

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: P332419-927

Luminaire Tested: **S123RDIW-S560D1030U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332419-927
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: S123RDIW-S560D1030U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4598.5 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

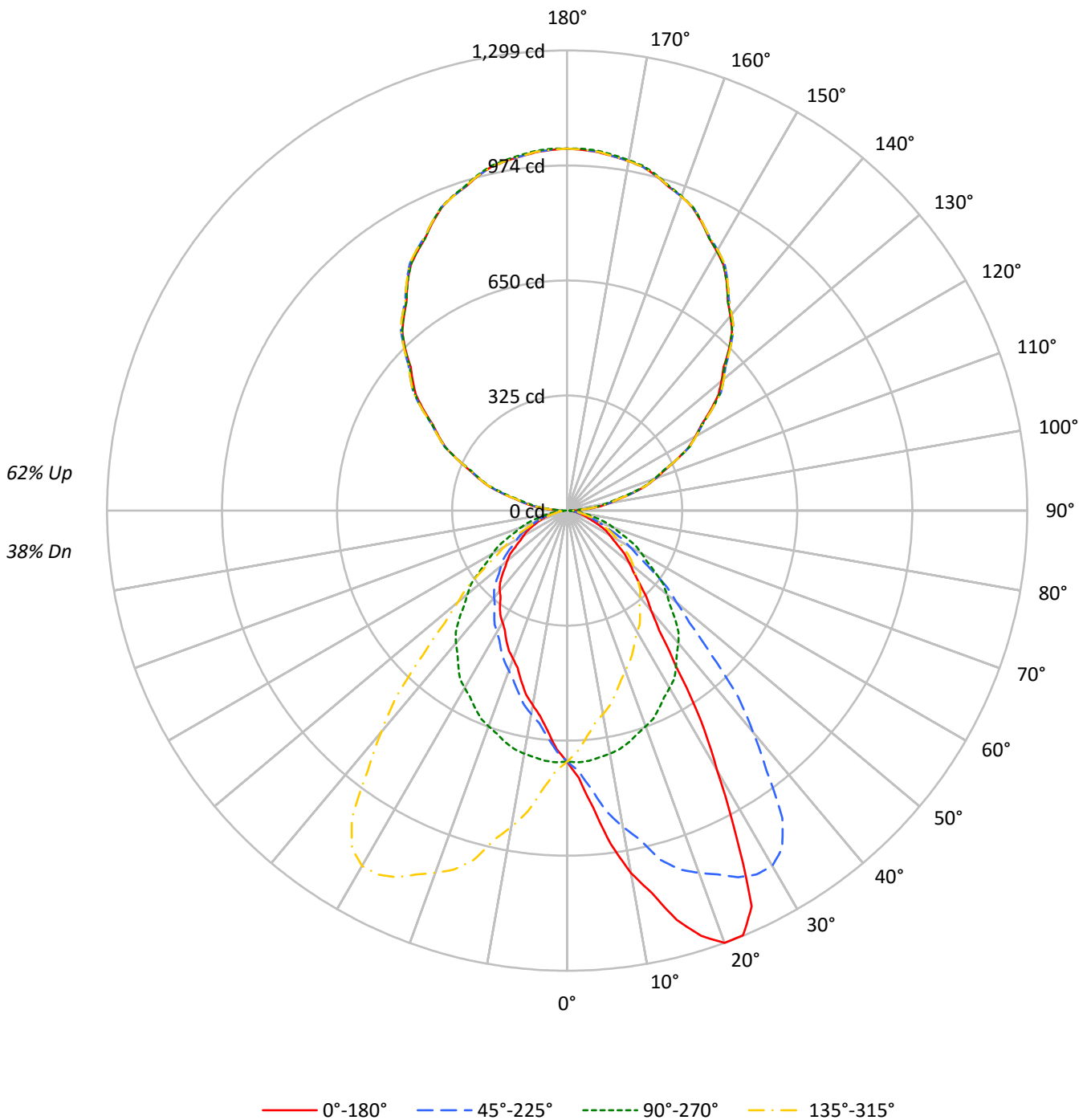
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	38
1	96	92	88	85	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	75	70	79	73	68	64	60	57	54	48	45	43	37	35	34	29
3	80	71	64	59	72	65	59	54	53	49	46	43	40	37	33	31	29	25
4	73	63	56	50	66	58	51	46	48	43	39	38	35	32	30	27	26	22
5	67	56	49	43	61	52	45	40	43	38	34	34	31	28	27	24	22	19
6	62	51	43	37	56	46	40	35	39	34	30	31	28	25	24	22	20	17
7	58	46	38	33	52	42	35	31	35	30	26	29	25	22	22	20	18	15
8	53	42	34	29	49	38	32	27	32	27	23	26	22	20	21	18	16	14
9	50	38	31	26	45	35	29	24	29	24	21	24	20	18	19	16	15	12
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7629	7629	7629	7629
5°	9095	7662	6748	7662
10°	11355	7618	6096	7618
15°	13329	7540	5558	7540
20°	14875	7424	5102	7424
25°	14638	7301	4822	7301
30°	10521	7188	4533	7188
35°	7025	7041	4346	7041
40°	5176	6864	4154	6864
45°	4341	6555	3962	6555
50°	3831	6149	3699	6149
55°	3359	5684	3337	5684
60°	2990	5240	3057	5240
65°	2626	4760	2845	4760
70°	2061	4337	2596	4337
75°	1817	3785	2371	3785
80°	1581	3217	2331	3217
85°	1272	2581	2470	2581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	1.5
10°-20°	217.8	4.7
20°-30°	342.1	7.4
30°-40°	356.9	7.8
40°-50°	305.5	6.6
50°-60°	232.8	5.1
60°-70°	149.2	3.2
70°-80°	71.8	1.6
80°-90°	22.0	0.5
90°-100°	66.6	1.4
100°-110°	199.2	4.3
110°-120°	338.8	7.4
120°-130°	445.7	9.7
130°-140°	500.9	10.9
140°-150°	492.4	10.7
150°-160°	414.5	9.0
160°-170°	275.9	6.0
170°-180°	96.6	2.1
0°-30°	629.6	13.7
0°-40°	986.5	21.5
0°-60°	1524.8	33.2
0°-90°	1767.8	38.4
90°-120°	604.6	13.1
90°-150°	2043.6	44.4
90°-180°	2831.0	61.6
0°-180°	4598.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	709	709	709	709	709	
5°	842	709	624	709	842	87
15°	1196	677	499	677	1196	339
25°	1232	615	406	615	1232	530
35°	535	536	331	536	535	351
45°	285	431	260	431	285	224
55°	179	303	178	303	179	162
65°	103	187	112	187	103	101
75°	44	91	57	91	44	47
85°	10	21	20	21	10	12
90°	24	1	24	1	24	12
95°	63	47	63	47	63	64
105°	191	181	191	181	191	203
115°	342	341	342	341	342	339
125°	494	499	494	499	494	441
135°	647	648	647	648	647	497
145°	786	786	786	786	786	490
155°	898	900	898	900	898	414
165°	977	980	977	980	977	275
175°	1015	1019	1015	1019	1015	96
180°	1022	1022	1022	1022	1022	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	754.9	755.9	752.7	752.3	748.6	747.7	747.7	742.5	739.3	735.2	732.8
5°	841.7	846.5	844.1	838.7	829.6	827.4	821.7	812.5	802.2	789.5	783.5
7.5°	950.1	956.7	954.1	945.7	936.2	928.4	912.2	897.1	875.9	857.4	841.5
10°	1038.9	1031.9	1026.5	1018.3	1009.5	995.2	978.3	954.9	927.9	906.7	883.0
12.5°	1105.4	1104.3	1097.3	1088.9	1076.5	1063.0	1042.0	1013.6	982.2	951.5	924.5
15°	1196.1	1197.9	1193.3	1184.6	1167.0	1143.0	1111.4	1099.6	1054.7	1021.3	987.9
17.5°	1258.9	1258.5	1257.8	1245.6	1227.7	1210.6	1181.4	1150.2	1109.6	1062.6	1017.6
20°	1298.6	1295.6	1296.2	1282.5	1269.2	1249.5	1221.0	1175.8	1142.4	1088.1	1041.6
22.5°	1297.7	1297.0	1299.3	1294.7	1285.0	1269.9	1247.4	1209.3	1166.6	1111.8	1059.6
25°	1232.5	1230.1	1244.4	1248.2	1263.8	1266.5	1259.8	1238.9	1198.5	1142.1	1077.4
27.5°	1031.5	1030.2	1056.6	1089.7	1131.8	1164.4	1196.0	1211.2	1198.5	1158.1	1093.4
30°	846.5	875.0	888.4	936.4	989.8	1053.4	1109.3	1162.4	1175.4	1157.9	1104.8
32.5°	702.8	727.7	738.9	780.1	829.8	904.4	988.2	1063.3	1116.5	1130.0	1098.0
35°	534.6	535.0	560.4	578.6	624.7	701.5	782.8	883.5	983.7	1059.5	1067.5
37.5°	426.6	428.1	443.5	461.7	496.3	536.9	608.5	692.2	807.9	924.3	992.6
40°	368.4	371.1	382.6	400.5	425.4	456.1	511.9	590.7	687.2	816.8	922.7
42.5°	331.0	335.4	341.4	355.1	370.5	399.3	444.4	505.3	593.0	715.6	837.7
45°	285.2	287.6	292.2	298.6	312.5	332.6	362.9	403.9	476.7	575.3	697.6
47.5°	251.6	250.3	255.1	260.3	269.6	283.2	303.6	337.0	389.0	468.0	571.8
50°	228.8	228.5	231.8	235.8	244.5	254.6	271.2	296.4	337.7	403.2	498.2
52.5°	207.4	208.6	211.0	215.9	222.2	230.3	245.3	263.4	298.9	355.5	434.6
55°	179.0	179.9	183.2	186.0	190.5	198.8	208.2	223.3	247.6	287.0	352.3
57.5°	155.0	154.6	157.8	158.4	163.6	170.2	177.5	189.3	206.9	236.2	280.2
60°	138.9	138.1	140.8	142.9	145.6	151.1	157.2	168.7	182.7	204.2	241.9
62.5°	124.4	124.0	126.0	128.1	130.3	135.3	140.5	149.2	160.3	178.5	208.3
65°	103.1	104.1	105.0	105.9	107.1	110.1	115.0	121.0	128.7	141.4	163.0
67.5°	81.0	82.0	82.3	84.1	86.7	88.6	91.7	97.0	102.3	113.0	125.3
70°	65.5	65.2	65.5	66.5	69.8	73.1	77.1	81.0	84.4	92.0	102.3
72.5°	56.3	55.8	56.6	56.7	58.4	59.3	61.8	65.5	69.8	74.9	82.4
75°	43.7	43.7	43.7	43.7	44.9	45.6	46.4	47.4	48.9	51.3	56.7
77.5°	32.3	32.3	32.8	33.0	33.4	33.7	34.2	35.2	35.6	37.0	39.3
80°	25.5	25.8	25.5	25.8	25.8	26.4	26.7	27.6	27.9	29.5	30.3
82.5°	19.2	19.0	19.2	19.5	19.5	20.1	20.1	20.8	20.9	21.6	22.6
85°	10.3	9.7	10.3	10.0	10.6	10.0	10.3	10.9	10.9	11.2	12.4
87.5°	7.2	7.7	7.1	7.3	7.2	7.4	7.2	7.1	7.4	7.0	6.8
90°	24.1	23.7	23.4	23.0	22.7	22.1	21.4	20.7	20.0	19.3	17.0
92.5°	32.4	32.6	32.9	33.0	33.3	33.1	32.6	31.9	31.4	30.8	29.5
95°	62.6	62.6	62.6	62.6	62.6	62.3	61.6	60.8	60.1	59.4	58.0
97.5°	96.3	96.4	96.5	96.5	96.6	96.3	95.4	94.6	93.8	92.9	91.9
100°	122.0	121.6	121.3	120.9	120.6	120.1	119.6	119.1	118.5	118.0	117.1
102.5°	148.3	148.4	148.5	148.5	148.6	148.4	147.8	147.3	146.8	146.2	145.0
105°	191.0	190.7	190.3	190.0	189.6	189.4	189.4	189.4	189.4	189.4	187.8
107.5°	235.4	235.7	235.9	236.1	236.3	236.1	235.6	235.0	234.4	233.9	233.2
110°	265.6	266.0	266.3	266.7	267.0	266.9	266.2	265.5	264.7	264.0	263.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	297.8	297.9	297.9	297.9	298.0	297.6	296.8	296.0	295.1	294.2	294.1
115°	341.9	342.1	342.2	342.5	342.6	342.6	342.5	342.2	342.1	341.9	342.2
117.5°	386.7	387.1	387.7	388.2	388.6	389.0	389.0	389.0	389.0	389.1	389.5
120°	418.1	418.5	418.8	419.2	419.5	419.9	420.0	420.2	420.3	420.6	421.4
122.5°	448.3	448.9	449.3	449.8	450.3	450.8	451.2	451.7	452.2	452.7	453.1
125°	493.6	494.3	495.0	495.7	496.5	497.2	497.9	498.6	499.3	500.0	500.3
127.5°	538.7	539.5	540.3	541.1	541.9	542.9	543.9	544.9	545.9	546.8	547.2
130°	568.2	569.5	570.7	572.0	573.2	574.2	574.9	575.6	576.3	577.0	577.6
132.5°	599.0	600.0	600.9	601.9	602.9	603.8	604.7	605.5	606.3	607.2	607.6
135°	646.9	647.2	647.6	647.9	648.3	648.8	649.5	650.2	650.9	651.6	651.9
137.5°	689.1	689.8	690.5	691.1	691.8	692.5	693.2	694.0	694.7	695.5	695.1
140°	716.7	718.0	719.2	720.4	721.7	722.4	722.5	722.8	722.9	723.1	722.9
142.5°	745.0	745.9	746.9	747.8	748.8	749.4	749.6	749.7	749.9	750.1	749.8
145°	785.7	786.4	787.1	787.8	788.5	789.0	789.2	789.4	789.6	789.7	789.2
147.5°	822.0	823.1	824.1	825.2	826.2	826.8	826.8	826.8	826.8	826.8	826.3
150°	845.1	846.2	847.2	848.3	849.4	849.9	849.9	849.9	849.9	849.9	849.5
152.5°	867.6	868.5	869.4	870.4	871.3	871.6	871.3	871.0	870.8	870.4	870.3
155°	898.1	899.4	900.6	901.8	903.1	903.3	902.6	901.9	901.2	900.5	900.3
157.5°	925.8	926.9	927.9	928.8	929.9	929.9	929.2	928.4	927.7	926.9	926.9
160°	943.8	944.5	945.2	945.9	946.7	946.6	945.7	944.8	943.9	943.0	943.0
162.5°	957.3	958.5	959.6	960.8	961.9	962.0	961.1	960.2	959.3	958.5	958.3
165°	976.8	977.9	979.2	980.5	981.8	981.8	980.7	979.7	978.6	977.6	977.6
167.5°	993.2	994.3	995.5	996.6	997.7	997.7	996.6	995.5	994.3	993.2	993.2
170°	1001.6	1002.8	1004.1	1005.4	1006.6	1006.6	1005.4	1004.1	1002.8	1001.6	1001.6
172.5°	1008.1	1009.2	1010.5	1011.8	1013.0	1013.1	1012.0	1010.9	1009.8	1008.7	1008.7
175°	1015.3	1016.5	1017.7	1019.0	1020.3	1020.3	1019.3	1018.2	1017.2	1016.1	1016.1
177.5°	1019.1	1020.1	1021.1	1022.1	1023.1	1023.2	1022.3	1021.4	1020.6	1019.8	1019.8
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	731.8	731.1	727.7	723.8	718.7	715.3	712.6	711.2	706.9	701.5	697.8
5°	777.1	767.9	758.3	746.4	735.5	724.3	717.3	709.1	699.1	687.9	679.9
7.5°	825.5	807.6	788.4	768.6	748.9	731.3	715.8	702.5	686.6	670.5	659.2
10°	862.6	836.5	809.5	781.9	756.7	733.1	714.9	697.0	677.9	659.3	645.4
12.5°	896.4	862.1	830.9	796.9	764.8	736.5	710.3	689.2	666.2	646.5	630.6
15°	939.1	903.9	866.3	814.7	771.9	736.1	704.3	676.6	648.7	624.5	609.0
17.5°	979.0	926.1	875.5	832.4	776.9	732.1	693.2	660.2	629.6	603.9	584.8
20°	995.5	944.3	889.3	834.4	779.8	729.8	684.5	648.1	616.2	587.1	569.5
22.5°	1005.4	947.4	889.5	830.5	772.5	720.5	675.8	635.7	601.2	573.5	551.8
25°	1017.1	947.8	884.2	825.9	766.8	710.3	657.2	614.7	577.4	548.0	524.9
27.5°	1024.7	943.3	868.0	803.3	743.2	687.1	638.4	593.3	555.5	524.3	499.6
30°	1026.2	939.7	855.6	785.5	724.5	673.0	621.4	578.3	538.3	505.2	482.1
32.5°	1028.1	930.7	838.9	764.5	702.0	650.9	604.2	563.0	522.0	489.4	465.9
35°	1020.1	925.7	813.5	727.9	665.4	615.9	573.8	535.8	495.5	463.9	440.0
37.5°	985.6	906.0	787.1	686.7	621.4	575.6	541.2	508.2	471.2	437.1	414.5
40°	950.9	886.6	766.8	661.8	593.5	546.4	515.5	488.5	452.7	420.8	396.6
42.5°	899.2	860.2	747.3	635.6	561.9	516.6	490.5	465.2	433.8	401.4	378.6
45°	804.4	809.5	707.6	593.8	518.2	472.7	448.1	430.6	402.7	376.0	352.6
47.5°	685.4	733.6	660.9	549.3	472.2	429.4	408.0	392.6	373.8	347.6	326.3
50°	607.8	676.6	623.5	519.4	443.3	400.8	379.6	367.2	350.8	330.1	309.8
52.5°	536.1	610.1	578.4	486.2	412.0	373.1	352.4	342.1	329.2	309.7	291.4
55°	437.2	512.1	504.9	436.0	365.0	330.1	314.3	302.9	294.0	279.5	264.9
57.5°	353.6	424.7	428.5	380.2	323.6	289.1	275.6	266.9	261.1	250.2	236.7
60°	301.0	366.2	379.0	342.5	294.0	263.6	250.3	243.4	238.8	230.0	219.7
62.5°	257.3	312.8	327.3	301.0	265.6	237.2	226.8	220.1	217.0	209.4	200.3
65°	196.9	243.0	257.0	242.4	223.9	201.1	192.7	186.9	184.2	179.9	173.3
67.5°	148.1	181.7	197.0	186.7	180.1	165.6	160.3	157.2	154.7	151.9	146.2
70°	118.9	143.9	159.6	156.9	151.4	143.9	139.9	137.8	135.3	132.9	128.0
72.5°	95.6	112.7	127.5	129.0	124.5	122.9	119.5	118.6	117.1	114.2	111.5
75°	63.5	75.3	85.6	89.5	91.3	92.8	91.3	91.0	90.7	88.3	86.7
77.5°	41.6	47.9	54.4	61.2	64.0	66.1	66.5	67.7	66.9	65.6	64.9
80°	31.8	33.4	37.9	43.7	48.2	50.1	51.3	51.9	51.6	51.3	50.1
82.5°	23.1	24.4	26.5	30.6	34.4	37.5	38.2	38.0	38.7	38.9	37.9
85°	12.4	12.8	13.4	13.9	16.1	19.4	20.4	20.9	21.5	21.5	19.7
87.5°	6.8	6.1	6.1	5.7	6.1	5.9	7.1	7.9	8.6	7.9	8.2
90°	14.7	12.3	10.0	7.9	6.2	4.4	2.6	0.8	2.6	4.4	6.2
92.5°	28.2	26.9	25.5	24.2	23.1	21.9	20.6	19.4	20.6	21.9	23.1
95°	56.6	55.1	53.7	52.4	51.1	49.8	48.6	47.4	48.6	49.8	51.1
97.5°	90.9	89.8	88.8	87.9	86.9	86.0	85.0	84.1	85.0	86.0	86.9
100°	116.2	115.3	114.4	113.4	112.3	111.3	110.2	109.2	110.2	111.3	112.3
102.5°	143.9	142.7	141.5	140.6	140.0	139.3	138.7	138.1	138.7	139.3	140.0
105°	186.2	184.6	183.0	182.0	181.6	181.3	180.9	180.6	180.9	181.3	181.6
107.5°	232.6	232.0	231.3	230.8	230.7	230.4	230.2	230.0	230.2	230.4	230.7
110°	263.3	263.0	262.6	262.3	261.9	261.6	261.2	260.9	261.2	261.6	261.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	294.1	294.0	293.9	293.8	293.6	293.3	293.2	292.9	293.2	293.3	293.6
115°	342.6	342.9	343.3	343.3	342.7	342.1	341.6	341.1	341.6	342.1	342.7
117.5°	390.0	390.5	390.9	391.0	390.6	390.3	389.9	389.6	389.9	390.3	390.6
120°	422.3	423.2	424.1	424.1	422.9	421.9	420.8	419.8	420.8	421.9	422.9
122.5°	453.6	454.1	454.5	454.3	453.5	452.8	452.0	451.2	452.0	452.8	453.5
125°	500.7	501.1	501.5	501.4	500.8	500.3	499.7	499.2	499.7	500.3	500.8
127.5°	547.6	548.0	548.4	548.0	546.9	545.8	544.6	543.5	544.6	545.8	546.9
130°	578.1	578.7	579.2	578.8	577.3	575.9	574.5	573.1	574.5	575.9	577.3
132.5°	608.0	608.4	608.8	608.3	606.9	605.4	604.0	602.5	604.0	605.4	606.9
135°	652.0	652.2	652.4	652.0	650.9	649.8	648.7	647.7	648.7	649.8	650.9
137.5°	694.6	694.1	693.6	693.0	692.1	691.2	690.3	689.4	690.3	691.2	692.1
140°	722.8	722.5	722.4	721.8	721.0	720.1	719.2	718.3	719.2	720.1	721.0
142.5°	749.4	749.1	748.8	748.2	747.3	746.4	745.5	744.7	745.5	746.4	747.3
145°	788.7	788.1	787.6	787.1	786.8	786.4	786.1	785.7	786.1	786.4	786.8
147.5°	825.9	825.3	824.8	824.3	823.6	822.9	822.3	821.7	822.3	822.9	823.6
150°	849.2	848.8	848.5	848.1	847.8	847.4	847.1	846.7	847.1	847.4	847.8
152.5°	870.1	869.8	869.6	869.3	868.8	868.2	867.8	867.3	867.8	868.2	868.8
155°	900.2	899.9	899.8	899.7	899.7	899.7	899.7	899.7	899.7	899.7	899.7
157.5°	926.7	926.5	926.4	926.5	926.6	926.9	927.1	927.3	927.1	926.9	926.6
160°	943.0	943.0	943.0	943.2	943.6	943.9	944.3	944.6	944.3	943.9	943.6
162.5°	958.1	958.0	957.8	958.1	958.5	959.0	959.6	960.0	959.6	959.0	958.5
165°	977.6	977.6	977.6	977.8	978.3	978.9	979.4	979.9	979.4	978.9	978.3
167.5°	993.0	992.8	992.7	993.0	993.7	994.4	995.1	995.9	995.1	994.4	993.7
170°	1001.6	1001.6	1001.6	1002.0	1002.7	1003.4	1004.1	1004.8	1004.1	1003.4	1002.7
172.5°	1008.7	1008.7	1008.7	1009.0	1009.7	1010.4	1011.1	1011.9	1011.1	1010.4	1009.7
175°	1016.1	1016.1	1016.1	1016.4	1017.2	1017.9	1018.6	1019.3	1018.6	1017.9	1017.2
177.5°	1019.8	1019.8	1019.8	1020.0	1020.6	1021.2	1021.8	1022.3	1021.8	1021.2	1020.6
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



TEST NUMBER: P332419-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	696.6	693.5	691.3	686.4	683.3	679.9	676.5	678.7	678.4	678.2	678.2
5°	673.3	666.3	660.0	651.7	646.6	640.2	635.3	634.8	636.0	631.7	629.3
7.5°	650.1	640.6	631.5	622.5	612.9	605.2	600.5	598.3	595.2	592.6	589.8
10°	633.8	622.7	613.8	602.6	592.3	583.2	577.4	573.5	571.3	569.2	565.3
12.5°	617.1	606.1	594.8	582.2	572.4	561.8	557.5	553.1	549.0	546.6	541.2
15°	592.6	578.3	566.5	553.1	542.2	531.9	525.9	517.1	515.8	512.8	507.3
17.5°	568.0	552.5	536.2	526.3	514.0	503.3	494.0	491.1	482.4	479.1	474.4
20°	548.6	534.3	521.9	508.8	490.9	480.9	473.6	469.7	462.7	458.4	455.4
22.5°	531.9	517.3	503.0	487.7	472.9	461.8	456.4	450.3	446.5	440.5	437.2
25°	507.9	492.2	474.8	458.4	447.8	439.3	430.9	425.4	419.9	417.2	411.1
27.5°	480.1	463.7	447.5	435.1	422.0	413.6	405.9	401.1	394.5	389.9	386.6
30°	464.9	445.4	431.5	420.3	403.5	395.7	389.9	383.8	379.0	374.1	370.7
32.5°	447.1	429.4	416.1	402.3	389.4	380.9	373.4	368.0	363.9	359.3	356.0
35°	419.3	404.5	390.8	376.8	367.4	358.6	349.8	345.3	341.4	337.1	334.1
37.5°	394.2	380.3	367.3	354.1	342.5	335.3	328.2	324.7	319.4	316.6	313.5
40°	378.7	365.0	351.1	338.3	326.1	320.8	314.3	309.2	304.4	302.2	298.9
42.5°	361.7	348.0	336.3	322.5	312.6	305.1	299.3	293.7	290.0	286.9	285.0
45°	336.5	324.3	312.8	299.2	289.8	283.4	276.7	271.6	268.2	266.1	262.8
47.5°	312.0	299.9	288.2	276.3	267.2	259.9	253.3	249.6	245.3	242.6	240.3
50°	294.3	283.4	270.9	260.0	251.0	243.7	238.2	233.6	229.7	226.3	224.8
52.5°	278.1	266.4	255.6	245.5	235.9	227.6	222.7	217.9	214.9	211.0	209.3
55°	251.2	240.0	230.9	220.9	211.5	204.5	198.4	194.2	191.2	186.9	184.5
57.5°	226.0	215.9	205.1	196.5	186.7	180.9	175.8	170.0	166.4	163.0	160.7
60°	209.1	197.5	188.1	179.9	171.4	163.8	159.3	154.7	150.8	147.4	145.4
62.5°	191.3	181.3	172.4	163.4	155.7	149.0	143.8	139.9	136.5	134.4	132.2
65°	164.1	156.3	147.2	139.9	132.6	127.8	123.5	120.2	117.7	116.2	114.4
67.5°	139.2	131.5	123.6	116.4	111.5	107.8	105.0	102.2	101.0	99.0	97.8
70°	122.9	115.0	108.1	102.6	97.7	95.0	93.2	91.0	89.8	87.4	86.2
72.5°	105.2	99.5	94.4	89.9	86.0	83.6	81.3	78.7	76.7	74.1	72.8
75°	82.9	77.7	73.8	70.7	68.3	65.0	61.6	58.9	58.0	57.0	56.7
77.5°	61.3	58.1	55.2	52.7	49.7	47.2	46.5	45.9	45.7	45.2	45.2
80°	48.2	45.2	43.1	40.1	38.3	38.3	38.3	37.6	37.9	37.9	37.9
82.5°	35.9	33.0	31.9	30.8	30.5	30.7	30.7	30.8	30.7	31.1	30.9
85°	18.5	18.8	19.4	19.1	19.4	19.4	20.0	19.7	20.0	19.4	20.0
87.5°	8.4	9.5	10.2	10.9	11.6	11.9	12.3	12.4	12.8	12.9	13.0
90°	7.9	10.0	12.3	14.7	17.0	19.3	20.0	20.7	21.4	22.1	22.7
92.5°	24.2	25.5	26.9	28.2	29.5	30.8	31.4	31.9	32.6	33.1	33.3
95°	52.4	53.7	55.1	56.6	58.0	59.4	60.1	60.8	61.6	62.3	62.6
97.5°	87.9	88.8	89.8	90.9	91.9	92.9	93.8	94.6	95.4	96.3	96.6
100°	113.4	114.4	115.3	116.2	117.1	118.0	118.5	119.1	119.6	120.1	120.6
102.5°	140.6	141.5	142.7	143.9	145.0	146.2	146.8	147.3	147.8	148.4	148.6
105°	182.0	183.0	184.6	186.2	187.8	189.4	189.4	189.4	189.4	189.4	189.6
107.5°	230.8	231.3	232.0	232.6	233.2	233.9	234.4	235.0	235.6	236.1	236.3
110°	262.3	262.6	263.0	263.3	263.7	264.0	264.7	265.5	266.2	266.9	267.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	293.8	293.9	294.0	294.1	294.1	294.2	295.1	296.0	296.8	297.6	298.0
115°	343.3	343.3	342.9	342.6	342.2	341.9	342.1	342.2	342.5	342.6	342.6
117.5°	391.0	390.9	390.5	390.0	389.5	389.1	389.0	389.0	389.0	389.0	388.6
120°	424.1	424.1	423.2	422.3	421.4	420.6	420.3	420.2	420.0	419.9	419.5
122.5°	454.3	454.5	454.1	453.6	453.1	452.7	452.2	451.7	451.2	450.8	450.3
125°	501.4	501.5	501.1	500.7	500.3	500.0	499.3	498.6	497.9	497.2	496.5
127.5°	548.0	548.4	548.0	547.6	547.2	546.8	545.9	544.9	543.9	542.9	541.9
130°	578.8	579.2	578.7	578.1	577.6	577.0	576.3	575.6	574.9	574.2	573.2
132.5°	608.3	608.8	608.4	608.0	607.6	607.2	606.3	605.5	604.7	603.8	602.9
135°	652.0	652.4	652.2	652.0	651.9	651.6	650.9	650.2	649.5	648.8	648.3
137.5°	693.0	693.6	694.1	694.6	695.1	695.5	694.7	694.0	693.2	692.5	691.8
140°	721.8	722.4	722.5	722.8	722.9	723.1	722.9	722.8	722.5	722.4	721.7
142.5°	748.2	748.8	749.1	749.4	749.8	750.1	749.9	749.7	749.6	749.4	748.8
145°	787.1	787.6	788.1	788.7	789.2	789.7	789.6	789.4	789.2	789.0	788.5
147.5°	824.3	824.8	825.3	825.9	826.3	826.8	826.8	826.8	826.8	826.8	826.2
150°	848.1	848.5	848.8	849.2	849.5	849.9	849.9	849.9	849.9	849.9	849.4
152.5°	869.3	869.6	869.8	870.1	870.3	870.4	870.8	871.0	871.3	871.6	871.3
155°	899.7	899.8	899.9	900.2	900.3	900.5	901.2	901.9	902.6	903.3	903.1
157.5°	926.5	926.4	926.5	926.7	926.9	926.9	927.7	928.4	929.2	929.9	929.9
160°	943.2	943.0	943.0	943.0	943.0	943.0	943.9	944.8	945.7	946.6	946.7
162.5°	958.1	957.8	958.0	958.1	958.3	958.5	959.3	960.2	961.1	962.0	961.9
165°	977.8	977.6	977.6	977.6	977.6	977.6	978.6	979.7	980.7	981.8	981.8
167.5°	993.0	992.7	992.8	993.0	993.2	993.2	994.3	995.5	996.6	997.7	997.7
170°	1002.0	1001.6	1001.6	1001.6	1001.6	1001.6	1002.8	1004.1	1005.4	1006.6	1006.6
172.5°	1009.0	1008.7	1008.7	1008.7	1008.7	1008.7	1009.8	1010.9	1012.0	1013.1	1013.0
175°	1016.4	1016.1	1016.1	1016.1	1016.1	1016.1	1017.2	1018.2	1019.3	1020.3	1020.3
177.5°	1020.0	1019.8	1019.8	1019.8	1019.8	1019.8	1020.6	1021.4	1022.3	1023.2	1023.1
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



TEST NUMBER: P332419-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	675.3	675.0	675.3	674.3	675.3	675.0	675.3	678.2	678.2	678.4	678.7
5°	628.4	628.0	627.2	624.5	627.2	628.0	628.4	629.3	631.7	636.0	634.8
7.5°	587.4	587.0	584.3	584.4	584.3	587.0	587.4	589.8	592.6	595.2	598.3
10°	563.2	563.5	559.8	557.7	559.8	563.5	563.2	565.3	569.2	571.3	573.5
12.5°	539.6	538.2	535.3	532.9	535.3	538.2	539.6	541.2	546.6	549.0	553.1
15°	508.5	505.5	498.2	498.8	498.2	505.5	508.5	507.3	512.8	515.8	517.1
17.5°	471.9	469.7	469.6	465.3	469.6	469.7	471.9	474.4	479.1	482.4	491.1
20°	450.6	449.1	449.6	445.4	449.6	449.1	450.6	455.4	458.4	462.7	469.7
22.5°	433.8	432.3	429.8	428.4	429.8	432.3	433.8	437.2	440.5	446.5	450.3
25°	409.3	406.9	404.5	406.0	404.5	406.9	409.3	411.1	417.2	419.9	425.4
27.5°	384.8	382.9	380.6	380.2	380.6	382.9	384.8	386.6	389.9	394.5	401.1
30°	369.2	367.4	366.2	364.7	366.2	367.4	369.2	370.7	374.1	379.0	383.8
32.5°	353.5	353.2	350.9	350.6	350.9	353.2	353.5	356.0	359.3	363.9	368.0
35°	332.9	331.1	330.4	330.7	330.4	331.1	332.9	334.1	337.1	341.4	345.3
37.5°	313.2	310.9	309.7	308.6	309.7	310.9	313.2	313.5	316.6	319.4	324.7
40°	299.2	296.8	296.1	295.6	296.1	296.8	299.2	298.9	302.2	304.4	309.2
42.5°	283.4	282.4	282.1	281.0	282.1	282.4	283.4	285.0	286.9	290.0	293.7
45°	261.8	261.6	259.8	260.3	259.8	261.6	261.8	262.8	266.1	268.2	271.6
47.5°	239.2	237.8	236.5	237.4	236.5	237.8	239.2	240.3	242.6	245.3	249.6
50°	223.6	223.0	220.3	220.9	220.3	223.0	223.6	224.8	226.3	229.7	233.6
52.5°	208.1	205.8	204.8	204.4	204.8	205.8	208.1	209.3	211.0	214.9	217.9
55°	182.4	179.6	178.4	177.8	178.4	179.6	182.4	184.5	186.9	191.2	194.2
57.5°	157.1	156.4	155.4	156.1	155.4	156.4	157.1	160.7	163.0	166.4	170.0
60°	142.3	142.3	142.3	142.0	142.3	142.3	142.3	145.4	147.4	150.8	154.7
62.5°	130.9	130.2	129.9	130.3	129.9	130.2	130.9	132.2	134.4	136.5	139.9
65°	113.4	113.2	111.9	111.7	111.9	113.2	113.4	114.4	116.2	117.7	120.2
67.5°	97.0	95.9	95.6	95.1	95.6	95.9	97.0	97.8	99.0	101.0	102.2
70°	84.7	84.1	82.2	82.5	82.2	84.1	84.7	86.2	87.4	89.8	91.0
72.5°	71.3	70.7	70.3	69.9	70.3	70.7	71.3	72.8	74.1	76.7	78.7
75°	56.4	56.2	55.8	57.0	55.8	56.2	56.4	56.7	57.0	58.0	58.9
77.5°	45.2	45.2	45.4	44.9	45.4	45.2	45.2	45.2	45.2	45.7	45.9
80°	37.9	37.9	37.6	37.6	37.6	37.9	37.9	37.9	37.9	37.9	37.6
82.5°	30.4	30.7	30.8	30.3	30.8	30.7	30.4	30.9	31.1	30.7	30.8
85°	20.0	19.7	20.4	20.0	20.4	19.7	20.0	20.0	19.4	20.0	19.7
87.5°	13.5	13.2	13.2	13.5	13.2	13.2	13.5	13.0	12.9	12.8	12.4
90°	23.0	23.4	23.7	24.1	23.7	23.4	23.0	22.7	22.1	21.4	20.7
92.5°	33.0	32.9	32.6	32.4	32.6	32.9	33.0	33.3	33.1	32.6	31.9
95°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.3	61.6	60.8
97.5°	96.5	96.5	96.4	96.3	96.4	96.5	96.5	96.6	96.3	95.4	94.6
100°	120.9	121.3	121.6	122.0	121.6	121.3	120.9	120.6	120.1	119.6	119.1
102.5°	148.5	148.5	148.4	148.3	148.4	148.5	148.5	148.6	148.4	147.8	147.3
105°	190.0	190.3	190.7	191.0	190.7	190.3	190.0	189.6	189.4	189.4	189.4
107.5°	236.1	235.9	235.7	235.4	235.7	235.9	236.1	236.3	236.1	235.6	235.0
110°	266.7	266.3	266.0	265.6	266.0	266.3	266.7	267.0	266.9	266.2	265.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	297.9	297.9	297.9	297.8	297.9	297.9	297.9	298.0	297.6	296.8	296.0
115°	342.5	342.2	342.1	341.9	342.1	342.2	342.5	342.6	342.6	342.5	342.2
117.5°	388.2	387.7	387.1	386.7	387.1	387.7	388.2	388.6	389.0	389.0	389.0
120°	419.2	418.8	418.5	418.1	418.5	418.8	419.2	419.5	419.9	420.0	420.2
122.5°	449.8	449.3	448.9	448.3	448.9	449.3	449.8	450.3	450.8	451.2	451.7
125°	495.7	495.0	494.3	493.6	494.3	495.0	495.7	496.5	497.2	497.9	498.6
127.5°	541.1	540.3	539.5	538.7	539.5	540.3	541.1	541.9	542.9	543.9	544.9
130°	572.0	570.7	569.5	568.2	569.5	570.7	572.0	573.2	574.2	574.9	575.6
132.5°	601.9	600.9	600.0	599.0	600.0	600.9	601.9	602.9	603.8	604.7	605.5
135°	647.9	647.6	647.2	646.9	647.2	647.6	647.9	648.3	648.8	649.5	650.2
137.5°	691.1	690.5	689.8	689.1	689.8	690.5	691.1	691.8	692.5	693.2	694.0
140°	720.4	719.2	718.0	716.7	718.0	719.2	720.4	721.7	722.4	722.5	722.8
142.5°	747.8	746.9	745.9	745.0	745.9	746.9	747.8	748.8	749.4	749.6	749.7
145°	787.8	787.1	786.4	785.7	786.4	787.1	787.8	788.5	789.0	789.2	789.4
147.5°	825.2	824.1	823.1	822.0	823.1	824.1	825.2	826.2	826.8	826.8	826.8
150°	848.3	847.2	846.2	845.1	846.2	847.2	848.3	849.4	849.9	849.9	849.9
152.5°	870.4	869.4	868.5	867.6	868.5	869.4	870.4	871.3	871.6	871.3	871.0
155°	901.8	900.6	899.4	898.1	899.4	900.6	901.8	903.1	903.3	902.6	901.9
157.5°	928.8	927.9	926.9	925.8	926.9	927.9	928.8	929.9	929.9	929.2	928.4
160°	945.9	945.2	944.5	943.8	944.5	945.2	945.9	946.7	946.6	945.7	944.8
162.5°	960.8	959.6	958.5	957.3	958.5	959.6	960.8	961.9	962.0	961.1	960.2
165°	980.5	979.2	977.9	976.8	977.9	979.2	980.5	981.8	981.8	980.7	979.7
167.5°	996.6	995.5	994.3	993.2	994.3	995.5	996.6	997.7	997.7	996.6	995.5
170°	1005.4	1004.1	1002.8	1001.6	1002.8	1004.1	1005.4	1006.6	1006.6	1005.4	1004.1
172.5°	1011.8	1010.5	1009.2	1008.1	1009.2	1010.5	1011.8	1013.0	1013.1	1012.0	1010.9
175°	1019.0	1017.7	1016.5	1015.3	1016.5	1017.7	1019.0	1020.3	1020.3	1019.3	1018.2
177.5°	1022.1	1021.1	1020.1	1019.1	1020.1	1021.1	1022.1	1023.1	1023.2	1022.3	1021.4
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



TEST NUMBER: P332419-927

CATALOG NUMBER: S123RDIW-S560D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	676.5	679.9	683.3	686.4	691.3	693.5	696.6	697.8	701.5	706.9	711.2
5°	635.3	640.2	646.6	651.7	660.0	666.3	673.3	679.9	687.9	699.1	709.1
7.5°	600.5	605.2	612.9	622.5	631.5	640.6	650.1	659.2	670.5	686.6	702.5
10°	577.4	583.2	592.3	602.6	613.8	622.7	633.8	645.4	659.3	677.9	697.0
12.5°	557.5	561.8	572.4	582.2	594.8	606.1	617.1	630.6	646.5	666.2	689.2
15°	525.9	531.9	542.2	553.1	566.5	578.3	592.6	609.0	624.5	648.7	676.6
17.5°	494.0	503.3	514.0	526.3	536.2	552.5	568.0	584.8	603.9	629.6	660.2
20°	473.6	480.9	490.9	508.8	521.9	534.3	548.6	569.5	587.1	616.2	648.1
22.5°	456.4	461.8	472.9	487.7	503.0	517.3	531.9	551.8	573.5	601.2	635.7
25°	430.9	439.3	447.8	458.4	474.8	492.2	507.9	524.9	548.0	577.4	614.7
27.5°	405.9	413.6	422.0	435.1	447.5	463.7	480.1	499.6	524.3	555.5	593.3
30°	389.9	395.7	403.5	420.3	431.5	445.4	464.9	482.1	505.2	538.3	578.3
32.5°	373.4	380.9	389.4	402.3	416.1	429.4	447.1	465.9	489.4	522.0	563.0
35°	349.8	358.6	367.4	376.8	390.8	404.5	419.3	440.0	463.9	495.5	535.8
37.5°	328.2	335.3	342.5	354.1	367.3	380.3	394.2	414.5	437.1	471.2	508.2
40°	314.3	320.8	326.1	338.3	351.1	365.0	378.7	396.6	420.8	452.7	488.5
42.5°	299.3	305.1	312.6	322.5	336.3	348.0	361.7	378.6	401.4	433.8	465.2
45°	276.7	283.4	289.8	299.2	312.8	324.3	336.5	352.6	376.0	402.7	430.6
47.5°	253.3	259.9	267.2	276.3	288.2	299.9	312.0	326.3	347.6	373.8	392.6
50°	238.2	243.7	251.0	260.0	270.9	283.4	294.3	309.8	330.1	350.8	367.2
52.5°	222.7	227.6	235.9	245.5	255.6	266.4	278.1	291.4	309.7	329.2	342.1
55°	198.4	204.5	211.5	220.9	230.9	240.0	251.2	264.9	279.5	294.0	302.9
57.5°	175.8	180.9	186.7	196.5	205.1	215.9	226.0	236.7	250.2	261.1	266.9
60°	159.3	163.8	171.4	179.9	188.1	197.5	209.1	219.7	230.0	238.8	243.4
62.5°	143.8	149.0	155.7	163.4	172.4	181.3	191.3	200.3	209.4	217.0	220.1
65°	123.5	127.8	132.6	139.9	147.2	156.3	164.1	173.3	179.9	184.2	186.9
67.5°	105.0	107.8	111.5	116.4	123.6	131.5	139.2	146.2	151.9	154.7	157.2
70°	93.2	95.0	97.7	102.6	108.1	115.0	122.9	128.0	132.9	135.3	137.8
72.5°	81.3	83.6	86.0	89.9	94.4	99.5	105.2	111.5	114.2	117.1	118.6
75°	61.6	65.0	68.3	70.7	73.8	77.7	82.9	86.7	88.3	90.7	91.0
77.5°	46.5	47.2	49.7	52.7	55.2	58.1	61.3	64.9	65.6	66.9	67.7
80°	38.3	38.3	38.3	40.1	43.1	45.2	48.2	50.1	51.3	51.6	51.9
82.5°	30.7	30.7	30.5	30.8	31.9	33.0	35.9	37.9	38.9	38.7	38.0
85°	20.0	19.4	19.4	19.1	19.4	18.8	18.5	19.7	21.5	21.5	20.9
87.5°	12.3	11.9	11.6	10.9	10.2	9.5	8.4	8.2	7.9	8.6	7.9
90°	20.0	19.3	17.0	14.7	12.3	10.0	7.9	6.2	4.4	2.6	0.8
92.5°	31.4	30.8	29.5	28.2	26.9	25.5	24.2	23.1	21.9	20.6	19.4
95°	60.1	59.4	58.0	56.6	55.1	53.7	52.4	51.1	49.8	48.6	47.4
97.5°	93.8	92.9	91.9	90.9	89.8	88.8	87.9	86.9	86.0	85.0	84.1
100°	118.5	118.0	117.1	116.2	115.3	114.4	113.4	112.3	111.3	110.2	109.2
102.5°	146.8	146.2	145.0	143.9	142.7	141.5	140.6	140.0	139.3	138.7	138.1
105°	189.4	189.4	187.8	186.2	184.6	183.0	182.0	181.6	181.3	180.9	180.6
107.5°	234.4	233.9	233.2	232.6	232.0	231.3	230.8	230.7	230.4	230.2	230.0
110°	264.7	264.0	263.7	263.3	263.0	262.6	262.3	261.9	261.6	261.2	260.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	295.1	294.2	294.1	294.1	294.0	293.9	293.8	293.6	293.3	293.2	292.9
115°	342.1	341.9	342.2	342.6	342.9	343.3	343.3	342.7	342.1	341.6	341.1
117.5°	389.0	389.1	389.5	390.0	390.5	390.9	391.0	390.6	390.3	389.9	389.6
120°	420.3	420.6	421.4	422.3	423.2	424.1	424.1	422.9	421.9	420.8	419.8
122.5°	452.2	452.7	453.1	453.6	454.1	454.5	454.3	453.5	452.8	452.0	451.2
125°	499.3	500.0	500.3	500.7	501.1	501.5	501.4	500.8	500.3	499.7	499.2
127.5°	545.9	546.8	547.2	547.6	548.0	548.4	548.0	546.9	545.8	544.6	543.5
130°	576.3	577.0	577.6	578.1	578.7	579.2	578.8	577.3	575.9	574.5	573.1
132.5°	606.3	607.2	607.6	608.0	608.4	608.8	608.3	606.9	605.4	604.0	602.5
135°	650.9	651.6	651.9	652.0	652.2	652.4	652.0	650.9	649.8	648.7	647.7
137.5°	694.7	695.5	695.1	694.6	694.1	693.6	693.0	692.1	691.2	690.3	689.4
140°	722.9	723.1	722.9	722.8	722.5	722.4	721.8	721.0	720.1	719.2	718.3
142.5°	749.9	750.1	749.8	749.4	749.1	748.8	748.2	747.3	746.4	745.5	744.7
145°	789.6	789.7	789.2	788.7	788.1	787.6	787.1	786.8	786.4	786.1	785.7
147.5°	826.8	826.8	826.3	825.9	825.3	824.8	824.3	823.6	822.9	822.3	821.7
150°	849.9	849.9	849.5	849.2	848.8	848.5	848.1	847.8	847.4	847.1	846.7
152.5°	870.8	870.4	870.3	870.1	869.8	869.6	869.3	868.8	868.2	867.8	867.3
155°	901.2	900.5	900.3	900.2	899.9	899.8	899.7	899.7	899.7	899.7	899.7
157.5°	927.7	926.9	926.9	926.7	926.5	926.4	926.5	926.6	926.9	927.1	927.3
160°	943.9	943.0	943.0	943.0	943.0	943.0	943.2	943.6	943.9	944.3	944.6
162.5°	959.3	958.5	958.3	958.1	958.0	957.8	958.1	958.5	959.0	959.6	960.0
165°	978.6	977.6	977.6	977.6	977.6	977.6	977.8	978.3	978.9	979.4	979.9
167.5°	994.3	993.2	993.2	993.0	992.8	992.7	993.0	993.7	994.4	995.1	995.9
170°	1002.8	1001.6	1001.6	1001.6	1001.6	1001.6	1002.0	1002.7	1003.4	1004.1	1004.8
172.5°	1009.8	1008.7	1008.7	1008.7	1008.7	1008.7	1009.0	1009.7	1010.4	1011.1	1011.9
175°	1017.2	1016.1	1016.1	1016.1	1016.1	1016.1	1016.4	1017.2	1017.9	1018.6	1019.3
177.5°	1020.6	1019.8	1019.8	1019.8	1019.8	1019.8	1020.0	1020.6	1021.2	1021.8	1022.3
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	712.6	715.3	718.7	723.8	727.7	731.1	731.8	732.8	735.2	739.3	742.5
5°	717.3	724.3	735.5	746.4	758.3	767.9	777.1	783.5	789.5	802.2	812.5
7.5°	715.8	731.3	748.9	768.6	788.4	807.6	825.5	841.5	857.4	875.9	897.1
10°	714.9	733.1	756.7	781.9	809.5	836.5	862.6	883.0	906.7	927.9	954.9
12.5°	710.3	736.5	764.8	796.9	830.9	862.1	896.4	924.5	951.5	982.2	1013.6
15°	704.3	736.1	771.9	814.7	866.3	903.9	939.1	987.9	1021.3	1054.7	1099.6
17.5°	693.2	732.1	776.9	832.4	875.5	926.1	979.0	1017.6	1062.6	1109.6	1150.2
20°	684.5	729.8	779.8	834.4	889.3	944.3	995.5	1041.6	1088.1	1142.4	1175.8
22.5°	675.8	720.5	772.5	830.5	889.5	947.4	1005.4	1059.6	1111.8	1166.6	1209.3
25°	657.2	710.3	766.8	825.9	884.2	947.8	1017.1	1077.4	1142.1	1198.5	1238.9
27.5°	638.4	687.1	743.2	803.3	868.0	943.3	1024.7	1093.4	1158.1	1198.5	1211.2
30°	621.4	673.0	724.5	785.5	855.6	939.7	1026.2	1104.8	1157.9	1175.4	1162.4
32.5°	604.2	650.9	702.0	764.5	838.9	930.7	1028.1	1098.0	1130.0	1116.5	1063.3
35°	573.8	615.9	665.4	727.9	813.5	925.7	1020.1	1067.5	1059.5	983.7	883.5
37.5°	541.2	575.6	621.4	686.7	787.1	906.0	985.6	992.6	924.3	807.9	692.2
40°	515.5	546.4	593.5	661.8	766.8	886.6	950.9	922.7	816.8	687.2	590.7
42.5°	490.5	516.6	561.9	635.6	747.3	860.2	899.2	837.7	715.6	593.0	505.3
45°	448.1	472.7	518.2	593.8	707.6	809.5	804.4	697.6	575.3	476.7	403.9
47.5°	408.0	429.4	472.2	549.3	660.9	733.6	685.4	571.8	468.0	389.0	337.0
50°	379.6	400.8	443.3	519.4	623.5	676.6	607.8	498.2	403.2	337.7	296.4
52.5°	352.4	373.1	412.0	486.2	578.4	610.1	536.1	434.6	355.5	298.9	263.4
55°	314.3	330.1	365.0	436.0	504.9	512.1	437.2	352.3	287.0	247.6	223.3
57.5°	275.6	289.1	323.6	380.2	428.5	424.7	353.6	280.2	236.2	206.9	189.3
60°	250.3	263.6	294.0	342.5	379.0	366.2	301.0	241.9	204.2	182.7	168.7
62.5°	226.8	237.2	265.6	301.0	327.3	312.8	257.3	208.3	178.5	160.3	149.2
65°	192.7	201.1	223.9	242.4	257.0	243.0	196.9	163.0	141.4	128.7	121.0
67.5°	160.3	165.6	180.1	186.7	197.0	181.7	148.1	125.3	113.0	102.3	97.0
70°	139.9	143.9	151.4	156.9	159.6	143.9	118.9	102.3	92.0	84.4	81.0
72.5°	119.5	122.9	124.5	129.0	127.5	112.7	95.6	82.4	74.9	69.8	65.5
75°	91.3	92.8	91.3	89.5	85.6	75.3	63.5	56.7	51.3	48.9	47.4
77.5°	66.5	66.1	64.0	61.2	54.4	47.9	41.6	39.3	37.0	35.6	35.2
80°	51.3	50.1	48.2	43.7	37.9	33.4	31.8	30.3	29.5	27.9	27.6
82.5°	38.2	37.5	34.4	30.6	26.5	24.4	23.1	22.6	21.6	20.9	20.8
85°	20.4	19.4	16.1	13.9	13.4	12.8	12.4	12.4	11.2	10.9	10.9
87.5°	7.1	5.9	6.1	5.7	6.1	6.1	6.8	6.8	7.0	7.4	7.1
90°	2.6	4.4	6.2	7.9	10.0	12.3	14.7	17.0	19.3	20.0	20.7
92.5°	20.6	21.9	23.1	24.2	25.5	26.9	28.2	29.5	30.8	31.4	31.9
95°	48.6	49.8	51.1	52.4	53.7	55.1	56.6	58.0	59.4	60.1	60.8
97.5°	85.0	86.0	86.9	87.9	88.8	89.8	90.9	91.9	92.9	93.8	94.6
100°	110.2	111.3	112.3	113.4	114.4	115.3	116.2	117.1	118.0	118.5	119.1
102.5°	138.7	139.3	140.0	140.6	141.5	142.7	143.9	145.0	146.2	146.8	147.3
105°	180.9	181.3	181.6	182.0	183.0	184.6	186.2	187.8	189.4	189.4	189.4
107.5°	230.2	230.4	230.7	230.8	231.3	232.0	232.6	233.2	233.9	234.4	235.0
110°	261.2	261.6	261.9	262.3	262.6	263.0	263.3	263.7	264.0	264.7	265.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	293.2	293.3	293.6	293.8	293.9	294.0	294.1	294.1	294.2	295.1	296.0
115°	341.6	342.1	342.7	343.3	343.3	342.9	342.6	342.2	341.9	342.1	342.2
117.5°	389.9	390.3	390.6	391.0	390.9	390.5	390.0	389.5	389.1	389.0	389.0
120°	420.8	421.9	422.9	424.1	424.1	423.2	422.3	421.4	420.6	420.3	420.2
122.5°	452.0	452.8	453.5	454.3	454.5	454.1	453.6	453.1	452.7	452.2	451.7
125°	499.7	500.3	500.8	501.4	501.5	501.1	500.7	500.3	500.0	499.3	498.6
127.5°	544.6	545.8	546.9	548.0	548.4	548.0	547.6	547.2	546.8	545.9	544.9
130°	574.5	575.9	577.3	578.8	579.2	578.7	578.1	577.6	577.0	576.3	575.6
132.5°	604.0	605.4	606.9	608.3	608.8	608.4	608.0	607.6	607.2	606.3	605.5
135°	648.7	649.8	650.9	652.0	652.4	652.2	652.0	651.9	651.6	650.9	650.2
137.5°	690.3	691.2	692.1	693.0	693.6	694.1	694.6	695.1	695.5	694.7	694.0
140°	719.2	720.1	721.0	721.8	722.4	722.5	722.8	722.9	723.1	722.9	722.8
142.5°	745.5	746.4	747.3	748.2	748.8	749.1	749.4	749.8	750.1	749.9	749.7
145°	786.1	786.4	786.8	787.1	787.6	788.1	788.7	789.2	789.7	789.6	789.4
147.5°	822.3	822.9	823.6	824.3	824.8	825.3	825.9	826.3	826.8	826.8	826.8
150°	847.1	847.4	847.8	848.1	848.5	848.8	849.2	849.5	849.9	849.9	849.9
152.5°	867.8	868.2	868.8	869.3	869.6	869.8	870.1	870.3	870.4	870.8	871.0
155°	899.7	899.7	899.7	899.7	899.8	899.9	900.2	900.3	900.5	901.2	901.9
157.5°	927.1	926.9	926.6	926.5	926.4	926.5	926.7	926.9	926.9	927.7	928.4
160°	944.3	943.9	943.6	943.2	943.0	943.0	943.0	943.0	943.0	943.9	944.8
162.5°	959.6	959.0	958.5	958.1	957.8	958.0	958.1	958.3	958.5	959.3	960.2
165°	979.4	978.9	978.3	977.8	977.6	977.6	977.6	977.6	977.6	978.6	979.7
167.5°	995.1	994.4	993.7	993.0	992.7	992.8	993.0	993.2	993.2	994.3	995.5
170°	1004.1	1003.4	1002.7	1002.0	1001.6	1001.6	1001.6	1001.6	1001.6	1002.8	1004.1
172.5°	1011.1	1010.4	1009.7	1009.0	1008.7	1008.7	1008.7	1008.7	1008.7	1009.8	1010.9
175°	1018.6	1017.9	1017.2	1016.4	1016.1	1016.1	1016.1	1016.1	1016.1	1017.2	1018.2
177.5°	1021.8	1021.2	1020.6	1020.0	1019.8	1019.8	1019.8	1019.8	1019.8	1020.6	1021.4
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	747.7	747.7	748.6	752.3	752.7	755.9	754.9
5°	821.7	827.4	829.6	838.7	844.1	846.5	841.7
7.5°	912.2	928.4	936.2	945.7	954.1	956.7	950.1
10°	978.3	995.2	1009.5	1018.3	1026.5	1031.9	1038.9
12.5°	1042.0	1063.0	1076.5	1088.9	1097.3	1104.3	1105.4
15°	1111.4	1143.0	1167.0	1184.6	1193.3	1197.9	1196.1
17.5°	1181.4	1210.6	1227.7	1245.6	1257.8	1258.5	1258.9
20°	1221.0	1249.5	1269.2	1282.5	1296.2	1295.6	1298.6
22.5°	1247.4	1269.9	1285.0	1294.7	1299.3	1297.0	1297.7
25°	1259.8	1266.5	1263.8	1248.2	1244.4	1230.1	1232.5
27.5°	1196.0	1164.4	1131.8	1089.7	1056.6	1030.2	1031.5
30°	1109.3	1053.4	989.8	936.4	888.4	875.0	846.5
32.5°	988.2	904.4	829.8	780.1	738.9	727.7	702.8
35°	782.8	701.5	624.7	578.6	560.4	535.0	534.6
37.5°	608.5	536.9	496.3	461.7	443.5	428.1	426.6
40°	511.9	456.1	425.4	400.5	382.6	371.1	368.4
42.5°	444.4	399.3	370.5	355.1	341.4	335.4	331.0
45°	362.9	332.6	312.5	298.6	292.2	287.6	285.2
47.5°	303.6	283.2	269.6	260.3	255.1	250.3	251.6
50°	271.2	254.6	244.5	235.8	231.8	228.5	228.8
52.5°	245.3	230.3	222.2	215.9	211.0	208.6	207.4
55°	208.2	198.8	190.5	186.0	183.2	179.9	179.0
57.5°	177.5	170.2	163.6	158.4	157.8	154.6	155.0
60°	157.2	151.1	145.6	142.9	140.8	138.1	138.9
62.5°	140.5	135.3	130.3	128.1	126.0	124.0	124.4
65°	115.0	110.1	107.1	105.9	105.0	104.1	103.1
67.5°	91.7	88.6	86.7	84.1	82.3	82.0	81.0
70°	77.1	73.1	69.8	66.5	65.5	65.2	65.5
72.5°	61.8	59.3	58.4	56.7	56.6	55.8	56.3
75°	46.4	45.6	44.9	43.7	43.7	43.7	43.7
77.5°	34.2	33.7	33.4	33.0	32.8	32.3	32.3
80°	26.7	26.4	25.8	25.8	25.5	25.8	25.5
82.5°	20.1	20.1	19.5	19.5	19.2	19.0	19.2
85°	10.3	10.0	10.6	10.0	10.3	9.7	10.3
87.5°	7.2	7.4	7.2	7.3	7.1	7.7	7.2
90°	21.4	22.1	22.7	23.0	23.4	23.7	24.1
92.5°	32.6	33.1	33.3	33.0	32.9	32.6	32.4
95°	61.6	62.3	62.6	62.6	62.6	62.6	62.6
97.5°	95.4	96.3	96.6	96.5	96.5	96.4	96.3
100°	119.6	120.1	120.6	120.9	121.3	121.6	122.0
102.5°	147.8	148.4	148.6	148.5	148.5	148.4	148.3
105°	189.4	189.4	189.6	190.0	190.3	190.7	191.0
107.5°	235.6	236.1	236.3	236.1	235.9	235.7	235.4
110°	266.2	266.9	267.0	266.7	266.3	266.0	265.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	296.8	297.6	298.0	297.9	297.9	297.9	297.8
115°	342.5	342.6	342.6	342.5	342.2	342.1	341.9
117.5°	389.0	389.0	388.6	388.2	387.7	387.1	386.7
120°	420.0	419.9	419.5	419.2	418.8	418.5	418.1
122.5°	451.2	450.8	450.3	449.8	449.3	448.9	448.3
125°	497.9	497.2	496.5	495.7	495.0	494.3	493.6
127.5°	543.9	542.9	541.9	541.1	540.3	539.5	538.7
130°	574.9	574.2	573.2	572.0	570.7	569.5	568.2
132.5°	604.7	603.8	602.9	601.9	600.9	600.0	599.0
135°	649.5	648.8	648.3	647.9	647.6	647.2	646.9
137.5°	693.2	692.5	691.8	691.1	690.5	689.8	689.1
140°	722.5	722.4	721.7	720.4	719.2	718.0	716.7
142.5°	749.6	749.4	748.8	747.8	746.9	745.9	745.0
145°	789.2	789.0	788.5	787.8	787.1	786.4	785.7
147.5°	826.8	826.8	826.2	825.2	824.1	823.1	822.0
150°	849.9	849.9	849.4	848.3	847.2	846.2	845.1
152.5°	871.3	871.6	871.3	870.4	869.4	868.5	867.6
155°	902.6	903.3	903.1	901.8	900.6	899.4	898.1
157.5°	929.2	929.9	929.9	928.8	927.9	926.9	925.8
160°	945.7	946.6	946.7	945.9	945.2	944.5	943.8
162.5°	961.1	962.0	961.9	960.8	959.6	958.5	957.3
165°	980.7	981.8	981.8	980.5	979.2	977.9	976.8
167.5°	996.6	997.7	997.7	996.6	995.5	994.3	993.2
170°	1005.4	1006.6	1006.6	1005.4	1004.1	1002.8	1001.6
172.5°	1012.0	1013.1	1013.0	1011.8	1010.5	1009.2	1008.1
175°	1019.3	1020.3	1020.3	1019.0	1017.7	1016.5	1015.3
177.5°	1022.3	1023.2	1023.1	1022.1	1021.1	1020.1	1019.1
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7

(END OF REPORT)