

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: P331471-840

Luminaire Tested: **S122DIW-S290D710U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331471-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S290D710U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4182.5 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

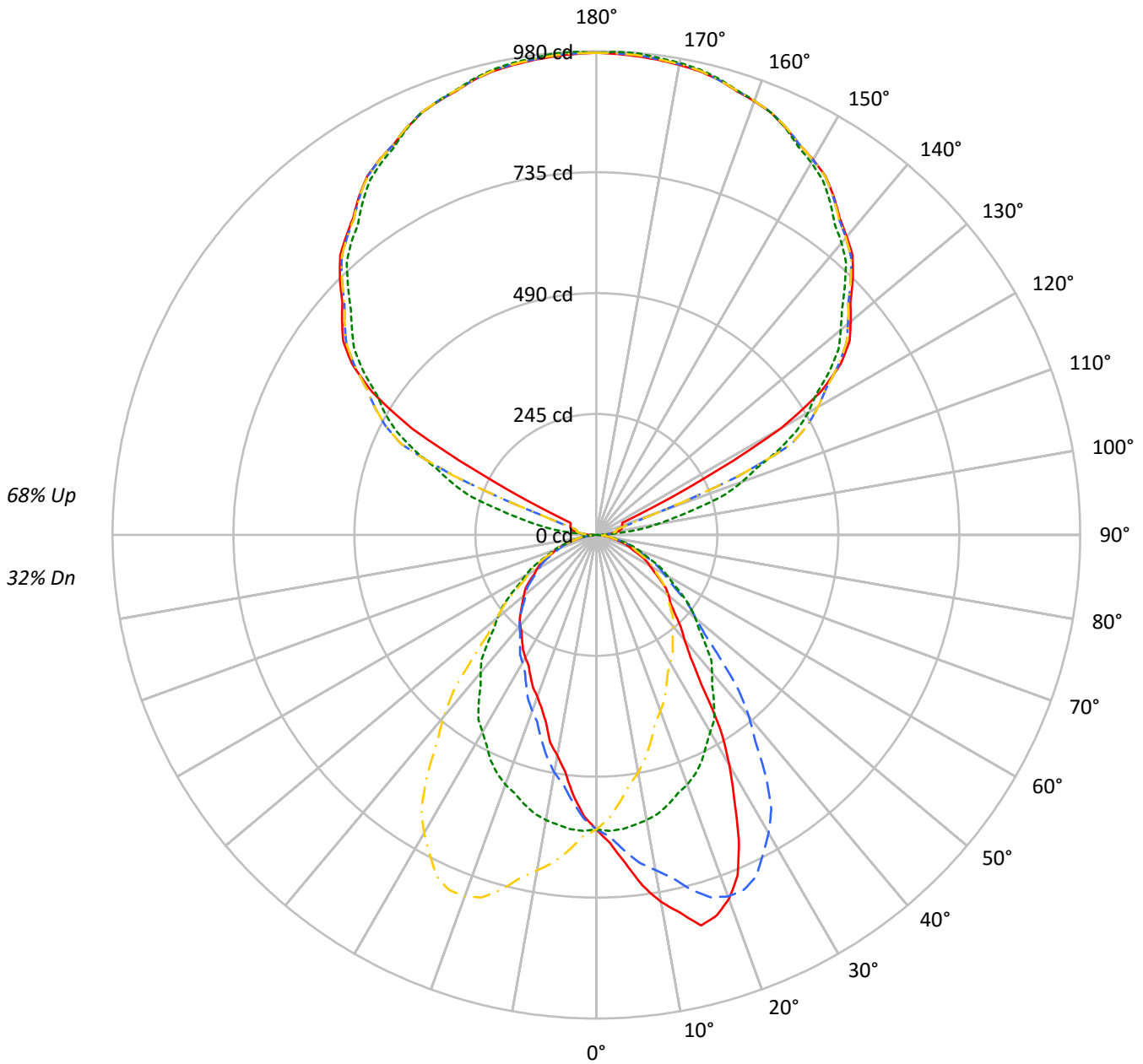
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	34	34	27
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	63	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	62	54	48	64	56	49	44	45	40	37	35	31	29	25	23	22	17
5	66	55	47	41	59	50	43	38	40	35	32	31	28	25	23	21	19	15
6	61	49	42	36	54	45	38	33	36	31	28	28	25	22	21	19	17	14
7	56	44	37	32	50	40	34	29	33	28	24	26	22	20	19	17	15	12
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	17	15	14	11
9	48	37	30	25	44	34	27	23	27	23	19	22	18	16	16	14	12	10
10	45	34	27	22	41	31	25	21	25	21	17	20	17	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9637	9637	9637	9637
5°	10804	9700	8596	9700
10°	12381	9621	7438	9621
15°	13697	9444	6572	9444
20°	13490	9256	5991	9256
25°	12162	9002	5624	9002
30°	10051	8600	5354	8600
35°	7324	8180	5164	8180
40°	5851	7685	5056	7685
45°	5112	7108	4914	7108
50°	4808	6551	4818	6551
55°	4428	5987	4687	5987
60°	4059	5383	4492	5383
65°	3698	4844	4294	4844
70°	3356	4319	4008	4319
75°	2982	3737	3550	3737
80°	2566	3087	2854	3087
85°	2297	2297	1704	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.4
10°-20°	165.3	4.0
20°-30°	239.9	5.7
30°-40°	253.1	6.1
40°-50°	224.1	5.4
50°-60°	178.8	4.3
60°-70°	121.6	2.9
70°-80°	62.3	1.5
80°-90°	17.4	0.4
90°-100°	32.6	0.8
100°-110°	119.5	2.9
110°-120°	319.5	7.6
120°-130°	527.3	12.6
130°-140°	560.8	13.4
140°-150°	521.3	12.5
150°-160°	419.1	10.0
160°-170°	270.1	6.5
170°-180°	93.0	2.2
0°-30°	462.0	11.0
0°-40°	715.1	17.1
0°-60°	1118.0	26.7
0°-90°	1319.3	31.5
90°-120°	471.6	11.3
90°-150°	2081.0	49.8
90°-180°	2863.0	68.5
0°-180°	4182.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	597	597	597	597	597	
5°	667	598	530	598	667	67
15°	819	565	393	565	819	226
25°	683	505	316	505	683	309
35°	372	415	262	415	372	242
45°	224	311	215	311	224	176
55°	157	213	166	213	157	141
65°	97	127	112	127	97	96
75°	48	60	57	60	48	51
85°	12	12	9	12	12	14
90°	19	1	19	1	19	9
95°	30	46	30	46	30	28
105°	54	215	54	215	54	56
115°	58	406	58	406	58	145
125°	604	575	604	575	604	523
135°	735	711	735	711	735	566
145°	838	825	838	825	838	524
155°	909	908	909	908	909	419
165°	955	957	955	957	955	270
175°	974	979	974	979	974	93
180°	977	977	977	977	977	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	624.4	624.6	625.0	622.1	621.7	621.7	619.1	616.9	614.3	610.9	611.3
5°	666.6	669.1	670.0	667.3	663.2	662.8	658.8	652.5	646.4	641.7	638.2
7.5°	717.0	718.0	715.8	712.2	709.1	703.6	696.3	689.2	679.2	670.1	663.4
10°	755.2	756.6	752.7	747.4	743.1	736.6	726.1	715.3	702.3	689.6	679.5
12.5°	784.2	787.6	782.5	781.9	774.5	765.6	753.1	747.6	729.2	711.7	700.7
15°	819.4	819.2	819.7	815.3	809.8	808.4	795.2	780.6	754.8	744.4	726.5
17.5°	809.2	812.7	814.4	814.3	814.2	813.2	809.0	799.9	786.9	770.1	749.5
20°	785.1	789.6	790.3	795.6	798.6	802.4	804.1	801.5	793.6	779.5	761.6
22.5°	747.6	748.9	751.0	759.2	765.7	775.5	780.5	789.1	786.0	779.1	764.2
25°	682.7	680.4	688.4	692.6	707.5	723.1	734.4	746.7	757.7	764.4	760.0
27.5°	604.8	601.4	613.4	624.4	636.4	653.4	670.9	691.6	708.7	730.3	737.7
30°	539.1	541.2	552.6	564.3	582.7	606.5	626.3	648.9	673.6	697.6	714.4
32.5°	468.3	476.2	483.4	501.4	517.6	544.1	573.1	601.5	632.1	659.4	685.4
35°	371.6	380.8	390.9	403.9	426.7	453.0	481.3	519.6	561.4	598.7	629.4
37.5°	312.9	311.3	317.1	326.6	345.0	366.3	398.8	436.6	485.7	529.7	573.1
40°	277.6	276.7	280.7	289.5	303.5	319.1	347.6	380.8	426.5	480.2	531.8
42.5°	253.4	253.9	256.2	262.4	272.0	284.8	306.1	334.4	376.2	426.8	482.2
45°	223.9	225.5	228.0	231.1	236.5	247.1	259.0	279.2	312.3	354.5	409.0
47.5°	202.7	202.8	205.3	207.9	211.2	217.1	226.9	239.5	262.9	297.2	344.2
50°	191.4	189.8	191.6	193.6	197.0	201.2	207.6	219.5	235.1	262.9	302.2
52.5°	177.3	177.4	179.0	179.9	182.9	187.0	192.9	201.2	215.3	237.0	269.2
55°	157.3	158.5	159.5	160.8	163.6	166.5	171.2	176.6	187.6	203.9	227.8
57.5°	138.6	139.0	139.9	142.5	144.2	146.9	151.3	156.3	163.5	175.5	193.5
60°	125.7	125.7	127.5	128.7	131.0	133.7	137.1	142.0	148.5	158.2	172.8
62.5°	114.0	113.8	114.5	116.4	118.2	120.7	124.1	128.3	134.3	143.1	154.9
65°	96.8	96.3	97.8	98.2	100.0	102.5	105.3	109.7	114.5	120.9	131.5
67.5°	80.3	80.9	81.6	82.4	83.4	86.1	88.0	91.0	95.1	100.5	107.6
70°	71.1	71.1	71.1	71.8	73.2	74.5	76.3	78.9	82.8	87.4	93.8
72.5°	60.8	61.6	62.3	61.9	63.6	64.4	66.7	68.1	71.8	74.7	80.4
75°	47.8	47.8	47.8	48.9	49.6	50.2	51.6	53.0	54.8	58.5	61.5
77.5°	35.6	35.5	35.7	36.1	36.8	37.6	38.0	39.2	40.9	42.6	45.1
80°	27.6	28.0	28.2	28.7	28.7	29.1	29.4	31.0	32.1	33.2	34.8
82.5°	21.3	21.4	21.4	21.5	21.7	22.0	22.6	23.1	23.5	24.4	25.7
85°	12.4	12.1	12.1	12.6	12.4	12.4	12.8	13.3	13.3	13.5	14.2
87.5°	8.6	8.5	8.7	8.4	8.4	8.4	8.3	7.9	8.0	8.0	7.9
90°	19.1	18.8	18.5	18.2	17.9	17.3	16.5	15.8	14.9	14.1	12.9
92.5°	19.1	18.9	18.7	18.5	18.4	18.1	17.7	17.3	16.8	16.4	15.8
95°	30.4	30.6	30.7	30.9	31.0	30.7	29.9	29.2	28.4	27.6	26.5
97.5°	40.6	40.4	40.2	40.0	39.8	39.4	38.8	38.2	37.6	36.9	34.3
100°	47.4	47.1	46.8	46.5	46.2	45.3	44.0	42.8	41.5	40.3	37.7
102.5°	50.8	50.3	49.9	49.5	49.0	48.0	46.4	44.7	43.0	41.4	63.7
105°	53.7	53.1	52.5	51.8	51.2	50.0	48.3	46.6	44.8	43.1	86.0
107.5°	55.2	54.6	54.0	53.4	52.8	53.3	55.1	56.9	58.6	60.4	111.8
110°	55.8	55.2	54.6	53.9	53.3	60.9	76.5	92.3	108.1	123.7	169.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	56.5	55.9	55.4	54.9	54.4	82.8	140.2	197.4	254.8	312.0	323.3
115°	58.0	69.3	80.6	91.9	103.2	145.2	217.9	290.7	363.5	436.2	432.2
117.5°	236.7	273.9	311.0	348.2	385.4	412.7	430.3	448.0	465.5	483.1	480.4
120°	431.2	452.4	473.6	494.8	516.0	525.7	523.8	522.0	520.1	518.2	515.3
122.5°	538.2	542.3	546.3	550.5	554.6	556.1	554.9	553.8	552.7	551.6	548.5
125°	604.4	604.0	603.5	603.0	602.6	601.8	600.7	599.6	598.4	597.3	594.4
127.5°	646.3	646.2	646.1	646.0	645.9	645.1	643.5	641.9	640.3	638.6	636.4
130°	672.4	672.5	672.7	672.8	673.0	672.2	670.4	668.7	667.0	665.3	663.5
132.5°	697.8	697.9	698.1	698.2	698.4	697.7	696.3	694.8	693.3	691.9	690.1
135°	734.6	734.9	735.2	735.5	735.8	735.2	733.6	732.1	730.4	728.9	727.5
137.5°	768.0	768.6	769.1	769.6	770.2	769.7	768.1	766.6	765.1	763.6	761.9
140°	789.0	789.7	790.5	791.3	792.1	791.8	790.4	789.0	787.6	786.2	784.4
142.5°	809.3	810.1	810.9	811.7	812.4	812.2	810.9	809.6	808.4	807.1	805.1
145°	837.8	838.5	839.3	840.1	840.9	840.7	839.6	838.5	837.5	836.4	833.6
147.5°	862.7	863.4	864.1	864.7	865.5	865.4	864.5	863.7	862.9	862.0	859.4
150°	878.1	878.8	879.6	880.4	881.2	881.1	880.2	879.2	878.3	877.4	874.8
152.5°	891.0	892.1	893.1	894.1	895.2	895.2	894.3	893.3	892.4	891.5	889.1
155°	909.2	910.4	911.7	912.9	914.1	914.3	913.4	912.4	911.5	910.6	908.7
157.5°	925.6	927.0	928.2	929.4	930.6	930.7	929.6	928.6	927.5	926.3	925.0
160°	935.3	936.4	937.5	938.6	939.7	939.8	938.9	937.9	937.0	936.0	935.0
162.5°	943.2	944.5	945.9	947.3	948.7	948.8	947.7	946.6	945.5	944.5	943.7
165°	955.1	956.2	957.4	958.4	959.5	959.5	958.4	957.4	956.2	955.1	954.6
167.5°	962.6	964.0	965.4	966.8	968.3	968.4	967.3	966.2	965.1	964.0	963.6
170°	967.1	968.6	970.0	971.4	972.8	972.9	971.8	970.8	969.7	968.6	968.3
172.5°	970.5	971.9	973.3	974.7	976.1	976.3	975.2	974.1	973.0	971.9	971.6
175°	973.5	975.0	976.6	978.2	979.8	980.0	978.9	977.9	976.7	975.6	975.3
177.5°	975.3	976.4	977.5	978.8	979.9	980.0	979.1	978.3	977.3	976.4	976.3
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	612.5	611.1	610.2	606.8	603.9	601.0	600.1	600.4	596.3	592.5	590.9
5°	636.4	631.8	627.4	621.3	613.9	605.8	601.8	598.5	590.5	581.8	576.7
7.5°	657.7	651.2	642.8	631.2	620.5	607.8	599.8	592.7	581.0	568.7	561.1
10°	670.8	661.9	651.1	636.8	623.8	608.3	597.6	586.8	573.1	558.4	549.2
12.5°	682.0	669.9	659.3	641.1	625.6	606.3	593.6	578.3	563.9	546.4	537.5
15°	708.6	686.4	666.2	645.5	626.5	599.7	585.4	565.0	546.0	524.4	514.1
17.5°	729.2	704.2	672.5	646.2	624.0	594.2	573.4	549.0	526.4	501.8	487.8
20°	740.9	712.3	678.1	646.9	620.4	586.3	563.6	538.7	512.3	484.5	469.4
22.5°	747.9	717.8	684.0	644.2	613.0	580.0	551.4	523.9	497.3	467.3	451.4
25°	750.1	722.7	686.8	641.9	603.8	566.4	532.0	505.3	473.0	445.0	421.9
27.5°	739.2	719.5	685.1	637.5	593.2	549.5	511.1	481.0	446.9	416.5	393.1
30°	725.8	714.4	680.9	633.2	584.7	537.8	495.5	461.3	427.4	396.7	372.7
32.5°	705.1	702.7	673.2	626.9	575.7	522.9	479.2	444.6	407.0	376.8	354.1
35°	664.4	675.4	656.8	613.0	558.9	501.7	454.4	415.0	376.0	347.1	325.8
37.5°	609.8	637.1	632.3	592.6	535.9	478.7	426.5	385.3	348.1	318.9	298.0
40°	572.1	607.0	612.1	576.9	519.9	460.9	405.6	364.6	328.3	301.6	280.5
42.5°	531.8	572.5	586.3	558.3	502.2	442.1	386.9	344.4	308.4	282.6	263.9
45°	464.1	518.0	543.0	526.9	472.8	411.3	354.5	311.3	278.7	254.4	239.9
47.5°	400.8	459.7	493.3	487.7	440.1	379.2	323.0	281.6	249.8	230.5	217.5
50°	356.1	416.6	457.2	459.1	416.6	356.3	299.8	260.8	231.7	213.6	203.0
52.5°	317.1	375.0	419.2	429.0	390.3	332.4	279.1	240.2	214.6	197.9	188.5
55°	266.3	315.2	364.3	382.2	351.2	296.2	246.8	212.7	188.5	177.1	168.8
57.5°	221.5	262.2	307.5	327.3	308.2	261.1	214.8	185.1	165.6	155.5	149.2
60°	197.7	229.8	270.2	293.9	277.3	235.4	195.0	166.7	150.7	141.8	135.8
62.5°	175.7	204.2	238.3	259.9	251.0	211.4	175.2	150.3	136.4	128.1	123.7
65°	145.0	167.4	193.9	213.8	207.8	177.8	148.1	126.8	115.8	109.2	105.7
67.5°	119.4	135.6	153.9	171.4	166.6	145.3	121.6	104.9	96.7	91.0	88.9
70°	103.2	115.6	131.9	145.9	142.0	124.6	105.7	91.5	84.4	79.6	77.6
72.5°	87.9	98.0	110.5	121.9	119.3	104.7	89.1	78.4	72.8	68.4	66.8
75°	66.3	74.1	81.7	89.3	88.6	77.4	68.2	59.9	55.5	52.1	51.4
77.5°	49.0	53.3	58.5	62.9	61.7	55.2	48.1	43.3	40.2	37.9	37.5
80°	37.4	39.9	43.6	46.8	45.2	42.4	36.7	33.2	31.0	28.7	27.8
82.5°	27.2	29.6	31.8	33.6	32.3	29.8	26.3	23.9	22.5	21.0	20.6
85°	14.2	15.6	16.6	17.0	16.6	14.9	13.3	12.4	11.2	10.5	10.3
87.5°	7.9	7.6	7.4	7.4	6.5	6.2	5.0	4.1	4.3	4.5	4.4
90°	11.6	10.4	9.1	7.6	5.9	4.1	2.4	0.7	2.4	4.1	5.9
92.5°	15.1	14.5	13.9	13.6	13.8	13.9	14.1	14.2	14.1	13.9	13.8
95°	25.3	24.2	23.1	25.2	30.4	35.5	40.8	45.9	40.8	35.5	30.4
97.5°	31.8	29.3	26.8	32.7	47.4	62.0	76.5	91.2	76.5	62.0	47.4
100°	34.9	32.3	29.6	39.1	60.6	82.1	103.6	125.1	103.6	82.1	60.6
102.5°	86.1	108.5	130.8	144.2	148.8	153.3	157.9	162.5	157.9	153.3	148.8
105°	128.9	171.8	214.7	233.8	229.0	224.4	219.6	214.9	219.6	224.4	229.0
107.5°	163.3	214.7	266.1	289.9	286.1	282.4	278.5	274.7	278.5	282.4	286.1
110°	214.5	259.9	305.3	326.4	323.1	319.8	316.5	313.2	316.5	319.8	323.1



TEST NUMBER: P331471-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	334.5	345.7	356.9	361.0	358.1	355.3	352.3	349.4	352.3	355.3	358.1
115°	428.4	424.4	420.5	417.2	414.5	411.8	409.2	406.5	409.2	411.8	414.5
117.5°	477.8	475.0	472.3	469.5	466.5	463.5	460.5	457.6	460.5	463.5	466.5
120°	512.5	509.7	506.9	504.3	501.9	499.6	497.3	494.8	497.3	499.6	501.9
122.5°	545.4	542.3	539.3	536.4	534.0	531.5	529.1	526.5	529.1	531.5	534.0
125°	591.4	588.4	585.4	582.9	580.9	578.9	576.8	574.7	576.8	578.9	580.9
127.5°	634.2	632.0	629.8	627.5	625.2	623.0	620.7	618.4	620.7	623.0	625.2
130°	661.8	660.0	658.3	656.2	653.7	651.2	648.6	646.1	648.6	651.2	653.7
132.5°	688.3	686.6	684.9	683.0	680.9	678.7	676.6	674.5	676.6	678.7	680.9
135°	726.1	724.7	723.3	721.2	718.7	716.2	713.7	711.2	713.7	716.2	718.7
137.5°	760.3	758.7	757.1	755.4	753.7	751.9	750.1	748.4	750.1	751.9	753.7
140°	782.6	780.9	779.2	777.7	776.5	775.2	774.0	772.7	774.0	775.2	776.5
142.5°	803.1	801.1	799.1	797.6	796.5	795.4	794.2	793.0	794.2	795.4	796.5
145°	831.0	828.3	825.7	824.4	824.6	824.8	824.9	825.1	824.9	824.8	824.6
147.5°	856.8	854.1	851.5	850.5	851.1	851.7	852.3	852.8	852.3	851.7	851.1
150°	872.3	869.8	867.3	866.6	867.7	868.8	869.9	871.0	869.9	868.8	867.7
152.5°	886.7	884.3	881.9	881.3	882.5	883.8	885.0	886.3	885.0	883.8	882.5
155°	906.8	904.9	903.0	902.8	904.2	905.6	907.1	908.5	907.1	905.6	904.2
157.5°	923.7	922.4	921.1	921.1	922.2	923.4	924.6	925.8	924.6	923.4	922.2
160°	934.1	933.2	932.2	932.2	933.2	934.1	935.0	936.0	935.0	934.1	933.2
162.5°	942.9	942.0	941.2	941.3	942.2	943.2	944.1	945.0	944.1	943.2	942.2
165°	954.1	953.7	953.2	953.4	954.4	955.3	956.2	957.3	956.2	955.3	954.4
167.5°	963.1	962.7	962.3	962.5	963.4	964.4	965.3	966.2	965.3	964.4	963.4
170°	968.0	967.6	967.2	967.6	968.6	969.5	970.4	971.4	970.4	969.5	968.6
172.5°	971.3	971.0	970.7	971.0	971.9	972.9	973.8	974.7	973.8	972.9	971.9
175°	975.0	974.6	974.3	974.7	975.8	976.9	978.1	979.2	978.1	976.9	975.8
177.5°	976.2	976.0	975.9	976.3	977.2	978.1	979.0	979.9	979.0	978.1	977.2
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331471-840

CATALOG NUMBER: S122DIW-S290D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	589.1	587.9	584.1	582.1	578.8	575.6	573.6	574.5	575.2	574.9	574.3
5°	572.1	567.7	561.1	555.4	551.3	543.7	540.5	538.9	537.5	535.9	534.3
7.5°	552.0	545.1	535.6	527.5	519.8	510.3	504.9	501.8	498.5	494.8	491.6
10°	537.8	528.1	518.0	506.5	497.4	488.9	481.3	476.3	471.6	467.3	464.1
12.5°	522.7	511.6	499.1	483.4	473.3	461.1	460.0	451.1	443.9	441.2	437.5
15°	498.8	483.1	467.3	448.7	440.7	429.7	422.8	415.9	409.7	405.4	404.2
17.5°	471.5	451.3	435.6	422.2	409.1	397.8	391.4	386.0	380.8	375.1	374.3
20°	450.8	433.3	416.2	404.5	390.9	379.4	371.6	366.2	361.7	358.3	355.4
22.5°	431.1	412.0	396.3	383.5	370.2	360.9	354.8	349.4	345.8	342.0	339.2
25°	399.6	384.8	367.5	353.0	342.0	336.1	331.0	326.5	324.2	321.6	318.4
27.5°	372.0	355.5	339.4	328.2	318.5	313.3	309.6	306.5	304.4	302.9	301.0
30°	352.6	335.9	323.3	312.3	304.2	298.9	296.6	294.8	292.3	291.3	290.4
32.5°	333.9	318.8	308.0	298.4	290.8	287.3	285.3	283.6	281.7	280.7	278.8
35°	307.4	294.8	284.3	278.9	272.8	269.7	268.2	265.9	264.1	263.2	262.9
37.5°	282.5	271.6	264.6	257.8	255.2	253.4	251.2	249.6	249.0	248.9	248.6
40°	266.3	257.4	251.2	245.7	244.6	241.8	239.9	238.6	238.6	238.8	238.6
42.5°	251.7	243.6	238.1	233.4	232.1	230.5	228.5	228.5	228.8	229.6	228.8
45°	229.4	223.7	219.7	217.5	215.0	213.4	213.1	213.8	214.0	214.3	215.0
47.5°	208.9	205.1	201.6	199.0	197.9	197.7	197.4	198.6	199.8	200.2	201.2
50°	196.8	192.5	189.5	187.8	186.9	186.5	186.9	188.3	189.2	190.4	191.1
52.5°	183.3	180.2	178.1	176.8	176.5	176.8	176.8	178.4	179.9	180.4	180.7
55°	164.5	162.2	161.8	159.7	160.6	160.4	161.5	162.4	163.8	165.2	165.4
57.5°	145.7	143.9	142.7	142.9	143.2	144.2	145.1	146.7	148.1	149.7	149.8
60°	133.3	132.4	131.7	131.7	132.1	133.5	134.6	136.2	137.1	138.1	138.8
62.5°	121.9	121.0	120.3	120.7	121.9	122.7	124.0	124.9	125.8	126.7	127.0
65°	103.9	103.5	104.1	104.6	104.8	105.9	107.6	108.3	109.2	109.7	111.3
67.5°	87.4	87.5	87.4	88.0	89.4	89.6	91.1	92.7	92.9	93.8	94.8
70°	76.1	76.6	77.1	77.6	78.7	79.2	80.3	81.0	81.9	82.6	83.3
72.5°	65.8	65.9	66.4	66.3	67.4	68.3	69.3	70.0	70.9	71.8	72.4
75°	50.7	50.7	51.2	51.4	52.5	53.7	53.4	53.9	54.8	55.7	56.2
77.5°	37.1	36.6	37.1	37.3	37.7	38.6	38.8	39.4	40.5	40.2	40.7
80°	28.2	27.6	28.2	28.5	28.5	29.6	29.6	30.1	30.7	30.1	30.7
82.5°	20.1	19.8	20.3	20.4	20.7	20.8	21.1	21.2	21.9	21.6	21.9
85°	10.1	9.9	10.1	9.9	10.1	10.3	10.3	10.1	10.1	10.5	9.9
87.5°	4.6	4.7	4.8	5.0	5.2	5.3	5.2	5.4	5.5	5.3	5.4
90°	7.6	9.1	10.4	11.6	12.9	14.1	14.9	15.8	16.5	17.3	17.9
92.5°	13.6	13.9	14.5	15.1	15.8	16.4	16.8	17.3	17.7	18.1	18.4
95°	25.2	23.1	24.2	25.3	26.5	27.6	28.4	29.2	29.9	30.7	31.0
97.5°	32.7	26.8	29.3	31.8	34.3	36.9	37.6	38.2	38.8	39.4	39.8
100°	39.1	29.6	32.3	34.9	37.7	40.3	41.5	42.8	44.0	45.3	46.2
102.5°	144.2	130.8	108.5	86.1	63.7	41.4	43.0	44.7	46.4	48.0	49.0
105°	233.8	214.7	171.8	128.9	86.0	43.1	44.8	46.6	48.3	50.0	51.2
107.5°	289.9	266.1	214.7	163.3	111.8	60.4	58.6	56.9	55.1	53.3	52.8
110°	326.4	305.3	259.9	214.5	169.2	123.7	108.1	92.3	76.5	60.9	53.3



TEST NUMBER: P331471-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	361.0	356.9	345.7	334.5	323.3	312.0	254.8	197.4	140.2	82.8	54.4
115°	417.2	420.5	424.4	428.4	432.2	436.2	363.5	290.7	217.9	145.2	103.2
117.5°	469.5	472.3	475.0	477.8	480.4	483.1	465.5	448.0	430.3	412.7	385.4
120°	504.3	506.9	509.7	512.5	515.3	518.2	520.1	522.0	523.8	525.7	516.0
122.5°	536.4	539.3	542.3	545.4	548.5	551.6	552.7	553.8	554.9	556.1	554.6
125°	582.9	585.4	588.4	591.4	594.4	597.3	598.4	599.6	600.7	601.8	602.6
127.5°	627.5	629.8	632.0	634.2	636.4	638.6	640.3	641.9	643.5	645.1	645.9
130°	656.2	658.3	660.0	661.8	663.5	665.3	667.0	668.7	670.4	672.2	673.0
132.5°	683.0	684.9	686.6	688.3	690.1	691.9	693.3	694.8	696.3	697.7	698.4
135°	721.2	723.3	724.7	726.1	727.5	728.9	730.4	732.1	733.6	735.2	735.8
137.5°	755.4	757.1	758.7	760.3	761.9	763.6	765.1	766.6	768.1	769.7	770.2
140°	777.7	779.2	780.9	782.6	784.4	786.2	787.6	789.0	790.4	791.8	792.1
142.5°	797.6	799.1	801.1	803.1	805.1	807.1	808.4	809.6	810.9	812.2	812.4
145°	824.4	825.7	828.3	831.0	833.6	836.4	837.5	838.5	839.6	840.7	840.9
147.5°	850.5	851.5	854.1	856.8	859.4	862.0	862.9	863.7	864.5	865.4	865.5
150°	866.6	867.3	869.8	872.3	874.8	877.4	878.3	879.2	880.2	881.1	881.2
152.5°	881.3	881.9	884.3	886.7	889.1	891.5	892.4	893.3	894.3	895.2	895.2
155°	902.8	903.0	904.9	906.8	908.7	910.6	911.5	912.4	913.4	914.3	914.1
157.5°	921.1	921.1	922.4	923.7	925.0	926.3	927.5	928.6	929.6	930.7	930.6
160°	932.2	932.2	933.2	934.1	935.0	936.0	937.0	937.9	938.9	939.8	939.7
162.5°	941.3	941.2	942.0	942.9	943.7	944.5	945.5	946.6	947.7	948.8	948.7
165°	953.4	953.2	953.7	954.1	954.6	955.1	956.2	957.4	958.4	959.5	959.5
167.5°	962.5	962.3	962.7	963.1	963.6	964.0	965.1	966.2	967.3	968.4	968.3
170°	967.6	967.2	967.6	968.0	968.3	968.6	969.7	970.8	971.8	972.9	972.8
172.5°	971.0	970.7	971.0	971.3	971.6	971.9	973.0	974.1	975.2	976.3	976.1
175°	974.7	974.3	974.6	975.0	975.3	975.6	976.7	977.9	978.9	980.0	979.8
177.5°	976.3	975.9	976.0	976.2	976.3	976.4	977.3	978.3	979.1	980.0	979.9
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331471-840

CATALOG NUMBER: S122DIW-S290D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	572.5	572.1	572.1	570.5	572.1	572.1	572.5	574.3	574.9	575.2	574.5
5°	531.1	530.4	529.3	530.4	529.3	530.4	531.1	534.3	535.9	537.5	538.9
7.5°	490.1	487.4	487.0	484.2	487.0	487.4	490.1	491.6	494.8	498.5	501.8
10°	460.2	458.4	458.1	453.7	458.1	458.4	460.2	464.1	467.3	471.6	476.3
12.5°	437.5	433.0	433.9	431.4	433.9	433.0	437.5	437.5	441.2	443.9	451.1
15°	398.0	398.0	397.1	393.2	397.1	398.0	398.0	404.2	405.4	409.7	415.9
17.5°	369.7	369.2	367.1	368.2	367.1	369.2	369.7	374.3	375.1	380.8	386.0
20°	352.8	351.4	348.7	348.7	348.7	351.4	352.8	355.4	358.3	361.7	366.2
22.5°	336.9	336.8	333.9	334.8	333.9	336.8	336.9	339.2	342.0	345.8	349.4
25°	318.2	316.4	315.0	315.7	315.0	316.4	318.2	318.4	321.6	324.2	326.5
27.5°	300.4	299.4	299.3	297.5	299.3	299.4	300.4	301.0	302.9	304.4	306.5
30°	290.2	287.9	288.3	287.2	288.3	287.9	290.2	290.4	291.3	292.3	294.8
32.5°	278.4	277.6	277.2	276.2	277.2	277.6	278.4	278.8	280.7	281.7	283.6
35°	262.5	262.7	261.6	262.0	261.6	262.7	262.5	262.9	263.2	264.1	265.9
37.5°	248.4	249.1	248.6	248.7	248.6	249.1	248.4	248.6	248.9	249.0	249.6
40°	239.2	239.2	239.2	239.9	239.2	239.2	239.2	238.6	238.8	238.6	238.6
42.5°	230.5	230.0	229.7	229.6	229.7	230.0	230.5	228.8	229.6	228.8	228.5
45°	215.4	216.1	216.3	215.2	216.3	216.1	215.4	215.0	214.3	214.0	213.8
47.5°	201.8	201.9	201.8	202.8	201.8	201.9	201.8	201.2	200.2	199.8	198.6
50°	192.3	191.8	192.3	191.8	192.3	191.8	192.3	191.1	190.4	189.2	188.3
52.5°	182.2	182.3	182.0	181.9	182.0	182.3	182.2	180.7	180.4	179.9	178.4
55°	166.3	166.7	166.5	166.5	166.5	166.7	166.3	165.4	165.2	163.8	162.4
57.5°	150.0	150.4	150.7	149.7	150.7	150.4	150.0	149.8	149.7	148.1	146.7
60°	138.6	139.7	139.5	139.1	139.5	139.7	138.6	138.8	138.1	137.1	136.2
62.5°	128.1	128.6	128.5	128.4	128.5	128.6	128.1	127.0	126.7	125.8	124.9
65°	112.0	112.4	111.7	112.4	111.7	112.4	112.0	111.3	109.7	109.2	108.3
67.5°	94.5	94.7	95.2	95.5	95.2	94.7	94.5	94.8	93.8	92.9	92.7
70°	83.7	83.5	84.2	84.9	84.2	83.5	83.7	83.3	82.6	81.9	81.0
72.5°	72.3	72.8	72.6	73.1	72.6	72.8	72.3	72.4	71.8	70.9	70.0
75°	55.7	56.5	56.2	56.9	56.2	56.5	55.7	56.2	55.7	54.8	53.9
77.5°	40.3	40.4	40.3	40.7	40.3	40.4	40.3	40.7	40.2	40.5	39.4
80°	30.7	30.3	29.8	30.7	29.8	30.3	30.7	30.7	30.1	30.7	30.1
82.5°	21.4	21.6	21.2	21.2	21.2	21.6	21.4	21.9	21.6	21.9	21.2
85°	9.9	9.6	9.2	9.2	9.2	9.6	9.9	9.9	10.5	10.1	10.1
87.5°	5.5	5.4	5.5	5.3	5.5	5.4	5.5	5.4	5.3	5.5	5.4
90°	18.2	18.5	18.8	19.1	18.8	18.5	18.2	17.9	17.3	16.5	15.8
92.5°	18.5	18.7	18.9	19.1	18.9	18.7	18.5	18.4	18.1	17.7	17.3
95°	30.9	30.7	30.6	30.4	30.6	30.7	30.9	31.0	30.7	29.9	29.2
97.5°	40.0	40.2	40.4	40.6	40.4	40.2	40.0	39.8	39.4	38.8	38.2
100°	46.5	46.8	47.1	47.4	47.1	46.8	46.5	46.2	45.3	44.0	42.8
102.5°	49.5	49.9	50.3	50.8	50.3	49.9	49.5	49.0	48.0	46.4	44.7
105°	51.8	52.5	53.1	53.7	53.1	52.5	51.8	51.2	50.0	48.3	46.6
107.5°	53.4	54.0	54.6	55.2	54.6	54.0	53.4	52.8	53.3	55.1	56.9
110°	53.9	54.6	55.2	55.8	55.2	54.6	53.9	53.3	60.9	76.5	92.3



TEST NUMBER: P331471-840

CATALOG NUMBER: S122DIW-S290D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	54.9	55.4	55.9	56.5	55.9	55.4	54.9	54.4	82.8	140.2	197.4
115°	91.9	80.6	69.3	58.0	69.3	80.6	91.9	103.2	145.2	217.9	290.7
117.5°	348.2	311.0	273.9	236.7	273.9	311.0	348.2	385.4	412.7	430.3	448.0
120°	494.8	473.6	452.4	431.2	452.4	473.6	494.8	516.0	525.7	523.8	522.0
122.5°	550.5	546.3	542.3	538.2	542.3	546.3	550.5	554.6	556.1	554.9	553.8
125°	603.0	603.5	604.0	604.4	604.0	603.5	603.0	602.6	601.8	600.7	599.6
127.5°	646.0	646.1	646.2	646.3	646.2	646.1	646.0	645.9	645.1	643.5	641.9
130°	672.8	672.7	672.5	672.4	672.5	672.7	672.8	673.0	672.2	670.4	668.7
132.5°	698.2	698.1	697.9	697.8	697.9	698.1	698.2	698.4	697.7	696.3	694.8
135°	735.5	735.2	734.9	734.6	734.9	735.2	735.5	735.8	735.2	733.6	732.1
137.5°	769.6	769.1	768.6	768.0	768.6	769.1	769.6	770.2	769.7	768.1	766.6
140°	791.3	790.5	789.7	789.0	789.7	790.5	791.3	792.1	791.8	790.4	789.0
142.5°	811.7	810.9	810.1	809.3	810.1	810.9	811.7	812.4	812.2	810.9	809.6
145°	840.1	839.3	838.5	837.8	838.5	839.3	840.1	840.9	840.7	839.6	838.5
147.5°	864.7	864.1	863.4	862.7	863.4	864.1	864.7	865.5	865.4	864.5	863.7
150°	880.4	879.6	878.8	878.1	878.8	879.6	880.4	881.2	881.1	880.2	879.2
152.5°	894.1	893.1	892.1	891.0	892.1	893.1	894.1	895.2	895.2	894.3	893.3
155°	912.9	911.7	910.4	909.2	910.4	911.7	912.9	914.1	914.3	913.4	912.4
157.5°	929.4	928.2	927.0	925.6	927.0	928.2	929.4	930.6	930.7	929.6	928.6
160°	938.6	937.5	936.4	935.3	936.4	937.5	938.6	939.7	939.8	938.9	937.9
162.5°	947.3	945.9	944.5	943.2	944.5	945.9	947.3	948.7	948.8	947.7	946.6
165°	958.4	957.4	956.2	955.1	956.2	957.4	958.4	959.5	959.5	958.4	957.4
167.5°	966.8	965.4	964.0	962.6	964.0	965.4	966.8	968.3	968.4	967.3	966.2
170°	971.4	970.0	968.6	967.1	968.6	970.0	971.4	972.8	972.9	971.8	970.8
172.5°	974.7	973.3	971.9	970.5	971.9	973.3	974.7	976.1	976.3	975.2	974.1
175°	978.2	976.6	975.0	973.5	975.0	976.6	978.2	979.8	980.0	978.9	977.9
177.5°	978.8	977.5	976.4	975.3	976.4	977.5	978.8	979.9	980.0	979.1	978.3
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331471-840

CATALOG NUMBER: S122DIW-S290D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	573.6	575.6	578.8	582.1	584.1	587.9	589.1	590.9	592.5	596.3	600.4
5°	540.5	543.7	551.3	555.4	561.1	567.7	572.1	576.7	581.8	590.5	598.5
7.5°	504.9	510.3	519.8	527.5	535.6	545.1	552.0	561.1	568.7	581.0	592.7
10°	481.3	488.9	497.4	506.5	518.0	528.1	537.8	549.2	558.4	573.1	586.8
12.5°	460.0	461.1	473.3	483.4	499.1	511.6	522.7	537.5	546.4	563.9	578.3
15°	422.8	429.7	440.7	448.7	467.3	483.1	498.8	514.1	524.4	546.0	565.0
17.5°	391.4	397.8	409.1	422.2	435.6	451.3	471.5	487.8	501.8	526.4	549.0
20°	371.6	379.4	390.9	404.5	416.2	433.3	450.8	469.4	484.5	512.3	538.7
22.5°	354.8	360.9	370.2	383.5	396.3	412.0	431.1	451.4	467.3	497.3	523.9
25°	331.0	336.1	342.0	353.0	367.5	384.8	399.6	421.9	445.0	473.0	505.3
27.5°	309.6	313.3	318.5	328.2	339.4	355.5	372.0	393.1	416.5	446.9	481.0
30°	296.6	298.9	304.2	312.3	323.3	335.9	352.6	372.7	396.7	427.4	461.3
32.5°	285.3	287.3	290.8	298.4	308.0	318.8	333.9	354.1	376.8	407.0	444.6
35°	268.2	269.7	272.8	278.9	284.3	294.8	307.4	325.8	347.1	376.0	415.0
37.5°	251.2	253.4	255.2	257.8	264.6	271.6	282.5	298.0	318.9	348.1	385.3
40°	239.9	241.8	244.6	245.7	251.2	257.4	266.3	280.5	301.6	328.3	364.6
42.5°	228.5	230.5	232.1	233.4	238.1	243.6	251.7	263.9	282.6	308.4	344.4
45°	213.1	213.4	215.0	217.5	219.7	223.7	229.4	239.9	254.4	278.7	311.3
47.5°	197.4	197.7	197.9	199.0	201.6	205.1	208.9	217.5	230.5	249.8	281.6
50°	186.9	186.5	186.9	187.8	189.5	192.5	196.8	203.0	213.6	231.7	260.8
52.5°	176.8	176.8	176.5	176.8	178.1	180.2	183.3	188.5	197.9	214.6	240.2
55°	161.5	160.4	160.6	159.7	161.8	162.2	164.5	168.8	177.1	188.5	212.7
57.5°	145.1	144.2	143.2	142.9	142.7	143.9	145.7	149.2	155.5	165.6	185.1
60°	134.6	133.5	132.1	131.7	131.7	132.4	133.3	135.8	141.8	150.7	166.7
62.5°	124.0	122.7	121.9	120.7	120.3	121.0	121.9	123.7	128.1	136.4	150.3
65°	107.6	105.9	104.8	104.6	104.1	103.5	103.9	105.7	109.2	115.8	126.8
67.5°	91.1	89.6	89.4	88.0	87.4	87.5	87.4	88.9	91.0	96.7	104.9
70°	80.3	79.2	78.7	77.6	77.1	76.6	76.1	77.6	79.6	84.4	91.5
72.5°	69.3	68.3	67.4	66.3	66.4	65.9	65.8	66.8	68.4	72.8	78.4
75°	53.4	53.7	52.5	51.4	51.2	50.7	50.7	51.4	52.1	55.5	59.9
77.5°	38.8	38.6	37.7	37.3	37.1	36.6	37.1	37.5	37.9	40.2	43.3
80°	29.6	29.6	28.5	28.5	28.2	27.6	28.2	27.8	28.7	31.0	33.2
82.5°	21.1	20.8	20.7	20.4	20.3	19.8	20.1	20.6	21.0	22.5	23.9
85°	10.3	10.3	10.1	9.9	10.1	9.9	10.1	10.3	10.5	11.2	12.4
87.5°	5.2	5.3	5.2	5.0	4.8	4.7	4.6	4.4	4.5	4.3	4.1
90°	14.9	14.1	12.9	11.6	10.4	9.1	7.6	5.9	4.1	2.4	0.7
92.5°	16.8	16.4	15.8	15.1	14.5	13.9	13.6	13.8	13.9	14.1	14.2
95°	28.4	27.6	26.5	25.3	24.2	23.1	25.2	30.4	35.5	40.8	45.9
97.5°	37.6	36.9	34.3	31.8	29.3	26.8	32.7	47.4	62.0	76.5	91.2
100°	41.5	40.3	37.7	34.9	32.3	29.6	39.1	60.6	82.1	103.6	125.1
102.5°	43.0	41.4	63.7	86.1	108.5	130.8	144.2	148.8	153.3	157.9	162.5
105°	44.8	43.1	86.0	128.9	171.8	214.7	233.8	229.0	224.4	219.6	214.9
107.5°	58.6	60.4	111.8	163.3	214.7	266.1	289.9	286.1	282.4	278.5	274.7
110°	108.1	123.7	169.2	214.5	259.9	305.3	326.4	323.1	319.8	316.5	313.2



TEST NUMBER: P331471-840

CATALOG NUMBER: S122DIW-S290D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	254.8	312.0	323.3	334.5	345.7	356.9	361.0	358.1	355.3	352.3	349.4
115°	363.5	436.2	432.2	428.4	424.4	420.5	417.2	414.5	411.8	409.2	406.5
117.5°	465.5	483.1	480.4	477.8	475.0	472.3	469.5	466.5	463.5	460.5	457.6
120°	520.1	518.2	515.3	512.5	509.7	506.9	504.3	501.9	499.6	497.3	494.8
122.5°	552.7	551.6	548.5	545.4	542.3	539.3	536.4	534.0	531.5	529.1	526.5
125°	598.4	597.3	594.4	591.4	588.4	585.4	582.9	580.9	578.9	576.8	574.7
127.5°	640.3	638.6	636.4	634.2	632.0	629.8	627.5	625.2	623.0	620.7	618.4
130°	667.0	665.3	663.5	661.8	660.0	658.3	656.2	653.7	651.2	648.6	646.1
132.5°	693.3	691.9	690.1	688.3	686.6	684.9	683.0	680.9	678.7	676.6	674.5
135°	730.4	728.9	727.5	726.1	724.7	723.3	721.2	718.7	716.2	713.7	711.2
137.5°	765.1	763.6	761.9	760.3	758.7	757.1	755.4	753.7	751.9	750.1	748.4
140°	787.6	786.2	784.4	782.6	780.9	779.2	777.7	776.5	775.2	774.0	772.7
142.5°	808.4	807.1	805.1	803.1	801.1	799.1	797.6	796.5	795.4	794.2	793.0
145°	837.5	836.4	833.6	831.0	828.3	825.7	824.4	824.6	824.8	824.9	825.1
147.5°	862.9	862.0	859.4	856.8	854.1	851.5	850.5	851.1	851.7	852.3	852.8
150°	878.3	877.4	874.8	872.3	869.8	867.3	866.6	867.7	868.8	869.9	871.0
152.5°	892.4	891.5	889.1	886.7	884.3	881.9	881.3	882.5	883.8	885.0	886.3
155°	911.5	910.6	908.7	906.8	904.9	903.0	902.8	904.2	905.6	907.1	908.5
157.5°	927.5	926.3	925.0	923.7	922.4	921.1	921.1	922.2	923.4	924.6	925.8
160°	937.0	936.0	935.0	934.1	933.2	932.2	932.2	933.2	934.1	935.0	936.0
162.5°	945.5	944.5	943.7	942.9	942.0	941.2	941.3	942.2	943.2	944.1	945.0
165°	956.2	955.1	954.6	954.1	953.7	953.2	953.4	954.4	955.3	956.2	957.3
167.5°	965.1	964.0	963.6	963.1	962.7	962.3	962.5	963.4	964.4	965.3	966.2
170°	969.7	968.6	968.3	968.0	967.6	967.2	967.6	968.6	969.5	970.4	971.4
172.5°	973.0	971.9	971.6	971.3	971.0	970.7	971.0	971.9	972.9	973.8	974.7
175°	976.7	975.6	975.3	975.0	974.6	974.3	974.7	975.8	976.9	978.1	979.2
177.5°	977.3	976.4	976.3	976.2	976.0	975.9	976.3	977.2	978.1	979.0	979.9
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331471-840

CATALOG NUMBER: S122DIW-S290D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	600.1	601.0	603.9	606.8	610.2	611.1	612.5	611.3	610.9	614.3	616.9
5°	601.8	605.8	613.9	621.3	627.4	631.8	636.4	638.2	641.7	646.4	652.5
7.5°	599.8	607.8	620.5	631.2	642.8	651.2	657.7	663.4	670.1	679.2	689.2
10°	597.6	608.3	623.8	636.8	651.1	661.9	670.8	679.5	689.6	702.3	715.3
12.5°	593.6	606.3	625.6	641.1	659.3	669.9	682.0	700.7	711.7	729.2	747.6
15°	585.4	599.7	626.5	645.5	666.2	686.4	708.6	726.5	744.4	754.8	780.6
17.5°	573.4	594.2	624.0	646.2	672.5	704.2	729.2	749.5	770.1	786.9	799.9
20°	563.6	586.3	620.4	646.9	678.1	712.3	740.9	761.6	779.5	793.6	801.5
22.5°	551.4	580.0	613.0	644.2	684.0	717.8	747.9	764.2	779.1	786.0	789.1
25°	532.0	566.4	603.8	641.9	686.8	722.7	750.1	760.0	764.4	757.7	746.7
27.5°	511.1	549.5	593.2	637.5	685.1	719.5	739.2	737.7	730.3	708.7	691.6
30°	495.5	537.8	584.7	633.2	680.9	714.4	725.8	714.4	697.6	673.6	648.9
32.5°	479.2	522.9	575.7	626.9	673.2	702.7	705.1	685.4	659.4	632.1	601.5
35°	454.4	501.7	558.9	613.0	656.8	675.4	664.4	629.4	598.7	561.4	519.6
37.5°	426.5	478.7	535.9	592.6	632.3	637.1	609.8	573.1	529.7	485.7	436.6
40°	405.6	460.9	519.9	576.9	612.1	607.0	572.1	531.8	480.2	426.5	380.8
42.5°	386.9	442.1	502.2	558.3	586.3	572.5	531.8	482.2	426.8	376.2	334.4
45°	354.5	411.3	472.8	526.9	543.0	518.0	464.1	409.0	354.5	312.3	279.2
47.5°	323.0	379.2	440.1	487.7	493.3	459.7	400.8	344.2	297.2	262.9	239.5
50°	299.8	356.3	416.6	459.1	457.2	416.6	356.1	302.2	262.9	235.1	219.5
52.5°	279.1	332.4	390.3	429.0	419.2	375.0	317.1	269.2	237.0	215.3	201.2
55°	246.8	296.2	351.2	382.2	364.3	315.2	266.3	227.8	203.9	187.6	176.6
57.5°	214.8	261.1	308.2	327.3	307.5	262.2	221.5	193.5	175.5	163.5	156.3
60°	195.0	235.4	277.3	293.9	270.2	229.8	197.7	172.8	158.2	148.5	142.0
62.5°	175.2	211.4	251.0	259.9	238.3	204.2	175.7	154.9	143.1	134.3	128.3
65°	148.1	177.8	207.8	213.8	193.9	167.4	145.0	131.5	120.9	114.5	109.7
67.5°	121.6	145.3	166.6	171.4	153.9	135.6	119.4	107.6	100.5	95.1	91.0
70°	105.7	124.6	142.0	145.9	131.9	115.6	103.2	93.8	87.4	82.8	78.9
72.5°	89.1	104.7	119.3	121.9	110.5	98.0	87.9	80.4	74.7	71.8	68.1
75°	68.2	77.4	88.6	89.3	81.7	74.1	66.3	61.5	58.5	54.8	53.0
77.5°	48.1	55.2	61.7	62.9	58.5	53.3	49.0	45.1	42.6	40.9	39.2
80°	36.7	42.4	45.2	46.8	43.6	39.9	37.4	34.8	33.2	32.1	31.0
82.5°	26.3	29.8	32.3	33.6	31.8	29.6	27.2	25.7	24.4	23.5	23.1
85°	13.3	14.9	16.6	17.0	16.6	15.6	14.2	14.2	13.5	13.3	13.3
87.5°	5.0	6.2	6.5	7.4	7.4	7.6	7.9	7.9	8.0	8.0	7.9
90°	2.4	4.1	5.9	7.6	9.1	10.4	11.6	12.9	14.1	14.9	15.8
92.5°	14.1	13.9	13.8	13.6	13.9	14.5	15.1	15.8	16.4	16.8	17.3
95°	40.8	35.5	30.4	25.2	23.1	24.2	25.3	26.5	27.6	28.4	29.2
97.5°	76.5	62.0	47.4	32.7	26.8	29.3	31.8	34.3	36.9	37.6	38.2
100°	103.6	82.1	60.6	39.1	29.6	32.3	34.9	37.7	40.3	41.5	42.8
102.5°	157.9	153.3	148.8	144.2	130.8	108.5	86.1	63.7	41.4	43.0	44.7
105°	219.6	224.4	229.0	233.8	214.7	171.8	128.9	86.0	43.1	44.8	46.6
107.5°	278.5	282.4	286.1	289.9	266.1	214.7	163.3	111.8	60.4	58.6	56.9
110°	316.5	319.8	323.1	326.4	305.3	259.9	214.5	169.2	123.7	108.1	92.3



TEST NUMBER: P331471-840

CATALOG NUMBER: S122DIW-S290D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	352.3	355.3	358.1	361.0	356.9	345.7	334.5	323.3	312.0	254.8	197.4
115°	409.2	411.8	414.5	417.2	420.5	424.4	428.4	432.2	436.2	363.5	290.7
117.5°	460.5	463.5	466.5	469.5	472.3	475.0	477.8	480.4	483.1	465.5	448.0
120°	497.3	499.6	501.9	504.3	506.9	509.7	512.5	515.3	518.2	520.1	522.0
122.5°	529.1	531.5	534.0	536.4	539.3	542.3	545.4	548.5	551.6	552.7	553.8
125°	576.8	578.9	580.9	582.9	585.4	588.4	591.4	594.4	597.3	598.4	599.6
127.5°	620.7	623.0	625.2	627.5	629.8	632.0	634.2	636.4	638.6	640.3	641.9
130°	648.6	651.2	653.7	656.2	658.3	660.0	661.8	663.5	665.3	667.0	668.7
132.5°	676.6	678.7	680.9	683.0	684.9	686.6	688.3	690.1	691.9	693.3	694.8
135°	713.7	716.2	718.7	721.2	723.3	724.7	726.1	727.5	728.9	730.4	732.1
137.5°	750.1	751.9	753.7	755.4	757.1	758.7	760.3	761.9	763.6	765.1	766.6
140°	774.0	775.2	776.5	777.7	779.2	780.9	782.6	784.4	786.2	787.6	789.0
142.5°	794.2	795.4	796.5	797.6	799.1	801.1	803.1	805.1	807.1	808.4	809.6
145°	824.9	824.8	824.6	824.4	825.7	828.3	831.0	833.6	836.4	837.5	838.5
147.5°	852.3	851.7	851.1	850.5	851.5	854.1	856.8	859.4	862.0	862.9	863.7
150°	869.9	868.8	867.7	866.6	867.3	869.8	872.3	874.8	877.4	878.3	879.2
152.5°	885.0	883.8	882.5	881.3	881.9	884.3	886.7	889.1	891.5	892.4	893.3
155°	907.1	905.6	904.2	902.8	903.0	904.9	906.8	908.7	910.6	911.5	912.4
157.5°	924.6	923.4	922.2	921.1	921.1	922.4	923.7	925.0	926.3	927.5	928.6
160°	935.0	934.1	933.2	932.2	932.2	933.2	934.1	935.0	936.0	937.0	937.9
162.5°	944.1	943.2	942.2	941.3	941.2	942.0	942.9	943.7	944.5	945.5	946.6
165°	956.2	955.3	954.4	953.4	953.2	953.7	954.1	954.6	955.1	956.2	957.4
167.5°	965.3	964.4	963.4	962.5	962.3	962.7	963.1	963.6	964.0	965.1	966.2
170°	970.4	969.5	968.6	967.6	967.2	967.6	968.0	968.3	968.6	969.7	970.8
172.5°	973.8	972.9	971.9	971.0	970.7	971.0	971.3	971.6	971.9	973.0	974.1
175°	978.1	976.9	975.8	974.7	974.3	974.6	975.0	975.3	975.6	976.7	977.9
177.5°	979.0	978.1	977.2	976.3	975.9	976.0	976.2	976.3	976.4	977.3	978.3
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	619.1	621.7	621.7	622.1	625.0	624.6	624.4
5°	658.8	662.8	663.2	667.3	670.0	669.1	666.6
7.5°	696.3	703.6	709.1	712.2	715.8	718.0	717.0
10°	726.1	736.6	743.1	747.4	752.7	756.6	755.2
12.5°	753.1	765.6	774.5	781.9	782.5	787.6	784.2
15°	795.2	808.4	809.8	815.3	819.7	819.2	819.4
17.5°	809.0	813.2	814.2	814.3	814.4	812.7	809.2
20°	804.1	802.4	798.6	795.6	790.3	789.6	785.1
22.5°	780.5	775.5	765.7	759.2	751.0	748.9	747.6
25°	734.4	723.1	707.5	692.6	688.4	680.4	682.7
27.5°	670.9	653.4	636.4	624.4	613.4	601.4	604.8
30°	626.3	606.5	582.7	564.3	552.6	541.2	539.1
32.5°	573.1	544.1	517.6	501.4	483.4	476.2	468.3
35°	481.3	453.0	426.7	403.9	390.9	380.8	371.6
37.5°	398.8	366.3	345.0	326.6	317.1	311.3	312.9
40°	347.6	319.1	303.5	289.5	280.7	276.7	277.6
42.5°	306.1	284.8	272.0	262.4	256.2	253.9	253.4
45°	259.0	247.1	236.5	231.1	228.0	225.5	223.9
47.5°	226.9	217.1	211.2	207.9	205.3	202.8	202.7
50°	207.6	201.2	197.0	193.6	191.6	189.8	191.4
52.5°	192.9	187.0	182.9	179.9	179.0	177.4	177.3
55°	171.2	166.5	163.6	160.8	159.5	158.5	157.3
57.5°	151.3	146.9	144.2	142.5	139.9	139.0	138.6
60°	137.1	133.7	131.0	128.7	127.5	125.7	125.7
62.5°	124.1	120.7	118.2	116.4	114.5	113.8	114.0
65°	105.3	102.5	100.0	98.2	97.8	96.3	96.8
67.5°	88.0	86.1	83.4	82.4	81.6	80.9	80.3
70°	76.3	74.5	73.2	71.8	71.1	71.1	71.1
72.5°	66.7	64.4	63.6	61.9	62.3	61.6	60.8
75°	51.6	50.2	49.6	48.9	47.8	47.8	47.8
77.5°	38.0	37.6	36.8	36.1	35.7	35.5	35.6
80°	29.4	29.1	28.7	28.7	28.2	28.0	27.6
82.5°	22.6	22.0	21.7	21.5	21.4	21.4	21.3
85°	12.8	12.4	12.4	12.6	12.1	12.1	12.4
87.5°	8.3	8.4	8.4	8.4	8.7	8.5	8.6
90°	16.5	17.3	17.9	18.2	18.5	18.8	19.1
92.5°	17.7	18.1	18.4	18.5	18.7	18.9	19.1
95°	29.9	30.7	31.0	30.9	30.7	30.6	30.4
97.5°	38.8	39.4	39.8	40.0	40.2	40.4	40.6
100°	44.0	45.3	46.2	46.5	46.8	47.1	47.4
102.5°	46.4	48.0	49.0	49.5	49.9	50.3	50.8
105°	48.3	50.0	51.2	51.8	52.5	53.1	53.7
107.5°	55.1	53.3	52.8	53.4	54.0	54.6	55.2
110°	76.5	60.9	53.3	53.9	54.6	55.2	55.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	140.2	82.8	54.4	54.9	55.4	55.9	56.5
115°	217.9	145.2	103.2	91.9	80.6	69.3	58.0
117.5°	430.3	412.7	385.4	348.2	311.0	273.9	236.7
120°	523.8	525.7	516.0	494.8	473.6	452.4	431.2
122.5°	554.9	556.1	554.6	550.5	546.3	542.3	538.2
125°	600.7	601.8	602.6	603.0	603.5	604.0	604.4
127.5°	643.5	645.1	645.9	646.0	646.1	646.2	646.3
130°	670.4	672.2	673.0	672.8	672.7	672.5	672.4
132.5°	696.3	697.7	698.4	698.2	698.1	697.9	697.8
135°	733.6	735.2	735.8	735.5	735.2	734.9	734.6
137.5°	768.1	769.7	770.2	769.6	769.1	768.6	768.0
140°	790.4	791.8	792.1	791.3	790.5	789.7	789.0
142.5°	810.9	812.2	812.4	811.7	810.9	810.1	809.3
145°	839.6	840.7	840.9	840.1	839.3	838.5	837.8
147.5°	864.5	865.4	865.5	864.7	864.1	863.4	862.7
150°	880.2	881.1	881.2	880.4	879.6	878.8	878.1
152.5°	894.3	895.2	895.2	894.1	893.1	892.1	891.0
155°	913.4	914.3	914.1	912.9	911.7	910.4	909.2
157.5°	929.6	930.7	930.6	929.4	928.2	927.0	925.6
160°	938.9	939.8	939.7	938.6	937.5	936.4	935.3
162.5°	947.7	948.8	948.7	947.3	945.9	944.5	943.2
165°	958.4	959.5	959.5	958.4	957.4	956.2	955.1
167.5°	967.3	968.4	968.3	966.8	965.4	964.0	962.6
170°	971.8	972.9	972.8	971.4	970.0	968.6	967.1
172.5°	975.2	976.3	976.1	974.7	973.3	971.9	970.5
175°	978.9	980.0	979.8	978.2	976.6	975.0	973.5
177.5°	979.1	980.0	979.9	978.8	977.5	976.4	975.3
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0

(END OF REPORT)