

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: P332758-930

Luminaire Tested: **S124DIW-S575D1050U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332758-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S575D1050U930-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5078.8 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

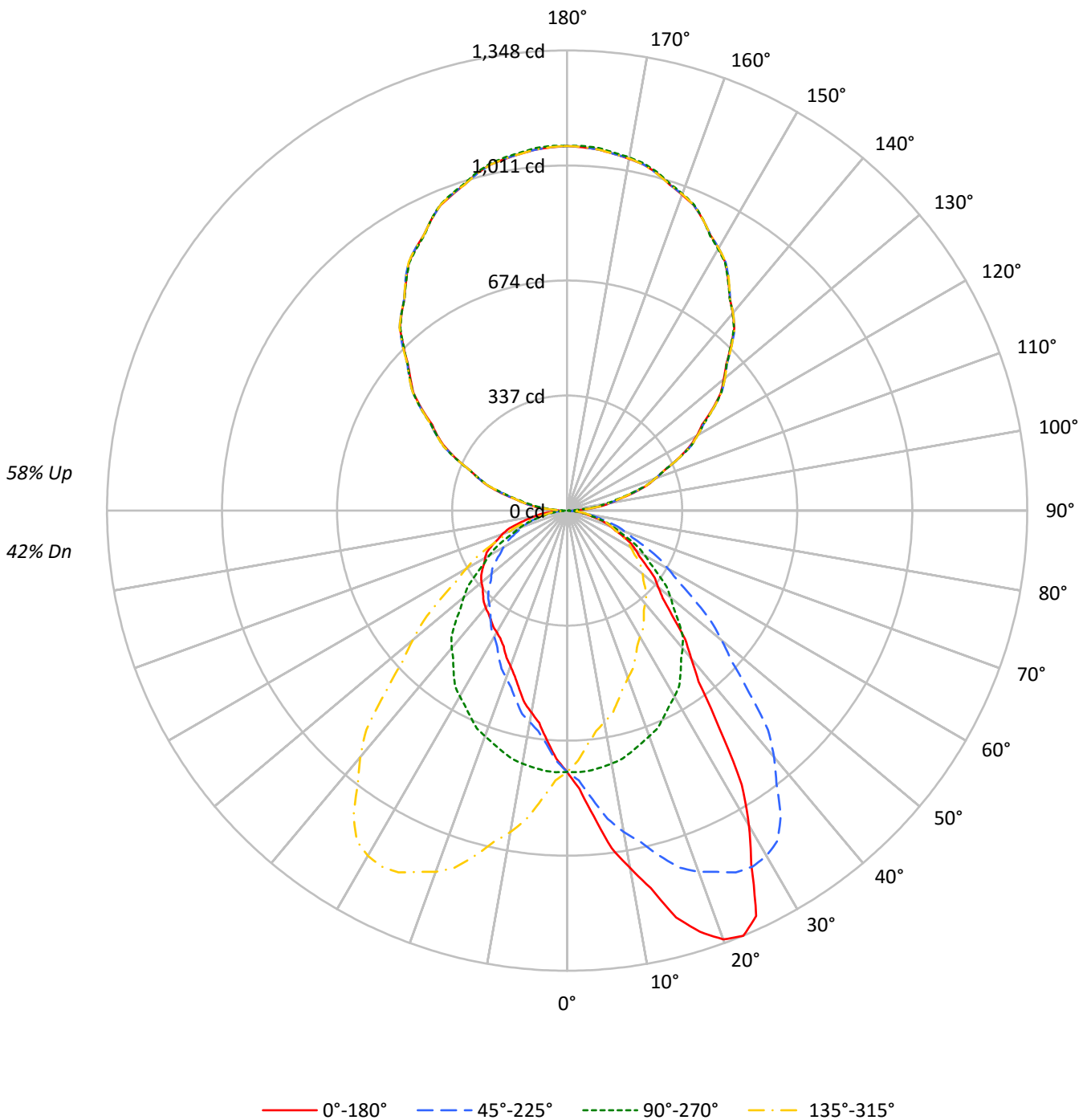
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	80	74	69	80	74	69	64	61	57	54	49	46	44	38	36	35	30
3	80	71	64	58	73	65	59	54	54	49	46	43	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	27	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	19	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	19	17	14	12
10	46	34	27	23	42	32	25	21	27	22	18	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6181	6181	6181	6181
5°	7280	6198	5471	6198
10°	8716	6171	4925	6171
15°	10313	6108	4523	6108
20°	11485	6045	4164	6045
25°	11670	5951	3917	5951
30°	9930	5862	3838	5862
35°	7634	5714	3840	5714
40°	5951	5542	3911	5542
45°	4962	5284	3976	5284
50°	4366	4968	4111	4968
55°	4000	4590	4277	4590
60°	3749	4251	4477	4251
65°	3490	3872	4642	3872
70°	3189	3496	4747	3496
75°	2851	3079	4688	3079
80°	2390	2520	4542	2520
85°	1760	1815	4353	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.5
10°-20°	230.0	4.5
20°-30°	364.6	7.2
30°-40°	405.8	8.0
40°-50°	369.4	7.3
50°-60°	301.9	5.9
60°-70°	215.5	4.2
70°-80°	118.7	2.3
80°-90°	35.6	0.7
90°-100°	70.4	1.4
100°-110°	208.7	4.1
110°-120°	354.2	7.0
120°-130°	467.0	9.2
130°-140°	524.5	10.3
140°-150°	515.4	10.1
150°-160°	433.5	8.5
160°-170°	288.4	5.7
170°-180°	101.0	2.0
0°-30°	669.2	13.2
0°-40°	1075.0	21.2
0°-60°	1746.2	34.4
0°-90°	2115.9	41.7
90°-120°	633.2	12.5
90°-150°	2140.1	42.1
90°-180°	2963.0	58.3
0°-180°	5078.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	766	766	766	766	766	
5°	898	765	675	765	898	91
15°	1234	731	541	731	1234	349
25°	1310	668	440	668	1310	578
35°	775	580	390	580	775	492
45°	435	463	348	463	435	342
55°	284	326	304	326	284	257
65°	183	203	243	203	183	181
75°	91	99	150	99	91	97
85°	19	20	47	20	19	24
90°	25	2	25	2	25	13
95°	65	50	65	50	65	68
105°	202	192	202	192	202	212
115°	357	360	357	360	357	353
125°	520	524	520	524	520	464
135°	677	676	677	676	677	523
145°	823	822	823	822	823	515
155°	941	942	941	942	941	433
165°	1022	1025	1022	1025	1022	288
175°	1061	1066	1061	1066	1061	101
180°	1068	1068	1068	1068	1068	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	815.0	814.7	812.2	811.7	809.9	807.6	807.1	803.1	794.9	791.2	790.1
5°	898.4	904.7	896.4	894.9	893.9	883.5	878.1	871.7	857.1	848.6	841.9
7.5°	997.8	998.6	995.0	992.1	984.0	974.9	961.2	946.6	929.2	911.1	897.5
10°	1063.3	1065.8	1061.8	1061.1	1044.9	1034.8	1014.5	997.4	977.6	955.8	935.8
12.5°	1132.4	1128.8	1126.7	1113.1	1110.1	1091.6	1068.0	1050.4	1020.0	994.8	968.2
15°	1234.0	1227.0	1222.5	1203.9	1194.7	1169.0	1143.9	1124.5	1084.9	1047.2	1018.6
17.5°	1293.6	1300.6	1290.3	1282.6	1258.8	1240.8	1215.2	1174.6	1143.5	1096.7	1060.6
20°	1336.8	1337.4	1331.7	1323.7	1305.0	1282.2	1254.3	1209.9	1172.7	1126.1	1076.6
22.5°	1348.4	1348.6	1346.1	1338.7	1324.5	1306.0	1277.9	1240.8	1195.9	1145.2	1095.7
25°	1310.1	1308.9	1311.7	1320.0	1314.6	1308.9	1292.7	1265.1	1223.2	1169.5	1116.3
27.5°	1167.8	1176.5	1192.6	1212.9	1232.5	1247.3	1251.6	1245.9	1219.9	1175.8	1120.1
30°	1065.2	1076.0	1088.0	1108.4	1147.7	1170.2	1195.0	1213.7	1203.2	1168.0	1116.0
32.5°	952.5	955.2	973.1	996.2	1032.3	1075.5	1114.8	1152.8	1165.4	1147.0	1103.5
35°	774.6	779.1	798.4	821.3	865.4	918.4	977.4	1030.0	1073.5	1091.0	1068.7
37.5°	632.2	644.9	658.5	683.1	721.9	769.6	831.0	899.0	963.8	1007.2	1014.6
40°	564.7	572.6	582.4	601.1	634.1	681.1	733.7	811.8	880.6	942.8	963.1
42.5°	511.4	516.0	522.0	538.9	564.1	610.7	658.8	727.5	796.6	871.0	905.0
45°	434.6	439.4	449.5	459.3	478.3	510.7	555.5	611.9	681.3	753.1	815.9
47.5°	379.1	382.2	388.2	398.8	414.9	436.3	472.6	519.8	584.2	653.8	720.7
50°	347.6	350.2	355.0	364.5	376.8	395.9	425.7	469.8	520.2	590.4	656.0
52.5°	322.8	323.8	327.3	333.8	343.6	359.6	384.1	420.5	467.5	529.9	595.3
55°	284.2	285.5	288.7	293.4	302.0	312.2	330.8	358.2	399.1	453.3	510.1
57.5°	252.5	253.4	256.1	257.9	265.0	273.2	287.6	307.0	338.1	384.1	434.8
60°	232.2	231.5	234.7	236.4	241.1	248.1	259.2	277.9	304.8	341.9	388.6
62.5°	212.4	211.5	214.2	216.3	219.0	224.9	234.1	248.7	270.6	304.2	344.5
65°	182.7	181.5	183.0	185.6	188.1	191.3	198.0	210.9	228.4	252.5	283.2
67.5°	152.9	154.3	154.5	155.7	157.2	161.5	166.1	175.3	187.6	206.9	232.9
70°	135.1	135.4	136.7	136.7	137.7	141.5	145.3	150.7	162.7	180.5	201.8
72.5°	117.4	118.7	118.2	119.2	119.9	122.5	125.2	130.4	140.6	153.8	171.8
75°	91.4	92.3	92.3	92.6	93.6	94.5	96.8	100.5	107.9	117.6	130.0
77.5°	66.6	66.8	67.2	68.3	68.3	69.9	71.5	74.5	78.2	84.9	92.5
80°	51.4	52.0	51.7	52.3	52.3	53.6	54.2	58.0	59.6	64.1	70.1
82.5°	37.7	38.3	38.2	39.1	39.6	39.9	40.8	42.3	43.9	47.9	50.3
85°	19.0	19.6	19.0	19.6	20.6	21.0	21.9	22.2	23.5	24.5	26.7
87.5°	10.5	11.3	11.2	11.3	11.7	11.9	11.9	11.4	12.2	12.2	13.0
90°	24.8	24.4	24.1	23.6	23.3	22.6	21.4	20.4	19.2	18.2	16.7
92.5°	36.7	36.4	36.2	36.0	35.8	35.4	34.7	34.0	33.3	32.7	31.7
95°	65.2	65.2	65.2	65.2	65.2	65.0	64.4	63.8	63.3	62.8	61.5
97.5°	102.2	102.2	102.2	102.2	102.2	101.9	101.3	100.6	100.0	99.3	97.8
100°	128.0	128.0	128.0	128.0	128.0	127.8	127.4	127.1	126.7	126.4	124.7
102.5°	157.1	156.9	156.8	156.6	156.5	156.2	155.6	155.2	154.7	154.1	152.6
105°	201.5	201.0	200.4	199.9	199.3	198.8	198.2	197.7	197.1	196.6	195.8
107.5°	244.8	244.8	244.9	244.9	244.9	244.8	244.2	243.7	243.2	242.6	242.6
110°	275.9	275.3	274.8	274.2	273.7	273.5	273.9	274.3	274.7	275.0	275.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	307.6	307.4	307.4	307.3	307.1	307.1	307.2	307.3	307.4	307.4	307.8
115°	356.8	357.0	357.2	357.3	357.5	357.8	357.9	358.1	358.2	358.5	358.8
117.5°	403.7	404.1	404.5	404.8	405.2	405.7	406.3	406.9	407.6	408.1	408.5
120°	439.4	439.0	438.6	438.3	437.9	438.2	439.1	440.0	441.0	441.9	442.5
122.5°	469.1	469.8	470.4	471.1	471.7	472.4	473.0	473.7	474.3	474.9	475.2
125°	520.3	520.7	521.1	521.5	521.8	522.2	522.5	522.9	523.3	523.7	523.8
127.5°	567.8	568.0	568.3	568.6	568.9	569.2	569.6	570.0	570.4	570.7	571.0
130°	598.8	599.6	600.3	601.0	601.8	602.3	602.7	603.0	603.4	603.7	603.7
132.5°	631.9	632.1	632.4	632.8	633.0	633.3	633.7	634.1	634.5	634.8	635.0
135°	677.3	677.8	678.3	678.9	679.5	680.0	680.3	680.7	681.0	681.4	681.4
137.5°	725.0	724.9	724.8	724.6	724.6	724.7	725.2	725.7	726.2	726.7	726.4
140°	754.1	754.2	754.5	754.6	754.8	755.0	755.2	755.4	755.5	755.7	755.7
142.5°	783.2	783.2	783.3	783.3	783.3	783.3	783.3	783.4	783.4	783.5	783.7
145°	822.6	823.2	823.7	824.3	824.8	825.2	825.4	825.6	825.7	825.9	825.7
147.5°	862.6	862.7	863.0	863.2	863.3	863.5	863.6	863.8	864.0	864.1	864.2
150°	887.0	887.2	887.5	887.6	887.8	887.9	887.9	887.9	887.9	887.9	887.9
152.5°	909.5	910.0	910.4	910.9	911.4	911.4	911.0	910.5	910.1	909.7	909.5
155°	940.8	941.5	942.2	943.0	943.7	943.7	943.0	942.2	941.5	940.8	940.9
157.5°	968.7	969.3	969.9	970.5	971.2	971.2	970.6	970.1	969.6	969.0	969.0
160°	984.5	985.5	986.3	987.2	988.1	988.4	987.8	987.2	986.7	986.2	986.3
162.5°	1001.0	1001.9	1002.9	1003.8	1004.7	1004.7	1003.6	1002.7	1001.7	1000.7	1000.9
165°	1022.5	1023.2	1023.9	1024.7	1025.4	1025.2	1024.2	1023.0	1022.0	1020.8	1021.2
167.5°	1037.9	1039.0	1040.2	1041.3	1042.4	1042.4	1041.3	1040.2	1039.1	1038.0	1038.0
170°	1046.4	1047.7	1049.0	1050.4	1051.6	1051.7	1050.6	1049.5	1048.4	1047.3	1047.1
172.5°	1053.7	1055.0	1056.3	1057.6	1058.8	1058.9	1057.6	1056.4	1055.2	1053.9	1053.9
175°	1061.4	1062.6	1063.9	1065.2	1066.5	1066.5	1065.2	1063.9	1062.6	1061.4	1061.5
177.5°	1065.3	1066.5	1067.6	1068.8	1070.0	1070.1	1069.0	1068.0	1067.0	1065.9	1065.9
180°	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	790.4	786.8	784.3	782.3	776.7	773.4	770.9	767.3	763.2	758.9	753.6
5°	835.3	824.4	816.5	804.5	793.0	783.5	773.7	764.8	754.0	742.3	733.7
7.5°	882.4	866.3	845.8	827.9	807.9	790.4	774.9	758.9	742.2	726.1	711.3
10°	912.3	891.7	868.9	841.9	816.5	794.0	773.1	752.8	733.1	713.4	696.6
12.5°	944.5	918.8	885.1	853.5	825.2	795.0	769.7	744.9	721.1	700.5	680.9
15°	987.8	950.7	911.7	869.5	832.1	796.9	762.3	730.8	704.3	676.9	657.9
17.5°	1014.4	968.5	923.9	879.8	834.5	790.0	752.8	716.6	683.1	656.1	632.1
20°	1031.9	986.3	930.7	886.6	832.7	787.0	743.9	703.6	668.7	639.8	615.1
22.5°	1047.2	994.3	938.8	880.8	827.1	778.6	731.4	690.9	655.3	624.8	601.1
25°	1055.4	994.8	934.5	876.8	815.9	758.5	715.7	668.1	630.0	597.9	572.6
27.5°	1056.3	991.5	923.3	859.2	796.3	742.8	688.8	646.2	606.7	572.8	548.5
30°	1053.4	985.9	912.6	843.2	780.1	721.9	675.1	628.8	588.4	554.8	529.5
32.5°	1044.6	974.2	898.9	825.4	760.0	703.2	654.8	610.7	571.4	538.3	511.7
35°	1018.9	949.4	869.2	792.7	725.8	668.4	624.6	579.8	540.5	509.2	483.5
37.5°	978.8	915.9	834.4	755.2	689.5	631.9	588.4	548.0	512.6	480.6	454.3
40°	943.7	888.5	806.7	729.6	658.5	603.6	563.0	525.9	490.7	460.6	435.5
42.5°	903.4	855.2	779.8	698.1	629.6	574.5	534.9	501.6	468.4	440.6	415.5
45°	831.4	799.7	728.6	653.1	581.8	529.8	492.0	462.8	434.9	407.6	386.7
47.5°	748.7	733.0	673.1	601.4	533.7	482.4	449.7	422.7	398.3	375.1	356.7
50°	693.1	685.5	633.8	564.7	499.9	451.8	418.7	395.6	374.6	354.3	336.9
52.5°	638.3	638.1	591.4	528.1	468.2	421.8	389.1	367.4	349.3	332.7	317.1
55°	554.5	563.4	526.9	470.4	416.9	375.0	345.4	326.1	313.4	299.8	288.0
57.5°	477.5	492.3	462.2	412.5	367.7	329.1	303.5	288.9	275.4	267.2	258.6
60°	427.3	441.2	417.8	375.9	333.7	300.7	276.3	263.3	251.5	245.8	239.8
62.5°	382.6	395.1	377.6	338.8	302.2	270.5	249.9	237.4	229.5	223.2	219.2
65°	318.8	329.3	314.4	286.2	254.7	229.3	212.5	202.7	195.1	192.6	188.1
67.5°	257.7	267.3	259.2	235.2	210.0	190.8	177.7	168.2	163.7	161.4	158.3
70°	221.4	231.0	222.3	201.5	182.1	165.9	153.5	148.1	143.4	142.4	138.0
72.5°	190.7	197.2	188.6	172.3	155.7	142.0	132.5	126.9	124.3	122.6	120.3
75°	143.1	148.8	143.1	130.4	118.6	109.1	100.9	98.7	95.8	94.8	93.3
77.5°	101.3	106.2	101.8	93.9	85.1	77.8	73.4	70.5	69.9	68.2	69.0
80°	77.4	80.6	76.5	71.1	64.1	59.0	55.8	54.2	52.3	51.7	53.0
82.5°	55.6	57.0	54.9	51.3	46.1	42.7	40.6	38.7	38.4	38.5	38.5
85°	28.9	28.5	28.2	25.0	23.5	21.3	20.0	19.6	19.3	20.0	20.6
87.5°	12.7	12.6	12.1	10.8	9.5	8.4	7.7	7.1	7.7	8.4	9.0
90°	15.2	13.8	12.3	10.5	8.6	6.5	4.5	2.4	4.5	6.5	8.6
92.5°	30.7	29.6	28.6	26.9	24.6	22.3	20.0	17.7	20.0	22.3	24.6
95°	60.2	58.9	57.6	56.2	54.5	52.8	51.2	49.6	51.2	52.8	54.5
97.5°	96.3	94.7	93.3	91.9	90.5	89.2	87.9	86.6	87.9	89.2	90.5
100°	123.0	121.4	119.8	118.5	117.8	117.1	116.3	115.6	116.3	117.1	117.8
102.5°	151.1	149.6	148.1	147.2	146.9	146.6	146.3	146.0	146.3	146.6	146.9
105°	195.1	194.4	193.6	193.1	193.0	192.8	192.7	192.4	192.7	192.8	193.0
107.5°	242.5	242.3	242.2	242.1	241.8	241.6	241.4	241.2	241.4	241.6	241.8
110°	275.4	275.6	275.7	275.7	275.3	274.9	274.6	274.2	274.6	274.9	275.3



TEST NUMBER: P332758-930

CATALOG NUMBER: S124DIW-S575D1050U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	308.1	308.4	308.8	308.8	308.8	308.8	308.7	308.6	308.7	308.8	308.8
115°	359.2	359.5	360.0	360.1	360.1	360.1	360.1	360.1	360.1	360.1	360.1
117.5°	408.7	409.0	409.2	409.3	409.1	409.0	408.8	408.7	408.8	409.0	409.1
120°	443.0	443.5	444.1	444.0	443.3	442.5	441.8	441.1	441.8	442.5	443.3
122.5°	475.4	475.6	476.0	475.9	475.6	475.3	475.1	474.7	475.1	475.3	475.6
125°	524.0	524.2	524.4	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5
127.5°	571.3	571.6	571.9	571.8	571.2	570.6	570.1	569.6	570.1	570.6	571.2
130°	603.7	603.7	603.7	603.5	602.9	602.3	601.9	601.3	601.9	602.3	602.9
132.5°	635.1	635.3	635.4	635.3	634.9	634.5	634.1	633.7	634.1	634.5	634.9
135°	681.4	681.4	681.4	680.9	679.7	678.7	677.5	676.5	677.5	678.7	679.7
137.5°	726.1	725.8	725.5	725.0	724.6	724.1	723.5	723.0	723.5	724.1	724.6
140°	755.7	755.7	755.7	755.5	755.2	754.8	754.5	754.1	754.5	754.8	755.2
142.5°	783.7	783.9	784.1	784.0	783.6	783.3	782.9	782.5	782.9	783.3	783.6
145°	825.6	825.4	825.2	824.8	824.0	823.3	822.6	821.8	822.6	823.3	824.0
147.5°	864.4	864.5	864.7	864.3	863.4	862.6	861.7	860.8	861.7	862.6	863.4
150°	887.9	887.9	887.9	887.5	886.8	886.1	885.3	884.6	885.3	886.1	886.8
152.5°	909.4	909.2	909.1	908.8	908.3	907.9	907.5	907.0	907.5	907.9	908.3
155°	941.1	941.3	941.5	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6
157.5°	969.1	969.1	969.1	969.3	969.6	970.0	970.3	970.6	970.3	970.0	969.6
160°	986.5	986.7	986.9	987.1	987.2	987.4	987.7	987.8	987.7	987.4	987.2
162.5°	1001.1	1001.3	1001.4	1001.8	1002.2	1002.7	1003.2	1003.6	1003.2	1002.7	1002.2
165°	1021.6	1022.0	1022.3	1022.8	1023.4	1023.9	1024.4	1025.0	1024.4	1023.9	1023.4
167.5°	1038.0	1038.0	1037.9	1038.3	1039.0	1039.8	1040.6	1041.3	1040.6	1039.8	1039.0
170°	1046.9	1046.8	1046.5	1046.9	1047.8	1048.7	1049.7	1050.6	1049.7	1048.7	1047.8
172.5°	1053.9	1053.8	1053.8	1054.1	1054.9	1055.6	1056.4	1057.2	1056.4	1055.6	1054.9
175°	1061.7	1061.8	1062.1	1062.6	1063.6	1064.5	1065.4	1066.2	1065.4	1064.5	1063.6
177.5°	1065.9	1065.9	1065.9	1066.3	1067.1	1067.8	1068.5	1069.3	1068.5	1067.8	1067.1
180°	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0



TEST NUMBER: P332758-930

CATALOG NUMBER: S124DIW-S575D1050U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	751.1	748.8	745.4	740.9	737.1	733.0	732.0	730.5	733.5	731.0	730.3
5°	726.4	719.7	711.2	701.4	695.7	687.4	685.8	682.7	679.5	679.1	676.0
7.5°	700.3	690.6	679.4	669.4	660.1	651.1	645.1	643.9	639.2	636.5	633.3
10°	683.6	671.6	658.5	649.1	638.2	628.8	622.1	618.2	615.1	611.6	608.5
12.5°	663.8	651.0	640.3	630.0	617.2	609.9	599.0	592.4	591.7	591.8	583.6
15°	640.7	628.1	611.6	597.0	590.0	576.1	570.1	562.4	557.7	552.9	549.1
17.5°	614.5	598.7	585.8	569.0	555.7	544.6	536.6	532.1	525.0	518.2	513.3
20°	597.9	581.1	567.5	549.8	535.2	521.5	514.9	508.5	503.1	497.4	492.0
22.5°	581.2	563.6	547.0	529.7	516.1	501.7	495.3	486.7	481.5	478.3	473.0
25°	554.8	535.8	516.7	500.3	486.3	473.6	465.0	458.4	452.7	450.1	446.6
27.5°	526.1	507.2	488.9	470.1	454.3	445.1	438.2	433.2	429.9	426.6	424.9
30°	507.8	488.2	468.6	451.1	436.5	427.3	420.9	417.4	414.9	413.4	411.7
32.5°	489.3	469.9	449.2	433.3	420.3	412.1	407.2	403.7	402.5	401.9	401.4
35°	459.7	440.0	420.9	406.7	394.3	391.1	387.0	385.1	384.5	386.7	387.7
37.5°	430.9	412.6	395.1	381.3	373.2	368.5	367.1	367.2	369.5	371.5	373.7
40°	412.4	394.6	378.1	366.1	358.5	355.6	355.0	356.5	359.1	361.3	363.9
42.5°	394.4	376.8	361.9	350.6	345.3	342.7	343.1	344.6	348.2	350.9	354.7
45°	366.4	351.8	337.2	328.0	323.6	324.2	324.2	327.0	330.5	334.7	338.8
47.5°	340.1	325.3	313.3	305.6	303.3	302.7	304.5	308.3	313.3	318.4	324.2
50°	322.3	308.3	297.8	290.9	288.4	289.3	291.9	295.3	301.3	307.7	313.7
52.5°	304.3	291.6	281.8	275.4	273.6	275.3	277.9	283.4	288.7	295.5	302.8
55°	276.3	265.5	257.9	253.2	252.5	253.5	256.3	262.4	269.9	278.5	285.5
57.5°	248.4	239.5	232.4	229.2	229.5	230.4	235.1	242.2	250.4	259.5	268.5
60°	229.7	221.4	215.7	213.2	213.5	215.4	221.1	227.8	237.9	246.8	256.3
62.5°	211.9	204.6	199.2	196.9	196.5	200.6	206.1	213.0	223.2	233.1	243.4
65°	183.4	177.7	173.2	171.9	172.8	176.0	183.0	192.2	200.8	211.2	222.1
67.5°	155.4	150.7	147.7	148.3	149.4	154.1	160.0	167.9	177.6	188.4	199.1
70°	137.7	133.2	130.7	131.0	132.9	138.6	143.7	151.6	162.1	173.2	182.1
72.5°	119.4	116.5	114.2	115.5	117.4	121.4	127.7	135.7	144.9	155.2	164.6
75°	91.6	91.6	90.4	91.4	94.2	98.0	102.8	111.0	120.3	128.5	136.1
77.5°	68.0	67.3	68.2	69.3	70.9	75.4	80.9	86.8	93.7	102.0	108.3
80°	52.0	52.3	53.9	55.8	56.5	59.9	65.6	71.1	76.5	83.4	89.4
82.5°	39.1	39.4	40.2	42.6	43.3	47.0	50.7	56.1	61.0	65.6	70.7
85°	21.3	21.3	22.8	23.8	25.4	27.9	30.2	33.3	37.7	40.9	45.7
87.5°	10.2	10.6	11.9	12.7	13.8	15.3	16.1	19.1	20.3	21.8	24.2
90°	10.5	12.3	13.8	15.2	16.7	18.2	19.2	20.4	21.4	22.6	23.3
92.5°	26.9	28.6	29.6	30.7	31.7	32.7	33.3	34.0	34.7	35.4	35.8
95°	56.2	57.6	58.9	60.2	61.5	62.8	63.3	63.8	64.4	65.0	65.2
97.5°	91.9	93.3	94.7	96.3	97.8	99.3	100.0	100.6	101.3	101.9	102.2
100°	118.5	119.8	121.4	123.0	124.7	126.4	126.7	127.1	127.4	127.8	128.0
102.5°	147.2	148.1	149.6	151.1	152.6	154.1	154.7	155.2	155.6	156.2	156.5
105°	193.1	193.6	194.4	195.1	195.8	196.6	197.1	197.7	198.2	198.8	199.3
107.5°	242.1	242.2	242.3	242.5	242.6	242.6	243.2	243.7	244.2	244.8	244.9
110°	275.7	275.7	275.6	275.4	275.2	275.0	274.7	274.3	273.9	273.5	273.7



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CATALOG NUMBER: S124DIW-S575D1050U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	308.8	308.8	308.4	308.1	307.8	307.4	307.4	307.3	307.2	307.1	307.1
115°	360.1	360.0	359.5	359.2	358.8	358.5	358.2	358.1	357.9	357.8	357.5
117.5°	409.3	409.2	409.0	408.7	408.5	408.1	407.6	406.9	406.3	405.7	405.2
120°	444.0	444.1	443.5	443.0	442.5	441.9	441.0	440.0	439.1	438.2	437.9
122.5°	475.9	476.0	475.6	475.4	475.2	474.9	474.3	473.7	473.0	472.4	471.7
125°	524.5	524.4	524.2	524.0	523.8	523.7	523.3	522.9	522.5	522.2	521.8
127.5°	571.8	571.9	571.6	571.3	571.0	570.7	570.4	570.0	569.6	569.2	568.9
130°	603.5	603.7	603.7	603.7	603.7	603.7	603.4	603.0	602.7	602.3	601.8
132.5°	635.3	635.4	635.3	635.1	635.0	634.8	634.5	634.1	633.7	633.3	633.0
135°	680.9	681.4	681.4	681.4	681.4	681.4	681.0	680.7	680.3	680.0	679.5
137.5°	725.0	725.5	725.8	726.1	726.4	726.7	726.2	725.7	725.2	724.7	724.6
140°	755.5	755.7	755.7	755.7	755.7	755.7	755.5	755.4	755.2	755.0	754.8
142.5°	784.0	784.1	783.9	783.7	783.7	783.5	783.4	783.4	783.3	783.3	783.3
145°	824.8	825.2	825.4	825.6	825.7	825.9	825.7	825.6	825.4	825.2	824.8
147.5°	864.3	864.7	864.5	864.4	864.2	864.1	864.0	863.8	863.6	863.5	863.3
150°	887.5	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.8
152.5°	908.8	909.1	909.2	909.4	909.5	909.7	910.1	910.5	911.0	911.4	911.4
155°	941.6	941.5	941.3	941.1	940.9	940.8	941.5	942.2	943.0	943.7	943.7
157.5°	969.3	969.1	969.1	969.1	969.0	969.0	969.6	970.1	970.6	971.2	971.2
160°	987.1	986.9	986.7	986.5	986.3	986.2	986.7	987.2	987.8	988.4	988.1
162.5°	1001.8	1001.4	1001.3	1001.1	1000.9	1000.7	1001.7	1002.7	1003.6	1004.7	1004.7
165°	1022.8	1022.3	1022.0	1021.6	1021.2	1020.8	1022.0	1023.0	1024.2	1025.2	1025.4
167.5°	1038.3	1037.9	1038.0	1038.0	1038.0	1038.0	1039.1	1040.2	1041.3	1042.4	1042.4
170°	1046.9	1046.5	1046.8	1046.9	1047.1	1047.3	1048.4	1049.5	1050.6	1051.7	1051.6
172.5°	1054.1	1053.8	1053.8	1053.9	1053.9	1053.9	1055.2	1056.4	1057.6	1058.9	1058.8
175°	1062.6	1062.1	1061.8	1061.7	1061.5	1061.4	1062.6	1063.9	1065.2	1066.5	1066.5
177.5°	1066.3	1065.9	1065.9	1065.9	1065.9	1065.9	1067.0	1068.0	1069.0	1070.1	1070.0
180°	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0



TEST NUMBER: P332758-930

CATALOG NUMBER: S124DIW-S575D1050U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	729.7	729.2	727.4	727.2	727.4	729.2	729.7	730.3	731.0	733.5	730.5
5°	674.1	672.5	671.6	675.1	671.6	672.5	674.1	676.0	679.1	679.5	682.7
7.5°	632.2	630.9	628.1	627.2	628.1	630.9	632.2	633.3	636.5	639.2	643.9
10°	605.3	604.0	601.4	600.8	601.4	604.0	605.3	608.5	611.6	615.1	618.2
12.5°	579.4	576.8	576.3	577.0	576.3	576.8	579.4	583.6	591.8	591.7	592.4
15°	544.9	543.7	540.2	541.2	540.2	543.7	544.9	549.1	552.9	557.7	562.4
17.5°	511.1	509.6	505.3	509.1	505.3	509.6	511.1	513.3	518.2	525.0	532.1
20°	489.8	487.2	485.0	484.7	485.0	487.2	489.8	492.0	497.4	503.1	508.5
22.5°	469.4	467.2	467.0	464.9	467.0	467.2	469.4	473.0	478.3	481.5	486.7
25°	444.1	441.9	441.2	439.7	441.2	441.9	444.1	446.6	450.1	452.7	458.4
27.5°	424.6	423.5	422.4	422.9	422.4	423.5	424.6	424.9	426.6	429.9	433.2
30°	412.7	412.4	411.7	411.7	411.7	412.4	412.7	411.7	413.4	414.9	417.4
32.5°	402.8	402.8	403.1	403.1	403.1	402.8	402.8	401.4	401.9	402.5	403.7
35°	388.9	389.9	390.5	389.6	390.5	389.9	388.9	387.7	386.7	384.5	385.1
37.5°	376.3	377.3	378.2	379.3	378.2	377.3	376.3	373.7	371.5	369.5	367.2
40°	366.7	368.9	369.6	371.1	369.6	368.9	366.7	363.9	361.3	359.1	356.5
42.5°	357.6	360.0	361.7	362.0	361.7	360.0	357.6	354.7	350.9	348.2	344.6
45°	343.6	346.1	348.3	348.3	348.3	346.1	343.6	338.8	334.7	330.5	327.0
47.5°	329.1	332.7	334.9	335.5	334.9	332.7	329.1	324.2	318.4	313.3	308.3
50°	319.1	323.6	325.8	327.3	325.8	323.6	319.1	313.7	307.7	301.3	295.3
52.5°	309.5	313.9	316.9	317.7	316.9	313.9	309.5	302.8	295.5	288.7	283.4
55°	292.8	299.1	302.6	303.9	302.6	299.1	292.8	285.5	278.5	269.9	262.4
57.5°	277.0	282.9	287.0	287.9	287.0	282.9	277.0	268.5	259.5	250.4	242.2
60°	264.9	271.3	276.3	277.3	276.3	271.3	264.9	256.3	246.8	237.9	227.8
62.5°	252.4	259.0	263.6	266.1	263.6	259.0	252.4	243.4	233.1	223.2	213.0
65°	231.0	237.6	242.1	243.0	242.1	237.6	231.0	222.1	211.2	200.8	192.2
67.5°	207.5	214.1	217.0	218.9	217.0	214.1	207.5	199.1	188.4	177.6	167.9
70°	190.9	196.3	199.5	201.1	199.5	196.3	190.9	182.1	173.2	162.1	151.6
72.5°	172.2	177.8	181.5	181.8	181.5	177.8	172.2	164.6	155.2	144.9	135.7
75°	143.4	148.5	150.3	150.3	150.3	148.5	143.4	136.1	128.5	120.3	111.0
77.5°	113.5	116.1	118.5	119.0	118.5	116.1	113.5	108.3	102.0	93.7	86.8
80°	94.2	95.8	97.7	97.7	97.7	95.8	94.2	89.4	83.4	76.5	71.1
82.5°	74.4	75.7	77.6	77.4	77.6	75.7	74.4	70.7	65.6	61.0	56.1
85°	45.0	47.9	47.6	47.0	47.6	47.9	45.0	45.7	40.9	37.7	33.3
87.5°	25.0	25.4	26.2	26.7	26.2	25.4	25.0	24.2	21.8	20.3	19.1
90°	23.6	24.1	24.4	24.8	24.4	24.1	23.6	23.3	22.6	21.4	20.4
92.5°	36.0	36.2	36.4	36.7	36.4	36.2	36.0	35.8	35.4	34.7	34.0
95°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.0	64.4	63.8
97.5°	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	101.9	101.3	100.6
100°	128.0	128.0	128.0	128.0	128.0	128.0	128.0	128.0	127.8	127.4	127.1
102.5°	156.6	156.8	156.9	157.1	156.9	156.8	156.6	156.5	156.2	155.6	155.2
105°	199.9	200.4	201.0	201.5	201.0	200.4	199.9	199.3	198.8	198.2	197.7
107.5°	244.9	244.9	244.8	244.8	244.8	244.9	244.9	244.9	244.8	244.2	243.7
110°	274.2	274.8	275.3	275.9	275.3	274.8	274.2	273.7	273.5	273.9	274.3



TEST NUMBER: P332758-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	307.3	307.4	307.4	307.6	307.4	307.4	307.3	307.1	307.1	307.2	307.3
115°	357.3	357.2	357.0	356.8	357.0	357.2	357.3	357.5	357.8	357.9	358.1
117.5°	404.8	404.5	404.1	403.7	404.1	404.5	404.8	405.2	405.7	406.3	406.9
120°	438.3	438.6	439.0	439.4	439.0	438.6	438.3	437.9	438.2	439.1	440.0
122.5°	471.1	470.4	469.8	469.1	469.8	470.4	471.1	471.7	472.4	473.0	473.7
125°	521.5	521.1	520.7	520.3	520.7	521.1	521.5	521.8	522.2	522.5	522.9
127.5°	568.6	568.3	568.0	567.8	568.0	568.3	568.6	568.9	569.2	569.6	570.0
130°	601.0	600.3	599.6	598.8	599.6	600.3	601.0	601.8	602.3	602.7	603.0
132.5°	632.8	632.4	632.1	631.9	632.1	632.4	632.8	633.0	633.3	633.7	634.1
135°	678.9	678.3	677.8	677.3	677.8	678.3	678.9	679.5	680.0	680.3	680.7
137.5°	724.6	724.8	724.9	725.0	724.9	724.8	724.6	724.6	724.7	725.2	725.7
140°	754.6	754.5	754.2	754.1	754.2	754.5	754.6	754.8	755.0	755.2	755.4
142.5°	783.3	783.3	783.2	783.2	783.2	783.3	783.3	783.3	783.3	783.3	783.4
145°	824.3	823.7	823.2	822.6	823.2	823.7	824.3	824.8	825.2	825.4	825.6
147.5°	863.2	863.0	862.7	862.6	862.7	863.0	863.2	863.3	863.5	863.6	863.8
150°	887.6	887.5	887.2	887.0	887.2	887.5	887.6	887.8	887.9	887.9	887.9
152.5°	910.9	910.4	910.0	909.5	910.0	910.4	910.9	911.4	911.4	911.0	910.5
155°	943.0	942.2	941.5	940.8	941.5	942.2	943.0	943.7	943.7	943.0	942.2
157.5°	970.5	969.9	969.3	968.7	969.3	969.9	970.5	971.2	971.2	970.6	970.1
160°	987.2	986.3	985.5	984.5	985.5	986.3	987.2	988.1	988.4	987.8	987.2
162.5°	1003.8	1002.9	1001.9	1001.0	1001.9	1002.9	1003.8	1004.7	1004.7	1003.6	1002.7
165°	1024.7	1023.9	1023.2	1022.5	1023.2	1023.9	1024.7	1025.4	1025.2	1024.2	1023.0
167.5°	1041.3	1040.2	1039.0	1037.9	1039.0	1040.2	1041.3	1042.4	1042.4	1041.3	1040.2
170°	1050.4	1049.0	1047.7	1046.4	1047.7	1049.0	1050.4	1051.6	1051.7	1050.6	1049.5
172.5°	1057.6	1056.3	1055.0	1053.7	1055.0	1056.3	1057.6	1058.8	1058.9	1057.6	1056.4
175°	1065.2	1063.9	1062.6	1061.4	1062.6	1063.9	1065.2	1066.5	1066.5	1065.2	1063.9
177.5°	1068.8	1067.6	1066.5	1065.3	1066.5	1067.6	1068.8	1070.0	1070.1	1069.0	1068.0
180°	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0



TEST NUMBER: P332758-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	732.0	733.0	737.1	740.9	745.4	748.8	751.1	753.6	758.9	763.2	767.3
5°	685.8	687.4	695.7	701.4	711.2	719.7	726.4	733.7	742.3	754.0	764.8
7.5°	645.1	651.1	660.1	669.4	679.4	690.6	700.3	711.3	726.1	742.2	758.9
10°	622.1	628.8	638.2	649.1	658.5	671.6	683.6	696.6	713.4	733.1	752.8
12.5°	599.0	609.9	617.2	630.0	640.3	651.0	663.8	680.9	700.5	721.1	744.9
15°	570.1	576.1	590.0	597.0	611.6	628.1	640.7	657.9	676.9	704.3	730.8
17.5°	536.6	544.6	555.7	569.0	585.8	598.7	614.5	632.1	656.1	683.1	716.6
20°	514.9	521.5	535.2	549.8	567.5	581.1	597.9	615.1	639.8	668.7	703.6
22.5°	495.3	501.7	516.1	529.7	547.0	563.6	581.2	601.1	624.8	655.3	690.9
25°	465.0	473.6	486.3	500.3	516.7	535.8	554.8	572.6	597.9	630.0	668.1
27.5°	438.2	445.1	454.3	470.1	488.9	507.2	526.1	548.5	572.8	606.7	646.2
30°	420.9	427.3	436.5	451.1	468.6	488.2	507.8	529.5	554.8	588.4	628.8
32.5°	407.2	412.1	420.3	433.3	449.2	469.9	489.3	511.7	538.3	571.4	610.7
35°	387.0	391.1	394.3	406.7	420.9	440.0	459.7	483.5	509.2	540.5	579.8
37.5°	367.1	368.5	373.2	381.3	395.1	412.6	430.9	454.3	480.6	512.6	548.0
40°	355.0	355.6	358.5	366.1	378.1	394.6	412.4	435.5	460.6	490.7	525.9
42.5°	343.1	342.7	345.3	350.6	361.9	376.8	394.4	415.5	440.6	468.4	501.6
45°	324.2	324.2	323.6	328.0	337.2	351.8	366.4	386.7	407.6	434.9	462.8
47.5°	304.5	302.7	303.3	305.6	313.3	325.3	340.1	356.7	375.1	398.3	422.7
50°	291.9	289.3	288.4	290.9	297.8	308.3	322.3	336.9	354.3	374.6	395.6
52.5°	277.9	275.3	273.6	275.4	281.8	291.6	304.3	317.1	332.7	349.3	367.4
55°	256.3	253.5	252.5	253.2	257.9	265.5	276.3	288.0	299.8	313.4	326.1
57.5°	235.1	230.4	229.5	229.2	232.4	239.5	248.4	258.6	267.2	275.4	288.9
60°	221.1	215.4	213.5	213.2	215.7	221.4	229.7	239.8	245.8	251.5	263.3
62.5°	206.1	200.6	196.5	196.9	199.2	204.6	211.9	219.2	223.2	229.5	237.4
65°	183.0	176.0	172.8	171.9	173.2	177.7	183.4	188.1	192.6	195.1	202.7
67.5°	160.0	154.1	149.4	148.3	147.7	150.7	155.4	158.3	161.4	163.7	168.2
70°	143.7	138.6	132.9	131.0	130.7	133.2	137.7	138.0	142.4	143.4	148.1
72.5°	127.7	121.4	117.4	115.5	114.2	116.5	119.4	120.3	122.6	124.3	126.9
75°	102.8	98.0	94.2	91.4	90.4	91.6	91.6	93.3	94.8	95.8	98.7
77.5°	80.9	75.4	70.9	69.3	68.2	67.3	68.0	69.0	68.2	69.9	70.5
80°	65.6	59.9	56.5	55.8	53.9	52.3	52.0	53.0	51.7	52.3	54.2
82.5°	50.7	47.0	43.3	42.6	40.2	39.4	39.1	38.5	38.5	38.4	38.7
85°	30.2	27.9	25.4	23.8	22.8	21.3	21.3	20.6	20.0	19.3	19.6
87.5°	16.1	15.3	13.8	12.7	11.9	10.6	10.2	9.0	8.4	7.7	7.1
90°	19.2	18.2	16.7	15.2	13.8	12.3	10.5	8.6	6.5	4.5	2.4
92.5°	33.3	32.7	31.7	30.7	29.6	28.6	26.9	24.6	22.3	20.0	17.7
95°	63.3	62.8	61.5	60.2	58.9	57.6	56.2	54.5	52.8	51.2	49.6
97.5°	100.0	99.3	97.8	96.3	94.7	93.3	91.9	90.5	89.2	87.9	86.6
100°	126.7	126.4	124.7	123.0	121.4	119.8	118.5	117.8	117.1	116.3	115.6
102.5°	154.7	154.1	152.6	151.1	149.6	148.1	147.2	146.9	146.6	146.3	146.0
105°	197.1	196.6	195.8	195.1	194.4	193.6	193.1	193.0	192.8	192.7	192.4
107.5°	243.2	242.6	242.6	242.5	242.3	242.2	242.1	241.8	241.6	241.4	241.2
110°	274.7	275.0	275.2	275.4	275.6	275.7	275.7	275.3	274.9	274.6	274.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	307.4	307.4	307.8	308.1	308.4	308.8	308.8	308.8	308.8	308.7	308.6
115°	358.2	358.5	358.8	359.2	359.5	360.0	360.1	360.1	360.1	360.1	360.1
117.5°	407.6	408.1	408.5	408.7	409.0	409.2	409.3	409.1	409.0	408.8	408.7
120°	441.0	441.9	442.5	443.0	443.5	444.1	444.0	443.3	442.5	441.8	441.1
122.5°	474.3	474.9	475.2	475.4	475.6	476.0	475.9	475.6	475.3	475.1	474.7
125°	523.3	523.7	523.8	524.0	524.2	524.4	524.5	524.5	524.5	524.5	524.5
127.5°	570.4	570.7	571.0	571.3	571.6	571.9	571.8	571.2	570.6	570.1	569.6
130°	603.4	603.7	603.7	603.7	603.7	603.7	603.5	602.9	602.3	601.9	601.3
132.5°	634.5	634.8	635.0	635.1	635.3	635.4	635.3	634.9	634.5	634.1	633.7
135°	681.0	681.4	681.4	681.4	681.4	681.4	680.9	679.7	678.7	677.5	676.5
137.5°	726.2	726.7	726.4	726.1	725.8	725.5	725.0	724.6	724.1	723.5	723.0
140°	755.5	755.7	755.7	755.7	755.7	755.7	755.5	755.2	754.8	754.5	754.1
142.5°	783.4	783.5	783.7	783.7	783.9	784.1	784.0	783.6	783.3	782.9	782.5
145°	825.7	825.9	825.7	825.6	825.4	825.2	824.8	824.0	823.3	822.6	821.8
147.5°	864.0	864.1	864.2	864.4	864.5	864.7	864.3	863.4	862.6	861.7	860.8
150°	887.9	887.9	887.9	887.9	887.9	887.9	887.5	886.8	886.1	885.3	884.6
152.5°	910.1	909.7	909.5	909.4	909.2	909.1	908.8	908.3	907.9	907.5	907.0
155°	941.5	940.8	940.9	941.1	941.3	941.5	941.6	941.6	941.6	941.6	941.6
157.5°	969.6	969.0	969.0	969.1	969.1	969.1	969.3	969.6	970.0	970.3	970.6
160°	986.7	986.2	986.3	986.5	986.7	986.9	987.1	987.2	987.4	987.7	987.8
162.5°	1001.7	1000.7	1000.9	1001.1	1001.3	1001.4	1001.8	1002.2	1002.7	1003.2	1003.6
165°	1022.0	1020.8	1021.2	1021.6	1022.0	1022.3	1022.8	1023.4	1023.9	1024.4	1025.0
167.5°	1039.1	1038.0	1038.0	1038.0	1038.0	1037.9	1038.3	1039.0	1039.8	1040.6	1041.3
170°	1048.4	1047.3	1047.1	1046.9	1046.8	1046.5	1046.9	1047.8	1048.7	1049.7	1050.6
172.5°	1055.2	1053.9	1053.9	1053.9	1053.8	1053.8	1054.1	1054.9	1055.6	1056.4	1057.2
175°	1062.6	1061.4	1061.5	1061.7	1061.8	1062.1	1062.6	1063.6	1064.5	1065.4	1066.2
177.5°	1067.0	1065.9	1065.9	1065.9	1065.9	1065.9	1066.3	1067.1	1067.8	1068.5	1069.3
180°	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	770.9	773.4	776.7	782.3	784.3	786.8	790.4	790.1	791.2	794.9	803.1
5°	773.7	783.5	793.0	804.5	816.5	824.4	835.3	841.9	848.6	857.1	871.7
7.5°	774.9	790.4	807.9	827.9	845.8	866.3	882.4	897.5	911.1	929.2	946.6
10°	773.1	794.0	816.5	841.9	868.9	891.7	912.3	935.8	955.8	977.6	997.4
12.5°	769.7	795.0	825.2	853.5	885.1	918.8	944.5	968.2	994.8	1020.0	1050.4
15°	762.3	796.9	832.1	869.5	911.7	950.7	987.8	1018.6	1047.2	1084.9	1124.5
17.5°	752.8	790.0	834.5	879.8	923.9	968.5	1014.4	1060.6	1096.7	1143.5	1174.6
20°	743.9	787.0	832.7	886.6	930.7	986.3	1031.9	1076.6	1126.1	1172.7	1209.9
22.5°	731.4	778.6	827.1	880.8	938.8	994.3	1047.2	1095.7	1145.2	1195.9	1240.8
25°	715.7	758.5	815.9	876.8	934.5	994.8	1055.4	1116.3	1169.5	1223.2	1265.1
27.5°	688.8	742.8	796.3	859.2	923.3	991.5	1056.3	1120.1	1175.8	1219.9	1245.9
30°	675.1	721.9	780.1	843.2	912.6	985.9	1053.4	1116.0	1168.0	1203.2	1213.7
32.5°	654.8	703.2	760.0	825.4	898.9	974.2	1044.6	1103.5	1147.0	1165.4	1152.8
35°	624.6	668.4	725.8	792.7	869.2	949.4	1018.9	1068.7	1091.0	1073.5	1030.0
37.5°	588.4	631.9	689.5	755.2	834.4	915.9	978.8	1014.6	1007.2	963.8	899.0
40°	563.0	603.6	658.5	729.6	806.7	888.5	943.7	963.1	942.8	880.6	811.8
42.5°	534.9	574.5	629.6	698.1	779.8	855.2	903.4	905.0	871.0	796.6	727.5
45°	492.0	529.8	581.8	653.1	728.6	799.7	831.4	815.9	753.1	681.3	611.9
47.5°	449.7	482.4	533.7	601.4	673.1	733.0	748.7	720.7	653.8	584.2	519.8
50°	418.7	451.8	499.9	564.7	633.8	685.5	693.1	656.0	590.4	520.2	469.8
52.5°	389.1	421.8	468.2	528.1	591.4	638.1	638.3	595.3	529.9	467.5	420.5
55°	345.4	375.0	416.9	470.4	526.9	563.4	554.5	510.1	453.3	399.1	358.2
57.5°	303.5	329.1	367.7	412.5	462.2	492.3	477.5	434.8	384.1	338.1	307.0
60°	276.3	300.7	333.7	375.9	417.8	441.2	427.3	388.6	341.9	304.8	277.9
62.5°	249.9	270.5	302.2	338.8	377.6	395.1	382.6	344.5	304.2	270.6	248.7
65°	212.5	229.3	254.7	286.2	314.4	329.3	318.8	283.2	252.5	228.4	210.9
67.5°	177.7	190.8	210.0	235.2	259.2	267.3	257.7	232.9	206.9	187.6	175.3
70°	153.5	165.9	182.1	201.5	222.3	231.0	221.4	201.8	180.5	162.7	150.7
72.5°	132.5	142.0	155.7	172.3	188.6	197.2	190.7	171.8	153.8	140.6	130.4
75°	100.9	109.1	118.6	130.4	143.1	148.8	143.1	130.0	117.6	107.9	100.5
77.5°	73.4	77.8	85.1	93.9	101.8	106.2	101.3	92.5	84.9	78.2	74.5
80°	55.8	59.0	64.1	71.1	76.5	80.6	77.4	70.1	64.1	59.6	58.0
82.5°	40.6	42.7	46.1	51.3	54.9	57.0	55.6	50.3	47.9	43.9	42.3
85°	20.0	21.3	23.5	25.0	28.2	28.5	28.9	26.7	24.5	23.5	22.2
87.5°	7.7	8.4	9.5	10.8	12.1	12.6	12.7	13.0	12.2	12.2	11.4
90°	4.5	6.5	8.6	10.5	12.3	13.8	15.2	16.7	18.2	19.2	20.4
92.5°	20.0	22.3	24.6	26.9	28.6	29.6	30.7	31.7	32.7	33.3	34.0
95°	51.2	52.8	54.5	56.2	57.6	58.9	60.2	61.5	62.8	63.3	63.8
97.5°	87.9	89.2	90.5	91.9	93.3	94.7	96.3	97.8	99.3	100.0	100.6
100°	116.3	117.1	117.8	118.5	119.8	121.4	123.0	124.7	126.4	126.7	127.1
102.5°	146.3	146.6	146.9	147.2	148.1	149.6	151.1	152.6	154.1	154.7	155.2
105°	192.7	192.8	193.0	193.1	193.6	194.4	195.1	195.8	196.6	197.1	197.7
107.5°	241.4	241.6	241.8	242.1	242.2	242.3	242.5	242.6	242.6	243.2	243.7
110°	274.6	274.9	275.3	275.7	275.7	275.6	275.4	275.2	275.0	274.7	274.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	308.7	308.8	308.8	308.8	308.8	308.4	308.1	307.8	307.4	307.4	307.3
115°	360.1	360.1	360.1	360.1	360.0	359.5	359.2	358.8	358.5	358.2	358.1
117.5°	408.8	409.0	409.1	409.3	409.2	409.0	408.7	408.5	408.1	407.6	406.9
120°	441.8	442.5	443.3	444.0	444.1	443.5	443.0	442.5	441.9	441.0	440.0
122.5°	475.1	475.3	475.6	475.9	476.0	475.6	475.4	475.2	474.9	474.3	473.7
125°	524.5	524.5	524.5	524.5	524.4	524.2	524.0	523.8	523.7	523.3	522.9
127.5°	570.1	570.6	571.2	571.8	571.9	571.6	571.3	571.0	570.7	570.4	570.0
130°	601.9	602.3	602.9	603.5	603.7	603.7	603.7	603.7	603.7	603.4	603.0
132.5°	634.1	634.5	634.9	635.3	635.4	635.3	635.1	635.0	634.8	634.5	634.1
135°	677.5	678.7	679.7	680.9	681.4	681.4	681.4	681.4	681.4	681.0	680.7
137.5°	723.5	724.1	724.6	725.0	725.5	725.8	726.1	726.4	726.7	726.2	725.7
140°	754.5	754.8	755.2	755.5	755.7	755.7	755.7	755.7	755.7	755.5	755.4
142.5°	782.9	783.3	783.6	784.0	784.1	783.9	783.7	783.7	783.5	783.4	783.4
145°	822.6	823.3	824.0	824.8	825.2	825.4	825.6	825.7	825.9	825.7	825.6
147.5°	861.7	862.6	863.4	864.3	864.7	864.5	864.4	864.2	864.1	864.0	863.8
150°	885.3	886.1	886.8	887.5	887.9	887.9	887.9	887.9	887.9	887.9	887.9
152.5°	907.5	907.9	908.3	908.8	909.1	909.2	909.4	909.5	909.7	910.1	910.5
155°	941.6	941.6	941.6	941.6	941.5	941.3	941.1	940.9	940.8	941.5	942.2
157.5°	970.3	970.0	969.6	969.3	969.1	969.1	969.1	969.0	969.0	969.6	970.1
160°	987.7	987.4	987.2	987.1	986.9	986.7	986.5	986.3	986.2	986.7	987.2
162.5°	1003.2	1002.7	1002.2	1001.8	1001.4	1001.3	1001.1	1000.9	1000.7	1001.7	1002.7
165°	1024.4	1023.9	1023.4	1022.8	1022.3	1022.0	1021.6	1021.2	1020.8	1022.0	1023.0
167.5°	1040.6	1039.8	1039.0	1038.3	1037.9	1038.0	1038.0	1038.0	1038.0	1039.1	1040.2
170°	1049.7	1048.7	1047.8	1046.9	1046.5	1046.8	1046.9	1047.1	1047.3	1048.4	1049.5
172.5°	1056.4	1055.6	1054.9	1054.1	1053.8	1053.8	1053.9	1053.9	1053.9	1055.2	1056.4
175°	1065.4	1064.5	1063.6	1062.6	1062.1	1061.8	1061.7	1061.5	1061.4	1062.6	1063.9
177.5°	1068.5	1067.8	1067.1	1066.3	1065.9	1065.9	1065.9	1065.9	1065.9	1067.0	1068.0
180°	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	765.7	765.7	765.7	765.7	765.7	765.7	765.7
2.5°	807.1	807.6	809.9	811.7	812.2	814.7	815.0
5°	878.1	883.5	893.9	894.9	896.4	904.7	898.4
7.5°	961.2	974.9	984.0	992.1	995.0	998.6	997.8
10°	1014.5	1034.8	1044.9	1061.1	1061.8	1065.8	1063.3
12.5°	1068.0	1091.6	1110.1	1113.1	1126.7	1128.8	1132.4
15°	1143.9	1169.0	1194.7	1203.9	1222.5	1227.0	1234.0
17.5°	1215.2	1240.8	1258.8	1282.6	1290.3	1300.6	1293.6
20°	1254.3	1282.2	1305.0	1323.7	1331.7	1337.4	1336.8
22.5°	1277.9	1306.0	1324.5	1338.7	1346.1	1348.6	1348.4
25°	1292.7	1308.9	1314.6	1320.0	1311.7	1308.9	1310.1
27.5°	1251.6	1247.3	1232.5	1212.9	1192.6	1176.5	1167.8
30°	1195.0	1170.2	1147.7	1108.4	1088.0	1076.0	1065.2
32.5°	1114.8	1075.5	1032.3	996.2	973.1	955.2	952.5
35°	977.4	918.4	865.4	821.3	798.4	779.1	774.6
37.5°	831.0	769.6	721.9	683.1	658.5	644.9	632.2
40°	733.7	681.1	634.1	601.1	582.4	572.6	564.7
42.5°	658.8	610.7	564.1	538.9	522.0	516.0	511.4
45°	555.5	510.7	478.3	459.3	449.5	439.4	434.6
47.5°	472.6	436.3	414.9	398.8	388.2	382.2	379.1
50°	425.7	395.9	376.8	364.5	355.0	350.2	347.6
52.5°	384.1	359.6	343.6	333.8	327.3	323.8	322.8
55°	330.8	312.2	302.0	293.4	288.7	285.5	284.2
57.5°	287.6	273.2	265.0	257.9	256.1	253.4	252.5
60°	259.2	248.1	241.1	236.4	234.7	231.5	232.2
62.5°	234.1	224.9	219.0	216.3	214.2	211.5	212.4
65°	198.0	191.3	188.1	185.6	183.0	181.5	182.7
67.5°	166.1	161.5	157.2	155.7	154.5	154.3	152.9
70°	145.3	141.5	137.7	136.7	136.7	135.4	135.1
72.5°	125.2	122.5	119.9	119.2	118.2	118.7	117.4
75°	96.8	94.5	93.6	92.6	92.3	92.3	91.4
77.5°	71.5	69.9	68.3	68.3	67.2	66.8	66.6
80°	54.2	53.6	52.3	52.3	51.7	52.0	51.4
82.5°	40.8	39.9	39.6	39.1	38.2	38.3	37.7
85°	21.9	21.0	20.6	19.6	19.0	19.6	19.0
87.5°	11.9	11.9	11.7	11.3	11.2	11.3	10.5
90°	21.4	22.6	23.3	23.6	24.1	24.4	24.8
92.5°	34.7	35.4	35.8	36.0	36.2	36.4	36.7
95°	64.4	65.0	65.2	65.2	65.2	65.2	65.2
97.5°	101.3	101.9	102.2	102.2	102.2	102.2	102.2
100°	127.4	127.8	128.0	128.0	128.0	128.0	128.0
102.5°	155.6	156.2	156.5	156.6	156.8	156.9	157.1
105°	198.2	198.8	199.3	199.9	200.4	201.0	201.5
107.5°	244.2	244.8	244.9	244.9	244.9	244.8	244.8
110°	273.9	273.5	273.7	274.2	274.8	275.3	275.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	307.2	307.1	307.1	307.3	307.4	307.4	307.6
115°	357.9	357.8	357.5	357.3	357.2	357.0	356.8
117.5°	406.3	405.7	405.2	404.8	404.5	404.1	403.7
120°	439.1	438.2	437.9	438.3	438.6	439.0	439.4
122.5°	473.0	472.4	471.7	471.1	470.4	469.8	469.1
125°	522.5	522.2	521.8	521.5	521.1	520.7	520.3
127.5°	569.6	569.2	568.9	568.6	568.3	568.0	567.8
130°	602.7	602.3	601.8	601.0	600.3	599.6	598.8
132.5°	633.7	633.3	633.0	632.8	632.4	632.1	631.9
135°	680.3	680.0	679.5	678.9	678.3	677.8	677.3
137.5°	725.2	724.7	724.6	724.6	724.8	724.9	725.0
140°	755.2	755.0	754.8	754.6	754.5	754.2	754.1
142.5°	783.3	783.3	783.3	783.3	783.3	783.2	783.2
145°	825.4	825.2	824.8	824.3	823.7	823.2	822.6
147.5°	863.6	863.5	863.3	863.2	863.0	862.7	862.6
150°	887.9	887.9	887.8	887.6	887.5	887.2	887.0
152.5°	911.0	911.4	911.4	910.9	910.4	910.0	909.5
155°	943.0	943.7	943.7	943.0	942.2	941.5	940.8
157.5°	970.6	971.2	971.2	970.5	969.9	969.3	968.7
160°	987.8	988.4	988.1	987.2	986.3	985.5	984.5
162.5°	1003.6	1004.7	1004.7	1003.8	1002.9	1001.9	1001.0
165°	1024.2	1025.2	1025.4	1024.7	1023.9	1023.2	1022.5
167.5°	1041.3	1042.4	1042.4	1041.3	1040.2	1039.0	1037.9
170°	1050.6	1051.7	1051.6	1050.4	1049.0	1047.7	1046.4
172.5°	1057.6	1058.9	1058.8	1057.6	1056.3	1055.0	1053.7
175°	1065.2	1066.5	1066.5	1065.2	1063.9	1062.6	1061.4
177.5°	1069.0	1070.1	1070.0	1068.8	1067.6	1066.5	1065.3
180°	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0	1068.0

(END OF REPORT)