

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: P332698

Luminaire Tested: **S124DIP-S1195D1035U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332698
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S1195D1035U835-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8902.2 lumens
Efficiency: N/A
Efficacy: 133.3 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

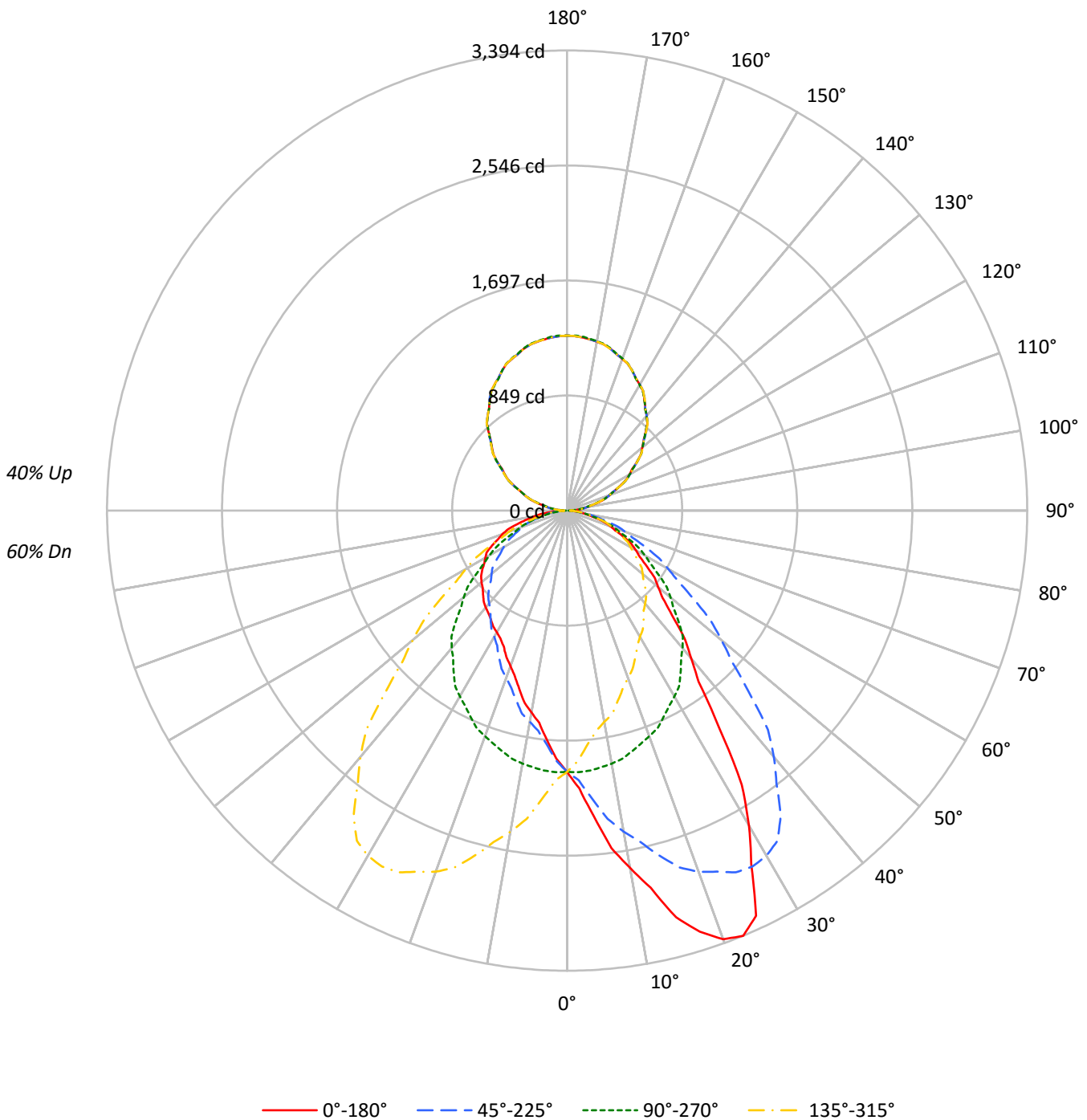
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	100	96	92	89	93	90	86	83	78	76	74	68	66	64	58	57	55	51
2	91	84	78	73	85	79	73	69	69	65	61	60	57	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	48	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15560	15560	15560	15560
5°	18323	15600	13768	15600
10°	21939	15531	12396	15531
15°	25957	15374	11384	15374
20°	28905	15214	10481	15214
25°	29372	14978	9857	14978
30°	24993	14752	9660	14752
35°	19215	14384	9662	14384
40°	14977	13951	9844	13951
45°	12488	13300	10009	13300
50°	10991	12504	10349	12504
55°	10069	11553	10766	11553
60°	9436	10700	11267	10700
65°	8785	9746	11683	9746
70°	8028	8802	11948	8802
75°	7171	7745	11803	7745
80°	6011	6346	11432	6346
85°	4437	4585	10948	4585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	2.1
10°-20°	578.8	6.5
20°-30°	917.8	10.3
30°-40°	1021.3	11.5
40°-50°	929.7	10.4
50°-60°	759.7	8.5
60°-70°	542.4	6.1
70°-80°	298.7	3.4
80°-90°	85.4	1.0
90°-100°	85.1	1.0
100°-110°	252.2	2.8
110°-120°	428.0	4.8
120°-130°	564.3	6.3
130°-140°	633.8	7.1
140°-150°	622.8	7.0
150°-160°	523.8	5.9
160°-170°	348.5	3.9
170°-180°	122.0	1.4
0°-30°	1684.3	18.9
0°-40°	2705.6	30.4
0°-60°	4395.1	49.4
0°-90°	5321.5	59.8
90°-120°	765.3	8.6
90°-150°	2586.3	29.1
90°-180°	3581.0	40.2
0°-180°	8902.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1927	1927	1927	1927	1927	
5°	2261	1925	1699	1925	2261	230
15°	3106	1840	1362	1840	3106	878
25°	3297	1682	1107	1682	3297	1454
35°	1950	1460	980	1460	1950	1238
45°	1094	1165	877	1165	1094	862
55°	715	821	765	821	715	646
65°	460	510	612	510	460	455
75°	230	248	378	248	230	244
85°	48	50	118	50	48	59
90°	30	3	30	3	30	17
95°	79	60	79	60	79	82
105°	244	233	244	233	244	257
115°	431	435	431	435	431	426
125°	629	634	629	634	629	561
135°	818	818	818	818	818	632
145°	994	993	994	993	994	622
155°	1137	1138	1137	1138	1137	523
165°	1236	1239	1236	1239	1236	348
175°	1283	1289	1283	1289	1283	122
180°	1291	1291	1291	1291	1291	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	2051.3	2050.6	2044.3	2043.0	2038.5	2032.8	2031.5	2021.3	2000.8	1991.2	1988.7
5°	2261.1	2277.1	2256.3	2252.3	2249.9	2223.6	2210.0	2194.0	2157.3	2135.8	2119.0
7.5°	2511.5	2513.4	2504.3	2497.0	2476.7	2453.7	2419.2	2382.5	2338.7	2293.2	2258.9
10°	2676.3	2682.7	2672.3	2670.7	2630.0	2604.4	2553.3	2510.2	2460.7	2405.6	2355.3
12.5°	2850.0	2841.1	2835.8	2801.6	2794.1	2747.5	2688.1	2643.7	2567.4	2504.0	2437.1
15°	3105.8	3088.3	3077.1	3030.0	3006.8	2942.1	2879.1	2830.4	2730.6	2635.6	2563.7
17.5°	3255.9	3273.5	3247.6	3228.3	3168.4	3123.1	3058.6	2956.4	2878.3	2760.3	2669.6
20°	3364.5	3366.1	3351.7	3331.8	3284.7	3227.2	3156.9	3045.1	2951.7	2834.4	2709.8
22.5°	3393.9	3394.2	3388.1	3369.5	3333.8	3287.2	3216.3	3123.1	3009.9	2882.3	2757.7
25°	3297.4	3294.2	3301.4	3322.2	3308.6	3294.2	3253.5	3184.1	3078.7	2943.7	2809.6
27.5°	2939.1	2961.1	3001.7	3052.8	3102.0	3139.5	3150.1	3135.8	3070.5	2959.6	2819.0
30°	2681.1	2708.2	2738.6	2789.6	2888.7	2945.3	3007.6	3054.7	3028.4	2939.8	2808.8
32.5°	2397.5	2404.2	2449.2	2507.3	2598.0	2707.1	2805.8	2901.4	2933.2	2886.7	2777.5
35°	1949.7	1960.9	2009.6	2067.1	2178.1	2311.4	2459.9	2592.4	2701.8	2745.7	2689.8
37.5°	1591.1	1623.2	1657.5	1719.3	1817.0	1937.1	2091.4	2262.9	2425.9	2535.1	2553.6
40°	1421.2	1441.1	1465.9	1513.0	1596.0	1714.2	1846.7	2043.1	2216.4	2372.9	2424.0
42.5°	1287.0	1298.7	1313.9	1356.5	1419.7	1537.3	1658.3	1831.1	2005.0	2192.1	2277.7
45°	1093.8	1105.8	1131.3	1156.1	1204.0	1285.4	1398.0	1540.1	1715.0	1895.4	2053.5
47.5°	954.3	961.9	977.1	1003.6	1044.3	1098.0	1189.6	1308.3	1470.4	1645.5	1814.0
50°	875.1	881.4	893.4	917.4	948.5	996.4	1071.5	1182.4	1309.4	1485.8	1651.1
52.5°	812.5	815.0	823.8	840.1	864.8	905.1	966.7	1058.5	1176.5	1333.8	1498.5
55°	715.4	718.6	726.6	738.5	760.1	785.6	832.7	901.4	1004.4	1140.9	1283.8
57.5°	635.5	637.8	644.5	649.1	666.8	687.6	723.8	772.9	850.9	966.7	1094.3
60°	584.4	582.8	590.8	594.8	606.8	624.4	652.3	699.4	767.3	860.7	978.1
62.5°	534.6	532.4	539.1	544.4	551.2	566.2	589.1	626.0	681.0	765.5	866.9
65°	459.9	456.7	460.7	467.1	473.5	481.4	498.2	530.9	574.9	635.5	713.0
67.5°	384.8	388.2	388.8	392.0	395.7	406.6	418.0	441.2	472.2	520.7	586.4
70°	340.1	340.9	344.1	344.1	346.5	356.1	365.7	379.2	409.6	454.3	507.8
72.5°	295.4	298.8	297.5	300.0	301.8	308.2	315.2	328.1	354.0	387.2	432.4
75°	229.9	232.3	232.3	233.1	235.5	237.9	243.5	253.1	271.5	296.2	327.3
77.5°	167.7	168.0	169.1	172.0	172.0	175.8	180.0	187.6	196.7	213.7	232.7
80°	129.3	130.9	130.1	131.7	131.7	134.9	136.5	146.1	150.1	161.3	176.4
82.5°	94.9	96.4	96.3	98.5	99.8	100.4	102.7	106.5	110.5	120.4	126.6
85°	47.9	49.5	47.9	49.5	51.9	52.7	55.1	55.9	59.1	61.5	67.1
87.5°	20.0	21.9	21.8	22.3	23.5	24.0	24.4	23.4	25.7	26.1	28.3
90°	29.9	29.5	29.1	28.6	28.2	27.3	26.0	24.6	23.3	22.0	20.2
92.5°	44.3	44.1	43.8	43.5	43.3	42.7	41.9	41.1	40.3	39.5	38.3
95°	78.9	78.9	78.9	78.9	78.9	78.5	77.9	77.2	76.5	75.9	74.3
97.5°	123.6	123.6	123.6	123.6	123.6	123.2	122.4	121.6	120.8	120.0	118.2
100°	154.7	154.7	154.7	154.7	154.7	154.5	154.0	153.6	153.2	152.7	150.7
102.5°	189.8	189.7	189.5	189.3	189.1	188.7	188.1	187.5	186.9	186.3	184.4
105°	243.5	242.9	242.2	241.5	240.9	240.2	239.6	238.9	238.2	237.6	236.7
107.5°	295.8	295.9	295.9	296.0	296.0	295.7	295.1	294.5	293.9	293.3	293.1
110°	333.4	332.7	332.0	331.4	330.7	330.6	331.0	331.5	331.9	332.4	332.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	371.7	371.6	371.4	371.3	371.2	371.2	371.2	371.3	371.4	371.5	371.9
115°	431.2	431.4	431.6	431.9	432.1	432.3	432.5	432.7	433.0	433.2	433.6
117.5°	487.9	488.3	488.8	489.2	489.7	490.3	491.0	491.8	492.5	493.3	493.6
120°	531.0	530.6	530.1	529.7	529.2	529.6	530.7	531.8	532.9	534.0	534.7
122.5°	566.9	567.7	568.5	569.3	570.1	570.9	571.7	572.4	573.2	573.9	574.2
125°	628.8	629.3	629.7	630.2	630.6	631.0	631.5	631.9	632.4	632.8	633.0
127.5°	686.1	686.5	686.8	687.2	687.5	687.9	688.4	688.8	689.3	689.7	690.1
130°	723.6	724.5	725.4	726.3	727.2	727.9	728.3	728.8	729.2	729.6	729.6
132.5°	763.6	763.9	764.3	764.6	765.0	765.4	765.8	766.3	766.7	767.2	767.3
135°	818.5	819.1	819.8	820.5	821.1	821.7	822.1	822.6	823.0	823.5	823.5
137.5°	876.2	876.0	875.9	875.8	875.6	875.9	876.4	877.0	877.6	878.2	877.8
140°	911.3	911.5	911.7	912.0	912.2	912.4	912.6	912.9	913.1	913.3	913.3
142.5°	946.4	946.5	946.5	946.6	946.6	946.7	946.7	946.7	946.8	946.8	947.0
145°	994.1	994.8	995.5	996.1	996.8	997.2	997.5	997.7	997.9	998.1	997.9
147.5°	1042.5	1042.7	1042.9	1043.1	1043.3	1043.5	1043.7	1043.9	1044.1	1044.3	1044.4
150°	1072.0	1072.2	1072.4	1072.7	1072.9	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0
152.5°	1099.1	1099.7	1100.3	1100.9	1101.5	1101.5	1100.9	1100.4	1099.9	1099.3	1099.2
155°	1136.9	1137.8	1138.7	1139.5	1140.4	1140.4	1139.5	1138.7	1137.8	1136.9	1137.1
157.5°	1170.6	1171.4	1172.1	1172.9	1173.6	1173.7	1173.0	1172.3	1171.7	1171.0	1171.1
160°	1189.8	1190.9	1192.0	1193.1	1194.2	1194.4	1193.8	1193.1	1192.4	1191.8	1192.0
162.5°	1209.7	1210.9	1212.0	1213.1	1214.2	1214.1	1212.9	1211.7	1210.5	1209.3	1209.6
165°	1235.7	1236.6	1237.5	1238.4	1239.2	1239.0	1237.7	1236.4	1235.0	1233.7	1234.1
167.5°	1254.3	1255.6	1257.0	1258.4	1259.8	1259.8	1258.5	1257.1	1255.8	1254.5	1254.4
170°	1264.6	1266.2	1267.7	1269.3	1270.8	1271.0	1269.6	1268.3	1267.0	1265.6	1265.4
172.5°	1273.4	1275.0	1276.5	1278.1	1279.6	1279.7	1278.1	1276.6	1275.1	1273.6	1273.6
175°	1282.6	1284.2	1285.7	1287.3	1288.8	1288.8	1287.3	1285.7	1284.2	1282.6	1282.8
177.5°	1287.4	1288.8	1290.2	1291.7	1293.1	1293.2	1291.9	1290.7	1289.4	1288.2	1288.2
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1989.3	1980.4	1974.0	1968.9	1954.8	1946.5	1940.1	1931.2	1921.0	1910.1	1896.7
5°	2102.2	2075.1	2055.1	2024.8	1996.0	1972.1	1947.3	1925.0	1897.8	1868.3	1846.7
7.5°	2220.9	2180.5	2128.7	2083.9	2033.4	1989.5	1950.2	1910.0	1868.1	1827.6	1790.4
10°	2296.2	2244.3	2186.8	2119.0	2055.1	1998.4	1945.7	1894.6	1845.1	1795.6	1753.3
12.5°	2377.4	2312.7	2227.7	2148.4	2076.8	2001.0	1937.4	1874.8	1815.1	1763.1	1713.7
15°	2486.3	2392.8	2294.6	2188.4	2094.2	2005.6	1918.6	1839.5	1772.5	1703.8	1655.9
17.5°	2553.2	2437.6	2325.3	2214.3	2100.3	1988.5	1894.6	1803.5	1719.5	1651.3	1590.9
20°	2597.2	2482.3	2342.5	2231.6	2095.8	1980.9	1872.3	1770.9	1683.1	1610.4	1548.1
22.5°	2635.6	2502.7	2363.0	2216.9	2081.8	1959.8	1841.0	1738.9	1649.2	1572.7	1513.0
25°	2656.3	2503.8	2352.1	2206.8	2053.5	1909.0	1801.2	1681.5	1585.6	1505.0	1441.1
27.5°	2658.6	2495.5	2323.9	2162.4	2004.2	1869.6	1733.5	1626.5	1527.0	1441.8	1380.5
30°	2651.5	2481.5	2297.0	2122.2	1963.3	1817.2	1699.0	1582.5	1481.1	1396.4	1332.5
32.5°	2629.2	2452.1	2262.5	2077.5	1912.8	1769.9	1647.9	1537.1	1438.3	1354.9	1287.8
35°	2564.5	2389.6	2187.6	1995.2	1826.8	1682.3	1572.1	1459.5	1360.5	1281.5	1216.8
37.5°	2463.4	2305.3	2100.0	1900.9	1735.4	1590.3	1481.1	1379.3	1290.1	1209.8	1143.5
40°	2375.3	2236.4	2030.4	1836.3	1657.5	1519.4	1417.2	1323.8	1235.1	1159.3	1096.2
42.5°	2273.7	2152.7	1962.7	1757.1	1584.7	1445.9	1346.3	1262.4	1178.9	1108.8	1045.8
45°	2092.6	2012.8	1834.0	1643.9	1464.3	1333.3	1238.3	1164.9	1094.6	1026.0	973.3
47.5°	1884.4	1844.8	1694.2	1513.8	1343.2	1214.2	1131.8	1064.0	1002.3	944.2	897.7
50°	1744.5	1725.4	1595.2	1421.2	1258.3	1136.9	1053.9	995.6	942.9	891.8	847.9
52.5°	1606.6	1605.9	1488.6	1329.2	1178.5	1061.6	979.2	924.7	879.1	837.5	798.1
55°	1395.6	1418.0	1326.2	1184.0	1049.1	943.7	869.5	820.8	788.8	754.5	725.0
57.5°	1201.9	1239.0	1163.3	1038.1	925.5	828.4	763.8	727.2	693.2	672.4	650.9
60°	1075.5	1110.6	1051.5	946.1	839.9	756.9	695.4	662.7	633.1	618.8	603.6
62.5°	963.0	994.3	950.6	852.9	760.7	680.9	629.0	597.5	577.6	561.9	551.9
65°	802.4	828.8	791.2	720.2	641.1	577.3	534.9	510.2	491.0	484.6	473.5
67.5°	648.6	672.6	652.3	591.9	528.5	480.2	447.1	423.3	412.0	406.4	398.4
70°	557.3	581.2	559.7	507.0	458.3	417.6	386.4	372.9	360.9	358.5	347.3
72.5°	480.0	496.3	474.7	433.5	391.9	357.5	333.4	319.2	313.0	308.7	302.6
75°	360.1	374.5	360.1	328.1	298.6	274.7	253.9	248.3	241.1	238.7	234.7
77.5°	254.9	267.3	256.3	236.3	214.3	195.8	184.6	177.4	175.8	171.7	173.6
80°	194.8	202.8	192.4	178.8	161.3	148.5	140.5	136.5	131.7	130.1	133.3
82.5°	139.9	143.4	138.1	129.0	115.9	107.6	102.2	97.6	96.6	96.9	96.9
85°	72.7	71.9	71.1	63.1	59.1	53.5	50.3	49.5	48.7	50.3	51.9
87.5°	28.0	28.2	27.2	24.3	21.9	19.5	18.3	17.2	18.3	19.5	20.6
90°	18.4	16.6	14.9	12.8	10.3	7.9	5.4	3.0	5.4	7.9	10.3
92.5°	37.0	35.8	34.6	32.5	29.7	26.9	24.2	21.4	24.2	26.9	29.7
95°	72.8	71.2	69.6	67.9	65.9	63.9	61.9	59.9	61.9	63.9	65.9
97.5°	116.3	114.5	112.7	111.0	109.4	107.8	106.2	104.6	106.2	107.8	109.4
100°	148.7	146.7	144.7	143.3	142.4	141.5	140.6	139.7	140.6	141.5	142.4
102.5°	182.6	180.8	179.0	177.9	177.5	177.2	176.8	176.5	176.8	177.2	177.5
105°	235.8	234.9	234.0	233.5	233.2	233.0	232.8	232.6	232.8	233.0	233.2
107.5°	293.0	292.9	292.7	292.5	292.3	292.0	291.7	291.5	291.7	292.0	292.3
110°	332.8	333.0	333.3	333.2	332.7	332.3	331.8	331.4	331.8	332.3	332.7



TEST NUMBER: P332698

CATALOG NUMBER: S124DIP-S1195D1035U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	372.3	372.7	373.1	373.3	373.2	373.1	373.0	372.9	373.0	373.1	373.2
115°	434.1	434.5	435.0	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2
117.5°	493.9	494.2	494.5	494.6	494.4	494.2	494.1	493.9	494.1	494.2	494.4
120°	535.3	536.0	536.7	536.6	535.7	534.8	533.9	533.0	533.9	534.8	535.7
122.5°	574.5	574.9	575.2	575.1	574.8	574.4	574.1	573.7	574.1	574.4	574.8
125°	633.3	633.5	633.7	633.8	633.8	633.8	633.8	633.8	633.8	633.8	633.8
127.5°	690.4	690.8	691.1	691.0	690.3	689.6	689.0	688.3	689.0	689.6	690.3
130°	729.6	729.6	729.6	729.3	728.6	728.0	727.3	726.6	727.3	728.0	728.6
132.5°	767.5	767.7	767.9	767.7	767.2	766.7	766.3	765.8	766.3	766.7	767.2
135°	823.5	823.5	823.5	822.8	821.5	820.1	818.8	817.5	818.8	820.1	821.5
137.5°	877.5	877.1	876.7	876.3	875.6	875.0	874.4	873.8	874.4	875.0	875.6
140°	913.3	913.3	913.3	913.1	912.6	912.2	911.7	911.3	911.7	912.2	912.6
142.5°	947.2	947.4	947.5	947.4	947.0	946.5	946.1	945.6	946.1	946.5	947.0
145°	997.7	997.5	997.2	996.7	995.8	994.9	994.0	993.1	994.0	994.9	995.8
147.5°	1044.6	1044.8	1045.0	1044.5	1043.5	1042.4	1041.3	1040.3	1041.3	1042.4	1043.5
150°	1073.0	1073.0	1073.0	1072.6	1071.7	1070.8	1069.9	1069.0	1069.9	1070.8	1071.7
152.5°	1099.0	1098.8	1098.6	1098.3	1097.8	1097.2	1096.7	1096.2	1096.7	1097.2	1097.8
155°	1137.3	1137.5	1137.8	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9
157.5°	1171.1	1171.1	1171.2	1171.4	1171.8	1172.2	1172.6	1173.0	1172.6	1172.2	1171.8
160°	1192.2	1192.4	1192.7	1192.9	1193.1	1193.3	1193.5	1193.8	1193.5	1193.3	1193.1
162.5°	1209.8	1210.0	1210.2	1210.6	1211.2	1211.8	1212.4	1212.9	1212.4	1211.8	1211.2
165°	1234.6	1235.0	1235.5	1236.0	1236.7	1237.4	1238.0	1238.7	1238.0	1237.4	1236.7
167.5°	1254.4	1254.3	1254.3	1254.7	1255.7	1256.6	1257.5	1258.5	1257.5	1256.6	1255.7
170°	1265.2	1265.0	1264.7	1265.2	1266.3	1267.4	1268.5	1269.6	1268.5	1267.4	1266.3
172.5°	1273.5	1273.5	1273.4	1273.9	1274.8	1275.8	1276.7	1277.6	1276.7	1275.8	1274.8
175°	1283.0	1283.3	1283.5	1284.2	1285.3	1286.4	1287.5	1288.6	1287.5	1286.4	1285.3
177.5°	1288.2	1288.2	1288.2	1288.6	1289.5	1290.4	1291.3	1292.2	1291.3	1290.4	1289.5
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6



TEST NUMBER: P332698

CATALOG NUMBER: S124DIP-S1195D1035U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1890.3	1884.6	1876.3	1864.8	1855.2	1845.0	1842.4	1838.6	1846.2	1839.9	1837.9
5°	1828.4	1811.6	1790.0	1765.3	1750.9	1730.2	1726.2	1718.2	1710.2	1709.4	1701.4
7.5°	1762.7	1738.1	1709.9	1684.6	1661.3	1638.7	1623.8	1620.6	1608.8	1601.9	1593.9
10°	1720.6	1690.2	1657.5	1633.6	1606.4	1582.5	1565.7	1556.1	1548.1	1539.3	1531.4
12.5°	1670.8	1638.5	1611.5	1585.6	1553.4	1535.2	1507.6	1491.0	1489.4	1489.5	1468.8
15°	1612.8	1580.9	1539.3	1502.6	1485.0	1449.9	1434.7	1415.6	1403.6	1391.6	1382.1
17.5°	1546.5	1506.8	1474.3	1432.2	1398.7	1370.7	1350.8	1339.3	1321.2	1304.3	1292.0
20°	1505.0	1462.7	1428.4	1383.6	1346.9	1312.6	1295.8	1279.9	1266.3	1251.9	1238.3
22.5°	1462.8	1418.6	1376.6	1333.2	1299.0	1262.8	1246.6	1224.9	1212.0	1204.0	1190.4
25°	1396.4	1348.5	1300.6	1259.1	1224.0	1192.0	1170.5	1153.7	1139.3	1132.9	1124.2
27.5°	1324.2	1276.7	1230.4	1183.2	1143.3	1120.2	1102.9	1090.3	1082.0	1073.5	1069.6
30°	1278.3	1228.8	1179.3	1135.3	1098.6	1075.5	1059.5	1050.7	1044.3	1040.3	1036.3
32.5°	1231.6	1182.8	1130.7	1090.6	1057.7	1037.1	1025.0	1016.2	1013.0	1011.6	1010.2
35°	1156.9	1107.4	1059.5	1023.6	992.4	984.4	974.1	969.3	967.7	973.3	975.7
37.5°	1084.6	1038.6	994.5	959.7	939.3	927.6	924.1	924.2	930.0	934.9	940.7
40°	1037.9	993.2	951.7	921.4	902.2	895.0	893.4	897.4	903.8	909.4	915.8
42.5°	992.6	948.5	910.8	882.4	869.0	862.4	863.4	867.4	876.3	883.2	892.8
45°	922.2	885.4	848.7	825.6	814.4	816.0	816.0	823.2	831.9	842.3	852.7
47.5°	855.9	818.9	788.7	769.2	763.4	762.0	766.5	775.9	788.5	801.3	815.8
50°	811.2	776.1	749.7	732.1	725.8	728.2	734.5	743.3	758.5	774.5	789.6
52.5°	765.8	733.9	709.5	693.2	688.7	693.0	699.4	713.3	726.6	743.8	762.2
55°	695.4	668.3	649.1	637.1	635.5	637.9	645.1	660.3	679.4	701.0	718.6
57.5°	625.3	602.6	585.1	576.8	577.6	579.8	591.6	609.7	630.1	653.1	675.8
60°	578.0	557.3	542.9	536.5	537.3	542.1	556.5	573.3	598.8	621.2	645.1
62.5°	533.3	515.1	501.4	495.7	494.5	505.1	518.8	536.2	561.8	586.7	612.5
65°	461.5	447.1	435.9	432.7	435.1	443.1	460.7	483.8	505.4	531.7	558.9
67.5°	391.2	379.4	371.7	373.2	376.1	387.9	402.6	422.5	447.0	474.3	501.1
70°	346.5	335.3	328.9	329.7	334.5	348.9	361.7	381.6	408.0	435.9	458.3
72.5°	300.5	293.2	287.4	290.8	295.6	305.5	321.4	341.4	364.6	390.6	414.2
75°	230.7	230.7	227.5	229.9	237.1	246.7	258.7	279.4	302.6	323.4	342.5
77.5°	171.2	169.4	171.5	174.4	178.5	189.9	203.6	218.4	235.9	256.6	272.4
80°	130.9	131.7	135.7	140.5	142.1	150.9	165.3	178.8	192.4	210.0	225.2
82.5°	98.4	99.2	101.2	107.3	108.9	118.3	127.6	141.2	153.5	165.3	177.9
85°	53.5	53.5	57.5	59.9	63.9	70.3	75.8	83.8	95.0	103.0	115.0
87.5°	23.0	23.4	26.3	28.0	30.2	33.8	35.3	42.6	45.4	48.9	54.8
90°	12.8	14.9	16.6	18.4	20.2	22.0	23.3	24.6	26.0	27.3	28.2
92.5°	32.5	34.6	35.8	37.0	38.3	39.5	40.3	41.1	41.9	42.7	43.3
95°	67.9	69.6	71.2	72.8	74.3	75.9	76.5	77.2	77.9	78.5	78.9
97.5°	111.0	112.7	114.5	116.3	118.2	120.0	120.8	121.6	122.4	123.2	123.6
100°	143.3	144.7	146.7	148.7	150.7	152.7	153.2	153.6	154.0	154.5	154.7
102.5°	177.9	179.0	180.8	182.6	184.4	186.3	186.9	187.5	188.1	188.7	189.1
105°	233.5	234.0	234.9	235.8	236.7	237.6	238.2	238.9	239.6	240.2	240.9
107.5°	292.5	292.7	292.9	293.0	293.1	293.3	293.9	294.5	295.1	295.7	296.0
110°	333.2	333.3	333.0	332.8	332.6	332.4	331.9	331.5	331.0	330.6	330.7



TEST NUMBER: P332698

CATALOG NUMBER: S124DIP-S1195D1035U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	373.3	373.1	372.7	372.3	371.9	371.5	371.4	371.3	371.2	371.2	371.2
115°	435.2	435.0	434.5	434.1	433.6	433.2	433.0	432.7	432.5	432.3	432.1
117.5°	494.6	494.5	494.2	493.9	493.6	493.3	492.5	491.8	491.0	490.3	489.7
120°	536.6	536.7	536.0	535.3	534.7	534.0	532.9	531.8	530.7	529.6	529.2
122.5°	575.1	575.2	574.9	574.5	574.2	573.9	573.2	572.4	571.7	570.9	570.1
125°	633.8	633.7	633.5	633.3	633.0	632.8	632.4	631.9	631.5	631.0	630.6
127.5°	691.0	691.1	690.8	690.4	690.1	689.7	689.3	688.8	688.4	687.9	687.5
130°	729.3	729.6	729.6	729.6	729.6	729.6	729.2	728.8	728.3	727.9	727.2
132.5°	767.7	767.9	767.7	767.5	767.3	767.2	766.7	766.3	765.8	765.4	765.0
135°	822.8	823.5	823.5	823.5	823.5	823.5	823.0	822.6	822.1	821.7	821.1
137.5°	876.3	876.7	877.1	877.5	877.8	878.2	877.6	877.0	876.4	875.9	875.6
140°	913.1	913.3	913.3	913.3	913.3	913.3	913.1	912.9	912.6	912.4	912.2
142.5°	947.4	947.5	947.4	947.2	947.0	946.8	946.8	946.7	946.7	946.7	946.6
145°	996.7	997.2	997.5	997.7	997.9	998.1	997.9	997.7	997.5	997.2	996.8
147.5°	1044.5	1045.0	1044.8	1044.6	1044.4	1044.3	1044.1	1043.9	1043.7	1043.5	1043.3
150°	1072.6	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1072.9
152.5°	1098.3	1098.6	1098.8	1099.0	1099.2	1099.3	1099.9	1100.4	1100.9	1101.5	1101.5
155°	1137.9	1137.8	1137.5	1137.3	1137.1	1136.9	1137.8	1138.7	1139.5	1140.4	1140.4
157.5°	1171.4	1171.2	1171.1	1171.1	1171.1	1171.0	1171.7	1172.3	1173.0	1173.7	1173.6
160°	1192.9	1192.7	1192.4	1192.2	1192.0	1191.8	1192.4	1193.1	1193.8	1194.4	1194.2
162.5°	1210.6	1210.2	1210.0	1209.8	1209.6	1209.3	1210.5	1211.7	1212.9	1214.1	1214.2
165°	1236.0	1235.5	1235.0	1234.6	1234.1	1233.7	1235.0	1236.4	1237.7	1239.0	1239.2
167.5°	1254.7	1254.3	1254.3	1254.4	1254.4	1254.5	1255.8	1257.1	1258.5	1259.8	1259.8
170°	1265.2	1264.7	1265.0	1265.2	1265.4	1265.6	1267.0	1268.3	1269.6	1271.0	1270.8
172.5°	1273.9	1273.4	1273.5	1273.5	1273.6	1273.6	1275.1	1276.6	1278.1	1279.7	1279.6
175°	1284.2	1283.5	1283.3	1283.0	1282.8	1282.6	1284.2	1285.7	1287.3	1288.8	1288.8
177.5°	1288.6	1288.2	1288.2	1288.2	1288.2	1288.2	1289.4	1290.7	1291.9	1293.2	1293.1
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6



TEST NUMBER: P332698

CATALOG NUMBER: S124DIP-S1195D1035U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1836.7	1835.4	1830.9	1830.3	1830.9	1835.4	1836.7	1837.9	1839.9	1846.2	1838.6
5°	1696.6	1692.6	1690.2	1699.0	1690.2	1692.6	1696.6	1701.4	1709.4	1710.2	1718.2
7.5°	1591.1	1587.9	1580.9	1578.6	1580.9	1587.9	1591.1	1593.9	1601.9	1608.8	1620.6
10°	1523.4	1520.2	1513.8	1512.2	1513.8	1520.2	1523.4	1531.4	1539.3	1548.1	1556.1
12.5°	1458.2	1451.8	1450.6	1452.2	1450.6	1451.8	1458.2	1468.8	1489.5	1489.4	1491.0
15°	1371.7	1368.5	1359.7	1362.1	1359.7	1368.5	1371.7	1382.1	1391.6	1403.6	1415.6
17.5°	1286.4	1282.6	1271.9	1281.3	1271.9	1282.6	1286.4	1292.0	1304.3	1321.2	1339.3
20°	1232.7	1226.4	1220.8	1220.0	1220.8	1226.4	1232.7	1238.3	1251.9	1266.3	1279.9
22.5°	1181.6	1175.9	1175.4	1170.2	1175.4	1175.9	1181.6	1190.4	1204.0	1212.0	1224.9
25°	1117.8	1112.2	1110.6	1106.6	1110.6	1112.2	1117.8	1124.2	1132.9	1139.3	1153.7
27.5°	1068.8	1066.0	1063.2	1064.4	1063.2	1066.0	1068.8	1069.6	1073.5	1082.0	1090.3
30°	1038.7	1037.9	1036.3	1036.3	1036.3	1037.9	1038.7	1036.3	1040.3	1044.3	1050.7
32.5°	1013.8	1013.7	1014.6	1014.6	1014.6	1013.7	1013.8	1010.2	1011.6	1013.0	1016.2
35°	978.9	981.2	982.8	980.4	982.8	981.2	978.9	975.7	973.3	967.7	969.3
37.5°	947.2	949.6	951.9	954.6	951.9	949.6	947.2	940.7	934.9	930.0	924.2
40°	923.0	928.6	930.1	934.1	930.1	928.6	923.0	915.8	909.4	903.8	897.4
42.5°	900.0	906.2	910.3	911.1	910.3	906.2	900.0	892.8	883.2	876.3	867.4
45°	864.7	871.1	876.7	876.7	876.7	871.1	864.7	852.7	842.3	831.9	823.2
47.5°	828.1	837.4	843.0	844.4	843.0	837.4	828.1	815.8	801.3	788.5	775.9
50°	803.2	814.4	820.0	824.0	820.0	814.4	803.2	789.6	774.5	758.5	743.3
52.5°	778.9	790.1	797.6	799.7	797.6	790.1	778.9	762.2	743.8	726.6	713.3
55°	736.9	752.9	761.7	764.9	761.7	752.9	736.9	718.6	701.0	679.4	660.3
57.5°	697.3	712.0	722.2	724.6	722.2	712.0	697.3	675.8	653.1	630.1	609.7
60°	666.7	682.6	695.4	697.8	695.4	682.6	666.7	645.1	621.2	598.8	573.3
62.5°	635.4	652.0	663.5	669.7	663.5	652.0	635.4	612.5	586.7	561.8	536.2
65°	581.2	598.0	609.2	611.6	609.2	598.0	581.2	558.9	531.7	505.4	483.8
67.5°	522.2	538.9	546.3	550.9	546.3	538.9	522.2	501.1	474.3	447.0	422.5
70°	480.6	494.2	502.2	506.2	502.2	494.2	480.6	458.3	435.9	408.0	381.6
72.5°	433.4	447.6	456.9	457.6	456.9	447.6	433.4	414.2	390.6	364.6	341.4
75°	360.9	373.7	378.4	378.4	378.4	373.7	360.9	342.5	323.4	302.6	279.4
77.5°	285.7	292.2	298.3	299.6	298.3	292.2	285.7	272.4	256.6	235.9	218.4
80°	237.1	241.1	245.9	245.9	245.9	241.1	237.1	225.2	210.0	192.4	178.8
82.5°	187.3	190.7	195.5	194.8	195.5	190.7	187.3	177.9	165.3	153.5	141.2
85°	113.4	120.6	119.8	118.2	119.8	120.6	113.4	115.0	103.0	95.0	83.8
87.5°	56.8	57.5	59.6	60.9	59.6	57.5	56.8	54.8	48.9	45.4	42.6
90°	28.6	29.1	29.5	29.9	29.5	29.1	28.6	28.2	27.3	26.0	24.6
92.5°	43.5	43.8	44.1	44.3	44.1	43.8	43.5	43.3	42.7	41.9	41.1
95°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.5	77.9	77.2
97.5°	123.6	123.6	123.6	123.6	123.6	123.6	123.6	123.6	123.2	122.4	121.6
100°	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.5	154.0	153.6
102.5°	189.3	189.5	189.7	189.8	189.7	189.5	189.3	189.1	188.7	188.1	187.5
105°	241.5	242.2	242.9	243.5	242.9	242.2	241.5	240.9	240.2	239.6	238.9
107.5°	296.0	295.9	295.9	295.8	295.9	295.9	296.0	296.0	295.7	295.1	294.5
110°	331.4	332.0	332.7	333.4	332.7	332.0	331.4	330.7	330.6	331.0	331.5



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CATALOG NUMBER: S124DIP-S1195D1035U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	371.3	371.4	371.6	371.7	371.6	371.4	371.3	371.2	371.2	371.2	371.3
115°	431.9	431.6	431.4	431.2	431.4	431.6	431.9	432.1	432.3	432.5	432.7
117.5°	489.2	488.8	488.3	487.9	488.3	488.8	489.2	489.7	490.3	491.0	491.8
120°	529.7	530.1	530.6	531.0	530.6	530.1	529.7	529.2	529.6	530.7	531.8
122.5°	569.3	568.5	567.7	566.9	567.7	568.5	569.3	570.1	570.9	571.7	572.4
125°	630.2	629.7	629.3	628.8	629.3	629.7	630.2	630.6	631.0	631.5	631.9
127.5°	687.2	686.8	686.5	686.1	686.5	686.8	687.2	687.5	687.9	688.4	688.8
130°	726.3	725.4	724.5	723.6	724.5	725.4	726.3	727.2	727.9	728.3	728.8
132.5°	764.6	764.3	763.9	763.6	763.9	764.3	764.6	765.0	765.4	765.8	766.3
135°	820.5	819.8	819.1	818.5	819.1	819.8	820.5	821.1	821.7	822.1	822.6
137.5°	875.8	875.9	876.0	876.2	876.0	875.9	875.8	875.6	875.9	876.4	877.0
140°	912.0	911.7	911.5	911.3	911.5	911.7	912.0	912.2	912.4	912.6	912.9
142.5°	946.6	946.5	946.5	946.4	946.5	946.5	946.6	946.6	946.7	946.7	946.7
145°	996.1	995.5	994.8	994.1	994.8	995.5	996.1	996.8	997.2	997.5	997.7
147.5°	1043.1	1042.9	1042.7	1042.5	1042.7	1042.9	1043.1	1043.3	1043.5	1043.7	1043.9
150°	1072.7	1072.4	1072.2	1072.0	1072.2	1072.4	1072.7	1072.9	1073.0	1073.0	1073.0
152.5°	1100.9	1100.3	1099.7	1099.1	1099.7	1100.3	1100.9	1101.5	1101.5	1100.9	1100.4
155°	1139.5	1138.7	1137.8	1136.9	1137.8	1138.7	1139.5	1140.4	1140.4	1139.5	1138.7
157.5°	1172.9	1172.1	1171.4	1170.6	1171.4	1172.1	1172.9	1173.6	1173.7	1173.0	1172.3
160°	1193.1	1192.0	1190.9	1189.8	1190.9	1192.0	1193.1	1194.2	1194.4	1193.8	1193.1
162.5°	1213.1	1212.0	1210.9	1209.7	1210.9	1212.0	1213.1	1214.2	1214.1	1212.9	1211.7
165°	1238.4	1237.5	1236.6	1235.7	1236.6	1237.5	1238.4	1239.2	1239.0	1237.7	1236.4
167.5°	1258.4	1257.0	1255.6	1254.3	1255.6	1257.0	1258.4	1259.8	1259.8	1258.5	1257.1
170°	1269.3	1267.7	1266.2	1264.6	1266.2	1267.7	1269.3	1270.8	1271.0	1269.6	1268.3
172.5°	1278.1	1276.5	1275.0	1273.4	1275.0	1276.5	1278.1	1279.6	1279.7	1278.1	1276.6
175°	1287.3	1285.7	1284.2	1282.6	1284.2	1285.7	1287.3	1288.8	1288.8	1287.3	1285.7
177.5°	1291.7	1290.2	1288.8	1287.4	1288.8	1290.2	1291.7	1293.1	1293.2	1291.9	1290.7
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6



TEST NUMBER: P332698

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1842.4	1845.0	1855.2	1864.8	1876.3	1884.6	1890.3	1896.7	1910.1	1921.0	1931.2
5°	1726.2	1730.2	1750.9	1765.3	1790.0	1811.6	1828.4	1846.7	1868.3	1897.8	1925.0
7.5°	1623.8	1638.7	1661.3	1684.6	1709.9	1738.1	1762.7	1790.4	1827.6	1868.1	1910.0
10°	1565.7	1582.5	1606.4	1633.6	1657.5	1690.2	1720.6	1753.3	1795.6	1845.1	1894.6
12.5°	1507.6	1535.2	1553.4	1585.6	1611.5	1638.5	1670.8	1713.7	1763.1	1815.1	1874.8
15°	1434.7	1449.9	1485.0	1502.6	1539.3	1580.9	1612.8	1655.9	1703.8	1772.5	1839.5
17.5°	1350.8	1370.7	1398.7	1432.2	1474.3	1506.8	1546.5	1590.9	1651.3	1719.5	1803.5
20°	1295.8	1312.6	1346.9	1383.6	1428.4	1462.7	1505.0	1548.1	1610.4	1683.1	1770.9
22.5°	1246.6	1262.8	1299.0	1333.2	1376.6	1418.6	1462.8	1513.0	1572.7	1649.2	1738.9
25°	1170.5	1192.0	1224.0	1259.1	1300.6	1348.5	1396.4	1441.1	1505.0	1585.6	1681.5
27.5°	1102.9	1120.2	1143.3	1183.2	1230.4	1276.7	1324.2	1380.5	1441.8	1527.0	1626.5
30°	1059.5	1075.5	1098.6	1135.3	1179.3	1228.8	1278.3	1332.5	1396.4	1481.1	1582.5
32.5°	1025.0	1037.1	1057.7	1090.6	1130.7	1182.8	1231.6	1287.8	1354.9	1438.3	1537.1
35°	974.1	984.4	992.4	1023.6	1059.5	1107.4	1156.9	1216.8	1281.5	1360.5	1459.5
37.5°	924.1	927.6	939.3	959.7	994.5	1038.6	1084.6	1143.5	1209.8	1290.1	1379.3
40°	893.4	895.0	902.2	921.4	951.7	993.2	1037.9	1096.2	1159.3	1235.1	1323.8
42.5°	863.4	862.4	869.0	882.4	910.8	948.5	992.6	1045.8	1108.8	1178.9	1262.4
45°	816.0	816.0	814.4	825.6	848.7	885.4	922.2	973.3	1026.0	1094.6	1164.9
47.5°	766.5	762.0	763.4	769.2	788.7	818.9	855.9	897.7	944.2	1002.3	1064.0
50°	734.5	728.2	725.8	732.1	749.7	776.1	811.2	847.9	891.8	942.9	995.6
52.5°	699.4	693.0	688.7	693.2	709.5	733.9	765.8	798.1	837.5	879.1	924.7
55°	645.1	637.9	635.5	637.1	649.1	668.3	695.4	725.0	754.5	788.8	820.8
57.5°	591.6	579.8	577.6	576.8	585.1	602.6	625.3	650.9	672.4	693.2	727.2
60°	556.5	542.1	537.3	536.5	542.9	557.3	578.0	603.6	618.8	633.1	662.7
62.5°	518.8	505.1	494.5	495.7	501.4	515.1	533.3	551.9	561.9	577.6	597.5
65°	460.7	443.1	435.1	432.7	435.9	447.1	461.5	473.5	484.6	491.0	510.2
67.5°	402.6	387.9	376.1	373.2	371.7	379.4	391.2	398.4	406.4	412.0	423.3
70°	361.7	348.9	334.5	329.7	328.9	335.3	346.5	347.3	358.5	360.9	372.9
72.5°	321.4	305.5	295.6	290.8	287.4	293.2	300.5	302.6	308.7	313.0	319.2
75°	258.7	246.7	237.1	229.9	227.5	230.7	230.7	234.7	238.7	241.1	248.3
77.5°	203.6	189.9	178.5	174.4	171.5	169.4	171.2	173.6	171.7	175.8	177.4
80°	165.3	150.9	142.1	140.5	135.7	131.7	130.9	133.3	130.1	131.7	136.5
82.5°	127.6	118.3	108.9	107.3	101.2	99.2	98.4	96.9	96.9	96.6	97.6
85°	75.8	70.3	63.9	59.9	57.5	53.5	53.5	51.9	50.3	48.7	49.5
87.5°	35.3	33.8	30.2	28.0	26.3	23.4	23.0	20.6	19.5	18.3	17.2
90°	23.3	22.0	20.2	18.4	16.6	14.9	12.8	10.3	7.9	5.4	3.0
92.5°	40.3	39.5	38.3	37.0	35.8	34.6	32.5	29.7	26.9	24.2	21.4
95°	76.5	75.9	74.3	72.8	71.2	69.6	67.9	65.9	63.9	61.9	59.9
97.5°	120.8	120.0	118.2	116.3	114.5	112.7	111.0	109.4	107.8	106.2	104.6
100°	153.2	152.7	150.7	148.7	146.7	144.7	143.3	142.4	141.5	140.6	139.7
102.5°	186.9	186.3	184.4	182.6	180.8	179.0	177.9	177.5	177.2	176.8	176.5
105°	238.2	237.6	236.7	235.8	234.9	234.0	233.5	233.2	233.0	232.8	232.6
107.5°	293.9	293.3	293.1	293.0	292.9	292.7	292.5	292.3	292.0	291.7	291.5
110°	331.9	332.4	332.6	332.8	333.0	333.3	333.2	332.7	332.3	331.8	331.4



TEST NUMBER: P332698

CATALOG NUMBER: S124DIP-S1195D1035U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	371.4	371.5	371.9	372.3	372.7	373.1	373.3	373.2	373.1	373.0	372.9
115°	433.0	433.2	433.6	434.1	434.5	435.0	435.2	435.2	435.2	435.2	435.2
117.5°	492.5	493.3	493.6	493.9	494.2	494.5	494.6	494.4	494.2	494.1	493.9
120°	532.9	534.0	534.7	535.3	536.0	536.7	536.6	535.7	534.8	533.9	533.0
122.5°	573.2	573.9	574.2	574.5	574.9	575.2	575.1	574.8	574.4	574.1	573.7
125°	632.4	632.8	633.0	633.3	633.5	633.7	633.8	633.8	633.8	633.8	633.8
127.5°	689.3	689.7	690.1	690.4	690.8	691.1	691.0	690.3	689.6	689.0	688.3
130°	729.2	729.6	729.6	729.6	729.6	729.6	729.3	728.6	728.0	727.3	726.6
132.5°	766.7	767.2	767.3	767.5	767.7	767.9	767.7	767.2	766.7	766.3	765.8
135°	823.0	823.5	823.5	823.5	823.5	823.5	822.8	821.5	820.1	818.8	817.5
137.5°	877.6	878.2	877.8	877.5	877.1	876.7	876.3	875.6	875.0	874.4	873.8
140°	913.1	913.3	913.3	913.3	913.3	913.3	913.1	912.6	912.2	911.7	911.3
142.5°	946.8	946.8	947.0	947.2	947.4	947.5	947.4	947.0	946.5	946.1	945.6
145°	997.9	998.1	997.9	997.7	997.5	997.2	996.7	995.8	994.9	994.0	993.1
147.5°	1044.1	1044.3	1044.4	1044.6	1044.8	1045.0	1044.5	1043.5	1042.4	1041.3	1040.3
150°	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1072.6	1071.7	1070.8	1069.9	1069.0
152.5°	1099.9	1099.3	1099.2	1099.0	1098.8	1098.6	1098.3	1097.8	1097.2	1096.7	1096.2
155°	1137.8	1136.9	1137.1	1137.3	1137.5	1137.8	1137.9	1137.9	1137.9	1137.9	1137.9
157.5°	1171.7	1171.0	1171.1	1171.1	1171.1	1171.2	1171.4	1171.8	1172.2	1172.6	1173.0
160°	1192.4	1191.8	1192.0	1192.2	1192.4	1192.7	1192.9	1193.1	1193.3	1193.5	1193.8
162.5°	1210.5	1209.3	1209.6	1209.8	1210.0	1210.2	1210.6	1211.2	1211.8	1212.4	1212.9
165°	1235.0	1233.7	1234.1	1234.6	1235.0	1235.5	1236.0	1236.7	1237.4	1238.0	1238.7
167.5°	1255.8	1254.5	1254.4	1254.4	1254.3	1254.3	1254.7	1255.7	1256.6	1257.5	1258.5
170°	1267.0	1265.6	1265.4	1265.2	1265.0	1264.7	1265.2	1266.3	1267.4	1268.5	1269.6
172.5°	1275.1	1273.6	1273.6	1273.5	1273.5	1273.4	1273.9	1274.8	1275.8	1276.7	1277.6
175°	1284.2	1282.6	1282.8	1283.0	1283.3	1283.5	1284.2	1285.3	1286.4	1287.5	1288.6
177.5°	1289.4	1288.2	1288.2	1288.2	1288.2	1288.2	1288.6	1289.5	1290.4	1291.3	1292.2
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6



TEST NUMBER: P332698

CATALOG NUMBER: S124DIP-S1195D1035U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1940.1	1946.5	1954.8	1968.9	1974.0	1980.4	1989.3	1988.7	1991.2	2000.8	2021.3
5°	1947.3	1972.1	1996.0	2024.8	2055.1	2075.1	2102.2	2119.0	2135.8	2157.3	2194.0
7.5°	1950.2	1989.5	2033.4	2083.9	2128.7	2180.5	2220.9	2258.9	2293.2	2338.7	2382.5
10°	1945.7	1998.4	2055.1	2119.0	2186.8	2244.3	2296.2	2355.3	2405.6	2460.7	2510.2
12.5°	1937.4	2001.0	2076.8	2148.4	2227.7	2312.7	2377.4	2437.1	2504.0	2567.4	2643.7
15°	1918.6	2005.6	2094.2	2188.4	2294.6	2392.8	2486.3	2563.7	2635.6	2730.6	2830.4
17.5°	1894.6	1988.5	2100.3	2214.3	2325.3	2437.6	2553.2	2669.6	2760.3	2878.3	2956.4
20°	1872.3	1980.9	2095.8	2231.6	2342.5	2482.3	2597.2	2709.8	2834.4	2951.7	3045.1
22.5°	1841.0	1959.8	2081.8	2216.9	2363.0	2502.7	2635.6	2757.7	2882.3	3009.9	3123.1
25°	1801.2	1909.0	2053.5	2206.8	2352.1	2503.8	2656.3	2809.6	2943.7	3078.7	3184.1
27.5°	1733.5	1869.6	2004.2	2162.4	2323.9	2495.5	2658.6	2819.0	2959.6	3070.5	3135.8
30°	1699.0	1817.2	1963.3	2122.2	2297.0	2481.5	2651.5	2808.8	2939.8	3028.4	3054.7
32.5°	1647.9	1769.9	1912.8	2077.5	2262.5	2452.1	2629.2	2777.5	2886.7	2933.2	2901.4
35°	1572.1	1682.3	1826.8	1995.2	2187.6	2389.6	2564.5	2689.8	2745.7	2701.8	2592.4
37.5°	1481.1	1590.3	1735.4	1900.9	2100.0	2305.3	2463.4	2553.6	2535.1	2425.9	2262.9
40°	1417.2	1519.4	1657.5	1836.3	2030.4	2236.4	2375.3	2424.0	2372.9	2216.4	2043.1
42.5°	1346.3	1445.9	1584.7	1757.1	1962.7	2152.7	2273.7	2277.7	2192.1	2005.0	1831.1
45°	1238.3	1333.3	1464.3	1643.9	1834.0	2012.8	2092.6	2053.5	1895.4	1715.0	1540.1
47.5°	1131.8	1214.2	1343.2	1513.8	1694.2	1844.8	1884.4	1814.0	1645.5	1470.4	1308.3
50°	1053.9	1136.9	1258.3	1421.2	1595.2	1725.4	1744.5	1651.1	1485.8	1309.4	1182.4
52.5°	979.2	1061.6	1178.5	1329.2	1488.6	1605.9	1606.6	1498.5	1333.8	1176.5	1058.5
55°	869.5	943.7	1049.1	1184.0	1326.2	1418.0	1395.6	1283.8	1140.9	1004.4	901.4
57.5°	763.8	828.4	925.5	1038.1	1163.3	1239.0	1201.9	1094.3	966.7	850.9	772.9
60°	695.4	756.9	839.9	946.1	1051.5	1110.6	1075.5	978.1	860.7	767.3	699.4
62.5°	629.0	680.9	760.7	852.9	950.6	994.3	963.0	866.9	765.5	681.0	626.0
65°	534.9	577.3	641.1	720.2	791.2	828.8	802.4	713.0	635.5	574.9	530.9
67.5°	447.1	480.2	528.5	591.9	652.3	672.6	648.6	586.4	520.7	472.2	441.2
70°	386.4	417.6	458.3	507.0	559.7	581.2	557.3	507.8	454.3	409.6	379.2
72.5°	333.4	357.5	391.9	433.5	474.7	496.3	480.0	432.4	387.2	354.0	328.1
75°	253.9	274.7	298.6	328.1	360.1	374.5	360.1	327.3	296.2	271.5	253.1
77.5°	184.6	195.8	214.3	236.3	256.3	267.3	254.9	232.7	213.7	196.7	187.6
80°	140.5	148.5	161.3	178.8	192.4	202.8	194.8	176.4	161.3	150.1	146.1
82.5°	102.2	107.6	115.9	129.0	138.1	143.4	139.9	126.6	120.4	110.5	106.5
85°	50.3	53.5	59.1	63.1	71.1	71.9	72.7	67.1	61.5	59.1	55.9
87.5°	18.3	19.5	21.9	24.3	27.2	28.2	28.0	28.3	26.1	25.7	23.4
90°	5.4	7.9	10.3	12.8	14.9	16.6	18.4	20.2	22.0	23.3	24.6
92.5°	24.2	26.9	29.7	32.5	34.6	35.8	37.0	38.3	39.5	40.3	41.1
95°	61.9	63.9	65.9	67.9	69.6	71.2	72.8	74.3	75.9	76.5	77.2
97.5°	106.2	107.8	109.4	111.0	112.7	114.5	116.3	118.2	120.0	120.8	121.6
100°	140.6	141.5	142.4	143.3	144.7	146.7	148.7	150.7	152.7	153.2	153.6
102.5°	176.8	177.2	177.5	177.9	179.0	180.8	182.6	184.4	186.3	186.9	187.5
105°	232.8	233.0	233.2	233.5	234.0	234.9	235.8	236.7	237.6	238.2	238.9
107.5°	291.7	292.0	292.3	292.5	292.7	292.9	293.0	293.1	293.3	293.9	294.5
110°	331.8	332.3	332.7	333.2	333.3	333.0	332.8	332.6	332.4	331.9	331.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	373.0	373.1	373.2	373.3	373.1	372.7	372.3	371.9	371.5	371.4	371.3
115°	435.2	435.2	435.2	435.2	435.0	434.5	434.1	433.6	433.2	433.0	432.7
117.5°	494.1	494.2	494.4	494.6	494.5	494.2	493.9	493.6	493.3	492.5	491.8
120°	533.9	534.8	535.7	536.6	536.7	536.0	535.3	534.7	534.0	532.9	531.8
122.5°	574.1	574.4	574.8	575.1	575.2	574.9	574.5	574.2	573.9	573.2	572.4
125°	633.8	633.8	633.8	633.8	633.7	633.5	633.3	633.0	632.8	632.4	631.9
127.5°	689.0	689.6	690.3	691.0	691.1	690.8	690.4	690.1	689.7	689.3	688.8
130°	727.3	728.0	728.6	729.3	729.6	729.6	729.6	729.6	729.6	729.2	728.8
132.5°	766.3	766.7	767.2	767.7	767.9	767.7	767.5	767.3	767.2	766.7	766.3
135°	818.8	820.1	821.5	822.8	823.5	823.5	823.5	823.5	823.5	823.0	822.6
137.5°	874.4	875.0	875.6	876.3	876.7	877.1	877.5	877.8	878.2	877.6	877.0
140°	911.7	912.2	912.6	913.1	913.3	913.3	913.3	913.3	913.3	913.1	912.9
142.5°	946.1	946.5	947.0	947.4	947.5	947.4	947.2	947.0	946.8	946.8	946.7
145°	994.0	994.9	995.8	996.7	997.2	997.5	997.7	997.9	998.1	997.9	997.7
147.5°	1041.3	1042.4	1043.5	1044.5	1045.0	1044.8	1044.6	1044.4	1044.3	1044.1	1043.9
150°	1069.9	1070.8	1071.7	1072.6	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0
152.5°	1096.7	1097.2	1097.8	1098.3	1098.6	1098.8	1099.0	1099.2	1099.3	1099.9	1100.4
155°	1137.9	1137.9	1137.9	1137.9	1137.8	1137.5	1137.3	1137.1	1136.9	1137.8	1138.7
157.5°	1172.6	1172.2	1171.8	1171.4	1171.2	1171.1	1171.1	1171.1	1171.0	1171.7	1172.3
160°	1193.5	1193.3	1193.1	1192.9	1192.7	1192.4	1192.2	1192.0	1191.8	1192.4	1193.1
162.5°	1212.4	1211.8	1211.2	1210.6	1210.2	1210.0	1209.8	1209.6	1209.3	1210.5	1211.7
165°	1238.0	1237.4	1236.7	1236.0	1235.5	1235.0	1234.6	1234.1	1233.7	1235.0	1236.4
167.5°	1257.5	1256.6	1255.7	1254.7	1254.3	1254.3	1254.4	1254.4	1254.5	1255.8	1257.1
170°	1268.5	1267.4	1266.3	1265.2	1264.7	1265.0	1265.2	1265.4	1265.6	1267.0	1268.3
172.5°	1276.7	1275.8	1274.8	1273.9	1273.4	1273.5	1273.5	1273.6	1273.6	1275.1	1276.6
175°	1287.5	1286.4	1285.3	1284.2	1283.5	1283.3	1283.0	1282.8	1282.6	1284.2	1285.7
177.5°	1291.3	1290.4	1289.5	1288.6	1288.2	1288.2	1288.2	1288.2	1288.2	1289.4	1290.7
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	2031.5	2032.8	2038.5	2043.0	2044.3	2050.6	2051.3
5°	2210.0	2223.6	2249.9	2252.3	2256.3	2277.1	2261.1
7.5°	2419.2	2453.7	2476.7	2497.0	2504.3	2513.4	2511.5
10°	2553.3	2604.4	2630.0	2670.7	2672.3	2682.7	2676.3
12.5°	2688.1	2747.5	2794.1	2801.6	2835.8	2841.1	2850.0
15°	2879.1	2942.1	3006.8	3030.0	3077.1	3088.3	3105.8
17.5°	3058.6	3123.1	3168.4	3228.3	3247.6	3273.5	3255.9
20°	3156.9	3227.2	3284.7	3331.8	3351.7	3366.1	3364.5
22.5°	3216.3	3287.2	3333.8	3369.5	3388.1	3394.2	3393.9
25°	3253.5	3294.2	3308.6	3322.2	3301.4	3294.2	3297.4
27.5°	3150.1	3139.5	3102.0	3052.8	3001.7	2961.1	2939.1
30°	3007.6	2945.3	2888.7	2789.6	2738.6	2708.2	2681.1
32.5°	2805.8	2707.1	2598.0	2507.3	2449.2	2404.2	2397.5
35°	2459.9	2311.4	2178.1	2067.1	2009.6	1960.9	1949.7
37.5°	2091.4	1937.1	1817.0	1719.3	1657.5	1623.2	1591.1
40°	1846.7	1714.2	1596.0	1513.0	1465.9	1441.1	1421.2
42.5°	1658.3	1537.3	1419.7	1356.5	1313.9	1298.7	1287.0
45°	1398.0	1285.4	1204.0	1156.1	1131.3	1105.8	1093.8
47.5°	1189.6	1098.0	1044.3	1003.6	977.1	961.9	954.3
50°	1071.5	996.4	948.5	917.4	893.4	881.4	875.1
52.5°	966.7	905.1	864.8	840.1	823.8	815.0	812.5
55°	832.7	785.6	760.1	738.5	726.6	718.6	715.4
57.5°	723.8	687.6	666.8	649.1	644.5	637.8	635.5
60°	652.3	624.4	606.8	594.8	590.8	582.8	584.4
62.5°	589.1	566.2	551.2	544.4	539.1	532.4	534.6
65°	498.2	481.4	473.5	467.1	460.7	456.7	459.9
67.5°	418.0	406.6	395.7	392.0	388.8	388.2	384.8
70°	365.7	356.1	346.5	344.1	344.1	340.9	340.1
72.5°	315.2	308.2	301.8	300.0	297.5	298.8	295.4
75°	243.5	237.9	235.5	233.1	232.3	232.3	229.9
77.5°	180.0	175.8	172.0	172.0	169.1	168.0	167.7
80°	136.5	134.9	131.7	131.7	130.1	130.9	129.3
82.5°	102.7	100.4	99.8	98.5	96.3	96.4	94.9
85°	55.1	52.7	51.9	49.5	47.9	49.5	47.9
87.5°	24.4	24.0	23.5	22.3	21.8	21.9	20.0
90°	26.0	27.3	28.2	28.6	29.1	29.5	29.9
92.5°	41.9	42.7	43.3	43.5	43.8	44.1	44.3
95°	77.9	78.5	78.9	78.9	78.9	78.9	78.9
97.5°	122.4	123.2	123.6	123.6	123.6	123.6	123.6
100°	154.0	154.5	154.7	154.7	154.7	154.7	154.7
102.5°	188.1	188.7	189.1	189.3	189.5	189.7	189.8
105°	239.6	240.2	240.9	241.5	242.2	242.9	243.5
107.5°	295.1	295.7	296.0	296.0	295.9	295.9	295.8
110°	331.0	330.6	330.7	331.4	332.0	332.7	333.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	371.2	371.2	371.2	371.3	371.4	371.6	371.7
115°	432.5	432.3	432.1	431.9	431.6	431.4	431.2
117.5°	491.0	490.3	489.7	489.2	488.8	488.3	487.9
120°	530.7	529.6	529.2	529.7	530.1	530.6	531.0
122.5°	571.7	570.9	570.1	569.3	568.5	567.7	566.9
125°	631.5	631.0	630.6	630.2	629.7	629.3	628.8
127.5°	688.4	687.9	687.5	687.2	686.8	686.5	686.1
130°	728.3	727.9	727.2	726.3	725.4	724.5	723.6
132.5°	765.8	765.4	765.0	764.6	764.3	763.9	763.6
135°	822.1	821.7	821.1	820.5	819.8	819.1	818.5
137.5°	876.4	875.9	875.6	875.8	875.9	876.0	876.2
140°	912.6	912.4	912.2	912.0	911.7	911.5	911.3
142.5°	946.7	946.7	946.6	946.6	946.5	946.5	946.4
145°	997.5	997.2	996.8	996.1	995.5	994.8	994.1
147.5°	1043.7	1043.5	1043.3	1043.1	1042.9	1042.7	1042.5
150°	1073.0	1073.0	1072.9	1072.7	1072.4	1072.2	1072.0
152.5°	1100.9	1101.5	1101.5	1100.9	1100.3	1099.7	1099.1
155°	1139.5	1140.4	1140.4	1139.5	1138.7	1137.8	1136.9
157.5°	1173.0	1173.7	1173.6	1172.9	1172.1	1171.4	1170.6
160°	1193.8	1194.4	1194.2	1193.1	1192.0	1190.9	1189.8
162.5°	1212.9	1214.1	1214.2	1213.1	1212.0	1210.9	1209.7
165°	1237.7	1239.0	1239.2	1238.4	1237.5	1236.6	1235.7
167.5°	1258.5	1259.8	1259.8	1258.4	1257.0	1255.6	1254.3
170°	1269.6	1271.0	1270.8	1269.3	1267.7	1266.2	1264.6
172.5°	1278.1	1279.7	1279.6	1278.1	1276.5	1275.0	1273.4
175°	1287.3	1288.8	1288.8	1287.3	1285.7	1284.2	1282.6
177.5°	1291.9	1293.2	1293.1	1291.7	1290.2	1288.8	1287.4
180°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6

(END OF REPORT)