

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: P331974-840

Luminaire Tested: **S123DIP-S775D805U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331974-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S775D805U840-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6081.2 lumens
Efficiency: N/A
Efficacy: 132.5 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

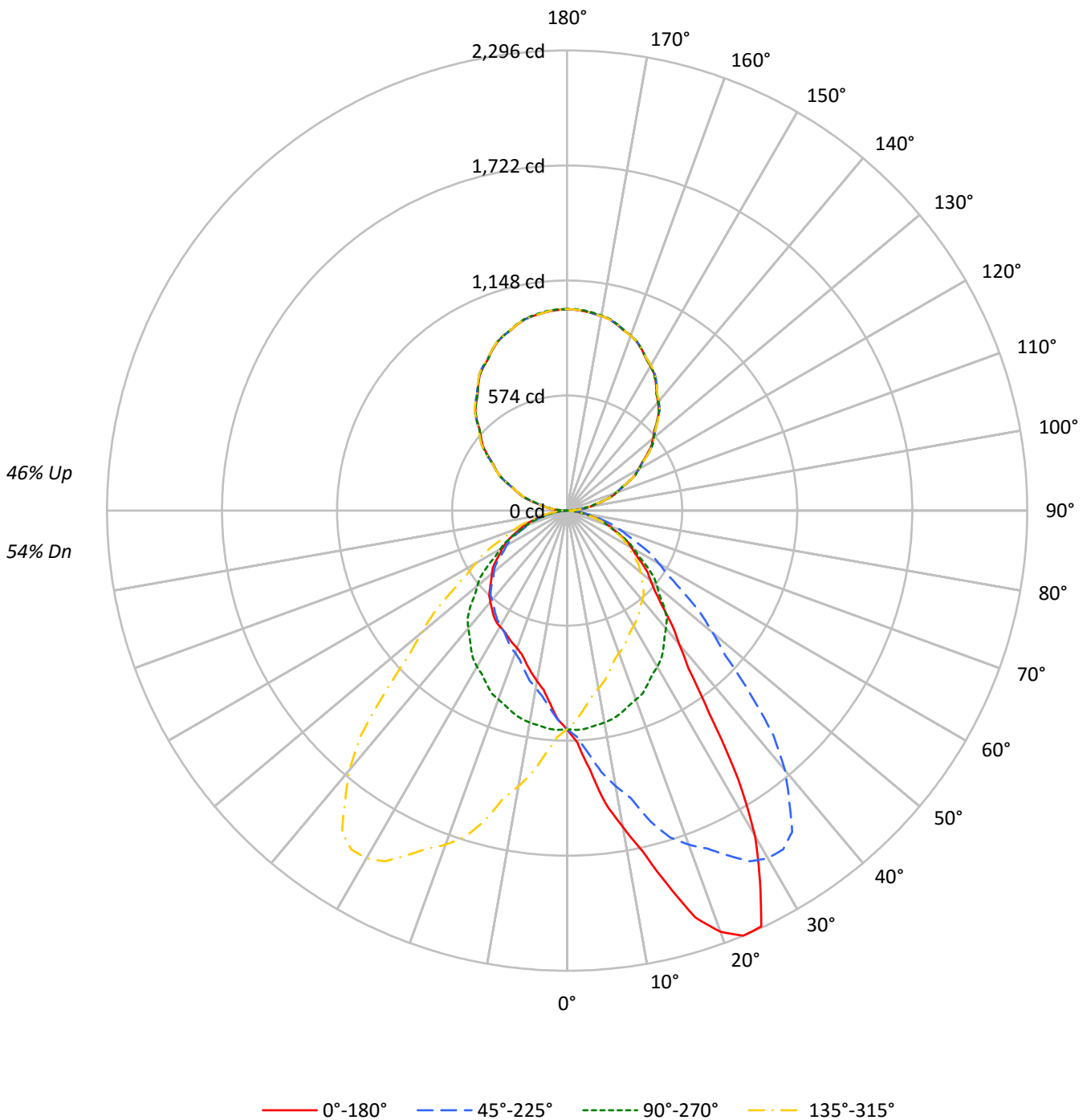
Input Watts (W): 45.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	47	45	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	33
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	32	29
5	70	58	50	44	64	54	47	42	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	42	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	34	55	44	37	32	39	33	29	33	29	25	28	25	22	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11746	11746	11746	11746
5°	14008	11797	10454	11797
10°	17533	11737	9441	11737
15°	21504	11642	8790	11642
20°	25616	11494	8369	11494
25°	27201	11315	8276	11315
30°	23313	11184	8319	11184
35°	16215	10997	8406	10997
40°	12213	10779	8379	10779
45°	10140	10455	8273	10455
50°	9083	9791	8199	9791
55°	8492	9077	8096	9077
60°	7967	8331	8013	8331
65°	7488	7595	7755	7595
70°	7021	6754	7386	6754
75°	6288	5914	6771	5914
80°	5511	4854	5833	4854
85°	4310	3532	3915	3532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	1.8
10°-20°	344.7	5.7
20°-30°	578.5	9.5
30°-40°	655.0	10.8
40°-50°	587.4	9.7
50°-60°	474.0	7.8
60°-70°	330.3	5.4
70°-80°	173.6	2.9
80°-90°	45.4	0.7
90°-100°	65.5	1.1
100°-110°	196.0	3.2
110°-120°	333.3	5.5
120°-130°	438.5	7.2
130°-140°	492.8	8.1
140°-150°	484.4	8.0
150°-160°	407.8	6.7
160°-170°	271.5	4.5
170°-180°	95.1	1.6
0°-30°	1030.6	16.9
0°-40°	1685.7	27.7
0°-60°	2747.1	45.2
0°-90°	3296.4	54.2
90°-120°	594.8	9.8
90°-150°	2010.5	33.1
90°-180°	2785.0	45.8
0°-180°	6081.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1091	1091	1091	1091	1091	
5°	1296	1092	968	1092	1296	134
15°	1930	1045	789	1045	1930	557
25°	2290	953	697	953	2290	1004
35°	1234	837	640	837	1234	802
45°	666	687	544	687	666	527
55°	452	484	431	484	452	406
65°	294	298	304	298	294	293
75°	151	142	163	142	151	162
85°	35	29	32	29	35	42
90°	24	1	24	1	24	13
95°	62	47	62	47	62	63
105°	188	178	188	178	188	199
115°	336	336	336	336	336	333
125°	486	491	486	491	486	434
135°	636	637	636	637	636	489
145°	773	773	773	773	773	482
155°	884	885	884	885	884	407
165°	961	964	961	964	961	271
175°	999	1003	999	1003	999	95
180°	1005	1005	1005	1005	1005	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1158.0	1157.2	1155.1	1156.8	1153.4	1148.7	1148.3	1144.1	1131.8	1130.9	1127.6
5°	1296.4	1292.1	1291.6	1291.0	1283.6	1273.6	1254.6	1252.9	1227.6	1214.9	1199.6
7.5°	1475.4	1477.6	1470.0	1463.2	1440.6	1425.6	1405.2	1379.1	1348.0	1316.4	1295.3
10°	1604.1	1621.4	1599.8	1585.0	1571.2	1545.3	1515.2	1477.6	1440.2	1396.2	1362.9
12.5°	1741.9	1750.5	1746.2	1732.2	1710.8	1671.4	1618.0	1576.6	1542.1	1468.9	1439.5
15°	1929.7	1962.0	1941.4	1893.7	1894.8	1857.2	1787.5	1710.8	1670.1	1606.1	1518.9
17.5°	2129.7	2133.7	2125.0	2085.4	2058.9	2007.3	1942.9	1869.5	1787.0	1709.5	1617.0
20°	2236.3	2233.1	2214.6	2194.0	2148.6	2108.4	2038.1	1956.1	1850.4	1774.2	1673.2
22.5°	2295.5	2290.3	2281.5	2264.2	2226.3	2183.2	2120.1	2030.5	1930.0	1825.0	1708.4
25°	2290.3	2297.1	2298.1	2293.4	2280.2	2254.3	2204.6	2133.2	2032.8	1897.9	1776.4
27.5°	2083.0	2092.7	2121.0	2146.1	2174.0	2202.6	2198.8	2163.3	2089.0	1972.7	1823.9
30°	1875.7	1854.6	1906.9	1973.1	2018.0	2097.3	2141.7	2144.3	2102.5	2002.7	1857.7
32.5°	1588.1	1611.4	1634.6	1715.9	1814.1	1903.2	1991.6	2062.8	2070.8	2004.4	1877.6
35°	1234.0	1263.0	1305.4	1347.6	1453.4	1544.3	1699.7	1835.0	1942.9	1957.2	1879.5
37.5°	994.3	1008.8	1035.5	1077.8	1147.0	1254.9	1375.1	1546.2	1702.4	1818.7	1823.7
40°	869.2	873.4	903.5	935.7	991.8	1080.7	1189.0	1340.2	1527.3	1689.7	1757.4
42.5°	775.3	784.6	797.4	828.3	872.9	939.8	1040.6	1165.5	1337.1	1523.9	1656.3
45°	666.1	676.7	684.7	705.3	737.0	781.9	852.2	966.4	1097.0	1290.0	1468.1
47.5°	594.0	594.9	600.8	616.3	637.9	671.7	721.3	794.8	914.6	1071.1	1254.1
50°	542.4	550.9	553.0	565.1	582.1	606.9	648.1	710.5	808.9	946.3	1114.5
52.5°	506.0	508.6	514.5	523.3	538.1	557.4	593.2	642.1	719.2	836.4	991.0
55°	452.5	452.5	458.4	465.2	473.7	491.1	514.9	550.9	609.6	700.5	828.5
57.5°	403.0	405.7	409.8	411.9	419.1	430.7	450.5	477.9	521.6	591.6	693.3
60°	370.1	374.9	374.4	378.5	384.9	393.8	410.8	433.0	472.1	528.2	613.8
62.5°	341.3	341.0	340.9	346.0	352.3	360.9	371.8	391.1	424.3	474.0	546.9
65°	294.0	292.9	296.6	299.7	301.8	308.2	316.7	333.6	355.8	392.8	449.4
67.5°	251.9	248.8	250.9	251.9	255.5	260.4	268.3	278.8	296.5	326.2	368.8
70°	223.1	220.5	219.9	221.0	224.2	227.8	233.7	243.7	260.1	283.9	315.1
72.5°	193.5	191.7	191.6	193.9	195.4	197.8	202.0	211.2	224.2	242.1	271.1
75°	151.2	151.2	151.2	151.7	153.3	155.4	158.6	163.4	173.4	186.1	205.6
77.5°	113.3	113.2	112.6	112.5	114.8	115.8	116.5	121.0	126.5	135.1	149.4
80°	88.9	86.1	87.3	88.9	89.9	90.4	92.0	93.0	97.9	102.6	112.6
82.5°	65.9	63.7	63.9	66.4	66.7	67.2	68.8	70.2	72.0	76.3	81.7
85°	34.9	34.9	35.4	35.4	36.0	35.4	37.0	37.6	37.6	40.2	43.3
87.5°	17.5	16.5	16.9	17.2	16.8	17.1	17.4	17.6	17.9	18.2	18.2
90°	23.7	23.3	23.0	22.6	22.3	21.7	21.0	20.4	19.7	19.0	16.7
92.5°	31.9	32.1	32.3	32.5	32.7	32.5	32.0	31.4	30.9	30.3	29.0
95°	61.6	61.6	61.6	61.6	61.6	61.2	60.5	59.8	59.2	58.5	57.1
97.5°	94.7	94.8	94.9	94.9	95.0	94.6	93.8	93.0	92.2	91.4	90.4
100°	120.0	119.7	119.3	119.0	118.7	118.2	117.6	117.1	116.6	116.0	115.2
102.5°	145.9	146.0	146.0	146.1	146.2	145.9	145.4	144.9	144.4	143.9	142.7
105°	187.9	187.5	187.2	186.8	186.5	186.3	186.3	186.3	186.3	186.3	184.8
107.5°	231.7	231.9	232.1	232.3	232.5	232.4	231.8	231.2	230.7	230.0	229.4
110°	261.4	261.7	262.1	262.4	262.8	262.6	261.9	261.2	260.4	259.7	259.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	293.0	293.0	293.1	293.2	293.2	292.9	292.0	291.1	290.3	289.4	289.4
115°	336.4	336.5	336.7	336.9	337.1	337.1	336.9	336.7	336.5	336.4	336.7
117.5°	380.4	380.9	381.4	381.9	382.3	382.6	382.6	382.7	382.7	382.7	383.2
120°	411.3	411.7	412.0	412.4	412.7	413.0	413.2	413.3	413.5	413.7	414.7
122.5°	441.0	441.5	442.0	442.5	443.0	443.5	443.9	444.4	444.8	445.4	445.8
125°	485.5	486.3	487.0	487.7	488.4	489.1	489.8	490.5	491.2	491.9	492.2
127.5°	530.0	530.8	531.6	532.4	533.2	534.1	535.0	536.0	537.0	538.0	538.4
130°	559.0	560.3	561.5	562.7	563.9	564.9	565.6	566.3	566.9	567.6	568.3
132.5°	589.4	590.3	591.2	592.2	593.1	594.0	594.8	595.7	596.5	597.3	597.7
135°	636.4	636.7	637.1	637.4	637.8	638.3	639.0	639.7	640.5	641.2	641.3
137.5°	677.9	678.6	679.2	679.9	680.5	681.3	682.1	682.8	683.5	684.2	683.8
140°	705.1	706.3	707.5	708.7	710.0	710.6	710.8	711.0	711.2	711.3	711.2
142.5°	732.9	733.8	734.8	735.7	736.7	737.2	737.4	737.6	737.7	737.9	737.6
145°	773.0	773.7	774.4	775.1	775.8	776.2	776.4	776.6	776.8	776.9	776.4
147.5°	808.7	809.7	810.7	811.8	812.8	813.4	813.4	813.4	813.4	813.4	812.9
150°	831.4	832.4	833.5	834.6	835.7	836.2	836.2	836.2	836.2	836.2	835.8
152.5°	853.5	854.4	855.4	856.3	857.2	857.5	857.2	856.9	856.7	856.4	856.2
155°	883.5	884.7	886.0	887.2	888.4	888.7	888.0	887.3	886.6	885.9	885.8
157.5°	910.8	911.8	912.8	913.8	914.7	914.8	914.1	913.4	912.7	911.9	911.8
160°	928.5	929.2	929.9	930.6	931.3	931.2	930.4	929.5	928.6	927.8	927.8
162.5°	941.8	942.9	944.0	945.1	946.2	946.4	945.5	944.6	943.7	942.9	942.7
165°	960.9	962.1	963.3	964.6	965.8	965.9	964.8	963.8	962.7	961.7	961.7
167.5°	977.1	978.3	979.4	980.4	981.5	981.5	980.4	979.4	978.3	977.1	977.0
170°	985.3	986.6	987.8	989.1	990.3	990.3	989.1	987.8	986.6	985.3	985.3
172.5°	991.7	992.9	994.1	995.3	996.6	996.6	995.6	994.5	993.4	992.3	992.3
175°	998.8	1000.0	1001.3	1002.5	1003.7	1003.8	1002.7	1001.7	1000.7	999.6	999.6
177.5°	1002.6	1003.6	1004.5	1005.5	1006.5	1006.5	1005.7	1004.9	1004.0	1003.2	1003.2
180°	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1125.0	1121.7	1118.2	1112.4	1107.3	1100.0	1097.9	1095.4	1087.8	1081.1	1076.0
5°	1193.8	1181.0	1162.6	1145.7	1132.0	1113.4	1102.9	1091.8	1075.9	1061.6	1050.0
7.5°	1265.7	1240.7	1211.9	1180.8	1151.9	1124.0	1101.5	1081.4	1059.1	1038.1	1021.8
10°	1322.7	1286.8	1246.7	1203.3	1166.3	1130.3	1100.1	1073.8	1045.2	1020.4	999.8
12.5°	1387.9	1334.6	1279.2	1226.6	1182.8	1132.9	1096.4	1062.8	1030.4	1000.5	977.3
15°	1465.0	1397.4	1331.7	1259.3	1192.8	1130.3	1087.0	1044.7	1007.1	976.4	946.8
17.5°	1535.2	1458.5	1372.1	1284.0	1203.7	1129.7	1069.0	1021.2	974.2	936.8	907.3
20°	1575.0	1487.7	1389.9	1298.5	1209.6	1127.1	1060.6	1003.4	952.7	913.0	879.7
22.5°	1609.2	1507.1	1405.9	1308.2	1209.2	1120.3	1044.9	986.1	931.1	892.3	856.9
25°	1644.8	1522.6	1421.1	1306.4	1195.9	1103.9	1019.3	952.7	897.7	852.2	815.8
27.5°	1675.2	1521.6	1401.1	1277.7	1175.0	1082.8	992.4	921.0	862.6	813.2	776.2
30°	1695.5	1523.7	1380.4	1258.3	1154.7	1059.4	971.7	899.8	838.5	788.3	753.4
32.5°	1708.2	1522.4	1361.4	1231.2	1122.5	1038.3	949.3	874.8	811.8	762.4	728.8
35°	1715.6	1513.1	1328.6	1175.3	1070.6	988.7	914.1	836.9	770.8	724.8	686.8
37.5°	1700.8	1493.5	1290.5	1121.4	1006.7	926.0	863.3	797.6	734.4	683.7	651.0
40°	1677.5	1480.9	1260.9	1083.3	962.7	885.0	831.6	767.1	704.7	656.6	625.9
42.5°	1633.1	1455.0	1228.3	1041.0	917.1	839.3	790.2	736.3	677.2	632.1	601.5
45°	1524.7	1398.9	1179.5	977.5	849.6	769.2	725.9	686.8	633.4	589.5	563.0
47.5°	1374.3	1314.4	1108.8	910.6	779.2	701.9	656.8	625.3	586.3	550.9	525.5
50°	1269.9	1245.1	1061.1	864.9	732.3	656.6	613.3	584.7	556.7	521.3	498.1
52.5°	1149.3	1164.7	1005.2	817.6	684.4	610.1	569.3	546.6	521.2	492.1	471.8
55°	979.7	1035.1	908.8	738.0	613.3	542.4	503.8	483.7	469.0	447.3	429.8
57.5°	820.7	891.4	804.6	656.1	543.4	482.3	445.2	423.3	413.8	402.5	388.8
60°	726.4	796.2	730.1	601.1	496.4	438.3	405.5	387.0	377.5	369.5	357.9
62.5°	642.3	712.9	657.3	545.3	450.3	396.4	367.9	349.8	342.3	338.2	328.3
65°	526.5	587.3	550.4	458.4	384.4	336.8	310.8	298.2	291.3	289.7	283.4
67.5°	428.6	474.8	447.9	380.2	321.9	280.8	258.8	248.0	242.8	242.3	237.5
70°	364.3	407.6	387.0	325.7	275.5	243.2	224.2	214.6	211.5	211.0	208.3
72.5°	314.4	344.6	328.2	277.0	238.2	208.9	195.0	185.0	181.5	182.2	180.4
75°	232.6	255.4	245.8	210.5	179.3	160.2	148.6	142.2	139.1	140.7	138.6
77.5°	167.3	181.8	173.2	148.7	129.5	115.6	107.1	103.2	100.4	100.3	99.3
80°	126.3	134.8	130.1	115.2	99.4	87.8	80.9	78.3	76.6	76.1	75.6
82.5°	90.0	97.1	91.6	81.4	70.6	63.6	59.8	56.2	55.1	55.4	54.8
85°	45.4	48.1	45.9	39.7	35.4	32.2	30.1	28.6	27.5	28.0	27.0
87.5°	18.5	18.5	16.8	14.6	13.4	11.8	11.5	10.3	9.8	10.2	10.1
90°	14.3	12.1	9.8	7.8	6.1	4.3	2.5	0.8	2.5	4.3	6.1
92.5°	27.8	26.5	25.1	23.8	22.7	21.5	20.3	19.1	20.3	21.5	22.7
95°	55.6	54.2	52.8	51.5	50.3	49.1	47.8	46.6	47.8	49.1	50.3
97.5°	89.4	88.4	87.4	86.4	85.4	84.5	83.6	82.7	83.6	84.5	85.4
100°	114.3	113.4	112.6	111.6	110.6	109.5	108.5	107.3	108.5	109.5	110.6
102.5°	141.6	140.4	139.3	138.4	137.7	137.0	136.4	135.8	136.4	137.0	137.7
105°	183.2	181.6	180.1	179.0	178.7	178.3	178.0	177.6	178.0	178.3	178.7
107.5°	228.8	228.2	227.5	227.1	226.9	226.7	226.5	226.3	226.5	226.7	226.9
110°	259.0	258.7	258.3	258.0	257.6	257.3	256.9	256.6	256.9	257.3	257.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	289.3	289.2	289.1	289.0	288.8	288.6	288.4	288.2	288.4	288.6	288.8
115°	337.1	337.4	337.8	337.7	337.1	336.6	336.1	335.6	336.1	336.6	337.1
117.5°	383.6	384.2	384.6	384.7	384.3	384.0	383.6	383.2	383.6	384.0	384.3
120°	415.5	416.4	417.3	417.2	416.1	415.1	413.9	412.9	413.9	415.1	416.1
122.5°	446.3	446.7	447.2	447.0	446.2	445.5	444.6	443.9	444.6	445.5	446.2
125°	492.6	492.9	493.3	493.2	492.7	492.1	491.6	491.1	491.6	492.1	492.7
127.5°	538.8	539.2	539.6	539.2	538.1	536.9	535.8	534.7	535.8	536.9	538.1
130°	568.8	569.3	569.8	569.4	567.9	566.5	565.1	563.7	565.1	566.5	567.9
132.5°	598.1	598.5	599.0	598.4	597.0	595.6	594.2	592.8	594.2	595.6	597.0
135°	641.5	641.7	641.9	641.4	640.4	639.2	638.2	637.1	638.2	639.2	640.4
137.5°	683.3	682.9	682.4	681.8	680.9	679.9	679.1	678.2	679.1	679.9	680.9
140°	711.0	710.8	710.6	710.1	709.3	708.4	707.5	706.6	707.5	708.4	709.3
142.5°	737.3	737.0	736.7	736.1	735.2	734.3	733.5	732.6	733.5	734.3	735.2
145°	775.9	775.4	774.8	774.4	774.1	773.7	773.4	773.0	773.4	773.7	774.1
147.5°	812.4	811.9	811.4	810.9	810.2	809.6	809.0	808.4	809.0	809.6	810.2
150°	835.5	835.1	834.8	834.4	834.0	833.6	833.3	832.9	833.3	833.6	834.0
152.5°	856.0	855.8	855.6	855.2	854.6	854.1	853.6	853.2	853.6	854.1	854.6
155°	885.6	885.3	885.1	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0
157.5°	911.7	911.5	911.4	911.4	911.6	911.8	912.0	912.2	912.0	911.8	911.6
160°	927.8	927.8	927.8	927.9	928.3	928.6	929.0	929.3	929.0	928.6	928.3
162.5°	942.6	942.5	942.3	942.5	943.0	943.5	944.0	944.4	944.0	943.5	943.0
165°	961.7	961.7	961.7	961.9	962.5	963.0	963.5	964.0	963.5	963.0	962.5
167.5°	976.8	976.7	976.6	976.8	977.5	978.3	979.0	979.7	979.0	978.3	977.5
170°	985.3	985.3	985.3	985.7	986.4	987.1	987.8	988.6	987.8	987.1	986.4
172.5°	992.3	992.3	992.3	992.7	993.4	994.1	994.8	995.4	994.8	994.1	993.4
175°	999.6	999.6	999.6	1000.0	1000.7	1001.4	1002.0	1002.7	1002.0	1001.4	1000.7
177.5°	1003.2	1003.2	1003.2	1003.5	1004.0	1004.6	1005.2	1005.7	1005.2	1004.6	1004.0
180°	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1073.0	1070.1	1065.8	1059.4	1054.4	1046.3	1046.3	1047.6	1047.6	1047.2	1046.3
5°	1040.5	1032.5	1023.0	1011.9	1000.3	988.7	986.5	982.3	979.2	977.0	974.3
7.5°	1006.1	992.0	978.2	962.6	948.5	936.8	928.6	921.8	917.5	912.8	909.5
10°	982.8	965.3	949.0	932.6	914.6	900.4	891.4	885.0	880.3	876.1	873.9
12.5°	955.3	935.3	917.3	901.7	882.0	867.4	858.8	855.9	850.2	841.3	836.7
15°	915.1	896.7	874.9	851.2	841.6	823.6	813.6	808.9	805.7	798.8	796.7
17.5°	880.8	856.6	832.2	814.5	796.8	782.2	776.6	770.7	766.5	760.8	759.2
20°	853.3	831.6	809.4	790.4	771.8	756.0	751.2	747.0	742.8	740.1	738.0
22.5°	825.4	803.8	785.3	767.5	747.8	737.4	732.3	727.6	724.6	722.9	720.7
25°	786.2	767.1	746.5	730.6	714.8	707.9	704.7	702.1	699.9	697.3	696.8
27.5°	751.0	730.3	713.6	698.8	687.4	681.7	678.6	677.3	677.8	678.7	679.3
30°	724.8	705.8	692.1	679.3	668.8	663.5	663.0	663.0	665.1	665.6	666.7
32.5°	700.7	685.1	671.4	659.0	651.1	647.4	649.4	649.4	651.2	652.5	654.4
35°	665.6	651.9	641.3	630.8	623.9	625.4	626.5	627.5	630.2	633.4	635.5
37.5°	632.1	620.2	609.2	600.9	597.7	600.6	603.1	605.3	608.4	610.9	613.0
40°	607.9	599.0	588.4	581.0	582.1	583.7	585.8	588.4	591.1	592.7	594.8
42.5°	585.5	576.1	568.2	562.0	563.5	565.5	566.7	568.2	571.2	574.0	575.3
45°	551.4	544.0	536.6	532.9	534.0	535.0	536.0	537.7	540.3	542.4	543.0
47.5°	513.0	507.9	502.9	499.3	501.0	500.6	501.9	505.3	506.1	507.5	510.4
50°	488.5	483.7	478.0	476.9	476.9	476.9	477.4	481.6	481.6	483.7	485.8
52.5°	461.4	458.4	454.6	452.7	451.9	451.9	454.1	456.3	457.1	460.1	462.2
55°	421.3	418.2	415.1	413.4	412.3	413.4	417.7	418.7	421.3	422.9	424.5
57.5°	379.6	377.2	374.7	373.8	373.5	375.0	377.3	380.4	381.1	386.0	388.4
60°	352.1	348.4	346.3	346.3	345.3	350.0	348.9	354.3	355.3	358.4	362.1
62.5°	323.8	318.8	317.9	317.9	319.4	320.8	322.2	324.6	327.4	331.3	334.3
65°	278.1	275.5	279.1	278.6	277.5	280.7	280.7	283.4	286.5	290.2	296.1
67.5°	234.8	233.5	233.8	233.8	235.4	237.2	238.6	241.0	244.8	248.7	252.5
70°	205.6	207.2	204.6	206.7	208.3	208.8	209.8	213.1	217.3	219.9	224.2
72.5°	177.3	177.2	177.5	178.3	180.0	180.9	182.0	185.6	190.3	192.5	195.8
75°	136.4	135.8	137.4	137.4	140.1	141.2	142.2	143.8	148.0	151.2	153.8
77.5°	99.6	100.3	99.9	101.7	101.0	101.2	104.4	106.0	106.4	112.7	114.1
80°	75.0	76.1	76.6	77.2	77.8	76.6	80.4	81.9	81.9	85.6	88.3
82.5°	53.9	54.5	55.9	56.5	56.6	57.7	58.0	59.1	60.4	62.0	65.4
85°	27.0	28.6	29.1	28.6	29.1	28.0	29.6	30.1	30.7	30.7	30.7
87.5°	10.0	10.8	10.9	11.7	11.8	12.6	12.8	12.1	12.2	13.6	12.1
90°	7.8	9.8	12.1	14.3	16.7	19.0	19.7	20.4	21.0	21.7	22.3
92.5°	23.8	25.1	26.5	27.8	29.0	30.3	30.9	31.4	32.0	32.5	32.7
95°	51.5	52.8	54.2	55.6	57.1	58.5	59.2	59.8	60.5	61.2	61.6
97.5°	86.4	87.4	88.4	89.4	90.4	91.4	92.2	93.0	93.8	94.6	95.0
100°	111.6	112.6	113.4	114.3	115.2	116.0	116.6	117.1	117.6	118.2	118.7
102.5°	138.4	139.3	140.4	141.6	142.7	143.9	144.4	144.9	145.4	145.9	146.2
105°	179.0	180.1	181.6	183.2	184.8	186.3	186.3	186.3	186.3	186.3	186.5
107.5°	227.1	227.5	228.2	228.8	229.4	230.0	230.7	231.2	231.8	232.4	232.5
110°	258.0	258.3	258.7	259.0	259.4	259.7	260.4	261.2	261.9	262.6	262.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	289.0	289.1	289.2	289.3	289.4	289.4	290.3	291.1	292.0	292.9	293.2
115°	337.7	337.8	337.4	337.1	336.7	336.4	336.5	336.7	336.9	337.1	337.1
117.5°	384.7	384.6	384.2	383.6	383.2	382.7	382.7	382.7	382.6	382.6	382.3
120°	417.2	417.3	416.4	415.5	414.7	413.7	413.5	413.3	413.2	413.0	412.7
122.5°	447.0	447.2	446.7	446.3	445.8	445.4	444.8	444.4	443.9	443.5	443.0
125°	493.2	493.3	492.9	492.6	492.2	491.9	491.2	490.5	489.8	489.1	488.4
127.5°	539.2	539.6	539.2	538.8	538.4	538.0	537.0	536.0	535.0	534.1	533.2
130°	569.4	569.8	569.3	568.8	568.3	567.6	566.9	566.3	565.6	564.9	563.9
132.5°	598.4	599.0	598.5	598.1	597.7	597.3	596.5	595.7	594.8	594.0	593.1
135°	641.4	641.9	641.7	641.5	641.3	641.2	640.5	639.7	639.0	638.3	637.8
137.5°	681.8	682.4	682.9	683.3	683.8	684.2	683.5	682.8	682.1	681.3	680.5
140°	710.1	710.6	710.8	711.0	711.2	711.3	711.2	711.0	710.8	710.6	710.0
142.5°	736.1	736.7	737.0	737.3	737.6	737.9	737.7	737.6	737.4	737.2	736.7
145°	774.4	774.8	775.4	775.9	776.4	776.9	776.8	776.6	776.4	776.2	775.8
147.5°	810.9	811.4	811.9	812.4	812.9	813.4	813.4	813.4	813.4	813.4	812.8
150°	834.4	834.8	835.1	835.5	835.8	836.2	836.2	836.2	836.2	836.2	835.7
152.5°	855.2	855.6	855.8	856.0	856.2	856.4	856.7	856.9	857.2	857.5	857.2
155°	885.0	885.1	885.3	885.6	885.8	885.9	886.6	887.3	888.0	888.7	888.4
157.5°	911.4	911.4	911.5	911.7	911.8	911.9	912.7	913.4	914.1	914.8	914.7
160°	927.9	927.8	927.8	927.8	927.8	927.8	928.6	929.5	930.4	931.2	931.3
162.5°	942.5	942.3	942.5	942.6	942.7	942.9	943.7	944.6	945.5	946.4	946.2
165°	961.9	961.7	961.7	961.7	961.7	961.7	962.7	963.8	964.8	965.9	965.8
167.5°	976.8	976.6	976.7	976.8	977.0	977.1	978.3	979.4	980.4	981.5	981.5
170°	985.7	985.3	985.3	985.3	985.3	985.3	986.6	987.8	989.1	990.3	990.3
172.5°	992.7	992.3	992.3	992.3	992.3	992.3	993.4	994.5	995.6	996.6	996.6
175°	1000.0	999.6	999.6	999.6	999.6	999.6	1000.7	1001.7	1002.7	1003.8	1003.7
177.5°	1003.5	1003.2	1003.2	1003.2	1003.2	1003.2	1004.0	1004.9	1005.7	1006.5	1006.5
180°	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1



TEST NUMBER: P331974-840

CATALOG NUMBER: S123DIP-S775D805U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1043.4	1043.0	1045.9	1043.8	1045.9	1043.0	1043.4	1046.3	1047.2	1047.6	1047.6
5°	971.2	972.8	967.5	967.5	967.5	972.8	971.2	974.3	977.0	979.2	982.3
7.5°	906.9	904.5	904.7	901.9	904.7	904.5	906.9	909.5	912.8	917.5	921.8
10°	867.6	864.4	863.3	863.8	863.3	864.4	867.6	873.9	876.1	880.3	885.0
12.5°	835.0	834.4	827.4	827.5	827.4	834.4	835.0	836.7	841.3	850.2	855.9
15°	796.7	786.7	785.6	788.8	785.6	786.7	796.7	796.7	798.8	805.7	808.9
17.5°	758.3	753.1	753.4	751.7	753.4	753.1	758.3	759.2	760.8	766.5	770.7
20°	738.0	734.9	734.4	730.6	734.4	734.9	738.0	738.0	740.1	742.8	747.0
22.5°	719.4	718.4	718.7	714.6	718.7	718.4	719.4	720.7	722.9	724.6	727.6
25°	696.3	698.9	696.8	696.8	696.8	698.9	696.3	696.8	697.3	699.9	702.1
27.5°	680.6	680.5	679.4	679.4	679.4	680.5	680.6	679.3	678.7	677.8	677.3
30°	668.8	668.2	669.3	669.3	669.3	668.2	668.8	666.7	665.6	665.1	663.0
32.5°	656.9	657.7	657.9	658.3	657.9	657.7	656.9	654.4	652.5	651.2	649.4
35°	638.6	639.1	640.8	639.7	640.8	639.1	638.6	635.5	633.4	630.2	627.5
37.5°	613.9	616.3	615.8	616.6	615.8	616.3	613.9	613.0	610.9	608.4	605.3
40°	595.3	596.9	596.3	596.3	596.3	596.9	595.3	594.8	592.7	591.1	588.4
42.5°	576.2	577.4	576.0	575.2	576.0	577.4	576.2	575.3	574.0	571.2	568.2
45°	545.0	544.0	545.6	543.5	545.6	544.0	545.0	543.0	542.4	540.3	537.7
47.5°	510.2	511.2	511.7	513.2	511.7	511.2	510.2	510.4	507.5	506.1	505.3
50°	487.0	490.1	490.1	489.6	490.1	490.1	487.0	485.8	483.7	481.6	481.6
52.5°	464.0	465.5	467.7	467.6	467.7	465.5	464.0	462.2	460.1	457.1	456.3
55°	428.8	429.8	430.9	431.4	430.9	429.8	428.8	424.5	422.9	421.3	418.7
57.5°	392.1	391.7	394.3	395.1	394.3	391.7	392.1	388.4	386.0	381.1	380.4
60°	366.4	366.4	370.6	372.2	370.6	366.4	366.4	362.1	358.4	355.3	354.3
62.5°	338.9	340.6	344.8	342.5	344.8	340.6	338.9	334.3	331.3	327.4	324.6
65°	298.7	303.0	302.5	304.5	302.5	303.0	298.7	296.1	290.2	286.5	283.4
67.5°	256.7	259.3	263.2	263.5	263.2	259.3	256.7	252.5	248.7	244.8	241.0
70°	228.4	231.1	233.2	234.7	233.2	231.1	228.4	224.2	219.9	217.3	213.1
72.5°	200.9	202.3	207.3	205.1	207.3	202.3	200.9	195.8	192.5	190.3	185.6
75°	157.5	161.3	164.4	162.8	164.4	161.3	157.5	153.8	151.2	148.0	143.8
77.5°	116.5	120.2	121.7	120.4	121.7	120.2	116.5	114.1	112.7	106.4	106.0
80°	92.0	91.5	94.6	94.1	94.6	91.5	92.0	88.3	85.6	81.9	81.9
82.5°	67.5	67.0	68.4	68.8	68.4	67.0	67.5	65.4	62.0	60.4	59.1
85°	32.8	34.3	32.2	31.7	32.2	34.3	32.8	30.7	30.7	30.7	30.1
87.5°	12.1	12.2	11.8	11.5	11.8	12.2	12.1	12.1	13.6	12.2	12.1
90°	22.6	23.0	23.3	23.7	23.3	23.0	22.6	22.3	21.7	21.0	20.4
92.5°	32.5	32.3	32.1	31.9	32.1	32.3	32.5	32.7	32.5	32.0	31.4
95°	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.2	60.5	59.8
97.5°	94.9	94.9	94.8	94.7	94.8	94.9	94.9	95.0	94.6	93.8	93.0
100°	119.0	119.3	119.7	120.0	119.7	119.3	119.0	118.7	118.2	117.6	117.1
102.5°	146.1	146.0	146.0	145.9	146.0	146.0	146.1	146.2	145.9	145.4	144.9
105°	186.8	187.2	187.5	187.9	187.5	187.2	186.8	186.5	186.3	186.3	186.3
107.5°	232.3	232.1	231.9	231.7	231.9	232.1	232.3	232.5	232.4	231.8	231.2
110°	262.4	262.1	261.7	261.4	261.7	262.1	262.4	262.8	262.6	261.9	261.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	293.2	293.1	293.0	293.0	293.0	293.1	293.2	293.2	292.9	292.0	291.1
115°	336.9	336.7	336.5	336.4	336.5	336.7	336.9	337.1	337.1	336.9	336.7
117.5°	381.9	381.4	380.9	380.4	380.9	381.4	381.9	382.3	382.6	382.6	382.7
120°	412.4	412.0	411.7	411.3	411.7	412.0	412.4	412.7	413.0	413.2	413.3
122.5°	442.5	442.0	441.5	441.0	441.5	442.0	442.5	443.0	443.5	443.9	444.4
125°	487.7	487.0	486.3	485.5	486.3	487.0	487.7	488.4	489.1	489.8	490.5
127.5°	532.4	531.6	530.8	530.0	530.8	531.6	532.4	533.2	534.1	535.0	536.0
130°	562.7	561.5	560.3	559.0	560.3	561.5	562.7	563.9	564.9	565.6	566.3
132.5°	592.2	591.2	590.3	589.4	590.3	591.2	592.2	593.1	594.0	594.8	595.7
135°	637.4	637.1	636.7	636.4	636.7	637.1	637.4	637.8	638.3	639.0	639.7
137.5°	679.9	679.2	678.6	677.9	678.6	679.2	679.9	680.5	681.3	682.1	682.8
140°	708.7	707.5	706.3	705.1	706.3	707.5	708.7	710.0	710.6	710.8	711.0
142.5°	735.7	734.8	733.8	732.9	733.8	734.8	735.7	736.7	737.2	737.4	737.6
145°	775.1	774.4	773.7	773.0	773.7	774.4	775.1	775.8	776.2	776.4	776.6
147.5°	811.8	810.7	809.7	808.7	809.7	810.7	811.8	812.8	813.4	813.4	813.4
150°	834.6	833.5	832.4	831.4	832.4	833.5	834.6	835.7	836.2	836.2	836.2
152.5°	856.3	855.4	854.4	853.5	854.4	855.4	856.3	857.2	857.5	857.2	856.9
155°	887.2	886.0	884.7	883.5	884.7	886.0	887.2	888.4	888.7	888.0	887.3
157.5°	913.8	912.8	911.8	910.8	911.8	912.8	913.8	914.7	914.8	914.1	913.4
160°	930.6	929.9	929.2	928.5	929.2	929.9	930.6	931.3	931.2	930.4	929.5
162.5°	945.1	944.0	942.9	941.8	942.9	944.0	945.1	946.2	946.4	945.5	944.6
165°	964.6	963.3	962.1	960.9	962.1	963.3	964.6	965.8	965.9	964.8	963.8
167.5°	980.4	979.4	978.3	977.1	978.3	979.4	980.4	981.5	981.5	980.4	979.4
170°	989.1	987.8	986.6	985.3	986.6	987.8	989.1	990.3	990.3	989.1	987.8
172.5°	995.3	994.1	992.9	991.7	992.9	994.1	995.3	996.6	996.6	995.6	994.5
175°	1002.5	1001.3	1000.0	998.8	1000.0	1001.3	1002.5	1003.7	1003.8	1002.7	1001.7
177.5°	1005.5	1004.5	1003.6	1002.6	1003.6	1004.5	1005.5	1006.5	1006.5	1005.7	1004.9
180°	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1046.3	1046.3	1054.4	1059.4	1065.8	1070.1	1073.0	1076.0	1081.1	1087.8	1095.4
5°	986.5	988.7	1000.3	1011.9	1023.0	1032.5	1040.5	1050.0	1061.6	1075.9	1091.8
7.5°	928.6	936.8	948.5	962.6	978.2	992.0	1006.1	1021.8	1038.1	1059.1	1081.4
10°	891.4	900.4	914.6	932.6	949.0	965.3	982.8	999.8	1020.4	1045.2	1073.8
12.5°	858.8	867.4	882.0	901.7	917.3	935.3	955.3	977.3	1000.5	1030.4	1062.8
15°	813.6	823.6	841.6	851.2	874.9	896.7	915.1	946.8	976.4	1007.1	1044.7
17.5°	776.6	782.2	796.8	814.5	832.2	856.6	880.8	907.3	936.8	974.2	1021.2
20°	751.2	756.0	771.8	790.4	809.4	831.6	853.3	879.7	913.0	952.7	1003.4
22.5°	732.3	737.4	747.8	767.5	785.3	803.8	825.4	856.9	892.3	931.1	986.1
25°	704.7	707.9	714.8	730.6	746.5	767.1	786.2	815.8	852.2	897.7	952.7
27.5°	678.6	681.7	687.4	698.8	713.6	730.3	751.0	776.2	813.2	862.6	921.0
30°	663.0	663.5	668.8	679.3	692.1	705.8	724.8	753.4	788.3	838.5	899.8
32.5°	649.4	647.4	651.1	659.0	671.4	685.1	700.7	728.8	762.4	811.8	874.8
35°	626.5	625.4	623.9	630.8	641.3	651.9	665.6	686.8	724.8	770.8	836.9
37.5°	603.1	600.6	597.7	600.9	609.2	620.2	632.1	651.0	683.7	734.4	797.6
40°	585.8	583.7	582.1	581.0	588.4	599.0	607.9	625.9	656.6	704.7	767.1
42.5°	566.7	565.5	563.5	562.0	568.2	576.1	585.5	601.5	632.1	677.2	736.3
45°	536.0	535.0	534.0	532.9	536.6	544.0	551.4	563.0	589.5	633.4	686.8
47.5°	501.9	500.6	501.0	499.3	502.9	507.9	513.0	525.5	550.9	586.3	625.3
50°	477.4	476.9	476.9	476.9	478.0	483.7	488.5	498.1	521.3	556.7	584.7
52.5°	454.1	451.9	451.9	452.7	454.6	458.4	461.4	471.8	492.1	521.2	546.6
55°	417.7	413.4	412.3	413.4	415.1	418.2	421.3	429.8	447.3	469.0	483.7
57.5°	377.3	375.0	373.5	373.8	374.7	377.2	379.6	388.8	402.5	413.8	423.3
60°	348.9	350.0	345.3	346.3	346.3	348.4	352.1	357.9	369.5	377.5	387.0
62.5°	322.2	320.8	319.4	317.9	317.9	318.8	323.8	328.3	338.2	342.3	349.8
65°	280.7	280.7	277.5	278.6	279.1	275.5	278.1	283.4	289.7	291.3	298.2
67.5°	238.6	237.2	235.4	233.8	233.8	233.5	234.8	237.5	242.3	242.8	248.0
70°	209.8	208.8	208.3	206.7	204.6	207.2	205.6	208.3	211.0	211.5	214.6
72.5°	182.0	180.9	180.0	178.3	177.5	177.2	177.3	180.4	182.2	181.5	185.0
75°	142.2	141.2	140.1	137.4	137.4	135.8	136.4	138.6	140.7	139.1	142.2
77.5°	104.4	101.2	101.0	101.7	99.9	100.3	99.6	99.3	100.3	100.4	103.2
80°	80.4	76.6	77.8	77.2	76.6	76.1	75.0	75.6	76.1	76.6	78.3
82.5°	58.0	57.7	56.6	56.5	55.9	54.5	53.9	54.8	55.4	55.1	56.2
85°	29.6	28.0	29.1	28.6	29.1	28.6	27.0	27.0	28.0	27.5	28.6
87.5°	12.8	12.6	11.8	11.7	10.9	10.8	10.0	10.1	10.2	9.8	10.3
90°	19.7	19.0	16.7	14.3	12.1	9.8	7.8	6.1	4.3	2.5	0.8
92.5°	30.9	30.3	29.0	27.8	26.5	25.1	23.8	22.7	21.5	20.3	19.1
95°	59.2	58.5	57.1	55.6	54.2	52.8	51.5	50.3	49.1	47.8	46.6
97.5°	92.2	91.4	90.4	89.4	88.4	87.4	86.4	85.4	84.5	83.6	82.7
100°	116.6	116.0	115.2	114.3	113.4	112.6	111.6	110.6	109.5	108.5	107.3
102.5°	144.4	143.9	142.7	141.6	140.4	139.3	138.4	137.7	137.0	136.4	135.8
105°	186.3	186.3	184.8	183.2	181.6	180.1	179.0	178.7	178.3	178.0	177.6
107.5°	230.7	230.0	229.4	228.8	228.2	227.5	227.1	226.9	226.7	226.5	226.3
110°	260.4	259.7	259.4	259.0	258.7	258.3	258.0	257.6	257.3	256.9	256.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	290.3	289.4	289.4	289.3	289.2	289.1	289.0	288.8	288.6	288.4	288.2
115°	336.5	336.4	336.7	337.1	337.4	337.8	337.7	337.1	336.6	336.1	335.6
117.5°	382.7	382.7	383.2	383.6	384.2	384.6	384.7	384.3	384.0	383.6	383.2
120°	413.5	413.7	414.7	415.5	416.4	417.3	417.2	416.1	415.1	413.9	412.9
122.5°	444.8	445.4	445.8	446.3	446.7	447.2	447.0	446.2	445.5	444.6	443.9
125°	491.2	491.9	492.2	492.6	492.9	493.3	493.2	492.7	492.1	491.6	491.1
127.5°	537.0	538.0	538.4	538.8	539.2	539.6	539.2	538.1	536.9	535.8	534.7
130°	566.9	567.6	568.3	568.8	569.3	569.8	569.4	567.9	566.5	565.1	563.7
132.5°	596.5	597.3	597.7	598.1	598.5	599.0	598.4	597.0	595.6	594.2	592.8
135°	640.5	641.2	641.3	641.5	641.7	641.9	641.4	640.4	639.2	638.2	637.1
137.5°	683.5	684.2	683.8	683.3	682.9	682.4	681.8	680.9	679.9	679.1	678.2
140°	711.2	711.3	711.2	711.0	710.8	710.6	710.1	709.3	708.4	707.5	706.6
142.5°	737.7	737.9	737.6	737.3	737.0	736.7	736.1	735.2	734.3	733.5	732.6
145°	776.8	776.9	776.4	775.9	775.4	774.8	774.4	774.1	773.7	773.4	773.0
147.5°	813.4	813.4	812.9	812.4	811.9	811.4	810.9	810.2	809.6	809.0	808.4
150°	836.2	836.2	835.8	835.5	835.1	834.8	834.4	834.0	833.6	833.3	832.9
152.5°	856.7	856.4	856.2	856.0	855.8	855.6	855.2	854.6	854.1	853.6	853.2
155°	886.6	885.9	885.8	885.6	885.3	885.1	885.0	885.0	885.0	885.0	885.0
157.5°	912.7	911.9	911.8	911.7	911.5	911.4	911.4	911.6	911.8	912.0	912.2
160°	928.6	927.8	927.8	927.8	927.8	927.8	927.9	928.3	928.6	929.0	929.3
162.5°	943.7	942.9	942.7	942.6	942.5	942.3	942.5	943.0	943.5	944.0	944.4
165°	962.7	961.7	961.7	961.7	961.7	961.7	961.9	962.5	963.0	963.5	964.0
167.5°	978.3	977.1	977.0	976.8	976.7	976.6	976.8	977.5	978.3	979.0	979.7
170°	986.6	985.3	985.3	985.3	985.3	985.3	985.7	986.4	987.1	987.8	988.6
172.5°	993.4	992.3	992.3	992.3	992.3	992.3	992.7	993.4	994.1	994.8	995.4
175°	1000.7	999.6	999.6	999.6	999.6	999.6	1000.0	1000.7	1001.4	1002.0	1002.7
177.5°	1004.0	1003.2	1003.2	1003.2	1003.2	1003.2	1003.5	1004.0	1004.6	1005.2	1005.7
180°	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1097.9	1100.0	1107.3	1112.4	1118.2	1121.7	1125.0	1127.6	1130.9	1131.8	1144.1
5°	1102.9	1113.4	1132.0	1145.7	1162.6	1181.0	1193.8	1199.6	1214.9	1227.6	1252.9
7.5°	1101.5	1124.0	1151.9	1180.8	1211.9	1240.7	1265.7	1295.3	1316.4	1348.0	1379.1
10°	1100.1	1130.3	1166.3	1203.3	1246.7	1286.8	1322.7	1362.9	1396.2	1440.2	1477.6
12.5°	1096.4	1132.9	1182.8	1226.6	1279.2	1334.6	1387.9	1439.5	1468.9	1542.1	1576.6
15°	1087.0	1130.3	1192.8	1259.3	1331.7	1397.4	1465.0	1518.9	1606.1	1670.1	1710.8
17.5°	1069.0	1129.7	1203.7	1284.0	1372.1	1458.5	1535.2	1617.0	1709.5	1787.0	1869.5
20°	1060.6	1127.1	1209.6	1298.5	1389.9	1487.7	1575.0	1673.2	1774.2	1850.4	1956.1
22.5°	1044.9	1120.3	1209.2	1308.2	1405.9	1507.1	1609.2	1708.4	1825.0	1930.0	2030.5
25°	1019.3	1103.9	1195.9	1306.4	1421.1	1522.6	1644.8	1776.4	1897.9	2032.8	2133.2
27.5°	992.4	1082.8	1175.0	1277.7	1401.1	1521.6	1675.2	1823.9	1972.7	2089.0	2163.3
30°	971.7	1059.4	1154.7	1258.3	1380.4	1523.7	1695.5	1857.7	2002.7	2102.5	2144.3
32.5°	949.3	1038.3	1122.5	1231.2	1361.4	1522.4	1708.2	1877.6	2004.4	2070.8	2062.8
35°	914.1	988.7	1070.6	1175.3	1328.6	1513.1	1715.6	1879.5	1957.2	1942.9	1835.0
37.5°	863.3	926.0	1006.7	1121.4	1290.5	1493.5	1700.8	1823.7	1818.7	1702.4	1546.2
40°	831.6	885.0	962.7	1083.3	1260.9	1480.9	1677.5	1757.4	1689.7	1527.3	1340.2
42.5°	790.2	839.3	917.1	1041.0	1228.3	1455.0	1633.1	1656.3	1523.9	1337.1	1165.5
45°	725.9	769.2	849.6	977.5	1179.5	1398.9	1524.7	1468.1	1290.0	1097.0	966.4
47.5°	656.8	701.9	779.2	910.6	1108.8	1314.4	1374.3	1254.1	1071.1	914.6	794.8
50°	613.3	656.6	732.3	864.9	1061.1	1245.1	1269.9	1114.5	946.3	808.9	710.5
52.5°	569.3	610.1	684.4	817.6	1005.2	1164.7	1149.3	991.0	836.4	719.2	642.1
55°	503.8	542.4	613.3	738.0	908.8	1035.1	979.7	828.5	700.5	609.6	550.9
57.5°	445.2	482.3	543.4	656.1	804.6	891.4	820.7	693.3	591.6	521.6	477.9
60°	405.5	438.3	496.4	601.1	730.1	796.2	726.4	613.8	528.2	472.1	433.0
62.5°	367.9	396.4	450.3	545.3	657.3	712.9	642.3	546.9	474.0	424.3	391.1
65°	310.8	336.8	384.4	458.4	550.4	587.3	526.5	449.4	392.8	355.8	333.6
67.5°	258.8	280.8	321.9	380.2	447.9	474.8	428.6	368.8	326.2	296.5	278.8
70°	224.2	243.2	275.5	325.7	387.0	407.6	364.3	315.1	283.9	260.1	243.7
72.5°	195.0	208.9	238.2	277.0	328.2	344.6	314.4	271.1	242.1	224.2	211.2
75°	148.6	160.2	179.3	210.5	245.8	255.4	232.6	205.6	186.1	173.4	163.4
77.5°	107.1	115.6	129.5	148.7	173.2	181.8	167.3	149.4	135.1	126.5	121.0
80°	80.9	87.8	99.4	115.2	130.1	134.8	126.3	112.6	102.6	97.9	93.0
82.5°	59.8	63.6	70.6	81.4	91.6	97.1	90.0	81.7	76.3	72.0	70.2
85°	30.1	32.2	35.4	39.7	45.9	48.1	45.4	43.3	40.2	37.6	37.6
87.5°	11.5	11.8	13.4	14.6	16.8	18.5	18.5	18.2	18.2	17.9	17.6
90°	2.5	4.3	6.1	7.8	9.8	12.1	14.3	16.7	19.0	19.7	20.4
92.5°	20.3	21.5	22.7	23.8	25.1	26.5	27.8	29.0	30.3	30.9	31.4
95°	47.8	49.1	50.3	51.5	52.8	54.2	55.6	57.1	58.5	59.2	59.8
97.5°	83.6	84.5	85.4	86.4	87.4	88.4	89.4	90.4	91.4	92.2	93.0
100°	108.5	109.5	110.6	111.6	112.6	113.4	114.3	115.2	116.0	116.6	117.1
102.5°	136.4	137.0	137.7	138.4	139.3	140.4	141.6	142.7	143.9	144.4	144.9
105°	178.0	178.3	178.7	179.0	180.1	181.6	183.2	184.8	186.3	186.3	186.3
107.5°	226.5	226.7	226.9	227.1	227.5	228.2	228.8	229.4	230.0	230.7	231.2
110°	256.9	257.3	257.6	258.0	258.3	258.7	259.0	259.4	259.7	260.4	261.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	288.4	288.6	288.8	289.0	289.1	289.2	289.3	289.4	289.4	290.3	291.1
115°	336.1	336.6	337.1	337.7	337.8	337.4	337.1	336.7	336.4	336.5	336.7
117.5°	383.6	384.0	384.3	384.7	384.6	384.2	383.6	383.2	382.7	382.7	382.7
120°	413.9	415.1	416.1	417.2	417.3	416.4	415.5	414.7	413.7	413.5	413.3
122.5°	444.6	445.5	446.2	447.0	447.2	446.7	446.3	445.8	445.4	444.8	444.4
125°	491.6	492.1	492.7	493.2	493.3	492.9	492.6	492.2	491.9	491.2	490.5
127.5°	535.8	536.9	538.1	539.2	539.6	539.2	538.8	538.4	538.0	537.0	536.0
130°	565.1	566.5	567.9	569.4	569.8	569.3	568.8	568.3	567.6	566.9	566.3
132.5°	594.2	595.6	597.0	598.4	599.0	598.5	598.1	597.7	597.3	596.5	595.7
135°	638.2	639.2	640.4	641.4	641.9	641.7	641.5	641.3	641.2	640.5	639.7
137.5°	679.1	679.9	680.9	681.8	682.4	682.9	683.3	683.8	684.2	683.5	682.8
140°	707.5	708.4	709.3	710.1	710.6	710.8	711.0	711.2	711.3	711.2	711.0
142.5°	733.5	734.3	735.2	736.1	736.7	737.0	737.3	737.6	737.9	737.7	737.6
145°	773.4	773.7	774.1	774.4	774.8	775.4	775.9	776.4	776.9	776.8	776.6
147.5°	809.0	809.6	810.2	810.9	811.4	811.9	812.4	812.9	813.4	813.4	813.4
150°	833.3	833.6	834.0	834.4	834.8	835.1	835.5	835.8	836.2	836.2	836.2
152.5°	853.6	854.1	854.6	855.2	855.6	855.8	856.0	856.2	856.4	856.7	856.9
155°	885.0	885.0	885.0	885.0	885.1	885.3	885.6	885.8	885.9	886.6	887.3
157.5°	912.0	911.8	911.6	911.4	911.4	911.5	911.7	911.8	911.9	912.7	913.4
160°	929.0	928.6	928.3	927.9	927.8	927.8	927.8	927.8	927.8	928.6	929.5
162.5°	944.0	943.5	943.0	942.5	942.3	942.5	942.6	942.7	942.9	943.7	944.6
165°	963.5	963.0	962.5	961.9	961.7	961.7	961.7	961.7	961.7	962.7	963.8
167.5°	979.0	978.3	977.5	976.8	976.6	976.7	976.8	977.0	977.1	978.3	979.4
170°	987.8	987.1	986.4	985.7	985.3	985.3	985.3	985.3	985.3	986.6	987.8
172.5°	994.8	994.1	993.4	992.7	992.3	992.3	992.3	992.3	992.3	993.4	994.5
175°	1002.0	1001.4	1000.7	1000.0	999.6	999.6	999.6	999.6	999.6	1000.7	1001.7
177.5°	1005.2	1004.6	1004.0	1003.5	1003.2	1003.2	1003.2	1003.2	1003.2	1004.0	1004.9
180°	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1148.3	1148.7	1153.4	1156.8	1155.1	1157.2	1158.0
5°	1254.6	1273.6	1283.6	1291.0	1291.6	1292.1	1296.4
7.5°	1405.2	1425.6	1440.6	1463.2	1470.0	1477.6	1475.4
10°	1515.2	1545.3	1571.2	1585.0	1599.8	1621.4	1604.1
12.5°	1618.0	1671.4	1710.8	1732.2	1746.2	1750.5	1741.9
15°	1787.5	1857.2	1894.8	1893.7	1941.4	1962.0	1929.7
17.5°	1942.9	2007.3	2058.9	2085.4	2125.0	2133.7	2129.7
20°	2038.1	2108.4	2148.6	2194.0	2214.6	2233.1	2236.3
22.5°	2120.1	2183.2	2226.3	2264.2	2281.5	2290.3	2295.5
25°	2204.6	2254.3	2280.2	2293.4	2298.1	2297.1	2290.3
27.5°	2198.8	2202.6	2174.0	2146.1	2121.0	2092.7	2083.0
30°	2141.7	2097.3	2018.0	1973.1	1906.9	1854.6	1875.7
32.5°	1991.6	1903.2	1814.1	1715.9	1634.6	1611.4	1588.1
35°	1699.7	1544.3	1453.4	1347.6	1305.4	1263.0	1234.0
37.5°	1375.1	1254.9	1147.0	1077.8	1035.5	1008.8	994.3
40°	1189.0	1080.7	991.8	935.7	903.5	873.4	869.2
42.5°	1040.6	939.8	872.9	828.3	797.4	784.6	775.3
45°	852.2	781.9	737.0	705.3	684.7	676.7	666.1
47.5°	721.3	671.7	637.9	616.3	600.8	594.9	594.0
50°	648.1	606.9	582.1	565.1	553.0	550.9	542.4
52.5°	593.2	557.4	538.1	523.3	514.5	508.6	506.0
55°	514.9	491.1	473.7	465.2	458.4	452.5	452.5
57.5°	450.5	430.7	419.1	411.9	409.8	405.7	403.0
60°	410.8	393.8	384.9	378.5	374.4	374.9	370.1
62.5°	371.8	360.9	352.3	346.0	340.9	341.0	341.3
65°	316.7	308.2	301.8	299.7	296.6	292.9	294.0
67.5°	268.3	260.4	255.5	251.9	250.9	248.8	251.9
70°	233.7	227.8	224.2	221.0	219.9	220.5	223.1
72.5°	202.0	197.8	195.4	193.9	191.6	191.7	193.5
75°	158.6	155.4	153.3	151.7	151.2	151.2	151.2
77.5°	116.5	115.8	114.8	112.5	112.6	113.2	113.3
80°	92.0	90.4	89.9	88.9	87.3	86.1	88.9
82.5°	68.8	67.2	66.7	66.4	63.9	63.7	65.9
85°	37.0	35.4	36.0	35.4	35.4	34.9	34.9
87.5°	17.4	17.1	16.8	17.2	16.9	16.5	17.5
90°	21.0	21.7	22.3	22.6	23.0	23.3	23.7
92.5°	32.0	32.5	32.7	32.5	32.3	32.1	31.9
95°	60.5	61.2	61.6	61.6	61.6	61.6	61.6
97.5°	93.8	94.6	95.0	94.9	94.9	94.8	94.7
100°	117.6	118.2	118.7	119.0	119.3	119.7	120.0
102.5°	145.4	145.9	146.2	146.1	146.0	146.0	145.9
105°	186.3	186.3	186.5	186.8	187.2	187.5	187.9
107.5°	231.8	232.4	232.5	232.3	232.1	231.9	231.7
110°	261.9	262.6	262.8	262.4	262.1	261.7	261.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	292.0	292.9	293.2	293.2	293.1	293.0	293.0
115°	336.9	337.1	337.1	336.9	336.7	336.5	336.4
117.5°	382.6	382.6	382.3	381.9	381.4	380.9	380.4
120°	413.2	413.0	412.7	412.4	412.0	411.7	411.3
122.5°	443.9	443.5	443.0	442.5	442.0	441.5	441.0
125°	489.8	489.1	488.4	487.7	487.0	486.3	485.5
127.5°	535.0	534.1	533.2	532.4	531.6	530.8	530.0
130°	565.6	564.9	563.9	562.7	561.5	560.3	559.0
132.5°	594.8	594.0	593.1	592.2	591.2	590.3	589.4
135°	639.0	638.3	637.8	637.4	637.1	636.7	636.4
137.5°	682.1	681.3	680.5	679.9	679.2	678.6	677.9
140°	710.8	710.6	710.0	708.7	707.5	706.3	705.1
142.5°	737.4	737.2	736.7	735.7	734.8	733.8	732.9
145°	776.4	776.2	775.8	775.1	774.4	773.7	773.0
147.5°	813.4	813.4	812.8	811.8	810.7	809.7	808.7
150°	836.2	836.2	835.7	834.6	833.5	832.4	831.4
152.5°	857.2	857.5	857.2	856.3	855.4	854.4	853.5
155°	888.0	888.7	888.4	887.2	886.0	884.7	883.5
157.5°	914.1	914.8	914.7	913.8	912.8	911.8	910.8
160°	930.4	931.2	931.3	930.6	929.9	929.2	928.5
162.5°	945.5	946.4	946.2	945.1	944.0	942.9	941.8
165°	964.8	965.9	965.8	964.6	963.3	962.1	960.9
167.5°	980.4	981.5	981.5	980.4	979.4	978.3	977.1
170°	989.1	990.3	990.3	989.1	987.8	986.6	985.3
172.5°	995.6	996.6	996.6	995.3	994.1	992.9	991.7
175°	1002.7	1003.8	1003.7	1002.5	1001.3	1000.0	998.8
177.5°	1005.7	1006.5	1006.5	1005.5	1004.5	1003.6	1002.6
180°	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1

(END OF REPORT)