

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: P332038-830

Luminaire Tested: **S123DIP-S1000D1195U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332038-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1000D1195U830-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8069.8 lumens  
Efficiency: N/A  
Efficacy: 123.4 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

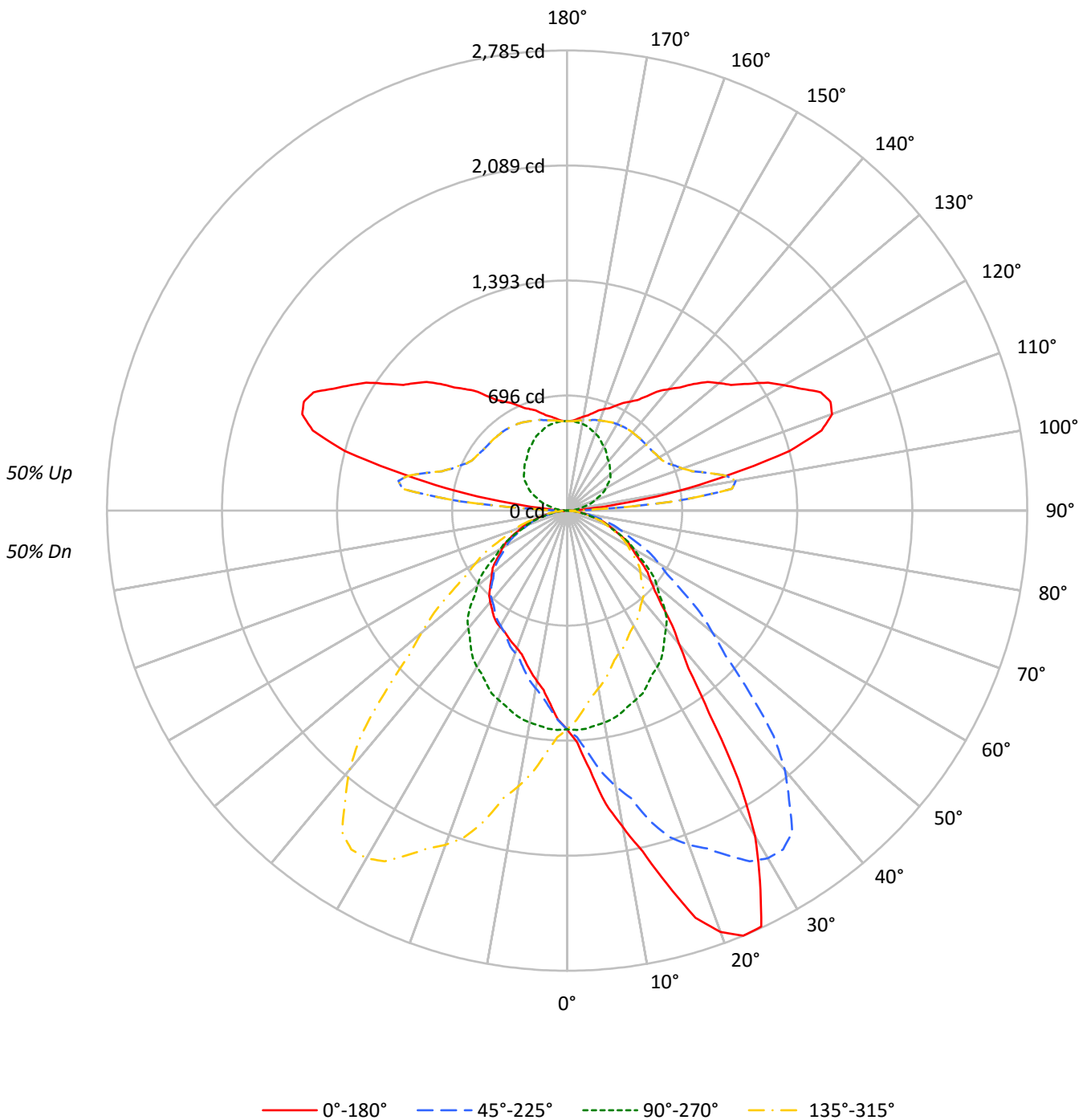
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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									50																			
1	98	94	90	87	90	87	83	80	73	71	69	61	59	58	50	49	48	42									42																			
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36									36																			
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31									31																			
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	26									26																			
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23									23																			
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20									20																			
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18									18																			
8	54	42	34	29	50	39	32	28	34	28	25	29	25	22	24	21	19	16									16																			
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15									15																			
10	47	35	28	23	44	33	27	22	29	23	20	25	20	17	21	17	15	13									13																			

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

	0°	90°	180°	270°
0°	14249	14249	14249	14249
5°	16993	14311	12682	14311
10°	21270	14238	11455	14238
15°	26088	14123	10664	14123
20°	31078	13945	10153	13945
25°	32999	13726	10041	13726
30°	28285	13569	10092	13569
35°	19671	13341	10198	13341
40°	14816	13078	10166	13078
45°	12301	12683	10036	12683
50°	11020	11879	9945	11879
55°	10303	11012	9822	11012
60°	9664	10107	9722	10107
65°	9085	9212	9411	9212
70°	8519	8195	8960	8195
75°	7627	7178	8218	7178
80°	6676	5883	7073	5883
85°	5224	4273	4755	4273



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.4	1.6
10°-20°	418.2	5.2
20°-30°	701.8	8.7
30°-40°	794.6	9.8
40°-50°	712.6	8.8
50°-60°	575.1	7.1
60°-70°	400.7	5.0
70°-80°	210.6	2.6
80°-90°	55.7	0.7
90°-100°	301.1	3.7
100°-110°	852.5	10.6
110°-120°	838.6	10.4
120°-130°	668.9	8.3
130°-140°	527.4	6.5
140°-150°	393.6	4.9
150°-160°	274.4	3.4
160°-170°	161.2	2.0
170°-180°	52.4	0.6
0°-30°	1250.4	15.5
0°-40°	2045.0	25.3
0°-60°	3332.7	41.3
0°-90°	3999.8	49.6
90°-120°	1992.1	24.7
90°-150°	3582.0	44.4
90°-180°	4070.0	50.4
0°-180°	8069.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1324	1324	1324	1324	1324	
5°	1573	1324	1174	1324	1573	163
15°	2341	1267	957	1267	2341	676
25°	2778	1156	845	1156	2778	1219
35°	1497	1015	776	1015	1497	973
45°	808	833	659	833	808	640
55°	549	587	523	587	549	493
65°	357	362	370	362	357	355
75°	183	173	198	173	183	196
85°	42	35	38	35	42	51
90°	32	2	32	2	32	19
95°	127	37	127	37	127	229
105°	1393	127	1393	127	1393	1374
115°	1694	224	1694	224	1694	1646
125°	1336	312	1336	312	1336	1211
135°	1083	366	1083	366	1083	840
145°	846	417	846	417	846	538
155°	702	474	702	474	702	327
165°	612	518	612	518	612	175
175°	551	540	551	540	551	54
180°	541	541	541	541	541	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1404.9	1403.9	1401.3	1403.4	1399.3	1393.6	1393.1	1388.0	1373.1	1372.1	1368.0
5°	1572.7	1567.5	1566.9	1566.3	1557.3	1545.1	1522.0	1520.1	1489.3	1473.9	1455.3
7.5°	1790.0	1792.7	1783.3	1775.1	1747.7	1729.6	1704.8	1673.1	1635.3	1596.9	1571.4
10°	1946.0	1967.2	1940.9	1922.9	1906.2	1874.8	1838.2	1792.7	1747.2	1693.9	1653.5
12.5°	2113.3	2123.6	2118.4	2101.5	2075.6	2027.7	1962.9	1912.8	1870.9	1782.2	1746.3
15°	2341.1	2380.2	2355.2	2297.4	2298.8	2253.2	2168.5	2075.6	2026.2	1948.5	1842.8
17.5°	2583.8	2588.7	2578.0	2529.9	2497.8	2435.2	2357.1	2267.9	2167.9	2074.0	1961.8
20°	2713.1	2709.2	2686.8	2661.7	2606.6	2557.9	2472.6	2373.1	2244.9	2152.5	2030.0
22.5°	2784.9	2778.5	2767.9	2746.9	2701.0	2648.7	2572.1	2463.4	2341.4	2214.1	2072.6
25°	2778.5	2786.8	2788.1	2782.4	2766.4	2734.9	2674.6	2588.0	2466.2	2302.6	2155.1
27.5°	2527.1	2538.9	2573.1	2603.6	2637.5	2672.2	2667.6	2624.6	2534.4	2393.1	2212.8
30°	2275.7	2250.0	2313.5	2393.7	2448.2	2544.4	2598.3	2601.5	2550.8	2429.6	2253.8
32.5°	1926.7	1954.9	1983.0	2081.7	2200.8	2308.9	2416.1	2502.5	2512.3	2431.7	2277.9
35°	1497.0	1532.3	1583.6	1634.9	1763.2	1873.5	2062.1	2226.3	2357.1	2374.5	2280.1
37.5°	1206.4	1223.8	1256.2	1307.7	1391.6	1522.4	1668.3	1875.8	2065.4	2206.4	2212.5
40°	1054.4	1059.6	1096.2	1135.3	1203.2	1311.0	1442.5	1625.9	1852.9	2049.9	2132.0
42.5°	940.6	951.8	967.3	1004.9	1059.0	1140.1	1262.3	1414.0	1622.1	1848.7	2009.3
45°	808.1	821.0	830.6	855.6	894.1	948.6	1034.0	1172.4	1330.9	1565.0	1781.1
47.5°	720.7	721.7	728.9	747.7	773.9	814.8	875.2	964.1	1109.6	1299.5	1521.4
50°	658.1	668.4	670.9	685.6	706.2	736.3	786.4	862.0	981.4	1148.1	1352.1
52.5°	614.0	617.0	624.2	634.9	652.8	676.3	719.6	778.9	872.5	1014.6	1202.2
55°	549.0	549.0	556.1	564.4	574.7	595.9	624.7	668.4	739.5	849.9	1005.0
57.5°	489.0	492.2	497.2	499.7	508.5	522.5	546.6	579.7	632.8	717.7	841.1
60°	448.9	454.8	454.1	459.2	466.9	477.9	498.3	525.3	572.8	640.7	744.7
62.5°	414.1	413.7	413.6	419.7	427.4	437.8	451.2	474.5	514.8	575.0	663.5
65°	356.7	355.3	359.9	363.6	366.3	373.9	384.2	404.7	431.7	476.5	545.2
67.5°	305.6	301.8	304.3	305.6	309.9	315.9	325.6	338.3	359.7	395.8	447.4
70°	270.7	267.5	266.8	268.1	271.9	276.4	283.5	295.7	315.6	344.4	382.3
72.5°	234.8	232.5	232.4	235.3	237.0	240.0	245.0	256.2	271.9	293.6	328.9
75°	183.4	183.4	183.4	184.1	186.0	188.6	192.4	198.2	210.4	225.7	249.5
77.5°	137.5	137.4	136.6	136.5	139.3	140.4	141.4	146.8	153.5	163.9	181.3
80°	107.7	104.5	105.8	107.7	109.1	109.7	111.6	112.9	118.7	124.4	136.6
82.5°	80.0	77.4	77.6	80.6	80.8	81.4	83.4	85.2	87.4	92.7	99.2
85°	42.3	42.3	43.0	43.0	43.6	43.0	44.9	45.5	45.5	48.7	52.6
87.5°	21.8	20.9	21.2	21.5	21.2	21.3	21.6	21.9	22.1	22.9	22.8
90°	31.8	32.9	31.8	30.6	31.8	29.6	28.5	27.3	26.3	27.3	24.1
92.5°	52.8	54.8	53.6	56.9	58.9	64.6	73.1	92.2	127.1	168.4	185.3
95°	127.1	131.4	139.1	148.9	169.8	209.2	267.2	394.3	526.7	649.4	578.2
97.5°	345.8	355.2	384.8	434.1	514.9	645.9	787.1	982.7	1076.7	1006.4	736.8
100°	686.6	685.5	728.2	808.1	918.8	1074.3	1202.4	1291.1	1252.8	1037.1	700.9
102.5°	1007.3	1032.5	1068.2	1131.4	1217.5	1316.1	1390.7	1393.6	1261.5	980.1	648.3
105°	1393.0	1398.5	1433.5	1475.1	1525.5	1554.0	1533.1	1423.6	1194.8	880.4	583.7
107.5°	1615.0	1625.1	1636.9	1651.0	1650.1	1611.1	1515.1	1337.3	1077.8	792.4	542.5
110°	1706.2	1708.4	1710.5	1701.8	1671.1	1594.5	1456.5	1255.0	1004.2	742.4	526.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1724.6	1724.1	1715.8	1688.7	1632.6	1534.0	1379.4	1173.5	940.3	709.2	518.0
115°	1694.1	1688.7	1666.7	1618.5	1536.4	1417.0	1256.0	1065.5	862.9	673.4	514.7
117.5°	1597.3	1589.9	1558.3	1503.2	1417.5	1296.4	1151.8	987.3	816.2	652.4	516.7
120°	1516.7	1510.1	1483.8	1422.5	1336.1	1225.4	1094.0	946.1	791.7	642.8	520.2
122.5°	1441.3	1433.0	1404.1	1349.0	1272.1	1169.3	1047.5	913.7	771.6	636.7	526.3
125°	1336.1	1328.3	1301.0	1252.8	1182.7	1095.0	990.0	870.6	745.7	628.6	535.5
127.5°	1249.2	1242.3	1217.5	1176.4	1113.9	1034.2	939.3	832.9	723.0	624.6	546.0
130°	1200.2	1191.5	1168.5	1129.1	1071.0	996.6	907.9	809.3	710.7	622.0	553.0
132.5°	1152.1	1145.9	1125.5	1086.1	1031.6	960.6	878.1	787.4	699.4	621.1	558.3
135°	1083.1	1075.3	1055.6	1022.8	969.1	906.7	835.6	757.8	684.5	619.8	566.2
137.5°	1010.1	1005.0	988.4	955.2	910.0	855.9	794.6	730.8	671.5	617.4	571.5
140°	959.3	960.4	942.9	912.2	870.6	823.5	770.9	715.1	663.6	616.5	575.0
142.5°	912.0	913.0	897.3	870.2	834.7	793.7	748.2	700.2	656.6	614.8	577.6
145°	846.5	844.3	835.6	812.6	785.1	753.5	718.4	682.2	647.2	612.2	579.3
147.5°	792.6	791.7	783.4	767.9	747.1	724.5	696.3	667.6	638.0	608.0	579.3
150°	761.1	761.1	754.5	742.4	726.0	705.2	682.2	657.0	631.9	604.5	579.3
152.5°	734.8	734.8	730.8	719.7	706.8	689.5	669.1	647.4	624.9	600.1	576.6
155°	701.9	700.9	698.7	689.9	680.0	666.9	650.4	632.9	614.3	592.5	573.8
157.5°	671.9	672.1	670.4	663.8	655.3	645.0	632.4	617.6	602.5	585.7	570.1
160°	652.7	653.7	653.7	647.2	639.5	631.9	620.9	608.9	594.7	580.4	568.4
162.5°	635.2	636.2	636.2	630.6	625.5	618.7	608.7	598.3	586.7	575.1	564.9
165°	612.2	612.2	613.2	608.9	604.5	599.0	591.4	584.8	576.0	567.2	559.6
167.5°	590.2	590.2	591.4	588.2	586.4	582.4	578.0	573.0	565.7	559.4	554.3
170°	577.1	577.1	578.2	576.0	575.0	572.7	568.4	565.1	559.6	554.1	550.8
172.5°	564.9	565.7	567.7	565.5	565.2	564.0	560.4	558.1	553.5	549.7	548.2
175°	550.8	552.0	553.0	552.0	552.0	552.0	549.7	548.7	546.5	544.2	544.2
177.5°	542.7	542.7	544.5	543.6	544.5	544.5	543.6	542.7	541.9	541.0	541.9
180°	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1364.9	1360.7	1356.7	1349.5	1343.3	1334.6	1332.0	1329.0	1319.7	1311.5	1305.3
5°	1448.2	1432.9	1410.4	1389.9	1373.2	1350.8	1337.9	1324.5	1305.2	1287.9	1273.8
7.5°	1535.5	1505.2	1470.4	1432.6	1397.5	1363.6	1336.2	1311.9	1285.0	1259.4	1239.5
10°	1604.8	1561.1	1512.4	1459.8	1414.9	1371.3	1334.7	1302.7	1268.0	1237.8	1212.9
12.5°	1683.8	1619.1	1551.9	1488.0	1434.9	1374.4	1330.1	1289.3	1250.1	1213.8	1185.7
15°	1777.3	1695.2	1615.7	1527.8	1447.0	1371.3	1318.7	1267.4	1221.8	1184.7	1148.8
17.5°	1862.5	1769.4	1664.6	1557.8	1460.3	1370.6	1296.9	1238.9	1181.9	1136.4	1100.6
20°	1910.7	1804.9	1686.2	1575.3	1467.5	1367.4	1286.7	1217.4	1155.7	1107.7	1067.2
22.5°	1952.3	1828.4	1705.7	1587.1	1467.0	1359.2	1267.6	1196.4	1129.6	1082.5	1039.5
25°	1995.4	1847.2	1724.1	1584.9	1450.9	1339.3	1236.6	1155.7	1089.1	1034.0	989.7
27.5°	2032.3	1846.0	1699.8	1550.1	1425.4	1313.5	1204.0	1117.3	1046.5	986.6	941.7
30°	2056.9	1848.5	1674.7	1526.5	1400.8	1285.3	1178.8	1091.7	1017.3	956.3	914.0
32.5°	2072.4	1846.9	1651.6	1493.6	1361.8	1259.7	1151.7	1061.4	985.0	925.0	884.2
35°	2081.3	1835.7	1611.8	1425.8	1298.8	1199.4	1109.0	1015.3	935.2	879.4	833.2
37.5°	2063.3	1811.9	1565.7	1360.4	1221.3	1123.4	1047.4	967.6	890.9	829.4	789.7
40°	2035.1	1796.6	1529.7	1314.2	1168.0	1073.7	1008.9	930.7	855.0	796.6	759.4
42.5°	1981.2	1765.2	1490.3	1262.9	1112.6	1018.2	958.7	893.2	821.6	766.9	729.6
45°	1849.7	1697.1	1431.0	1185.9	1030.7	933.2	880.6	833.2	768.4	715.1	683.1
47.5°	1667.4	1594.6	1345.3	1104.8	945.3	851.5	796.8	758.7	711.3	668.4	637.5
50°	1540.6	1510.5	1287.2	1049.3	888.3	796.6	744.0	709.4	675.4	632.4	604.2
52.5°	1394.4	1413.0	1219.6	991.8	830.4	740.2	690.7	663.2	632.3	597.0	572.4
55°	1188.5	1255.8	1102.6	895.4	744.0	658.1	611.2	586.8	568.9	542.6	521.4
57.5°	995.7	1081.4	976.1	796.0	659.2	585.0	540.2	513.6	502.1	488.3	471.6
60°	881.3	965.9	885.8	729.2	602.3	531.7	491.9	469.5	458.0	448.4	434.2
62.5°	779.2	864.9	797.5	661.6	546.3	480.9	446.3	424.3	415.4	410.4	398.3
65°	638.9	712.6	667.7	556.1	466.3	408.6	377.1	361.7	353.5	351.5	343.7
67.5°	519.9	576.1	543.4	461.3	390.6	340.7	314.1	301.0	294.5	293.9	288.1
70°	442.0	494.6	469.5	395.1	334.1	295.0	271.9	260.4	256.6	255.9	252.7
72.5°	381.4	418.0	398.1	336.1	289.0	253.4	236.6	224.5	220.1	221.0	218.9
75°	282.2	309.8	298.2	255.2	217.4	194.4	180.2	172.6	168.7	170.6	168.1
77.5°	203.0	220.6	210.1	180.4	157.0	140.3	130.0	125.2	121.8	121.6	120.5
80°	153.3	163.5	157.8	139.8	120.6	106.5	98.1	94.9	93.0	92.4	91.7
82.5°	109.1	117.9	111.1	98.8	85.7	77.2	72.5	68.2	66.8	67.2	66.5
85°	55.1	58.3	55.8	48.1	43.0	39.1	36.6	34.6	33.4	34.0	32.7
87.5°	23.2	23.0	20.8	18.3	16.9	14.6	14.2	12.7	12.2	12.6	12.7
90°	20.8	17.5	14.2	12.1	9.9	6.6	4.3	2.2	4.3	6.6	9.9
92.5°	139.1	92.0	63.3	47.1	37.9	29.3	20.2	13.6	20.2	29.3	37.9
95°	398.6	235.4	142.3	99.6	71.2	52.6	40.5	37.2	40.5	52.6	71.2
97.5°	437.3	253.4	164.5	118.3	90.2	74.0	64.6	63.5	64.6	74.0	90.2
100°	412.8	250.8	174.1	131.4	105.1	89.8	82.1	81.1	82.1	89.8	105.1
102.5°	391.8	254.3	185.5	146.3	122.6	108.2	101.4	99.4	101.4	108.2	122.6
105°	376.7	263.9	204.8	170.8	150.1	136.9	130.4	127.1	130.4	136.9	150.1
107.5°	375.6	281.9	230.0	198.4	178.9	166.0	159.7	156.4	159.7	166.0	178.9
110°	380.0	296.8	247.5	216.8	198.2	186.2	180.7	177.4	180.7	186.2	198.2





TEST NUMBER: P332038-830

CATALOG NUMBER: S123DIP-S1000D1195U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	388.8	311.7	265.9	236.1	217.4	205.5	200.0	196.7	200.0	205.5	217.4
115°	403.0	336.2	294.5	265.0	246.4	235.4	228.8	224.5	228.8	235.4	246.4
117.5°	421.8	362.2	321.1	293.7	272.9	262.8	257.3	252.3	257.3	262.8	272.9
120°	435.8	378.9	339.5	312.1	291.3	280.3	274.8	271.5	274.8	280.3	291.3
122.5°	449.0	396.4	357.9	328.8	308.8	297.0	291.5	288.2	291.5	297.0	308.8
125°	469.8	421.6	383.2	353.7	332.9	320.8	314.3	312.1	314.3	320.8	332.9
127.5°	486.9	443.5	406.5	376.9	353.9	341.7	333.6	330.3	333.6	341.7	353.9
130°	498.2	456.7	420.5	391.0	368.0	354.8	345.0	341.7	345.0	354.8	368.0
132.5°	508.8	468.1	432.8	404.1	381.1	365.3	354.6	350.4	354.6	365.3	381.1
135°	522.4	485.1	451.2	421.6	398.6	382.2	370.1	365.8	370.1	382.2	398.6
137.5°	532.4	496.9	464.3	437.0	414.2	396.6	384.8	380.2	384.8	396.6	414.2
140°	537.7	504.8	473.1	445.7	423.8	406.2	395.3	389.8	395.3	406.2	423.8
142.5°	542.9	511.0	480.1	454.5	432.5	416.8	405.0	400.4	405.0	416.8	432.5
145°	548.7	519.1	490.6	465.4	446.8	430.4	420.5	417.3	420.5	430.4	446.8
147.5°	552.1	525.7	499.5	478.2	460.1	445.9	436.3	434.3	436.3	445.9	460.1
150°	553.0	530.0	504.8	485.1	469.8	455.5	446.8	445.7	446.8	455.5	469.8
152.5°	554.8	532.6	511.0	492.1	478.5	466.1	457.3	457.1	457.3	466.1	478.5
155°	555.3	537.7	519.1	503.7	491.7	480.8	474.2	474.2	474.2	480.8	491.7
157.5°	556.3	540.5	525.7	513.8	503.5	493.9	488.6	487.8	488.6	493.9	503.5
160°	556.3	543.2	530.0	519.1	511.4	502.7	498.2	498.2	498.2	502.7	511.4
162.5°	555.4	544.0	532.6	523.5	516.7	509.6	506.1	506.1	506.1	509.6	516.7
165°	553.0	545.4	536.6	529.0	524.5	519.1	516.9	518.0	516.9	519.1	524.5
167.5°	551.3	545.2	538.8	534.0	530.9	526.7	525.7	527.0	525.7	526.7	530.9
170°	548.7	544.2	538.8	536.6	534.4	531.1	530.0	532.3	530.0	531.1	534.4
172.5°	547.8	544.2	539.7	538.4	537.1	534.6	534.4	535.7	534.4	534.6	537.1
175°	545.4	543.2	541.0	539.9	539.9	537.7	538.8	539.9	538.8	537.7	539.9
177.5°	543.6	541.9	541.0	541.0	541.0	540.1	541.0	541.9	541.0	540.1	541.0
180°	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0



TEST NUMBER: P332038-830

CATALOG NUMBER: S123DIP-S1000D1195U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1301.7	1298.2	1293.1	1285.3	1279.2	1269.4	1269.4	1271.0	1271.0	1270.5	1269.4
5°	1262.3	1252.6	1241.1	1227.7	1213.5	1199.4	1196.8	1191.8	1187.9	1185.2	1182.0
7.5°	1220.6	1203.5	1186.7	1167.8	1150.7	1136.4	1126.5	1118.3	1113.0	1107.4	1103.3
10°	1192.3	1171.2	1151.3	1131.4	1109.6	1092.3	1081.4	1073.7	1067.9	1062.8	1060.3
12.5°	1159.0	1134.7	1112.9	1093.9	1070.1	1052.3	1041.9	1038.3	1031.5	1020.7	1015.0
15°	1110.2	1087.8	1061.5	1032.6	1021.1	999.3	987.1	981.4	977.5	969.1	966.6
17.5°	1068.6	1039.2	1009.7	988.2	966.7	949.0	942.2	935.0	929.9	923.1	921.1
20°	1035.2	1008.9	981.9	958.8	936.4	917.2	911.4	906.3	901.2	898.0	895.4
22.5°	1001.4	975.1	952.7	931.1	907.2	894.6	888.3	882.7	879.1	876.9	874.3
25°	953.8	930.7	905.7	886.4	867.1	858.8	855.0	851.8	849.2	846.0	845.4
27.5°	911.2	886.0	865.7	847.8	834.0	827.0	823.3	821.7	822.3	823.4	824.2
30°	879.4	856.3	839.6	824.2	811.3	804.9	804.3	804.3	806.9	807.5	808.8
32.5°	850.1	831.1	814.5	799.6	789.9	785.4	787.9	787.9	789.9	791.6	793.9
35°	807.5	790.8	778.0	765.2	756.9	758.7	760.1	761.3	764.5	768.4	771.0
37.5°	766.9	752.3	739.0	729.0	725.2	728.6	731.7	734.4	738.1	741.0	743.7
40°	737.6	726.7	713.9	704.9	706.2	708.1	710.7	713.9	717.1	719.0	721.6
42.5°	710.4	699.0	689.3	681.8	683.6	686.1	687.6	689.3	693.0	696.4	698.0
45°	669.0	660.0	651.0	646.5	647.8	649.1	650.4	652.3	655.5	658.1	658.7
47.5°	622.4	616.1	610.1	605.8	607.8	607.3	609.0	613.0	614.1	615.6	619.2
50°	592.7	586.8	579.9	578.5	578.5	578.5	579.2	584.3	584.3	586.8	589.5
52.5°	559.8	556.1	551.6	549.3	548.3	548.3	550.9	553.6	554.6	558.2	560.7
55°	511.2	507.4	503.5	501.5	500.3	501.5	506.7	507.9	511.2	513.1	515.0
57.5°	460.5	457.6	454.5	453.5	453.2	454.9	457.7	461.6	462.3	468.3	471.2
60°	427.2	422.6	420.1	420.1	418.9	424.6	423.3	429.7	431.0	434.9	439.3
62.5°	392.8	386.7	385.7	385.7	387.6	389.2	391.0	393.8	397.2	402.0	405.5
65°	337.3	334.1	338.7	338.0	336.8	340.5	340.5	343.7	347.6	352.1	359.2
67.5°	284.9	283.2	283.6	283.6	285.6	287.8	289.5	292.4	297.0	301.7	306.3
70°	249.5	251.5	248.3	250.8	252.7	253.4	254.7	258.4	263.6	266.8	271.9
72.5°	215.1	215.0	215.4	216.4	218.3	219.5	220.7	225.2	230.7	233.5	237.6
75°	165.5	164.9	166.7	166.7	169.9	171.3	172.6	174.5	179.6	183.4	186.6
77.5°	120.8	121.6	121.2	123.4	122.5	122.7	126.8	128.7	129.2	136.8	138.5
80°	91.0	92.4	93.0	93.7	94.3	93.0	97.5	99.4	99.4	103.9	107.1
82.5°	65.4	66.2	67.9	68.5	68.6	69.9	70.3	71.7	73.2	75.2	79.4
85°	32.7	34.6	35.3	34.6	35.3	34.0	35.9	36.6	37.2	37.2	37.2
87.5°	12.6	13.7	13.8	14.9	15.1	16.2	16.0	15.3	15.5	17.2	15.6
90°	12.1	14.2	17.5	20.8	24.1	27.3	26.3	27.3	28.5	29.6	31.8
92.5°	47.1	63.3	92.0	139.1	185.3	168.4	127.1	92.2	73.1	64.6	58.9
95°	99.6	142.3	235.4	398.6	578.2	649.4	526.7	394.3	267.2	209.2	169.8
97.5°	118.3	164.5	253.4	437.3	736.8	1006.4	1076.7	982.7	787.1	645.9	514.9
100°	131.4	174.1	250.8	412.8	700.9	1037.1	1252.8	1291.1	1202.4	1074.3	918.8
102.5°	146.3	185.5	254.3	391.8	648.3	980.1	1261.5	1393.6	1390.7	1316.1	1217.5
105°	170.8	204.8	263.9	376.7	583.7	880.4	1194.8	1423.6	1533.1	1554.0	1525.5
107.5°	198.4	230.0	281.9	375.6	542.5	792.4	1077.8	1337.3	1515.1	1611.1	1650.1
110°	216.8	247.5	296.8	380.0	526.7	742.4	1004.2	1255.0	1456.5	1594.5	1671.1



TEST NUMBER: P332038-830

CATALOG NUMBER: S123DIP-S1000D1195U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	236.1	265.9	311.7	388.8	518.0	709.2	940.3	1173.5	1379.4	1534.0	1632.6
115°	265.0	294.5	336.2	403.0	514.7	673.4	862.9	1065.5	1256.0	1417.0	1536.4
117.5°	293.7	321.1	362.2	421.8	516.7	652.4	816.2	987.3	1151.8	1296.4	1417.5
120°	312.1	339.5	378.9	435.8	520.2	642.8	791.7	946.1	1094.0	1225.4	1336.1
122.5°	328.8	357.9	396.4	449.0	526.3	636.7	771.6	913.7	1047.5	1169.3	1272.1
125°	353.7	383.2	421.6	469.8	535.5	628.6	745.7	870.6	990.0	1095.0	1182.7
127.5°	376.9	406.5	443.5	486.9	546.0	624.6	723.0	832.9	939.3	1034.2	1113.9
130°	391.0	420.5	456.7	498.2	553.0	622.0	710.7	809.3	907.9	996.6	1071.0
132.5°	404.1	432.8	468.1	508.8	558.3	621.1	699.4	787.4	878.1	960.6	1031.6
135°	421.6	451.2	485.1	522.4	566.2	619.8	684.5	757.8	835.6	906.7	969.1
137.5°	437.0	464.3	496.9	532.4	571.5	617.4	671.5	730.8	794.6	855.9	910.0
140°	445.7	473.1	504.8	537.7	575.0	616.5	663.6	715.1	770.9	823.5	870.6
142.5°	454.5	480.1	511.0	542.9	577.6	614.8	656.6	700.2	748.2	793.7	834.7
145°	465.4	490.6	519.1	548.7	579.3	612.2	647.2	682.2	718.4	753.5	785.1
147.5°	478.2	499.5	525.7	552.1	579.3	608.0	638.0	667.6	696.3	724.5	747.1
150°	485.1	504.8	530.0	553.0	579.3	604.5	631.9	657.0	682.2	705.2	726.0
152.5°	492.1	511.0	532.6	554.8	576.6	600.1	624.9	647.4	669.1	689.5	706.8
155°	503.7	519.1	537.7	555.3	573.8	592.5	614.3	632.9	650.4	666.9	680.0
157.5°	513.8	525.7	540.5	556.3	570.1	585.7	602.5	617.6	632.4	645.0	655.3
160°	519.1	530.0	543.2	556.3	568.4	580.4	594.7	608.9	620.9	631.9	639.5
162.5°	523.5	532.6	544.0	555.4	564.9	575.1	586.7	598.3	608.7	618.7	625.5
165°	529.0	536.6	545.4	553.0	559.6	567.2	576.0	584.8	591.4	599.0	604.5
167.5°	534.0	538.8	545.2	551.3	554.3	559.4	565.7	573.0	578.0	582.4	586.4
170°	536.6	538.8	544.2	548.7	550.8	554.1	559.6	565.1	568.4	572.7	575.0
172.5°	538.4	539.7	544.2	547.8	548.2	549.7	553.5	558.1	560.4	564.0	565.2
175°	539.9	541.0	543.2	545.4	544.2	544.2	546.5	548.7	549.7	552.0	552.0
177.5°	541.0	541.0	541.9	543.6	541.9	541.0	541.9	542.7	543.6	544.5	544.5
180°	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0



TEST NUMBER: P332038-830

CATALOG NUMBER: S123DIP-S1000D1195U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1265.8	1265.4	1268.9	1266.4	1268.9	1265.4	1265.8	1269.4	1270.5	1271.0	1271.0
5°	1178.3	1180.2	1173.7	1173.7	1173.7	1180.2	1178.3	1182.0	1185.2	1187.9	1191.8
7.5°	1100.2	1097.4	1097.7	1094.2	1097.7	1097.4	1100.2	1103.3	1107.4	1113.0	1118.3
10°	1052.5	1048.7	1047.4	1048.0	1047.4	1048.7	1052.5	1060.3	1062.8	1067.9	1073.7
12.5°	1013.0	1012.3	1003.8	1003.9	1003.8	1012.3	1013.0	1015.0	1020.7	1031.5	1038.3
15°	966.6	954.4	953.1	957.0	953.1	954.4	966.6	966.6	969.1	977.5	981.4
17.5°	920.0	913.6	914.0	912.1	914.0	913.6	920.0	921.1	923.1	929.9	935.0
20°	895.4	891.6	890.9	886.4	890.9	891.6	895.4	895.4	898.0	901.2	906.3
22.5°	872.8	871.6	871.9	867.0	871.9	871.6	872.8	874.3	876.9	879.1	882.7
25°	844.7	847.9	845.4	845.4	845.4	847.9	844.7	845.4	846.0	849.2	851.8
27.5°	825.8	825.6	824.3	824.3	824.3	825.6	825.8	824.2	823.4	822.3	821.7
30°	811.3	810.7	812.0	812.0	812.0	810.7	811.3	808.8	807.5	806.9	804.3
32.5°	797.0	797.9	798.1	798.6	798.1	797.9	797.0	793.9	791.6	789.9	787.9
35°	774.8	775.4	777.4	776.1	777.4	775.4	774.8	771.0	768.4	764.5	761.3
37.5°	744.8	747.7	747.1	748.1	747.1	747.7	744.8	743.7	741.0	738.1	734.4
40°	722.2	724.2	723.5	723.5	723.5	724.2	722.2	721.6	719.0	717.1	713.9
42.5°	699.1	700.5	698.9	697.9	698.9	700.5	699.1	698.0	696.4	693.0	689.3
45°	661.3	660.0	661.9	659.3	661.9	660.0	661.3	658.7	658.1	655.5	652.3
47.5°	619.0	620.2	620.8	622.6	620.8	620.2	619.0	619.2	615.6	614.1	613.0
50°	590.7	594.6	594.6	593.9	594.6	594.6	590.7	589.5	586.8	584.3	584.3
52.5°	563.0	564.8	567.4	567.2	567.4	564.8	563.0	560.7	558.2	554.6	553.6
55°	520.2	521.4	522.7	523.4	522.7	521.4	520.2	515.0	513.1	511.2	507.9
57.5°	475.8	475.2	478.3	479.3	478.3	475.2	475.8	471.2	468.3	462.3	461.6
60°	444.5	444.5	449.6	451.6	449.6	444.5	444.5	439.3	434.9	431.0	429.7
62.5°	411.1	413.2	418.3	415.7	418.3	413.2	411.1	405.5	402.0	397.2	393.8
65°	362.4	367.5	366.8	369.5	366.8	367.5	362.4	359.2	352.1	347.6	343.7
67.5°	311.4	314.6	319.2	319.7	319.2	314.6	311.4	306.3	301.7	297.0	292.4
70°	277.1	280.3	282.9	284.7	282.9	280.3	277.1	271.9	266.8	263.6	258.4
72.5°	243.7	245.4	251.6	248.8	251.6	245.4	243.7	237.6	233.5	230.7	225.2
75°	191.1	195.6	199.4	197.6	199.4	195.6	191.1	186.6	183.4	179.6	174.5
77.5°	141.4	145.8	147.6	146.0	147.6	145.8	141.4	138.5	136.8	129.2	128.7
80°	111.6	110.9	114.8	114.1	114.8	110.9	111.6	107.1	103.9	99.4	99.4
82.5°	81.8	81.2	83.0	83.4	83.0	81.2	81.8	79.4	75.2	73.2	71.7
85°	39.8	41.7	39.1	38.5	39.1	41.7	39.8	37.2	37.2	37.2	36.6
87.5°	15.4	15.6	15.3	14.5	15.3	15.6	15.4	15.6	17.2	15.5	15.3
90°	30.6	31.8	32.9	31.8	32.9	31.8	30.6	31.8	29.6	28.5	27.3
92.5°	56.9	53.6	54.8	52.8	54.8	53.6	56.9	58.9	64.6	73.1	92.2
95°	148.9	139.1	131.4	127.1	131.4	139.1	148.9	169.8	209.2	267.2	394.3
97.5°	434.1	384.8	355.2	345.8	355.2	384.8	434.1	514.9	645.9	787.1	982.7
100°	808.1	728.2	685.5	686.6	685.5	728.2	808.1	918.8	1074.3	1202.4	1291.1
102.5°	1131.4	1068.2	1032.5	1007.3	1032.5	1068.2	1131.4	1217.5	1316.1	1390.7	1393.6
105°	1475.1	1433.5	1398.5	1393.0	1398.5	1433.5	1475.1	1525.5	1554.0	1533.1	1423.6
107.5°	1651.0	1636.9	1625.1	1615.0	1625.1	1636.9	1651.0	1650.1	1611.1	1515.1	1337.3
110°	1701.8	1710.5	1708.4	1706.2	1708.4	1710.5	1701.8	1671.1	1594.5	1456.5	1255.0



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1688.7	1715.8	1724.1	1724.6	1724.1	1715.8	1688.7	1632.6	1534.0	1379.4	1173.5
115°	1618.5	1666.7	1688.7	1694.1	1688.7	1666.7	1618.5	1536.4	1417.0	1256.0	1065.5
117.5°	1503.2	1558.3	1589.9	1597.3	1589.9	1558.3	1503.2	1417.5	1296.4	1151.8	987.3
120°	1422.5	1483.8	1510.1	1516.7	1510.1	1483.8	1422.5	1336.1	1225.4	1094.0	946.1
122.5°	1349.0	1404.1	1433.0	1441.3	1433.0	1404.1	1349.0	1272.1	1169.3	1047.5	913.7
125°	1252.8	1301.0	1328.3	1336.1	1328.3	1301.0	1252.8	1182.7	1095.0	990.0	870.6
127.5°	1176.4	1217.5	1242.3	1249.2	1242.3	1217.5	1176.4	1113.9	1034.2	939.3	832.9
130°	1129.1	1168.5	1191.5	1200.2	1191.5	1168.5	1129.1	1071.0	996.6	907.9	809.3
132.5°	1086.1	1125.5	1145.9	1152.1	1145.9	1125.5	1086.1	1031.6	960.6	878.1	787.4
135°	1022.8	1055.6	1075.3	1083.1	1075.3	1055.6	1022.8	969.1	906.7	835.6	757.8
137.5°	955.2	988.4	1005.0	1010.1	1005.0	988.4	955.2	910.0	855.9	794.6	730.8
140°	912.2	942.9	960.4	959.3	960.4	942.9	912.2	870.6	823.5	770.9	715.1
142.5°	870.2	897.3	913.0	912.0	913.0	897.3	870.2	834.7	793.7	748.2	700.2
145°	812.6	835.6	844.3	846.5	844.3	835.6	812.6	785.1	753.5	718.4	682.2
147.5°	767.9	783.4	791.7	792.6	791.7	783.4	767.9	747.1	724.5	696.3	667.6
150°	742.4	754.5	761.1	761.1	761.1	754.5	742.4	726.0	705.2	682.2	657.0
152.5°	719.7	730.8	734.8	734.8	734.8	730.8	719.7	706.8	689.5	669.1	647.4
155°	689.9	698.7	700.9	701.9	700.9	698.7	689.9	680.0	666.9	650.4	632.9
157.5°	663.8	670.4	672.1	671.9	672.1	670.4	663.8	655.3	645.0	632.4	617.6
160°	647.2	653.7	653.7	652.7	653.7	653.7	647.2	639.5	631.9	620.9	608.9
162.5°	630.6	636.2	636.2	635.2	636.2	636.2	630.6	625.5	618.7	608.7	598.3
165°	608.9	613.2	612.2	612.2	612.2	613.2	608.9	604.5	599.0	591.4	584.8
167.5°	588.2	591.4	590.2	590.2	590.2	591.4	588.2	586.4	582.4	578.0	573.0
170°	576.0	578.2	577.1	577.1	577.1	578.2	576.0	575.0	572.7	568.4	565.1
172.5°	565.5	567.7	565.7	564.9	565.7	567.7	565.5	565.2	564.0	560.4	558.1
175°	552.0	553.0	552.0	550.8	552.0	553.0	552.0	552.0	552.0	549.7	548.7
177.5°	543.6	544.5	542.7	542.7	542.7	544.5	543.6	544.5	544.5	543.6	542.7
180°	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1269.4	1269.4	1279.2	1285.3	1293.1	1298.2	1301.7	1305.3	1311.5	1319.7	1329.0
5°	1196.8	1199.4	1213.5	1227.7	1241.1	1252.6	1262.3	1273.8	1287.9	1305.2	1324.5
7.5°	1126.5	1136.4	1150.7	1167.8	1186.7	1203.5	1220.6	1239.5	1259.4	1285.0	1311.9
10°	1081.4	1092.3	1109.6	1131.4	1151.3	1171.2	1192.3	1212.9	1237.8	1268.0	1302.7
12.5°	1041.9	1052.3	1070.1	1093.9	1112.9	1134.7	1159.0	1185.7	1213.8	1250.1	1289.3
15°	987.1	999.3	1021.1	1032.6	1061.5	1087.8	1110.2	1148.8	1184.7	1221.8	1267.4
17.5°	942.2	949.0	966.7	988.2	1009.7	1039.2	1068.6	1100.6	1136.4	1181.9	1238.9
20°	911.4	917.2	936.4	958.8	981.9	1008.9	1035.2	1067.2	1107.7	1155.7	1217.4
22.5°	888.3	894.6	907.2	931.1	952.7	975.1	1001.4	1039.5	1082.5	1129.6	1196.4
25°	855.0	858.8	867.1	886.4	905.7	930.7	953.8	989.7	1034.0	1089.1	1155.7
27.5°	823.3	827.0	834.0	847.8	865.7	886.0	911.2	941.7	986.6	1046.5	1117.3
30°	804.3	804.9	811.3	824.2	839.6	856.3	879.4	914.0	956.3	1017.3	1091.7
32.5°	787.9	785.4	789.9	799.6	814.5	831.1	850.1	884.2	925.0	985.0	1061.4
35°	760.1	758.7	756.9	765.2	778.0	790.8	807.5	833.2	879.4	935.2	1015.3
37.5°	731.7	728.6	725.2	729.0	739.0	752.3	766.9	789.7	829.4	890.9	967.6
40°	710.7	708.1	706.2	704.9	713.9	726.7	737.6	759.4	796.6	855.0	930.7
42.5°	687.6	686.1	683.6	681.8	689.3	699.0	710.4	729.6	766.9	821.6	893.2
45°	650.4	649.1	647.8	646.5	651.0	660.0	669.0	683.1	715.1	768.4	833.2
47.5°	609.0	607.3	607.8	605.8	610.1	616.1	622.4	637.5	668.4	711.3	758.7
50°	579.2	578.5	578.5	578.5	579.9	586.8	592.7	604.2	632.4	675.4	709.4
52.5°	550.9	548.3	548.3	549.3	551.6	556.1	559.8	572.4	597.0	632.3	663.2
55°	506.7	501.5	500.3	501.5	503.5	507.4	511.2	521.4	542.6	568.9	586.8
57.5°	457.7	454.9	453.2	453.5	454.5	457.6	460.5	471.6	488.3	502.1	513.6
60°	423.3	424.6	418.9	420.1	420.1	422.6	427.2	434.2	448.4	458.0	469.5
62.5°	391.0	389.2	387.6	385.7	385.7	386.7	392.8	398.3	410.4	415.4	424.3
65°	340.5	340.5	336.8	338.0	338.7	334.1	337.3	343.7	351.5	353.5	361.7
67.5°	289.5	287.8	285.6	283.6	283.6	283.2	284.9	288.1	293.9	294.5	301.0
70°	254.7	253.4	252.7	250.8	248.3	251.5	249.5	252.7	255.9	256.6	260.4
72.5°	220.7	219.5	218.3	216.4	215.4	215.0	215.1	218.9	221.0	220.1	224.5
75°	172.6	171.3	169.9	166.7	166.7	164.9	165.5	168.1	170.6	168.7	172.6
77.5°	126.8	122.7	122.5	123.4	121.2	121.6	120.8	120.5	121.6	121.8	125.2
80°	97.5	93.0	94.3	93.7	93.0	92.4	91.0	91.7	92.4	93.0	94.9
82.5°	70.3	69.9	68.6	68.5	67.9	66.2	65.4	66.5	67.2	66.8	68.2
85°	35.9	34.0	35.3	34.6	35.3	34.6	32.7	32.7	34.0	33.4	34.6
87.5°	16.0	16.2	15.1	14.9	13.8	13.7	12.6	12.7	12.6	12.2	12.7
90°	26.3	27.3	24.1	20.8	17.5	14.2	12.1	9.9	6.6	4.3	2.2
92.5°	127.1	168.4	185.3	139.1	92.0	63.3	47.1	37.9	29.3	20.2	13.6
95°	526.7	649.4	578.2	398.6	235.4	142.3	99.6	71.2	52.6	40.5	37.2
97.5°	1076.7	1006.4	736.8	437.3	253.4	164.5	118.3	90.2	74.0	64.6	63.5
100°	1252.8	1037.1	700.9	412.8	250.8	174.1	131.4	105.1	89.8	82.1	81.1
102.5°	1261.5	980.1	648.3	391.8	254.3	185.5	146.3	122.6	108.2	101.4	99.4
105°	1194.8	880.4	583.7	376.7	263.9	204.8	170.8	150.1	136.9	130.4	127.1
107.5°	1077.8	792.4	542.5	375.6	281.9	230.0	198.4	178.9	166.0	159.7	156.4
110°	1004.2	742.4	526.7	380.0	296.8	247.5	216.8	198.2	186.2	180.7	177.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	940.3	709.2	518.0	388.8	311.7	265.9	236.1	217.4	205.5	200.0	196.7
115°	862.9	673.4	514.7	403.0	336.2	294.5	265.0	246.4	235.4	228.8	224.5
117.5°	816.2	652.4	516.7	421.8	362.2	321.1	293.7	272.9	262.8	257.3	252.3
120°	791.7	642.8	520.2	435.8	378.9	339.5	312.1	291.3	280.3	274.8	271.5
122.5°	771.6	636.7	526.3	449.0	396.4	357.9	328.8	308.8	297.0	291.5	288.2
125°	745.7	628.6	535.5	469.8	421.6	383.2	353.7	332.9	320.8	314.3	312.1
127.5°	723.0	624.6	546.0	486.9	443.5	406.5	376.9	353.9	341.7	333.6	330.3
130°	710.7	622.0	553.0	498.2	456.7	420.5	391.0	368.0	354.8	345.0	341.7
132.5°	699.4	621.1	558.3	508.8	468.1	432.8	404.1	381.1	365.3	354.6	350.4
135°	684.5	619.8	566.2	522.4	485.1	451.2	421.6	398.6	382.2	370.1	365.8
137.5°	671.5	617.4	571.5	532.4	496.9	464.3	437.0	414.2	396.6	384.8	380.2
140°	663.6	616.5	575.0	537.7	504.8	473.1	445.7	423.8	406.2	395.3	389.8
142.5°	656.6	614.8	577.6	542.9	511.0	480.1	454.5	432.5	416.8	405.0	400.4
145°	647.2	612.2	579.3	548.7	519.1	490.6	465.4	446.8	430.4	420.5	417.3
147.5°	638.0	608.0	579.3	552.1	525.7	499.5	478.2	460.1	445.9	436.3	434.3
150°	631.9	604.5	579.3	553.0	530.0	504.8	485.1	469.8	455.5	446.8	445.7
152.5°	624.9	600.1	576.6	554.8	532.6	511.0	492.1	478.5	466.1	457.3	457.1
155°	614.3	592.5	573.8	555.3	537.7	519.1	503.7	491.7	480.8	474.2	474.2
157.5°	602.5	585.7	570.1	556.3	540.5	525.7	513.8	503.5	493.9	488.6	487.8
160°	594.7	580.4	568.4	556.3	543.2	530.0	519.1	511.4	502.7	498.2	498.2
162.5°	586.7	575.1	564.9	555.4	544.0	532.6	523.5	516.7	509.6	506.1	506.1
165°	576.0	567.2	559.6	553.0	545.4	536.6	529.0	524.5	519.1	516.9	518.0
167.5°	565.7	559.4	554.3	551.3	545.2	538.8	534.0	530.9	526.7	525.7	527.0
170°	559.6	554.1	550.8	548.7	544.2	538.8	536.6	534.4	531.1	530.0	532.3
172.5°	553.5	549.7	548.2	547.8	544.2	539.7	538.4	537.1	534.6	534.4	535.7
175°	546.5	544.2	544.2	545.4	543.2	541.0	539.9	539.9	537.7	538.8	539.9
177.5°	541.9	541.0	541.9	543.6	541.9	541.0	541.0	541.0	540.1	541.0	541.9
180°	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1332.0	1334.6	1343.3	1349.5	1356.7	1360.7	1364.9	1368.0	1372.1	1373.1	1388.0
5°	1337.9	1350.8	1373.2	1389.9	1410.4	1432.9	1448.2	1455.3	1473.9	1489.3	1520.1
7.5°	1336.2	1363.6	1397.5	1432.6	1470.4	1505.2	1535.5	1571.4	1596.9	1635.3	1673.1
10°	1334.7	1371.3	1414.9	1459.8	1512.4	1561.1	1604.8	1653.5	1693.9	1747.2	1792.7
12.5°	1330.1	1374.4	1434.9	1488.0	1551.9	1619.1	1683.8	1746.3	1782.2	1870.9	1912.8
15°	1318.7	1371.3	1447.0	1527.8	1615.7	1695.2	1777.3	1842.8	1948.5	2026.2	2075.6
17.5°	1296.9	1370.6	1460.3	1557.8	1664.6	1769.4	1862.5	1961.8	2074.0	2167.9	2267.9
20°	1286.7	1367.4	1467.5	1575.3	1686.2	1804.9	1910.7	2030.0	2152.5	2244.9	2373.1
22.5°	1267.6	1359.2	1467.0	1587.1	1705.7	1828.4	1952.3	2072.6	2214.1	2341.4	2463.4
25°	1236.6	1339.3	1450.9	1584.9	1724.1	1847.2	1995.4	2155.1	2302.6	2466.2	2588.0
27.5°	1204.0	1313.5	1425.4	1550.1	1699.8	1846.0	2032.3	2212.8	2393.1	2534.4	2624.6
30°	1178.8	1285.3	1400.8	1526.5	1674.7	1848.5	2056.9	2253.8	2429.6	2550.8	2601.5
32.5°	1151.7	1259.7	1361.8	1493.6	1651.6	1846.9	2072.4	2277.9	2431.7	2512.3	2502.5
35°	1109.0	1199.4	1298.8	1425.8	1611.8	1835.7	2081.3	2280.1	2374.5	2357.1	2226.3
37.5°	1047.4	1123.4	1221.3	1360.4	1565.7	1811.9	2063.3	2212.5	2206.4	2065.4	1875.8
40°	1008.9	1073.7	1168.0	1314.2	1529.7	1796.6	2035.1	2132.0	2049.9	1852.9	1625.9
42.5°	958.7	1018.2	1112.6	1262.9	1490.3	1765.2	1981.2	2009.3	1848.7	1622.1	1414.0
45°	880.6	933.2	1030.7	1185.9	1431.0	1697.1	1849.7	1781.1	1565.0	1330.9	1172.4
47.5°	796.8	851.5	945.3	1104.8	1345.3	1594.6	1667.4	1521.4	1299.5	1109.6	964.1
50°	744.0	796.6	888.3	1049.3	1287.2	1510.5	1540.6	1352.1	1148.1	981.4	862.0
52.5°	690.7	740.2	830.4	991.8	1219.6	1413.0	1394.4	1202.2	1014.6	872.5	778.9
55°	611.2	658.1	744.0	895.4	1102.6	1255.8	1188.5	1005.0	849.9	739.5	668.4
57.5°	540.2	585.0	659.2	796.0	976.1	1081.4	995.7	841.1	717.7	632.8	579.7
60°	491.9	531.7	602.3	729.2	885.8	965.9	881.3	744.7	640.7	572.8	525.3
62.5°	446.3	480.9	546.3	661.6	797.5	864.9	779.2	663.5	575.0	514.8	474.5
65°	377.1	408.6	466.3	556.1	667.7	712.6	638.9	545.2	476.5	431.7	404.7
67.5°	314.1	340.7	390.6	461.3	543.4	576.1	519.9	447.4	395.8	359.7	338.3
70°	271.9	295.0	334.1	395.1	469.5	494.6	442.0	382.3	344.4	315.6	295.7
72.5°	236.6	253.4	289.0	336.1	398.1	418.0	381.4	328.9	293.6	271.9	256.2
75°	180.2	194.4	217.4	255.2	298.2	309.8	282.2	249.5	225.7	210.4	198.2
77.5°	130.0	140.3	157.0	180.4	210.1	220.6	203.0	181.3	163.9	153.5	146.8
80°	98.1	106.5	120.6	139.8	157.8	163.5	153.3	136.6	124.4	118.7	112.9
82.5°	72.5	77.2	85.7	98.8	111.1	117.9	109.1	99.2	92.7	87.4	85.2
85°	36.6	39.1	43.0	48.1	55.8	58.3	55.1	52.6	48.7	45.5	45.5
87.5°	14.2	14.6	16.9	18.3	20.8	23.0	23.2	22.8	22.9	22.1	21.9
90°	4.3	6.6	9.9	12.1	14.2	17.5	20.8	24.1	27.3	26.3	27.3
92.5°	20.2	29.3	37.9	47.1	63.3	92.0	139.1	185.3	168.4	127.1	92.2
95°	40.5	52.6	71.2	99.6	142.3	235.4	398.6	578.2	649.4	526.7	394.3
97.5°	64.6	74.0	90.2	118.3	164.5	253.4	437.3	736.8	1006.4	1076.7	982.7
100°	82.1	89.8	105.1	131.4	174.1	250.8	412.8	700.9	1037.1	1252.8	1291.1
102.5°	101.4	108.2	122.6	146.3	185.5	254.3	391.8	648.3	980.1	1261.5	1393.6
105°	130.4	136.9	150.1	170.8	204.8	263.9	376.7	583.7	880.4	1194.8	1423.6
107.5°	159.7	166.0	178.9	198.4	230.0	281.9	375.6	542.5	792.4	1077.8	1337.3
110°	180.7	186.2	198.2	216.8	247.5	296.8	380.0	526.7	742.4	1004.2	1255.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	200.0	205.5	217.4	236.1	265.9	311.7	388.8	518.0	709.2	940.3	1173.5
115°	228.8	235.4	246.4	265.0	294.5	336.2	403.0	514.7	673.4	862.9	1065.5
117.5°	257.3	262.8	272.9	293.7	321.1	362.2	421.8	516.7	652.4	816.2	987.3
120°	274.8	280.3	291.3	312.1	339.5	378.9	435.8	520.2	642.8	791.7	946.1
122.5°	291.5	297.0	308.8	328.8	357.9	396.4	449.0	526.3	636.7	771.6	913.7
125°	314.3	320.8	332.9	353.7	383.2	421.6	469.8	535.5	628.6	745.7	870.6
127.5°	333.6	341.7	353.9	376.9	406.5	443.5	486.9	546.0	624.6	723.0	832.9
130°	345.0	354.8	368.0	391.0	420.5	456.7	498.2	553.0	622.0	710.7	809.3
132.5°	354.6	365.3	381.1	404.1	432.8	468.1	508.8	558.3	621.1	699.4	787.4
135°	370.1	382.2	398.6	421.6	451.2	485.1	522.4	566.2	619.8	684.5	757.8
137.5°	384.8	396.6	414.2	437.0	464.3	496.9	532.4	571.5	617.4	671.5	730.8
140°	395.3	406.2	423.8	445.7	473.1	504.8	537.7	575.0	616.5	663.6	715.1
142.5°	405.0	416.8	432.5	454.5	480.1	511.0	542.9	577.6	614.8	656.6	700.2
145°	420.5	430.4	446.8	465.4	490.6	519.1	548.7	579.3	612.2	647.2	682.2
147.5°	436.3	445.9	460.1	478.2	499.5	525.7	552.1	579.3	608.0	638.0	667.6
150°	446.8	455.5	469.8	485.1	504.8	530.0	553.0	579.3	604.5	631.9	657.0
152.5°	457.3	466.1	478.5	492.1	511.0	532.6	554.8	576.6	600.1	624.9	647.4
155°	474.2	480.8	491.7	503.7	519.1	537.7	555.3	573.8	592.5	614.3	632.9
157.5°	488.6	493.9	503.5	513.8	525.7	540.5	556.3	570.1	585.7	602.5	617.6
160°	498.2	502.7	511.4	519.1	530.0	543.2	556.3	568.4	580.4	594.7	608.9
162.5°	506.1	509.6	516.7	523.5	532.6	544.0	555.4	564.9	575.1	586.7	598.3
165°	516.9	519.1	524.5	529.0	536.6	545.4	553.0	559.6	567.2	576.0	584.8
167.5°	525.7	526.7	530.9	534.0	538.8	545.2	551.3	554.3	559.4	565.7	573.0
170°	530.0	531.1	534.4	536.6	538.8	544.2	548.7	550.8	554.1	559.6	565.1
172.5°	534.4	534.6	537.1	538.4	539.7	544.2	547.8	548.2	549.7	553.5	558.1
175°	538.8	537.7	539.9	539.9	541.0	543.2	545.4	544.2	544.2	546.5	548.7
177.5°	541.0	540.1	541.0	541.0	541.0	541.9	543.6	541.9	541.0	541.9	542.7
180°	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1393.1	1393.6	1399.3	1403.4	1401.3	1403.9	1404.9
5°	1522.0	1545.1	1557.3	1566.3	1566.9	1567.5	1572.7
7.5°	1704.8	1729.6	1747.7	1775.1	1783.3	1792.7	1790.0
10°	1838.2	1874.8	1906.2	1922.9	1940.9	1967.2	1946.0
12.5°	1962.9	2027.7	2075.6	2101.5	2118.4	2123.6	2113.3
15°	2168.5	2253.2	2298.8	2297.4	2355.2	2380.2	2341.1
17.5°	2357.1	2435.2	2497.8	2529.9	2578.0	2588.7	2583.8
20°	2472.6	2557.9	2606.6	2661.7	2686.8	2709.2	2713.1
22.5°	2572.1	2648.7	2701.0	2746.9	2767.9	2778.5	2784.9
25°	2674.6	2734.9	2766.4	2782.4	2788.1	2786.8	2778.5
27.5°	2667.6	2672.2	2637.5	2603.6	2573.1	2538.9	2527.1
30°	2598.3	2544.4	2448.2	2393.7	2313.5	2250.0	2275.7
32.5°	2416.1	2308.9	2200.8	2081.7	1983.0	1954.9	1926.7
35°	2062.1	1873.5	1763.2	1634.9	1583.6	1532.3	1497.0
37.5°	1668.3	1522.4	1391.6	1307.7	1256.2	1223.8	1206.4
40°	1442.5	1311.0	1203.2	1135.3	1096.2	1059.6	1054.4
42.5°	1262.3	1140.1	1059.0	1004.9	967.3	951.8	940.6
45°	1034.0	948.6	894.1	855.6	830.6	821.0	808.1
47.5°	875.2	814.8	773.9	747.7	728.9	721.7	720.7
50°	786.4	736.3	706.2	685.6	670.9	668.4	658.1
52.5°	719.6	676.3	652.8	634.9	624.2	617.0	614.0
55°	624.7	595.9	574.7	564.4	556.1	549.0	549.0
57.5°	546.6	522.5	508.5	499.7	497.2	492.2	489.0
60°	498.3	477.9	466.9	459.2	454.1	454.8	448.9
62.5°	451.2	437.8	427.4	419.7	413.6	413.7	414.1
65°	384.2	373.9	366.3	363.6	359.9	355.3	356.7
67.5°	325.6	315.9	309.9	305.6	304.3	301.8	305.6
70°	283.5	276.4	271.9	268.1	266.8	267.5	270.7
72.5°	245.0	240.0	237.0	235.3	232.4	232.5	234.8
75°	192.4	188.6	186.0	184.1	183.4	183.4	183.4
77.5°	141.4	140.4	139.3	136.5	136.6	137.4	137.5
80°	111.6	109.7	109.1	107.7	105.8	104.5	107.7
82.5°	83.4	81.4	80.8	80.6	77.6	77.4	80.0
85°	44.9	43.0	43.6	43.0	43.0	42.3	42.3
87.5°	21.6	21.3	21.2	21.5	21.2	20.9	21.8
90°	28.5	29.6	31.8	30.6	31.8	32.9	31.8
92.5°	73.1	64.6	58.9	56.9	53.6	54.8	52.8
95°	267.2	209.2	169.8	148.9	139.1	131.4	127.1
97.5°	787.1	645.9	514.9	434.1	384.8	355.2	345.8
100°	1202.4	1074.3	918.8	808.1	728.2	685.5	686.6
102.5°	1390.7	1316.1	1217.5	1131.4	1068.2	1032.5	1007.3
105°	1533.1	1554.0	1525.5	1475.1	1433.5	1398.5	1393.0
107.5°	1515.1	1611.1	1650.1	1651.0	1636.9	1625.1	1615.0
110°	1456.5	1594.5	1671.1	1701.8	1710.5	1708.4	1706.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1379.4	1534.0	1632.6	1688.7	1715.8	1724.1	1724.6
115°	1256.0	1417.0	1536.4	1618.5	1666.7	1688.7	1694.1
117.5°	1151.8	1296.4	1417.5	1503.2	1558.3	1589.9	1597.3
120°	1094.0	1225.4	1336.1	1422.5	1483.8	1510.1	1516.7
122.5°	1047.5	1169.3	1272.1	1349.0	1404.1	1433.0	1441.3
125°	990.0	1095.0	1182.7	1252.8	1301.0	1328.3	1336.1
127.5°	939.3	1034.2	1113.9	1176.4	1217.5	1242.3	1249.2
130°	907.9	996.6	1071.0	1129.1	1168.5	1191.5	1200.2
132.5°	878.1	960.6	1031.6	1086.1	1125.5	1145.9	1152.1
135°	835.6	906.7	969.1	1022.8	1055.6	1075.3	1083.1
137.5°	794.6	855.9	910.0	955.2	988.4	1005.0	1010.1
140°	770.9	823.5	870.6	912.2	942.9	960.4	959.3
142.5°	748.2	793.7	834.7	870.2	897.3	913.0	912.0
145°	718.4	753.5	785.1	812.6	835.6	844.3	846.5
147.5°	696.3	724.5	747.1	767.9	783.4	791.7	792.6
150°	682.2	705.2	726.0	742.4	754.5	761.1	761.1
152.5°	669.1	689.5	706.8	719.7	730.8	734.8	734.8
155°	650.4	666.9	680.0	689.9	698.7	700.9	701.9
157.5°	632.4	645.0	655.3	663.8	670.4	672.1	671.9
160°	620.9	631.9	639.5	647.2	653.7	653.7	652.7
162.5°	608.7	618.7	625.5	630.6	636.2	636.2	635.2
165°	591.4	599.0	604.5	608.9	613.2	612.2	612.2
167.5°	578.0	582.4	586.4	588.2	591.4	590.2	590.2
170°	568.4	572.7	575.0	576.0	578.2	577.1	577.1
172.5°	560.4	564.0	565.2	565.5	567.7	565.7	564.9
175°	549.7	552.0	552.0	552.0	553.0	552.0	550.8
177.5°	543.6	544.5	544.5	543.6	544.5	542.7	542.7
180°	541.0	541.0	541.0	541.0	541.0	541.0	541.0

(END OF REPORT)