

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: P332073-840

Luminaire Tested: **S123DIP-S1165D1025U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332073-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1165D1025U840-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8503.5 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

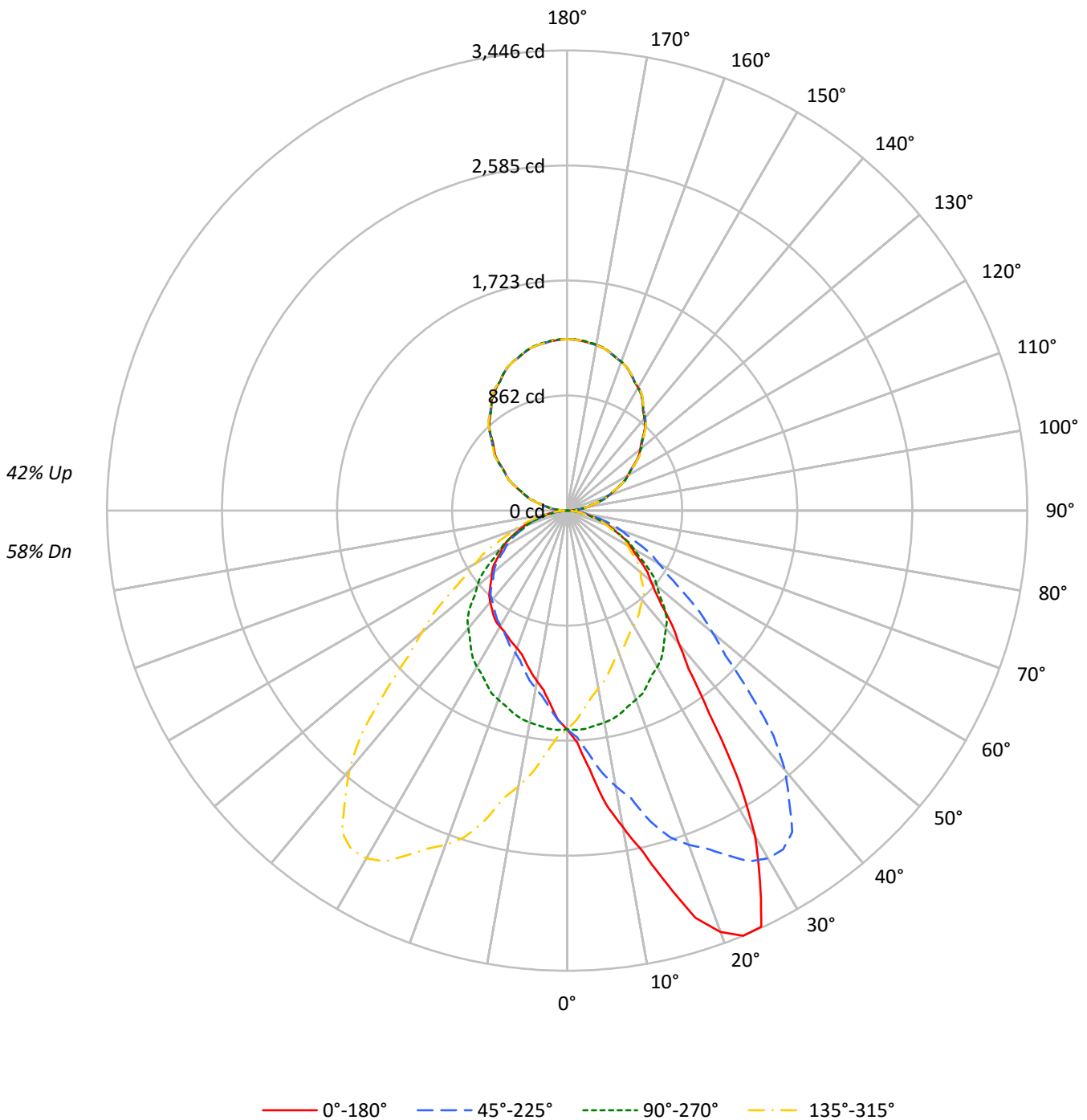
Input Watts (W): 66.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	88	88	88	75	75	75	64	64	64	58
1	100	96	92	88	93	89	86	83	78	75	73	67	65	63	57	56	54	50
2	91	84	78	73	85	79	73	69	68	64	61	59	56	53	50	48	46	42
3	83	74	67	61	78	69	63	58	61	56	51	52	49	45	45	42	40	36
4	76	66	58	52	71	62	55	49	54	48	44	47	43	39	40	37	34	31
5	70	59	51	45	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	45	39	60	50	42	37	44	38	33	38	34	30	33	29	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	26	24	21
8	56	43	36	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	40	32	27	48	37	31	26	33	28	24	29	25	21	26	22	19	17
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	17632	17632	17632	17632
5°	21028	17708	15693	17708
10°	26319	17618	14175	17618
15°	32282	17477	13196	17477
20°	38456	17255	12564	17255
25°	40834	16986	12423	16986
30°	34999	16789	12489	16789
35°	24341	16509	12620	16509
40°	18334	16183	12579	16183
45°	15224	15694	12420	15694
50°	13638	14699	12308	14699
55°	12748	13628	12153	13628
60°	11959	12508	12030	12508
65°	11240	11403	11645	11403
70°	10543	10140	11087	10140
75°	9441	8879	10168	8879
80°	8263	7277	8759	7277
85°	6472	5286	5891	5286



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.4	1.9
10°-20°	517.4	6.1
20°-30°	868.4	10.2
30°-40°	983.3	11.6
40°-50°	881.8	10.4
50°-60°	711.6	8.4
60°-70°	495.9	5.8
70°-80°	260.6	3.1
80°-90°	67.5	0.8
90°-100°	83.6	1.0
100°-110°	250.2	2.9
110°-120°	425.6	5.0
120°-130°	559.8	6.6
130°-140°	629.2	7.4
140°-150°	618.5	7.3
150°-160°	520.7	6.1
160°-170°	346.6	4.1
170°-180°	121.4	1.4
0°-30°	1547.2	18.2
0°-40°	2530.6	29.8
0°-60°	4124.0	48.5
0°-90°	4948.0	58.2
90°-120°	759.4	8.9
90°-150°	2566.9	30.2
90°-180°	3555.0	41.8
0°-180°	8503.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1638	1638	1638	1638	1638	
5°	1946	1639	1452	1639	1946	202
15°	2897	1568	1184	1568	2897	836
25°	3438	1430	1046	1430	3438	1508
35°	1852	1256	960	1256	1852	1204
45°	1000	1031	816	1031	1000	791
55°	679	726	648	726	679	610
65°	441	448	457	448	441	439
75°	227	214	244	214	227	243
85°	52	43	48	43	52	63
90°	30	1	30	1	30	17
95°	79	60	79	60	79	81
105°	240	227	240	227	240	255
115°	429	428	429	428	429	425
125°	620	627	620	627	620	554
135°	812	814	812	814	812	625
145°	987	987	987	987	987	616
155°	1128	1130	1128	1130	1128	519
165°	1227	1231	1227	1231	1227	346
175°	1275	1280	1275	1280	1275	121
180°	1283	1283	1283	1283	1283	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1738.5	1737.2	1734.0	1736.6	1731.5	1724.4	1723.8	1717.5	1699.1	1697.8	1692.7
5°	1946.1	1939.7	1938.9	1938.1	1927.0	1912.0	1883.4	1881.0	1842.9	1823.8	1800.9
7.5°	2214.9	2218.3	2206.8	2196.6	2162.6	2140.2	2109.6	2070.4	2023.6	1976.1	1944.5
10°	2408.0	2434.2	2401.7	2379.4	2358.8	2319.9	2274.7	2218.3	2161.9	2096.1	2046.1
12.5°	2615.0	2627.9	2621.3	2600.4	2568.3	2509.1	2428.9	2366.9	2315.0	2205.3	2161.0
15°	2896.9	2945.4	2914.4	2843.0	2844.5	2788.1	2683.4	2568.3	2507.2	2411.2	2280.3
17.5°	3197.2	3203.3	3190.1	3130.6	3090.9	3013.4	2916.8	2806.4	2682.6	2566.5	2427.5
20°	3357.2	3352.4	3324.7	3293.8	3225.5	3165.2	3059.6	2936.6	2777.8	2663.6	2511.9
22.5°	3446.2	3438.2	3425.1	3399.1	3342.4	3277.5	3182.8	3048.4	2897.2	2739.8	2564.7
25°	3438.2	3448.5	3450.1	3442.9	3423.1	3384.3	3309.6	3202.5	3051.7	2849.3	2666.8
27.5°	3127.0	3141.7	3184.1	3221.7	3263.8	3306.6	3300.8	3247.7	3136.1	2961.3	2738.1
30°	2815.9	2784.2	2862.8	2962.0	3029.5	3148.5	3215.2	3219.1	3156.4	3006.5	2788.9
32.5°	2384.2	2419.1	2453.9	2576.0	2723.4	2857.1	2989.8	3096.7	3108.9	3009.0	2818.8
35°	1852.4	1896.1	1959.5	2023.1	2181.8	2318.3	2551.6	2754.8	2916.8	2938.2	2821.5
37.5°	1492.8	1514.3	1554.5	1618.1	1721.9	1883.9	2064.4	2321.2	2555.8	2730.3	2737.8
40°	1304.8	1311.1	1356.3	1404.8	1488.9	1622.2	1784.9	2012.0	2292.9	2536.6	2638.2
42.5°	1163.9	1177.8	1197.0	1243.5	1310.5	1410.9	1562.2	1749.7	2007.2	2287.6	2486.4
45°	1000.1	1015.9	1027.8	1058.7	1106.4	1173.9	1279.4	1450.9	1646.9	1936.5	2204.0
47.5°	891.8	893.0	901.9	925.2	957.7	1008.2	1082.9	1193.1	1373.0	1608.0	1882.6
50°	814.4	827.0	830.2	848.4	873.8	911.1	973.0	1066.7	1214.4	1420.7	1673.0
52.5°	759.7	763.6	772.4	785.6	807.8	836.9	890.5	963.8	1079.7	1255.6	1487.6
55°	679.3	679.3	688.1	698.4	711.1	737.3	773.1	827.0	915.1	1051.6	1243.6
57.5°	605.1	609.0	615.2	618.4	629.2	646.5	676.4	717.3	783.0	888.1	1040.9
60°	555.5	562.7	561.9	568.3	577.8	591.3	616.7	650.1	708.7	792.8	921.5
62.5°	512.4	511.9	511.8	519.4	528.9	541.8	558.3	587.1	637.0	711.7	821.1
65°	441.3	439.7	445.2	450.0	453.2	462.7	475.4	500.8	534.1	589.7	674.6
67.5°	378.1	373.5	376.5	378.1	383.5	390.9	402.8	418.6	445.0	489.7	553.7
70°	335.0	330.9	330.1	331.7	336.5	342.0	350.8	365.9	390.5	426.2	473.0
72.5°	290.4	287.8	287.6	291.1	293.4	297.0	303.2	317.0	336.5	363.3	407.0
75°	227.0	227.0	227.0	227.8	230.1	233.4	238.1	245.2	260.3	279.3	308.7
77.5°	170.2	170.0	169.1	168.8	172.4	173.8	174.9	181.6	190.0	202.9	224.3
80°	133.3	129.4	131.0	133.3	134.9	135.7	138.1	139.7	146.8	154.0	169.1
82.5°	99.1	95.7	96.0	99.7	100.0	100.8	103.2	105.4	108.1	114.6	122.7
85°	52.4	52.4	53.2	53.2	53.9	53.2	55.5	56.4	56.4	60.3	65.0
87.5°	25.1	23.7	24.2	24.8	24.1	24.6	25.0	25.5	26.0	26.5	26.5
90°	30.2	29.8	29.4	28.9	28.5	27.8	26.9	26.0	25.0	24.2	21.3
92.5°	40.7	41.0	41.3	41.5	41.8	41.6	40.9	40.2	39.4	38.7	37.1
95°	78.7	78.7	78.7	78.7	78.7	78.2	77.3	76.3	75.5	74.6	72.8
97.5°	121.0	121.1	121.2	121.3	121.3	120.9	119.9	118.8	117.8	116.7	115.4
100°	153.2	152.8	152.3	151.9	151.5	150.9	150.2	149.6	148.9	148.1	147.0
102.5°	186.3	186.4	186.4	186.5	186.6	186.3	185.7	185.0	184.3	183.7	182.2
105°	239.9	239.4	239.0	238.5	238.1	237.9	237.9	237.9	237.9	237.9	235.9
107.5°	295.8	296.0	296.3	296.6	296.8	296.6	295.9	295.2	294.5	293.8	293.0
110°	333.7	334.2	334.6	335.0	335.5	335.3	334.4	333.5	332.5	331.6	331.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	374.0	374.1	374.2	374.3	374.4	373.9	372.7	371.7	370.6	369.5	369.5
115°	429.4	429.7	429.9	430.1	430.3	430.3	430.1	429.9	429.7	429.4	429.9
117.5°	485.6	486.4	487.0	487.6	488.2	488.6	488.6	488.6	488.7	488.7	489.3
120°	525.2	525.6	526.1	526.5	526.9	527.4	527.6	527.8	528.0	528.3	529.4
122.5°	563.1	563.7	564.3	565.0	565.6	566.2	566.8	567.3	567.9	568.6	569.2
125°	620.0	620.9	621.8	622.7	623.5	624.4	625.3	626.2	627.1	628.0	628.4
127.5°	676.6	677.6	678.6	679.7	680.8	681.9	683.2	684.4	685.6	686.9	687.4
130°	713.7	715.3	716.8	718.4	719.9	721.2	722.1	723.0	723.9	724.8	725.5
132.5°	752.5	753.7	754.9	756.1	757.3	758.4	759.5	760.5	761.6	762.7	763.2
135°	812.5	812.9	813.3	813.9	814.3	815.0	815.9	816.8	817.7	818.5	818.8
137.5°	865.6	866.4	867.2	868.1	868.9	869.8	870.8	871.7	872.6	873.5	873.0
140°	900.2	901.8	903.3	904.9	906.5	907.4	907.6	907.8	908.1	908.3	908.1
142.5°	935.6	936.9	938.1	939.3	940.5	941.2	941.5	941.7	941.9	942.1	941.7
145°	986.8	987.7	988.7	989.6	990.5	991.0	991.3	991.5	991.7	991.9	991.3
147.5°	1032.5	1033.8	1035.1	1036.5	1037.8	1038.5	1038.5	1038.5	1038.5	1038.5	1037.8
150°	1061.5	1062.8	1064.2	1065.5	1066.8	1067.5	1067.5	1067.5	1067.5	1067.5	1067.1
152.5°	1089.7	1090.9	1092.1	1093.2	1094.4	1094.8	1094.4	1094.1	1093.7	1093.4	1093.1
155°	1128.0	1129.5	1131.1	1132.8	1134.3	1134.6	1133.8	1132.9	1132.0	1131.0	1130.8
157.5°	1162.9	1164.2	1165.4	1166.7	1167.9	1168.1	1167.1	1166.2	1165.3	1164.3	1164.2
160°	1185.5	1186.4	1187.3	1188.2	1189.0	1188.9	1187.8	1186.7	1185.6	1184.5	1184.5
162.5°	1202.4	1203.9	1205.3	1206.7	1208.1	1208.3	1207.2	1206.1	1205.0	1203.9	1203.7
165°	1226.8	1228.4	1229.9	1231.5	1233.0	1233.1	1231.8	1230.5	1229.1	1227.8	1227.8
167.5°	1247.6	1249.0	1250.3	1251.7	1253.1	1253.1	1251.7	1250.3	1249.0	1247.6	1247.4
170°	1258.1	1259.6	1261.2	1262.7	1264.4	1264.4	1262.7	1261.2	1259.6	1258.1	1258.1
172.5°	1266.1	1267.7	1269.3	1270.8	1272.4	1272.4	1271.1	1269.7	1268.3	1266.9	1266.9
175°	1275.2	1276.8	1278.3	1279.9	1281.4	1281.6	1280.2	1278.9	1277.6	1276.2	1276.2
177.5°	1280.0	1281.3	1282.5	1283.8	1285.1	1285.2	1284.0	1283.0	1281.9	1280.8	1280.8
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1688.9	1683.8	1678.8	1669.9	1662.2	1651.4	1648.3	1644.5	1633.1	1623.0	1615.3
5°	1792.1	1773.0	1745.2	1719.9	1699.3	1671.5	1655.6	1638.9	1615.1	1593.7	1576.2
7.5°	1900.1	1862.6	1819.4	1772.7	1729.3	1687.4	1653.6	1623.4	1590.0	1558.4	1533.9
10°	1985.8	1931.8	1871.5	1806.4	1750.8	1696.9	1651.6	1611.9	1569.1	1531.8	1500.9
12.5°	2083.6	2003.6	1920.4	1841.3	1775.6	1700.7	1645.9	1595.5	1546.9	1502.0	1467.2
15°	2199.3	2097.7	1999.2	1890.6	1790.5	1696.9	1631.8	1568.3	1512.0	1465.9	1421.5
17.5°	2304.7	2189.6	2059.9	1927.6	1807.1	1696.0	1604.8	1533.1	1462.6	1406.2	1361.9
20°	2364.4	2233.4	2086.6	1949.2	1815.9	1692.1	1592.2	1506.4	1430.2	1370.7	1320.7
22.5°	2415.8	2262.6	2110.7	1963.9	1815.3	1681.9	1568.6	1480.4	1397.9	1339.6	1286.4
25°	2469.1	2285.8	2133.4	1961.2	1795.3	1657.2	1530.2	1430.2	1347.7	1279.4	1224.7
27.5°	2514.9	2284.2	2103.3	1918.1	1763.8	1625.5	1489.9	1382.6	1294.9	1220.8	1165.3
30°	2545.3	2287.3	2072.2	1889.0	1733.4	1590.5	1458.8	1350.8	1258.8	1183.4	1130.9
32.5°	2564.4	2285.4	2043.7	1848.4	1685.2	1558.7	1425.1	1313.3	1218.8	1144.7	1094.2
35°	2575.5	2271.5	1994.5	1764.3	1607.2	1484.2	1372.3	1256.4	1157.2	1088.1	1031.0
37.5°	2553.2	2242.1	1937.3	1683.3	1511.4	1390.2	1296.1	1197.3	1102.4	1026.4	977.1
40°	2518.3	2223.1	1892.9	1626.3	1445.3	1328.6	1248.5	1151.7	1057.9	985.7	939.7
42.5°	2451.6	2184.3	1844.0	1562.8	1376.7	1260.0	1186.2	1105.3	1016.7	948.9	902.9
45°	2289.0	2100.0	1770.7	1467.5	1275.5	1154.8	1089.7	1031.0	950.8	884.9	845.3
47.5°	2063.3	1973.3	1664.7	1367.1	1169.7	1053.7	986.0	938.8	880.2	827.0	788.9
50°	1906.4	1869.1	1592.9	1298.5	1099.2	985.7	920.7	877.8	835.8	782.5	747.6
52.5°	1725.5	1748.5	1509.1	1227.3	1027.5	915.9	854.6	820.6	782.4	738.7	708.3
55°	1470.7	1554.0	1364.3	1107.9	920.7	814.4	756.4	726.2	704.0	671.5	645.3
57.5°	1232.1	1338.2	1207.8	984.9	815.8	724.0	668.4	635.6	621.3	604.3	583.7
60°	1090.6	1195.3	1096.1	902.4	745.3	657.9	608.7	581.0	566.6	554.8	537.3
62.5°	964.1	1070.2	986.8	818.6	676.0	595.1	552.2	525.1	514.0	507.8	492.9
65°	790.5	881.8	826.2	688.1	577.0	505.5	466.7	447.7	437.3	434.9	425.5
67.5°	643.4	712.9	672.4	570.8	483.3	421.6	388.6	372.4	364.5	363.7	356.5
70°	546.8	611.9	581.0	488.9	413.5	365.1	336.5	322.2	317.5	316.7	312.8
72.5°	471.9	517.4	492.7	415.9	357.6	313.7	292.7	277.8	272.4	273.5	270.8
75°	349.2	383.3	369.1	315.9	269.0	240.4	223.0	213.5	208.7	211.2	207.9
77.5°	251.3	272.9	260.0	223.2	194.3	173.7	160.8	154.9	150.7	150.5	149.1
80°	189.7	202.4	195.2	173.0	149.3	131.8	121.4	117.4	115.1	114.3	113.5
82.5°	135.1	145.9	137.4	122.2	106.0	95.5	89.7	84.4	82.7	83.2	82.4
85°	68.3	72.2	69.1	59.5	53.2	48.4	45.2	42.8	41.3	42.1	40.5
87.5°	27.2	27.3	24.7	21.7	20.0	17.6	17.2	15.5	14.6	15.0	14.8
90°	18.4	15.5	12.5	10.0	7.8	5.5	3.2	1.0	3.2	5.5	7.8
92.5°	35.3	33.7	32.1	30.5	29.0	27.5	26.0	24.4	26.0	27.5	29.0
95°	71.0	69.2	67.5	65.7	64.2	62.6	61.0	59.5	61.0	62.6	64.2
97.5°	114.1	112.8	111.5	110.3	109.2	108.0	106.8	105.6	106.8	108.0	109.2
100°	145.9	144.8	143.7	142.5	141.1	139.8	138.5	137.1	138.5	139.8	141.1
102.5°	180.7	179.3	177.7	176.6	175.8	175.0	174.2	173.4	174.2	175.0	175.8
105°	233.9	231.9	229.8	228.6	228.1	227.7	227.2	226.8	227.2	227.7	228.1
107.5°	292.2	291.3	290.5	290.0	289.7	289.4	289.2	288.9	289.2	289.4	289.7
110°	330.7	330.3	329.8	329.4	328.9	328.5	328.1	327.6	328.1	328.5	328.9





TEST NUMBER: P332073-840

CATALOG NUMBER: S123DIP-S1165D1025U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	369.4	369.3	369.2	369.0	368.7	368.5	368.2	367.9	368.2	368.5	368.7
115°	430.3	430.8	431.2	431.1	430.4	429.8	429.1	428.4	429.1	429.8	430.4
117.5°	489.9	490.5	491.0	491.1	490.7	490.2	489.8	489.3	489.8	490.2	490.7
120°	530.5	531.6	532.7	532.6	531.3	529.9	528.6	527.3	528.6	529.9	531.3
122.5°	569.7	570.3	570.9	570.7	569.7	568.7	567.7	566.7	567.7	568.7	569.7
125°	628.9	629.3	629.9	629.7	629.0	628.3	627.7	627.0	627.7	628.3	629.0
127.5°	687.9	688.3	688.8	688.4	686.9	685.5	684.1	682.7	684.1	685.5	686.9
130°	726.1	726.8	727.5	726.9	725.1	723.4	721.5	719.7	721.5	723.4	725.1
132.5°	763.7	764.2	764.7	764.1	762.2	760.4	758.6	756.9	758.6	760.4	762.2
135°	819.0	819.2	819.4	818.9	817.5	816.2	814.9	813.5	814.9	816.2	817.5
137.5°	872.4	871.8	871.2	870.4	869.3	868.2	867.1	866.0	867.1	868.2	869.3
140°	907.8	907.6	907.4	906.7	905.5	904.4	903.3	902.2	903.3	904.4	905.5
142.5°	941.3	940.9	940.5	939.8	938.7	937.6	936.3	935.2	936.3	937.6	938.7
145°	990.6	989.9	989.3	988.7	988.3	987.7	987.3	986.8	987.3	987.7	988.3
147.5°	1037.2	1036.6	1036.0	1035.3	1034.5	1033.7	1032.9	1032.1	1032.9	1033.7	1034.5
150°	1066.6	1066.2	1065.7	1065.3	1064.8	1064.4	1064.0	1063.5	1064.0	1064.4	1064.8
152.5°	1092.8	1092.6	1092.3	1091.8	1091.2	1090.6	1089.9	1089.3	1089.9	1090.6	1091.2
155°	1130.5	1130.3	1130.1	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0
157.5°	1164.0	1163.8	1163.6	1163.7	1163.9	1164.2	1164.5	1164.7	1164.5	1164.2	1163.9
160°	1184.5	1184.5	1184.5	1184.7	1185.2	1185.6	1186.0	1186.5	1186.0	1185.6	1185.2
162.5°	1203.5	1203.3	1203.2	1203.4	1204.0	1204.6	1205.2	1205.9	1205.2	1204.6	1204.0
165°	1227.8	1227.8	1227.8	1228.2	1228.8	1229.5	1230.1	1230.8	1230.1	1229.5	1228.8
167.5°	1247.2	1247.1	1246.9	1247.2	1248.1	1249.0	1249.9	1250.8	1249.9	1249.0	1248.1
170°	1258.1	1258.1	1258.1	1258.5	1259.4	1260.3	1261.2	1262.1	1261.2	1260.3	1259.4
172.5°	1266.9	1266.9	1266.9	1267.4	1268.3	1269.2	1270.1	1270.9	1270.1	1269.2	1268.3
175°	1276.2	1276.2	1276.2	1276.7	1277.6	1278.4	1279.3	1280.2	1279.3	1278.4	1277.6
177.5°	1280.8	1280.8	1280.8	1281.2	1281.9	1282.6	1283.3	1284.0	1283.3	1282.6	1281.9
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



TEST NUMBER: P332073-840

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1610.8	1606.4	1600.0	1590.5	1582.9	1570.8	1570.8	1572.8	1572.8	1572.2	1570.8
5°	1562.0	1550.0	1535.8	1519.1	1501.7	1484.2	1481.0	1474.6	1469.9	1466.7	1462.8
7.5°	1510.4	1489.2	1468.4	1445.1	1423.8	1406.2	1394.0	1383.8	1377.4	1370.4	1365.2
10°	1475.4	1449.3	1424.6	1400.1	1373.0	1351.6	1338.2	1328.6	1321.5	1315.1	1311.9
12.5°	1434.2	1404.2	1377.1	1353.7	1324.1	1302.1	1289.3	1284.8	1276.4	1263.0	1256.1
15°	1373.8	1346.0	1313.5	1277.8	1263.5	1236.6	1221.4	1214.4	1209.5	1199.2	1196.1
17.5°	1322.2	1285.9	1249.4	1222.7	1196.2	1174.3	1165.9	1157.0	1150.6	1142.3	1139.7
20°	1281.0	1248.5	1215.1	1186.6	1158.7	1135.0	1127.8	1121.5	1115.1	1111.2	1107.9
22.5°	1239.1	1206.6	1178.9	1152.3	1122.6	1107.0	1099.2	1092.3	1087.8	1085.1	1082.0
25°	1180.2	1151.7	1120.6	1096.8	1073.1	1062.7	1057.9	1054.0	1050.9	1046.8	1046.0
27.5°	1127.5	1096.4	1071.3	1049.0	1032.0	1023.4	1018.8	1016.8	1017.5	1019.0	1019.9
30°	1088.1	1059.6	1038.9	1019.9	1004.0	996.0	995.2	995.2	998.5	999.3	1000.8
32.5°	1052.0	1028.4	1007.8	989.4	977.3	971.9	974.9	974.9	977.4	979.6	982.4
35°	999.3	978.6	962.7	946.8	936.5	938.9	940.5	942.1	946.0	950.8	954.0
37.5°	948.9	931.0	914.4	902.1	897.4	901.6	905.4	908.8	913.3	917.1	920.2
40°	912.7	899.2	883.3	872.2	873.8	876.3	879.4	883.3	887.4	889.7	892.9
42.5°	879.1	864.9	852.9	843.6	845.9	848.9	850.8	852.9	857.5	861.8	863.6
45°	827.8	816.7	805.6	800.0	801.6	803.2	804.8	807.2	811.1	814.4	815.1
47.5°	770.2	762.4	755.0	749.5	752.0	751.4	753.6	758.6	759.8	761.7	766.2
50°	733.4	726.2	717.5	715.9	715.9	715.9	716.7	723.1	723.1	726.2	729.4
52.5°	692.8	688.1	682.6	679.7	678.4	678.4	681.8	685.0	686.2	690.6	693.9
55°	632.6	627.8	623.0	620.7	619.0	620.7	627.0	628.5	632.6	634.9	637.3
57.5°	569.9	566.2	562.4	561.1	560.8	562.9	566.3	571.1	572.1	579.4	583.0
60°	528.6	523.0	519.9	519.9	518.3	525.4	523.8	531.8	533.3	538.2	543.7
62.5°	486.0	478.6	477.4	477.4	479.6	481.6	483.8	487.4	491.4	497.5	501.8
65°	417.5	413.5	419.1	418.3	416.7	421.4	421.4	425.5	430.2	435.8	444.4
67.5°	352.5	350.5	350.9	350.9	353.4	356.1	358.3	361.7	367.5	373.3	379.1
70°	308.7	311.1	307.2	310.3	312.8	313.5	315.1	319.8	326.2	330.1	336.5
72.5°	266.2	266.0	266.5	267.8	270.1	271.6	273.2	278.6	285.6	288.9	294.0
75°	204.8	204.0	206.3	206.3	210.4	211.9	213.5	215.9	222.3	227.0	231.0
77.5°	149.6	150.5	150.0	152.7	151.6	151.9	156.8	159.3	159.9	169.3	171.3
80°	112.7	114.3	115.1	115.8	116.6	115.1	120.7	123.0	123.0	128.6	132.5
82.5°	81.0	81.9	84.0	84.7	84.9	86.5	86.9	88.8	90.7	93.0	98.3
85°	40.5	42.8	43.6	42.8	43.6	42.1	44.4	45.2	46.0	46.0	46.0
87.5°	14.6	15.9	15.8	17.0	17.0	18.2	18.4	17.3	17.5	19.5	17.2
90°	10.0	12.5	15.5	18.4	21.3	24.2	25.0	26.0	26.9	27.8	28.5
92.5°	30.5	32.1	33.7	35.3	37.1	38.7	39.4	40.2	40.9	41.6	41.8
95°	65.7	67.5	69.2	71.0	72.8	74.6	75.5	76.3	77.3	78.2	78.7
97.5°	110.3	111.5	112.8	114.1	115.4	116.7	117.8	118.8	119.9	120.9	121.3
100°	142.5	143.7	144.8	145.9	147.0	148.1	148.9	149.6	150.2	150.9	151.5
102.5°	176.6	177.7	179.3	180.7	182.2	183.7	184.3	185.0	185.7	186.3	186.6
105°	228.6	229.8	231.9	233.9	235.9	237.9	237.9	237.9	237.9	237.9	238.1
107.5°	290.0	290.5	291.3	292.2	293.0	293.8	294.5	295.2	295.9	296.6	296.8
110°	329.4	329.8	330.3	330.7	331.2	331.6	332.5	333.5	334.4	335.3	335.5



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	369.0	369.2	369.3	369.4	369.5	369.5	370.6	371.7	372.7	373.9	374.4
115°	431.1	431.2	430.8	430.3	429.9	429.4	429.7	429.9	430.1	430.3	430.3
117.5°	491.1	491.0	490.5	489.9	489.3	488.7	488.7	488.6	488.6	488.6	488.2
120°	532.6	532.7	531.6	530.5	529.4	528.3	528.0	527.8	527.6	527.4	526.9
122.5°	570.7	570.9	570.3	569.7	569.2	568.6	567.9	567.3	566.8	566.2	565.6
125°	629.7	629.9	629.3	628.9	628.4	628.0	627.1	626.2	625.3	624.4	623.5
127.5°	688.4	688.8	688.3	687.9	687.4	686.9	685.6	684.4	683.2	681.9	680.8
130°	726.9	727.5	726.8	726.1	725.5	724.8	723.9	723.0	722.1	721.2	719.9
132.5°	764.1	764.7	764.2	763.7	763.2	762.7	761.6	760.5	759.5	758.4	757.3
135°	818.9	819.4	819.2	819.0	818.8	818.5	817.7	816.8	815.9	815.0	814.3
137.5°	870.4	871.2	871.8	872.4	873.0	873.5	872.6	871.7	870.8	869.8	868.9
140°	906.7	907.4	907.6	907.8	908.1	908.3	908.1	907.8	907.6	907.4	906.5
142.5°	939.8	940.5	940.9	941.3	941.7	942.1	941.9	941.7	941.5	941.2	940.5
145°	988.7	989.3	989.9	990.6	991.3	991.9	991.7	991.5	991.3	991.0	990.5
147.5°	1035.3	1036.0	1036.6	1037.2	1037.8	1038.5	1038.5	1038.5	1038.5	1038.5	1037.8
150°	1065.3	1065.7	1066.2	1066.6	1067.1	1067.5	1067.5	1067.5	1067.5	1067.5	1066.8
152.5°	1091.8	1092.3	1092.6	1092.8	1093.1	1093.4	1093.7	1094.1	1094.4	1094.8	1094.4
155°	1130.0	1130.1	1130.3	1130.5	1130.8	1131.0	1132.0	1132.9	1133.8	1134.6	1134.3
157.5°	1163.7	1163.6	1163.8	1164.0	1164.2	1164.3	1165.3	1166.2	1167.1	1168.1	1167.9
160°	1184.7	1184.5	1184.5	1184.5	1184.5	1184.5	1185.6	1186.7	1187.8	1188.9	1189.0
162.5°	1203.4	1203.2	1203.3	1203.5	1203.7	1203.9	1205.0	1206.1	1207.2	1208.3	1208.1
165°	1228.2	1227.8	1227.8	1227.8	1227.8	1227.8	1229.1	1230.5	1231.8	1233.1	1233.0
167.5°	1247.2	1246.9	1247.1	1247.2	1247.4	1247.6	1249.0	1250.3	1251.7	1253.1	1253.1
170°	1258.5	1258.1	1258.1	1258.1	1258.1	1258.1	1259.6	1261.2	1262.7	1264.4	1264.4
172.5°	1267.4	1266.9	1266.9	1266.9	1266.9	1266.9	1268.3	1269.7	1271.1	1272.4	1272.4
175°	1276.7	1276.2	1276.2	1276.2	1276.2	1276.2	1277.6	1278.9	1280.2	1281.6	1281.4
177.5°	1281.2	1280.8	1280.8	1280.8	1280.8	1280.8	1281.9	1283.0	1284.0	1285.2	1285.1
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



TEST NUMBER: P332073-840

CATALOG NUMBER: S123DIP-S1165D1025U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1566.4	1565.8	1570.2	1567.0	1570.2	1565.8	1566.4	1570.8	1572.2	1572.8	1572.8
5°	1457.9	1460.4	1452.4	1452.4	1452.4	1460.4	1457.9	1462.8	1466.7	1469.9	1474.6
7.5°	1361.5	1358.0	1358.3	1354.0	1358.3	1358.0	1361.5	1365.2	1370.4	1377.4	1383.8
10°	1302.4	1297.7	1296.1	1296.9	1296.1	1297.7	1302.4	1311.9	1315.1	1321.5	1328.6
12.5°	1253.5	1252.5	1242.1	1242.2	1242.1	1252.5	1253.5	1256.1	1263.0	1276.4	1284.8
15°	1196.1	1181.0	1179.4	1184.2	1179.4	1181.0	1196.1	1196.1	1199.2	1209.5	1214.4
17.5°	1138.4	1130.5	1130.9	1128.6	1130.9	1130.5	1138.4	1139.7	1142.3	1150.6	1157.0
20°	1107.9	1103.2	1102.4	1096.8	1102.4	1103.2	1107.9	1107.9	1111.2	1115.1	1121.5
22.5°	1080.1	1078.4	1078.9	1072.8	1078.9	1078.4	1080.1	1082.0	1085.1	1087.8	1092.3
25°	1045.3	1049.2	1046.0	1046.0	1046.0	1049.2	1045.3	1046.0	1046.8	1050.9	1054.0
27.5°	1021.8	1021.6	1020.1	1020.1	1020.1	1021.6	1021.8	1019.9	1019.0	1017.5	1016.8
30°	1004.0	1003.2	1004.8	1004.8	1004.8	1003.2	1004.0	1000.8	999.3	998.5	995.2
32.5°	986.2	987.3	987.6	988.3	987.6	987.3	986.2	982.4	979.6	977.4	974.9
35°	958.8	959.6	961.9	960.4	961.9	959.6	958.8	954.0	950.8	946.0	942.1
37.5°	921.6	925.2	924.4	925.7	924.4	925.2	921.6	920.2	917.1	913.3	908.8
40°	893.6	896.1	895.2	895.2	895.2	896.1	893.6	892.9	889.7	887.4	883.3
42.5°	865.2	866.9	864.7	863.5	864.7	866.9	865.2	863.6	861.8	857.5	852.9
45°	818.3	816.7	819.1	815.9	819.1	816.7	818.3	815.1	814.4	811.1	807.2
47.5°	765.9	767.5	768.1	770.5	768.1	767.5	765.9	766.2	761.7	759.8	758.6
50°	730.9	735.7	735.7	735.0	735.7	735.7	730.9	729.4	726.2	723.1	723.1
52.5°	696.7	698.9	702.1	702.0	702.1	698.9	696.7	693.9	690.6	686.2	685.0
55°	643.7	645.3	646.8	647.6	646.8	645.3	643.7	637.3	634.9	632.6	628.5
57.5°	588.8	588.1	591.9	593.0	591.9	588.1	588.8	583.0	579.4	572.1	571.1
60°	550.0	550.0	556.3	558.8	556.3	550.0	550.0	543.7	538.2	533.3	531.8
62.5°	508.8	511.3	517.7	514.3	517.7	511.3	508.8	501.8	497.5	491.4	487.4
65°	448.4	454.7	453.9	457.2	453.9	454.7	448.4	444.4	435.8	430.2	425.5
67.5°	385.4	389.4	395.1	395.6	395.1	389.4	385.4	379.1	373.3	367.5	361.7
70°	342.8	346.8	350.0	352.3	350.0	346.8	342.8	336.5	330.1	326.2	319.8
72.5°	301.6	303.7	311.2	307.9	311.2	303.7	301.6	294.0	288.9	285.6	278.6
75°	236.5	242.1	246.8	244.5	246.8	242.1	236.5	231.0	227.0	222.3	215.9
77.5°	174.9	180.5	182.7	180.7	182.7	180.5	174.9	171.3	169.3	159.9	159.3
80°	138.1	137.3	142.1	141.3	142.1	137.3	138.1	132.5	128.6	123.0	123.0
82.5°	101.3	100.5	102.7	103.2	102.7	100.5	101.3	98.3	93.0	90.7	88.8
85°	49.2	51.6	48.4	47.7	48.4	51.6	49.2	46.0	46.0	46.0	45.2
87.5°	17.2	17.3	16.8	16.2	16.8	17.3	17.2	17.2	19.5	17.5	17.3
90°	28.9	29.4	29.8	30.2	29.8	29.4	28.9	28.5	27.8	26.9	26.0
92.5°	41.5	41.3	41.0	40.7	41.0	41.3	41.5	41.8	41.6	40.9	40.2
95°	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.2	77.3	76.3
97.5°	121.3	121.2	121.1	121.0	121.1	121.2	121.3	121.3	120.9	119.9	118.8
100°	151.9	152.3	152.8	153.2	152.8	152.3	151.9	151.5	150.9	150.2	149.6
102.5°	186.5	186.4	186.4	186.3	186.4	186.4	186.5	186.6	186.3	185.7	185.0
105°	238.5	239.0	239.4	239.9	239.4	239.0	238.5	238.1	237.9	237.9	237.9
107.5°	296.6	296.3	296.0	295.8	296.0	296.3	296.6	296.8	296.6	295.9	295.2
110°	335.0	334.6	334.2	333.7	334.2	334.6	335.0	335.5	335.3	334.4	333.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	374.3	374.2	374.1	374.0	374.1	374.2	374.3	374.4	373.9	372.7	371.7
115°	430.1	429.9	429.7	429.4	429.7	429.9	430.1	430.3	430.3	430.1	429.9
117.5°	487.6	487.0	486.4	485.6	486.4	487.0	487.6	488.2	488.6	488.6	488.6
120°	526.5	526.1	525.6	525.2	525.6	526.1	526.5	526.9	527.4	527.6	527.8
122.5°	565.0	564.3	563.7	563.1	563.7	564.3	565.0	565.6	566.2	566.8	567.3
125°	622.7	621.8	620.9	620.0	620.9	621.8	622.7	623.5	624.4	625.3	626.2
127.5°	679.7	678.6	677.6	676.6	677.6	678.6	679.7	680.8	681.9	683.2	684.4
130°	718.4	716.8	715.3	713.7	715.3	716.8	718.4	719.9	721.2	722.1	723.0
132.5°	756.1	754.9	753.7	752.5	753.7	754.9	756.1	757.3	758.4	759.5	760.5
135°	813.9	813.3	812.9	812.5	812.9	813.3	813.9	814.3	815.0	815.9	816.8
137.5°	868.1	867.2	866.4	865.6	866.4	867.2	868.1	868.9	869.8	870.8	871.7
140°	904.9	903.3	901.8	900.2	901.8	903.3	904.9	906.5	907.4	907.6	907.8
142.5°	939.3	938.1	936.9	935.6	936.9	938.1	939.3	940.5	941.2	941.5	941.7
145°	989.6	988.7	987.7	986.8	987.7	988.7	989.6	990.5	991.0	991.3	991.5
147.5°	1036.5	1035.1	1033.8	1032.5	1033.8	1035.1	1036.5	1037.8	1038.5	1038.5	1038.5
150°	1065.5	1064.2	1062.8	1061.5	1062.8	1064.2	1065.5	1066.8	1067.5	1067.5	1067.5
152.5°	1093.2	1092.1	1090.9	1089.7	1090.9	1092.1	1093.2	1094.4	1094.8	1094.4	1094.1
155°	1132.8	1131.1	1129.5	1128.0	1129.5	1131.1	1132.8	1134.3	1134.6	1133.8	1132.9
157.5°	1166.7	1165.4	1164.2	1162.9	1164.2	1165.4	1166.7	1167.9	1168.1	1167.1	1166.2
160°	1188.2	1187.3	1186.4	1185.5	1186.4	1187.3	1188.2	1189.0	1188.9	1187.8	1186.7
162.5°	1206.7	1205.3	1203.9	1202.4	1203.9	1205.3	1206.7	1208.1	1208.3	1207.2	1206.1
165°	1231.5	1229.9	1228.4	1226.8	1228.4	1229.9	1231.5	1233.0	1233.1	1231.8	1230.5
167.5°	1251.7	1250.3	1249.0	1247.6	1249.0	1250.3	1251.7	1253.1	1253.1	1251.7	1250.3
170°	1262.7	1261.2	1259.6	1258.1	1259.6	1261.2	1262.7	1264.4	1264.4	1262.7	1261.2
172.5°	1270.8	1269.3	1267.7	1266.1	1267.7	1269.3	1270.8	1272.4	1272.4	1271.1	1269.7
175°	1279.9	1278.3	1276.8	1275.2	1276.8	1278.3	1279.9	1281.4	1281.6	1280.2	1278.9
177.5°	1283.8	1282.5	1281.3	1280.0	1281.3	1282.5	1283.8	1285.1	1285.2	1284.0	1283.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1570.8	1570.8	1582.9	1590.5	1600.0	1606.4	1610.8	1615.3	1623.0	1633.1	1644.5
5°	1481.0	1484.2	1501.7	1519.1	1535.8	1550.0	1562.0	1576.2	1593.7	1615.1	1638.9
7.5°	1394.0	1406.2	1423.8	1445.1	1468.4	1489.2	1510.4	1533.9	1558.4	1590.0	1623.4
10°	1338.2	1351.6	1373.0	1400.1	1424.6	1449.3	1475.4	1500.9	1531.8	1569.1	1611.9
12.5°	1289.3	1302.1	1324.1	1353.7	1377.1	1404.2	1434.2	1467.2	1502.0	1546.9	1595.5
15°	1221.4	1236.6	1263.5	1277.8	1313.5	1346.0	1373.8	1421.5	1465.9	1512.0	1568.3
17.5°	1165.9	1174.3	1196.2	1222.7	1249.4	1285.9	1322.2	1361.9	1406.2	1462.6	1533.1
20°	1127.8	1135.0	1158.7	1186.6	1215.1	1248.5	1281.0	1320.7	1370.7	1430.2	1506.4
22.5°	1099.2	1107.0	1122.6	1152.3	1178.9	1206.6	1239.1	1286.4	1339.6	1397.9	1480.4
25°	1057.9	1062.7	1073.1	1096.8	1120.6	1151.7	1180.2	1224.7	1279.4	1347.7	1430.2
27.5°	1018.8	1023.4	1032.0	1049.0	1071.3	1096.4	1127.5	1165.3	1220.8	1294.9	1382.6
30°	995.2	996.0	1004.0	1019.9	1038.9	1059.6	1088.1	1130.9	1183.4	1258.8	1350.8
32.5°	974.9	971.9	977.3	989.4	1007.8	1028.4	1052.0	1094.2	1144.7	1218.8	1313.3
35°	940.5	938.9	936.5	946.8	962.7	978.6	999.3	1031.0	1088.1	1157.2	1256.4
37.5°	905.4	901.6	897.4	902.1	914.4	931.0	948.9	977.1	1026.4	1102.4	1197.3
40°	879.4	876.3	873.8	872.2	883.3	899.2	912.7	939.7	985.7	1057.9	1151.7
42.5°	850.8	848.9	845.9	843.6	852.9	864.9	879.1	902.9	948.9	1016.7	1105.3
45°	804.8	803.2	801.6	800.0	805.6	816.7	827.8	845.3	884.9	950.8	1031.0
47.5°	753.6	751.4	752.0	749.5	755.0	762.4	770.2	788.9	827.0	880.2	938.8
50°	716.7	715.9	715.9	715.9	717.5	726.2	733.4	747.6	782.5	835.8	877.8
52.5°	681.8	678.4	678.4	679.7	682.6	688.1	692.8	708.3	738.7	782.4	820.6
55°	627.0	620.7	619.0	620.7	623.0	627.8	632.6	645.3	671.5	704.0	726.2
57.5°	566.3	562.9	560.8	561.1	562.4	566.2	569.9	583.7	604.3	621.3	635.6
60°	523.8	525.4	518.3	519.9	519.9	523.0	528.6	537.3	554.8	566.6	581.0
62.5°	483.8	481.6	479.6	477.4	477.4	478.6	486.0	492.9	507.8	514.0	525.1
65°	421.4	421.4	416.7	418.3	419.1	413.5	417.5	425.5	434.9	437.3	447.7
67.5°	358.3	356.1	353.4	350.9	350.9	350.5	352.5	356.5	363.7	364.5	372.4
70°	315.1	313.5	312.8	310.3	307.2	311.1	308.7	312.8	316.7	317.5	322.2
72.5°	273.2	271.6	270.1	267.8	266.5	266.0	266.2	270.8	273.5	272.4	277.8
75°	213.5	211.9	210.4	206.3	206.3	204.0	204.8	207.9	211.2	208.7	213.5
77.5°	156.8	151.9	151.6	152.7	150.0	150.5	149.6	149.1	150.5	150.7	154.9
80°	120.7	115.1	116.6	115.8	115.1	114.3	112.7	113.5	114.3	115.1	117.4
82.5°	86.9	86.5	84.9	84.7	84.0	81.9	81.0	82.4	83.2	82.7	84.4
85°	44.4	42.1	43.6	42.8	43.6	42.8	40.5	40.5	42.1	41.3	42.8
87.5°	18.4	18.2	17.0	17.0	15.8	15.9	14.6	14.8	15.0	14.6	15.5
90°	25.0	24.2	21.3	18.4	15.5	12.5	10.0	7.8	5.5	3.2	1.0
92.5°	39.4	38.7	37.1	35.3	33.7	32.1	30.5	29.0	27.5	26.0	24.4
95°	75.5	74.6	72.8	71.0	69.2	67.5	65.7	64.2	62.6	61.0	59.5
97.5°	117.8	116.7	115.4	114.1	112.8	111.5	110.3	109.2	108.0	106.8	105.6
100°	148.9	148.1	147.0	145.9	144.8	143.7	142.5	141.1	139.8	138.5	137.1
102.5°	184.3	183.7	182.2	180.7	179.3	177.7	176.6	175.8	175.0	174.2	173.4
105°	237.9	237.9	235.9	233.9	231.9	229.8	228.6	228.1	227.7	227.2	226.8
107.5°	294.5	293.8	293.0	292.2	291.3	290.5	290.0	289.7	289.4	289.2	288.9
110°	332.5	331.6	331.2	330.7	330.3	329.8	329.4	328.9	328.5	328.1	327.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	370.6	369.5	369.5	369.4	369.3	369.2	369.0	368.7	368.5	368.2	367.9
115°	429.7	429.4	429.9	430.3	430.8	431.2	431.1	430.4	429.8	429.1	428.4
117.5°	488.7	488.7	489.3	489.9	490.5	491.0	491.1	490.7	490.2	489.8	489.3
120°	528.0	528.3	529.4	530.5	531.6	532.7	532.6	531.3	529.9	528.6	527.3
122.5°	567.9	568.6	569.2	569.7	570.3	570.9	570.7	569.7	568.7	567.7	566.7
125°	627.1	628.0	628.4	628.9	629.3	629.9	629.7	629.0	628.3	627.7	627.0
127.5°	685.6	686.9	687.4	687.9	688.3	688.8	688.4	686.9	685.5	684.1	682.7
130°	723.9	724.8	725.5	726.1	726.8	727.5	726.9	725.1	723.4	721.5	719.7
132.5°	761.6	762.7	763.2	763.7	764.2	764.7	764.1	762.2	760.4	758.6	756.9
135°	817.7	818.5	818.8	819.0	819.2	819.4	818.9	817.5	816.2	814.9	813.5
137.5°	872.6	873.5	873.0	872.4	871.8	871.2	870.4	869.3	868.2	867.1	866.0
140°	908.1	908.3	908.1	907.8	907.6	907.4	906.7	905.5	904.4	903.3	902.2
142.5°	941.9	942.1	941.7	941.3	940.9	940.5	939.8	938.7	937.6	936.3	935.2
145°	991.7	991.9	991.3	990.6	989.9	989.3	988.7	988.3	987.7	987.3	986.8
147.5°	1038.5	1038.5	1037.8	1037.2	1036.6	1036.0	1035.3	1034.5	1033.7	1032.9	1032.1
150°	1067.5	1067.5	1067.1	1066.6	1066.2	1065.7	1065.3	1064.8	1064.4	1064.0	1063.5
152.5°	1093.7	1093.4	1093.1	1092.8	1092.6	1092.3	1091.8	1091.2	1090.6	1089.9	1089.3
155°	1132.0	1131.0	1130.8	1130.5	1130.3	1130.1	1130.0	1130.0	1130.0	1130.0	1130.0
157.5°	1165.3	1164.3	1164.2	1164.0	1163.8	1163.6	1163.7	1163.9	1164.2	1164.5	1164.7
160°	1185.6	1184.5	1184.5	1184.5	1184.5	1184.5	1184.7	1185.2	1185.6	1186.0	1186.5
162.5°	1205.0	1203.9	1203.7	1203.5	1203.3	1203.2	1203.4	1204.0	1204.6	1205.2	1205.9
165°	1229.1	1227.8	1227.8	1227.8	1227.8	1227.8	1228.2	1228.8	1229.5	1230.1	1230.8
167.5°	1249.0	1247.6	1247.4	1247.2	1247.1	1246.9	1247.2	1248.1	1249.0	1249.9	1250.8
170°	1259.6	1258.1	1258.1	1258.1	1258.1	1258.1	1258.5	1259.4	1260.3	1261.2	1262.1
172.5°	1268.3	1266.9	1266.9	1266.9	1266.9	1266.9	1267.4	1268.3	1269.2	1270.1	1270.9
175°	1277.6	1276.2	1276.2	1276.2	1276.2	1276.2	1276.7	1277.6	1278.4	1279.3	1280.2
177.5°	1281.9	1280.8	1280.8	1280.8	1280.8	1280.8	1281.2	1281.9	1282.6	1283.3	1284.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



TEST NUMBER: P332073-840

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1648.3	1651.4	1662.2	1669.9	1678.8	1683.8	1688.9	1692.7	1697.8	1699.1	1717.5
5°	1655.6	1671.5	1699.3	1719.9	1745.2	1773.0	1792.1	1800.9	1823.8	1842.9	1881.0
7.5°	1653.6	1687.4	1729.3	1772.7	1819.4	1862.6	1900.1	1944.5	1976.1	2023.6	2070.4
10°	1651.6	1696.9	1750.8	1806.4	1871.5	1931.8	1985.8	2046.1	2096.1	2161.9	2218.3
12.5°	1645.9	1700.7	1775.6	1841.3	1920.4	2003.6	2083.6	2161.0	2205.3	2315.0	2366.9
15°	1631.8	1696.9	1790.5	1890.6	1999.2	2097.7	2199.3	2280.3	2411.2	2507.2	2568.3
17.5°	1604.8	1696.0	1807.1	1927.6	2059.9	2189.6	2304.7	2427.5	2566.5	2682.6	2806.4
20°	1592.2	1692.1	1815.9	1949.2	2086.6	2233.4	2364.4	2511.9	2663.6	2777.8	2936.6
22.5°	1568.6	1681.9	1815.3	1963.9	2110.7	2262.6	2415.8	2564.7	2739.8	2897.2	3048.4
25°	1530.2	1657.2	1795.3	1961.2	2133.4	2285.8	2469.1	2666.8	2849.3	3051.7	3202.5
27.5°	1489.9	1625.5	1763.8	1918.1	2103.3	2284.2	2514.9	2738.1	2961.3	3136.1	3247.7
30°	1458.8	1590.5	1733.4	1889.0	2072.2	2287.3	2545.3	2788.9	3006.5	3156.4	3219.1
32.5°	1425.1	1558.7	1685.2	1848.4	2043.7	2285.4	2564.4	2818.8	3009.0	3108.9	3096.7
35°	1372.3	1484.2	1607.2	1764.3	1994.5	2271.5	2575.5	2821.5	2938.2	2916.8	2754.8
37.5°	1296.1	1390.2	1511.4	1683.3	1937.3	2242.1	2553.2	2737.8	2730.3	2555.8	2321.2
40°	1248.5	1328.6	1445.3	1626.3	1892.9	2223.1	2518.3	2638.2	2536.6	2292.9	2012.0
42.5°	1186.2	1260.0	1376.7	1562.8	1844.0	2184.3	2451.6	2486.4	2287.6	2007.2	1749.7
45°	1089.7	1154.8	1275.5	1467.5	1770.7	2100.0	2289.0	2204.0	1936.5	1646.9	1450.9
47.5°	986.0	1053.7	1169.7	1367.1	1664.7	1973.3	2063.3	1882.6	1608.0	1373.0	1193.1
50°	920.7	985.7	1099.2	1298.5	1592.9	1869.1	1906.4	1673.0	1420.7	1214.4	1066.7
52.5°	854.6	915.9	1027.5	1227.3	1509.1	1748.5	1725.5	1487.6	1255.6	1079.7	963.8
55°	756.4	814.4	920.7	1107.9	1364.3	1554.0	1470.7	1243.6	1051.6	915.1	827.0
57.5°	668.4	724.0	815.8	984.9	1207.8	1338.2	1232.1	1040.9	888.1	783.0	717.3
60°	608.7	657.9	745.3	902.4	1096.1	1195.3	1090.6	921.5	792.8	708.7	650.1
62.5°	552.2	595.1	676.0	818.6	986.8	1070.2	964.1	821.1	711.7	637.0	587.1
65°	466.7	505.5	577.0	688.1	826.2	881.8	790.5	674.6	589.7	534.1	500.8
67.5°	388.6	421.6	483.3	570.8	672.4	712.9	643.4	553.7	489.7	445.0	418.6
70°	336.5	365.1	413.5	488.9	581.0	611.9	546.8	473.0	426.2	390.5	365.9
72.5°	292.7	313.7	357.6	415.9	492.7	517.4	471.9	407.0	363.3	336.5	317.0
75°	223.0	240.4	269.0	315.9	369.1	383.3	349.2	308.7	279.3	260.3	245.2
77.5°	160.8	173.7	194.3	223.2	260.0	272.9	251.3	224.3	202.9	190.0	181.6
80°	121.4	131.8	149.3	173.0	195.2	202.4	189.7	169.1	154.0	146.8	139.7
82.5°	89.7	95.5	106.0	122.2	137.4	145.9	135.1	122.7	114.6	108.1	105.4
85°	45.2	48.4	53.2	59.5	69.1	72.2	68.3	65.0	60.3	56.4	56.4
87.5°	17.2	17.6	20.0	21.7	24.7	27.3	27.2	26.5	26.5	26.0	25.5
90°	3.2	5.5	7.8	10.0	12.5	15.5	18.4	21.3	24.2	25.0	26.0
92.5°	26.0	27.5	29.0	30.5	32.1	33.7	35.3	37.1	38.7	39.4	40.2
95°	61.0	62.6	64.2	65.7	67.5	69.2	71.0	72.8	74.6	75.5	76.3
97.5°	106.8	108.0	109.2	110.3	111.5	112.8	114.1	115.4	116.7	117.8	118.8
100°	138.5	139.8	141.1	142.5	143.7	144.8	145.9	147.0	148.1	148.9	149.6
102.5°	174.2	175.0	175.8	176.6	177.7	179.3	180.7	182.2	183.7	184.3	185.0
105°	227.2	227.7	228.1	228.6	229.8	231.9	233.9	235.9	237.9	237.9	237.9
107.5°	289.2	289.4	289.7	290.0	290.5	291.3	292.2	293.0	293.8	294.5	295.2
110°	328.1	328.5	328.9	329.4	329.8	330.3	330.7	331.2	331.6	332.5	333.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	368.2	368.5	368.7	369.0	369.2	369.3	369.4	369.5	369.5	370.6	371.7
115°	429.1	429.8	430.4	431.1	431.2	430.8	430.3	429.9	429.4	429.7	429.9
117.5°	489.8	490.2	490.7	491.1	491.0	490.5	489.9	489.3	488.7	488.7	488.6
120°	528.6	529.9	531.3	532.6	532.7	531.6	530.5	529.4	528.3	528.0	527.8
122.5°	567.7	568.7	569.7	570.7	570.9	570.3	569.7	569.2	568.6	567.9	567.3
125°	627.7	628.3	629.0	629.7	629.9	629.3	628.9	628.4	628.0	627.1	626.2
127.5°	684.1	685.5	686.9	688.4	688.8	688.3	687.9	687.4	686.9	685.6	684.4
130°	721.5	723.4	725.1	726.9	727.5	726.8	726.1	725.5	724.8	723.9	723.0
132.5°	758.6	760.4	762.2	764.1	764.7	764.2	763.7	763.2	762.7	761.6	760.5
135°	814.9	816.2	817.5	818.9	819.4	819.2	819.0	818.8	818.5	817.7	816.8
137.5°	867.1	868.2	869.3	870.4	871.2	871.8	872.4	873.0	873.5	872.6	871.7
140°	903.3	904.4	905.5	906.7	907.4	907.6	907.8	908.1	908.3	908.1	907.8
142.5°	936.3	937.6	938.7	939.8	940.5	940.9	941.3	941.7	942.1	941.9	941.7
145°	987.3	987.7	988.3	988.7	989.3	989.9	990.6	991.3	991.9	991.7	991.5
147.5°	1032.9	1033.7	1034.5	1035.3	1036.0	1036.6	1037.2	1037.8	1038.5	1038.5	1038.5
150°	1064.0	1064.4	1064.8	1065.3	1065.7	1066.2	1066.6	1067.1	1067.5	1067.5	1067.5
152.5°	1089.9	1090.6	1091.2	1091.8	1092.3	1092.6	1092.8	1093.1	1093.4	1093.7	1094.1
155°	1130.0	1130.0	1130.0	1130.0	1130.1	1130.3	1130.5	1130.8	1131.0	1132.0	1132.9
157.5°	1164.5	1164.2	1163.9	1163.7	1163.6	1163.8	1164.0	1164.2	1164.3	1165.3	1166.2
160°	1186.0	1185.6	1185.2	1184.7	1184.5	1184.5	1184.5	1184.5	1184.5	1185.6	1186.7
162.5°	1205.2	1204.6	1204.0	1203.4	1203.2	1203.3	1203.5	1203.7	1203.9	1205.0	1206.1
165°	1230.1	1229.5	1228.8	1228.2	1227.8	1227.8	1227.8	1227.8	1227.8	1229.1	1230.5
167.5°	1249.9	1249.0	1248.1	1247.2	1246.9	1247.1	1247.2	1247.4	1247.6	1249.0	1250.3
170°	1261.2	1260.3	1259.4	1258.5	1258.1	1258.1	1258.1	1258.1	1258.1	1259.6	1261.2
172.5°	1270.1	1269.2	1268.3	1267.4	1266.9	1266.9	1266.9	1266.9	1266.9	1268.3	1269.7
175°	1279.3	1278.4	1277.6	1276.7	1276.2	1276.2	1276.2	1276.2	1276.2	1277.6	1278.9
177.5°	1283.3	1282.6	1281.9	1281.2	1280.8	1280.8	1280.8	1280.8	1280.8	1281.9	1283.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1723.8	1724.4	1731.5	1736.6	1734.0	1737.2	1738.5
5°	1883.4	1912.0	1927.0	1938.1	1938.9	1939.7	1946.1
7.5°	2109.6	2140.2	2162.6	2196.6	2206.8	2218.3	2214.9
10°	2274.7	2319.9	2358.8	2379.4	2401.7	2434.2	2408.0
12.5°	2428.9	2509.1	2568.3	2600.4	2621.3	2627.9	2615.0
15°	2683.4	2788.1	2844.5	2843.0	2914.4	2945.4	2896.9
17.5°	2916.8	3013.4	3090.9	3130.6	3190.1	3203.3	3197.2
20°	3059.6	3165.2	3225.5	3293.8	3324.7	3352.4	3357.2
22.5°	3182.8	3277.5	3342.4	3399.1	3425.1	3438.2	3446.2
25°	3309.6	3384.3	3423.1	3442.9	3450.1	3448.5	3438.2
27.5°	3300.8	3306.6	3263.8	3221.7	3184.1	3141.7	3127.0
30°	3215.2	3148.5	3029.5	2962.0	2862.8	2784.2	2815.9
32.5°	2989.8	2857.1	2723.4	2576.0	2453.9	2419.1	2384.2
35°	2551.6	2318.3	2181.8	2023.1	1959.5	1896.1	1852.4
37.5°	2064.4	1883.9	1721.9	1618.1	1554.5	1514.3	1492.8
40°	1784.9	1622.2	1488.9	1404.8	1356.3	1311.1	1304.8
42.5°	1562.2	1410.9	1310.5	1243.5	1197.0	1177.8	1163.9
45°	1279.4	1173.9	1106.4	1058.7	1027.8	1015.9	1000.1
47.5°	1082.9	1008.2	957.7	925.2	901.9	893.0	891.8
50°	973.0	911.1	873.8	848.4	830.2	827.0	814.4
52.5°	890.5	836.9	807.8	785.6	772.4	763.6	759.7
55°	773.1	737.3	711.1	698.4	688.1	679.3	679.3
57.5°	676.4	646.5	629.2	618.4	615.2	609.0	605.1
60°	616.7	591.3	577.8	568.3	561.9	562.7	555.5
62.5°	558.3	541.8	528.9	519.4	511.8	511.9	512.4
65°	475.4	462.7	453.2	450.0	445.2	439.7	441.3
67.5°	402.8	390.9	383.5	378.1	376.5	373.5	378.1
70°	350.8	342.0	336.5	331.7	330.1	330.9	335.0
72.5°	303.2	297.0	293.4	291.1	287.6	287.8	290.4
75°	238.1	233.4	230.1	227.8	227.0	227.0	227.0
77.5°	174.9	173.8	172.4	168.8	169.1	170.0	170.2
80°	138.1	135.7	134.9	133.3	131.0	129.4	133.3
82.5°	103.2	100.8	100.0	99.7	96.0	95.7	99.1
85°	55.5	53.2	53.9	53.2	53.2	52.4	52.4
87.5°	25.0	24.6	24.1	24.8	24.2	23.7	25.1
90°	26.9	27.8	28.5	28.9	29.4	29.8	30.2
92.5°	40.9	41.6	41.8	41.5	41.3	41.0	40.7
95°	77.3	78.2	78.7	78.7	78.7	78.7	78.7
97.5°	119.9	120.9	121.3	121.3	121.2	121.1	121.0
100°	150.2	150.9	151.5	151.9	152.3	152.8	153.2
102.5°	185.7	186.3	186.6	186.5	186.4	186.4	186.3
105°	237.9	237.9	238.1	238.5	239.0	239.4	239.9
107.5°	295.9	296.6	296.8	296.6	296.3	296.0	295.8
110°	334.4	335.3	335.5	335.0	334.6	334.2	333.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	372.7	373.9	374.4	374.3	374.2	374.1	374.0
115°	430.1	430.3	430.3	430.1	429.9	429.7	429.4
117.5°	488.6	488.6	488.2	487.6	487.0	486.4	485.6
120°	527.6	527.4	526.9	526.5	526.1	525.6	525.2
122.5°	566.8	566.2	565.6	565.0	564.3	563.7	563.1
125°	625.3	624.4	623.5	622.7	621.8	620.9	620.0
127.5°	683.2	681.9	680.8	679.7	678.6	677.6	676.6
130°	722.1	721.2	719.9	718.4	716.8	715.3	713.7
132.5°	759.5	758.4	757.3	756.1	754.9	753.7	752.5
135°	815.9	815.0	814.3	813.9	813.3	812.9	812.5
137.5°	870.8	869.8	868.9	868.1	867.2	866.4	865.6
140°	907.6	907.4	906.5	904.9	903.3	901.8	900.2
142.5°	941.5	941.2	940.5	939.3	938.1	936.9	935.6
145°	991.3	991.0	990.5	989.6	988.7	987.7	986.8
147.5°	1038.5	1038.5	1037.8	1036.5	1035.1	1033.8	1032.5
150°	1067.5	1067.5	1066.8	1065.5	1064.2	1062.8	1061.5
152.5°	1094.4	1094.8	1094.4	1093.2	1092.1	1090.9	1089.7
155°	1133.8	1134.6	1134.3	1132.8	1131.1	1129.5	1128.0
157.5°	1167.1	1168.1	1167.9	1166.7	1165.4	1164.2	1162.9
160°	1187.8	1188.9	1189.0	1188.2	1187.3	1186.4	1185.5
162.5°	1207.2	1208.3	1208.1	1206.7	1205.3	1203.9	1202.4
165°	1231.8	1233.1	1233.0	1231.5	1229.9	1228.4	1226.8
167.5°	1251.7	1253.1	1253.1	1251.7	1250.3	1249.0	1247.6
170°	1262.7	1264.4	1264.4	1262.7	1261.2	1259.6	1258.1
172.5°	1271.1	1272.4	1272.4	1270.8	1269.3	1267.7	1266.1
175°	1280.2	1281.6	1281.4	1279.9	1278.3	1276.8	1275.2
177.5°	1284.0	1285.2	1285.1	1283.8	1282.5	1281.3	1280.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2

(END OF REPORT)