

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: P331778-940

Luminaire Tested: **S122RDIW-S290D1240U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331778-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S290D1240U940-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

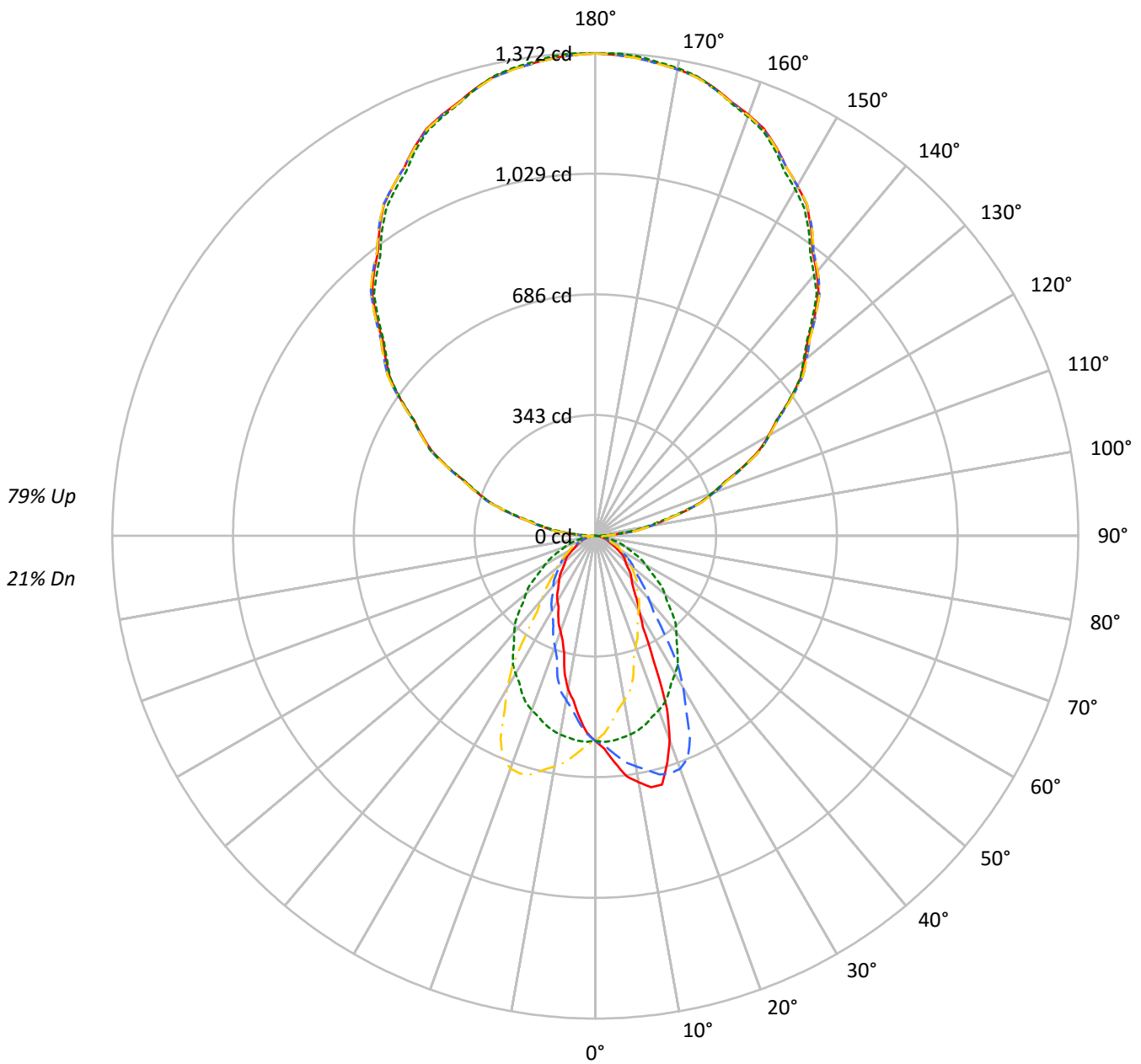
Lumens per Lamp: N/A  
Luminaire Lumens: 4844.1 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (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



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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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	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	21
1	92	88	84	81	81	78	75	72	59	57	55	42	41	40	26	26	25	18
2	84	77	71	66	74	68	64	60	52	49	46	37	35	34	24	23	22	16
3	76	68	61	56	67	60	55	50	46	42	39	33	31	29	21	20	19	14
4	70	60	53	47	62	54	47	43	41	37	34	30	27	25	19	18	17	12
5	64	53	46	40	57	48	41	37	37	33	29	27	24	22	17	16	15	11
6	59	48	40	35	52	43	36	32	33	29	25	24	21	19	16	14	13	10
7	55	43	36	31	48	39	32	28	30	26	22	22	19	17	15	13	12	9
8	51	39	32	27	45	35	29	25	27	23	20	20	17	15	14	12	11	8
9	47	36	29	24	42	32	26	22	25	21	18	19	16	14	13	11	10	7
10	44	33	26	21	39	29	24	20	23	19	16	17	14	12	12	10	9	7

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

	0°	90°	180°	270°
0°	9411	9411	9411	9411
5°	10511	9470	8399	9470
10°	11663	9404	7279	9404
15°	12236	9267	5735	9267
20°	10608	9062	4962	9062
25°	6957	8783	4431	8783
30°	4683	8444	4010	8444
35°	3792	8016	3617	8016
40°	3372	7552	3347	7552
45°	3053	7005	2987	7005
50°	2778	6465	2768	6465
55°	2609	5866	2578	5866
60°	2186	5318	2160	5318
65°	1841	4829	2090	4829
70°	1699	4310	1969	4310
75°	1591	3755	1822	3755
80°	1469	3096	1618	3096
85°	1352	2445	1426	2445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.3	1.1
10°-20°	154.0	3.2
20°-30°	198.4	4.1
30°-40°	188.6	3.9
40°-50°	161.5	3.3
50°-60°	123.0	2.5
60°-70°	77.8	1.6
70°-80°	38.8	0.8
80°-90°	15.6	0.3
90°-100°	86.8	1.8
100°-110°	269.6	5.6
110°-120°	460.9	9.5
120°-130°	606.1	12.5
130°-140°	680.3	14.0
140°-150°	667.1	13.8
150°-160°	559.5	11.6
160°-170°	371.1	7.7
170°-180°	129.7	2.7
0°-30°	407.7	8.4
0°-40°	596.2	12.3
0°-60°	880.8	18.2
0°-90°	1012.9	20.9
90°-120°	817.4	16.9
90°-150°	2770.9	57.2
90°-180°	3831.0	79.1
0°-180°	4844.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	583	583	583	583	583	
5°	648	584	518	584	648	64
15°	732	554	343	554	732	197
25°	390	493	249	493	390	185
35°	192	407	184	407	192	123
45°	134	307	131	307	134	103
55°	93	208	92	208	93	81
65°	48	126	55	126	48	49
75°	26	60	29	60	26	27
85°	7	13	8	13	7	9
90°	39	1	39	1	39	17
95°	72	60	72	60	72	80
105°	257	249	257	249	257	270
115°	462	462	462	462	462	457
125°	675	673	675	673	675	602
135°	881	871	881	871	881	678
145°	1068	1057	1068	1057	1068	667
155°	1218	1208	1218	1208	1218	560
165°	1316	1315	1316	1315	1316	371
175°	1363	1368	1363	1368	1363	130
180°	1370	1370	1370	1370	1370	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	606.6	607.1	607.6	606.5	606.5	605.5	603.3	601.7	597.2	596.6	596.6
5°	648.5	648.2	649.0	646.3	642.7	641.9	638.0	632.9	627.7	621.9	620.6
7.5°	690.3	689.6	688.0	687.6	684.8	678.7	672.5	665.9	657.2	648.6	644.4
10°	711.4	718.1	714.0	706.9	708.3	698.8	693.8	685.0	677.7	664.9	662.2
12.5°	732.1	734.8	733.4	729.4	727.6	721.0	714.2	706.6	693.1	681.7	671.7
15°	732.0	735.8	736.9	735.7	736.6	736.3	732.6	726.4	714.6	702.0	691.1
17.5°	678.0	680.6	687.3	691.8	697.5	709.4	715.4	717.6	716.0	708.7	701.1
20°	617.4	613.0	631.6	641.1	649.2	669.4	686.9	693.6	704.3	704.1	702.0
22.5°	531.5	532.5	550.2	561.5	585.1	605.5	625.3	650.4	671.2	684.9	692.9
25°	390.5	398.2	415.8	431.2	457.5	495.3	529.5	569.2	606.6	636.2	664.4
27.5°	293.3	293.9	307.8	322.1	337.7	368.5	411.7	459.1	512.5	556.6	607.3
30°	251.2	249.9	255.8	264.6	277.9	301.8	334.2	380.8	434.1	500.5	559.6
32.5°	221.3	221.4	225.9	232.3	243.3	259.5	281.7	319.6	369.9	435.2	504.5
35°	192.4	192.3	195.5	200.1	204.7	215.1	230.3	250.1	284.8	345.7	416.6
37.5°	171.7	172.5	174.2	177.1	182.2	188.0	197.1	210.4	235.1	271.2	330.7
40°	160.0	160.4	162.6	165.1	168.1	172.5	180.0	190.8	208.8	237.6	281.2
42.5°	149.4	149.7	151.3	153.6	156.0	160.4	166.7	175.9	190.6	212.9	248.9
45°	133.7	133.7	135.1	136.1	138.8	142.8	147.8	155.6	165.7	182.3	206.2
47.5°	119.0	119.0	120.0	121.7	123.4	126.5	131.5	137.9	145.2	158.0	178.4
50°	110.6	110.8	111.4	112.8	113.9	116.6	120.6	126.0	133.7	143.7	160.6
52.5°	103.8	103.7	104.4	105.0	105.8	107.7	110.7	115.5	122.3	131.0	145.1
55°	92.7	91.9	93.2	94.2	94.8	95.6	97.2	100.2	106.1	113.4	123.9
57.5°	79.0	78.6	79.5	80.4	82.4	84.5	86.0	87.8	90.9	96.1	106.6
60°	67.7	67.7	69.5	70.1	72.3	75.2	78.0	79.6	82.7	86.1	93.8
62.5°	57.6	57.8	58.6	59.2	60.5	63.9	67.9	71.5	74.4	77.7	82.8
65°	48.2	48.6	48.6	49.0	49.8	50.6	52.3	55.1	60.2	64.8	68.7
67.5°	40.9	41.0	41.2	41.6	41.7	42.6	43.3	44.6	45.7	50.1	54.9
70°	36.0	36.6	36.5	36.8	37.1	37.5	38.3	38.9	40.8	41.7	44.6
72.5°	31.5	31.9	31.9	32.2	32.7	32.8	33.4	34.1	35.2	36.0	37.6
75°	25.5	25.3	25.5	25.9	26.1	26.3	26.3	27.1	27.7	28.5	29.6
77.5°	19.7	19.9	19.9	19.9	20.0	20.3	20.2	20.6	21.2	21.7	22.1
80°	15.8	16.0	15.8	16.0	16.2	16.4	16.2	16.4	17.0	17.4	17.4
82.5°	12.2	12.3	12.4	12.4	12.5	12.5	12.8	12.8	13.3	13.2	13.4
85°	7.3	7.1	7.1	7.1	7.3	7.5	7.3	7.3	7.5	7.5	7.5
87.5°	10.4	10.5	10.5	10.4	10.4	10.4	10.5	10.8	10.8	11.0	9.7
90°	39.3	39.1	38.8	38.5	38.3	38.4	39.0	39.4	39.9	40.5	34.8
92.5°	37.5	37.5	37.4	37.3	37.3	37.2	37.1	37.0	36.8	36.7	35.4
95°	71.7	72.2	72.7	73.2	73.7	74.0	74.0	74.0	74.0	74.0	73.5
97.5°	124.2	124.2	124.3	124.3	124.4	124.4	124.4	124.4	124.4	124.4	123.4
100°	158.4	158.6	158.9	159.2	159.4	159.5	159.5	159.5	159.5	159.5	158.8
102.5°	197.2	197.5	197.8	198.0	198.3	198.3	198.1	197.9	197.7	197.5	196.5
105°	256.7	256.7	256.7	256.7	256.7	256.5	255.9	255.4	254.9	254.4	253.9
107.5°	312.6	313.8	315.0	316.2	317.4	317.9	317.6	317.4	317.3	317.0	317.0
110°	356.1	356.9	357.7	358.5	359.2	359.6	359.6	359.6	359.6	359.6	359.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	397.7	398.3	398.9	399.4	400.0	400.6	401.2	401.8	402.4	403.1	403.2
115°	462.5	463.2	464.0	464.8	465.6	466.1	466.4	466.6	466.9	467.1	467.6
117.5°	524.2	525.0	525.8	526.6	527.4	528.0	528.6	529.2	529.9	530.5	531.9
120°	567.8	568.5	569.3	570.0	570.8	571.1	571.1	571.1	571.1	571.1	573.2
122.5°	610.3	610.8	611.4	612.0	612.5	613.1	613.8	614.4	614.9	615.5	617.0
125°	675.2	675.5	675.7	676.0	676.3	676.8	677.5	678.3	679.1	679.8	680.6
127.5°	734.4	735.3	736.1	736.9	737.7	738.6	739.5	740.5	741.4	742.3	743.2
130°	776.9	778.0	779.1	780.1	781.1	781.9	782.4	782.9	783.4	783.9	784.4
132.5°	817.7	818.5	819.3	820.2	821.0	822.0	823.0	824.2	825.4	826.4	826.3
135°	881.0	881.8	882.6	883.3	884.1	884.7	884.9	885.2	885.4	885.6	885.2
137.5°	938.4	939.4	940.5	941.5	942.5	943.2	943.3	943.5	943.8	944.0	943.3
140°	978.2	979.2	980.3	981.2	982.3	982.8	982.8	982.8	982.8	982.8	981.5
142.5°	1014.2	1015.3	1016.3	1017.4	1018.3	1018.8	1018.6	1018.3	1018.2	1018.0	1017.1
145°	1068.4	1069.4	1070.4	1071.5	1072.5	1072.8	1072.6	1072.4	1072.1	1071.8	1070.3
147.5°	1116.7	1117.7	1118.7	1119.6	1120.6	1120.8	1120.3	1119.6	1119.1	1118.6	1117.5
150°	1148.2	1148.9	1149.7	1150.5	1151.2	1151.2	1150.5	1149.7	1148.9	1148.2	1147.1
152.5°	1177.8	1178.8	1179.7	1180.6	1181.6	1181.6	1180.6	1179.7	1178.8	1177.8	1176.5
155°	1217.5	1218.3	1219.1	1219.9	1220.6	1220.3	1219.1	1217.8	1216.5	1215.2	1214.4
157.5°	1251.7	1252.9	1254.2	1255.4	1256.7	1256.4	1254.6	1252.9	1251.2	1249.5	1248.9
160°	1273.0	1274.1	1275.1	1276.1	1277.1	1276.8	1275.3	1273.8	1272.2	1270.7	1270.4
162.5°	1291.6	1292.7	1294.0	1295.2	1296.5	1296.2	1294.4	1292.7	1290.9	1289.2	1289.0
165°	1315.8	1317.1	1318.4	1319.6	1320.9	1320.7	1318.8	1317.1	1315.3	1313.5	1313.5
167.5°	1335.7	1337.0	1338.4	1339.7	1341.0	1340.8	1339.0	1337.2	1335.4	1333.6	1333.6
170°	1345.9	1347.4	1349.0	1350.5	1352.0	1351.9	1350.1	1348.3	1346.5	1344.7	1345.0
172.5°	1354.2	1355.8	1357.3	1358.8	1360.3	1360.2	1358.4	1356.6	1354.9	1353.0	1353.3
175°	1363.2	1364.8	1366.3	1367.8	1369.4	1369.2	1367.4	1365.7	1363.9	1362.0	1362.5
177.5°	1367.3	1368.6	1369.8	1371.1	1372.3	1372.3	1371.1	1369.8	1368.6	1367.3	1367.8
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	596.9	595.6	594.4	591.6	590.0	586.8	586.4	586.2	582.0	577.9	576.8
5°	617.4	614.1	609.3	603.6	597.7	591.7	587.6	584.3	576.2	568.6	564.1
7.5°	638.0	631.1	622.7	612.0	603.0	593.0	585.5	578.8	567.3	556.2	548.8
10°	653.4	642.1	631.0	616.2	604.6	593.3	582.7	573.6	560.7	546.1	535.7
12.5°	663.0	650.5	635.2	620.7	605.7	591.3	577.2	565.5	550.3	535.2	523.0
15°	675.9	662.5	643.9	623.2	604.0	585.1	569.0	554.4	534.6	516.5	501.5
17.5°	686.5	668.1	648.1	624.2	601.9	578.0	557.1	538.5	516.4	494.6	477.0
20°	689.9	671.6	648.5	624.6	598.3	570.2	547.7	527.4	503.7	480.0	459.8
22.5°	687.8	673.6	647.9	619.3	592.4	562.9	537.5	514.0	487.7	463.5	440.1
25°	673.5	668.6	644.4	613.1	582.4	548.1	518.7	493.0	463.1	437.1	411.6
27.5°	640.2	650.7	635.6	602.4	568.1	531.5	498.4	469.1	438.0	408.8	383.4
30°	608.1	632.1	625.7	594.9	556.6	520.6	483.5	452.9	419.7	389.7	364.6
32.5°	564.2	604.0	610.3	584.5	544.9	505.3	466.5	436.0	401.4	369.8	345.3
35°	494.2	553.8	581.1	564.7	525.0	482.2	442.2	406.7	371.8	340.7	316.4
37.5°	410.8	492.0	537.5	538.7	502.2	457.8	414.1	378.9	343.2	312.6	286.3
40°	356.7	444.6	504.0	517.1	486.3	438.4	394.1	358.3	323.5	293.5	263.3
42.5°	308.1	395.7	468.6	491.5	467.1	419.4	375.1	337.6	303.7	275.4	244.5
45°	249.1	325.7	406.1	447.0	433.5	389.3	342.5	306.8	275.1	250.6	221.0
47.5°	210.2	264.1	342.0	397.3	397.1	356.8	310.7	276.6	247.1	224.1	200.2
50°	188.0	235.0	300.8	363.6	368.8	335.0	291.2	257.4	229.9	205.8	186.5
52.5°	168.0	206.8	265.9	326.2	341.2	311.8	269.4	238.2	211.4	189.2	172.8
55°	142.0	172.0	217.0	273.2	296.0	275.3	237.6	208.4	186.7	168.1	153.9
57.5°	120.1	142.6	178.7	224.0	250.4	237.5	206.3	182.6	164.1	147.2	136.1
60°	106.4	124.8	155.3	193.2	222.4	213.3	186.7	164.7	148.9	134.3	123.8
62.5°	93.4	109.2	135.5	166.2	192.9	189.1	167.5	148.9	135.1	121.8	112.9
65°	75.2	86.7	107.2	131.3	152.8	154.5	138.9	126.4	114.0	103.5	95.6
67.5°	59.8	67.4	81.8	102.1	118.2	123.9	114.4	104.8	95.0	86.9	80.0
70°	50.5	56.5	67.1	83.5	98.3	104.3	98.8	91.3	82.8	76.2	70.3
72.5°	40.8	46.8	54.6	66.6	79.3	85.9	83.9	78.6	71.7	66.1	60.5
75°	30.8	32.6	37.9	46.0	55.9	61.6	63.0	60.2	54.7	50.5	47.2
77.5°	22.7	23.9	26.4	30.6	37.1	42.2	44.2	43.9	40.1	37.7	34.6
80°	18.2	18.8	20.1	21.8	26.8	31.8	33.3	33.3	30.6	29.6	26.6
82.5°	13.8	14.3	15.1	16.1	18.3	22.7	24.3	24.6	23.0	21.7	19.3
85°	7.9	7.7	8.1	8.7	9.1	10.3	12.8	13.2	12.8	11.1	10.5
87.5°	8.6	7.6	6.5	5.4	5.0	4.5	4.7	4.9	4.9	5.0	5.4
90°	29.2	23.5	17.8	13.5	10.4	7.3	4.3	1.2	4.3	7.3	10.4
92.5°	34.1	32.7	31.4	29.6	27.4	25.1	22.8	20.6	22.8	25.1	27.4
95°	72.9	72.5	72.0	70.4	67.9	65.3	62.7	60.1	62.7	65.3	67.9
97.5°	122.4	121.5	120.5	118.9	116.6	114.4	112.1	109.9	112.1	114.4	116.6
100°	158.0	157.2	156.5	155.1	153.0	151.0	148.9	146.9	148.9	151.0	153.0
102.5°	195.6	194.6	193.6	192.3	190.6	189.0	187.3	185.7	187.3	189.0	190.6
105°	253.3	252.8	252.4	251.6	250.9	250.1	249.3	248.6	249.3	250.1	250.9
107.5°	317.0	317.0	317.0	316.5	315.3	314.2	313.1	311.9	313.1	314.2	315.3
110°	359.6	359.6	359.6	358.8	357.3	355.7	354.2	352.7	354.2	355.7	357.3





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CATALOG NUMBER: S122RDIW-S290D1240U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	403.5	403.7	403.9	403.2	401.7	400.1	398.6	397.1	398.6	400.1	401.7
115°	468.1	468.7	469.1	468.7	467.1	465.6	464.0	462.5	464.0	465.6	467.1
117.5°	533.3	534.8	536.3	535.9	533.9	531.8	529.8	527.7	529.8	531.8	533.9
120°	575.3	577.4	579.4	579.4	577.4	575.3	573.2	571.1	573.2	575.3	577.4
122.5°	618.5	619.9	621.3	620.8	618.3	615.9	613.4	610.9	613.4	615.9	618.3
125°	681.4	682.2	683.0	682.2	679.8	677.5	675.2	672.9	675.2	677.5	679.8
127.5°	744.1	745.1	746.0	745.0	742.1	739.1	736.2	733.3	736.2	739.1	742.1
130°	785.0	785.5	786.0	784.5	781.2	777.9	774.5	771.2	774.5	777.9	781.2
132.5°	826.3	826.2	826.1	824.7	821.9	819.2	816.5	813.8	816.5	819.2	821.9
135°	884.7	884.1	883.6	882.0	879.1	876.3	873.4	870.7	873.4	876.3	879.1
137.5°	942.6	941.9	941.3	939.8	937.5	935.1	932.8	930.5	932.8	935.1	937.5
140°	980.3	978.9	977.7	975.9	973.6	971.3	968.9	966.6	968.9	971.3	973.6
142.5°	1016.2	1015.3	1014.4	1012.9	1010.6	1008.3	1005.9	1003.6	1005.9	1008.3	1010.6
145°	1068.7	1067.2	1065.7	1064.0	1062.2	1060.4	1058.6	1056.8	1058.6	1060.4	1062.2
147.5°	1116.5	1115.4	1114.5	1112.9	1110.7	1108.5	1106.3	1104.2	1106.3	1108.5	1110.7
150°	1146.1	1145.0	1144.1	1142.7	1141.2	1139.7	1138.1	1136.6	1138.1	1139.7	1141.2
152.5°	1175.3	1174.0	1172.8	1171.4	1169.8	1168.3	1166.8	1165.3	1166.8	1168.3	1169.8
155°	1213.6	1212.9	1212.1	1211.4	1210.6	1209.8	1209.1	1208.3	1209.1	1209.8	1210.6
157.5°	1248.5	1248.0	1247.6	1247.1	1246.6	1246.1	1245.5	1245.0	1245.5	1246.1	1246.6
160°	1270.2	1269.9	1269.7	1269.3	1268.8	1268.3	1267.7	1267.2	1267.7	1268.3	1268.8
162.5°	1288.7	1288.4	1288.2	1288.0	1287.9	1287.8	1287.7	1287.5	1287.7	1287.8	1287.9
165°	1313.5	1313.5	1313.5	1313.6	1313.8	1314.1	1314.4	1314.6	1314.4	1314.1	1313.8
167.5°	1333.7	1333.7	1333.8	1334.2	1335.0	1335.8	1336.5	1337.3	1336.5	1335.8	1335.0
170°	1345.2	1345.5	1345.8	1346.2	1347.0	1347.8	1348.5	1349.3	1348.5	1347.8	1347.0
172.5°	1353.5	1353.8	1354.1	1354.6	1355.3	1356.1	1356.9	1357.6	1356.9	1356.1	1355.3
175°	1363.1	1363.6	1364.1	1364.8	1365.5	1366.3	1367.1	1367.8	1367.1	1366.3	1365.5
177.5°	1368.2	1368.6	1369.0	1369.5	1370.1	1370.7	1371.4	1372.0	1371.4	1370.7	1370.1
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	574.7	573.5	571.4	568.2	566.2	562.8	560.6	561.9	562.2	561.9	561.6
5°	559.3	555.0	549.1	543.4	538.1	532.5	529.2	527.9	525.0	523.4	522.5
7.5°	540.6	533.2	525.0	515.1	506.7	497.8	493.4	491.2	485.4	482.2	479.5
10°	526.6	515.1	506.8	493.8	485.9	474.4	466.5	466.7	458.8	454.3	451.1
12.5°	511.2	498.6	484.7	473.1	462.1	452.8	443.3	439.4	431.1	426.8	418.0
15°	485.7	470.9	456.4	440.6	429.4	415.0	401.3	384.4	370.9	359.1	355.9
17.5°	457.9	439.5	424.9	406.4	387.3	363.1	347.1	337.3	329.2	323.0	318.3
20°	438.7	420.1	404.5	376.6	350.8	334.4	322.7	315.1	306.7	300.0	296.3
22.5°	418.7	399.2	377.9	346.7	326.6	313.5	303.1	294.4	288.6	283.5	280.1
25°	390.1	368.8	333.8	312.4	296.1	282.3	275.1	269.8	263.8	256.6	253.4
27.5°	360.0	326.2	301.0	285.0	269.6	260.6	254.0	246.2	240.8	237.6	234.2
30°	337.4	303.6	284.0	266.5	255.7	245.7	238.0	233.5	228.3	222.8	220.6
32.5°	312.4	285.3	266.4	252.0	240.9	232.4	226.3	219.1	215.3	212.0	207.3
35°	281.2	260.6	243.4	231.8	221.1	214.3	207.2	203.0	196.1	193.2	191.5
37.5°	254.8	237.0	224.2	211.8	203.4	195.8	191.5	184.7	181.7	177.7	173.9
40°	239.8	222.4	210.1	199.9	190.6	184.9	179.5	174.0	169.5	167.7	163.1
42.5°	224.6	210.4	198.0	187.0	180.7	174.7	167.8	163.8	159.2	156.2	153.4
45°	203.6	191.0	180.5	171.4	164.4	158.2	153.7	147.0	144.5	138.6	136.1
47.5°	185.1	173.4	163.4	154.7	148.0	143.9	137.4	132.2	128.0	124.3	121.2
50°	172.0	162.2	152.5	144.8	138.8	132.9	126.2	123.6	117.1	115.2	113.4
52.5°	160.0	150.7	141.9	134.3	128.2	122.5	116.6	113.2	108.8	107.0	105.7
55°	143.2	134.3	125.8	119.1	113.1	107.2	103.5	99.2	97.2	95.8	94.2
57.5°	126.4	118.3	111.8	105.0	98.9	94.3	90.1	87.5	85.4	83.6	81.6
60°	115.7	108.0	102.1	95.8	89.5	85.7	82.5	79.4	77.0	74.1	73.3
62.5°	104.3	97.6	92.2	86.1	80.6	77.1	74.0	71.2	68.2	64.1	63.0
65°	88.7	83.5	77.8	72.7	67.9	64.4	59.9	56.7	55.5	55.1	54.9
67.5°	74.6	69.6	64.7	59.6	55.2	52.0	49.7	49.2	48.3	48.2	47.5
70°	65.2	60.5	55.7	50.8	46.5	46.0	45.2	44.3	43.3	43.0	42.5
72.5°	56.8	52.0	47.1	43.2	41.4	40.7	39.9	39.0	38.3	37.9	37.7
75°	43.5	39.1	35.8	34.4	33.4	32.8	31.6	31.0	30.6	30.0	29.8
77.5°	31.4	28.8	27.4	26.5	25.4	24.8	24.1	23.5	23.0	22.9	22.6
80°	23.9	22.6	21.7	20.4	20.1	19.3	19.1	18.5	18.6	18.0	18.0
82.5°	18.5	17.0	16.1	15.6	15.2	14.5	14.4	14.1	14.1	13.6	13.6
85°	9.5	9.1	8.7	8.3	8.3	7.7	7.9	7.7	7.7	7.3	7.1
87.5°	5.8	6.5	7.3	8.4	9.5	10.5	10.4	10.2	10.1	10.0	9.7
90°	13.5	17.8	23.5	29.2	34.8	40.5	39.9	39.4	39.0	38.4	38.3
92.5°	29.6	31.4	32.7	34.1	35.4	36.7	36.8	37.0	37.1	37.2	37.3
95°	70.4	72.0	72.5	72.9	73.5	74.0	74.0	74.0	74.0	74.0	73.7
97.5°	118.9	120.5	121.5	122.4	123.4	124.4	124.4	124.4	124.4	124.4	124.4
100°	155.1	156.5	157.2	158.0	158.8	159.5	159.5	159.5	159.5	159.5	159.4
102.5°	192.3	193.6	194.6	195.6	196.5	197.5	197.7	197.9	198.1	198.3	198.3
105°	251.6	252.4	252.8	253.3	253.9	254.4	254.9	255.4	255.9	256.5	256.7
107.5°	316.5	317.0	317.0	317.0	317.0	317.0	317.3	317.4	317.6	317.9	317.4
110°	358.8	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.2



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	403.2	403.9	403.7	403.5	403.2	403.1	402.4	401.8	401.2	400.6	400.0
115°	468.7	469.1	468.7	468.1	467.6	467.1	466.9	466.6	466.4	466.1	465.6
117.5°	535.9	536.3	534.8	533.3	531.9	530.5	529.9	529.2	528.6	528.0	527.4
120°	579.4	579.4	577.4	575.3	573.2	571.1	571.1	571.1	571.1	571.1	570.8
122.5°	620.8	621.3	619.9	618.5	617.0	615.5	614.9	614.4	613.8	613.1	612.5
125°	682.2	683.0	682.2	681.4	680.6	679.8	679.1	678.3	677.5	676.8	676.3
127.5°	745.0	746.0	745.1	744.1	743.2	742.3	741.4	740.5	739.5	738.6	737.7
130°	784.5	786.0	785.5	785.0	784.4	783.9	783.4	782.9	782.4	781.9	781.1
132.5°	824.7	826.1	826.2	826.3	826.3	826.4	825.4	824.2	823.0	822.0	821.0
135°	882.0	883.6	884.1	884.7	885.2	885.6	885.4	885.2	884.9	884.7	884.1
137.5°	939.8	941.3	941.9	942.6	943.3	944.0	943.8	943.5	943.3	943.2	942.5
140°	975.9	977.7	978.9	980.3	981.5	982.8	982.8	982.8	982.8	982.8	982.3
142.5°	1012.9	1014.4	1015.3	1016.2	1017.1	1018.0	1018.2	1018.3	1018.6	1018.8	1018.3
145°	1064.0	1065.7	1067.2	1068.7	1070.3	1071.8	1072.1	1072.4	1072.6	1072.8	1072.5
147.5°	1112.9	1114.5	1115.4	1116.5	1117.5	1118.6	1119.1	1119.6	1120.3	1120.8	1120.6
150°	1142.7	1144.1	1145.0	1146.1	1147.1	1148.2	1148.9	1149.7	1150.5	1151.2	1151.2
152.5°	1171.4	1172.8	1174.0	1175.3	1176.5	1177.8	1178.8	1179.7	1180.6	1181.6	1181.6
155°	1211.4	1212.1	1212.9	1213.6	1214.4	1215.2	1216.5	1217.8	1219.1	1220.3	1220.6
157.5°	1247.1	1247.6	1248.0	1248.5	1248.9	1249.5	1251.2	1252.9	1254.6	1256.4	1256.7
160°	1269.3	1269.7	1269.9	1270.2	1270.4	1270.7	1272.2	1273.8	1275.3	1276.8	1277.1
162.5°	1288.0	1288.2	1288.4	1288.7	1289.0	1289.2	1290.9	1292.7	1294.4	1296.2	1296.5
165°	1313.6	1313.5	1313.5	1313.5	1313.5	1313.5	1315.3	1317.1	1318.8	1320.7	1320.9
167.5°	1334.2	1333.8	1333.7	1333.7	1333.6	1333.6	1335.4	1337.2	1339.0	1340.8	1341.0
170°	1346.2	1345.8	1345.5	1345.2	1345.0	1344.7	1346.5	1348.3	1350.1	1351.9	1352.0
172.5°	1354.6	1354.1	1353.8	1353.5	1353.3	1353.0	1354.9	1356.6	1358.4	1360.2	1360.3
175°	1364.8	1364.1	1363.6	1363.1	1362.5	1362.0	1363.9	1365.7	1367.4	1369.2	1369.4
177.5°	1369.5	1369.0	1368.6	1368.2	1367.8	1367.3	1368.6	1369.8	1371.1	1372.3	1372.3
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	559.8	560.1	559.6	559.9	559.6	560.1	559.8	561.6	561.9	562.2	561.9
5°	521.6	519.2	518.7	518.2	518.7	519.2	521.6	522.5	523.4	525.0	527.9
7.5°	476.0	475.6	474.6	473.1	474.6	475.6	476.0	479.5	482.2	485.4	491.2
10°	446.7	445.6	445.4	444.0	445.4	445.6	446.7	451.1	454.3	458.8	466.7
12.5°	412.2	405.7	405.1	401.5	405.1	405.7	412.2	418.0	426.8	431.1	439.4
15°	351.1	349.8	345.7	343.1	345.7	349.8	351.1	355.9	359.1	370.9	384.4
17.5°	316.0	312.0	310.8	310.2	310.8	312.0	316.0	318.3	323.0	329.2	337.3
20°	293.5	289.9	289.3	288.8	289.3	289.9	293.5	296.3	300.0	306.7	315.1
22.5°	277.9	274.1	272.6	271.3	272.6	274.1	277.9	280.1	283.5	288.6	294.4
25°	251.4	249.9	249.1	248.7	249.1	249.9	251.4	253.4	256.6	263.8	269.8
27.5°	230.6	227.5	226.9	225.8	226.9	227.5	230.6	234.2	237.6	240.8	246.2
30°	218.7	217.8	216.3	215.1	216.3	217.8	218.7	220.6	222.8	228.3	233.5
32.5°	204.8	203.9	202.7	202.2	202.7	203.9	204.8	207.3	212.0	215.3	219.1
35°	189.4	186.5	185.3	183.5	185.3	186.5	189.4	191.5	193.2	196.1	203.0
37.5°	173.1	171.6	169.9	170.5	169.9	171.6	173.1	173.9	177.7	181.7	184.7
40°	160.4	159.4	159.0	158.8	159.0	159.4	160.4	163.1	167.7	169.5	174.0
42.5°	150.3	147.6	146.5	146.5	146.5	147.6	150.3	153.4	156.2	159.2	163.8
45°	135.1	132.5	130.6	130.8	130.6	132.5	135.1	136.1	138.6	144.5	147.0
47.5°	119.5	119.4	118.2	118.6	118.2	119.4	119.5	121.2	124.3	128.0	132.2
50°	112.0	110.8	109.9	110.2	109.9	110.8	112.0	113.4	115.2	117.1	123.6
52.5°	104.9	103.8	103.2	104.1	103.2	103.8	104.9	105.7	107.0	108.8	113.2
55°	93.2	91.9	91.8	91.6	91.8	91.9	93.2	94.2	95.8	97.2	99.2
57.5°	80.1	79.3	78.0	77.6	78.0	79.3	80.1	81.6	83.6	85.4	87.5
60°	70.7	69.1	67.1	66.9	67.1	69.1	70.7	73.3	74.1	77.0	79.4
62.5°	62.1	61.8	61.3	61.3	61.3	61.8	62.1	63.0	64.1	68.2	71.2
65°	54.5	54.3	54.5	54.7	54.5	54.3	54.5	54.9	55.1	55.5	56.7
67.5°	47.4	47.1	46.7	46.9	46.7	47.1	47.4	47.5	48.2	48.3	49.2
70°	42.1	41.9	41.7	41.7	41.7	41.9	42.1	42.5	43.0	43.3	44.3
72.5°	36.9	36.9	36.7	36.6	36.7	36.9	36.9	37.7	37.9	38.3	39.0
75°	29.6	29.2	29.2	29.2	29.2	29.2	29.6	29.8	30.0	30.6	31.0
77.5°	22.6	22.3	22.1	21.9	22.1	22.3	22.6	22.6	22.9	23.0	23.5
80°	17.8	17.7	17.4	17.4	17.4	17.7	17.8	18.0	18.0	18.6	18.5
82.5°	13.6	13.4	13.4	13.2	13.4	13.4	13.6	13.6	13.6	14.1	14.1
85°	7.3	7.5	7.3	7.7	7.3	7.5	7.3	7.1	7.3	7.7	7.7
87.5°	9.8	9.7	9.9	9.8	9.9	9.7	9.8	9.7	10.0	10.1	10.2
90°	38.5	38.8	39.1	39.3	39.1	38.8	38.5	38.3	38.4	39.0	39.4
92.5°	37.3	37.4	37.5	37.5	37.5	37.4	37.3	37.3	37.2	37.1	37.0
95°	73.2	72.7	72.2	71.7	72.2	72.7	73.2	73.7	74.0	74.0	74.0
97.5°	124.3	124.3	124.2	124.2	124.2	124.3	124.3	124.4	124.4	124.4	124.4
100°	159.2	158.9	158.6	158.4	158.6	158.9	159.2	159.4	159.5	159.5	159.5
102.5°	198.0	197.8	197.5	197.2	197.5	197.8	198.0	198.3	198.3	198.1	197.9
105°	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.5	255.9	255.4
107.5°	316.2	315.0	313.8	312.6	313.8	315.0	316.2	317.4	317.9	317.6	317.4
110°	358.5	357.7	356.9	356.1	356.9	357.7	358.5	359.2	359.6	359.6	359.6



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	399.4	398.9	398.3	397.7	398.3	398.9	399.4	400.0	400.6	401.2	401.8
115°	464.8	464.0	463.2	462.5	463.2	464.0	464.8	465.6	466.1	466.4	466.6
117.5°	526.6	525.8	525.0	524.2	525.0	525.8	526.6	527.4	528.0	528.6	529.2
120°	570.0	569.3	568.5	567.8	568.5	569.3	570.0	570.8	571.1	571.1	571.1
122.5°	612.0	611.4	610.8	610.3	610.8	611.4	612.0	612.5	613.1	613.8	614.4
125°	676.0	675.7	675.5	675.2	675.5	675.7	676.0	676.3	676.8	677.5	678.3
127.5°	736.9	736.1	735.3	734.4	735.3	736.1	736.9	737.7	738.6	739.5	740.5
130°	780.1	779.1	778.0	776.9	778.0	779.1	780.1	781.1	781.9	782.4	782.9
132.5°	820.2	819.3	818.5	817.7	818.5	819.3	820.2	821.0	822.0	823.0	824.2
135°	883.3	882.6	881.8	881.0	881.8	882.6	883.3	884.1	884.7	884.9	885.2
137.5°	941.5	940.5	939.4	938.4	939.4	940.5	941.5	942.5	943.2	943.3	943.5
140°	981.2	980.3	979.2	978.2	979.2	980.3	981.2	982.3	982.8	982.8	982.8
142.5°	1017.4	1016.3	1015.3	1014.2	1015.3	1016.3	1017.4	1018.3	1018.8	1018.6	1018.3
145°	1071.5	1070.4	1069.4	1068.4	1069.4	1070.4	1071.5	1072.5	1072.8	1072.6	1072.4
147.5°	1119.6	1118.7	1117.7	1116.7	1117.7	1118.7	1119.6	1120.6	1120.8	1120.3	1119.6
150°	1150.5	1149.7	1148.9	1148.2	1148.9	1149.7	1150.5	1151.2	1151.2	1150.5	1149.7
152.5°	1180.6	1179.7	1178.8	1177.8	1178.8	1179.7	1180.6	1181.6	1181.6	1180.6	1179.7
155°	1219.9	1219.1	1218.3	1217.5	1218.3	1219.1	1219.9	1220.6	1220.3	1219.1	1217.8
157.5°	1255.4	1254.2	1252.9	1251.7	1252.9	1254.2	1255.4	1256.7	1256.4	1254.6	1252.9
160°	1276.1	1275.1	1274.1	1273.0	1274.1	1275.1	1276.1	1277.1	1276.8	1275.3	1273.8
162.5°	1295.2	1294.0	1292.7	1291.6	1292.7	1294.0	1295.2	1296.5	1296.2	1294.4	1292.7
165°	1319.6	1318.4	1317.1	1315.8	1317.1	1318.4	1319.6	1320.9	1320.7	1318.8	1317.1
167.5°	1339.7	1338.4	1337.0	1335.7	1337.0	1338.4	1339.7	1341.0	1340.8	1339.0	1337.2
170°	1350.5	1349.0	1347.4	1345.9	1347.4	1349.0	1350.5	1352.0	1351.9	1350.1	1348.3
172.5°	1358.8	1357.3	1355.8	1354.2	1355.8	1357.3	1358.8	1360.3	1360.2	1358.4	1356.6
175°	1367.8	1366.3	1364.8	1363.2	1364.8	1366.3	1367.8	1369.4	1369.2	1367.4	1365.7
177.5°	1371.1	1369.8	1368.6	1367.3	1368.6	1369.8	1371.1	1372.3	1372.3	1371.1	1369.8
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	560.6	562.8	566.2	568.2	571.4	573.5	574.7	576.8	577.9	582.0	586.2
5°	529.2	532.5	538.1	543.4	549.1	555.0	559.3	564.1	568.6	576.2	584.3
7.5°	493.4	497.8	506.7	515.1	525.0	533.2	540.6	548.8	556.2	567.3	578.8
10°	466.5	474.4	485.9	493.8	506.8	515.1	526.6	535.7	546.1	560.7	573.6
12.5°	443.3	452.8	462.1	473.1	484.7	498.6	511.2	523.0	535.2	550.3	565.5
15°	401.3	415.0	429.4	440.6	456.4	470.9	485.7	501.5	516.5	534.6	554.4
17.5°	347.1	363.1	387.3	406.4	424.9	439.5	457.9	477.0	494.6	516.4	538.5
20°	322.7	334.4	350.8	376.6	404.5	420.1	438.7	459.8	480.0	503.7	527.4
22.5°	303.1	313.5	326.6	346.7	377.9	399.2	418.7	440.1	463.5	487.7	514.0
25°	275.1	282.3	296.1	312.4	333.8	368.8	390.1	411.6	437.1	463.1	493.0
27.5°	254.0	260.6	269.6	285.0	301.0	326.2	360.0	383.4	408.8	438.0	469.1
30°	238.0	245.7	255.7	266.5	284.0	303.6	337.4	364.6	389.7	419.7	452.9
32.5°	226.3	232.4	240.9	252.0	266.4	285.3	312.4	345.3	369.8	401.4	436.0
35°	207.2	214.3	221.1	231.8	243.4	260.6	281.2	316.4	340.7	371.8	406.7
37.5°	191.5	195.8	203.4	211.8	224.2	237.0	254.8	286.3	312.6	343.2	378.9
40°	179.5	184.9	190.6	199.9	210.1	222.4	239.8	263.3	293.5	323.5	358.3
42.5°	167.8	174.7	180.7	187.0	198.0	210.4	224.6	244.5	275.4	303.7	337.6
45°	153.7	158.2	164.4	171.4	180.5	191.0	203.6	221.0	250.6	275.1	306.8
47.5°	137.4	143.9	148.0	154.7	163.4	173.4	185.1	200.2	224.1	247.1	276.6
50°	126.2	132.9	138.8	144.8	152.5	162.2	172.0	186.5	205.8	229.9	257.4
52.5°	116.6	122.5	128.2	134.3	141.9	150.7	160.0	172.8	189.2	211.4	238.2
55°	103.5	107.2	113.1	119.1	125.8	134.3	143.2	153.9	168.1	186.7	208.4
57.5°	90.1	94.3	98.9	105.0	111.8	118.3	126.4	136.1	147.2	164.1	182.6
60°	82.5	85.7	89.5	95.8	102.1	108.0	115.7	123.8	134.3	148.9	164.7
62.5°	74.0	77.1	80.6	86.1	92.2	97.6	104.3	112.9	121.8	135.1	148.9
65°	59.9	64.4	67.9	72.7	77.8	83.5	88.7	95.6	103.5	114.0	126.4
67.5°	49.7	52.0	55.2	59.6	64.7	69.6	74.6	80.0	86.9	95.0	104.8
70°	45.2	46.0	46.5	50.8	55.7	60.5	65.2	70.3	76.2	82.8	91.3
72.5°	39.9	40.7	41.4	43.2	47.1	52.0	56.8	60.5	66.1	71.7	78.6
75°	31.6	32.8	33.4	34.4	35.8	39.1	43.5	47.2	50.5	54.7	60.2
77.5°	24.1	24.8	25.4	26.5	27.4	28.8	31.4	34.6	37.7	40.1	43.9
80°	19.1	19.3	20.1	20.4	21.7	22.6	23.9	26.6	29.6	30.6	33.3
82.5°	14.4	14.5	15.2	15.6	16.1	17.0	18.5	19.3	21.7	23.0	24.6
85°	7.9	7.7	8.3	8.3	8.7	9.1	9.5	10.5	11.1	12.8	13.2
87.5°	10.4	10.5	9.5	8.4	7.3	6.5	5.8	5.4	5.0	4.9	4.9
90°	39.9	40.5	34.8	29.2	23.5	17.8	13.5	10.4	7.3	4.3	1.2
92.5°	36.8	36.7	35.4	34.1	32.7	31.4	29.6	27.4	25.1	22.8	20.6
95°	74.0	74.0	73.5	72.9	72.5	72.0	70.4	67.9	65.3	62.7	60.1
97.5°	124.4	124.4	123.4	122.4	121.5	120.5	118.9	116.6	114.4	112.1	109.9
100°	159.5	159.5	158.8	158.0	157.2	156.5	155.1	153.0	151.0	148.9	146.9
102.5°	197.7	197.5	196.5	195.6	194.6	193.6	192.3	190.6	189.0	187.3	185.7
105°	254.9	254.4	253.9	253.3	252.8	252.4	251.6	250.9	250.1	249.3	248.6
107.5°	317.3	317.0	317.0	317.0	317.0	317.0	316.5	315.3	314.2	313.1	311.9
110°	359.6	359.6	359.6	359.6	359.6	359.6	358.8	357.3	355.7	354.2	352.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	402.4	403.1	403.2	403.5	403.7	403.9	403.2	401.7	400.1	398.6	397.1
115°	466.9	467.1	467.6	468.1	468.7	469.1	468.7	467.1	465.6	464.0	462.5
117.5°	529.9	530.5	531.9	533.3	534.8	536.3	535.9	533.9	531.8	529.8	527.7
120°	571.1	571.1	573.2	575.3	577.4	579.4	579.4	577.4	575.3	573.2	571.1
122.5°	614.9	615.5	617.0	618.5	619.9	621.3	620.8	618.3	615.9	613.4	610.9
125°	679.1	679.8	680.6	681.4	682.2	683.0	682.2	679.8	677.5	675.2	672.9
127.5°	741.4	742.3	743.2	744.1	745.1	746.0	745.0	742.1	739.1	736.2	733.3
130°	783.4	783.9	784.4	785.0	785.5	786.0	784.5	781.2	777.9	774.5	771.2
132.5°	825.4	826.4	826.3	826.3	826.2	826.1	824.7	821.9	819.2	816.5	813.8
135°	885.4	885.6	885.2	884.7	884.1	883.6	882.0	879.1	876.3	873.4	870.7
137.5°	943.8	944.0	943.3	942.6	941.9	941.3	939.8	937.5	935.1	932.8	930.5
140°	982.8	982.8	981.5	980.3	978.9	977.7	975.9	973.6	971.3	968.9	966.6
142.5°	1018.2	1018.0	1017.1	1016.2	1015.3	1014.4	1012.9	1010.6	1008.3	1005.9	1003.6
145°	1072.1	1071.8	1070.3	1068.7	1067.2	1065.7	1064.0	1062.2	1060.4	1058.6	1056.8
147.5°	1119.1	1118.6	1117.5	1116.5	1115.4	1114.5	1112.9	1110.7	1108.5	1106.3	1104.2
150°	1148.9	1148.2	1147.1	1146.1	1145.0	1144.1	1142.7	1141.2	1139.7	1138.1	1136.6
152.5°	1178.8	1177.8	1176.5	1175.3	1174.0	1172.8	1171.4	1169.8	1168.3	1166.8	1165.3
155°	1216.5	1215.2	1214.4	1213.6	1212.9	1212.1	1211.4	1210.6	1209.8	1209.1	1208.3
157.5°	1251.2	1249.5	1248.9	1248.5	1248.0	1247.6	1247.1	1246.6	1246.1	1245.5	1245.0
160°	1272.2	1270.7	1270.4	1270.2	1269.9	1269.7	1269.3	1268.8	1268.3	1267.7	1267.2
162.5°	1290.9	1289.2	1289.0	1288.7	1288.4	1288.2	1288.0	1287.9	1287.8	1287.7	1287.5
165°	1315.3	1313.5	1313.5	1313.5	1313.5	1313.5	1313.6	1313.8	1314.1	1314.4	1314.6
167.5°	1335.4	1333.6	1333.6	1333.7	1333.7	1333.8	1334.2	1335.0	1335.8	1336.5	1337.3
170°	1346.5	1344.7	1345.0	1345.2	1345.5	1345.8	1346.2	1347.0	1347.8	1348.5	1349.3
172.5°	1354.9	1353.0	1353.3	1353.5	1353.8	1354.1	1354.6	1355.3	1356.1	1356.9	1357.6
175°	1363.9	1362.0	1362.5	1363.1	1363.6	1364.1	1364.8	1365.5	1366.3	1367.1	1367.8
177.5°	1368.6	1367.3	1367.8	1368.2	1368.6	1369.0	1369.5	1370.1	1370.7	1371.4	1372.0
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	586.4	586.8	590.0	591.6	594.4	595.6	596.9	596.6	596.6	597.2	601.7
5°	587.6	591.7	597.7	603.6	609.3	614.1	617.4	620.6	621.9	627.7	632.9
7.5°	585.5	593.0	603.0	612.0	622.7	631.1	638.0	644.4	648.6	657.2	665.9
10°	582.7	593.3	604.6	616.2	631.0	642.1	653.4	662.2	664.9	677.7	685.0
12.5°	577.2	591.3	605.7	620.7	635.2	650.5	663.0	671.7	681.7	693.1	706.6
15°	569.0	585.1	604.0	623.2	643.9	662.5	675.9	691.1	702.0	714.6	726.4
17.5°	557.1	578.0	601.9	624.2	648.1	668.1	686.5	701.1	708.7	716.0	717.6
20°	547.7	570.2	598.3	624.6	648.5	671.6	689.9	702.0	704.1	704.3	693.6
22.5°	537.5	562.9	592.4	619.3	647.9	673.6	687.8	692.9	684.9	671.2	650.4
25°	518.7	548.1	582.4	613.1	644.4	668.6	673.5	664.4	636.2	606.6	569.2
27.5°	498.4	531.5	568.1	602.4	635.6	650.7	640.2	607.3	556.6	512.5	459.1
30°	483.5	520.6	556.6	594.9	625.7	632.1	608.1	559.6	500.5	434.1	380.8
32.5°	466.5	505.3	544.9	584.5	610.3	604.0	564.2	504.5	435.2	369.9	319.6
35°	442.2	482.2	525.0	564.7	581.1	553.8	494.2	416.6	345.7	284.8	250.1
37.5°	414.1	457.8	502.2	538.7	537.5	492.0	410.8	330.7	271.2	235.1	210.4
40°	394.1	438.4	486.3	517.1	504.0	444.6	356.7	281.2	237.6	208.8	190.8
42.5°	375.1	419.4	467.1	491.5	468.6	395.7	308.1	248.9	212.9	190.6	175.9
45°	342.5	389.3	433.5	447.0	406.1	325.7	249.1	206.2	182.3	165.7	155.6
47.5°	310.7	356.8	397.1	397.3	342.0	264.1	210.2	178.4	158.0	145.2	137.9
50°	291.2	335.0	368.8	363.6	300.8	235.0	188.0	160.6	143.7	133.7	126.0
52.5°	269.4	311.8	341.2	326.2	265.9	206.8	168.0	145.1	131.0	122.3	115.5
55°	237.6	275.3	296.0	273.2	217.0	172.0	142.0	123.9	113.4	106.1	100.2
57.5°	206.3	237.5	250.4	224.0	178.7	142.6	120.1	106.6	96.1	90.9	87.8
60°	186.7	213.3	222.4	193.2	155.3	124.8	106.4	93.8	86.1	82.7	79.6
62.5°	167.5	189.1	192.9	166.2	135.5	109.2	93.4	82.8	77.7	74.4	71.5
65°	138.9	154.5	152.8	131.3	107.2	86.7	75.2	68.7	64.8	60.2	55.1
67.5°	114.4	123.9	118.2	102.1	81.8	67.4	59.8	54.9	50.1	45.7	44.6
70°	98.8	104.3	98.3	83.5	67.1	56.5	50.5	44.6	41.7	40.8	38.9
72.5°	83.9	85.9	79.3	66.6	54.6	46.8	40.8	37.6	36.0	35.2	34.1
75°	63.0	61.6	55.9	46.0	37.9	32.6	30.8	29.6	28.5	27.7	27.1
77.5°	44.2	42.2	37.1	30.6	26.4	23.9	22.7	22.1	21.7	21.2	20.6
80°	33.3	31.8	26.8	21.8	20.1	18.8	18.2	17.4	17.4	17.0	16.4
82.5°	24.3	22.7	18.3	16.1	15.1	14.3	13.8	13.4	13.2	13.3	12.8
85°	12.8	10.3	9.1	8.7	8.1	7.7	7.9	7.5	7.5	7.5	7.3
87.5°	4.7	4.5	5.0	5.4	6.5	7.6	8.6	9.7	11.0	10.8	10.8
90°	4.3	7.3	10.4	13.5	17.8	23.5	29.2	34.8	40.5	39.9	39.4
92.5°	22.8	25.1	27.4	29.6	31.4	32.7	34.1	35.4	36.7	36.8	37.0
95°	62.7	65.3	67.9	70.4	72.0	72.5	72.9	73.5	74.0	74.0	74.0
97.5°	112.1	114.4	116.6	118.9	120.5	121.5	122.4	123.4	124.4	124.4	124.4
100°	148.9	151.0	153.0	155.1	156.5	157.2	158.0	158.8	159.5	159.5	159.5
102.5°	187.3	189.0	190.6	192.3	193.6	194.6	195.6	196.5	197.5	197.7	197.9
105°	249.3	250.1	250.9	251.6	252.4	252.8	253.3	253.9	254.4	254.9	255.4
107.5°	313.1	314.2	315.3	316.5	317.0	317.0	317.0	317.0	317.0	317.3	317.4
110°	354.2	355.7	357.3	358.8	359.6	359.6	359.6	359.6	359.6	359.6	359.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	398.6	400.1	401.7	403.2	403.9	403.7	403.5	403.2	403.1	402.4	401.8
115°	464.0	465.6	467.1	468.7	469.1	468.7	468.1	467.6	467.1	466.9	466.6
117.5°	529.8	531.8	533.9	535.9	536.3	534.8	533.3	531.9	530.5	529.9	529.2
120°	573.2	575.3	577.4	579.4	579.4	577.4	575.3	573.2	571.1	571.1	571.1
122.5°	613.4	615.9	618.3	620.8	621.3	619.9	618.5	617.0	615.5	614.9	614.4
125°	675.2	677.5	679.8	682.2	683.0	682.2	681.4	680.6	679.8	679.1	678.3
127.5°	736.2	739.1	742.1	745.0	746.0	745.1	744.1	743.2	742.3	741.4	740.5
130°	774.5	777.9	781.2	784.5	786.0	785.5	785.0	784.4	783.9	783.4	782.9
132.5°	816.5	819.2	821.9	824.7	826.1	826.2	826.3	826.3	826.4	825.4	824.2
135°	873.4	876.3	879.1	882.0	883.6	884.1	884.7	885.2	885.6	885.4	885.2
137.5°	932.8	935.1	937.5	939.8	941.3	941.9	942.6	943.3	944.0	943.8	943.5
140°	968.9	971.3	973.6	975.9	977.7	978.9	980.3	981.5	982.8	982.8	982.8
142.5°	1005.9	1008.3	1010.6	1012.9	1014.4	1015.3	1016.2	1017.1	1018.0	1018.2	1018.3
145°	1058.6	1060.4	1062.2	1064.0	1065.7	1067.2	1068.7	1070.3	1071.8	1072.1	1072.4
147.5°	1106.3	1108.5	1110.7	1112.9	1114.5	1115.4	1116.5	1117.5	1118.6	1119.1	1119.6
150°	1138.1	1139.7	1141.2	1142.7	1144.1	1145.0	1146.1	1147.1	1148.2	1148.9	1149.7
152.5°	1166.8	1168.3	1169.8	1171.4	1172.8	1174.0	1175.3	1176.5	1177.8	1178.8	1179.7
155°	1209.1	1209.8	1210.6	1211.4	1212.1	1212.9	1213.6	1214.4	1215.2	1216.5	1217.8
157.5°	1245.5	1246.1	1246.6	1247.1	1247.6	1248.0	1248.5	1248.9	1249.5	1251.2	1252.9
160°	1267.7	1268.3	1268.8	1269.3	1269.7	1269.9	1270.2	1270.4	1270.7	1272.2	1273.8
162.5°	1287.7	1287.8	1287.9	1288.0	1288.2	1288.4	1288.7	1289.0	1289.2	1290.9	1292.7
165°	1314.4	1314.1	1313.8	1313.6	1313.5	1313.5	1313.5	1313.5	1313.5	1315.3	1317.1
167.5°	1336.5	1335.8	1335.0	1334.2	1333.8	1333.7	1333.7	1333.6	1333.6	1335.4	1337.2
170°	1348.5	1347.8	1347.0	1346.2	1345.8	1345.5	1345.2	1345.0	1344.7	1346.5	1348.3
172.5°	1356.9	1356.1	1355.3	1354.6	1354.1	1353.8	1353.5	1353.3	1353.0	1354.9	1356.6
175°	1367.1	1366.3	1365.5	1364.8	1364.1	1363.6	1363.1	1362.5	1362.0	1363.9	1365.7
177.5°	1371.4	1370.7	1370.1	1369.5	1369.0	1368.6	1368.2	1367.8	1367.3	1368.6	1369.8
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	603.3	605.5	606.5	606.5	607.6	607.1	606.6
5°	638.0	641.9	642.7	646.3	649.0	648.2	648.5
7.5°	672.5	678.7	684.8	687.6	688.0	689.6	690.3
10°	693.8	698.8	708.3	706.9	714.0	718.1	711.4
12.5°	714.2	721.0	727.6	729.4	733.4	734.8	732.1
15°	732.6	736.3	736.6	735.7	736.9	735.8	732.0
17.5°	715.4	709.4	697.5	691.8	687.3	680.6	678.0
20°	686.9	669.4	649.2	641.1	631.6	613.0	617.4
22.5°	625.3	605.5	585.1	561.5	550.2	532.5	531.5
25°	529.5	495.3	457.5	431.2	415.8	398.2	390.5
27.5°	411.7	368.5	337.7	322.1	307.8	293.9	293.3
30°	334.2	301.8	277.9	264.6	255.8	249.9	251.2
32.5°	281.7	259.5	243.3	232.3	225.9	221.4	221.3
35°	230.3	215.1	204.7	200.1	195.5	192.3	192.4
37.5°	197.1	188.0	182.2	177.1	174.2	172.5	171.7
40°	180.0	172.5	168.1	165.1	162.6	160.4	160.0
42.5°	166.7	160.4	156.0	153.6	151.3	149.7	149.4
45°	147.8	142.8	138.8	136.1	135.1	133.7	133.7
47.5°	131.5	126.5	123.4	121.7	120.0	119.0	119.0
50°	120.6	116.6	113.9	112.8	111.4	110.8	110.6
52.5°	110.7	107.7	105.8	105.0	104.4	103.7	103.8
55°	97.2	95.6	94.8	94.2	93.2	91.9	92.7
57.5°	86.0	84.5	82.4	80.4	79.5	78.6	79.0
60°	78.0	75.2	72.3	70.1	69.5	67.7	67.7
62.5°	67.9	63.9	60.5	59.2	58.6	57.8	57.6
65°	52.3	50.6	49.8	49.0	48.6	48.6	48.2
67.5°	43.3	42.6	41.7	41.6	41.2	41.0	40.9
70°	38.3	37.5	37.1	36.8	36.5	36.6	36.0
72.5°	33.4	32.8	32.7	32.2	31.9	31.9	31.5
75°	26.3	26.3	26.1	25.9	25.5	25.3	25.5
77.5°	20.2	20.3	20.0	19.9	19.9	19.9	19.7
80°	16.2	16.4	16.2	16.0	15.8	16.0	15.8
82.5°	12.8	12.5	12.5	12.4	12.4	12.3	12.2
85°	7.3	7.5	7.3	7.1	7.1	7.1	7.3
87.5°	10.5	10.4	10.4	10.4	10.5	10.5	10.4
90°	39.0	38.4	38.3	38.5	38.8	39.1	39.3
92.5°	37.1	37.2	37.3	37.3	37.4	37.5	37.5
95°	74.0	74.0	73.7	73.2	72.7	72.2	71.7
97.5°	124.4	124.4	124.4	124.3	124.3	124.2	124.2
100°	159.5	159.5	159.4	159.2	158.9	158.6	158.4
102.5°	198.1	198.3	198.3	198.0	197.8	197.5	197.2
105°	255.9	256.5	256.7	256.7	256.7	256.7	256.7
107.5°	317.6	317.9	317.4	316.2	315.0	313.8	312.6
110°	359.6	359.6	359.2	358.5	357.7	356.9	356.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	401.2	400.6	400.0	399.4	398.9	398.3	397.7
115°	466.4	466.1	465.6	464.8	464.0	463.2	462.5
117.5°	528.6	528.0	527.4	526.6	525.8	525.0	524.2
120°	571.1	571.1	570.8	570.0	569.3	568.5	567.8
122.5°	613.8	613.1	612.5	612.0	611.4	610.8	610.3
125°	677.5	676.8	676.3	676.0	675.7	675.5	675.2
127.5°	739.5	738.6	737.7	736.9	736.1	735.3	734.4
130°	782.4	781.9	781.1	780.1	779.1	778.0	776.9
132.5°	823.0	822.0	821.0	820.2	819.3	818.5	817.7
135°	884.9	884.7	884.1	883.3	882.6	881.8	881.0
137.5°	943.3	943.2	942.5	941.5	940.5	939.4	938.4
140°	982.8	982.8	982.3	981.2	980.3	979.2	978.2
142.5°	1018.6	1018.8	1018.3	1017.4	1016.3	1015.3	1014.2
145°	1072.6	1072.8	1072.5	1071.5	1070.4	1069.4	1068.4
147.5°	1120.3	1120.8	1120.6	1119.6	1118.7	1117.7	1116.7
150°	1150.5	1151.2	1151.2	1150.5	1149.7	1148.9	1148.2
152.5°	1180.6	1181.6	1181.6	1180.6	1179.7	1178.8	1177.8
155°	1219.1	1220.3	1220.6	1219.9	1219.1	1218.3	1217.5
157.5°	1254.6	1256.4	1256.7	1255.4	1254.2	1252.9	1251.7
160°	1275.3	1276.8	1277.1	1276.1	1275.1	1274.1	1273.0
162.5°	1294.4	1296.2	1296.5	1295.2	1294.0	1292.7	1291.6
165°	1318.8	1320.7	1320.9	1319.6	1318.4	1317.1	1315.8
167.5°	1339.0	1340.8	1341.0	1339.7	1338.4	1337.0	1335.7
170°	1350.1	1351.9	1352.0	1350.5	1349.0	1347.4	1345.9
172.5°	1358.4	1360.2	1360.3	1358.8	1357.3	1355.8	1354.2
175°	1367.4	1369.2	1369.4	1367.8	1366.3	1364.8	1363.2
177.5°	1371.1	1372.3	1372.3	1371.1	1369.8	1368.6	1367.3
180°	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1	1370.1

(END OF REPORT)