

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: P332853-840

Luminaire Tested: **S124DIW-S1195D1340U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332853-840  
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: S124DIW-S1195D1340U840-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1340 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10792.4 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

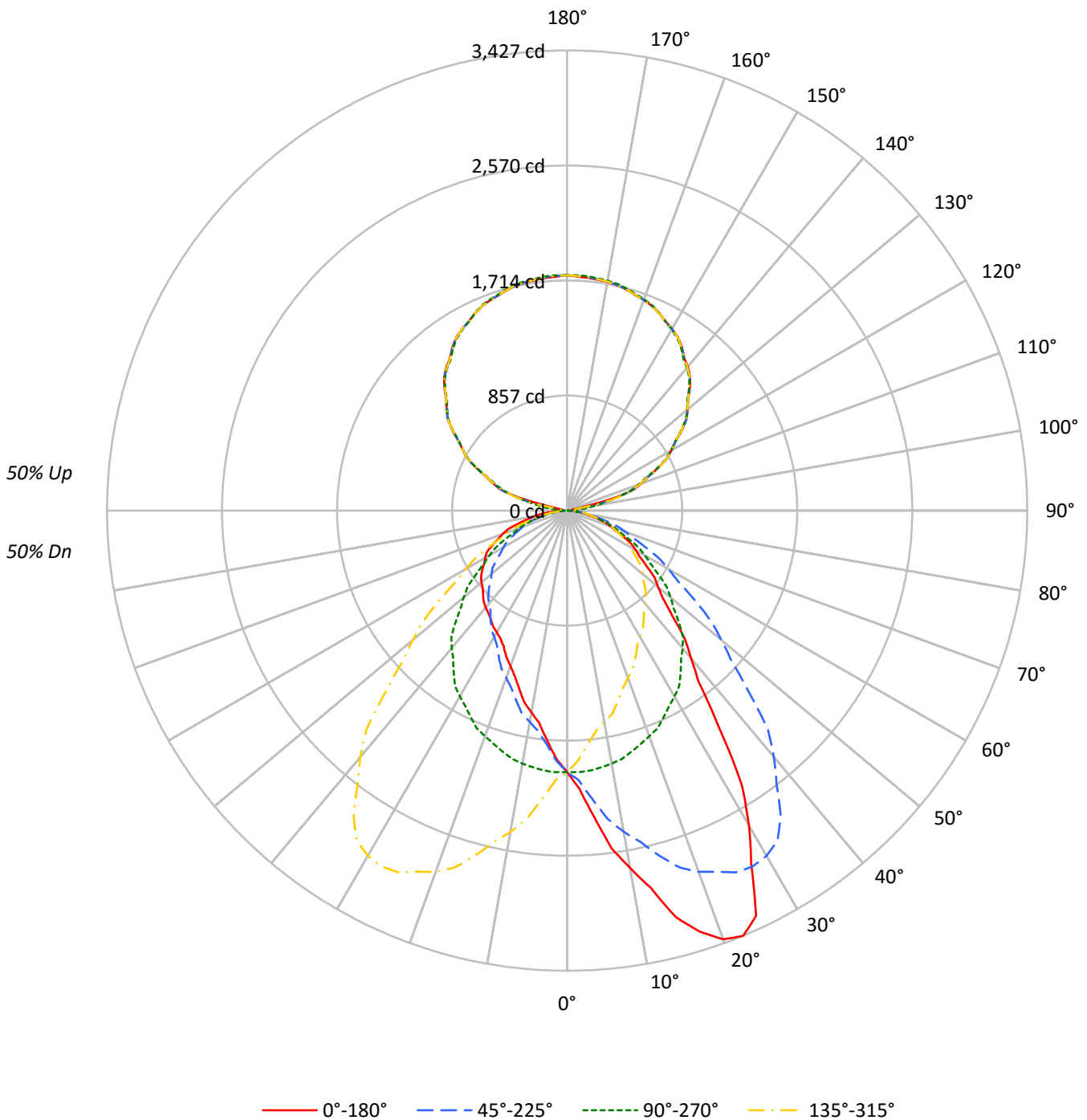
Input Watts (W): 76.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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	50	30	10	50	30	10	0														
RCR																																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50																				
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	50	49	48	42																				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36																				
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31																				
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	26																				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23																				
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	20																				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18																				
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16																				
9	51	39	31	26	47	36	29	25	31	26	22	27	23	19	22	19	17	15																				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13																				

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

	0°	90°	180°	270°
0°	15713	15713	15713	15713
5°	18504	15754	13904	15754
10°	22155	15684	12518	15684
15°	26213	15525	11496	15525
20°	29190	15364	10584	15364
25°	29661	15126	9954	15126
30°	25239	14897	9755	14897
35°	19404	14526	9758	14526
40°	15125	14089	9941	14089
45°	12611	13431	10107	13431
50°	11099	12627	10451	12627
55°	10169	11667	10871	11667
60°	9529	10805	11378	10805
65°	8871	9841	11798	9841
70°	8108	8889	12066	8889
75°	7243	7820	11918	7820
80°	6072	6406	11544	6406
85°	4483	4631	11060	4631



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.6	1.8
10°-20°	584.5	5.4
20°-30°	926.8	8.6
30°-40°	1031.4	9.6
40°-50°	938.9	8.7
50°-60°	767.2	7.1
60°-70°	547.7	5.1
70°-80°	301.6	2.8
80°-90°	87.4	0.8
90°-100°	59.9	0.6
100°-110°	381.9	3.5
110°-120°	730.6	6.8
120°-130°	927.4	8.6
130°-140°	992.3	9.2
140°-150°	927.9	8.6
150°-160°	748.3	6.9
160°-170°	482.6	4.5
170°-180°	166.3	1.5
0°-30°	1700.9	15.8
0°-40°	2732.3	25.3
0°-60°	4438.4	41.1
0°-90°	5375.2	49.8
90°-120°	1172.4	10.9
90°-150°	4020.0	37.2
90°-180°	5417.0	50.2
0°-180°	10792.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1946	1946	1946	1946	1946	
5°	2283	1944	1716	1944	2283	232
15°	3136	1858	1376	1858	3136	886
25°	3330	1698	1118	1698	3330	1468
35°	1969	1474	990	1474	1969	1250
45°	1105	1176	885	1176	1105	870
55°	722	829	772	829	722	653
65°	464	515	618	515	464	460
75°	232	251	382	251	232	247
85°	48	50	119	50	48	60
90°	39	4	39	4	39	19
95°	38	72	38	72	38	30
105°	373	394	373	394	373	326
115°	741	736	741	736	741	734
125°	1043	1035	1043	1035	1043	929
135°	1293	1284	1293	1284	1293	995
145°	1488	1480	1488	1480	1488	930
155°	1622	1623	1622	1623	1622	748
165°	1704	1712	1704	1712	1704	481
175°	1741	1751	1741	1751	1741	166
180°	1751	1751	1751	1751	1751	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2071.5	2070.8	2064.5	2063.2	2058.6	2052.9	2051.5	2041.2	2020.5	2010.8	2008.3
5°	2283.4	2299.6	2278.6	2274.5	2272.1	2245.5	2231.8	2215.6	2178.6	2156.9	2139.9
7.5°	2536.3	2538.2	2529.0	2521.6	2501.1	2477.9	2443.1	2406.0	2361.8	2315.8	2281.2
10°	2702.7	2709.2	2698.7	2697.0	2655.9	2630.1	2578.5	2535.0	2485.0	2429.3	2378.5
12.5°	2878.1	2869.1	2863.8	2829.2	2821.7	2774.6	2714.6	2669.8	2592.7	2528.7	2461.1
15°	3136.4	3118.8	3107.5	3059.9	3036.5	2971.1	2907.5	2858.3	2757.5	2661.6	2589.0
17.5°	3288.0	3305.8	3279.6	3260.1	3199.7	3153.9	3088.8	2985.6	2906.7	2787.5	2695.9
20°	3397.7	3399.3	3384.8	3364.7	3317.1	3259.0	3188.0	3075.1	2980.8	2862.4	2736.5
22.5°	3427.4	3427.7	3421.5	3402.7	3366.7	3319.6	3248.0	3153.9	3039.6	2910.7	2784.9
25°	3329.9	3326.7	3334.0	3355.0	3341.2	3326.7	3285.6	3215.5	3109.1	2972.7	2837.3
27.5°	2968.1	2990.3	3031.3	3082.9	3132.6	3170.5	3181.2	3166.7	3100.8	2988.8	2846.8
30°	2707.5	2734.9	2765.6	2817.1	2917.2	2974.4	3037.3	3084.8	3058.3	2968.8	2836.5
32.5°	2421.2	2427.9	2473.4	2532.0	2623.6	2733.8	2833.5	2930.0	2962.1	2915.2	2804.9
35°	1968.9	1980.2	2029.4	2087.5	2199.6	2334.2	2484.2	2618.0	2728.5	2772.8	2716.3
37.5°	1606.8	1639.2	1673.9	1736.3	1834.9	1956.2	2112.0	2285.2	2449.8	2560.1	2578.8
40°	1435.2	1455.3	1480.4	1527.9	1611.7	1731.1	1864.9	2063.3	2238.3	2396.3	2447.9
42.5°	1299.7	1311.5	1326.9	1369.9	1433.7	1552.5	1674.7	1849.2	2024.8	2213.7	2300.2
45°	1104.6	1116.7	1142.5	1167.5	1215.9	1298.1	1411.8	1555.3	1731.9	1914.1	2073.8
47.5°	963.7	971.4	986.7	1013.5	1054.6	1108.8	1201.3	1321.2	1484.9	1661.7	1831.9
50°	883.7	890.1	902.2	926.5	957.9	1006.2	1082.1	1194.1	1322.3	1500.5	1667.4
52.5°	820.5	823.0	831.9	848.4	873.3	914.0	976.2	1068.9	1188.1	1347.0	1513.3
55°	722.5	725.7	733.8	745.8	767.6	793.3	840.9	910.3	1014.3	1152.2	1296.5
57.5°	641.8	644.1	650.9	655.5	673.4	694.4	730.9	780.5	859.3	976.2	1105.1
60°	590.2	588.5	596.6	600.7	612.8	630.6	658.7	706.3	774.9	869.2	987.7
62.5°	539.9	537.7	544.4	549.8	556.6	571.8	594.9	632.2	687.7	773.1	875.5
65°	464.4	461.2	465.2	471.7	478.2	486.1	503.1	536.1	580.6	641.8	720.0
67.5°	388.6	392.0	392.6	395.9	399.6	410.6	422.1	445.6	476.9	525.8	592.2
70°	343.5	344.3	347.5	347.5	349.9	359.6	369.3	382.9	413.6	458.8	512.8
72.5°	298.3	301.7	300.4	303.0	304.8	311.2	318.3	331.3	357.5	391.0	436.7
75°	232.2	234.6	234.6	235.4	237.8	240.2	245.9	255.6	274.2	299.1	330.5
77.5°	169.4	169.7	170.8	173.7	173.7	177.5	181.8	189.5	198.6	215.8	235.0
80°	130.6	132.2	131.4	133.0	133.0	136.2	137.8	147.5	151.6	162.9	178.1
82.5°	95.8	97.4	97.3	99.5	100.8	101.4	103.7	107.6	111.6	121.6	127.8
85°	48.4	50.0	48.4	50.0	52.4	53.2	55.6	56.5	59.7	62.1	67.8
87.5°	22.0	23.8	23.7	24.2	25.4	25.9	26.2	25.1	27.4	27.7	29.8
90°	39.3	38.7	38.2	37.6	37.0	35.9	34.0	32.3	30.6	28.8	26.5
92.5°	36.2	36.1	36.0	35.9	35.6	34.7	33.0	31.3	29.5	27.8	25.4
95°	38.0	37.7	37.4	37.1	36.9	35.9	34.0	32.3	30.6	28.8	28.5
97.5°	36.7	36.4	36.1	35.9	35.5	35.2	35.1	34.9	34.7	34.5	67.1
100°	36.7	36.4	36.1	35.9	35.5	37.9	42.8	47.8	52.7	57.7	97.8
102.5°	37.8	37.7	37.6	37.6	37.5	64.1	117.5	171.0	224.3	277.7	283.0
105°	373.3	383.7	394.3	404.8	415.3	419.2	416.6	413.9	411.3	408.7	407.2
107.5°	520.3	519.2	518.1	516.9	515.8	514.6	513.4	512.1	510.8	509.6	507.6
110°	584.2	583.3	582.5	581.6	580.7	580.0	579.4	578.9	578.2	577.6	575.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	648.1	647.0	645.9	644.8	643.7	643.2	643.3	643.4	643.6	643.7	642.9
115°	741.3	741.3	741.3	741.3	741.3	741.0	740.5	739.9	739.3	738.7	739.0
117.5°	836.2	836.4	836.5	836.6	836.7	836.8	836.9	837.0	837.2	837.3	836.6
120°	896.0	896.6	897.1	897.7	898.3	898.3	897.7	897.1	896.6	896.0	896.3
122.5°	954.6	955.2	955.7	956.3	956.9	957.0	956.7	956.3	956.0	955.6	955.2
125°	1042.7	1042.4	1042.1	1041.8	1041.5	1040.9	1040.1	1039.2	1038.2	1037.4	1037.9
127.5°	1119.9	1120.1	1120.3	1120.6	1120.8	1121.1	1121.3	1121.5	1121.6	1121.8	1120.4
130°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.2	1171.8	1171.5	1171.3	1171.0	1170.1
132.5°	1220.5	1220.7	1221.0	1221.2	1221.4	1221.4	1221.1	1220.8	1220.5	1220.2	1219.1
135°	1292.8	1292.2	1291.6	1291.1	1290.5	1289.9	1289.3	1288.8	1288.2	1287.6	1286.5
137.5°	1354.6	1354.8	1355.0	1355.1	1355.3	1355.1	1354.4	1353.8	1353.2	1352.5	1351.3
140°	1397.7	1397.4	1397.0	1396.7	1396.4	1395.8	1395.0	1394.1	1393.2	1392.4	1391.8
142.5°	1433.2	1433.2	1433.1	1433.1	1433.0	1432.7	1432.0	1431.4	1430.8	1430.1	1429.8
145°	1488.0	1487.4	1486.8	1486.2	1485.7	1485.2	1484.9	1484.6	1484.4	1484.1	1484.1
147.5°	1533.3	1533.0	1532.8	1532.5	1532.2	1531.9	1531.7	1531.5	1531.2	1531.0	1531.3
150°	1562.7	1562.4	1562.1	1561.8	1561.5	1561.4	1561.4	1561.4	1561.4	1561.4	1561.7
152.5°	1587.8	1588.0	1588.1	1588.3	1588.5	1588.3	1587.9	1587.4	1587.0	1586.5	1587.0
155°	1621.6	1622.4	1623.4	1624.3	1625.1	1625.0	1623.8	1622.7	1621.4	1620.3	1621.1
157.5°	1649.9	1651.4	1652.9	1654.5	1656.0	1656.0	1654.5	1652.9	1651.4	1649.9	1650.9
160°	1668.8	1670.5	1672.2	1674.0	1675.8	1675.8	1674.0	1672.2	1670.5	1668.8	1669.0
162.5°	1683.4	1685.4	1687.4	1689.4	1691.3	1691.4	1689.7	1688.0	1686.2	1684.5	1684.8
165°	1704.1	1706.8	1709.4	1712.0	1714.5	1714.8	1712.4	1710.1	1707.8	1705.5	1705.5
167.5°	1719.6	1722.5	1725.4	1728.3	1731.2	1731.4	1728.8	1726.3	1723.7	1721.1	1721.3
170°	1729.0	1731.9	1734.8	1737.8	1740.6	1740.9	1738.6	1736.3	1733.9	1731.6	1731.3
172.5°	1734.2	1737.4	1740.5	1743.6	1746.9	1747.3	1744.9	1742.5	1740.2	1737.9	1737.6
175°	1740.8	1744.2	1747.8	1751.3	1754.7	1755.2	1752.6	1750.0	1747.4	1744.7	1744.4
177.5°	1744.9	1747.8	1750.6	1753.3	1756.2	1756.7	1754.7	1752.9	1751.0	1749.2	1748.7
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2008.9	1999.9	1993.5	1988.3	1974.1	1965.7	1959.2	1950.3	1940.0	1928.9	1915.4
5°	2122.9	2095.6	2075.4	2044.8	2015.7	1991.6	1966.5	1944.0	1916.5	1886.7	1864.9
7.5°	2242.8	2202.0	2149.7	2104.5	2053.5	2009.1	1969.4	1928.8	1886.5	1845.6	1808.1
10°	2318.9	2266.4	2208.4	2139.9	2075.4	2018.1	1964.9	1913.3	1863.3	1813.3	1770.6
12.5°	2400.9	2335.5	2249.7	2169.6	2097.3	2020.7	1956.5	1893.3	1833.0	1780.5	1730.6
15°	2510.8	2416.4	2317.2	2210.0	2114.9	2025.4	1937.5	1857.6	1790.0	1720.6	1672.2
17.5°	2578.4	2461.6	2348.2	2236.1	2121.0	2008.1	1913.3	1821.3	1736.5	1667.6	1606.6
20°	2622.8	2506.8	2365.6	2253.6	2116.5	2000.4	1890.8	1788.4	1699.7	1626.3	1563.4
22.5°	2661.6	2527.4	2386.3	2238.8	2102.3	1979.1	1859.2	1756.1	1665.5	1588.2	1527.9
25°	2682.5	2528.5	2375.3	2228.6	2073.8	1927.8	1819.0	1698.1	1601.2	1519.8	1455.3
27.5°	2684.8	2520.1	2346.8	2183.7	2024.0	1888.0	1750.6	1642.5	1542.1	1456.0	1394.1
30°	2677.7	2506.0	2319.7	2143.1	1982.7	1835.1	1715.8	1598.1	1495.7	1410.2	1345.6
32.5°	2655.1	2476.3	2284.8	2098.0	1931.7	1787.4	1664.2	1552.3	1452.5	1368.3	1300.5
35°	2589.8	2413.2	2209.2	2014.9	1844.8	1698.9	1587.6	1473.9	1373.9	1294.1	1228.8
37.5°	2487.7	2328.0	2120.7	1919.7	1752.5	1606.0	1495.7	1392.9	1302.8	1221.7	1154.8
40°	2398.7	2258.5	2050.4	1854.4	1673.9	1534.4	1431.2	1336.9	1247.3	1170.7	1107.0
42.5°	2296.1	2173.9	1982.1	1774.4	1600.3	1460.2	1359.6	1274.9	1190.5	1119.7	1056.1
45°	2113.2	2032.7	1852.1	1660.1	1478.7	1346.5	1250.5	1176.4	1105.4	1036.1	982.9
47.5°	1903.0	1863.0	1710.9	1528.7	1356.5	1226.2	1143.0	1074.5	1012.2	953.5	906.6
50°	1761.7	1742.4	1610.9	1435.2	1270.7	1148.1	1064.3	1005.4	952.2	900.6	856.3
52.5°	1622.4	1621.7	1503.3	1342.3	1190.1	1072.1	988.9	933.8	887.8	845.8	806.0
55°	1409.4	1432.0	1339.3	1195.7	1059.4	953.0	878.1	828.9	796.6	761.9	732.2
57.5°	1213.8	1251.2	1174.8	1048.3	934.6	836.6	771.3	734.4	700.0	679.0	657.3
60°	1086.1	1121.6	1061.9	955.4	848.2	764.4	702.3	669.2	639.3	624.9	609.6
62.5°	972.5	1004.1	960.0	861.3	768.2	687.6	635.2	603.4	583.3	567.4	557.3
65°	810.3	837.0	799.0	727.3	647.4	583.0	540.2	515.2	495.8	489.4	478.2
67.5°	655.0	679.2	658.7	597.7	533.7	484.9	451.5	427.5	416.1	410.4	402.3
70°	562.8	586.9	565.2	512.0	462.8	421.7	390.2	376.6	364.5	362.0	350.7
72.5°	484.7	501.2	479.4	437.8	395.8	361.0	336.7	322.3	316.1	311.7	305.6
75°	363.7	378.2	363.7	331.3	301.5	277.4	256.4	250.7	243.5	241.1	237.0
77.5°	257.4	269.9	258.8	238.6	216.4	197.7	186.4	179.2	177.5	173.4	175.3
80°	196.7	204.8	194.3	180.6	162.9	150.0	141.9	137.8	133.0	131.4	134.6
82.5°	141.3	144.8	139.5	130.3	117.0	108.7	103.2	98.6	97.6	97.9	97.9
85°	73.4	72.6	71.8	63.7	59.7	54.0	50.8	50.0	49.2	50.8	52.4
87.5°	29.4	29.5	28.4	25.2	22.7	20.1	18.9	17.6	18.9	20.1	21.4
90°	24.1	21.8	19.5	16.8	13.5	10.3	7.2	3.9	7.2	10.3	13.5
92.5°	23.1	20.8	18.5	17.2	17.1	16.9	16.7	16.5	16.7	16.9	17.1
95°	28.3	28.0	27.7	32.4	42.3	52.2	62.1	72.0	62.1	52.2	42.3
97.5°	99.6	132.0	164.5	177.6	171.5	165.3	159.2	153.0	159.2	165.3	171.5
100°	137.9	178.1	218.3	235.8	230.6	225.3	220.0	214.8	220.0	225.3	230.6
102.5°	288.2	293.4	298.6	299.3	295.5	291.6	287.8	284.0	287.8	291.6	295.5
105°	405.8	404.3	402.8	401.2	399.5	397.8	396.0	394.3	396.0	397.8	399.5
107.5°	505.5	503.6	501.6	500.2	499.3	498.5	497.6	496.7	497.6	498.5	499.3
110°	574.1	572.4	570.7	569.4	568.5	567.6	566.7	565.8	566.7	567.6	568.5





TEST NUMBER: P332853-840

CATALOG NUMBER: S124DIW-S1195D1340U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	642.1	641.3	640.4	639.2	637.6	636.1	634.5	632.9	634.5	636.1	637.6
115°	739.3	739.6	739.9	739.6	738.7	737.9	737.0	736.1	737.0	737.9	738.7
117.5°	836.0	835.4	834.7	833.7	832.6	831.4	830.3	829.1	830.3	831.4	832.6
120°	896.6	896.9	897.1	896.7	895.5	894.3	893.1	892.0	893.1	894.3	895.5
122.5°	954.8	954.4	954.0	953.5	952.8	952.1	951.4	950.7	951.4	952.1	952.8
125°	1038.5	1039.2	1039.8	1039.5	1038.2	1037.1	1035.9	1034.8	1035.9	1037.1	1038.2
127.5°	1119.0	1117.7	1116.4	1115.6	1115.3	1115.0	1114.7	1114.4	1114.7	1115.0	1115.3
130°	1169.2	1168.4	1167.5	1166.9	1166.6	1166.4	1166.1	1165.8	1166.1	1166.4	1166.6
132.5°	1218.0	1217.0	1215.9	1215.0	1214.5	1214.0	1213.5	1212.9	1213.5	1214.0	1214.5
135°	1285.3	1284.0	1282.9	1282.5	1282.8	1283.0	1283.3	1283.6	1283.3	1283.0	1282.8
137.5°	1350.0	1348.7	1347.5	1346.8	1346.7	1346.5	1346.4	1346.3	1346.4	1346.5	1346.7
140°	1391.2	1390.6	1390.1	1389.5	1388.9	1388.3	1387.8	1387.2	1387.8	1388.3	1388.9
142.5°	1429.4	1429.1	1428.7	1428.1	1426.9	1425.9	1424.8	1423.8	1424.8	1425.9	1426.9
145°	1484.1	1484.1	1484.1	1483.6	1482.8	1481.9	1481.0	1480.2	1481.0	1481.9	1482.8
147.5°	1531.6	1531.9	1532.2	1531.5	1529.8	1528.2	1526.5	1524.9	1526.5	1528.2	1529.8
150°	1562.0	1562.3	1562.5	1562.1	1560.9	1559.7	1558.6	1557.4	1558.6	1559.7	1560.9
152.5°	1587.5	1588.1	1588.6	1588.4	1587.4	1586.5	1585.6	1584.7	1585.6	1586.5	1587.4
155°	1622.0	1623.0	1623.8	1624.1	1623.8	1623.5	1623.2	1623.0	1623.2	1623.5	1623.8
157.5°	1651.8	1652.8	1653.9	1654.5	1654.6	1654.8	1655.0	1655.2	1655.0	1654.8	1654.6
160°	1669.3	1669.6	1669.9	1670.5	1671.3	1672.2	1673.1	1674.0	1673.1	1672.2	1671.3
162.5°	1685.1	1685.4	1685.7	1686.4	1687.5	1688.6	1689.6	1690.7	1689.6	1688.6	1687.5
165°	1705.5	1705.5	1705.5	1706.2	1707.6	1709.1	1710.5	1712.0	1710.5	1709.1	1707.6
167.5°	1721.5	1721.7	1721.8	1722.7	1724.2	1725.8	1727.3	1728.8	1727.3	1725.8	1724.2
170°	1731.0	1730.7	1730.5	1731.2	1732.9	1734.6	1736.5	1738.2	1736.5	1734.6	1732.9
172.5°	1737.4	1737.1	1736.8	1737.5	1739.2	1741.0	1742.7	1744.4	1742.7	1741.0	1739.2
175°	1744.1	1743.8	1743.5	1744.2	1746.1	1747.8	1749.5	1751.3	1749.5	1747.8	1746.1
177.5°	1748.3	1747.8	1747.3	1747.9	1749.5	1751.1	1752.8	1754.4	1752.8	1751.1	1749.5
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3



TEST NUMBER: P332853-840

CATALOG NUMBER: S124DIW-S1195D1340U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1908.9	1903.2	1894.8	1883.2	1873.5	1863.2	1860.6	1856.7	1864.4	1858.1	1856.0
5°	1846.4	1829.5	1807.7	1782.7	1768.2	1747.3	1743.2	1735.2	1727.1	1726.3	1718.2
7.5°	1780.1	1755.2	1726.8	1701.2	1677.7	1654.9	1639.8	1636.6	1624.7	1617.7	1609.6
10°	1737.6	1706.9	1673.9	1649.7	1622.2	1598.1	1581.1	1571.5	1563.4	1554.5	1546.5
12.5°	1687.3	1654.7	1627.4	1601.2	1568.7	1550.3	1522.5	1505.7	1504.1	1504.2	1483.3
15°	1628.7	1596.5	1554.5	1517.4	1499.6	1464.2	1448.9	1429.6	1417.4	1405.3	1395.7
17.5°	1561.8	1521.7	1488.8	1446.3	1412.5	1384.2	1364.1	1352.5	1334.2	1317.2	1304.7
20°	1519.8	1477.1	1442.5	1397.2	1360.2	1325.5	1308.6	1292.5	1278.8	1264.3	1250.5
22.5°	1477.2	1432.6	1390.2	1346.4	1311.8	1275.3	1258.9	1237.0	1224.0	1215.9	1202.1
25°	1410.2	1361.8	1313.4	1271.5	1236.1	1203.8	1182.0	1165.1	1150.5	1144.1	1135.3
27.5°	1337.3	1289.3	1242.5	1194.9	1154.6	1131.3	1113.8	1101.1	1092.7	1084.1	1080.2
30°	1290.9	1240.9	1190.9	1146.5	1109.4	1086.1	1070.0	1061.1	1054.6	1050.6	1046.5
32.5°	1243.7	1194.5	1141.9	1101.4	1068.1	1047.3	1035.1	1026.2	1023.0	1021.6	1020.2
35°	1168.3	1118.3	1070.0	1033.7	1002.2	994.1	983.7	978.9	977.2	982.9	985.3
37.5°	1095.3	1048.8	1004.3	969.2	948.6	936.8	933.2	933.3	939.2	944.1	950.0
40°	1048.1	1003.0	961.1	930.5	911.1	903.8	902.2	906.3	912.7	918.4	924.8
42.5°	1002.4	957.9	919.8	891.1	877.6	870.9	871.9	876.0	884.9	891.9	901.6
45°	931.3	894.1	857.1	833.7	822.4	824.0	824.0	831.3	840.1	850.6	861.1
47.5°	864.3	827.0	796.5	776.8	770.9	769.5	774.1	783.6	796.3	809.2	823.8
50°	819.2	783.8	757.1	739.3	733.0	735.4	741.7	750.6	766.0	782.1	797.4
52.5°	773.4	741.1	716.5	700.0	695.5	699.8	706.3	720.3	733.8	751.1	769.7
55°	702.3	674.9	655.5	643.4	641.8	644.2	651.5	666.8	686.1	707.9	725.7
57.5°	631.5	608.5	590.9	582.5	583.3	585.5	597.4	615.7	636.3	659.5	682.5
60°	583.7	562.8	548.3	541.8	542.6	547.4	562.0	579.0	604.7	627.3	651.5
62.5°	538.6	520.2	506.3	500.6	499.4	510.1	523.9	541.5	567.3	592.5	618.5
65°	466.1	451.5	440.2	437.0	439.4	447.5	465.2	488.6	510.4	536.9	564.4
67.5°	395.1	383.1	375.4	376.9	379.8	391.7	406.6	426.7	451.4	479.0	506.0
70°	349.9	338.6	332.1	333.0	337.8	352.3	365.3	385.4	412.0	440.2	462.8
72.5°	303.5	296.1	290.2	293.7	298.5	308.5	324.6	344.8	368.2	394.5	418.3
75°	233.0	233.0	229.7	232.2	239.4	249.1	261.3	282.2	305.6	326.6	345.9
77.5°	172.9	171.1	173.2	176.1	180.3	191.8	205.6	220.6	238.2	259.1	275.1
80°	132.2	133.0	137.0	141.9	143.5	152.4	166.9	180.6	194.3	212.1	227.4
82.5°	99.4	100.2	102.2	108.4	110.0	119.5	128.9	142.6	155.0	166.9	179.7
85°	54.0	54.0	58.1	60.5	64.5	71.0	76.5	84.6	95.9	104.0	116.1
87.5°	24.0	24.5	27.6	29.4	31.7	35.4	37.1	44.5	47.5	51.0	57.1
90°	16.8	19.5	21.8	24.1	26.5	28.8	30.6	32.3	34.0	35.9	37.0
92.5°	17.2	18.5	20.8	23.1	25.4	27.8	29.5	31.3	33.0	34.7	35.6
95°	32.4	27.7	28.0	28.3	28.5	28.8	30.6	32.3	34.0	35.9	36.9
97.5°	177.6	164.5	132.0	99.6	67.1	34.5	34.7	34.9	35.1	35.2	35.5
100°	235.8	218.3	178.1	137.9	97.8	57.7	52.7	47.8	42.8	37.9	35.5
102.5°	299.3	298.6	293.4	288.2	283.0	277.7	224.3	171.0	117.5	64.1	37.5
105°	401.2	402.8	404.3	405.8	407.2	408.7	411.3	413.9	416.6	419.2	415.3
107.5°	500.2	501.6	503.6	505.5	507.6	509.6	510.8	512.1	513.4	514.6	515.8
110°	569.4	570.7	572.4	574.1	575.9	577.6	578.2	578.9	579.4	580.0	580.7



TEST NUMBER: P332853-840

CATALOG NUMBER: S124DIW-S1195D1340U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	639.2	640.4	641.3	642.1	642.9	643.7	643.6	643.4	643.3	643.2	643.7
115°	739.6	739.9	739.6	739.3	739.0	738.7	739.3	739.9	740.5	741.0	741.3
117.5°	833.7	834.7	835.4	836.0	836.6	837.3	837.2	837.0	836.9	836.8	836.7
120°	896.7	897.1	896.9	896.6	896.3	896.0	896.6	897.1	897.7	898.3	898.3
122.5°	953.5	954.0	954.4	954.8	955.2	955.6	956.0	956.3	956.7	957.0	956.9
125°	1039.5	1039.8	1039.2	1038.5	1037.9	1037.4	1038.2	1039.2	1040.1	1040.9	1041.5
127.5°	1115.6	1116.4	1117.7	1119.0	1120.4	1121.8	1121.6	1121.5	1121.3	1121.1	1120.8
130°	1166.9	1167.5	1168.4	1169.2	1170.1	1171.0	1171.3	1171.5	1171.8	1172.2	1172.4
132.5°	1215.0	1215.9	1217.0	1218.0	1219.1	1220.2	1220.5	1220.8	1221.1	1221.4	1221.4
135°	1282.5	1282.9	1284.0	1285.3	1286.5	1287.6	1288.2	1288.8	1289.3	1289.9	1290.5
137.5°	1346.8	1347.5	1348.7	1350.0	1351.3	1352.5	1353.2	1353.8	1354.4	1355.1	1355.3
140°	1389.5	1390.1	1390.6	1391.2	1391.8	1392.4	1393.2	1394.1	1395.0	1395.8	1396.4
142.5°	1428.1	1428.7	1429.1	1429.4	1429.8	1430.1	1430.8	1431.4	1432.0	1432.7	1433.0
145°	1483.6	1484.1	1484.1	1484.1	1484.1	1484.1	1484.4	1484.6	1484.9	1485.2	1485.7
147.5°	1531.5	1532.2	1531.9	1531.6	1531.3	1531.0	1531.2	1531.5	1531.7	1531.9	1532.2
150°	1562.1	1562.5	1562.3	1562.0	1561.7	1561.4	1561.4	1561.4	1561.4	1561.4	1561.5
152.5°	1588.4	1588.6	1588.1	1587.5	1587.0	1586.5	1587.0	1587.4	1587.9	1588.3	1588.5
155°	1624.1	1623.8	1623.0	1622.0	1621.1	1620.3	1621.4	1622.7	1623.8	1625.0	1625.1
157.5°	1654.5	1653.9	1652.8	1651.8	1650.9	1649.9	1651.4	1652.9	1654.5	1656.0	1656.0
160°	1670.5	1669.9	1669.6	1669.3	1669.0	1668.8	1670.5	1672.2	1674.0	1675.8	1675.8
162.5°	1686.4	1685.7	1685.4	1685.1	1684.8	1684.5	1686.2	1688.0	1689.7	1691.4	1691.3
165°	1706.2	1705.5	1705.5	1705.5	1705.5	1705.5	1707.8	1710.1	1712.4	1714.8	1714.5
167.5°	1722.7	1721.8	1721.7	1721.5	1721.3	1721.1	1723.7	1726.3	1728.8	1731.4	1731.2
170°	1731.2	1730.5	1730.7	1731.0	1731.3	1731.6	1733.9	1736.3	1738.6	1740.9	1740.6
172.5°	1737.5	1736.8	1737.1	1737.4	1737.6	1737.9	1740.2	1742.5	1744.9	1747.3	1746.9
175°	1744.2	1743.5	1743.8	1744.1	1744.4	1744.7	1747.4	1750.0	1752.6	1755.2	1754.7
177.5°	1747.9	1747.3	1747.8	1748.3	1748.7	1749.2	1751.0	1752.9	1754.7	1756.7	1756.2
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3



TEST NUMBER: P332853-840

CATALOG NUMBER: S124DIW-S1195D1340U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1854.8	1853.5	1849.0	1848.4	1849.0	1853.5	1854.8	1856.0	1858.1	1864.4	1856.7
5°	1713.3	1709.3	1706.9	1715.8	1706.9	1709.3	1713.3	1718.2	1726.3	1727.1	1735.2
7.5°	1606.8	1603.6	1596.5	1594.2	1596.5	1603.6	1606.8	1609.6	1617.7	1624.7	1636.6
10°	1538.4	1535.2	1528.7	1527.1	1528.7	1535.2	1538.4	1546.5	1554.5	1563.4	1571.5
12.5°	1472.6	1466.1	1464.9	1466.5	1464.9	1466.1	1472.6	1483.3	1504.2	1504.1	1505.7
15°	1385.2	1382.0	1373.1	1375.5	1373.1	1382.0	1385.2	1395.7	1405.3	1417.4	1429.6
17.5°	1299.1	1295.3	1284.4	1293.9	1284.4	1295.3	1299.1	1304.7	1317.2	1334.2	1352.5
20°	1244.9	1238.5	1232.8	1232.0	1232.8	1238.5	1244.9	1250.5	1264.3	1278.8	1292.5
22.5°	1193.3	1187.5	1187.0	1181.7	1187.0	1187.5	1193.3	1202.1	1215.9	1224.0	1237.0
25°	1128.8	1123.2	1121.6	1117.5	1121.6	1123.2	1128.8	1135.3	1144.1	1150.5	1165.1
27.5°	1079.3	1076.5	1073.7	1074.9	1073.7	1076.5	1079.3	1080.2	1084.1	1092.7	1101.1
30°	1048.9	1048.1	1046.5	1046.5	1046.5	1048.1	1048.9	1046.5	1050.6	1054.6	1061.1
32.5°	1023.8	1023.7	1024.6	1024.6	1024.6	1023.7	1023.8	1020.2	1021.6	1023.0	1026.2
35°	988.6	990.9	992.5	990.1	992.5	990.9	988.6	985.3	982.9	977.2	978.9
37.5°	956.5	959.0	961.3	964.0	961.3	959.0	956.5	950.0	944.1	939.2	933.3
40°	932.1	937.8	939.3	943.3	939.3	937.8	932.1	924.8	918.4	912.7	906.3
42.5°	908.9	915.1	919.3	920.1	919.3	915.1	908.9	901.6	891.9	884.9	876.0
45°	873.2	879.7	885.3	885.3	885.3	879.7	873.2	861.1	850.6	840.1	831.3
47.5°	836.3	845.7	851.3	852.7	851.3	845.7	836.3	823.8	809.2	796.3	783.6
50°	811.1	822.4	828.1	832.1	828.1	822.4	811.1	797.4	782.1	766.0	750.6
52.5°	786.6	797.9	805.5	807.6	805.5	797.9	786.6	769.7	751.1	733.8	720.3
55°	744.2	760.3	769.2	772.4	769.2	760.3	744.2	725.7	707.9	686.1	666.8
57.5°	704.2	719.0	729.3	731.7	729.3	719.0	704.2	682.5	659.5	636.3	615.7
60°	673.3	689.3	702.3	704.7	702.3	689.3	673.3	651.5	627.3	604.7	579.0
62.5°	641.7	658.4	670.0	676.3	670.0	658.4	641.7	618.5	592.5	567.3	541.5
65°	586.9	603.9	615.2	617.6	615.2	603.9	586.9	564.4	536.9	510.4	488.6
67.5°	527.4	544.2	551.7	556.3	551.7	544.2	527.4	506.0	479.0	451.4	426.7
70°	485.3	499.1	507.2	511.2	507.2	499.1	485.3	462.8	440.2	412.0	385.4
72.5°	437.7	452.0	461.4	462.1	461.4	452.0	437.7	418.3	394.5	368.2	344.8
75°	364.5	377.4	382.1	382.1	382.1	377.4	364.5	345.9	326.6	305.6	282.2
77.5°	288.5	295.1	301.2	302.6	301.2	295.1	288.5	275.1	259.1	238.2	220.6
80°	239.4	243.5	248.3	248.3	248.3	243.5	239.4	227.4	212.1	194.3	180.6
82.5°	189.1	192.6	197.4	196.7	197.4	192.6	189.1	179.7	166.9	155.0	142.6
85°	114.5	121.8	121.0	119.4	121.0	121.8	114.5	116.1	104.0	95.9	84.6
87.5°	59.1	59.9	61.9	63.3	61.9	59.9	59.1	57.1	51.0	47.5	44.5
90°	37.6	38.2	38.7	39.3	38.7	38.2	37.6	37.0	35.9	34.0	32.3
92.5°	35.9	36.0	36.1	36.2	36.1	36.0	35.9	35.6	34.7	33.0	31.3
95°	37.1	37.4	37.7	38.0	37.7	37.4	37.1	36.9	35.9	34.0	32.3
97.5°	35.9	36.1	36.4	36.7	36.4	36.1	35.9	35.5	35.2	35.1	34.9
100°	35.9	36.1	36.4	36.7	36.4	36.1	35.9	35.5	37.9	42.8	47.8
102.5°	37.6	37.6	37.7	37.8	37.7	37.6	37.6	37.5	64.1	117.5	171.0
105°	404.8	394.3	383.7	373.3	383.7	394.3	404.8	415.3	419.2	416.6	413.9
107.5°	516.9	518.1	519.2	520.3	519.2	518.1	516.9	515.8	514.6	513.4	512.1
110°	581.6	582.5	583.3	584.2	583.3	582.5	581.6	580.7	580.0	579.4	578.9



TEST NUMBER: P332853-840

CATALOG NUMBER: S124DIW-S1195D1340U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	644.8	645.9	647.0	648.1	647.0	645.9	644.8	643.7	643.2	643.3	643.4
115°	741.3	741.3	741.3	741.3	741.3	741.3	741.3	741.3	741.0	740.5	739.9
117.5°	836.6	836.5	836.4	836.2	836.4	836.5	836.6	836.7	836.8	836.9	837.0
120°	897.7	897.1	896.6	896.0	896.6	897.1	897.7	898.3	898.3	897.7	897.1
122.5°	956.3	955.7	955.2	954.6	955.2	955.7	956.3	956.9	957.0	956.7	956.3
125°	1041.8	1042.1	1042.4	1042.7	1042.4	1042.1	1041.8	1041.5	1040.9	1040.1	1039.2
127.5°	1120.6	1120.3	1120.1	1119.9	1120.1	1120.3	1120.6	1120.8	1121.1	1121.3	1121.5
130°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.2	1171.8	1171.5
132.5°	1221.2	1221.0	1220.7	1220.5	1220.7	1221.0	1221.2	1221.4	1221.4	1221.1	1220.8
135°	1291.1	1291.6	1292.2	1292.8	1292.2	1291.6	1291.1	1290.5	1289.9	1289.3	1288.8
137.5°	1355.1	1355.0	1354.8	1354.6	1354.8	1355.0	1355.1	1355.3	1355.1	1354.4	1353.8
140°	1396.7	1397.0	1397.4	1397.7	1397.4	1397.0	1396.7	1396.4	1395.8	1395.0	1394.1
142.5°	1433.1	1433.1	1433.2	1433.2	1433.2	1433.1	1433.1	1433.0	1432.7	1432.0	1431.4
145°	1486.2	1486.8	1487.4	1488.0	1487.4	1486.8	1486.2	1485.7	1485.2	1484.9	1484.6
147.5°	1532.5	1532.8	1533.0	1533.3	1533.0	1532.8	1532.5	1532.2	1531.9	1531.7	1531.5
150°	1561.8	1562.1	1562.4	1562.7	1562.4	1562.1	1561.8	1561.5	1561.4	1561.4	1561.4
152.5°	1588.3	1588.1	1588.0	1587.8	1588.0	1588.1	1588.3	1588.5	1588.3	1587.9	1587.4
155°	1624.3	1623.4	1622.4	1621.6	1622.4	1623.4	1624.3	1625.1	1625.0	1623.8	1622.7
157.5°	1654.5	1652.9	1651.4	1649.9	1651.4	1652.9	1654.5	1656.0	1656.0	1654.5	1652.9
160°	1674.0	1672.2	1670.5	1668.8	1670.5	1672.2	1674.0	1675.8	1675.8	1674.0	1672.2
162.5°	1689.4	1687.4	1685.4	1683.4	1685.4	1687.4	1689.4	1691.3	1691.4	1689.7	1688.0
165°	1712.0	1709.4	1706.8	1704.1	1706.8	1709.4	1712.0	1714.5	1714.8	1712.4	1710.1
167.5°	1728.3	1725.4	1722.5	1719.6	1722.5	1725.4	1728.3	1731.2	1731.4	1728.8	1726.3
170°	1737.8	1734.8	1731.9	1729.0	1731.9	1734.8	1737.8	1740.6	1740.9	1738.6	1736.3
172.5°	1743.6	1740.5	1737.4	1734.2	1737.4	1740.5	1743.6	1746.9	1747.3	1744.9	1742.5
175°	1751.3	1747.8	1744.2	1740.8	1744.2	1747.8	1751.3	1754.7	1755.2	1752.6	1750.0
177.5°	1753.3	1750.6	1747.8	1744.9	1747.8	1750.6	1753.3	1756.2	1756.7	1754.7	1752.9
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3



TEST NUMBER: P332853-840

CATALOG NUMBER: S124DIW-S1195D1340U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1860.6	1863.2	1873.5	1883.2	1894.8	1903.2	1908.9	1915.4	1928.9	1940.0	1950.3
5°	1743.2	1747.3	1768.2	1782.7	1807.7	1829.5	1846.4	1864.9	1886.7	1916.5	1944.0
7.5°	1639.8	1654.9	1677.7	1701.2	1726.8	1755.2	1780.1	1808.1	1845.6	1886.5	1928.8
10°	1581.1	1598.1	1622.2	1649.7	1673.9	1706.9	1737.6	1770.6	1813.3	1863.3	1913.3
12.5°	1522.5	1550.3	1568.7	1601.2	1627.4	1654.7	1687.3	1730.6	1780.5	1833.0	1893.3
15°	1448.9	1464.2	1499.6	1517.4	1554.5	1596.5	1628.7	1672.2	1720.6	1790.0	1857.6
17.5°	1364.1	1384.2	1412.5	1446.3	1488.8	1521.7	1561.8	1606.6	1667.6	1736.5	1821.3
20°	1308.6	1325.5	1360.2	1397.2	1442.5	1477.1	1519.8	1563.4	1626.3	1699.7	1788.4
22.5°	1258.9	1275.3	1311.8	1346.4	1390.2	1432.6	1477.2	1527.9	1588.2	1665.5	1756.1
25°	1182.0	1203.8	1236.1	1271.5	1313.4	1361.8	1410.2	1455.3	1519.8	1601.2	1698.1
27.5°	1113.8	1131.3	1154.6	1194.9	1242.5	1289.3	1337.3	1394.1	1456.0	1542.1	1642.5
30°	1070.0	1086.1	1109.4	1146.5	1190.9	1240.9	1290.9	1345.6	1410.2	1495.7	1598.1
32.5°	1035.1	1047.3	1068.1	1101.4	1141.9	1194.5	1243.7	1300.5	1368.3	1452.5	1552.3
35°	983.7	994.1	1002.2	1033.7	1070.0	1118.3	1168.3	1228.8	1294.1	1373.9	1473.9
37.5°	933.2	936.8	948.6	969.2	1004.3	1048.8	1095.3	1154.8	1221.7	1302.8	1392.9
40°	902.2	903.8	911.1	930.5	961.1	1003.0	1048.1	1107.0	1170.7	1247.3	1336.9
42.5°	871.9	870.9	877.6	891.1	919.8	957.9	1002.4	1056.1	1119.7	1190.5	1274.9
45°	824.0	824.0	822.4	833.7	857.1	894.1	931.3	982.9	1036.1	1105.4	1176.4
47.5°	774.1	769.5	770.9	776.8	796.5	827.0	864.3	906.6	953.5	1012.2	1074.5
50°	741.7	735.4	733.0	739.3	757.1	783.8	819.2	856.3	900.6	952.2	1005.4
52.5°	706.3	699.8	695.5	700.0	716.5	741.1	773.4	806.0	845.8	887.8	933.8
55°	651.5	644.2	641.8	643.4	655.5	674.9	702.3	732.2	761.9	796.6	828.9
57.5°	597.4	585.5	583.3	582.5	590.9	608.5	631.5	657.3	679.0	700.0	734.4
60°	562.0	547.4	542.6	541.8	548.3	562.8	583.7	609.6	624.9	639.3	669.2
62.5°	523.9	510.1	499.4	500.6	506.3	520.2	538.6	557.3	567.4	583.3	603.4
65°	465.2	447.5	439.4	437.0	440.2	451.5	466.1	478.2	489.4	495.8	515.2
67.5°	406.6	391.7	379.8	376.9	375.4	383.1	395.1	402.3	410.4	416.1	427.5
70°	365.3	352.3	337.8	333.0	332.1	338.6	349.9	350.7	362.0	364.5	376.6
72.5°	324.6	308.5	298.5	293.7	290.2	296.1	303.5	305.6	311.7	316.1	322.3
75°	261.3	249.1	239.4	232.2	229.7	233.0	233.0	237.0	241.1	243.5	250.7
77.5°	205.6	191.8	180.3	176.1	173.2	171.1	172.9	175.3	173.4	177.5	179.2
80°	166.9	152.4	143.5	141.9	137.0	133.0	132.2	134.6	131.4	133.0	137.8
82.5°	128.9	119.5	110.0	108.4	102.2	100.2	99.4	97.9	97.9	97.6	98.6
85°	76.5	71.0	64.5	60.5	58.1	54.0	54.0	52.4	50.8	49.2	50.0
87.5°	37.1	35.4	31.7	29.4	27.6	24.5	24.0	21.4	20.1	18.9	17.6
90°	30.6	28.8	26.5	24.1	21.8	19.5	16.8	13.5	10.3	7.2	3.9
92.5°	29.5	27.8	25.4	23.1	20.8	18.5	17.2	17.1	16.9	16.7	16.5
95°	30.6	28.8	28.5	28.3	28.0	27.7	32.4	42.3	52.2	62.1	72.0
97.5°	34.7	34.5	67.1	99.6	132.0	164.5	177.6	171.5	165.3	159.2	153.0
100°	52.7	57.7	97.8	137.9	178.1	218.3	235.8	230.6	225.3	220.0	214.8
102.5°	224.3	277.7	283.0	288.2	293.4	298.6	299.3	295.5	291.6	287.8	284.0
105°	411.3	408.7	407.2	405.8	404.3	402.8	401.2	399.5	397.8	396.0	394.3
107.5°	510.8	509.6	507.6	505.5	503.6	501.6	500.2	499.3	498.5	497.6	496.7
110°	578.2	577.6	575.9	574.1	572.4	570.7	569.4	568.5	567.6	566.7	565.8



TEST NUMBER: P332853-840

CATALOG NUMBER: S124DIW-S1195D1340U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	643.6	643.7	642.9	642.1	641.3	640.4	639.2	637.6	636.1	634.5	632.9
115°	739.3	738.7	739.0	739.3	739.6	739.9	739.6	738.7	737.9	737.0	736.1
117.5°	837.2	837.3	836.6	836.0	835.4	834.7	833.7	832.6	831.4	830.3	829.1
120°	896.6	896.0	896.3	896.6	896.9	897.1	896.7	895.5	894.3	893.1	892.0
122.5°	956.0	955.6	955.2	954.8	954.4	954.0	953.5	952.8	952.1	951.4	950.7
125°	1038.2	1037.4	1037.9	1038.5	1039.2	1039.8	1039.5	1038.2	1037.1	1035.9	1034.8
127.5°	1121.6	1121.8	1120.4	1119.0	1117.7	1116.4	1115.6	1115.3	1115.0	1114.7	1114.4
130°	1171.3	1171.0	1170.1	1169.2	1168.4	1167.5	1166.9	1166.6	1166.4	1166.1	1165.8
132.5°	1220.5	1220.2	1219.1	1218.0	1217.0	1215.9	1215.0	1214.5	1214.0	1213.5	1212.9
135°	1288.2	1287.6	1286.5	1285.3	1284.0	1282.9	1282.5	1282.8	1283.0	1283.3	1283.6
137.5°	1353.2	1352.5	1351.3	1350.0	1348.7	1347.5	1346.8	1346.7	1346.5	1346.4	1346.3
140°	1393.2	1392.4	1391.8	1391.2	1390.6	1390.1	1389.5	1388.9	1388.3	1387.8	1387.2
142.5°	1430.8	1430.1	1429.8	1429.4	1429.1	1428.7	1428.1	1426.9	1425.9	1424.8	1423.8
145°	1484.4	1484.1	1484.1	1484.1	1484.1	1484.1	1483.6	1482.8	1481.9	1481.0	1480.2
147.5°	1531.2	1531.0	1531.3	1531.6	1531.9	1532.2	1531.5	1529.8	1528.2	1526.5	1524.9
150°	1561.4	1561.4	1561.7	1562.0	1562.3	1562.5	1562.1	1560.9	1559.7	1558.6	1557.4
152.5°	1587.0	1586.5	1587.0	1587.5	1588.1	1588.6	1588.4	1587.4	1586.5	1585.6	1584.7
155°	1621.4	1620.3	1621.1	1622.0	1623.0	1623.8	1624.1	1623.8	1623.5	1623.2	1623.0
157.5°	1651.4	1649.9	1650.9	1651.8	1652.8	1653.9	1654.5	1654.6	1654.8	1655.0	1655.2
160°	1670.5	1668.8	1669.0	1669.3	1669.6	1669.9	1670.5	1671.3	1672.2	1673.1	1674.0
162.5°	1686.2	1684.5	1684.8	1685.1	1685.4	1685.7	1686.4	1687.5	1688.6	1689.6	1690.7
165°	1707.8	1705.5	1705.5	1705.5	1705.5	1705.5	1706.2	1707.6	1709.1	1710.5	1712.0
167.5°	1723.7	1721.1	1721.3	1721.5	1721.7	1721.8	1722.7	1724.2	1725.8	1727.3	1728.8
170°	1733.9	1731.6	1731.3	1731.0	1730.7	1730.5	1731.2	1732.9	1734.6	1736.5	1738.2
172.5°	1740.2	1737.9	1737.6	1737.4	1737.1	1736.8	1737.5	1739.2	1741.0	1742.7	1744.4
175°	1747.4	1744.7	1744.4	1744.1	1743.8	1743.5	1744.2	1746.1	1747.8	1749.5	1751.3
177.5°	1751.0	1749.2	1748.7	1748.3	1747.8	1747.3	1747.9	1749.5	1751.1	1752.8	1754.4
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3



TEST NUMBER: P332853-840

CATALOG NUMBER: S124DIW-S1195D1340U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1959.2	1965.7	1974.1	1988.3	1993.5	1999.9	2008.9	2008.3	2010.8	2020.5	2041.2
5°	1966.5	1991.6	2015.7	2044.8	2075.4	2095.6	2122.9	2139.9	2156.9	2178.6	2215.6
7.5°	1969.4	2009.1	2053.5	2104.5	2149.7	2202.0	2242.8	2281.2	2315.8	2361.8	2406.0
10°	1964.9	2018.1	2075.4	2139.9	2208.4	2266.4	2318.9	2378.5	2429.3	2485.0	2535.0
12.5°	1956.5	2020.7	2097.3	2169.6	2249.7	2335.5	2400.9	2461.1	2528.7	2592.7	2669.8
15°	1937.5	2025.4	2114.9	2210.0	2317.2	2416.4	2510.8	2589.0	2661.6	2757.5	2858.3
17.5°	1913.3	2008.1	2121.0	2236.1	2348.2	2461.6	2578.4	2695.9	2787.5	2906.7	2985.6
20°	1890.8	2000.4	2116.5	2253.6	2365.6	2506.8	2622.8	2736.5	2862.4	2980.8	3075.1
22.5°	1859.2	1979.1	2102.3	2238.8	2386.3	2527.4	2661.6	2784.9	2910.7	3039.6	3153.9
25°	1819.0	1927.8	2073.8	2228.6	2375.3	2528.5	2682.5	2837.3	2972.7	3109.1	3215.5
27.5°	1750.6	1888.0	2024.0	2183.7	2346.8	2520.1	2684.8	2846.8	2988.8	3100.8	3166.7
30°	1715.8	1835.1	1982.7	2143.1	2319.7	2506.0	2677.7	2836.5	2968.8	3058.3	3084.8
32.5°	1664.2	1787.4	1931.7	2098.0	2284.8	2476.3	2655.1	2804.9	2915.2	2962.1	2930.0
35°	1587.6	1698.9	1844.8	2014.9	2209.2	2413.2	2589.8	2716.3	2772.8	2728.5	2618.0
37.5°	1495.7	1606.0	1752.5	1919.7	2120.7	2328.0	2487.7	2578.8	2560.1	2449.8	2285.2
40°	1431.2	1534.4	1673.9	1854.4	2050.4	2258.5	2398.7	2447.9	2396.3	2238.3	2063.3
42.5°	1359.6	1460.2	1600.3	1774.4	1982.1	2173.9	2296.1	2300.2	2213.7	2024.8	1849.2
45°	1250.5	1346.5	1478.7	1660.1	1852.1	2032.7	2113.2	2073.8	1914.1	1731.9	1555.3
47.5°	1143.0	1226.2	1356.5	1528.7	1710.9	1863.0	1903.0	1831.9	1661.7	1484.9	1321.2
50°	1064.3	1148.1	1270.7	1435.2	1610.9	1742.4	1761.7	1667.4	1500.5	1322.3	1194.1
52.5°	988.9	1072.1	1190.1	1342.3	1503.3	1621.7	1622.4	1513.3	1347.0	1188.1	1068.9
55°	878.1	953.0	1059.4	1195.7	1339.3	1432.0	1409.4	1296.5	1152.2	1014.3	910.3
57.5°	771.3	836.6	934.6	1048.3	1174.8	1251.2	1213.8	1105.1	976.2	859.3	780.5
60°	702.3	764.4	848.2	955.4	1061.9	1121.6	1086.1	987.7	869.2	774.9	706.3
62.5°	635.2	687.6	768.2	861.3	960.0	1004.1	972.5	875.5	773.1	687.7	632.2
65°	540.2	583.0	647.4	727.3	799.0	837.0	810.3	720.0	641.8	580.6	536.1
67.5°	451.5	484.9	533.7	597.7	658.7	679.2	655.0	592.2	525.8	476.9	445.6
70°	390.2	421.7	462.8	512.0	565.2	586.9	562.8	512.8	458.8	413.6	382.9
72.5°	336.7	361.0	395.8	437.8	479.4	501.2	484.7	436.7	391.0	357.5	331.3
75°	256.4	277.4	301.5	331.3	363.7	378.2	363.7	330.5	299.1	274.2	255.6
77.5°	186.4	197.7	216.4	238.6	258.8	269.9	257.4	235.0	215.8	198.6	189.5
80°	141.9	150.0	162.9	180.6	194.3	204.8	196.7	178.1	162.9	151.6	147.5
82.5°	103.2	108.7	117.0	130.3	139.5	144.8	141.3	127.8	121.6	111.6	107.6
85°	50.8	54.0	59.7	63.7	71.8	72.6	73.4	67.8	62.1	59.7	56.5
87.5°	18.9	20.1	22.7	25.2	28.4	29.5	29.4	29.8	27.7	27.4	25.1
90°	7.2	10.3	13.5	16.8	19.5	21.8	24.1	26.5	28.8	30.6	32.3
92.5°	16.7	16.9	17.1	17.2	18.5	20.8	23.1	25.4	27.8	29.5	31.3
95°	62.1	52.2	42.3	32.4	27.7	28.0	28.3	28.5	28.8	30.6	32.3
97.5°	159.2	165.3	171.5	177.6	164.5	132.0	99.6	67.1	34.5	34.7	34.9
100°	220.0	225.3	230.6	235.8	218.3	178.1	137.9	97.8	57.7	52.7	47.8
102.5°	287.8	291.6	295.5	299.3	298.6	293.4	288.2	283.0	277.7	224.3	171.0
105°	396.0	397.8	399.5	401.2	402.8	404.3	405.8	407.2	408.7	411.3	413.9
107.5°	497.6	498.5	499.3	500.2	501.6	503.6	505.5	507.6	509.6	510.8	512.1
110°	566.7	567.6	568.5	569.4	570.7	572.4	574.1	575.9	577.6	578.2	578.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	634.5	636.1	637.6	639.2	640.4	641.3	642.1	642.9	643.7	643.6	643.4
115°	737.0	737.9	738.7	739.6	739.9	739.6	739.3	739.0	738.7	739.3	739.9
117.5°	830.3	831.4	832.6	833.7	834.7	835.4	836.0	836.6	837.3	837.2	837.0
120°	893.1	894.3	895.5	896.7	897.1	896.9	896.6	896.3	896.0	896.6	897.1
122.5°	951.4	952.1	952.8	953.5	954.0	954.4	954.8	955.2	955.6	956.0	956.3
125°	1035.9	1037.1	1038.2	1039.5	1039.8	1039.2	1038.5	1037.9	1037.4	1038.2	1039.2
127.5°	1114.7	1115.0	1115.3	1115.6	1116.4	1117.7	1119.0	1120.4	1121.8	1121.6	1121.5
130°	1166.1	1166.4	1166.6	1166.9	1167.5	1168.4	1169.2	1170.1	1171.0	1171.3	1171.5
132.5°	1213.5	1214.0	1214.5	1215.0	1215.9	1217.0	1218.0	1219.1	1220.2	1220.5	1220.8
135°	1283.3	1283.0	1282.8	1282.5	1282.9	1284.0	1285.3	1286.5	1287.6	1288.2	1288.8
137.5°	1346.4	1346.5	1346.7	1346.8	1347.5	1348.7	1350.0	1351.3	1352.5	1353.2	1353.8
140°	1387.8	1388.3	1388.9	1389.5	1390.1	1390.6	1391.2	1391.8	1392.4	1393.2	1394.1
142.5°	1424.8	1425.9	1426.9	1428.1	1428.7	1429.1	1429.4	1429.8	1430.1	1430.8	1431.4
145°	1481.0	1481.9	1482.8	1483.6	1484.1	1484.1	1484.1	1484.1	1484.1	1484.4	1484.6
147.5°	1526.5	1528.2	1529.8	1531.5	1532.2	1531.9	1531.6	1531.3	1531.0	1531.2	1531.5
150°	1558.6	1559.7	1560.9	1562.1	1562.5	1562.3	1562.0	1561.7	1561.4	1561.4	1561.4
152.5°	1585.6	1586.5	1587.4	1588.4	1588.6	1588.1	1587.5	1587.0	1586.5	1587.0	1587.4
155°	1623.2	1623.5	1623.8	1624.1	1623.8	1623.0	1622.0	1621.1	1620.3	1621.4	1622.7
157.5°	1655.0	1654.8	1654.6	1654.5	1653.9	1652.8	1651.8	1650.9	1649.9	1651.4	1652.9
160°	1673.1	1672.2	1671.3	1670.5	1669.9	1669.6	1669.3	1669.0	1668.8	1670.5	1672.2
162.5°	1689.6	1688.6	1687.5	1686.4	1685.7	1685.4	1685.1	1684.8	1684.5	1686.2	1688.0
165°	1710.5	1709.1	1707.6	1706.2	1705.5	1705.5	1705.5	1705.5	1705.5	1707.8	1710.1
167.5°	1727.3	1725.8	1724.2	1722.7	1721.8	1721.7	1721.5	1721.3	1721.1	1723.7	1726.3
170°	1736.5	1734.6	1732.9	1731.2	1730.5	1730.7	1731.0	1731.3	1731.6	1733.9	1736.3
172.5°	1742.7	1741.0	1739.2	1737.5	1736.8	1737.1	1737.4	1737.6	1737.9	1740.2	1742.5
175°	1749.5	1747.8	1746.1	1744.2	1743.5	1743.8	1744.1	1744.4	1744.7	1747.4	1750.0
177.5°	1752.8	1751.1	1749.5	1747.9	1747.3	1747.8	1748.3	1748.7	1749.2	1751.0	1752.9
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2051.5	2052.9	2058.6	2063.2	2064.5	2070.8	2071.5
5°	2231.8	2245.5	2272.1	2274.5	2278.6	2299.6	2283.4
7.5°	2443.1	2477.9	2501.1	2521.6	2529.0	2538.2	2536.3
10°	2578.5	2630.1	2655.9	2697.0	2698.7	2709.2	2702.7
12.5°	2714.6	2774.6	2821.7	2829.2	2863.8	2869.1	2878.1
15°	2907.5	2971.1	3036.5	3059.9	3107.5	3118.8	3136.4
17.5°	3088.8	3153.9	3199.7	3260.1	3279.6	3305.8	3288.0
20°	3188.0	3259.0	3317.1	3364.7	3384.8	3399.3	3397.7
22.5°	3248.0	3319.6	3366.7	3402.7	3421.5	3427.7	3427.4
25°	3285.6	3326.7	3341.2	3355.0	3334.0	3326.7	3329.9
27.5°	3181.2	3170.5	3132.6	3082.9	3031.3	2990.3	2968.1
30°	3037.3	2974.4	2917.2	2817.1	2765.6	2734.9	2707.5
32.5°	2833.5	2733.8	2623.6	2532.0	2473.4	2427.9	2421.2
35°	2484.2	2334.2	2199.6	2087.5	2029.4	1980.2	1968.9
37.5°	2112.0	1956.2	1834.9	1736.3	1673.9	1639.2	1606.8
40°	1864.9	1731.1	1611.7	1527.9	1480.4	1455.3	1435.2
42.5°	1674.7	1552.5	1433.7	1369.9	1326.9	1311.5	1299.7
45°	1411.8	1298.1	1215.9	1167.5	1142.5	1116.7	1104.6
47.5°	1201.3	1108.8	1054.6	1013.5	986.7	971.4	963.7
50°	1082.1	1006.2	957.9	926.5	902.2	890.1	883.7
52.5°	976.2	914.0	873.3	848.4	831.9	823.0	820.5
55°	840.9	793.3	767.6	745.8	733.8	725.7	722.5
57.5°	730.9	694.4	673.4	655.5	650.9	644.1	641.8
60°	658.7	630.6	612.8	600.7	596.6	588.5	590.2
62.5°	594.9	571.8	556.6	549.8	544.4	537.7	539.9
65°	503.1	486.1	478.2	471.7	465.2	461.2	464.4
67.5°	422.1	410.6	399.6	395.9	392.6	392.0	388.6
70°	369.3	359.6	349.9	347.5	347.5	344.3	343.5
72.5°	318.3	311.2	304.8	303.0	300.4	301.7	298.3
75°	245.9	240.2	237.8	235.4	234.6	234.6	232.2
77.5°	181.8	177.5	173.7	173.7	170.8	169.7	169.4
80°	137.8	136.2	133.0	133.0	131.4	132.2	130.6
82.5°	103.7	101.4	100.8	99.5	97.3	97.4	95.8
85°	55.6	53.2	52.4	50.0	48.4	50.0	48.4
87.5°	26.2	25.9	25.4	24.2	23.7	23.8	22.0
90°	34.0	35.9	37.0	37.6	38.2	38.7	39.3
92.5°	33.0	34.7	35.6	35.9	36.0	36.1	36.2
95°	34.0	35.9	36.9	37.1	37.4	37.7	38.0
97.5°	35.1	35.2	35.5	35.9	36.1	36.4	36.7
100°	42.8	37.9	35.5	35.9	36.1	36.4	36.7
102.5°	117.5	64.1	37.5	37.6	37.6	37.7	37.8
105°	416.6	419.2	415.3	404.8	394.3	383.7	373.3
107.5°	513.4	514.6	515.8	516.9	518.1	519.2	520.3
110°	579.4	580.0	580.7	581.6	582.5	583.3	584.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	643.3	643.2	643.7	644.8	645.9	647.0	648.1
115°	740.5	741.0	741.3	741.3	741.3	741.3	741.3
117.5°	836.9	836.8	836.7	836.6	836.5	836.4	836.2
120°	897.7	898.3	898.3	897.7	897.1	896.6	896.0
122.5°	956.7	957.0	956.9	956.3	955.7	955.2	954.6
125°	1040.1	1040.9	1041.5	1041.8	1042.1	1042.4	1042.7
127.5°	1121.3	1121.1	1120.8	1120.6	1120.3	1120.1	1119.9
130°	1171.8	1172.2	1172.4	1172.4	1172.4	1172.4	1172.4
132.5°	1221.1	1221.4	1221.4	1221.2	1221.0	1220.7	1220.5
135°	1289.3	1289.9	1290.5	1291.1	1291.6	1292.2	1292.8
137.5°	1354.4	1355.1	1355.3	1355.1	1355.0	1354.8	1354.6
140°	1395.0	1395.8	1396.4	1396.7	1397.0	1397.4	1397.7
142.5°	1432.0	1432.7	1433.0	1433.1	1433.1	1433.2	1433.2
145°	1484.9	1485.2	1485.7	1486.2	1486.8	1487.4	1488.0
147.5°	1531.7	1531.9	1532.2	1532.5	1532.8	1533.0	1533.3
150°	1561.4	1561.4	1561.5	1561.8	1562.1	1562.4	1562.7
152.5°	1587.9	1588.3	1588.5	1588.3	1588.1	1588.0	1587.8
155°	1623.8	1625.0	1625.1	1624.3	1623.4	1622.4	1621.6
157.5°	1654.5	1656.0	1656.0	1654.5	1652.9	1651.4	1649.9
160°	1674.0	1675.8	1675.8	1674.0	1672.2	1670.5	1668.8
162.5°	1689.7	1691.4	1691.3	1689.4	1687.4	1685.4	1683.4
165°	1712.4	1714.8	1714.5	1712.0	1709.4	1706.8	1704.1
167.5°	1728.8	1731.4	1731.2	1728.3	1725.4	1722.5	1719.6
170°	1738.6	1740.9	1740.6	1737.8	1734.8	1731.9	1729.0
172.5°	1744.9	1747.3	1746.9	1743.6	1740.5	1737.4	1734.2
175°	1752.6	1755.2	1754.7	1751.3	1747.8	1744.2	1740.8
177.5°	1754.7	1756.7	1756.2	1753.3	1750.6	1747.8	1744.9
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3

(END OF REPORT)