527.8	1528.4	1529.7	1531.1	1532.4	1533.7
167.5°	1544.2	1541.9	1542.1	1542.2	1542.4	1542.5	1543.3	1544.6	1546.0	1547.3	1548.6
170°	1553.4	1551.3	1551.0	1550.7	1550.4	1550.2	1550.8	1552.5	1554.0	1555.6	1557.1
172.5°	1558.9	1556.9	1556.6	1556.4	1556.1	1555.8	1556.5	1558.0	1559.6	1561.2	1562.8
175°	1565.3	1563.0	1562.8	1562.5	1562.2	1562.0	1562.6	1564.2	1565.7	1567.3	1568.8
177.5°	1568.6	1567.0	1566.6	1566.1	1565.7	1565.3	1565.8	1567.3	1568.7	1570.2	1571.7
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8



TEST NUMBER: P332661-840

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

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°	16.4	17.5	19.7	22.0	24.7	25.7	25.5	26.0	24.1	23.9	22.0
90°	6.4	9.3	12.1	14.9	17.5	19.6	21.6	23.7	25.9	27.4	29.0
92.5°	14.9	15.1	15.2	15.5	16.6	18.6	20.7	22.8	24.8	26.5	28.0
95°	55.6	46.8	38.0	29.1	24.7	25.0	25.2	25.5	25.9	27.4	29.0
97.5°	142.6	148.1	153.6	159.2	147.3	118.3	89.2	60.1	31.0	31.1	31.3
100°	197.1	201.9	206.5	211.3	195.6	159.6	123.6	87.7	51.6	47.2	42.7
102.5°	257.8	261.3	264.7	268.1	267.5	262.9	258.1	253.5	248.7	201.0	153.1
105°	354.8	356.3	357.9	359.4	360.9	362.2	363.5	364.8	366.1	368.5	370.8
107.5°	445.8	446.6	447.3	448.1	449.4	451.1	452.9	454.6	456.5	457.6	458.8
110°	507.7	508.5	509.3	510.1	511.2	512.8	514.3	515.9	517.5	518.0	518.6



TEST NUMBER: P332661-840

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	568.5	569.8	571.2	572.6	573.7	574.4	575.1	575.9	576.6	576.5	576.4
115°	660.2	661.1	661.8	662.6	662.9	662.6	662.4	662.1	661.8	662.4	662.9
117.5°	743.8	744.9	745.9	746.9	747.7	748.3	748.9	749.5	750.0	749.9	749.8
120°	800.1	801.2	802.2	803.2	803.7	803.4	803.1	802.8	802.6	803.1	803.7
122.5°	852.3	852.9	853.5	854.1	854.6	855.1	855.4	855.8	856.2	856.5	856.8
125°	928.1	929.1	930.1	931.2	931.4	930.9	930.4	929.9	929.4	930.1	930.9
127.5°	998.6	998.9	999.2	999.4	1000.1	1001.3	1002.5	1003.7	1004.9	1004.7	1004.6
130°	1044.6	1044.9	1045.1	1045.4	1045.9	1046.7	1047.4	1048.2	1049.0	1049.2	1049.6
132.5°	1087.0	1087.5	1088.0	1088.4	1089.2	1090.1	1091.2	1092.2	1093.2	1093.4	1093.7
135°	1149.7	1149.4	1149.1	1148.9	1149.3	1150.3	1151.3	1152.5	1153.5	1154.0	1154.5
137.5°	1206.2	1206.3	1206.4	1206.5	1207.1	1208.2	1209.4	1210.5	1211.6	1212.2	1212.8
140°	1243.1	1243.6	1244.3	1244.8	1245.3	1245.8	1246.3	1246.8	1247.4	1248.1	1248.9
142.5°	1276.5	1277.4	1278.3	1279.3	1279.9	1280.2	1280.5	1280.8	1281.1	1281.7	1282.3
145°	1326.8	1327.6	1328.3	1329.1	1329.5	1329.5	1329.5	1329.5	1329.5	1329.8	1330.0
147.5°	1367.6	1369.0	1370.5	1371.9	1372.5	1372.3	1372.0	1371.7	1371.5	1371.7	1371.9
150°	1396.2	1397.2	1398.4	1399.4	1399.8	1399.5	1399.3	1399.0	1398.7	1398.7	1398.7
152.5°	1420.5	1421.3	1422.1	1422.9	1423.1	1422.7	1422.2	1421.7	1421.3	1421.7	1422.1
155°	1454.1	1454.4	1454.6	1454.9	1454.6	1453.9	1453.1	1452.3	1451.5	1452.6	1453.6
157.5°	1482.6	1482.4	1482.3	1482.1	1481.6	1480.7	1479.9	1478.9	1478.0	1479.4	1480.8
160°	1498.8	1498.0	1497.3	1496.5	1496.0	1495.7	1495.4	1495.2	1494.9	1496.5	1498.0
162.5°	1513.7	1512.7	1511.7	1510.7	1510.1	1509.7	1509.5	1509.2	1509.0	1510.6	1512.2
165°	1532.4	1531.1	1529.7	1528.4	1527.8	1527.8	1527.8	1527.8	1527.8	1529.8	1532.0
167.5°	1547.3	1546.0	1544.6	1543.3	1542.5	1542.4	1542.2	1542.1	1541.9	1544.2	1546.5
170°	1555.6	1554.0	1552.5	1550.8	1550.2	1550.4	1550.7	1551.0	1551.3	1553.4	1555.4
172.5°	1561.2	1559.6	1558.0	1556.5	1555.8	1556.1	1556.4	1556.6	1556.9	1558.9	1561.0
175°	1567.3	1565.7	1564.2	1562.6	1562.0	1562.2	1562.5	1562.8	1563.0	1565.3	1567.7
177.5°	1570.2	1568.7	1567.3	1565.8	1565.3	1565.7	1566.1	1566.6	1567.0	1568.6	1570.3
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8



TEST NUMBER: P332661-840
 CATALOG NUMBER: SA4XXDIP-C1020D1205U840-4F0-1E-UDD-A

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°	22.8	22.6	22.2	21.2	20.8	20.9	19.3
90°	30.5	32.1	33.1	33.6	34.1	34.6	35.2
92.5°	29.6	31.1	32.0	32.1	32.2	32.3	32.4
95°	30.5	32.1	33.0	33.2	33.5	33.7	34.0
97.5°	31.4	31.6	31.8	32.1	32.3	32.6	32.8
100°	38.4	33.9	31.8	32.1	32.3	32.6	32.8
102.5°	105.3	57.5	33.6	33.6	33.7	33.7	33.8
105°	373.1	375.5	371.9	362.5	353.1	343.9	334.5
107.5°	459.9	461.0	462.1	463.1	464.1	465.0	466.1
110°	519.1	519.6	520.2	521.0	521.8	522.6	523.3



TEST NUMBER: P332661-840

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	576.3	576.2	576.6	577.6	578.7	579.7	580.6
115°	663.4	663.9	664.2	664.2	664.2	664.2	664.2
117.5°	749.7	749.6	749.5	749.4	749.3	749.2	749.1
120°	804.2	804.7	804.7	804.2	803.7	803.1	802.6
122.5°	857.1	857.4	857.3	856.8	856.3	855.7	855.2
125°	931.7	932.5	933.0	933.2	933.5	933.8	934.0
127.5°	1004.4	1004.3	1004.1	1003.9	1003.7	1003.5	1003.3
130°	1049.9	1050.1	1050.2	1050.2	1050.2	1050.2	1050.2
132.5°	1094.0	1094.2	1094.2	1094.0	1093.8	1093.6	1093.4
135°	1155.0	1155.6	1156.1	1156.6	1157.1	1157.6	1158.1
137.5°	1213.4	1214.0	1214.2	1214.1	1213.9	1213.7	1213.6
140°	1249.7	1250.5	1251.0	1251.2	1251.5	1251.7	1252.0
142.5°	1282.8	1283.4	1283.7	1283.8	1283.8	1283.9	1283.9
145°	1330.3	1330.5	1330.9	1331.4	1331.9	1332.5	1333.0
147.5°	1372.1	1372.3	1372.5	1372.8	1373.1	1373.3	1373.6
150°	1398.7	1398.7	1398.9	1399.1	1399.4	1399.7	1399.9
152.5°	1422.5	1422.9	1423.0	1422.9	1422.7	1422.6	1422.4
155°	1454.6	1455.7	1455.8	1455.0	1454.2	1453.5	1452.7
157.5°	1482.1	1483.5	1483.5	1482.1	1480.8	1479.4	1478.0
160°	1499.6	1501.2	1501.2	1499.6	1498.0	1496.5	1494.9
162.5°	1513.7	1515.3	1515.2	1513.4	1511.7	1509.8	1508.0
165°	1534.1	1536.1	1536.0	1533.7	1531.3	1528.9	1526.6
167.5°	1548.7	1551.1	1550.8	1548.3	1545.7	1543.1	1540.4
170°	1557.5	1559.6	1559.3	1556.7	1554.1	1551.6	1548.9
172.5°	1563.2	1565.2	1564.9	1562.1	1559.2	1556.4	1553.6
175°	1570.0	1572.4	1572.0	1568.8	1565.7	1562.6	1559.4
177.5°	1572.0	1573.7	1573.3	1570.7	1568.2	1565.7	1563.3
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8

(END OF REPORT)