

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: P332979-840

Luminaire Tested: **S124RDIP-S1020D1205U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332979-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIP-S1020D1205U840-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1205 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9237.5 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

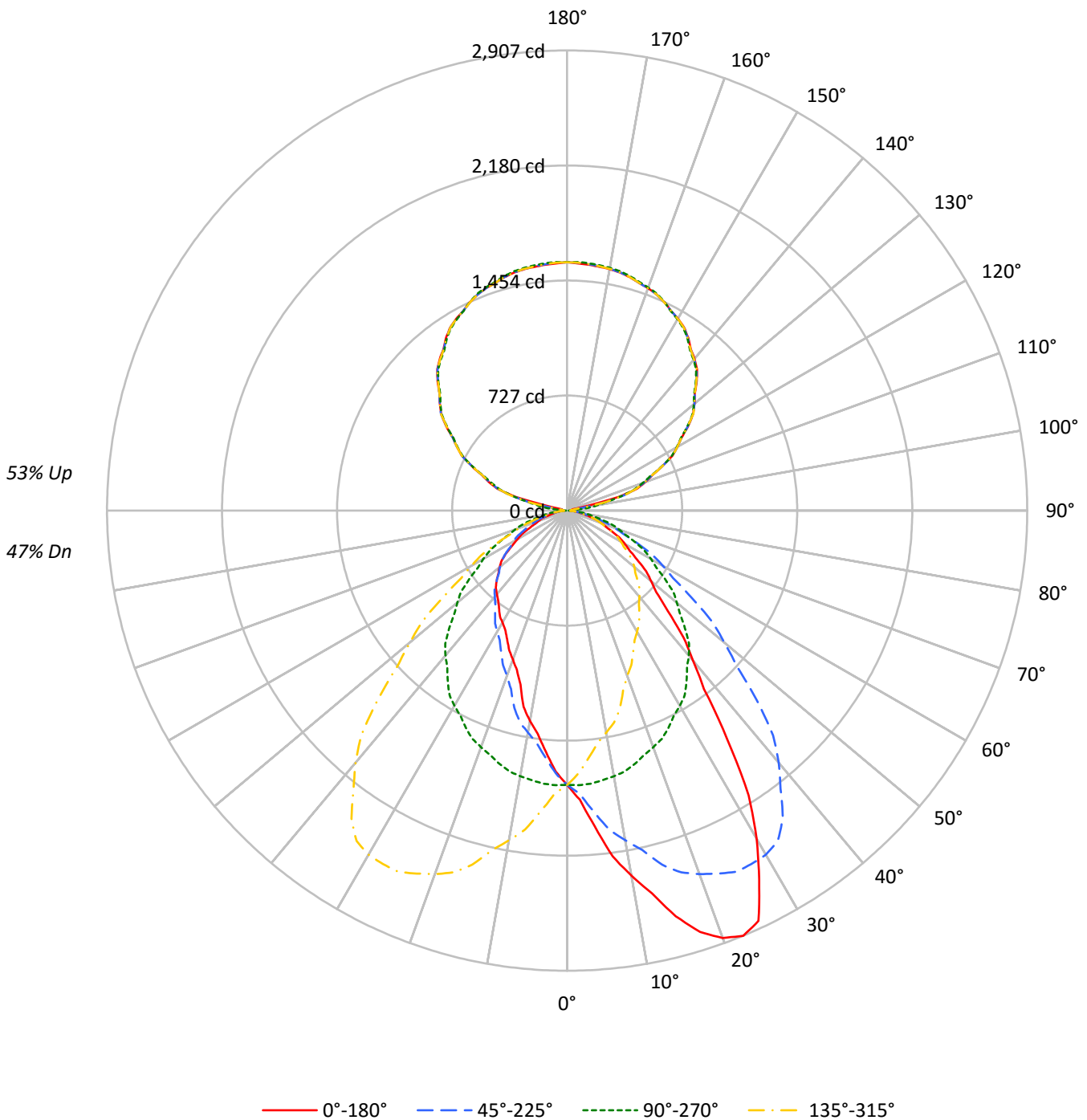
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13988	13988	13988	13988
5°	16226	14030	12400	14030
10°	19194	13969	11068	13969
15°	22172	13840	9510	13840
20°	24686	13662	8600	13662
25°	25483	13488	7985	13488
30°	22309	13276	7614	13276
35°	17366	12962	7389	12962
40°	13022	12603	7268	12603
45°	10282	12028	7205	12028
50°	8681	11362	6997	11362
55°	7567	10632	6622	10632
60°	6807	9875	5861	9875
65°	6002	9054	5041	9054
70°	5403	8207	4548	8207
75°	4529	7274	3877	7274
80°	3831	6197	3636	6197
85°	3233	4844	3233	4844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	1.8
10°-20°	506.4	5.5
20°-30°	792.1	8.6
30°-40°	880.6	9.5
40°-50°	781.3	8.5
50°-60°	608.8	6.6
60°-70°	398.6	4.3
70°-80°	196.0	2.1
80°-90°	52.9	0.6
90°-100°	53.7	0.6
100°-110°	342.1	3.7
110°-120°	654.5	7.1
120°-130°	830.8	9.0
130°-140°	888.9	9.6
140°-150°	831.2	9.0
150°-160°	670.3	7.3
160°-170°	432.4	4.7
170°-180°	149.0	1.6
0°-30°	1466.4	15.9
0°-40°	2347.0	25.4
0°-60°	3737.0	40.5
0°-90°	4384.5	47.5
90°-120°	1050.3	11.4
90°-150°	3601.3	39.0
90°-180°	4853.0	52.5
0°-180°	9237.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1733	1733	1733	1733	1733	
5°	2002	1731	1530	1731	2002	203
15°	2653	1656	1138	1656	2653	754
25°	2861	1514	896	1514	2861	1269
35°	1762	1315	750	1315	1762	1105
45°	901	1054	631	1054	901	713
55°	538	755	470	755	538	489
65°	314	474	264	474	314	316
75°	145	233	124	233	145	160
85°	35	52	35	52	35	40
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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1827.7	1832.7	1827.7	1827.1	1821.6	1819.9	1817.7	1810.4	1797.0	1789.2	1790.8
5°	2002.3	2019.6	2009.9	2008.5	1993.2	1977.8	1968.0	1945.7	1922.0	1905.9	1892.6
7.5°	2204.1	2214.1	2208.1	2198.3	2173.4	2159.3	2136.7	2107.2	2064.7	2032.1	2002.4
10°	2341.5	2349.9	2347.1	2329.0	2310.8	2273.8	2252.8	2211.7	2157.9	2115.4	2075.5
12.5°	2476.7	2485.6	2461.0	2461.8	2427.5	2398.3	2365.1	2313.3	2251.2	2196.3	2146.5
15°	2652.9	2641.7	2641.7	2627.8	2589.3	2548.9	2514.7	2460.2	2382.0	2316.3	2247.3
17.5°	2790.9	2794.7	2789.0	2756.0	2725.9	2684.0	2621.3	2557.8	2485.2	2397.1	2326.4
20°	2873.5	2873.5	2867.2	2844.9	2805.8	2761.1	2693.4	2624.2	2532.1	2443.5	2363.9
22.5°	2907.0	2909.2	2901.8	2883.4	2848.2	2804.6	2746.9	2676.7	2581.8	2481.9	2383.4
25°	2860.9	2874.2	2875.6	2870.6	2860.2	2833.7	2784.1	2712.2	2627.1	2518.8	2412.7
27.5°	2626.7	2643.4	2658.1	2682.2	2714.3	2731.1	2733.3	2696.7	2622.4	2518.3	2411.5
30°	2393.2	2407.1	2452.6	2511.8	2557.9	2599.8	2636.2	2645.8	2604.0	2510.4	2398.0
32.5°	2134.0	2153.0	2198.4	2262.2	2338.9	2409.9	2491.4	2533.0	2531.9	2475.8	2371.8
35°	1762.1	1776.0	1818.0	1884.9	1977.1	2082.5	2211.7	2312.2	2380.6	2375.7	2312.2
37.5°	1421.1	1436.8	1479.1	1534.8	1624.2	1754.6	1879.7	2018.1	2144.7	2215.7	2194.4
40°	1235.7	1236.4	1277.6	1334.8	1418.6	1532.4	1668.5	1822.1	1963.1	2078.3	2100.6
42.5°	1089.3	1089.4	1116.7	1178.4	1238.8	1345.8	1475.8	1628.3	1793.3	1926.4	1985.6
45°	900.6	906.9	929.2	966.2	1013.7	1104.4	1208.4	1350.2	1535.2	1692.9	1791.4
47.5°	762.7	771.8	786.1	816.3	854.0	914.5	1000.6	1127.9	1278.4	1452.0	1592.1
50°	691.2	692.6	710.6	727.4	760.2	808.4	883.8	990.0	1128.1	1295.1	1450.7
52.5°	629.8	629.4	640.4	661.6	688.2	725.8	786.7	883.2	1005.8	1155.4	1316.1
55°	537.6	541.1	549.5	566.1	586.4	613.0	661.2	733.8	830.1	957.9	1103.8
57.5°	467.5	469.3	475.8	482.9	501.5	520.8	556.9	607.3	688.6	793.2	929.2
60°	421.6	422.3	424.4	434.9	449.6	467.8	492.2	534.7	603.2	698.8	806.4
62.5°	377.0	378.2	381.4	389.1	400.4	413.0	438.6	472.8	529.5	611.2	708.0
65°	314.2	314.9	319.7	322.6	331.6	342.7	361.6	384.7	423.7	492.2	565.5
67.5°	262.5	262.5	262.8	266.5	272.9	280.2	291.5	309.9	339.4	381.4	446.1
70°	228.9	228.9	230.4	232.5	236.0	242.3	248.5	262.5	284.2	318.3	367.9
72.5°	197.7	198.2	199.7	200.1	201.9	207.0	211.7	220.7	236.7	262.5	302.6
75°	145.2	147.3	150.8	153.6	157.0	156.4	161.3	166.8	171.8	187.1	210.2
77.5°	108.1	106.9	107.3	109.8	110.2	110.9	114.3	118.7	122.3	129.6	137.8
80°	82.4	82.4	84.4	85.1	84.4	85.1	88.7	90.8	92.2	94.9	102.6
82.5°	62.3	63.4	62.7	63.4	63.8	64.5	67.5	67.9	69.3	70.4	73.6
85°	34.9	35.6	36.3	34.9	34.9	34.9	36.3	37.0	38.4	37.7	39.1
87.5°	19.3	18.7	19.1	19.0	19.5	18.7	19.0	19.8	18.3	18.6	18.2
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



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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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1785.2	1777.5	1773.5	1764.5	1753.9	1748.4	1743.3	1736.1	1726.6	1716.6	1709.3
5°	1875.8	1859.1	1838.2	1813.0	1790.7	1769.1	1750.2	1731.3	1709.7	1687.4	1665.1
7.5°	1968.8	1935.9	1900.3	1859.1	1819.1	1782.6	1749.1	1717.0	1680.6	1648.1	1618.5
10°	2033.7	1988.9	1939.3	1887.0	1834.6	1789.3	1744.6	1704.1	1659.4	1619.6	1586.1
12.5°	2086.2	2033.7	1974.0	1908.8	1845.8	1791.0	1739.6	1686.8	1636.0	1592.9	1548.1
15°	2173.2	2101.3	2021.0	1942.9	1861.2	1786.5	1717.4	1656.0	1598.0	1537.3	1494.7
17.5°	2233.1	2147.9	2050.2	1956.3	1859.8	1771.7	1691.9	1618.8	1552.0	1490.0	1439.3
20°	2268.9	2174.6	2066.5	1959.6	1851.4	1757.2	1671.3	1590.3	1521.3	1454.2	1401.8
22.5°	2289.0	2184.7	2066.5	1954.6	1842.5	1740.4	1646.2	1561.9	1486.6	1419.6	1361.6
25°	2295.4	2183.7	2063.0	1934.5	1811.6	1703.4	1605.7	1514.2	1430.5	1363.4	1302.0
27.5°	2286.5	2155.0	2031.2	1899.5	1772.7	1658.6	1556.0	1460.0	1376.0	1304.1	1241.1
30°	2273.1	2132.0	1999.4	1862.6	1734.1	1624.6	1516.3	1424.2	1336.9	1262.2	1198.7
32.5°	2244.0	2104.2	1961.5	1821.3	1691.1	1578.2	1475.5	1382.8	1297.3	1220.9	1153.5
35°	2186.6	2044.8	1889.9	1746.1	1618.2	1501.0	1404.6	1315.2	1233.6	1152.0	1080.7
37.5°	2110.7	1965.9	1811.8	1654.3	1526.4	1415.6	1327.3	1243.3	1163.7	1089.0	1010.2
40°	2039.2	1907.2	1748.1	1591.7	1460.5	1353.6	1272.0	1195.9	1115.6	1041.6	962.7
42.5°	1952.7	1840.3	1679.4	1522.5	1392.9	1290.0	1213.9	1139.4	1066.4	994.7	912.4
45°	1808.2	1722.9	1572.2	1421.4	1290.8	1188.9	1119.1	1053.5	989.3	920.8	843.3
47.5°	1642.5	1584.9	1454.7	1300.3	1179.5	1087.8	1020.4	966.7	912.4	844.0	776.1
50°	1527.5	1490.5	1364.8	1223.9	1108.6	1024.1	955.0	904.7	859.4	793.8	733.1
52.5°	1404.6	1384.9	1278.8	1144.0	1032.7	949.9	890.8	845.6	799.6	745.2	688.3
55°	1217.5	1228.0	1137.9	1021.4	916.7	846.9	793.0	755.4	716.3	670.2	626.2
57.5°	1026.2	1064.5	1004.0	901.7	803.5	739.0	698.5	666.8	634.0	595.8	558.3
60°	911.7	943.8	909.7	819.6	733.8	673.7	636.0	611.6	578.8	543.8	515.2
62.5°	800.0	834.4	814.2	741.4	661.7	610.1	576.8	554.0	529.6	499.2	469.4
65°	659.7	682.1	672.3	622.1	565.5	521.5	490.8	474.0	451.7	429.4	402.8
67.5°	505.3	548.5	542.7	516.0	467.2	432.8	412.7	397.9	377.6	360.9	343.0
70°	415.4	455.1	454.4	432.8	406.3	374.2	360.2	347.7	329.5	313.5	298.8
72.5°	340.0	376.5	381.8	365.3	347.1	322.9	309.4	300.7	283.2	272.2	260.2
75°	238.0	264.6	271.6	271.6	263.2	250.6	238.7	233.2	220.7	210.9	203.9
77.5°	156.1	172.9	183.8	186.2	187.5	183.3	173.6	169.7	160.0	156.5	149.9
80°	110.3	121.5	134.0	138.3	141.7	140.4	136.1	133.3	124.3	120.8	118.0
82.5°	76.2	82.4	92.7	101.9	101.0	104.6	101.0	98.8	91.9	90.6	87.9
85°	39.8	40.5	41.9	48.2	51.7	53.0	53.7	52.3	50.3	50.3	45.3
87.5°	17.8	16.8	17.5	17.0	17.0	18.6	19.7	19.7	18.6	17.5	16.4
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: P332979-840

CATALOG NUMBER: S124RDIP-S1020D1205U840-4F0-1E-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: P332979-840

CATALOG NUMBER: S124RDIP-S1020D1205U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1701.4	1695.9	1688.6	1680.2	1670.2	1661.2	1657.4	1660.7	1662.3	1657.9	1657.4
5°	1649.7	1632.2	1618.2	1597.3	1580.5	1566.6	1556.8	1552.7	1554.0	1542.9	1540.0
7.5°	1591.4	1570.7	1547.9	1523.0	1499.9	1479.4	1468.5	1462.7	1450.9	1445.8	1437.3
10°	1554.0	1526.1	1503.8	1474.4	1447.9	1423.5	1411.6	1401.8	1390.0	1384.4	1372.5
12.5°	1515.5	1483.1	1458.5	1428.1	1401.0	1371.5	1360.2	1342.1	1323.5	1311.8	1296.6
15°	1461.2	1422.1	1392.1	1355.7	1323.6	1290.1	1260.1	1226.6	1214.1	1187.5	1172.2
17.5°	1397.7	1358.0	1320.8	1272.1	1222.5	1180.9	1148.9	1116.8	1097.6	1080.7	1072.9
20°	1355.7	1319.5	1267.8	1211.2	1156.1	1110.0	1084.2	1063.3	1042.3	1030.5	1022.1
22.5°	1316.1	1269.7	1209.7	1148.7	1093.6	1057.5	1035.6	1014.1	997.0	985.7	974.6
25°	1249.6	1188.9	1125.4	1055.6	1017.8	986.4	962.7	945.2	934.8	920.1	914.5
27.5°	1181.3	1107.8	1037.7	990.8	951.5	922.8	902.1	889.0	875.8	866.4	859.1
30°	1128.8	1054.2	991.4	946.6	906.9	883.1	866.4	851.0	840.5	832.8	827.3
32.5°	1076.9	1002.2	949.5	901.4	870.0	846.9	829.0	817.5	809.3	799.3	796.0
35°	1001.8	935.4	889.4	846.2	814.1	793.0	779.1	767.2	760.2	757.5	755.4
37.5°	929.6	875.4	825.8	790.3	761.6	745.2	728.7	722.9	718.1	713.1	715.3
40°	883.8	832.8	788.9	751.1	728.1	710.0	700.2	693.3	689.0	689.0	689.0
42.5°	844.1	794.4	751.4	717.7	694.6	679.2	668.4	662.5	661.2	660.6	663.9
45°	782.6	736.5	693.3	665.3	645.8	630.4	624.1	619.2	619.2	622.1	622.7
47.5°	721.5	678.4	643.7	612.4	594.5	584.9	579.5	576.9	577.2	580.0	583.2
50°	684.2	641.6	607.3	579.5	562.7	553.6	548.8	547.3	548.8	548.8	553.6
52.5°	643.4	605.3	571.6	548.2	529.2	520.7	518.0	516.0	516.8	519.2	521.2
55°	583.6	549.5	517.4	494.9	481.0	475.4	469.2	469.8	468.5	469.8	469.8
57.5°	523.7	493.0	463.1	445.5	433.1	425.1	418.2	420.1	418.1	417.8	416.7
60°	485.2	451.7	428.0	411.9	397.9	390.9	384.7	386.1	384.0	382.5	379.8
62.5°	443.3	415.4	392.7	377.3	366.1	358.0	351.7	350.3	345.5	340.7	334.6
65°	382.5	359.5	339.3	324.7	314.2	307.9	303.0	298.8	288.3	277.1	271.6
67.5°	323.6	306.9	288.0	275.6	267.1	258.8	249.5	242.4	232.6	226.5	223.0
70°	285.5	269.4	253.4	241.6	232.5	224.8	214.3	209.4	202.5	199.7	196.2
72.5°	249.2	234.3	219.3	208.6	198.9	193.0	184.7	179.9	176.7	175.6	172.2
75°	194.1	182.2	171.1	161.3	153.6	149.4	145.9	142.4	141.0	134.7	131.3
77.5°	141.6	133.8	126.7	119.8	114.3	111.6	104.8	100.8	98.5	95.5	94.8
80°	110.3	104.7	97.8	93.5	85.8	83.1	80.3	79.6	78.9	78.2	77.5
82.5°	82.9	77.4	70.4	67.9	65.7	64.1	62.4	61.7	61.0	61.4	61.3
85°	41.9	39.1	39.1	38.4	37.7	37.0	36.3	36.3	35.6	36.3	35.6
87.5°	17.0	16.9	17.3	16.7	17.6	18.0	17.8	18.1	19.0	18.2	18.4
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: P332979-840

CATALOG NUMBER: S124RDIP-S1020D1205U840-4F0-1E-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: P332979-840

CATALOG NUMBER: S124RDIP-S1020D1205U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1654.0	1655.1	1651.2	1650.1	1651.2	1655.1	1654.0	1657.4	1657.9	1662.3	1660.7
5°	1534.5	1533.1	1529.5	1530.2	1529.5	1533.1	1534.5	1540.0	1542.9	1554.0	1552.7
7.5°	1432.3	1426.8	1428.4	1422.8	1428.4	1426.8	1432.3	1437.3	1445.8	1450.9	1462.7
10°	1369.7	1362.0	1355.7	1350.2	1355.7	1362.0	1369.7	1372.5	1384.4	1390.0	1401.8
12.5°	1284.2	1277.7	1269.2	1270.9	1269.2	1277.7	1284.2	1296.6	1311.8	1323.5	1342.1
15°	1163.1	1152.6	1135.9	1137.9	1135.9	1152.6	1163.1	1172.2	1187.5	1214.1	1226.6
17.5°	1060.5	1060.6	1052.9	1054.7	1052.9	1060.6	1060.5	1072.9	1080.7	1097.6	1116.8
20°	1007.4	1002.5	1003.2	1001.1	1003.2	1002.5	1007.4	1022.1	1030.5	1042.3	1063.3
22.5°	970.6	964.5	959.7	955.3	959.7	964.5	970.6	974.6	985.7	997.0	1014.1
25°	908.3	904.0	897.8	896.4	897.8	904.0	908.3	914.5	920.1	934.8	945.2
27.5°	853.5	852.7	850.2	847.0	850.2	852.7	853.5	859.1	866.4	875.8	889.0
30°	821.7	820.3	818.9	816.8	818.9	820.3	821.7	827.3	832.8	840.5	851.0
32.5°	793.2	792.3	790.9	791.1	790.9	792.3	793.2	796.0	799.3	809.3	817.5
35°	752.6	751.8	750.5	749.8	750.5	751.8	752.6	755.4	757.5	760.2	767.2
37.5°	714.6	716.4	715.6	715.4	715.6	716.4	714.6	715.3	713.1	718.1	722.9
40°	688.3	689.0	690.4	689.7	690.4	689.0	688.3	689.0	689.0	689.0	693.3
42.5°	666.6	666.7	668.6	666.3	668.6	666.7	666.6	663.9	660.6	661.2	662.5
45°	627.6	631.8	631.1	631.1	631.1	631.8	627.6	622.7	622.1	619.2	619.2
47.5°	585.0	588.7	589.7	589.5	589.7	588.7	585.0	583.2	580.0	577.2	576.9
50°	557.1	555.7	557.8	557.1	557.8	555.7	557.1	553.6	548.8	548.8	547.3
52.5°	523.0	523.3	523.2	522.5	523.2	523.3	523.0	521.2	519.2	516.8	516.0
55°	470.5	471.2	469.8	470.5	469.8	471.2	470.5	469.8	469.8	468.5	469.8
57.5°	413.5	410.2	411.6	409.9	411.6	410.2	413.5	416.7	417.8	418.1	420.1
60°	372.8	367.2	365.8	363.0	365.8	367.2	372.8	379.8	382.5	384.0	386.1
62.5°	327.0	323.1	318.3	320.5	318.3	323.1	327.0	334.6	340.7	345.5	350.3
65°	266.0	263.2	261.1	263.9	261.1	263.2	266.0	271.6	277.1	288.3	298.8
67.5°	220.2	218.6	218.6	217.2	218.6	218.6	220.2	223.0	226.5	232.6	242.4
70°	196.2	194.1	194.1	192.7	194.1	194.1	196.2	196.2	199.7	202.5	209.4
72.5°	171.6	169.5	170.1	169.3	170.1	169.5	171.6	172.2	175.6	176.7	179.9
75°	127.0	123.6	123.6	124.3	123.6	123.6	127.0	131.3	134.7	141.0	142.4
77.5°	94.8	94.1	95.1	93.8	95.1	94.1	94.8	94.8	95.5	98.5	100.8
80°	77.5	76.7	76.1	78.2	76.1	76.7	77.5	77.5	78.2	78.9	79.6
82.5°	60.2	60.1	59.9	62.5	59.9	60.1	60.2	61.3	61.4	61.0	61.7
85°	36.3	34.9	36.3	34.9	36.3	34.9	36.3	35.6	36.3	35.6	36.3
87.5°	19.6	19.1	18.7	19.3	18.7	19.1	19.6	18.4	18.2	19.0	18.1
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: P332979-840

CATALOG NUMBER: S124RDIP-S1020D1205U840-4F0-1E-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: P332979-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1657.4	1661.2	1670.2	1680.2	1688.6	1695.9	1701.4	1709.3	1716.6	1726.6	1736.1
5°	1556.8	1566.6	1580.5	1597.3	1618.2	1632.2	1649.7	1665.1	1687.4	1709.7	1731.3
7.5°	1468.5	1479.4	1499.9	1523.0	1547.9	1570.7	1591.4	1618.5	1648.1	1680.6	1717.0
10°	1411.6	1423.5	1447.9	1474.4	1503.8	1526.1	1554.0	1586.1	1619.6	1659.4	1704.1
12.5°	1360.2	1371.5	1401.0	1428.1	1458.5	1483.1	1515.5	1548.1	1592.9	1636.0	1686.8
15°	1260.1	1290.1	1323.6	1355.7	1392.1	1422.1	1461.2	1494.7	1537.3	1598.0	1656.0
17.5°	1148.9	1180.9	1222.5	1272.1	1320.8	1358.0	1397.7	1439.3	1490.0	1552.0	1618.8
20°	1084.2	1110.0	1156.1	1211.2	1267.8	1319.5	1355.7	1401.8	1454.2	1521.3	1590.3
22.5°	1035.6	1057.5	1093.6	1148.7	1209.7	1269.7	1316.1	1361.6	1419.6	1486.6	1561.9
25°	962.7	986.4	1017.8	1055.6	1125.4	1188.9	1249.6	1302.0	1363.4	1430.5	1514.2
27.5°	902.1	922.8	951.5	990.8	1037.7	1107.8	1181.3	1241.1	1304.1	1376.0	1460.0
30°	866.4	883.1	906.9	946.6	991.4	1054.2	1128.8	1198.7	1262.2	1336.9	1424.2
32.5°	829.0	846.9	870.0	901.4	949.5	1002.2	1076.9	1153.5	1220.9	1297.3	1382.8
35°	779.1	793.0	814.1	846.2	889.4	935.4	1001.8	1080.7	1152.0	1233.6	1315.2
37.5°	728.7	745.2	761.6	790.3	825.8	875.4	929.6	1010.2	1089.0	1163.7	1243.3
40°	700.2	710.0	728.1	751.1	788.9	832.8	883.8	962.7	1041.6	1115.6	1195.9
42.5°	668.4	679.2	694.6	717.7	751.4	794.4	844.1	912.4	994.7	1066.4	1139.4
45°	624.1	630.4	645.8	665.3	693.3	736.5	782.6	843.3	920.8	989.3	1053.5
47.5°	579.5	584.9	594.5	612.4	643.7	678.4	721.5	776.1	844.0	912.4	966.7
50°	548.8	553.6	562.7	579.5	607.3	641.6	684.2	733.1	793.8	859.4	904.7
52.5°	518.0	520.7	529.2	548.2	571.6	605.3	643.4	688.3	745.2	799.6	845.6
55°	469.2	475.4	481.0	494.9	517.4	549.5	583.6	626.2	670.2	716.3	755.4
57.5°	418.2	425.1	433.1	445.5	463.1	493.0	523.7	558.3	595.8	634.0	666.8
60°	384.7	390.9	397.9	411.9	428.0	451.7	485.2	515.2	543.8	578.8	611.6
62.5°	351.7	358.0	366.1	377.3	392.7	415.4	443.3	469.4	499.2	529.6	554.0
65°	303.0	307.9	314.2	324.7	339.3	359.5	382.5	402.8	429.4	451.7	474.0
67.5°	249.5	258.8	267.1	275.6	288.0	306.9	323.6	343.0	360.9	377.6	397.9
70°	214.3	224.8	232.5	241.6	253.4	269.4	285.5	298.8	313.5	329.5	347.7
72.5°	184.7	193.0	198.9	208.6	219.3	234.3	249.2	260.2	272.2	283.2	300.7
75°	145.9	149.4	153.6	161.3	171.1	182.2	194.1	203.9	210.9	220.7	233.2
77.5°	104.8	111.6	114.3	119.8	126.7	133.8	141.6	149.9	156.5	160.0	169.7
80°	80.3	83.1	85.8	93.5	97.8	104.7	110.3	118.0	120.8	124.3	133.3
82.5°	62.4	64.1	65.7	67.9	70.4	77.4	82.9	87.9	90.6	91.9	98.8
85°	36.3	37.0	37.7	38.4	39.1	39.1	41.9	45.3	50.3	50.3	52.3
87.5°	17.8	18.0	17.6	16.7	17.3	16.9	17.0	16.4	17.5	18.6	19.7
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: P332979-840

CATALOG NUMBER: S124RDIP-S1020D1205U840-4F0-1E-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: P332979-840

CATALOG NUMBER: S124RDIP-S1020D1205U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1743.3	1748.4	1753.9	1764.5	1773.5	1777.5	1785.2	1790.8	1789.2	1797.0	1810.4
5°	1750.2	1769.1	1790.7	1813.0	1838.2	1859.1	1875.8	1892.6	1905.9	1922.0	1945.7
7.5°	1749.1	1782.6	1819.1	1859.1	1900.3	1935.9	1968.8	2002.4	2032.1	2064.7	2107.2
10°	1744.6	1789.3	1834.6	1887.0	1939.3	1988.9	2033.7	2075.5	2115.4	2157.9	2211.7
12.5°	1739.6	1791.0	1845.8	1908.8	1974.0	2033.7	2086.2	2146.5	2196.3	2251.2	2313.3
15°	1717.4	1786.5	1861.2	1942.9	2021.0	2101.3	2173.2	2247.3	2316.3	2382.0	2460.2
17.5°	1691.9	1771.7	1859.8	1956.3	2050.2	2147.9	2233.1	2326.4	2397.1	2485.2	2557.8
20°	1671.3	1757.2	1851.4	1959.6	2066.5	2174.6	2268.9	2363.9	2443.5	2532.1	2624.2
22.5°	1646.2	1740.4	1842.5	1954.6	2066.5	2184.7	2289.0	2383.4	2481.9	2581.8	2676.7
25°	1605.7	1703.4	1811.6	1934.5	2063.0	2183.7	2295.4	2412.7	2518.8	2627.1	2712.2
27.5°	1556.0	1658.6	1772.7	1899.5	2031.2	2155.0	2286.5	2411.5	2518.3	2622.4	2696.7
30°	1516.3	1624.6	1734.1	1862.6	1999.4	2132.0	2273.1	2398.0	2510.4	2604.0	2645.8
32.5°	1475.5	1578.2	1691.1	1821.3	1961.5	2104.2	2244.0	2371.8	2475.8	2531.9	2533.0
35°	1404.6	1501.0	1618.2	1746.1	1889.9	2044.8	2186.6	2312.2	2375.7	2380.6	2312.2
37.5°	1327.3	1415.6	1526.4	1654.3	1811.8	1965.9	2110.7	2194.4	2215.7	2144.7	2018.1
40°	1272.0	1353.6	1460.5	1591.7	1748.1	1907.2	2039.2	2100.6	2078.3	1963.1	1822.1
42.5°	1213.9	1290.0	1392.9	1522.5	1679.4	1840.3	1952.7	1985.6	1926.4	1793.3	1628.3
45°	1119.1	1188.9	1290.8	1421.4	1572.2	1722.9	1808.2	1791.4	1692.9	1535.2	1350.2
47.5°	1020.4	1087.8	1179.5	1300.3	1454.7	1584.9	1642.5	1592.1	1452.0	1278.4	1127.9
50°	955.0	1024.1	1108.6	1223.9	1364.8	1490.5	1527.5	1450.7	1295.1	1128.1	990.0
52.5°	890.8	949.9	1032.7	1144.0	1278.8	1384.9	1404.6	1316.1	1155.4	1005.8	883.2
55°	793.0	846.9	916.7	1021.4	1137.9	1228.0	1217.5	1103.8	957.9	830.1	733.8
57.5°	698.5	739.0	803.5	901.7	1004.0	1064.5	1026.2	929.2	793.2	688.6	607.3
60°	636.0	673.7	733.8	819.6	909.7	943.8	911.7	806.4	698.8	603.2	534.7
62.5°	576.8	610.1	661.7	741.4	814.2	834.4	800.0	708.0	611.2	529.5	472.8
65°	490.8	521.5	565.5	622.1	672.3	682.1	659.7	565.5	492.2	423.7	384.7
67.5°	412.7	432.8	467.2	516.0	542.7	548.5	505.3	446.1	381.4	339.4	309.9
70°	360.2	374.2	406.3	432.8	454.4	455.1	415.4	367.9	318.3	284.2	262.5
72.5°	309.4	322.9	347.1	365.3	381.8	376.5	340.0	302.6	262.5	236.7	220.7
75°	238.7	250.6	263.2	271.6	271.6	264.6	238.0	210.2	187.1	171.8	166.8
77.5°	173.6	183.3	187.5	186.2	183.8	172.9	156.1	137.8	129.6	122.3	118.7
80°	136.1	140.4	141.7	138.3	134.0	121.5	110.3	102.6	94.9	92.2	90.8
82.5°	101.0	104.6	101.0	101.9	92.7	82.4	76.2	73.6	70.4	69.3	67.9
85°	53.7	53.0	51.7	48.2	41.9	40.5	39.8	39.1	37.7	38.4	37.0
87.5°	19.7	18.6	17.0	17.0	17.5	16.8	17.8	18.2	18.6	18.3	19.8
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



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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



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1817.7	1819.9	1821.6	1827.1	1827.7	1832.7	1827.7
5°	1968.0	1977.8	1993.2	2008.5	2009.9	2019.6	2002.3
7.5°	2136.7	2159.3	2173.4	2198.3	2208.1	2214.1	2204.1
10°	2252.8	2273.8	2310.8	2329.0	2347.1	2349.9	2341.5
12.5°	2365.1	2398.3	2427.5	2461.8	2461.0	2485.6	2476.7
15°	2514.7	2548.9	2589.3	2627.8	2641.7	2641.7	2652.9
17.5°	2621.3	2684.0	2725.9	2756.0	2789.0	2794.7	2790.9
20°	2693.4	2761.1	2805.8	2844.9	2867.2	2873.5	2873.5
22.5°	2746.9	2804.6	2848.2	2883.4	2901.8	2909.2	2907.0
25°	2784.1	2833.7	2860.2	2870.6	2875.6	2874.2	2860.9
27.5°	2733.3	2731.1	2714.3	2682.2	2658.1	2643.4	2626.7
30°	2636.2	2599.8	2557.9	2511.8	2452.6	2407.1	2393.2
32.5°	2491.4	2409.9	2338.9	2262.2	2198.4	2153.0	2134.0
35°	2211.7	2082.5	1977.1	1884.9	1818.0	1776.0	1762.1
37.5°	1879.7	1754.6	1624.2	1534.8	1479.1	1436.8	1421.1
40°	1668.5	1532.4	1418.6	1334.8	1277.6	1236.4	1235.7
42.5°	1475.8	1345.8	1238.8	1178.4	1116.7	1089.4	1089.3
45°	1208.4	1104.4	1013.7	966.2	929.2	906.9	900.6
47.5°	1000.6	914.5	854.0	816.3	786.1	771.8	762.7
50°	883.8	808.4	760.2	727.4	710.6	692.6	691.2
52.5°	786.7	725.8	688.2	661.6	640.4	629.4	629.8
55°	661.2	613.0	586.4	566.1	549.5	541.1	537.6
57.5°	556.9	520.8	501.5	482.9	475.8	469.3	467.5
60°	492.2	467.8	449.6	434.9	424.4	422.3	421.6
62.5°	438.6	413.0	400.4	389.1	381.4	378.2	377.0
65°	361.6	342.7	331.6	322.6	319.7	314.9	314.2
67.5°	291.5	280.2	272.9	266.5	262.8	262.5	262.5
70°	248.5	242.3	236.0	232.5	230.4	228.9	228.9
72.5°	211.7	207.0	201.9	200.1	199.7	198.2	197.7
75°	161.3	156.4	157.0	153.6	150.8	147.3	145.2
77.5°	114.3	110.9	110.2	109.8	107.3	106.9	108.1
80°	88.7	85.1	84.4	85.1	84.4	82.4	82.4
82.5°	67.5	64.5	63.8	63.4	62.7	63.4	62.3
85°	36.3	34.9	34.9	34.9	36.3	35.6	34.9
87.5°	19.0	18.7	19.5	19.0	19.1	18.7	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



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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)