

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: P332038-840

Luminaire Tested: **S123DIP-S1000D1195U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332038-840  
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-S1000D1195U840-4F0-1E-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: 8646.2 lumens  
Efficiency: N/A  
Efficacy: 132.2 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

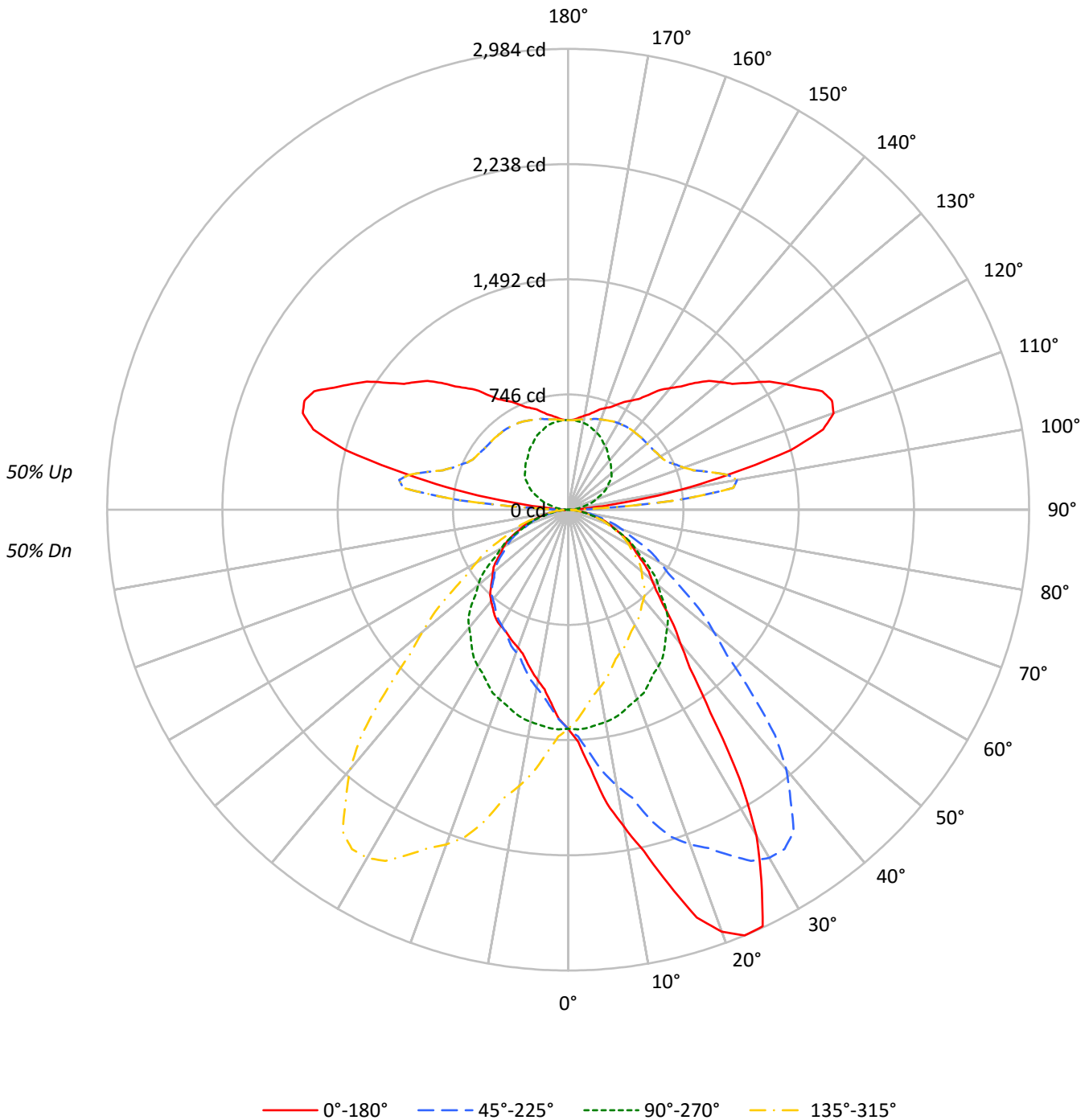
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	87	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	30	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	34	29	50	39	32	28	34	28	25	29	25	22	24	21	19	16
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	23	20	25	20	17	21	17	15	13

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

	0°	90°	180°	270°
0°	15268	15268	15268	15268
5°	18208	15333	13588	15333
10°	22789	15255	12273	15255
15°	27952	15133	11426	15133
20°	33298	14940	10879	14940
25°	35357	14707	10757	14707
30°	30305	14537	10813	14537
35°	21077	14294	10926	14294
40°	15874	14011	10893	14011
45°	13181	13589	10753	13589
50°	11807	12727	10655	12727
55°	11038	11798	10524	11798
60°	10355	10828	10415	10828
65°	9732	9872	10083	9872
70°	9127	8781	9602	8781
75°	8172	7690	8804	7690
80°	7153	6304	7581	6304
85°	5595	4582	5088	4582



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	1.6
10°-20°	448.0	5.2
20°-30°	751.9	8.7
30°-40°	851.4	9.8
40°-50°	763.5	8.8
50°-60°	616.1	7.1
60°-70°	429.4	5.0
70°-80°	225.7	2.6
80°-90°	59.7	0.7
90°-100°	322.6	3.7
100°-110°	913.4	10.6
110°-120°	898.5	10.4
120°-130°	716.7	8.3
130°-140°	565.1	6.5
140°-150°	421.7	4.9
150°-160°	294.0	3.4
160°-170°	172.7	2.0
170°-180°	56.2	0.6
0°-30°	1339.7	15.5
0°-40°	2191.1	25.3
0°-60°	3570.7	41.3
0°-90°	4285.5	49.6
90°-120°	2134.4	24.7
90°-150°	3837.9	44.4
90°-180°	4361.0	50.4
0°-180°	8646.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1685	1419	1258	1419	1685	175
15°	2508	1358	1025	1358	2508	724
25°	2977	1238	906	1238	2977	1306
35°	1604	1088	832	1088	1604	1042
45°	866	893	706	893	866	685
55°	588	629	561	629	588	528
65°	382	388	396	388	382	380
75°	196	185	212	185	196	210
85°	45	37	41	37	45	54
90°	34	2	34	2	34	20
95°	136	40	136	40	136	245
105°	1492	136	1492	136	1492	1472
115°	1815	240	1815	240	1815	1764
125°	1432	334	1432	334	1432	1297
135°	1160	392	1160	392	1160	900
145°	907	447	907	447	907	577
155°	752	508	752	508	752	351
165°	656	555	656	555	656	187
175°	590	578	590	578	590	57
180°	580	580	580	580	580	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1505.2	1504.2	1501.4	1503.6	1499.2	1493.2	1492.6	1487.1	1471.2	1470.1	1465.7
5°	1685.1	1679.5	1678.8	1678.2	1668.5	1655.5	1630.7	1628.7	1595.7	1579.2	1559.2
7.5°	1917.8	1920.8	1910.7	1901.9	1872.5	1853.1	1826.5	1792.6	1752.1	1711.0	1683.6
10°	2085.0	2107.7	2079.5	2060.2	2042.4	2008.7	1969.5	1920.8	1872.0	1814.9	1771.6
12.5°	2264.2	2275.3	2269.7	2251.6	2223.8	2172.5	2103.1	2049.4	2004.5	1909.5	1871.1
15°	2508.3	2550.2	2523.5	2461.5	2463.0	2414.2	2323.4	2223.8	2170.9	2087.7	1974.4
17.5°	2768.3	2773.6	2762.2	2710.6	2676.2	2609.2	2525.5	2429.9	2322.8	2222.1	2101.9
20°	2906.9	2902.8	2878.7	2851.9	2792.8	2740.6	2649.2	2542.6	2405.2	2306.2	2175.0
22.5°	2983.8	2977.0	2965.6	2943.2	2894.0	2837.9	2755.8	2639.4	2508.6	2372.3	2220.6
25°	2977.0	2985.9	2987.3	2981.1	2964.0	2930.2	2865.6	2772.9	2642.3	2467.1	2309.1
27.5°	2707.5	2720.3	2756.9	2789.6	2825.9	2863.1	2858.1	2812.1	2715.4	2564.0	2370.9
30°	2438.2	2410.7	2478.7	2564.7	2623.0	2726.1	2783.9	2787.3	2733.0	2603.1	2414.8
32.5°	2064.4	2094.6	2124.7	2230.4	2358.0	2473.8	2588.7	2681.2	2691.8	2605.4	2440.6
35°	1604.0	1641.7	1696.7	1751.7	1889.2	2007.3	2209.4	2385.3	2525.5	2544.1	2443.0
37.5°	1292.5	1311.2	1345.9	1401.1	1491.0	1631.1	1787.5	2009.8	2212.9	2364.0	2370.6
40°	1129.7	1135.3	1174.5	1216.4	1289.2	1404.6	1545.5	1742.0	1985.3	2196.4	2284.3
42.5°	1007.7	1019.8	1036.4	1076.7	1134.7	1221.5	1352.5	1515.0	1738.0	1980.7	2152.8
45°	865.9	879.6	889.9	916.8	958.0	1016.3	1107.8	1256.2	1425.9	1676.8	1908.3
47.5°	772.1	773.3	780.9	801.1	829.2	873.0	937.7	1033.0	1188.8	1392.3	1630.0
50°	705.1	716.1	718.8	734.6	756.6	788.9	842.5	923.6	1051.5	1230.1	1448.7
52.5°	657.8	661.1	668.8	680.2	699.4	724.6	771.0	834.6	934.8	1087.1	1288.1
55°	588.2	588.2	595.8	604.7	615.7	638.4	669.3	716.1	792.3	910.6	1076.8
57.5°	523.9	527.4	532.7	535.4	544.8	559.8	585.6	621.1	678.0	769.0	901.2
60°	481.0	487.3	486.6	492.0	500.3	512.0	533.9	562.8	613.7	686.5	797.9
62.5°	443.6	443.2	443.1	449.7	458.0	469.1	483.4	508.4	551.6	616.1	710.9
65°	382.1	380.7	385.6	389.6	392.4	400.6	411.6	433.6	462.5	510.6	584.1
67.5°	327.4	323.4	326.0	327.4	332.0	338.5	348.8	362.4	385.4	424.0	479.4
70°	290.0	286.6	285.9	287.2	291.3	296.2	303.8	316.8	338.1	369.0	409.6
72.5°	251.6	249.1	249.0	252.1	254.0	257.1	262.5	274.5	291.3	314.6	352.4
75°	196.5	196.5	196.5	197.2	199.2	202.1	206.1	212.4	225.4	241.9	267.3
77.5°	147.3	147.2	146.3	146.2	149.3	150.5	151.5	157.2	164.5	175.6	194.2
80°	115.4	112.0	113.4	115.4	116.8	117.5	119.6	121.0	127.1	133.3	146.3
82.5°	85.7	82.9	83.1	86.3	86.5	87.3	89.4	91.3	93.6	99.3	106.2
85°	45.3	45.3	46.0	46.0	46.8	46.0	48.1	48.8	48.8	52.2	56.4
87.5°	23.3	22.4	22.7	23.0	22.7	22.8	23.1	23.4	23.7	24.5	24.4
90°	34.0	35.2	34.0	32.8	34.0	31.7	30.5	29.3	28.2	29.3	25.9
92.5°	56.6	58.7	57.5	61.0	63.1	69.2	78.4	98.8	136.1	180.5	198.5
95°	136.1	140.8	149.1	159.6	181.9	224.1	286.3	422.4	564.3	695.8	619.6
97.5°	370.5	380.6	412.3	465.1	551.7	692.1	843.3	1052.9	1153.6	1078.2	789.4
100°	735.7	734.5	780.2	865.9	984.4	1151.0	1288.3	1383.3	1342.3	1111.2	750.9
102.5°	1079.2	1106.2	1144.5	1212.2	1304.4	1410.1	1490.1	1493.2	1351.6	1050.2	694.6
105°	1492.5	1498.3	1535.9	1580.4	1634.5	1665.0	1642.6	1525.3	1280.1	943.3	625.4
107.5°	1730.4	1741.2	1753.8	1768.9	1768.0	1726.2	1623.4	1432.8	1154.8	849.0	581.3
110°	1828.1	1830.4	1832.7	1823.3	1790.5	1708.4	1560.5	1344.6	1075.9	795.5	564.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1847.8	1847.2	1838.4	1809.3	1749.2	1643.6	1477.9	1257.3	1007.4	759.8	555.0
115°	1815.1	1809.3	1785.7	1734.1	1646.2	1518.2	1345.7	1141.7	924.5	721.5	551.5
117.5°	1711.4	1703.4	1669.6	1610.5	1518.7	1389.0	1234.1	1057.8	874.5	699.0	553.6
120°	1625.1	1618.0	1589.8	1524.1	1431.5	1312.9	1172.2	1013.7	848.3	688.7	557.3
122.5°	1544.3	1535.4	1504.4	1445.3	1362.9	1252.8	1122.4	979.0	826.7	682.2	563.9
125°	1431.5	1423.2	1393.9	1342.3	1267.2	1173.3	1060.7	932.8	799.0	673.5	573.7
127.5°	1338.5	1331.0	1304.4	1260.4	1193.5	1108.0	1006.4	892.4	774.7	669.2	585.0
130°	1286.0	1276.6	1251.9	1209.7	1147.5	1067.7	972.7	867.1	761.4	666.4	592.5
132.5°	1234.4	1227.8	1205.9	1163.7	1105.3	1029.3	940.8	843.6	749.3	665.5	598.1
135°	1160.4	1152.2	1131.0	1095.9	1038.3	971.5	895.2	811.9	733.4	664.1	606.6
137.5°	1082.3	1076.8	1059.0	1023.4	975.0	917.1	851.3	783.0	719.4	661.5	612.3
140°	1027.8	1029.0	1010.3	977.3	932.8	882.3	826.0	766.2	711.0	660.6	616.0
142.5°	977.1	978.3	961.4	932.3	894.3	850.4	801.6	750.2	703.5	658.7	618.8
145°	907.0	904.6	895.2	870.6	841.2	807.3	769.7	730.9	693.5	655.9	620.7
147.5°	849.2	848.3	839.4	822.7	800.4	776.3	746.0	715.3	683.6	651.5	620.7
150°	815.5	815.5	808.4	795.5	777.9	755.6	730.9	704.0	677.0	647.6	620.7
152.5°	787.3	787.3	783.0	771.1	757.3	738.7	716.9	693.7	669.5	643.0	617.8
155°	752.0	750.9	748.6	739.2	728.6	714.6	696.9	678.1	658.2	634.8	614.8
157.5°	719.9	720.1	718.3	711.2	702.1	691.1	677.5	661.8	645.5	627.5	610.9
160°	699.3	700.4	700.4	693.5	685.2	677.0	665.3	652.4	637.1	621.9	608.9
162.5°	680.5	681.7	681.7	675.6	670.1	662.9	652.2	641.1	628.6	616.2	605.2
165°	655.9	655.9	657.0	652.4	647.6	641.8	633.6	626.5	617.1	607.7	599.6
167.5°	632.4	632.4	633.6	630.3	628.2	624.0	619.2	613.9	606.1	599.4	593.9
170°	618.3	618.3	619.6	617.1	616.0	613.6	608.9	605.4	599.6	593.7	590.2
172.5°	605.2	606.1	608.2	605.9	605.6	604.3	600.5	597.9	593.0	589.0	587.3
175°	590.2	591.4	592.5	591.4	591.4	591.4	589.0	587.8	585.5	583.1	583.1
177.5°	581.5	581.5	583.4	582.4	583.4	583.4	582.4	581.5	580.6	579.7	580.6
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1462.4	1457.9	1453.6	1445.9	1439.3	1430.0	1427.1	1423.9	1414.0	1405.2	1398.6
5°	1551.7	1535.2	1511.2	1489.1	1471.3	1447.2	1433.5	1419.1	1398.5	1379.9	1364.8
7.5°	1645.2	1612.8	1575.4	1534.9	1497.3	1461.0	1431.7	1405.6	1376.7	1349.4	1328.1
10°	1719.4	1672.6	1620.4	1564.1	1516.0	1469.3	1430.1	1395.7	1358.6	1326.3	1299.5
12.5°	1804.0	1734.7	1662.7	1594.3	1537.4	1472.6	1425.1	1381.4	1339.4	1300.5	1270.4
15°	1904.2	1816.2	1731.1	1636.9	1550.3	1469.3	1412.9	1358.0	1309.1	1269.3	1230.8
17.5°	1995.5	1895.8	1783.5	1669.1	1564.6	1468.4	1389.6	1327.4	1266.4	1217.6	1179.2
20°	2047.2	1933.8	1806.6	1687.8	1572.4	1465.1	1378.6	1304.3	1238.3	1186.8	1143.5
22.5°	2091.7	1959.0	1827.6	1700.4	1571.8	1456.3	1358.2	1281.8	1210.3	1159.8	1113.8
25°	2137.9	1979.1	1847.2	1698.1	1554.5	1434.9	1324.9	1238.3	1166.9	1107.8	1060.4
27.5°	2177.5	1977.8	1821.2	1660.8	1527.2	1407.3	1290.0	1197.1	1121.3	1057.0	1009.0
30°	2203.8	1980.5	1794.3	1635.6	1500.9	1377.2	1263.0	1169.6	1089.9	1024.6	979.3
32.5°	2220.4	1978.8	1769.6	1600.3	1459.1	1349.7	1234.0	1137.2	1055.3	991.1	947.4
35°	2230.0	1966.8	1727.0	1527.6	1391.6	1285.1	1188.2	1087.8	1002.0	942.2	892.7
37.5°	2210.7	1941.4	1677.5	1457.5	1308.6	1203.7	1122.2	1036.7	954.5	888.7	846.1
40°	2180.5	1924.9	1639.0	1408.1	1251.4	1150.3	1081.0	997.1	916.0	853.5	813.6
42.5°	2122.7	1891.3	1596.7	1353.1	1192.0	1091.0	1027.1	957.0	880.3	821.6	781.7
45°	1981.9	1818.4	1533.2	1270.6	1104.3	999.9	943.5	892.7	823.2	766.2	731.8
47.5°	1786.5	1708.5	1441.4	1183.7	1012.8	912.3	853.7	812.8	762.1	716.1	683.1
50°	1650.6	1618.4	1379.2	1124.3	951.8	853.5	797.2	760.0	723.7	677.6	647.3
52.5°	1494.0	1513.9	1306.7	1062.7	889.7	793.0	740.0	710.5	677.4	639.6	613.3
55°	1273.4	1345.5	1181.3	959.4	797.2	705.1	654.9	628.7	609.6	581.4	558.7
57.5°	1066.8	1158.6	1045.8	852.8	706.3	626.8	578.8	550.3	538.0	523.2	505.3
60°	944.2	1034.9	949.1	781.3	645.3	569.7	527.0	503.0	490.7	480.4	465.2
62.5°	834.9	926.7	854.4	708.8	585.3	515.2	478.2	454.6	445.0	439.7	426.8
65°	684.5	763.5	715.4	595.8	499.6	437.8	404.0	387.6	378.7	376.6	368.3
67.5°	557.0	617.2	582.2	494.2	418.5	365.1	336.5	322.4	315.6	314.9	308.7
70°	473.5	529.9	503.0	423.3	358.0	316.1	291.3	279.0	274.9	274.2	270.7
72.5°	408.6	447.9	426.6	360.1	309.6	271.6	253.5	240.5	235.8	236.8	234.5
75°	302.4	331.9	319.5	273.5	233.0	208.2	193.1	184.9	180.8	182.8	180.1
77.5°	217.5	236.3	225.1	193.3	168.2	150.4	139.3	134.1	130.5	130.3	129.1
80°	164.2	175.2	169.1	149.8	129.2	114.1	105.1	101.7	99.7	99.0	98.3
82.5°	116.9	126.3	119.1	105.8	91.8	82.7	77.7	73.1	71.6	72.0	71.3
85°	59.1	62.5	59.8	51.5	46.0	41.9	39.2	37.1	35.7	36.5	35.0
87.5°	24.8	24.6	22.3	19.6	18.1	15.7	15.2	13.6	13.0	13.5	13.6
90°	22.3	18.8	15.2	12.9	10.6	7.1	4.6	2.3	4.6	7.1	10.6
92.5°	149.1	98.6	67.9	50.5	40.6	31.4	21.6	14.5	21.6	31.4	40.6
95°	427.1	252.3	152.5	106.7	76.2	56.4	43.4	39.9	43.4	56.4	76.2
97.5°	468.6	271.6	176.2	126.7	96.6	79.3	69.2	68.1	69.2	79.3	96.6
100°	442.3	268.7	186.5	140.8	112.6	96.2	88.0	86.8	88.0	96.2	112.6
102.5°	419.8	272.5	198.7	156.7	131.4	115.9	108.7	106.5	108.7	115.9	131.4
105°	403.6	282.8	219.4	183.0	160.8	146.6	139.7	136.1	139.7	146.6	160.8
107.5°	402.4	302.1	246.4	212.6	191.7	177.8	171.1	167.5	171.1	177.8	191.7
110°	407.2	318.0	265.2	232.3	212.4	199.4	193.6	190.1	193.6	199.4	212.4





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	416.6	334.0	284.9	253.0	233.0	220.2	214.3	210.8	214.3	220.2	233.0
115°	431.8	360.2	315.6	284.0	264.0	252.3	245.2	240.5	245.2	252.3	264.0
117.5°	451.9	388.1	344.1	314.7	292.4	281.6	275.7	270.3	275.7	281.6	292.4
120°	467.0	406.0	363.8	334.4	312.1	300.3	294.5	290.9	294.5	300.3	312.1
122.5°	481.1	424.7	383.4	352.2	330.8	318.2	312.4	308.8	312.4	318.2	330.8
125°	503.3	451.7	410.6	379.0	356.7	343.8	336.8	334.4	336.8	343.8	356.7
127.5°	521.7	475.1	435.6	403.8	379.2	366.1	357.4	353.9	357.4	366.1	379.2
130°	533.8	489.3	450.5	418.9	394.3	380.1	369.6	366.1	369.6	380.1	394.3
132.5°	545.1	501.5	463.7	432.9	408.3	391.4	379.9	375.5	379.9	391.4	408.3
135°	559.7	519.8	483.4	451.7	427.1	409.5	396.6	391.9	396.6	409.5	427.1
137.5°	570.5	532.4	497.5	468.2	443.7	425.0	412.3	407.4	412.3	425.0	443.7
140°	576.1	540.9	506.9	477.6	454.0	435.3	423.5	417.7	423.5	435.3	454.0
142.5°	581.7	547.4	514.4	487.0	463.4	446.6	433.9	429.0	433.9	446.6	463.4
145°	587.8	556.1	525.6	498.7	478.7	461.1	450.5	447.1	450.5	461.1	478.7
147.5°	591.6	563.2	535.2	512.3	493.0	477.8	467.5	465.3	467.5	477.8	493.0
150°	592.5	567.8	540.9	519.8	503.3	488.1	478.7	477.6	478.7	488.1	503.3
152.5°	594.4	570.7	547.4	527.3	512.7	499.4	490.0	489.8	490.0	499.4	512.7
155°	594.9	576.1	556.1	539.7	526.8	515.1	508.1	508.1	508.1	515.1	526.8
157.5°	596.0	579.2	563.2	550.5	539.5	529.2	523.5	522.6	523.5	529.2	539.5
160°	596.0	582.0	567.8	556.1	548.0	538.6	533.8	533.8	533.8	538.6	548.0
162.5°	595.1	582.9	570.7	560.9	553.6	546.0	542.3	542.3	542.3	546.0	553.6
165°	592.5	584.3	574.9	566.7	562.0	556.1	553.8	555.0	553.8	556.1	562.0
167.5°	590.7	584.1	577.2	572.1	568.9	564.3	563.2	564.6	563.2	564.3	568.9
170°	587.8	583.1	577.2	574.9	572.6	569.1	567.8	570.3	567.8	569.1	572.6
172.5°	586.9	583.1	578.2	576.8	575.4	572.8	572.6	574.0	572.6	572.8	575.4
175°	584.3	582.0	579.7	578.5	578.5	576.1	577.2	578.5	577.2	576.1	578.5
177.5°	582.4	580.6	579.7	579.7	579.7	578.7	579.7	580.6	579.7	578.7	579.7
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



TEST NUMBER: P332038-840

CATALOG NUMBER: S123DIP-S1000D1195U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1394.7	1390.9	1385.4	1377.2	1370.6	1360.1	1360.1	1361.8	1361.8	1361.2	1360.1
5°	1352.4	1342.1	1329.8	1315.3	1300.2	1285.1	1282.3	1276.9	1272.7	1269.9	1266.5
7.5°	1307.8	1289.5	1271.4	1251.2	1232.8	1217.6	1207.0	1198.2	1192.5	1186.5	1182.1
10°	1277.5	1254.9	1233.6	1212.2	1188.8	1170.3	1158.6	1150.3	1144.2	1138.7	1136.0
12.5°	1241.7	1215.8	1192.3	1172.0	1146.5	1127.4	1116.3	1112.5	1105.2	1093.6	1087.5
15°	1189.5	1165.5	1137.3	1106.4	1094.0	1070.7	1057.6	1051.5	1047.3	1038.3	1035.6
17.5°	1144.9	1113.4	1081.8	1058.7	1035.7	1016.8	1009.5	1001.8	996.3	989.1	986.8
20°	1109.1	1081.0	1052.1	1027.3	1003.3	982.7	976.5	971.0	965.5	962.1	959.4
22.5°	1072.9	1044.7	1020.8	997.6	972.0	958.5	951.8	945.7	941.9	939.6	936.8
25°	1021.9	997.1	970.4	949.7	929.1	920.2	916.0	912.6	909.9	906.5	905.7
27.5°	976.2	949.3	927.6	908.4	893.5	886.1	882.1	880.4	881.0	882.2	883.0
30°	942.2	917.5	899.6	883.0	869.3	862.4	861.7	861.7	864.5	865.2	866.6
32.5°	910.8	890.5	872.6	856.7	846.3	841.5	844.1	844.1	846.4	848.2	850.6
35°	865.2	847.3	833.5	819.8	810.9	812.9	814.4	815.7	819.1	823.2	826.1
37.5°	821.6	806.1	791.8	781.0	777.0	780.6	784.0	786.9	790.8	794.0	796.8
40°	790.3	778.6	764.9	755.3	756.6	758.7	761.4	764.9	768.3	770.3	773.2
42.5°	761.1	748.9	738.5	730.5	732.5	735.1	736.7	738.5	742.5	746.2	747.8
45°	716.8	707.1	697.5	692.7	694.1	695.5	696.8	698.9	702.4	705.1	705.8
47.5°	666.8	660.1	653.7	649.0	651.2	650.7	652.5	656.8	657.9	659.5	663.4
50°	635.0	628.7	621.3	619.9	619.9	619.9	620.6	626.0	626.0	628.7	631.6
52.5°	599.8	595.8	591.0	588.5	587.4	587.4	590.3	593.1	594.2	598.0	600.8
55°	547.8	543.6	539.5	537.3	536.0	537.3	542.9	544.2	547.8	549.8	551.8
57.5°	493.4	490.3	487.0	485.8	485.5	487.4	490.4	494.5	495.3	501.7	504.8
60°	457.7	452.8	450.1	450.1	448.8	454.9	453.5	460.4	461.8	466.0	470.7
62.5°	420.8	414.3	413.2	413.2	415.3	417.0	418.9	421.9	425.6	430.7	434.4
65°	361.4	358.0	362.8	362.1	360.8	364.9	364.9	368.3	372.4	377.3	384.9
67.5°	305.3	303.5	303.9	303.9	306.0	308.3	310.2	313.3	318.2	323.3	328.2
70°	267.3	269.4	266.0	268.7	270.7	271.5	272.9	276.9	282.5	285.9	291.3
72.5°	230.5	230.4	230.8	231.9	233.9	235.2	236.5	241.3	247.2	250.1	254.6
75°	177.3	176.6	178.6	178.6	182.1	183.5	184.9	186.9	192.4	196.5	200.0
77.5°	129.5	130.3	129.9	132.2	131.3	131.5	135.8	137.8	138.5	146.5	148.3
80°	97.6	99.0	99.7	100.4	101.0	99.7	104.4	106.5	106.5	111.3	114.7
82.5°	70.1	70.9	72.7	73.4	73.5	74.9	75.3	76.9	78.5	80.6	85.0
85°	35.0	37.1	37.8	37.1	37.8	36.5	38.5	39.2	39.9	39.9	39.9
87.5°	13.5	14.6	14.7	16.0	16.2	17.4	17.2	16.4	16.6	18.5	16.7
90°	12.9	15.2	18.8	22.3	25.9	29.3	28.2	29.3	30.5	31.7	34.0
92.5°	50.5	67.9	98.6	149.1	198.5	180.5	136.1	98.8	78.4	69.2	63.1
95°	106.7	152.5	252.3	427.1	619.6	695.8	564.3	422.4	286.3	224.1	181.9
97.5°	126.7	176.2	271.6	468.6	789.4	1078.2	1153.6	1052.9	843.3	692.1	551.7
100°	140.8	186.5	268.7	442.3	750.9	1111.2	1342.3	1383.3	1288.3	1151.0	984.4
102.5°	156.7	198.7	272.5	419.8	694.6	1050.2	1351.6	1493.2	1490.1	1410.1	1304.4
105°	183.0	219.4	282.8	403.6	625.4	943.3	1280.1	1525.3	1642.6	1665.0	1634.5
107.5°	212.6	246.4	302.1	402.4	581.3	849.0	1154.8	1432.8	1623.4	1726.2	1768.0
110°	232.3	265.2	318.0	407.2	564.3	795.5	1075.9	1344.6	1560.5	1708.4	1790.5



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	253.0	284.9	334.0	416.6	555.0	759.8	1007.4	1257.3	1477.9	1643.6	1749.2
115°	284.0	315.6	360.2	431.8	551.5	721.5	924.5	1141.7	1345.7	1518.2	1646.2
117.5°	314.7	344.1	388.1	451.9	553.6	699.0	874.5	1057.8	1234.1	1389.0	1518.7
120°	334.4	363.8	406.0	467.0	557.3	688.7	848.3	1013.7	1172.2	1312.9	1431.5
122.5°	352.2	383.4	424.7	481.1	563.9	682.2	826.7	979.0	1122.4	1252.8	1362.9
125°	379.0	410.6	451.7	503.3	573.7	673.5	799.0	932.8	1060.7	1173.3	1267.2
127.5°	403.8	435.6	475.1	521.7	585.0	669.2	774.7	892.4	1006.4	1108.0	1193.5
130°	418.9	450.5	489.3	533.8	592.5	666.4	761.4	867.1	972.7	1067.7	1147.5
132.5°	432.9	463.7	501.5	545.1	598.1	665.5	749.3	843.6	940.8	1029.3	1105.3
135°	451.7	483.4	519.8	559.7	606.6	664.1	733.4	811.9	895.2	971.5	1038.3
137.5°	468.2	497.5	532.4	570.5	612.3	661.5	719.4	783.0	851.3	917.1	975.0
140°	477.6	506.9	540.9	576.1	616.0	660.6	711.0	766.2	826.0	882.3	932.8
142.5°	487.0	514.4	547.4	581.7	618.8	658.7	703.5	750.2	801.6	850.4	894.3
145°	498.7	525.6	556.1	587.8	620.7	655.9	693.5	730.9	769.7	807.3	841.2
147.5°	512.3	535.2	563.2	591.6	620.7	651.5	683.6	715.3	746.0	776.3	800.4
150°	519.8	540.9	567.8	592.5	620.7	647.6	677.0	704.0	730.9	755.6	777.9
152.5°	527.3	547.4	570.7	594.4	617.8	643.0	669.5	693.7	716.9	738.7	757.3
155°	539.7	556.1	576.1	594.9	614.8	634.8	658.2	678.1	696.9	714.6	728.6
157.5°	550.5	563.2	579.2	596.0	610.9	627.5	645.5	661.8	677.5	691.1	702.1
160°	556.1	567.8	582.0	596.0	608.9	621.9	637.1	652.4	665.3	677.0	685.2
162.5°	560.9	570.7	582.9	595.1	605.2	616.2	628.6	641.1	652.2	662.9	670.1
165°	566.7	574.9	584.3	592.5	599.6	607.7	617.1	626.5	633.6	641.8	647.6
167.5°	572.1	577.2	584.1	590.7	593.9	599.4	606.1	613.9	619.2	624.0	628.2
170°	574.9	577.2	583.1	587.8	590.2	593.7	599.6	605.4	608.9	613.6	616.0
172.5°	576.8	578.2	583.1	586.9	587.3	589.0	593.0	597.9	600.5	604.3	605.6
175°	578.5	579.7	582.0	584.3	583.1	583.1	585.5	587.8	589.0	591.4	591.4
177.5°	579.7	579.7	580.6	582.4	580.6	579.7	580.6	581.5	582.4	583.4	583.4
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



TEST NUMBER: P332038-840

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1356.2	1355.7	1359.6	1356.9	1359.6	1355.7	1356.2	1360.1	1361.2	1361.8	1361.8
5°	1262.4	1264.5	1257.6	1257.6	1257.6	1264.5	1262.4	1266.5	1269.9	1272.7	1276.9
7.5°	1178.8	1175.8	1176.1	1172.4	1176.1	1175.8	1178.8	1182.1	1186.5	1192.5	1198.2
10°	1127.7	1123.6	1122.2	1122.9	1122.2	1123.6	1127.7	1136.0	1138.7	1144.2	1150.3
12.5°	1085.4	1084.6	1075.5	1075.6	1075.5	1084.6	1085.4	1087.5	1093.6	1105.2	1112.5
15°	1035.6	1022.6	1021.2	1025.3	1021.2	1022.6	1035.6	1035.6	1038.3	1047.3	1051.5
17.5°	985.7	978.9	979.3	977.2	979.3	978.9	985.7	986.8	989.1	996.3	1001.8
20°	959.4	955.2	954.5	949.7	954.5	955.2	959.4	959.4	962.1	965.5	971.0
22.5°	935.1	933.8	934.2	928.9	934.2	933.8	935.1	936.8	939.6	941.9	945.7
25°	905.0	908.5	905.7	905.7	905.7	908.5	905.0	905.7	906.5	909.9	912.6
27.5°	884.7	884.5	883.2	883.2	883.2	884.5	884.7	883.0	882.2	881.0	880.4
30°	869.3	868.6	870.0	870.0	870.0	868.6	869.3	866.6	865.2	864.5	861.7
32.5°	853.9	854.9	855.2	855.7	855.2	854.9	853.9	850.6	848.2	846.4	844.1
35°	830.1	830.8	832.9	831.5	832.9	830.8	830.1	826.1	823.2	819.1	815.7
37.5°	798.0	801.1	800.4	801.5	800.4	801.1	798.0	796.8	794.0	790.8	786.9
40°	773.8	775.9	775.2	775.2	775.2	775.9	773.8	773.2	770.3	768.3	764.9
42.5°	749.0	750.5	748.8	747.7	748.8	750.5	749.0	747.8	746.2	742.5	738.5
45°	708.5	707.1	709.2	706.4	709.2	707.1	708.5	705.8	705.1	702.4	698.9
47.5°	663.2	664.5	665.1	667.1	665.1	664.5	663.2	663.4	659.5	657.9	656.8
50°	632.9	637.0	637.0	636.3	637.0	637.0	632.9	631.6	628.7	626.0	626.0
52.5°	603.2	605.1	607.9	607.7	607.9	605.1	603.2	600.8	598.0	594.2	593.1
55°	557.3	558.7	560.1	560.8	560.1	558.7	557.3	551.8	549.8	547.8	544.2
57.5°	509.8	509.2	512.5	513.5	512.5	509.2	509.8	504.8	501.7	495.3	494.5
60°	476.3	476.3	481.7	483.8	481.7	476.3	476.3	470.7	466.0	461.8	460.4
62.5°	440.5	442.7	448.2	445.4	448.2	442.7	440.5	434.4	430.7	425.6	421.9
65°	388.3	393.7	393.0	395.9	393.0	393.7	388.3	384.9	377.3	372.4	368.3
67.5°	333.7	337.1	342.0	342.5	342.0	337.1	333.7	328.2	323.3	318.2	313.3
70°	296.9	300.3	303.1	305.1	303.1	300.3	296.9	291.3	285.9	282.5	276.9
72.5°	261.2	263.0	269.5	266.6	269.5	263.0	261.2	254.6	250.1	247.2	241.3
75°	204.8	209.5	213.7	211.7	213.7	209.5	204.8	200.0	196.5	192.4	186.9
77.5°	151.5	156.2	158.1	156.4	158.1	156.2	151.5	148.3	146.5	138.5	137.8
80°	119.6	118.9	123.0	122.3	123.0	118.9	119.6	114.7	111.3	106.5	106.5
82.5°	87.7	87.1	89.0	89.4	89.0	87.1	87.7	85.0	80.6	78.5	76.9
85°	42.6	44.6	41.9	41.2	41.9	44.6	42.6	39.9	39.9	39.9	39.2
87.5°	16.5	16.7	16.4	15.6	16.4	16.7	16.5	16.7	18.5	16.6	16.4
90°	32.8	34.0	35.2	34.0	35.2	34.0	32.8	34.0	31.7	30.5	29.3
92.5°	61.0	57.5	58.7	56.6	58.7	57.5	61.0	63.1	69.2	78.4	98.8
95°	159.6	149.1	140.8	136.1	140.8	149.1	159.6	181.9	224.1	286.3	422.4
97.5°	465.1	412.3	380.6	370.5	380.6	412.3	465.1	551.7	692.1	843.3	1052.9
100°	865.9	780.2	734.5	735.7	734.5	780.2	865.9	984.4	1151.0	1288.3	1383.3
102.5°	1212.2	1144.5	1106.2	1079.2	1106.2	1144.5	1212.2	1304.4	1410.1	1490.1	1493.2
105°	1580.4	1535.9	1498.3	1492.5	1498.3	1535.9	1580.4	1634.5	1665.0	1642.6	1525.3
107.5°	1768.9	1753.8	1741.2	1730.4	1741.2	1753.8	1768.9	1768.0	1726.2	1623.4	1432.8
110°	1823.3	1832.7	1830.4	1828.1	1830.4	1832.7	1823.3	1790.5	1708.4	1560.5	1344.6



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1809.3	1838.4	1847.2	1847.8	1847.2	1838.4	1809.3	1749.2	1643.6	1477.9	1257.3
115°	1734.1	1785.7	1809.3	1815.1	1809.3	1785.7	1734.1	1646.2	1518.2	1345.7	1141.7
117.5°	1610.5	1669.6	1703.4	1711.4	1703.4	1669.6	1610.5	1518.7	1389.0	1234.1	1057.8
120°	1524.1	1589.8	1618.0	1625.1	1618.0	1589.8	1524.1	1431.5	1312.9	1172.2	1013.7
122.5°	1445.3	1504.4	1535.4	1544.3	1535.4	1504.4	1445.3	1362.9	1252.8	1122.4	979.0
125°	1342.3	1393.9	1423.2	1431.5	1423.2	1393.9	1342.3	1267.2	1173.3	1060.7	932.8
127.5°	1260.4	1304.4	1331.0	1338.5	1331.0	1304.4	1260.4	1193.5	1108.0	1006.4	892.4
130°	1209.7	1251.9	1276.6	1286.0	1276.6	1251.9	1209.7	1147.5	1067.7	972.7	867.1
132.5°	1163.7	1205.9	1227.8	1234.4	1227.8	1205.9	1163.7	1105.3	1029.3	940.8	843.6
135°	1095.9	1131.0	1152.2	1160.4	1152.2	1131.0	1095.9	1038.3	971.5	895.2	811.9
137.5°	1023.4	1059.0	1076.8	1082.3	1076.8	1059.0	1023.4	975.0	917.1	851.3	783.0
140°	977.3	1010.3	1029.0	1027.8	1029.0	1010.3	977.3	932.8	882.3	826.0	766.2
142.5°	932.3	961.4	978.3	977.1	978.3	961.4	932.3	894.3	850.4	801.6	750.2
145°	870.6	895.2	904.6	907.0	904.6	895.2	870.6	841.2	807.3	769.7	730.9
147.5°	822.7	839.4	848.3	849.2	848.3	839.4	822.7	800.4	776.3	746.0	715.3
150°	795.5	808.4	815.5	815.5	815.5	808.4	795.5	777.9	755.6	730.9	704.0
152.5°	771.1	783.0	787.3	787.3	787.3	783.0	771.1	757.3	738.7	716.9	693.7
155°	739.2	748.6	750.9	752.0	750.9	748.6	739.2	728.6	714.6	696.9	678.1
157.5°	711.2	718.3	720.1	719.9	720.1	718.3	711.2	702.1	691.1	677.5	661.8
160°	693.5	700.4	700.4	699.3	700.4	700.4	693.5	685.2	677.0	665.3	652.4
162.5°	675.6	681.7	681.7	680.5	681.7	681.7	675.6	670.1	662.9	652.2	641.1
165°	652.4	657.0	655.9	655.9	655.9	657.0	652.4	647.6	641.8	633.6	626.5
167.5°	630.3	633.6	632.4	632.4	632.4	633.6	630.3	628.2	624.0	619.2	613.9
170°	617.1	619.6	618.3	618.3	618.3	619.6	617.1	616.0	613.6	608.9	605.4
172.5°	605.9	608.2	606.1	605.2	606.1	608.2	605.9	605.6	604.3	600.5	597.9
175°	591.4	592.5	591.4	590.2	591.4	592.5	591.4	591.4	591.4	589.0	587.8
177.5°	582.4	583.4	581.5	581.5	581.5	583.4	582.4	583.4	583.4	582.4	581.5
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1360.1	1360.1	1370.6	1377.2	1385.4	1390.9	1394.7	1398.6	1405.2	1414.0	1423.9
5°	1282.3	1285.1	1300.2	1315.3	1329.8	1342.1	1352.4	1364.8	1379.9	1398.5	1419.1
7.5°	1207.0	1217.6	1232.8	1251.2	1271.4	1289.5	1307.8	1328.1	1349.4	1376.7	1405.6
10°	1158.6	1170.3	1188.8	1212.2	1233.6	1254.9	1277.5	1299.5	1326.3	1358.6	1395.7
12.5°	1116.3	1127.4	1146.5	1172.0	1192.3	1215.8	1241.7	1270.4	1300.5	1339.4	1381.4
15°	1057.6	1070.7	1094.0	1106.4	1137.3	1165.5	1189.5	1230.8	1269.3	1309.1	1358.0
17.5°	1009.5	1016.8	1035.7	1058.7	1081.8	1113.4	1144.9	1179.2	1217.6	1266.4	1327.4
20°	976.5	982.7	1003.3	1027.3	1052.1	1081.0	1109.1	1143.5	1186.8	1238.3	1304.3
22.5°	951.8	958.5	972.0	997.6	1020.8	1044.7	1072.9	1113.8	1159.8	1210.3	1281.8
25°	916.0	920.2	929.1	949.7	970.4	997.1	1021.9	1060.4	1107.8	1166.9	1238.3
27.5°	882.1	886.1	893.5	908.4	927.6	949.3	976.2	1009.0	1057.0	1121.3	1197.1
30°	861.7	862.4	869.3	883.0	899.6	917.5	942.2	979.3	1024.6	1089.9	1169.6
32.5°	844.1	841.5	846.3	856.7	872.6	890.5	910.8	947.4	991.1	1055.3	1137.2
35°	814.4	812.9	810.9	819.8	833.5	847.3	865.2	892.7	942.2	1002.0	1087.8
37.5°	784.0	780.6	777.0	781.0	791.8	806.1	821.6	846.1	888.7	954.5	1036.7
40°	761.4	758.7	756.6	755.3	764.9	778.6	790.3	813.6	853.5	916.0	997.1
42.5°	736.7	735.1	732.5	730.5	738.5	748.9	761.1	781.7	821.6	880.3	957.0
45°	696.8	695.5	694.1	692.7	697.5	707.1	716.8	731.8	766.2	823.2	892.7
47.5°	652.5	650.7	651.2	649.0	653.7	660.1	666.8	683.1	716.1	762.1	812.8
50°	620.6	619.9	619.9	619.9	621.3	628.7	635.0	647.3	677.6	723.7	760.0
52.5°	590.3	587.4	587.4	588.5	591.0	595.8	599.8	613.3	639.6	677.4	710.5
55°	542.9	537.3	536.0	537.3	539.5	543.6	547.8	558.7	581.4	609.6	628.7
57.5°	490.4	487.4	485.5	485.8	487.0	490.3	493.4	505.3	523.2	538.0	550.3
60°	453.5	454.9	448.8	450.1	450.1	452.8	457.7	465.2	480.4	490.7	503.0
62.5°	418.9	417.0	415.3	413.2	413.2	414.3	420.8	426.8	439.7	445.0	454.6
65°	364.9	364.9	360.8	362.1	362.8	358.0	361.4	368.3	376.6	378.7	387.6
67.5°	310.2	308.3	306.0	303.9	303.9	303.5	305.3	308.7	314.9	315.6	322.4
70°	272.9	271.5	270.7	268.7	266.0	269.4	267.3	270.7	274.2	274.9	279.0
72.5°	236.5	235.2	233.9	231.9	230.8	230.4	230.5	234.5	236.8	235.8	240.5
75°	184.9	183.5	182.1	178.6	178.6	176.6	177.3	180.1	182.8	180.8	184.9
77.5°	135.8	131.5	131.3	132.2	129.9	130.3	129.5	129.1	130.3	130.5	134.1
80°	104.4	99.7	101.0	100.4	99.7	99.0	97.6	98.3	99.0	99.7	101.7
82.5°	75.3	74.9	73.5	73.4	72.7	70.9	70.1	71.3	72.0	71.6	73.1
85°	38.5	36.5	37.8	37.1	37.8	37.1	35.0	35.0	36.5	35.7	37.1
87.5°	17.2	17.4	16.2	16.0	14.7	14.6	13.5	13.6	13.5	13.0	13.6
90°	28.2	29.3	25.9	22.3	18.8	15.2	12.9	10.6	7.1	4.6	2.3
92.5°	136.1	180.5	198.5	149.1	98.6	67.9	50.5	40.6	31.4	21.6	14.5
95°	564.3	695.8	619.6	427.1	252.3	152.5	106.7	76.2	56.4	43.4	39.9
97.5°	1153.6	1078.2	789.4	468.6	271.6	176.2	126.7	96.6	79.3	69.2	68.1
100°	1342.3	1111.2	750.9	442.3	268.7	186.5	140.8	112.6	96.2	88.0	86.8
102.5°	1351.6	1050.2	694.6	419.8	272.5	198.7	156.7	131.4	115.9	108.7	106.5
105°	1280.1	943.3	625.4	403.6	282.8	219.4	183.0	160.8	146.6	139.7	136.1
107.5°	1154.8	849.0	581.3	402.4	302.1	246.4	212.6	191.7	177.8	171.1	167.5
110°	1075.9	795.5	564.3	407.2	318.0	265.2	232.3	212.4	199.4	193.6	190.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	1007.4	759.8	555.0	416.6	334.0	284.9	253.0	233.0	220.2	214.3	210.8
115°	924.5	721.5	551.5	431.8	360.2	315.6	284.0	264.0	252.3	245.2	240.5
117.5°	874.5	699.0	553.6	451.9	388.1	344.1	314.7	292.4	281.6	275.7	270.3
120°	848.3	688.7	557.3	467.0	406.0	363.8	334.4	312.1	300.3	294.5	290.9
122.5°	826.7	682.2	563.9	481.1	424.7	383.4	352.2	330.8	318.2	312.4	308.8
125°	799.0	673.5	573.7	503.3	451.7	410.6	379.0	356.7	343.8	336.8	334.4
127.5°	774.7	669.2	585.0	521.7	475.1	435.6	403.8	379.2	366.1	357.4	353.9
130°	761.4	666.4	592.5	533.8	489.3	450.5	418.9	394.3	380.1	369.6	366.1
132.5°	749.3	665.5	598.1	545.1	501.5	463.7	432.9	408.3	391.4	379.9	375.5
135°	733.4	664.1	606.6	559.7	519.8	483.4	451.7	427.1	409.5	396.6	391.9
137.5°	719.4	661.5	612.3	570.5	532.4	497.5	468.2	443.7	425.0	412.3	407.4
140°	711.0	660.6	616.0	576.1	540.9	506.9	477.6	454.0	435.3	423.5	417.7
142.5°	703.5	658.7	618.8	581.7	547.4	514.4	487.0	463.4	446.6	433.9	429.0
145°	693.5	655.9	620.7	587.8	556.1	525.6	498.7	478.7	461.1	450.5	447.1
147.5°	683.6	651.5	620.7	591.6	563.2	535.2	512.3	493.0	477.8	467.5	465.3
150°	677.0	647.6	620.7	592.5	567.8	540.9	519.8	503.3	488.1	478.7	477.6
152.5°	669.5	643.0	617.8	594.4	570.7	547.4	527.3	512.7	499.4	490.0	489.8
155°	658.2	634.8	614.8	594.9	576.1	556.1	539.7	526.8	515.1	508.1	508.1
157.5°	645.5	627.5	610.9	596.0	579.2	563.2	550.5	539.5	529.2	523.5	522.6
160°	637.1	621.9	608.9	596.0	582.0	567.8	556.1	548.0	538.6	533.8	533.8
162.5°	628.6	616.2	605.2	595.1	582.9	570.7	560.9	553.6	546.0	542.3	542.3
165°	617.1	607.7	599.6	592.5	584.3	574.9	566.7	562.0	556.1	553.8	555.0
167.5°	606.1	599.4	593.9	590.7	584.1	577.2	572.1	568.9	564.3	563.2	564.6
170°	599.6	593.7	590.2	587.8	583.1	577.2	574.9	572.6	569.1	567.8	570.3
172.5°	593.0	589.0	587.3	586.9	583.1	578.2	576.8	575.4	572.8	572.6	574.0
175°	585.5	583.1	583.1	584.3	582.0	579.7	578.5	578.5	576.1	577.2	578.5
177.5°	580.6	579.7	580.6	582.4	580.6	579.7	579.7	579.7	578.7	579.7	580.6
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1427.1	1430.0	1439.3	1445.9	1453.6	1457.9	1462.4	1465.7	1470.1	1471.2	1487.1
5°	1433.5	1447.2	1471.3	1489.1	1511.2	1535.2	1551.7	1559.2	1579.2	1595.7	1628.7
7.5°	1431.7	1461.0	1497.3	1534.9	1575.4	1612.8	1645.2	1683.6	1711.0	1752.1	1792.6
10°	1430.1	1469.3	1516.0	1564.1	1620.4	1672.6	1719.4	1771.6	1814.9	1872.0	1920.8
12.5°	1425.1	1472.6	1537.4	1594.3	1662.7	1734.7	1804.0	1871.1	1909.5	2004.5	2049.4
15°	1412.9	1469.3	1550.3	1636.9	1731.1	1816.2	1904.2	1974.4	2087.7	2170.9	2223.8
17.5°	1389.6	1468.4	1564.6	1669.1	1783.5	1895.8	1995.5	2101.9	2222.1	2322.8	2429.9
20°	1378.6	1465.1	1572.4	1687.8	1806.6	1933.8	2047.2	2175.0	2306.2	2405.2	2542.6
22.5°	1358.2	1456.3	1571.8	1700.4	1827.6	1959.0	2091.7	2220.6	2372.3	2508.6	2639.4
25°	1324.9	1434.9	1554.5	1698.1	1847.2	1979.1	2137.9	2309.1	2467.1	2642.3	2772.9
27.5°	1290.0	1407.3	1527.2	1660.8	1821.2	1977.8	2177.5	2370.9	2564.0	2715.4	2812.1
30°	1263.0	1377.2	1500.9	1635.6	1794.3	1980.5	2203.8	2414.8	2603.1	2733.0	2787.3
32.5°	1234.0	1349.7	1459.1	1600.3	1769.6	1978.8	2220.4	2440.6	2605.4	2691.8	2681.2
35°	1188.2	1285.1	1391.6	1527.6	1727.0	1966.8	2230.0	2443.0	2544.1	2525.5	2385.3
37.5°	1122.2	1203.7	1308.6	1457.5	1677.5	1941.4	2210.7	2370.6	2364.0	2212.9	2009.8
40°	1081.0	1150.3	1251.4	1408.1	1639.0	1924.9	2180.5	2284.3	2196.4	1985.3	1742.0
42.5°	1027.1	1091.0	1192.0	1353.1	1596.7	1891.3	2122.7	2152.8	1980.7	1738.0	1515.0
45°	943.5	999.9	1104.3	1270.6	1533.2	1818.4	1981.9	1908.3	1676.8	1425.9	1256.2
47.5°	853.7	912.3	1012.8	1183.7	1441.4	1708.5	1786.5	1630.0	1392.3	1188.8	1033.0
50°	797.2	853.5	951.8	1124.3	1379.2	1618.4	1650.6	1448.7	1230.1	1051.5	923.6
52.5°	740.0	793.0	889.7	1062.7	1306.7	1513.9	1494.0	1288.1	1087.1	934.8	834.6
55°	654.9	705.1	797.2	959.4	1181.3	1345.5	1273.4	1076.8	910.6	792.3	716.1
57.5°	578.8	626.8	706.3	852.8	1045.8	1158.6	1066.8	901.2	769.0	678.0	621.1
60°	527.0	569.7	645.3	781.3	949.1	1034.9	944.2	797.9	686.5	613.7	562.8
62.5°	478.2	515.2	585.3	708.8	854.4	926.7	834.9	710.9	616.1	551.6	508.4
65°	404.0	437.8	499.6	595.8	715.4	763.5	684.5	584.1	510.6	462.5	433.6
67.5°	336.5	365.1	418.5	494.2	582.2	617.2	557.0	479.4	424.0	385.4	362.4
70°	291.3	316.1	358.0	423.3	503.0	529.9	473.5	409.6	369.0	338.1	316.8
72.5°	253.5	271.6	309.6	360.1	426.6	447.9	408.6	352.4	314.6	291.3	274.5
75°	193.1	208.2	233.0	273.5	319.5	331.9	302.4	267.3	241.9	225.4	212.4
77.5°	139.3	150.4	168.2	193.3	225.1	236.3	217.5	194.2	175.6	164.5	157.2
80°	105.1	114.1	129.2	149.8	169.1	175.2	164.2	146.3	133.3	127.1	121.0
82.5°	77.7	82.7	91.8	105.8	119.1	126.3	116.9	106.2	99.3	93.6	91.3
85°	39.2	41.9	46.0	51.5	59.8	62.5	59.1	56.4	52.2	48.8	48.8
87.5°	15.2	15.7	18.1	19.6	22.3	24.6	24.8	24.4	24.5	23.7	23.4
90°	4.6	7.1	10.6	12.9	15.2	18.8	22.3	25.9	29.3	28.2	29.3
92.5°	21.6	31.4	40.6	50.5	67.9	98.6	149.1	198.5	180.5	136.1	98.8
95°	43.4	56.4	76.2	106.7	152.5	252.3	427.1	619.6	695.8	564.3	422.4
97.5°	69.2	79.3	96.6	126.7	176.2	271.6	468.6	789.4	1078.2	1153.6	1052.9
100°	88.0	96.2	112.6	140.8	186.5	268.7	442.3	750.9	1111.2	1342.3	1383.3
102.5°	108.7	115.9	131.4	156.7	198.7	272.5	419.8	694.6	1050.2	1351.6	1493.2
105°	139.7	146.6	160.8	183.0	219.4	282.8	403.6	625.4	943.3	1280.1	1525.3
107.5°	171.1	177.8	191.7	212.6	246.4	302.1	402.4	581.3	849.0	1154.8	1432.8
110°	193.6	199.4	212.4	232.3	265.2	318.0	407.2	564.3	795.5	1075.9	1344.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	214.3	220.2	233.0	253.0	284.9	334.0	416.6	555.0	759.8	1007.4	1257.3
115°	245.2	252.3	264.0	284.0	315.6	360.2	431.8	551.5	721.5	924.5	1141.7
117.5°	275.7	281.6	292.4	314.7	344.1	388.1	451.9	553.6	699.0	874.5	1057.8
120°	294.5	300.3	312.1	334.4	363.8	406.0	467.0	557.3	688.7	848.3	1013.7
122.5°	312.4	318.2	330.8	352.2	383.4	424.7	481.1	563.9	682.2	826.7	979.0
125°	336.8	343.8	356.7	379.0	410.6	451.7	503.3	573.7	673.5	799.0	932.8
127.5°	357.4	366.1	379.2	403.8	435.6	475.1	521.7	585.0	669.2	774.7	892.4
130°	369.6	380.1	394.3	418.9	450.5	489.3	533.8	592.5	666.4	761.4	867.1
132.5°	379.9	391.4	408.3	432.9	463.7	501.5	545.1	598.1	665.5	749.3	843.6
135°	396.6	409.5	427.1	451.7	483.4	519.8	559.7	606.6	664.1	733.4	811.9
137.5°	412.3	425.0	443.7	468.2	497.5	532.4	570.5	612.3	661.5	719.4	783.0
140°	423.5	435.3	454.0	477.6	506.9	540.9	576.1	616.0	660.6	711.0	766.2
142.5°	433.9	446.6	463.4	487.0	514.4	547.4	581.7	618.8	658.7	703.5	750.2
145°	450.5	461.1	478.7	498.7	525.6	556.1	587.8	620.7	655.9	693.5	730.9
147.5°	467.5	477.8	493.0	512.3	535.2	563.2	591.6	620.7	651.5	683.6	715.3
150°	478.7	488.1	503.3	519.8	540.9	567.8	592.5	620.7	647.6	677.0	704.0
152.5°	490.0	499.4	512.7	527.3	547.4	570.7	594.4	617.8	643.0	669.5	693.7
155°	508.1	515.1	526.8	539.7	556.1	576.1	594.9	614.8	634.8	658.2	678.1
157.5°	523.5	529.2	539.5	550.5	563.2	579.2	596.0	610.9	627.5	645.5	661.8
160°	533.8	538.6	548.0	556.1	567.8	582.0	596.0	608.9	621.9	637.1	652.4
162.5°	542.3	546.0	553.6	560.9	570.7	582.9	595.1	605.2	616.2	628.6	641.1
165°	553.8	556.1	562.0	566.7	574.9	584.3	592.5	599.6	607.7	617.1	626.5
167.5°	563.2	564.3	568.9	572.1	577.2	584.1	590.7	593.9	599.4	606.1	613.9
170°	567.8	569.1	572.6	574.9	577.2	583.1	587.8	590.2	593.7	599.6	605.4
172.5°	572.6	572.8	575.4	576.8	578.2	583.1	586.9	587.3	589.0	593.0	597.9
175°	577.2	576.1	578.5	578.5	579.7	582.0	584.3	583.1	583.1	585.5	587.8
177.5°	579.7	578.7	579.7	579.7	579.7	580.6	582.4	580.6	579.7	580.6	581.5
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1492.6	1493.2	1499.2	1503.6	1501.4	1504.2	1505.2
5°	1630.7	1655.5	1668.5	1678.2	1678.8	1679.5	1685.1
7.5°	1826.5	1853.1	1872.5	1901.9	1910.7	1920.8	1917.8
10°	1969.5	2008.7	2042.4	2060.2	2079.5	2107.7	2085.0
12.5°	2103.1	2172.5	2223.8	2251.6	2269.7	2275.3	2264.2
15°	2323.4	2414.2	2463.0	2461.5	2523.5	2550.2	2508.3
17.5°	2525.5	2609.2	2676.2	2710.6	2762.2	2773.6	2768.3
20°	2649.2	2740.6	2792.8	2851.9	2878.7	2902.8	2906.9
22.5°	2755.8	2837.9	2894.0	2943.2	2965.6	2977.0	2983.8
25°	2865.6	2930.2	2964.0	2981.1	2987.3	2985.9	2977.0
27.5°	2858.1	2863.1	2825.9	2789.6	2756.9	2720.3	2707.5
30°	2783.9	2726.1	2623.0	2564.7	2478.7	2410.7	2438.2
32.5°	2588.7	2473.8	2358.0	2230.4	2124.7	2094.6	2064.4
35°	2209.4	2007.3	1889.2	1751.7	1696.7	1641.7	1604.0
37.5°	1787.5	1631.1	1491.0	1401.1	1345.9	1311.2	1292.5
40°	1545.5	1404.6	1289.2	1216.4	1174.5	1135.3	1129.7
42.5°	1352.5	1221.5	1134.7	1076.7	1036.4	1019.8	1007.7
45°	1107.8	1016.3	958.0	916.8	889.9	879.6	865.9
47.5°	937.7	873.0	829.2	801.1	780.9	773.3	772.1
50°	842.5	788.9	756.6	734.6	718.8	716.1	705.1
52.5°	771.0	724.6	699.4	680.2	668.8	661.1	657.8
55°	669.3	638.4	615.7	604.7	595.8	588.2	588.2
57.5°	585.6	559.8	544.8	535.4	532.7	527.4	523.9
60°	533.9	512.0	500.3	492.0	486.6	487.3	481.0
62.5°	483.4	469.1	458.0	449.7	443.1	443.2	443.6
65°	411.6	400.6	392.4	389.6	385.6	380.7	382.1
67.5°	348.8	338.5	332.0	327.4	326.0	323.4	327.4
70°	303.8	296.2	291.3	287.2	285.9	286.6	290.0
72.5°	262.5	257.1	254.0	252.1	249.0	249.1	251.6
75°	206.1	202.1	199.2	197.2	196.5	196.5	196.5
77.5°	151.5	150.5	149.3	146.2	146.3	147.2	147.3
80°	119.6	117.5	116.8	115.4	113.4	112.0	115.4
82.5°	89.4	87.3	86.5	86.3	83.1	82.9	85.7
85°	48.1	46.0	46.8	46.0	46.0	45.3	45.3
87.5°	23.1	22.8	22.7	23.0	22.7	22.4	23.3
90°	30.5	31.7	34.0	32.8	34.0	35.2	34.0
92.5°	78.4	69.2	63.1	61.0	57.5	58.7	56.6
95°	286.3	224.1	181.9	159.6	149.1	140.8	136.1
97.5°	843.3	692.1	551.7	465.1	412.3	380.6	370.5
100°	1288.3	1151.0	984.4	865.9	780.2	734.5	735.7
102.5°	1490.1	1410.1	1304.4	1212.2	1144.5	1106.2	1079.2
105°	1642.6	1665.0	1634.5	1580.4	1535.9	1498.3	1492.5
107.5°	1623.4	1726.2	1768.0	1768.9	1753.8	1741.2	1730.4
110°	1560.5	1708.4	1790.5	1823.3	1832.7	1830.4	1828.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1477.9	1643.6	1749.2	1809.3	1838.4	1847.2	1847.8
115°	1345.7	1518.2	1646.2	1734.1	1785.7	1809.3	1815.1
117.5°	1234.1	1389.0	1518.7	1610.5	1669.6	1703.4	1711.4
120°	1172.2	1312.9	1431.5	1524.1	1589.8	1618.0	1625.1
122.5°	1122.4	1252.8	1362.9	1445.3	1504.4	1535.4	1544.3
125°	1060.7	1173.3	1267.2	1342.3	1393.9	1423.2	1431.5
127.5°	1006.4	1108.0	1193.5	1260.4	1304.4	1331.0	1338.5
130°	972.7	1067.7	1147.5	1209.7	1251.9	1276.6	1286.0
132.5°	940.8	1029.3	1105.3	1163.7	1205.9	1227.8	1234.4
135°	895.2	971.5	1038.3	1095.9	1131.0	1152.2	1160.4
137.5°	851.3	917.1	975.0	1023.4	1059.0	1076.8	1082.3
140°	826.0	882.3	932.8	977.3	1010.3	1029.0	1027.8
142.5°	801.6	850.4	894.3	932.3	961.4	978.3	977.1
145°	769.7	807.3	841.2	870.6	895.2	904.6	907.0
147.5°	746.0	776.3	800.4	822.7	839.4	848.3	849.2
150°	730.9	755.6	777.9	795.5	808.4	815.5	815.5
152.5°	716.9	738.7	757.3	771.1	783.0	787.3	787.3
155°	696.9	714.6	728.6	739.2	748.6	750.9	752.0
157.5°	677.5	691.1	702.1	711.2	718.3	720.1	719.9
160°	665.3	677.0	685.2	693.5	700.4	700.4	699.3
162.5°	652.2	662.9	670.1	675.6	681.7	681.7	680.5
165°	633.6	641.8	647.6	652.4	657.0	655.9	655.9
167.5°	619.2	624.0	628.2	630.3	633.6	632.4	632.4
170°	608.9	613.6	616.0	617.1	619.6	618.3	618.3
172.5°	600.5	604.3	605.6	605.9	608.2	606.1	605.2
175°	589.0	591.4	591.4	591.4	592.5	591.4	590.2
177.5°	582.4	583.4	583.4	582.4	583.4	581.5	581.5
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7

(END OF REPORT)