

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: P331471-940

Luminaire Tested: **S122DIW-S290D710U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331471-940
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-S290D710U940-4F0-1E-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: 3693.1 lumens
Efficiency: N/A
Efficacy: 121.5 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

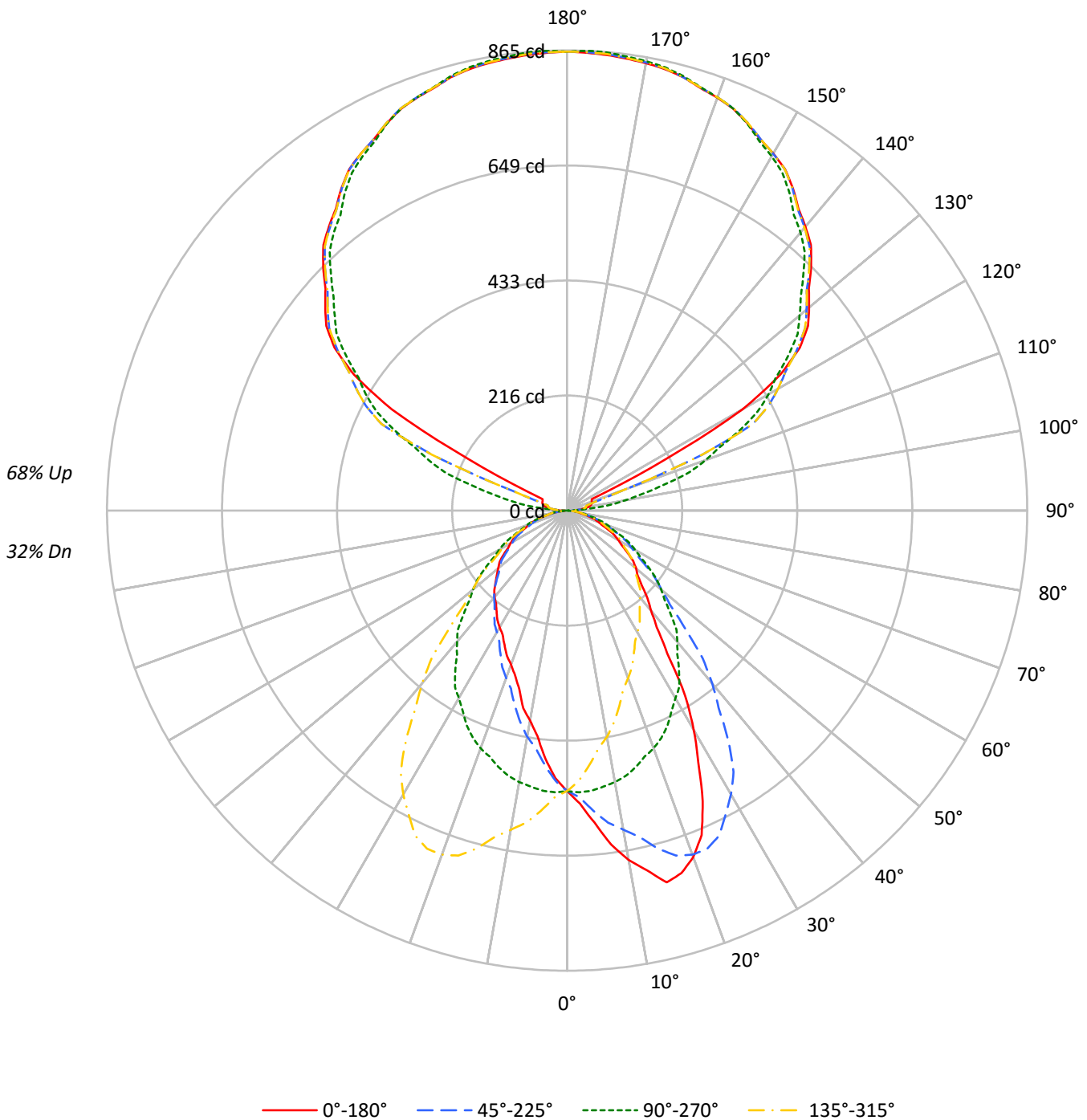
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	8510	8510	8510	8510
5°	9540	8566	7590	8566
10°	10932	8496	6568	8496
15°	12094	8339	5804	8339
20°	11911	8172	5290	8172
25°	10739	7949	4965	7949
30°	8874	7594	4728	7594
35°	6467	7222	4559	7222
40°	5166	6785	4466	6785
45°	4514	6277	4338	6277
50°	4245	5785	4253	5785
55°	3910	5286	4138	5286
60°	3584	4753	3965	4753
65°	3266	4279	3790	4279
70°	2965	3814	3541	3814
75°	2633	3300	3132	3300
80°	2259	2724	2520	2724
85°	2038	2038	1501	2038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.4
10°-20°	145.9	4.0
20°-30°	211.8	5.7
30°-40°	223.5	6.1
40°-50°	197.9	5.4
50°-60°	157.9	4.3
60°-70°	107.3	2.9
70°-80°	55.0	1.5
80°-90°	15.4	0.4
90°-100°	28.8	0.8
100°-110°	105.5	2.9
110°-120°	282.1	7.6
120°-130°	465.6	12.6
130°-140°	495.2	13.4
140°-150°	460.3	12.5
150°-160°	370.1	10.0
160°-170°	238.5	6.5
170°-180°	82.1	2.2
0°-30°	407.9	11.0
0°-40°	631.4	17.1
0°-60°	987.2	26.7
0°-90°	1165.0	31.5
90°-120°	416.4	11.3
90°-150°	1837.6	49.8
90°-180°	2528.0	68.5
0°-180°	3693.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	527	527	527	527	527	
5°	589	528	468	528	589	59
15°	724	499	347	499	724	200
25°	603	446	279	446	603	272
35°	328	366	231	366	328	213
45°	198	275	190	275	198	155
55°	139	188	147	188	139	125
65°	86	112	99	112	86	85
75°	42	53	50	53	42	45
85°	11	11	8	11	11	12
90°	17	1	17	1	17	8
95°	27	41	27	41	27	25
105°	47	190	47	190	47	49
115°	51	359	51	359	51	128
125°	534	508	534	508	534	462
135°	649	628	649	628	649	500
145°	740	728	740	728	740	463
155°	803	802	803	802	803	370
165°	843	845	843	845	843	238
175°	860	865	860	865	860	82
180°	863	863	863	863	863	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	551.3	551.5	551.9	549.3	548.9	548.9	546.7	544.7	542.4	539.4	539.8
5°	588.6	590.8	591.7	589.2	585.6	585.2	581.8	576.1	570.8	566.6	563.6
7.5°	633.1	634.0	632.0	628.8	626.2	621.3	614.8	608.6	599.8	591.7	585.8
10°	666.8	668.1	664.6	660.0	656.1	650.4	641.1	631.6	620.1	608.9	600.0
12.5°	692.4	695.4	691.0	690.5	683.9	676.0	664.9	660.1	643.9	628.4	618.8
15°	723.5	723.4	723.8	719.9	715.1	713.8	702.1	689.3	666.5	657.3	641.5
17.5°	714.5	717.6	719.1	719.0	718.9	718.1	714.3	706.3	694.8	680.0	661.8
20°	693.2	697.2	697.9	702.5	705.2	708.6	710.0	707.8	700.7	688.3	672.5
22.5°	660.1	661.3	663.2	670.4	676.1	684.7	689.2	696.8	694.0	688.0	674.8
25°	602.8	600.8	607.9	611.5	624.7	638.5	648.5	659.3	669.1	674.9	671.1
27.5°	534.0	531.0	541.6	551.3	562.0	576.9	592.4	610.6	625.8	644.9	651.4
30°	476.0	477.9	487.9	498.3	514.5	535.6	553.0	573.0	594.8	616.0	630.8
32.5°	413.5	420.4	426.9	442.7	457.0	480.5	506.0	531.1	558.1	582.3	605.2
35°	328.1	336.3	345.2	356.7	376.7	400.0	425.0	458.8	495.7	528.7	555.8
37.5°	276.3	274.9	280.0	288.4	304.6	323.4	352.1	385.5	428.9	467.7	506.0
40°	245.1	244.3	247.9	255.7	268.0	281.8	306.9	336.3	376.6	424.0	469.6
42.5°	223.7	224.2	226.2	231.7	240.1	251.5	270.3	295.2	332.2	376.8	425.8
45°	197.7	199.1	201.3	204.0	208.8	218.2	228.7	246.6	275.7	313.0	361.1
47.5°	179.0	179.1	181.3	183.6	186.5	191.7	200.4	211.5	232.1	262.4	303.9
50°	169.0	167.6	169.2	170.9	174.0	177.6	183.3	193.9	207.6	232.1	266.8
52.5°	156.6	156.7	158.1	158.8	161.5	165.1	170.3	177.6	190.1	209.3	237.7
55°	138.9	140.0	140.8	142.0	144.5	147.0	151.1	156.0	165.7	180.0	201.2
57.5°	122.3	122.7	123.5	125.8	127.3	129.7	133.6	138.0	144.4	155.0	170.9
60°	111.0	111.0	112.6	113.6	115.7	118.1	121.1	125.4	131.1	139.7	152.6
62.5°	100.7	100.5	101.1	102.8	104.3	106.6	109.6	113.2	118.6	126.4	136.8
65°	85.5	85.1	86.3	86.7	88.3	90.5	93.0	96.8	101.1	106.7	116.1
67.5°	70.9	71.4	72.1	72.8	73.7	76.1	77.7	80.3	84.0	88.7	95.0
70°	62.8	62.8	62.8	63.4	64.6	65.8	67.4	69.6	73.1	77.1	82.8
72.5°	53.7	54.4	55.0	54.7	56.2	56.9	58.9	60.1	63.4	66.0	71.0
75°	42.2	42.2	42.2	43.2	43.8	44.3	45.6	46.8	48.4	51.6	54.3
77.5°	31.5	31.4	31.6	31.8	32.5	33.2	33.5	34.6	36.1	37.6	39.9
80°	24.3	24.7	24.9	25.3	25.3	25.7	25.9	27.4	28.4	29.3	30.8
82.5°	18.8	18.9	18.9	19.0	19.2	19.4	20.0	20.4	20.8	21.6	22.6
85°	11.0	10.7	10.7	11.1	11.0	11.0	11.3	11.8	11.8	11.9	12.6
87.5°	7.6	7.5	7.7	7.4	7.4	7.4	7.3	7.0	7.0	7.0	7.0
90°	16.9	16.6	16.3	16.1	15.8	15.2	14.5	13.9	13.2	12.5	11.4
92.5°	16.9	16.7	16.5	16.3	16.2	16.0	15.6	15.2	14.8	14.4	13.9
95°	26.8	27.0	27.1	27.3	27.4	27.1	26.4	25.8	25.1	24.3	23.4
97.5°	35.8	35.7	35.5	35.3	35.1	34.8	34.2	33.7	33.2	32.5	30.3
100°	41.8	41.6	41.3	41.0	40.8	40.0	38.9	37.8	36.6	35.6	33.3
102.5°	44.9	44.4	44.1	43.7	43.2	42.4	40.9	39.5	38.0	36.6	56.3
105°	47.4	46.9	46.4	45.7	45.2	44.1	42.6	41.1	39.6	38.1	76.0
107.5°	48.8	48.2	47.7	47.2	46.6	47.1	48.7	50.2	51.7	53.3	98.7
110°	49.3	48.8	48.2	47.6	47.1	53.8	67.6	81.5	95.4	109.2	149.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	49.8	49.4	49.0	48.5	48.1	73.1	123.8	174.3	225.0	275.5	285.4
115°	51.2	61.2	71.2	81.1	91.1	128.2	192.4	256.7	320.9	385.1	381.7
117.5°	209.0	241.8	274.6	307.5	340.3	364.4	380.0	395.6	411.1	426.6	424.2
120°	380.8	399.5	418.2	436.9	455.7	464.2	462.5	460.9	459.2	457.5	455.0
122.5°	475.2	478.8	482.4	486.1	489.7	491.1	490.0	489.0	488.0	487.1	484.3
125°	533.7	533.3	532.9	532.4	532.1	531.4	530.4	529.4	528.4	527.4	524.9
127.5°	570.7	570.6	570.5	570.4	570.3	569.6	568.2	566.8	565.3	563.9	562.0
130°	593.7	593.8	594.0	594.1	594.2	593.5	592.0	590.5	589.0	587.5	585.9
132.5°	616.2	616.3	616.4	616.5	616.7	616.1	614.8	613.5	612.2	610.9	609.4
135°	648.6	648.9	649.2	649.4	649.7	649.2	647.7	646.4	645.0	643.6	642.4
137.5°	678.1	678.7	679.1	679.6	680.1	679.7	678.2	676.9	675.6	674.2	672.8
140°	696.7	697.3	698.0	698.7	699.5	699.2	697.9	696.7	695.4	694.2	692.6
142.5°	714.6	715.3	716.0	716.8	717.4	717.2	716.0	714.9	713.8	712.7	710.9
145°	739.8	740.4	741.1	741.8	742.5	742.3	741.4	740.4	739.5	738.5	736.1
147.5°	761.8	762.4	763.0	763.6	764.2	764.1	763.4	762.7	762.0	761.2	758.8
150°	775.3	776.0	776.7	777.4	778.1	778.0	777.2	776.3	775.5	774.7	772.5
152.5°	786.8	787.7	788.6	789.5	790.5	790.5	789.7	788.8	788.0	787.2	785.1
155°	802.8	803.9	805.0	806.1	807.2	807.4	806.6	805.7	804.9	804.1	802.4
157.5°	817.3	818.5	819.6	820.6	821.7	821.8	820.8	819.9	818.9	818.0	816.8
160°	825.9	826.9	827.8	828.8	829.7	829.8	829.0	828.1	827.3	826.5	825.6
162.5°	832.9	834.0	835.3	836.4	837.7	837.8	836.8	835.9	834.9	834.0	833.3
165°	843.4	844.4	845.3	846.2	847.2	847.2	846.2	845.3	844.4	843.4	842.9
167.5°	850.0	851.2	852.5	853.7	855.0	855.1	854.2	853.2	852.2	851.2	850.9
170°	854.0	855.2	856.5	857.7	859.0	859.1	858.1	857.2	856.2	855.2	855.0
172.5°	856.9	858.2	859.4	860.7	861.9	862.1	861.1	860.1	859.2	858.2	857.9
175°	859.6	860.9	862.4	863.7	865.1	865.3	864.3	863.4	862.5	861.5	861.2
177.5°	861.2	862.2	863.2	864.2	865.2	865.3	864.5	863.8	863.0	862.2	862.1
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	540.8	539.6	538.8	535.8	533.2	530.7	529.9	530.1	526.6	523.2	521.7
5°	562.0	557.9	554.0	548.6	542.1	534.9	531.4	528.5	521.4	513.7	509.3
7.5°	580.8	575.0	567.6	557.3	547.9	536.7	529.6	523.3	513.0	502.1	495.4
10°	592.3	584.4	574.9	562.3	550.8	537.2	527.7	518.2	506.0	493.0	484.9
12.5°	602.2	591.6	582.2	566.1	552.4	535.4	524.1	510.7	497.9	482.5	474.6
15°	625.7	606.1	588.3	570.0	553.2	529.5	516.9	498.9	482.1	463.1	454.0
17.5°	643.9	621.8	593.8	570.6	551.0	524.7	506.3	484.7	464.8	443.1	430.7
20°	654.2	628.9	598.8	571.2	547.8	517.7	497.7	475.6	452.4	427.8	414.5
22.5°	660.4	633.8	604.0	568.8	541.3	512.1	486.9	462.6	439.1	412.6	398.6
25°	662.4	638.1	606.5	566.8	533.2	500.2	469.8	446.2	417.7	393.0	372.6
27.5°	652.7	635.3	604.9	562.9	523.8	485.2	451.3	424.7	394.6	367.7	347.1
30°	640.9	630.8	601.2	559.1	516.3	474.8	437.6	407.3	377.4	350.3	329.1
32.5°	622.6	620.5	594.4	553.6	508.4	461.7	423.1	392.6	359.4	332.7	312.6
35°	586.7	596.4	580.0	541.3	493.5	443.0	401.3	366.4	332.0	306.5	287.7
37.5°	538.4	562.6	558.3	523.3	473.2	422.7	376.6	340.2	307.4	281.6	263.1
40°	505.2	536.0	540.5	509.4	459.1	407.0	358.1	321.9	289.9	266.4	247.7
42.5°	469.6	505.5	517.7	492.9	443.4	390.4	341.6	304.1	272.3	249.5	233.0
45°	409.8	457.4	479.5	465.3	417.5	363.2	313.0	274.9	246.1	224.6	211.9
47.5°	353.9	405.9	435.6	430.6	388.6	334.8	285.2	248.6	220.6	203.5	192.1
50°	314.4	367.8	403.7	405.4	367.8	314.6	264.7	230.3	204.6	188.6	179.2
52.5°	280.0	331.1	370.1	378.8	344.6	293.6	246.5	212.1	189.5	174.8	166.5
55°	235.1	278.3	321.6	337.5	310.1	261.5	217.9	187.8	166.5	156.4	149.1
57.5°	195.6	231.5	271.5	289.0	272.2	230.5	189.7	163.5	146.2	137.3	131.7
60°	174.6	203.0	238.6	259.5	244.9	207.9	172.2	147.2	133.0	125.2	119.9
62.5°	155.2	180.3	210.4	229.5	221.6	186.6	154.7	132.7	120.5	113.1	109.2
65°	128.0	147.8	171.2	188.8	183.5	157.0	130.8	112.0	102.3	96.4	93.4
67.5°	105.4	119.8	135.9	151.3	147.1	128.3	107.4	92.6	85.4	80.3	78.5
70°	91.1	102.1	116.5	128.9	125.4	110.0	93.4	80.8	74.5	70.3	68.5
72.5°	77.6	86.5	97.6	107.6	105.3	92.5	78.6	69.2	64.3	60.4	58.9
75°	58.6	65.5	72.1	78.8	78.2	68.3	60.2	52.9	49.0	46.0	45.4
77.5°	43.2	47.1	51.6	55.6	54.5	48.8	42.4	38.3	35.5	33.4	33.1
80°	33.0	35.2	38.5	41.3	39.9	37.5	32.4	29.3	27.4	25.3	24.5
82.5°	24.0	26.1	28.1	29.7	28.5	26.3	23.2	21.1	19.9	18.5	18.2
85°	12.6	13.7	14.6	15.0	14.6	13.2	11.8	11.0	9.9	9.3	9.1
87.5°	7.0	6.7	6.5	6.5	5.7	5.4	4.5	3.7	3.8	4.0	3.9
90°	10.3	9.2	8.0	6.7	5.2	3.7	2.1	0.6	2.1	3.7	5.2
92.5°	13.4	12.8	12.3	12.0	12.2	12.3	12.5	12.6	12.5	12.3	12.2
95°	22.4	21.4	20.4	22.3	26.8	31.4	36.0	40.6	36.0	31.4	26.8
97.5°	28.1	25.9	23.6	28.9	41.8	54.8	67.6	80.5	67.6	54.8	41.8
100°	30.9	28.5	26.1	34.5	53.5	72.5	91.5	110.5	91.5	72.5	53.5
102.5°	76.1	95.8	115.5	127.3	131.3	135.4	139.5	143.5	139.5	135.4	131.3
105°	113.8	151.7	189.6	206.4	202.2	198.1	193.9	189.8	193.9	198.1	202.2
107.5°	144.2	189.6	235.0	256.0	252.6	249.3	245.9	242.5	245.9	249.3	252.6
110°	189.4	229.5	269.6	288.2	285.3	282.4	279.5	276.5	279.5	282.4	285.3



TEST NUMBER: P331471-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	295.3	305.2	315.1	318.8	316.2	313.7	311.1	308.5	311.1	313.7	316.2
115°	378.3	374.8	371.3	368.4	366.0	363.6	361.3	358.9	361.3	363.6	366.0
117.5°	421.9	419.5	417.1	414.6	411.9	409.3	406.6	404.0	406.6	409.3	411.9
120°	452.5	450.0	447.5	445.3	443.2	441.1	439.1	436.9	439.1	441.1	443.2
122.5°	481.6	478.8	476.2	473.7	471.5	469.3	467.2	464.9	467.2	469.3	471.5
125°	522.2	519.6	516.9	514.7	512.9	511.1	509.3	507.5	509.3	511.1	512.9
127.5°	560.0	558.0	556.1	554.1	552.1	550.1	548.0	546.1	548.0	550.1	552.1
130°	584.3	582.8	581.3	579.4	577.2	575.0	572.7	570.5	572.7	575.0	577.2
132.5°	607.8	606.3	604.8	603.1	601.2	599.3	597.4	595.6	597.4	599.3	601.2
135°	641.1	639.9	638.6	636.9	634.6	632.4	630.2	628.0	630.2	632.4	634.6
137.5°	671.4	669.9	668.5	667.0	665.5	664.0	662.4	660.8	662.4	664.0	665.5
140°	691.1	689.6	688.0	686.7	685.6	684.5	683.4	682.3	683.4	684.5	685.6
142.5°	709.2	707.4	705.6	704.3	703.3	702.3	701.2	700.3	701.2	702.3	703.3
145°	733.8	731.4	729.1	727.9	728.1	728.3	728.3	728.5	728.3	728.3	728.1
147.5°	756.5	754.2	751.9	751.0	751.5	752.1	752.6	753.0	752.6	752.1	751.5
150°	770.3	768.0	765.8	765.2	766.2	767.1	768.1	769.1	768.1	767.1	766.2
152.5°	782.9	780.9	778.7	778.2	779.3	780.4	781.5	782.6	781.5	780.4	779.3
155°	800.7	799.1	797.4	797.2	798.4	799.7	800.9	802.2	800.9	799.7	798.4
157.5°	815.6	814.5	813.3	813.3	814.3	815.4	816.5	817.5	816.5	815.4	814.3
160°	824.8	824.0	823.1	823.1	824.0	824.8	825.6	826.5	825.6	824.8	824.0
162.5°	832.6	831.8	831.1	831.2	832.0	832.9	833.7	834.5	833.7	832.9	832.0
165°	842.5	842.1	841.7	841.9	842.8	843.6	844.4	845.3	844.4	843.6	842.8
167.5°	850.4	850.1	849.7	849.9	850.7	851.6	852.4	853.2	852.4	851.6	850.7
170°	854.7	854.3	854.1	854.3	855.2	856.0	856.8	857.7	856.8	856.0	855.2
172.5°	857.6	857.4	857.1	857.4	858.2	859.1	859.9	860.7	859.9	859.1	858.2
175°	860.9	860.6	860.3	860.7	861.7	862.6	863.6	864.6	863.6	862.6	861.7
177.5°	862.0	861.8	861.7	862.1	862.9	863.6	864.4	865.2	864.4	863.6	862.9
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



TEST NUMBER: P331471-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	520.1	519.2	515.8	514.0	511.0	508.3	506.5	507.3	507.9	507.7	507.1
5°	505.2	501.3	495.4	490.4	486.8	480.1	477.2	475.8	474.6	473.2	471.8
7.5°	487.4	481.3	473.0	465.7	459.0	450.6	445.9	443.1	440.1	436.9	434.1
10°	474.8	466.3	457.4	447.3	439.2	431.7	425.0	420.5	416.4	412.6	409.8
12.5°	461.5	451.7	440.7	426.9	417.9	407.2	406.2	398.3	392.0	389.6	386.3
15°	440.4	426.6	412.6	396.2	389.1	379.4	373.4	367.2	361.8	357.9	357.0
17.5°	416.3	398.5	384.6	372.8	361.2	351.2	345.6	340.8	336.3	331.2	330.5
20°	398.1	382.6	367.5	357.1	345.2	335.0	328.1	323.3	319.4	316.4	313.8
22.5°	380.7	363.8	349.9	338.7	326.9	318.7	313.3	308.5	305.3	302.0	299.5
25°	352.8	339.7	324.5	311.7	302.0	296.8	292.3	288.3	286.2	284.0	281.2
27.5°	328.5	313.9	299.7	289.8	281.2	276.6	273.4	270.6	268.8	267.4	265.8
30°	311.4	296.6	285.4	275.7	268.6	263.9	261.9	260.3	258.1	257.3	256.5
32.5°	294.8	281.5	272.0	263.5	256.8	253.7	251.9	250.4	248.7	247.9	246.2
35°	271.4	260.3	251.0	246.3	240.9	238.2	236.8	234.8	233.2	232.4	232.1
37.5°	249.4	239.8	233.6	227.7	225.3	223.7	221.8	220.4	219.9	219.8	219.5
40°	235.1	227.3	221.8	217.0	216.0	213.5	211.9	210.7	210.7	210.9	210.7
42.5°	222.2	215.1	210.3	206.1	204.9	203.5	201.8	201.8	202.1	202.8	202.1
45°	202.6	197.5	194.0	192.1	189.8	188.4	188.2	188.8	189.0	189.2	189.8
47.5°	184.5	181.1	178.0	175.8	174.8	174.6	174.3	175.4	176.4	176.7	177.6
50°	173.8	170.0	167.3	165.9	165.1	164.7	165.1	166.3	167.1	168.1	168.7
52.5°	161.8	159.1	157.3	156.1	155.9	156.1	156.1	157.6	158.8	159.3	159.5
55°	145.3	143.2	142.9	141.0	141.8	141.6	142.6	143.4	144.6	145.9	146.1
57.5°	128.7	127.1	126.0	126.2	126.4	127.3	128.1	129.6	130.8	132.2	132.2
60°	117.7	116.9	116.3	116.3	116.6	117.9	118.9	120.3	121.1	122.0	122.5
62.5°	107.6	106.8	106.2	106.6	107.6	108.3	109.5	110.3	111.1	111.9	112.2
65°	91.8	91.4	91.9	92.4	92.6	93.5	95.0	95.6	96.4	96.8	98.3
67.5°	77.1	77.2	77.1	77.7	78.9	79.1	80.4	81.9	82.0	82.8	83.7
70°	67.2	67.7	68.0	68.5	69.5	69.9	70.9	71.5	72.3	72.9	73.6
72.5°	58.1	58.2	58.7	58.6	59.5	60.3	61.2	61.8	62.6	63.4	63.9
75°	44.8	44.8	45.2	45.4	46.4	47.4	47.2	47.6	48.4	49.2	49.7
77.5°	32.7	32.3	32.7	32.9	33.3	34.1	34.2	34.8	35.8	35.5	35.9
80°	24.9	24.3	24.9	25.1	25.1	26.1	26.1	26.6	27.1	26.6	27.1
82.5°	17.7	17.5	17.9	18.0	18.3	18.4	18.6	18.7	19.4	19.1	19.4
85°	8.9	8.7	8.9	8.7	8.9	9.1	9.1	8.9	8.9	9.3	8.7
87.5°	4.1	4.2	4.3	4.5	4.5	4.6	4.5	4.7	4.8	4.6	4.7
90°	6.7	8.0	9.2	10.3	11.4	12.5	13.2	13.9	14.5	15.2	15.8
92.5°	12.0	12.3	12.8	13.4	13.9	14.4	14.8	15.2	15.6	16.0	16.2
95°	22.3	20.4	21.4	22.4	23.4	24.3	25.1	25.8	26.4	27.1	27.4
97.5°	28.9	23.6	25.9	28.1	30.3	32.5	33.2	33.7	34.2	34.8	35.1
100°	34.5	26.1	28.5	30.9	33.3	35.6	36.6	37.8	38.9	40.0	40.8
102.5°	127.3	115.5	95.8	76.1	56.3	36.6	38.0	39.5	40.9	42.4	43.2
105°	206.4	189.6	151.7	113.8	76.0	38.1	39.6	41.1	42.6	44.1	45.2
107.5°	256.0	235.0	189.6	144.2	98.7	53.3	51.7	50.2	48.7	47.1	46.6
110°	288.2	269.6	229.5	189.4	149.4	109.2	95.4	81.5	67.6	53.8	47.1



TEST NUMBER: P331471-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	318.8	315.1	305.2	295.3	285.4	275.5	225.0	174.3	123.8	73.1	48.1
115°	368.4	371.3	374.8	378.3	381.7	385.1	320.9	256.7	192.4	128.2	91.1
117.5°	414.6	417.1	419.5	421.9	424.2	426.6	411.1	395.6	380.0	364.4	340.3
120°	445.3	447.5	450.0	452.5	455.0	457.5	459.2	460.9	462.5	464.2	455.7
122.5°	473.7	476.2	478.8	481.6	484.3	487.1	488.0	489.0	490.0	491.1	489.7
125°	514.7	516.9	519.6	522.2	524.9	527.4	528.4	529.4	530.4	531.4	532.1
127.5°	554.1	556.1	558.0	560.0	562.0	563.9	565.3	566.8	568.2	569.6	570.3
130°	579.4	581.3	582.8	584.3	585.9	587.5	589.0	590.5	592.0	593.5	594.2
132.5°	603.1	604.8	606.3	607.8	609.4	610.9	612.2	613.5	614.8	616.1	616.7
135°	636.9	638.6	639.9	641.1	642.4	643.6	645.0	646.4	647.7	649.2	649.7
137.5°	667.0	668.5	669.9	671.4	672.8	674.2	675.6	676.9	678.2	679.7	680.1
140°	686.7	688.0	689.6	691.1	692.6	694.2	695.4	696.7	697.9	699.2	699.5
142.5°	704.3	705.6	707.4	709.2	710.9	712.7	713.8	714.9	716.0	717.2	717.4
145°	727.9	729.1	731.4	733.8	736.1	738.5	739.5	740.4	741.4	742.3	742.5
147.5°	751.0	751.9	754.2	756.5	758.8	761.2	762.0	762.7	763.4	764.1	764.2
150°	765.2	765.8	768.0	770.3	772.5	774.7	775.5	776.3	777.2	778.0	778.1
152.5°	778.2	778.7	780.9	782.9	785.1	787.2	788.0	788.8	789.7	790.5	790.5
155°	797.2	797.4	799.1	800.7	802.4	804.1	804.9	805.7	806.6	807.4	807.2
157.5°	813.3	813.3	814.5	815.6	816.8	818.0	818.9	819.9	820.8	821.8	821.7
160°	823.1	823.1	824.0	824.8	825.6	826.5	827.3	828.1	829.0	829.8	829.7
162.5°	831.2	831.1	831.8	832.6	833.3	834.0	834.9	835.9	836.8	837.8	837.7
165°	841.9	841.7	842.1	842.5	842.9	843.4	844.4	845.3	846.2	847.2	847.2
167.5°	849.9	849.7	850.1	850.4	850.9	851.2	852.2	853.2	854.2	855.1	855.0
170°	854.3	854.1	854.3	854.7	855.0	855.2	856.2	857.2	858.1	859.1	859.0
172.5°	857.4	857.1	857.4	857.6	857.9	858.2	859.2	860.1	861.1	862.1	861.9
175°	860.7	860.3	860.6	860.9	861.2	861.5	862.5	863.4	864.3	865.3	865.1
177.5°	862.1	861.7	861.8	862.0	862.1	862.2	863.0	863.8	864.5	865.3	865.2
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



TEST NUMBER: P331471-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	505.5	505.2	505.2	503.7	505.2	505.2	505.5	507.1	507.7	507.9	507.3
5°	469.0	468.3	467.3	468.3	467.3	468.3	469.0	471.8	473.2	474.6	475.8
7.5°	432.7	430.3	430.0	427.6	430.0	430.3	432.7	434.1	436.9	440.1	443.1
10°	406.4	404.7	404.5	400.6	404.5	404.7	406.4	409.8	412.6	416.4	420.5
12.5°	386.3	382.4	383.2	380.9	383.2	382.4	386.3	386.3	389.6	392.0	398.3
15°	351.4	351.4	350.6	347.2	350.6	351.4	351.4	357.0	357.9	361.8	367.2
17.5°	326.5	326.0	324.1	325.1	324.1	326.0	326.5	330.5	331.2	336.3	340.8
20°	311.6	310.3	307.9	307.9	307.9	310.3	311.6	313.8	316.4	319.4	323.3
22.5°	297.5	297.4	294.8	295.6	294.8	297.4	297.5	299.5	302.0	305.3	308.5
25°	281.0	279.4	278.1	278.7	278.1	279.4	281.0	281.2	284.0	286.2	288.3
27.5°	265.3	264.4	264.3	262.7	264.3	264.4	265.3	265.8	267.4	268.8	270.6
30°	256.3	254.2	254.6	253.6	254.6	254.2	256.3	256.5	257.3	258.1	260.3
32.5°	245.8	245.1	244.8	243.9	244.8	245.1	245.8	246.2	247.9	248.7	250.4
35°	231.8	231.9	231.0	231.3	231.0	231.9	231.8	232.1	232.4	233.2	234.8
37.5°	219.4	220.0	219.5	219.6	219.5	220.0	219.4	219.5	219.8	219.9	220.4
40°	211.2	211.2	211.2	211.9	211.2	211.2	211.2	210.7	210.9	210.7	210.7
42.5°	203.5	203.1	202.9	202.8	202.9	203.1	203.5	202.1	202.8	202.1	201.8
45°	190.2	190.8	191.0	190.0	191.0	190.8	190.2	189.8	189.2	189.0	188.8
47.5°	178.2	178.3	178.2	179.1	178.2	178.3	178.2	177.6	176.7	176.4	175.4
50°	169.8	169.3	169.8	169.3	169.8	169.3	169.8	168.7	168.1	167.1	166.3
52.5°	160.9	161.0	160.7	160.6	160.7	161.0	160.9	159.5	159.3	158.8	157.6
55°	146.9	147.2	147.0	147.0	147.0	147.2	146.9	146.1	145.9	144.6	143.4
57.5°	132.4	132.8	133.0	132.2	133.0	132.8	132.4	132.2	132.2	130.8	129.6
60°	122.3	123.3	123.1	122.8	123.1	123.3	122.3	122.5	122.0	121.1	120.3
62.5°	113.1	113.5	113.4	113.3	113.4	113.5	113.1	112.2	111.9	111.1	110.3
65°	98.9	99.2	98.6	99.2	98.6	99.2	98.9	98.3	96.8	96.4	95.6
67.5°	83.5	83.6	84.1	84.4	84.1	83.6	83.5	83.7	82.8	82.0	81.9
70°	73.9	73.7	74.4	75.0	74.4	73.7	73.9	73.6	72.9	72.3	71.5
72.5°	63.8	64.3	64.1	64.6	64.1	64.3	63.8	63.9	63.4	62.6	61.8
75°	49.2	49.8	49.7	50.2	49.7	49.8	49.2	49.7	49.2	48.4	47.6
77.5°	35.6	35.7	35.6	35.9	35.6	35.7	35.6	35.9	35.5	35.8	34.8
80°	27.1	26.8	26.3	27.1	26.3	26.8	27.1	27.1	26.6	27.1	26.6
82.5°	18.9	19.1	18.7	18.7	18.7	19.1	18.9	19.4	19.1	19.4	18.7
85°	8.7	8.5	8.1	8.1	8.1	8.5	8.7	8.7	9.3	8.9	8.9
87.5°	4.8	4.7	4.8	4.6	4.8	4.7	4.8	4.7	4.6	4.8	4.7
90°	16.1	16.3	16.6	16.9	16.6	16.3	16.1	15.8	15.2	14.5	13.9
92.5°	16.3	16.5	16.7	16.9	16.7	16.5	16.3	16.2	16.0	15.6	15.2
95°	27.3	27.1	27.0	26.8	27.0	27.1	27.3	27.4	27.1	26.4	25.8
97.5°	35.3	35.5	35.7	35.8	35.7	35.5	35.3	35.1	34.8	34.2	33.7
100°	41.0	41.3	41.6	41.8	41.6	41.3	41.0	40.8	40.0	38.9	37.8
102.5°	43.7	44.1	44.4	44.9	44.4	44.1	43.7	43.2	42.4	40.9	39.5
105°	45.7	46.4	46.9	47.4	46.9	46.4	45.7	45.2	44.1	42.6	41.1
107.5°	47.2	47.7	48.2	48.8	48.2	47.7	47.2	46.6	47.1	48.7	50.2
110°	47.6	48.2	48.8	49.3	48.8	48.2	47.6	47.1	53.8	67.6	81.5



TEST NUMBER: P331471-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	48.5	49.0	49.4	49.8	49.4	49.0	48.5	48.1	73.1	123.8	174.3
115°	81.1	71.2	61.2	51.2	61.2	71.2	81.1	91.1	128.2	192.4	256.7
117.5°	307.5	274.6	241.8	209.0	241.8	274.6	307.5	340.3	364.4	380.0	395.6
120°	436.9	418.2	399.5	380.8	399.5	418.2	436.9	455.7	464.2	462.5	460.9
122.5°	486.1	482.4	478.8	475.2	478.8	482.4	486.1	489.7	491.1	490.0	489.0
125°	532.4	532.9	533.3	533.7	533.3	532.9	532.4	532.1	531.4	530.4	529.4
127.5°	570.4	570.5	570.6	570.7	570.6	570.5	570.4	570.3	569.6	568.2	566.8
130°	594.1	594.0	593.8	593.7	593.8	594.0	594.1	594.2	593.5	592.0	590.5
132.5°	616.5	616.4	616.3	616.2	616.3	616.4	616.5	616.7	616.1	614.8	613.5
135°	649.4	649.2	648.9	648.6	648.9	649.2	649.4	649.7	649.2	647.7	646.4
137.5°	679.6	679.1	678.7	678.1	678.7	679.1	679.6	680.1	679.7	678.2	676.9
140°	698.7	698.0	697.3	696.7	697.3	698.0	698.7	699.5	699.2	697.9	696.7
142.5°	716.8	716.0	715.3	714.6	715.3	716.0	716.8	717.4	717.2	716.0	714.9
145°	741.8	741.1	740.4	739.8	740.4	741.1	741.8	742.5	742.3	741.4	740.4
147.5°	763.6	763.0	762.4	761.8	762.4	763.0	763.6	764.2	764.1	763.4	762.7
150°	777.4	776.7	776.0	775.3	776.0	776.7	777.4	778.1	778.0	777.2	776.3
152.5°	789.5	788.6	787.7	786.8	787.7	788.6	789.5	790.5	790.5	789.7	788.8
155°	806.1	805.0	803.9	802.8	803.9	805.0	806.1	807.2	807.4	806.6	805.7
157.5°	820.6	819.6	818.5	817.3	818.5	819.6	820.6	821.7	821.8	820.8	819.9
160°	828.8	827.8	826.9	825.9	826.9	827.8	828.8	829.7	829.8	829.0	828.1
162.5°	836.4	835.3	834.0	832.9	834.0	835.3	836.4	837.7	837.8	836.8	835.9
165°	846.2	845.3	844.4	843.4	844.4	845.3	846.2	847.2	847.2	846.2	845.3
167.5°	853.7	852.5	851.2	850.0	851.2	852.5	853.7	855.0	855.1	854.2	853.2
170°	857.7	856.5	855.2	854.0	855.2	856.5	857.7	859.0	859.1	858.1	857.2
172.5°	860.7	859.4	858.2	856.9	858.2	859.4	860.7	861.9	862.1	861.1	860.1
175°	863.7	862.4	860.9	859.6	860.9	862.4	863.7	865.1	865.3	864.3	863.4
177.5°	864.2	863.2	862.2	861.2	862.2	863.2	864.2	865.2	865.3	864.5	863.8
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



TEST NUMBER: P331471-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	506.5	508.3	511.0	514.0	515.8	519.2	520.1	521.7	523.2	526.6	530.1
5°	477.2	480.1	486.8	490.4	495.4	501.3	505.2	509.3	513.7	521.4	528.5
7.5°	445.9	450.6	459.0	465.7	473.0	481.3	487.4	495.4	502.1	513.0	523.3
10°	425.0	431.7	439.2	447.3	457.4	466.3	474.8	484.9	493.0	506.0	518.2
12.5°	406.2	407.2	417.9	426.9	440.7	451.7	461.5	474.6	482.5	497.9	510.7
15°	373.4	379.4	389.1	396.2	412.6	426.6	440.4	454.0	463.1	482.1	498.9
17.5°	345.6	351.2	361.2	372.8	384.6	398.5	416.3	430.7	443.1	464.8	484.7
20°	328.1	335.0	345.2	357.1	367.5	382.6	398.1	414.5	427.8	452.4	475.6
22.5°	313.3	318.7	326.9	338.7	349.9	363.8	380.7	398.6	412.6	439.1	462.6
25°	292.3	296.8	302.0	311.7	324.5	339.7	352.8	372.6	393.0	417.7	446.2
27.5°	273.4	276.6	281.2	289.8	299.7	313.9	328.5	347.1	367.7	394.6	424.7
30°	261.9	263.9	268.6	275.7	285.4	296.6	311.4	329.1	350.3	377.4	407.3
32.5°	251.9	253.7	256.8	263.5	272.0	281.5	294.8	312.6	332.7	359.4	392.6
35°	236.8	238.2	240.9	246.3	251.0	260.3	271.4	287.7	306.5	332.0	366.4
37.5°	221.8	223.7	225.3	227.7	233.6	239.8	249.4	263.1	281.6	307.4	340.2
40°	211.9	213.5	216.0	217.0	221.8	227.3	235.1	247.7	266.4	289.9	321.9
42.5°	201.8	203.5	204.9	206.1	210.3	215.1	222.2	233.0	249.5	272.3	304.1
45°	188.2	188.4	189.8	192.1	194.0	197.5	202.6	211.9	224.6	246.1	274.9
47.5°	174.3	174.6	174.8	175.8	178.0	181.1	184.5	192.1	203.5	220.6	248.6
50°	165.1	164.7	165.1	165.9	167.3	170.0	173.8	179.2	188.6	204.6	230.3
52.5°	156.1	156.1	155.9	156.1	157.3	159.1	161.8	166.5	174.8	189.5	212.1
55°	142.6	141.6	141.8	141.0	142.9	143.2	145.3	149.1	156.4	166.5	187.8
57.5°	128.1	127.3	126.4	126.2	126.0	127.1	128.7	131.7	137.3	146.2	163.5
60°	118.9	117.9	116.6	116.3	116.3	116.9	117.7	119.9	125.2	133.0	147.2
62.5°	109.5	108.3	107.6	106.6	106.2	106.8	107.6	109.2	113.1	120.5	132.7
65°	95.0	93.5	92.6	92.4	91.9	91.4	91.8	93.4	96.4	102.3	112.0
67.5°	80.4	79.1	78.9	77.7	77.1	77.2	77.1	78.5	80.3	85.4	92.6
70°	70.9	69.9	69.5	68.5	68.0	67.7	67.2	68.5	70.3	74.5	80.8
72.5°	61.2	60.3	59.5	58.6	58.7	58.2	58.1	58.9	60.4	64.3	69.2
75°	47.2	47.4	46.4	45.4	45.2	44.8	44.8	45.4	46.0	49.0	52.9
77.5°	34.2	34.1	33.3	32.9	32.7	32.3	32.7	33.1	33.4	35.5	38.3
80°	26.1	26.1	25.1	25.1	24.9	24.3	24.9	24.5	25.3	27.4	29.3
82.5°	18.6	18.4	18.3	18.0	17.9	17.5	17.7	18.2	18.5	19.9	21.1
85°	9.1	9.1	8.9	8.7	8.9	8.7	8.9	9.1	9.3	9.9	11.0
87.5°	4.5	4.6	4.5	4.5	4.3	4.2	4.1	3.9	4.0	3.8	3.7
90°	13.2	12.5	11.4	10.3	9.2	8.0	6.7	5.2	3.7	2.1	0.6
92.5°	14.8	14.4	13.9	13.4	12.8	12.3	12.0	12.2	12.3	12.5	12.6
95°	25.1	24.3	23.4	22.4	21.4	20.4	22.3	26.8	31.4	36.0	40.6
97.5°	33.2	32.5	30.3	28.1	25.9	23.6	28.9	41.8	54.8	67.6	80.5
100°	36.6	35.6	33.3	30.9	28.5	26.1	34.5	53.5	72.5	91.5	110.5
102.5°	38.0	36.6	56.3	76.1	95.8	115.5	127.3	131.3	135.4	139.5	143.5
105°	39.6	38.1	76.0	113.8	151.7	189.6	206.4	202.2	198.1	193.9	189.8
107.5°	51.7	53.3	98.7	144.2	189.6	235.0	256.0	252.6	249.3	245.9	242.5
110°	95.4	109.2	149.4	189.4	229.5	269.6	288.2	285.3	282.4	279.5	276.5



TEST NUMBER: P331471-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	225.0	275.5	285.4	295.3	305.2	315.1	318.8	316.2	313.7	311.1	308.5
115°	320.9	385.1	381.7	378.3	374.8	371.3	368.4	366.0	363.6	361.3	358.9
117.5°	411.1	426.6	424.2	421.9	419.5	417.1	414.6	411.9	409.3	406.6	404.0
120°	459.2	457.5	455.0	452.5	450.0	447.5	445.3	443.2	441.1	439.1	436.9
122.5°	488.0	487.1	484.3	481.6	478.8	476.2	473.7	471.5	469.3	467.2	464.9
125°	528.4	527.4	524.9	522.2	519.6	516.9	514.7	512.9	511.1	509.3	507.5
127.5°	565.3	563.9	562.0	560.0	558.0	556.1	554.1	552.1	550.1	548.0	546.1
130°	589.0	587.5	585.9	584.3	582.8	581.3	579.4	577.2	575.0	572.7	570.5
132.5°	612.2	610.9	609.4	607.8	606.3	604.8	603.1	601.2	599.3	597.4	595.6
135°	645.0	643.6	642.4	641.1	639.9	638.6	636.9	634.6	632.4	630.2	628.0
137.5°	675.6	674.2	672.8	671.4	669.9	668.5	667.0	665.5	664.0	662.4	660.8
140°	695.4	694.2	692.6	691.1	689.6	688.0	686.7	685.6	684.5	683.4	682.3
142.5°	713.8	712.7	710.9	709.2	707.4	705.6	704.3	703.3	702.3	701.2	700.3
145°	739.5	738.5	736.1	733.8	731.4	729.1	727.9	728.1	728.3	728.3	728.5
147.5°	762.0	761.2	758.8	756.5	754.2	751.9	751.0	751.5	752.1	752.6	753.0
150°	775.5	774.7	772.5	770.3	768.0	765.8	765.2	766.2	767.1	768.1	769.1
152.5°	788.0	787.2	785.1	782.9	780.9	778.7	778.2	779.3	780.4	781.5	782.6
155°	804.9	804.1	802.4	800.7	799.1	797.4	797.2	798.4	799.7	800.9	802.2
157.5°	818.9	818.0	816.8	815.6	814.5	813.3	813.3	814.3	815.4	816.5	817.5
160°	827.3	826.5	825.6	824.8	824.0	823.1	823.1	824.0	824.8	825.6	826.5
162.5°	834.9	834.0	833.3	832.6	831.8	831.1	831.2	832.0	832.9	833.7	834.5
165°	844.4	843.4	842.9	842.5	842.1	841.7	841.9	842.8	843.6	844.4	845.3
167.5°	852.2	851.2	850.9	850.4	850.1	849.7	849.9	850.7	851.6	852.4	853.2
170°	856.2	855.2	855.0	854.7	854.3	854.1	854.3	855.2	856.0	856.8	857.7
172.5°	859.2	858.2	857.9	857.6	857.4	857.1	857.4	858.2	859.1	859.9	860.7
175°	862.5	861.5	861.2	860.9	860.6	860.3	860.7	861.7	862.6	863.6	864.6
177.5°	863.0	862.2	862.1	862.0	861.8	861.7	862.1	862.9	863.6	864.4	865.2
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



TEST NUMBER: P331471-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	529.9	530.7	533.2	535.8	538.8	539.6	540.8	539.8	539.4	542.4	544.7
5°	531.4	534.9	542.1	548.6	554.0	557.9	562.0	563.6	566.6	570.8	576.1
7.5°	529.6	536.7	547.9	557.3	567.6	575.0	580.8	585.8	591.7	599.8	608.6
10°	527.7	537.2	550.8	562.3	574.9	584.4	592.3	600.0	608.9	620.1	631.6
12.5°	524.1	535.4	552.4	566.1	582.2	591.6	602.2	618.8	628.4	643.9	660.1
15°	516.9	529.5	553.2	570.0	588.3	606.1	625.7	641.5	657.3	666.5	689.3
17.5°	506.3	524.7	551.0	570.6	593.8	621.8	643.9	661.8	680.0	694.8	706.3
20°	497.7	517.7	547.8	571.2	598.8	628.9	654.2	672.5	688.3	700.7	707.8
22.5°	486.9	512.1	541.3	568.8	604.0	633.8	660.4	674.8	688.0	694.0	696.8
25°	469.8	500.2	533.2	566.8	606.5	638.1	662.4	671.1	674.9	669.1	659.3
27.5°	451.3	485.2	523.8	562.9	604.9	635.3	652.7	651.4	644.9	625.8	610.6
30°	437.6	474.8	516.3	559.1	601.2	630.8	640.9	630.8	616.0	594.8	573.0
32.5°	423.1	461.7	508.4	553.6	594.4	620.5	622.6	605.2	582.3	558.1	531.1
35°	401.3	443.0	493.5	541.3	580.0	596.4	586.7	555.8	528.7	495.7	458.8
37.5°	376.6	422.7	473.2	523.3	558.3	562.6	538.4	506.0	467.7	428.9	385.5
40°	358.1	407.0	459.1	509.4	540.5	536.0	505.2	469.6	424.0	376.6	336.3
42.5°	341.6	390.4	443.4	492.9	517.7	505.5	469.6	425.8	376.8	332.2	295.2
45°	313.0	363.2	417.5	465.3	479.5	457.4	409.8	361.1	313.0	275.7	246.6
47.5°	285.2	334.8	388.6	430.6	435.6	405.9	353.9	303.9	262.4	232.1	211.5
50°	264.7	314.6	367.8	405.4	403.7	367.8	314.4	266.8	232.1	207.6	193.9
52.5°	246.5	293.6	344.6	378.8	370.1	331.1	280.0	237.7	209.3	190.1	177.6
55°	217.9	261.5	310.1	337.5	321.6	278.3	235.1	201.2	180.0	165.7	156.0
57.5°	189.7	230.5	272.2	289.0	271.5	231.5	195.6	170.9	155.0	144.4	138.0
60°	172.2	207.9	244.9	259.5	238.6	203.0	174.6	152.6	139.7	131.1	125.4
62.5°	154.7	186.6	221.6	229.5	210.4	180.3	155.2	136.8	126.4	118.6	113.2
65°	130.8	157.0	183.5	188.8	171.2	147.8	128.0	116.1	106.7	101.1	96.8
67.5°	107.4	128.3	147.1	151.3	135.9	119.8	105.4	95.0	88.7	84.0	80.3
70°	93.4	110.0	125.4	128.9	116.5	102.1	91.1	82.8	77.1	73.1	69.6
72.5°	78.6	92.5	105.3	107.6	97.6	86.5	77.6	71.0	66.0	63.4	60.1
75°	60.2	68.3	78.2	78.8	72.1	65.5	58.6	54.3	51.6	48.4	46.8
77.5°	42.4	48.8	54.5	55.6	51.6	47.1	43.2	39.9	37.6	36.1	34.6
80°	32.4	37.5	39.9	41.3	38.5	35.2	33.0	30.8	29.3	28.4	27.4
82.5°	23.2	26.3	28.5	29.7	28.1	26.1	24.0	22.6	21.6	20.8	20.4
85°	11.8	13.2	14.6	15.0	14.6	13.7	12.6	12.6	11.9	11.8	11.8
87.5°	4.5	5.4	5.7	6.5	6.5	6.7	7.0	7.0	7.0	7.0	7.0
90°	2.1	3.7	5.2	6.7	8.0	9.2	10.3	11.4	12.5	13.2	13.9
92.5°	12.5	12.3	12.2	12.0	12.3	12.8	13.4	13.9	14.4	14.8	15.2
95°	36.0	31.4	26.8	22.3	20.4	21.4	22.4	23.4	24.3	25.1	25.8
97.5°	67.6	54.8	41.8	28.9	23.6	25.9	28.1	30.3	32.5	33.2	33.7
100°	91.5	72.5	53.5	34.5	26.1	28.5	30.9	33.3	35.6	36.6	37.8
102.5°	139.5	135.4	131.3	127.3	115.5	95.8	76.1	56.3	36.6	38.0	39.5
105°	193.9	198.1	202.2	206.4	189.6	151.7	113.8	76.0	38.1	39.6	41.1
107.5°	245.9	249.3	252.6	256.0	235.0	189.6	144.2	98.7	53.3	51.7	50.2
110°	279.5	282.4	285.3	288.2	269.6	229.5	189.4	149.4	109.2	95.4	81.5



TEST NUMBER: P331471-940

CATALOG NUMBER: S122DIW-S290D710U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	311.1	313.7	316.2	318.8	315.1	305.2	295.3	285.4	275.5	225.0	174.3
115°	361.3	363.6	366.0	368.4	371.3	374.8	378.3	381.7	385.1	320.9	256.7
117.5°	406.6	409.3	411.9	414.6	417.1	419.5	421.9	424.2	426.6	411.1	395.6
120°	439.1	441.1	443.2	445.3	447.5	450.0	452.5	455.0	457.5	459.2	460.9
122.5°	467.2	469.3	471.5	473.7	476.2	478.8	481.6	484.3	487.1	488.0	489.0
125°	509.3	511.1	512.9	514.7	516.9	519.6	522.2	524.9	527.4	528.4	529.4
127.5°	548.0	550.1	552.1	554.1	556.1	558.0	560.0	562.0	563.9	565.3	566.8
130°	572.7	575.0	577.2	579.4	581.3	582.8	584.3	585.9	587.5	589.0	590.5
132.5°	597.4	599.3	601.2	603.1	604.8	606.3	607.8	609.4	610.9	612.2	613.5
135°	630.2	632.4	634.6	636.9	638.6	639.9	641.1	642.4	643.6	645.0	646.4
137.5°	662.4	664.0	665.5	667.0	668.5	669.9	671.4	672.8	674.2	675.6	676.9
140°	683.4	684.5	685.6	686.7	688.0	689.6	691.1	692.6	694.2	695.4	696.7
142.5°	701.2	702.3	703.3	704.3	705.6	707.4	709.2	710.9	712.7	713.8	714.9
145°	728.3	728.3	728.1	727.9	729.1	731.4	733.8	736.1	738.5	739.5	740.4
147.5°	752.6	752.1	751.5	751.0	751.9	754.2	756.5	758.8	761.2	762.0	762.7
150°	768.1	767.1	766.2	765.2	765.8	768.0	770.3	772.5	774.7	775.5	776.3
152.5°	781.5	780.4	779.3	778.2	778.7	780.9	782.9	785.1	787.2	788.0	788.8
155°	800.9	799.7	798.4	797.2	797.4	799.1	800.7	802.4	804.1	804.9	805.7
157.5°	816.5	815.4	814.3	813.3	813.3	814.5	815.6	816.8	818.0	818.9	819.9
160°	825.6	824.8	824.0	823.1	823.1	824.0	824.8	825.6	826.5	827.3	828.1
162.5°	833.7	832.9	832.0	831.2	831.1	831.8	832.6	833.3	834.0	834.9	835.9
165°	844.4	843.6	842.8	841.9	841.7	842.1	842.5	842.9	843.4	844.4	845.3
167.5°	852.4	851.6	850.7	849.9	849.7	850.1	850.4	850.9	851.2	852.2	853.2
170°	856.8	856.0	855.2	854.3	854.1	854.3	854.7	855.0	855.2	856.2	857.2
172.5°	859.9	859.1	858.2	857.4	857.1	857.4	857.6	857.9	858.2	859.2	860.1
175°	863.6	862.6	861.7	860.7	860.3	860.6	860.9	861.2	861.5	862.5	863.4
177.5°	864.4	863.6	862.9	862.1	861.7	861.8	862.0	862.1	862.2	863.0	863.8
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	546.7	548.9	548.9	549.3	551.9	551.5	551.3
5°	581.8	585.2	585.6	589.2	591.7	590.8	588.6
7.5°	614.8	621.3	626.2	628.8	632.0	634.0	633.1
10°	641.1	650.4	656.1	660.0	664.6	668.1	666.8
12.5°	664.9	676.0	683.9	690.5	691.0	695.4	692.4
15°	702.1	713.8	715.1	719.9	723.8	723.4	723.5
17.5°	714.3	718.1	718.9	719.0	719.1	717.6	714.5
20°	710.0	708.6	705.2	702.5	697.9	697.2	693.2
22.5°	689.2	684.7	676.1	670.4	663.2	661.3	660.1
25°	648.5	638.5	624.7	611.5	607.9	600.8	602.8
27.5°	592.4	576.9	562.0	551.3	541.6	531.0	534.0
30°	553.0	535.6	514.5	498.3	487.9	477.9	476.0
32.5°	506.0	480.5	457.0	442.7	426.9	420.4	413.5
35°	425.0	400.0	376.7	356.7	345.2	336.3	328.1
37.5°	352.1	323.4	304.6	288.4	280.0	274.9	276.3
40°	306.9	281.8	268.0	255.7	247.9	244.3	245.1
42.5°	270.3	251.5	240.1	231.7	226.2	224.2	223.7
45°	228.7	218.2	208.8	204.0	201.3	199.1	197.7
47.5°	200.4	191.7	186.5	183.6	181.3	179.1	179.0
50°	183.3	177.6	174.0	170.9	169.2	167.6	169.0
52.5°	170.3	165.1	161.5	158.8	158.1	156.7	156.6
55°	151.1	147.0	144.5	142.0	140.8	140.0	138.9
57.5°	133.6	129.7	127.3	125.8	123.5	122.7	122.3
60°	121.1	118.1	115.7	113.6	112.6	111.0	111.0
62.5°	109.6	106.6	104.3	102.8	101.1	100.5	100.7
65°	93.0	90.5	88.3	86.7	86.3	85.1	85.5
67.5°	77.7	76.1	73.7	72.8	72.1	71.4	70.9
70°	67.4	65.8	64.6	63.4	62.8	62.8	62.8
72.5°	58.9	56.9	56.2	54.7	55.0	54.4	53.7
75°	45.6	44.3	43.8	43.2	42.2	42.2	42.2
77.5°	33.5	33.2	32.5	31.8	31.6	31.4	31.5
80°	25.9	25.7	25.3	25.3	24.9	24.7	24.3
82.5°	20.0	19.4	19.2	19.0	18.9	18.9	18.8
85°	11.3	11.0	11.0	11.1	10.7	10.7	11.0
87.5°	7.3	7.4	7.4	7.4	7.7	7.5	7.6
90°	14.5	15.2	15.8	16.1	16.3	16.6	16.9
92.5°	15.6	16.0	16.2	16.3	16.5	16.7	16.9
95°	26.4	27.1	27.4	27.3	27.1	27.0	26.8
97.5°	34.2	34.8	35.1	35.3	35.5	35.7	35.8
100°	38.9	40.0	40.8	41.0	41.3	41.6	41.8
102.5°	40.9	42.4	43.2	43.7	44.1	44.4	44.9
105°	42.6	44.1	45.2	45.7	46.4	46.9	47.4
107.5°	48.7	47.1	46.6	47.2	47.7	48.2	48.8
110°	67.6	53.8	47.1	47.6	48.2	48.8	49.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	123.8	73.1	48.1	48.5	49.0	49.4	49.8
115°	192.4	128.2	91.1	81.1	71.2	61.2	51.2
117.5°	380.0	364.4	340.3	307.5	274.6	241.8	209.0
120°	462.5	464.2	455.7	436.9	418.2	399.5	380.8
122.5°	490.0	491.1	489.7	486.1	482.4	478.8	475.2
125°	530.4	531.4	532.1	532.4	532.9	533.3	533.7
127.5°	568.2	569.6	570.3	570.4	570.5	570.6	570.7
130°	592.0	593.5	594.2	594.1	594.0	593.8	593.7
132.5°	614.8	616.1	616.7	616.5	616.4	616.3	616.2
135°	647.7	649.2	649.7	649.4	649.2	648.9	648.6
137.5°	678.2	679.7	680.1	679.6	679.1	678.7	678.1
140°	697.9	699.2	699.5	698.7	698.0	697.3	696.7
142.5°	716.0	717.2	717.4	716.8	716.0	715.3	714.6
145°	741.4	742.3	742.5	741.8	741.1	740.4	739.8
147.5°	763.4	764.1	764.2	763.6	763.0	762.4	761.8
150°	777.2	778.0	778.1	777.4	776.7	776.0	775.3
152.5°	789.7	790.5	790.5	789.5	788.6	787.7	786.8
155°	806.6	807.4	807.2	806.1	805.0	803.9	802.8
157.5°	820.8	821.8	821.7	820.6	819.6	818.5	817.3
160°	829.0	829.8	829.7	828.8	827.8	826.9	825.9
162.5°	836.8	837.8	837.7	836.4	835.3	834.0	832.9
165°	846.2	847.2	847.2	846.2	845.3	844.4	843.4
167.5°	854.2	855.1	855.0	853.7	852.5	851.2	850.0
170°	858.1	859.1	859.0	857.7	856.5	855.2	854.0
172.5°	861.1	862.1	861.9	860.7	859.4	858.2	856.9
175°	864.3	865.3	865.1	863.7	862.4	860.9	859.6
177.5°	864.5	865.3	865.2	864.2	863.2	862.2	861.2
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7

(END OF REPORT)