

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: P331770-927

Luminaire Tested: **S122RDIW-S290D710U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331770-927
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-S290D710U927-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 710 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2845.6 lumens
Efficiency: N/A
Efficacy: 93.6 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

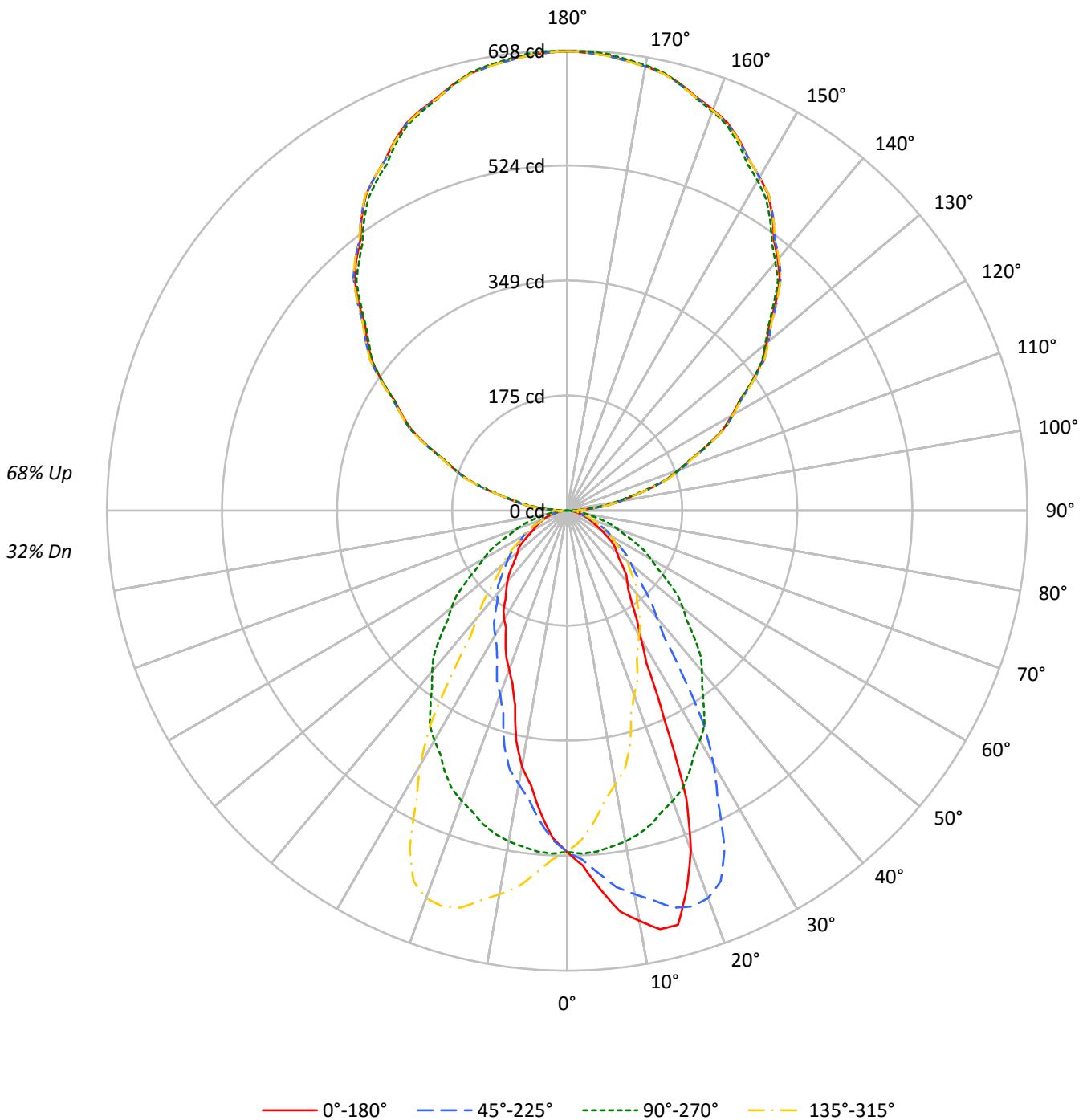
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	85	81	78	75	65	63	61	49	48	47	35	35	34	27
2	86	79	74	69	77	72	67	63	57	54	51	44	42	40	32	30	29	24
3	79	70	63	58	71	63	58	53	51	47	44	39	37	34	29	27	26	21
4	72	62	55	49	65	56	50	45	46	41	37	35	32	30	26	24	23	18
5	67	56	48	42	60	51	44	39	41	36	33	32	29	26	24	22	20	16
6	61	50	42	37	55	46	39	34	37	32	29	29	26	23	22	20	18	15
7	57	45	38	33	51	41	35	30	34	29	25	27	23	21	20	18	16	13
8	53	41	34	29	48	38	31	27	31	26	23	24	21	19	18	16	15	12
9	49	38	31	26	44	34	28	24	28	24	20	23	19	17	17	15	13	11
10	46	35	28	23	41	32	26	22	26	22	18	21	18	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8360	8360	8360	8360
5°	9339	8413	7460	8413
10°	10362	8355	6466	8355
15°	10870	8232	5095	8232
20°	9424	8052	4409	8052
25°	6180	7803	3935	7803
30°	4161	7500	3563	7500
35°	3370	7121	3213	7121
40°	2995	6709	2974	6709
45°	2710	6224	2653	6224
50°	2467	5745	2459	5745
55°	2320	5210	2291	5210
60°	1941	4724	1918	4724
65°	1639	4290	1857	4290
70°	1511	3829	1751	3829
75°	1416	3337	1616	3337
80°	1302	2743	1432	2743
85°	1204	2167	1260	2167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	1.7
10°-20°	136.8	4.8
20°-30°	176.3	6.2
30°-40°	167.5	5.9
40°-50°	143.5	5.0
50°-60°	109.3	3.8
60°-70°	69.1	2.4
70°-80°	34.5	1.2
80°-90°	11.8	0.4
90°-100°	44.1	1.6
100°-110°	137.1	4.8
110°-120°	234.3	8.2
120°-130°	308.1	10.8
130°-140°	345.9	12.2
140°-150°	339.1	11.9
150°-160°	284.5	10.0
160°-170°	188.7	6.6
170°-180°	65.9	2.3
0°-30°	362.2	12.7
0°-40°	529.7	18.6
0°-60°	782.5	27.5
0°-90°	897.8	31.6
90°-120°	415.5	14.6
90°-150°	1408.7	49.5
90°-180°	1948.0	68.5
0°-180°	2845.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	518	518	518	518	518	
5°	576	519	460	519	576	57
15°	650	492	305	492	650	175
25°	347	438	221	438	347	165
35°	171	361	163	361	171	109
45°	119	273	116	273	119	92
55°	82	185	81	185	82	72
65°	43	112	49	112	43	44
75°	23	54	26	54	23	24
85°	6	12	7	12	6	7
90°	20	1	20	1	20	9
95°	36	31	36	31	36	41
105°	130	126	130	126	130	137
115°	235	235	235	235	235	232
125°	343	342	343	342	343	306
135°	448	443	448	443	448	345
145°	543	537	543	537	543	339
155°	619	614	619	614	619	285
165°	669	668	669	668	669	189
175°	693	695	693	695	693	66
180°	697	697	697	697	697	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	538.9	539.3	539.8	538.8	538.8	537.9	536.0	534.6	530.5	530.0	530.0
5°	576.2	575.8	576.6	574.2	571.0	570.2	566.8	562.3	557.6	552.5	551.4
7.5°	613.2	612.7	611.2	610.9	608.4	602.9	597.5	591.6	583.8	576.2	572.4
10°	632.0	637.9	634.3	628.0	629.2	620.8	616.3	608.6	602.1	590.7	588.3
12.5°	650.4	652.8	651.6	648.0	646.4	640.6	634.5	627.7	615.8	605.6	596.8
15°	650.3	653.7	654.7	653.6	654.4	654.1	650.9	645.3	634.9	623.7	613.9
17.5°	602.3	604.7	610.6	614.6	619.6	630.3	635.6	637.5	636.0	629.6	622.8
20°	548.5	544.5	561.1	569.5	576.7	594.7	610.2	616.2	625.7	625.5	623.7
22.5°	472.1	473.1	488.8	498.8	519.8	537.9	555.5	577.8	596.3	608.5	615.6
25°	346.9	353.8	369.4	383.1	406.5	440.0	470.4	505.6	538.9	565.2	590.3
27.5°	260.5	261.1	273.5	286.1	300.0	327.4	365.8	407.8	455.3	494.5	539.5
30°	223.2	222.0	227.3	235.0	246.9	268.2	296.9	338.3	385.6	444.7	497.2
32.5°	196.6	196.7	200.7	206.4	216.2	230.5	250.3	283.9	328.6	386.7	448.2
35°	171.0	170.8	173.6	177.8	181.9	191.1	204.6	222.2	253.0	307.1	370.1
37.5°	152.5	153.3	154.7	157.3	161.8	167.0	175.1	187.0	208.8	240.9	293.8
40°	142.1	142.5	144.5	146.6	149.3	153.3	159.9	169.5	185.5	211.0	249.8
42.5°	132.7	133.0	134.4	136.4	138.6	142.5	148.1	156.3	169.3	189.2	221.1
45°	118.7	118.7	120.0	120.9	123.3	126.8	131.3	138.2	147.2	161.9	183.2
47.5°	105.8	105.8	106.6	108.1	109.6	112.4	116.8	122.5	129.0	140.4	158.5
50°	98.2	98.5	98.9	100.2	101.2	103.6	107.1	111.9	118.7	127.6	142.7
52.5°	92.2	92.1	92.8	93.3	94.0	95.7	98.3	102.6	108.7	116.4	128.9
55°	82.4	81.7	82.8	83.7	84.2	84.9	86.3	89.0	94.3	100.8	110.1
57.5°	70.2	69.9	70.7	71.5	73.2	75.1	76.4	78.0	80.7	85.4	94.7
60°	60.1	60.1	61.7	62.3	64.2	66.8	69.3	70.7	73.4	76.4	83.3
62.5°	51.2	51.3	52.0	52.6	53.7	56.8	60.4	63.5	66.1	69.0	73.5
65°	42.9	43.2	43.2	43.6	44.3	45.0	46.4	49.0	53.5	57.6	61.0
67.5°	36.4	36.4	36.6	36.9	37.1	37.9	38.5	39.6	40.6	44.5	48.8
70°	32.0	32.6	32.4	32.7	33.0	33.3	34.0	34.5	36.2	37.1	39.6
72.5°	28.0	28.4	28.4	28.6	29.1	29.2	29.7	30.3	31.3	32.0	33.4
75°	22.7	22.5	22.7	23.1	23.2	23.4	23.4	24.1	24.6	25.3	26.3
77.5°	17.5	17.7	17.7	17.7	17.7	18.1	18.0	18.3	18.9	19.3	19.6
80°	14.0	14.2	14.0	14.2	14.4	14.6	14.4	14.6	15.1	15.4	15.4
82.5°	10.9	10.9	11.0	11.0	11.1	11.1	11.4	11.4	11.8	11.7	11.9
85°	6.5	6.3	6.3	6.3	6.5	6.7	6.5	6.5	6.7	6.7	6.7
87.5°	6.3	6.4	6.4	6.3	6.3	6.3	6.4	6.6	6.5	6.7	6.0
90°	20.0	19.9	19.7	19.6	19.5	19.6	19.8	20.0	20.3	20.6	17.7
92.5°	19.0	19.0	19.0	18.9	18.9	18.9	18.9	18.8	18.8	18.7	18.0
95°	36.4	36.7	37.0	37.2	37.5	37.6	37.6	37.6	37.6	37.6	37.4
97.5°	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	62.7
100°	80.6	80.6	80.8	81.0	81.0	81.1	81.1	81.1	81.1	81.1	80.7
102.5°	100.3	100.4	100.5	100.7	100.8	100.8	100.7	100.6	100.5	100.4	99.9
105°	130.5	130.5	130.5	130.5	130.5	130.4	130.1	129.8	129.6	129.4	129.0
107.5°	159.0	159.5	160.2	160.7	161.4	161.6	161.5	161.4	161.3	161.2	161.2
110°	181.1	181.4	181.8	182.2	182.6	182.8	182.8	182.8	182.8	182.8	182.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	202.2	202.5	202.8	203.1	203.4	203.7	204.0	204.3	204.6	204.9	205.0
115°	235.1	235.5	235.9	236.3	236.7	236.9	237.1	237.3	237.3	237.5	237.7
117.5°	266.5	266.9	267.3	267.7	268.1	268.5	268.8	269.1	269.4	269.7	270.5
120°	288.6	289.0	289.4	289.8	290.2	290.4	290.4	290.4	290.4	290.4	291.4
122.5°	310.3	310.5	310.9	311.1	311.4	311.7	312.0	312.4	312.7	313.0	313.7
125°	343.3	343.4	343.6	343.7	343.8	344.0	344.4	344.8	345.2	345.6	346.0
127.5°	373.4	373.8	374.2	374.6	375.1	375.5	376.0	376.4	376.9	377.4	377.9
130°	395.1	395.5	396.1	396.6	397.1	397.5	397.8	398.1	398.3	398.5	398.8
132.5°	415.7	416.1	416.5	417.0	417.4	417.9	418.4	419.1	419.6	420.2	420.2
135°	447.9	448.3	448.7	449.1	449.5	449.8	449.9	450.0	450.1	450.3	450.0
137.5°	477.1	477.6	478.2	478.6	479.2	479.5	479.6	479.7	479.8	479.9	479.6
140°	497.3	497.8	498.4	498.9	499.4	499.6	499.6	499.6	499.6	499.6	499.0
142.5°	515.6	516.2	516.7	517.2	517.8	517.9	517.8	517.8	517.6	517.5	517.1
145°	543.2	543.7	544.2	544.7	545.3	545.4	545.3	545.2	545.0	544.9	544.2
147.5°	567.8	568.2	568.7	569.3	569.7	569.8	569.5	569.3	568.9	568.7	568.2
150°	583.8	584.2	584.5	584.9	585.3	585.3	584.9	584.5	584.2	583.8	583.2
152.5°	598.8	599.3	599.8	600.2	600.8	600.8	600.2	599.8	599.3	598.8	598.2
155°	619.0	619.4	619.8	620.2	620.6	620.4	619.8	619.1	618.5	617.8	617.4
157.5°	636.4	637.0	637.6	638.3	638.9	638.7	637.9	637.0	636.1	635.3	635.0
160°	647.2	647.8	648.2	648.8	649.3	649.2	648.4	647.6	646.8	646.0	645.9
162.5°	656.6	657.3	657.9	658.5	659.1	659.0	658.1	657.2	656.3	655.5	655.3
165°	669.0	669.6	670.3	670.9	671.6	671.5	670.5	669.6	668.7	667.8	667.8
167.5°	679.1	679.8	680.4	681.1	681.8	681.7	680.7	679.9	678.9	678.0	678.0
170°	684.2	685.0	685.8	686.6	687.4	687.3	686.4	685.5	684.6	683.7	683.8
172.5°	688.5	689.3	690.1	690.9	691.6	691.6	690.6	689.8	688.8	687.9	688.0
175°	693.1	693.9	694.7	695.4	696.2	696.2	695.2	694.3	693.4	692.4	692.8
177.5°	695.1	695.8	696.4	697.0	697.7	697.7	697.0	696.4	695.8	695.1	695.4
180°	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	530.3	529.1	528.1	525.5	524.2	521.3	520.9	520.8	517.1	513.4	512.4
5°	548.5	545.6	541.3	536.2	531.0	525.6	522.0	519.1	511.9	505.1	501.1
7.5°	566.8	560.6	553.2	543.7	535.7	526.8	520.1	514.2	504.0	494.2	487.6
10°	580.5	570.5	560.5	547.4	537.1	527.0	517.7	509.6	498.1	485.1	475.9
12.5°	589.0	577.9	564.3	551.4	538.1	525.3	512.8	502.4	488.9	475.5	464.6
15°	600.5	588.6	572.0	553.7	536.6	519.8	505.5	492.5	474.9	458.8	445.5
17.5°	609.9	593.5	575.8	554.5	534.7	513.5	495.0	478.4	458.8	439.4	423.7
20°	612.9	596.7	576.2	554.9	531.6	506.5	486.6	468.6	447.5	426.4	408.4
22.5°	611.0	598.4	575.6	550.2	526.2	500.1	477.5	456.6	433.2	411.8	390.9
25°	598.3	594.0	572.4	544.7	517.4	487.0	460.8	438.0	411.4	388.3	365.7
27.5°	568.7	578.1	564.7	535.1	504.7	472.1	442.8	416.8	389.1	363.2	340.6
30°	540.2	561.6	555.9	528.5	494.5	462.5	429.5	402.3	372.9	346.2	323.9
32.5°	501.2	536.5	542.2	519.3	484.1	448.9	414.4	387.4	356.6	328.5	306.7
35°	439.0	491.9	516.3	501.7	466.4	428.4	392.8	361.3	330.3	302.7	281.1
37.5°	365.0	437.0	477.5	478.6	446.2	406.7	367.9	336.6	304.9	277.7	254.4
40°	316.9	395.0	447.7	459.4	432.1	389.4	350.1	318.3	287.4	260.7	233.9
42.5°	273.7	351.5	416.3	436.7	414.9	372.6	333.2	299.9	269.8	244.6	217.2
45°	221.3	289.4	360.8	397.1	385.1	345.9	304.3	272.6	244.4	222.6	196.3
47.5°	186.7	234.6	303.8	352.9	352.8	317.0	276.0	245.7	219.5	199.1	177.8
50°	167.0	208.7	267.2	323.0	327.6	297.6	258.7	228.7	204.2	182.8	165.7
52.5°	149.2	183.7	236.2	289.8	303.1	277.0	239.3	211.6	187.8	168.1	153.5
55°	126.1	152.8	192.7	242.7	262.9	244.5	211.0	185.1	165.9	149.3	136.7
57.5°	106.7	126.7	158.8	199.0	222.4	211.0	183.3	162.2	145.8	130.8	120.9
60°	94.5	110.8	138.0	171.7	197.6	189.5	165.9	146.3	132.3	119.3	110.0
62.5°	82.9	97.0	120.3	147.7	171.3	168.0	148.8	132.3	120.0	108.2	100.3
65°	66.8	77.0	95.2	116.6	135.7	137.3	123.4	112.3	101.3	92.0	84.9
67.5°	53.2	59.9	72.6	90.7	105.0	110.1	101.6	93.1	84.4	77.2	71.1
70°	44.8	50.2	59.6	74.1	87.3	92.7	87.8	81.1	73.6	67.7	62.4
72.5°	36.3	41.6	48.5	59.2	70.4	76.3	74.5	69.8	63.7	58.7	53.8
75°	27.3	29.0	33.7	40.9	49.7	54.7	55.9	53.5	48.6	44.8	41.9
77.5°	20.2	21.2	23.4	27.2	33.0	37.5	39.3	39.0	35.6	33.5	30.7
80°	16.2	16.7	17.8	19.4	23.8	28.3	29.5	29.5	27.2	26.3	23.6
82.5°	12.3	12.7	13.4	14.3	16.2	20.2	21.6	21.9	20.4	19.3	17.1
85°	7.1	6.8	7.2	7.8	8.1	9.2	11.3	11.7	11.3	9.9	9.3
87.5°	5.4	5.0	4.4	3.8	3.6	3.5	3.9	4.3	4.0	3.9	4.0
90°	14.8	12.0	9.1	6.9	5.3	3.7	2.1	0.6	2.1	3.7	5.3
92.5°	17.3	16.6	16.0	15.1	13.9	12.8	11.6	10.5	11.6	12.8	13.9
95°	37.1	36.8	36.6	35.8	34.5	33.2	31.8	30.6	31.8	33.2	34.5
97.5°	62.3	61.8	61.2	60.4	59.3	58.1	57.0	55.8	57.0	58.1	59.3
100°	80.3	79.9	79.5	78.8	77.8	76.8	75.7	74.6	75.7	76.8	77.8
102.5°	99.4	98.9	98.4	97.8	96.9	96.1	95.2	94.4	95.2	96.1	96.9
105°	128.8	128.6	128.3	127.9	127.5	127.1	126.7	126.4	126.7	127.1	127.5
107.5°	161.2	161.2	161.2	160.9	160.3	159.8	159.1	158.6	159.1	159.8	160.3
110°	182.8	182.8	182.8	182.4	181.6	180.9	180.1	179.3	180.1	180.9	181.6



TEST NUMBER: P331770-927

CATALOG NUMBER: S122RDIW-S290D710U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	205.1	205.3	205.3	205.0	204.2	203.4	202.6	201.8	202.6	203.4	204.2
115°	238.0	238.3	238.5	238.3	237.5	236.7	235.9	235.1	235.9	236.7	237.5
117.5°	271.2	271.9	272.6	272.4	271.4	270.4	269.3	268.3	269.3	270.4	271.4
120°	292.5	293.5	294.5	294.5	293.5	292.5	291.4	290.4	291.4	292.5	293.5
122.5°	314.4	315.1	315.9	315.6	314.3	313.1	311.9	310.6	311.9	313.1	314.3
125°	346.4	346.8	347.2	346.8	345.6	344.4	343.3	342.1	343.3	344.4	345.6
127.5°	378.3	378.8	379.3	378.7	377.2	375.8	374.3	372.8	374.3	375.8	377.2
130°	399.1	399.3	399.6	398.9	397.2	395.5	393.8	392.1	393.8	395.5	397.2
132.5°	420.1	420.0	420.0	419.2	417.9	416.5	415.1	413.8	415.1	416.5	417.9
135°	449.8	449.5	449.2	448.4	446.9	445.5	444.1	442.7	444.1	445.5	446.9
137.5°	479.3	478.9	478.6	477.8	476.7	475.5	474.3	473.1	474.3	475.5	476.7
140°	498.4	497.7	497.0	496.1	495.0	493.8	492.6	491.5	492.6	493.8	495.0
142.5°	516.7	516.2	515.8	514.9	513.8	512.6	511.4	510.2	511.4	512.6	513.8
145°	543.4	542.6	541.8	541.0	540.0	539.1	538.2	537.3	538.2	539.1	540.0
147.5°	567.6	567.1	566.6	565.8	564.7	563.6	562.4	561.4	562.4	563.6	564.7
150°	582.7	582.2	581.6	581.0	580.2	579.4	578.6	577.8	578.6	579.4	580.2
152.5°	597.5	596.9	596.3	595.6	594.8	594.0	593.2	592.4	593.2	594.0	594.8
155°	617.0	616.6	616.2	615.8	615.4	615.1	614.7	614.3	614.7	615.1	615.4
157.5°	634.8	634.5	634.3	634.1	633.7	633.5	633.3	633.0	633.3	633.5	633.7
160°	645.8	645.6	645.5	645.3	645.1	644.8	644.5	644.3	644.5	644.8	645.1
162.5°	655.2	655.1	654.9	654.8	654.7	654.7	654.7	654.6	654.7	654.7	654.7
165°	667.8	667.8	667.8	667.9	668.0	668.1	668.2	668.4	668.2	668.1	668.0
167.5°	678.0	678.1	678.1	678.3	678.7	679.1	679.5	679.9	679.5	679.1	678.7
170°	683.9	684.0	684.2	684.4	684.8	685.2	685.6	686.0	685.6	685.2	684.8
172.5°	688.2	688.2	688.4	688.6	689.0	689.4	689.8	690.2	689.8	689.4	689.0
175°	693.0	693.2	693.6	693.9	694.3	694.7	695.1	695.4	695.1	694.7	694.3
177.5°	695.6	695.8	696.0	696.2	696.6	696.9	697.2	697.5	697.2	696.9	696.6
180°	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6



TEST NUMBER: P331770-927

CATALOG NUMBER: S122RDIW-S290D710U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	510.6	509.5	507.6	504.8	503.0	500.0	498.0	499.2	499.5	499.2	498.9
5°	496.9	493.1	487.8	482.8	478.1	473.1	470.2	469.0	466.4	465.0	464.2
7.5°	480.2	473.7	466.4	457.6	450.1	442.3	438.3	436.3	431.2	428.4	426.0
10°	467.9	457.6	450.2	438.7	431.7	421.4	414.4	414.6	407.6	403.6	400.8
12.5°	454.2	442.9	430.6	420.3	410.5	402.3	393.8	390.4	382.9	379.1	371.4
15°	431.5	418.4	405.4	391.4	381.5	368.7	356.5	341.5	329.5	319.0	316.2
17.5°	406.8	390.5	377.5	361.0	344.0	322.6	308.4	299.7	292.5	286.9	282.8
20°	389.8	373.2	359.3	334.5	311.6	297.1	286.7	280.0	272.4	266.5	263.2
22.5°	371.9	354.7	335.7	308.0	290.2	278.5	269.3	261.6	256.4	251.8	248.8
25°	346.6	327.6	296.5	277.5	263.1	250.8	244.4	239.7	234.3	228.0	225.1
27.5°	319.8	289.8	267.4	253.2	239.5	231.6	225.7	218.7	213.9	211.0	208.0
30°	299.8	269.7	252.3	236.8	227.1	218.2	211.4	207.5	202.8	198.0	196.0
32.5°	277.5	253.5	236.7	223.9	214.0	206.4	201.1	194.6	191.3	188.3	184.2
35°	249.8	231.6	216.3	205.9	196.5	190.4	184.1	180.3	174.2	171.7	170.1
37.5°	226.3	210.6	199.2	188.1	180.7	174.0	170.1	164.1	161.4	157.9	154.5
40°	213.0	197.6	186.6	177.6	169.3	164.3	159.5	154.6	150.6	149.0	144.9
42.5°	199.6	187.0	175.9	166.1	160.6	155.2	149.1	145.5	141.4	138.8	136.3
45°	180.9	169.7	160.3	152.3	146.1	140.5	136.6	130.6	128.3	123.1	120.9
47.5°	164.5	154.1	145.1	137.4	131.5	127.9	122.1	117.4	113.7	110.4	107.7
50°	152.8	144.1	135.5	128.7	123.3	118.0	112.1	109.8	104.0	102.3	100.8
52.5°	142.1	133.9	126.0	119.3	113.9	108.8	103.6	100.5	96.6	95.1	93.9
55°	127.2	119.3	111.8	105.8	100.4	95.2	92.0	88.2	86.3	85.1	83.7
57.5°	112.3	105.1	99.3	93.3	87.9	83.7	80.0	77.7	75.9	74.2	72.5
60°	102.7	95.9	90.7	85.1	79.5	76.1	73.3	70.5	68.4	65.8	65.1
62.5°	92.7	86.7	81.9	76.4	71.6	68.5	65.8	63.2	60.6	57.0	55.9
65°	78.8	74.1	69.1	64.6	60.3	57.2	53.2	50.4	49.3	49.0	48.8
67.5°	66.3	61.9	57.5	52.9	49.0	46.2	44.1	43.7	42.9	42.8	42.2
70°	57.9	53.8	49.5	45.2	41.4	40.9	40.2	39.4	38.5	38.2	37.8
72.5°	50.5	46.2	41.8	38.4	36.8	36.1	35.4	34.6	34.1	33.7	33.5
75°	38.7	34.7	31.8	30.6	29.7	29.2	28.0	27.6	27.2	26.6	26.5
77.5°	27.9	25.6	24.3	23.5	22.6	22.0	21.4	20.8	20.4	20.4	20.0
80°	21.2	20.1	19.3	18.1	17.8	17.1	17.0	16.4	16.6	16.0	16.0
82.5°	16.5	15.1	14.3	13.9	13.5	12.9	12.8	12.5	12.5	12.1	12.1
85°	8.5	8.1	7.8	7.4	7.4	6.8	7.1	6.8	6.8	6.5	6.3
87.5°	4.1	4.4	4.7	5.3	5.9	6.3	6.3	6.0	5.9	5.9	5.8
90°	6.9	9.1	12.0	14.8	17.7	20.6	20.3	20.0	19.8	19.6	19.5
92.5°	15.1	16.0	16.6	17.3	18.0	18.7	18.8	18.8	18.9	18.9	18.9
95°	35.8	36.6	36.8	37.1	37.4	37.6	37.6	37.6	37.6	37.6	37.5
97.5°	60.4	61.2	61.8	62.3	62.7	63.2	63.2	63.2	63.2	63.2	63.2
100°	78.8	79.5	79.9	80.3	80.7	81.1	81.1	81.1	81.1	81.1	81.0
102.5°	97.8	98.4	98.9	99.4	99.9	100.4	100.5	100.6	100.7	100.8	100.8
105°	127.9	128.3	128.6	128.8	129.0	129.4	129.6	129.8	130.1	130.4	130.5
107.5°	160.9	161.2	161.2	161.2	161.2	161.2	161.3	161.4	161.5	161.6	161.4
110°	182.4	182.8	182.8	182.8	182.8	182.8	182.8	182.8	182.8	182.8	182.6



TEST NUMBER: P331770-927

CATALOG NUMBER: S122RDIW-S290D710U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	205.0	205.3	205.3	205.1	205.0	204.9	204.6	204.3	204.0	203.7	203.4
115°	238.3	238.5	238.3	238.0	237.7	237.5	237.3	237.3	237.1	236.9	236.7
117.5°	272.4	272.6	271.9	271.2	270.5	269.7	269.4	269.1	268.8	268.5	268.1
120°	294.5	294.5	293.5	292.5	291.4	290.4	290.4	290.4	290.4	290.4	290.2
122.5°	315.6	315.9	315.1	314.4	313.7	313.0	312.7	312.4	312.0	311.7	311.4
125°	346.8	347.2	346.8	346.4	346.0	345.6	345.2	344.8	344.4	344.0	343.8
127.5°	378.7	379.3	378.8	378.3	377.9	377.4	376.9	376.4	376.0	375.5	375.1
130°	398.9	399.6	399.3	399.1	398.8	398.5	398.3	398.1	397.8	397.5	397.1
132.5°	419.2	420.0	420.0	420.1	420.2	420.2	419.6	419.1	418.4	417.9	417.4
135°	448.4	449.2	449.5	449.8	450.0	450.3	450.1	450.0	449.9	449.8	449.5
137.5°	477.8	478.6	478.9	479.3	479.6	479.9	479.8	479.7	479.6	479.5	479.2
140°	496.1	497.0	497.7	498.4	499.0	499.6	499.6	499.6	499.6	499.6	499.4
142.5°	514.9	515.8	516.2	516.7	517.1	517.5	517.6	517.8	517.8	517.9	517.8
145°	541.0	541.8	542.6	543.4	544.2	544.9	545.0	545.2	545.3	545.4	545.3
147.5°	565.8	566.6	567.1	567.6	568.2	568.7	568.9	569.3	569.5	569.8	569.7
150°	581.0	581.6	582.2	582.7	583.2	583.8	584.2	584.5	584.9	585.3	585.3
152.5°	595.6	596.3	596.9	597.5	598.2	598.8	599.3	599.8	600.2	600.8	600.8
155°	615.8	616.2	616.6	617.0	617.4	617.8	618.5	619.1	619.8	620.4	620.6
157.5°	634.1	634.3	634.5	634.8	635.0	635.3	636.1	637.0	637.9	638.7	638.9
160°	645.3	645.5	645.6	645.8	645.9	646.0	646.8	647.6	648.4	649.2	649.3
162.5°	654.8	654.9	655.1	655.2	655.3	655.5	656.3	657.2	658.1	659.0	659.1
165°	667.9	667.8	667.8	667.8	667.8	667.8	668.7	669.6	670.5	671.5	671.6
167.5°	678.3	678.1	678.1	678.0	678.0	678.0	678.9	679.9	680.7	681.7	681.8
170°	684.4	684.2	684.0	683.9	683.8	683.7	684.6	685.5	686.4	687.3	687.4
172.5°	688.6	688.4	688.2	688.2	688.0	687.9	688.8	689.8	690.6	691.6	691.6
175°	693.9	693.6	693.2	693.0	692.8	692.4	693.4	694.3	695.2	696.2	696.2
177.5°	696.2	696.0	695.8	695.6	695.4	695.1	695.8	696.4	697.0	697.7	697.7
180°	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6



TEST NUMBER: P331770-927

CATALOG NUMBER: S122RDIW-S290D710U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	497.3	497.6	497.2	497.4	497.2	497.6	497.3	498.9	499.2	499.5	499.2
5°	463.3	461.2	460.8	460.3	460.8	461.2	463.3	464.2	465.0	466.4	469.0
7.5°	422.9	422.6	421.6	420.3	421.6	422.6	422.9	426.0	428.4	431.2	436.3
10°	396.8	395.9	395.7	394.4	395.7	395.9	396.8	400.8	403.6	407.6	414.6
12.5°	366.2	360.4	359.9	356.7	359.9	360.4	366.2	371.4	379.1	382.9	390.4
15°	311.9	310.8	307.1	304.8	307.1	310.8	311.9	316.2	319.0	329.5	341.5
17.5°	280.7	277.2	276.1	275.6	276.1	277.2	280.7	282.8	286.9	292.5	299.7
20°	260.7	257.5	257.0	256.6	257.0	257.5	260.7	263.2	266.5	272.4	280.0
22.5°	246.9	243.5	242.2	241.1	242.2	243.5	246.9	248.8	251.8	256.4	261.6
25°	223.3	222.0	221.3	220.9	221.3	222.0	223.3	225.1	228.0	234.3	239.7
27.5°	204.9	202.1	201.5	200.6	201.5	202.1	204.9	208.0	211.0	213.9	218.7
30°	194.3	193.5	192.2	191.1	192.2	193.5	194.3	196.0	198.0	202.8	207.5
32.5°	182.0	181.2	180.1	179.6	180.1	181.2	182.0	184.2	188.3	191.3	194.6
35°	168.3	165.7	164.6	163.0	164.6	165.7	168.3	170.1	171.7	174.2	180.3
37.5°	153.8	152.4	150.9	151.5	150.9	152.4	153.8	154.5	157.9	161.4	164.1
40°	142.5	141.6	141.2	141.1	141.2	141.6	142.5	144.9	149.0	150.6	154.6
42.5°	133.6	131.1	130.2	130.2	130.2	131.1	133.6	136.3	138.8	141.4	145.5
45°	120.0	117.7	116.1	116.2	116.1	117.7	120.0	120.9	123.1	128.3	130.6
47.5°	106.2	106.1	105.0	105.4	105.0	106.1	106.2	107.7	110.4	113.7	117.4
50°	99.5	98.5	97.7	97.9	97.7	98.5	99.5	100.8	102.3	104.0	109.8
52.5°	93.2	92.2	91.7	92.4	91.7	92.2	93.2	93.9	95.1	96.6	100.5
55°	82.8	81.7	81.5	81.4	81.5	81.7	82.8	83.7	85.1	86.3	88.2
57.5°	71.1	70.4	69.3	68.9	69.3	70.4	71.1	72.5	74.2	75.9	77.7
60°	62.8	61.4	59.6	59.4	59.6	61.4	62.8	65.1	65.8	68.4	70.5
62.5°	55.1	54.9	54.5	54.5	54.5	54.9	55.1	55.9	57.0	60.6	63.2
65°	48.4	48.2	48.4	48.6	48.4	48.2	48.4	48.8	49.0	49.3	50.4
67.5°	42.1	41.8	41.5	41.7	41.5	41.8	42.1	42.2	42.8	42.9	43.7
70°	37.4	37.2	37.1	37.1	37.1	37.2	37.4	37.8	38.2	38.5	39.4
72.5°	32.8	32.8	32.6	32.5	32.6	32.8	32.8	33.5	33.7	34.1	34.6
75°	26.3	25.9	25.9	25.9	25.9	25.9	26.3	26.5	26.6	27.2	27.6
77.5°	20.0	19.8	19.6	19.5	19.6	19.8	20.0	20.0	20.4	20.4	20.8
80°	15.8	15.7	15.4	15.4	15.4	15.7	15.8	16.0	16.0	16.6	16.4
82.5°	12.1	11.9	11.9	11.7	11.9	11.9	12.1	12.1	12.1	12.5	12.5
85°	6.5	6.7	6.5	6.8	6.5	6.7	6.5	6.3	6.5	6.8	6.8
87.5°	5.8	5.7	5.9	5.7	5.9	5.7	5.8	5.8	5.9	5.9	6.0
90°	19.6	19.7	19.9	20.0	19.9	19.7	19.6	19.5	19.6	19.8	20.0
92.5°	18.9	19.0	19.0	19.0	19.0	19.0	18.9	18.9	18.9	18.9	18.8
95°	37.2	37.0	36.7	36.4	36.7	37.0	37.2	37.5	37.6	37.6	37.6
97.5°	63.2	63.2	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2
100°	81.0	80.8	80.6	80.6	80.6	80.8	81.0	81.0	81.1	81.1	81.1
102.5°	100.7	100.5	100.4	100.3	100.4	100.5	100.7	100.8	100.8	100.7	100.6
105°	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.4	130.1	129.8
107.5°	160.7	160.2	159.5	159.0	159.5	160.2	160.7	161.4	161.6	161.5	161.4
110°	182.2	181.8	181.4	181.1	181.4	181.8	182.2	182.6	182.8	182.8	182.8



TEST NUMBER: P331770-927

CATALOG NUMBER: S122RDIW-S290D710U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	203.1	202.8	202.5	202.2	202.5	202.8	203.1	203.4	203.7	204.0	204.3
115°	236.3	235.9	235.5	235.1	235.5	235.9	236.3	236.7	236.9	237.1	237.3
117.5°	267.7	267.3	266.9	266.5	266.9	267.3	267.7	268.1	268.5	268.8	269.1
120°	289.8	289.4	289.0	288.6	289.0	289.4	289.8	290.2	290.4	290.4	290.4
122.5°	311.1	310.9	310.5	310.3	310.5	310.9	311.1	311.4	311.7	312.0	312.4
125°	343.7	343.6	343.4	343.3	343.4	343.6	343.7	343.8	344.0	344.4	344.8
127.5°	374.6	374.2	373.8	373.4	373.8	374.2	374.6	375.1	375.5	376.0	376.4
130°	396.6	396.1	395.5	395.1	395.5	396.1	396.6	397.1	397.5	397.8	398.1
132.5°	417.0	416.5	416.1	415.7	416.1	416.5	417.0	417.4	417.9	418.4	419.1
135°	449.1	448.7	448.3	447.9	448.3	448.7	449.1	449.5	449.8	449.9	450.0
137.5°	478.6	478.2	477.6	477.1	477.6	478.2	478.6	479.2	479.5	479.6	479.7
140°	498.9	498.4	497.8	497.3	497.8	498.4	498.9	499.4	499.6	499.6	499.6
142.5°	517.2	516.7	516.2	515.6	516.2	516.7	517.2	517.8	517.9	517.8	517.8
145°	544.7	544.2	543.7	543.2	543.7	544.2	544.7	545.3	545.4	545.3	545.2
147.5°	569.3	568.7	568.2	567.8	568.2	568.7	569.3	569.7	569.8	569.5	569.3
150°	584.9	584.5	584.2	583.8	584.2	584.5	584.9	585.3	585.3	584.9	584.5
152.5°	600.2	599.8	599.3	598.8	599.3	599.8	600.2	600.8	600.8	600.2	599.8
155°	620.2	619.8	619.4	619.0	619.4	619.8	620.2	620.6	620.4	619.8	619.1
157.5°	638.3	637.6	637.0	636.4	637.0	637.6	638.3	638.9	638.7	637.9	637.0
160°	648.8	648.2	647.8	647.2	647.8	648.2	648.8	649.3	649.2	648.4	647.6
162.5°	658.5	657.9	657.3	656.6	657.3	657.9	658.5	659.1	659.0	658.1	657.2
165°	670.9	670.3	669.6	669.0	669.6	670.3	670.9	671.6	671.5	670.5	669.6
167.5°	681.1	680.4	679.8	679.1	679.8	680.4	681.1	681.8	681.7	680.7	679.9
170°	686.6	685.8	685.0	684.2	685.0	685.8	686.6	687.4	687.3	686.4	685.5
172.5°	690.9	690.1	689.3	688.5	689.3	690.1	690.9	691.6	691.6	690.6	689.8
175°	695.4	694.7	693.9	693.1	693.9	694.7	695.4	696.2	696.2	695.2	694.3
177.5°	697.0	696.4	695.8	695.1	695.8	696.4	697.0	697.7	697.7	697.0	696.4
180°	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6



TEST NUMBER: P331770-927

CATALOG NUMBER: S122RDIW-S290D710U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	498.0	500.0	503.0	504.8	507.6	509.5	510.6	512.4	513.4	517.1	520.8
5°	470.2	473.1	478.1	482.8	487.8	493.1	496.9	501.1	505.1	511.9	519.1
7.5°	438.3	442.3	450.1	457.6	466.4	473.7	480.2	487.6	494.2	504.0	514.2
10°	414.4	421.4	431.7	438.7	450.2	457.6	467.9	475.9	485.1	498.1	509.6
12.5°	393.8	402.3	410.5	420.3	430.6	442.9	454.2	464.6	475.5	488.9	502.4
15°	356.5	368.7	381.5	391.4	405.4	418.4	431.5	445.5	458.8	474.9	492.5
17.5°	308.4	322.6	344.0	361.0	377.5	390.5	406.8	423.7	439.4	458.8	478.4
20°	286.7	297.1	311.6	334.5	359.3	373.2	389.8	408.4	426.4	447.5	468.6
22.5°	269.3	278.5	290.2	308.0	335.7	354.7	371.9	390.9	411.8	433.2	456.6
25°	244.4	250.8	263.1	277.5	296.5	327.6	346.6	365.7	388.3	411.4	438.0
27.5°	225.7	231.6	239.5	253.2	267.4	289.8	319.8	340.6	363.2	389.1	416.8
30°	211.4	218.2	227.1	236.8	252.3	269.7	299.8	323.9	346.2	372.9	402.3
32.5°	201.1	206.4	214.0	223.9	236.7	253.5	277.5	306.7	328.5	356.6	387.4
35°	184.1	190.4	196.5	205.9	216.3	231.6	249.8	281.1	302.7	330.3	361.3
37.5°	170.1	174.0	180.7	188.1	199.2	210.6	226.3	254.4	277.7	304.9	336.6
40°	159.5	164.3	169.3	177.6	186.6	197.6	213.0	233.9	260.7	287.4	318.3
42.5°	149.1	155.2	160.6	166.1	175.9	187.0	199.6	217.2	244.6	269.8	299.9
45°	136.6	140.5	146.1	152.3	160.3	169.7	180.9	196.3	222.6	244.4	272.6
47.5°	122.1	127.9	131.5	137.4	145.1	154.1	164.5	177.8	199.1	219.5	245.7
50°	112.1	118.0	123.3	128.7	135.5	144.1	152.8	165.7	182.8	204.2	228.7
52.5°	103.6	108.8	113.9	119.3	126.0	133.9	142.1	153.5	168.1	187.8	211.6
55°	92.0	95.2	100.4	105.8	111.8	119.3	127.2	136.7	149.3	165.9	185.1
57.5°	80.0	83.7	87.9	93.3	99.3	105.1	112.3	120.9	130.8	145.8	162.2
60°	73.3	76.1	79.5	85.1	90.7	95.9	102.7	110.0	119.3	132.3	146.3
62.5°	65.8	68.5	71.6	76.4	81.9	86.7	92.7	100.3	108.2	120.0	132.3
65°	53.2	57.2	60.3	64.6	69.1	74.1	78.8	84.9	92.0	101.3	112.3
67.5°	44.1	46.2	49.0	52.9	57.5	61.9	66.3	71.1	77.2	84.4	93.1
70°	40.2	40.9	41.4	45.2	49.5	53.8	57.9	62.4	67.7	73.6	81.1
72.5°	35.4	36.1	36.8	38.4	41.8	46.2	50.5	53.8	58.7	63.7	69.8
75°	28.0	29.2	29.7	30.6	31.8	34.7	38.7	41.9	44.8	48.6	53.5
77.5°	21.4	22.0	22.6	23.5	24.3	25.6	27.9	30.7	33.5	35.6	39.0
80°	17.0	17.1	17.8	18.1	19.3	20.1	21.2	23.6	26.3	27.2	29.5
82.5°	12.8	12.9	13.5	13.9	14.3	15.1	16.5	17.1	19.3	20.4	21.9
85°	7.1	6.8	7.4	7.4	7.8	8.1	8.5	9.3	9.9	11.3	11.7
87.5°	6.3	6.3	5.9	5.3	4.7	4.4	4.1	4.0	3.9	4.0	4.3
90°	20.3	20.6	17.7	14.8	12.0	9.1	6.9	5.3	3.7	2.1	0.6
92.5°	18.8	18.7	18.0	17.3	16.6	16.0	15.1	13.9	12.8	11.6	10.5
95°	37.6	37.6	37.4	37.1	36.8	36.6	35.8	34.5	33.2	31.8	30.6
97.5°	63.2	63.2	62.7	62.3	61.8	61.2	60.4	59.3	58.1	57.0	55.8
100°	81.1	81.1	80.7	80.3	79.9	79.5	78.8	77.8	76.8	75.7	74.6
102.5°	100.5	100.4	99.9	99.4	98.9	98.4	97.8	96.9	96.1	95.2	94.4
105°	129.6	129.4	129.0	128.8	128.6	128.3	127.9	127.5	127.1	126.7	126.4
107.5°	161.3	161.2	161.2	161.2	161.2	161.2	160.9	160.3	159.8	159.1	158.6
110°	182.8	182.8	182.8	182.8	182.8	182.8	182.4	181.6	180.9	180.1	179.3



TEST NUMBER: P331770-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	204.6	204.9	205.0	205.1	205.3	205.3	205.0	204.2	203.4	202.6	201.8
115°	237.3	237.5	237.7	238.0	238.3	238.5	238.3	237.5	236.7	235.9	235.1
117.5°	269.4	269.7	270.5	271.2	271.9	272.6	272.4	271.4	270.4	269.3	268.3
120°	290.4	290.4	291.4	292.5	293.5	294.5	294.5	293.5	292.5	291.4	290.4
122.5°	312.7	313.0	313.7	314.4	315.1	315.9	315.6	314.3	313.1	311.9	310.6
125°	345.2	345.6	346.0	346.4	346.8	347.2	346.8	345.6	344.4	343.3	342.1
127.5°	376.9	377.4	377.9	378.3	378.8	379.3	378.7	377.2	375.8	374.3	372.8
130°	398.3	398.5	398.8	399.1	399.3	399.6	398.9	397.2	395.5	393.8	392.1
132.5°	419.6	420.2	420.2	420.1	420.0	420.0	419.2	417.9	416.5	415.1	413.8
135°	450.1	450.3	450.0	449.8	449.5	449.2	448.4	446.9	445.5	444.1	442.7
137.5°	479.8	479.9	479.6	479.3	478.9	478.6	477.8	476.7	475.5	474.3	473.1
140°	499.6	499.6	499.0	498.4	497.7	497.0	496.1	495.0	493.8	492.6	491.5
142.5°	517.6	517.5	517.1	516.7	516.2	515.8	514.9	513.8	512.6	511.4	510.2
145°	545.0	544.9	544.2	543.4	542.6	541.8	541.0	540.0	539.1	538.2	537.3
147.5°	568.9	568.7	568.2	567.6	567.1	566.6	565.8	564.7	563.6	562.4	561.4
150°	584.2	583.8	583.2	582.7	582.2	581.6	581.0	580.2	579.4	578.6	577.8
152.5°	599.3	598.8	598.2	597.5	596.9	596.3	595.6	594.8	594.0	593.2	592.4
155°	618.5	617.8	617.4	617.0	616.6	616.2	615.8	615.4	615.1	614.7	614.3
157.5°	636.1	635.3	635.0	634.8	634.5	634.3	634.1	633.7	633.5	633.3	633.0
160°	646.8	646.0	645.9	645.8	645.6	645.5	645.3	645.1	644.8	644.5	644.3
162.5°	656.3	655.5	655.3	655.2	655.1	654.9	654.8	654.7	654.7	654.7	654.6
165°	668.7	667.8	667.8	667.8	667.8	667.8	667.9	668.0	668.1	668.2	668.4
167.5°	678.9	678.0	678.0	678.0	678.1	678.1	678.3	678.7	679.1	679.5	679.9
170°	684.6	683.7	683.8	683.9	684.0	684.2	684.4	684.8	685.2	685.6	686.0
172.5°	688.8	687.9	688.0	688.2	688.2	688.4	688.6	689.0	689.4	689.8	690.2
175°	693.4	692.4	692.8	693.0	693.2	693.6	693.9	694.3	694.7	695.1	695.4
177.5°	695.8	695.1	695.4	695.6	695.8	696.0	696.2	696.6	696.9	697.2	697.5
180°	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6



TEST NUMBER: P331770-927

CATALOG NUMBER: S122RDIW-S290D710U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	520.9	521.3	524.2	525.5	528.1	529.1	530.3	530.0	530.0	530.5	534.6
5°	522.0	525.6	531.0	536.2	541.3	545.6	548.5	551.4	552.5	557.6	562.3
7.5°	520.1	526.8	535.7	543.7	553.2	560.6	566.8	572.4	576.2	583.8	591.6
10°	517.7	527.0	537.1	547.4	560.5	570.5	580.5	588.3	590.7	602.1	608.6
12.5°	512.8	525.3	538.1	551.4	564.3	577.9	589.0	596.8	605.6	615.8	627.7
15°	505.5	519.8	536.6	553.7	572.0	588.6	600.5	613.9	623.7	634.9	645.3
17.5°	495.0	513.5	534.7	554.5	575.8	593.5	609.9	622.8	629.6	636.0	637.5
20°	486.6	506.5	531.6	554.9	576.2	596.7	612.9	623.7	625.5	625.7	616.2
22.5°	477.5	500.1	526.2	550.2	575.6	598.4	611.0	615.6	608.5	596.3	577.8
25°	460.8	487.0	517.4	544.7	572.4	594.0	598.3	590.3	565.2	538.9	505.6
27.5°	442.8	472.1	504.7	535.1	564.7	578.1	568.7	539.5	494.5	455.3	407.8
30°	429.5	462.5	494.5	528.5	555.9	561.6	540.2	497.2	444.7	385.6	338.3
32.5°	414.4	448.9	484.1	519.3	542.2	536.5	501.2	448.2	386.7	328.6	283.9
35°	392.8	428.4	466.4	501.7	516.3	491.9	439.0	370.1	307.1	253.0	222.2
37.5°	367.9	406.7	446.2	478.6	477.5	437.0	365.0	293.8	240.9	208.8	187.0
40°	350.1	389.4	432.1	459.4	447.7	395.0	316.9	249.8	211.0	185.5	169.5
42.5°	333.2	372.6	414.9	436.7	416.3	351.5	273.7	221.1	189.2	169.3	156.3
45°	304.3	345.9	385.1	397.1	360.8	289.4	221.3	183.2	161.9	147.2	138.2
47.5°	276.0	317.0	352.8	352.9	303.8	234.6	186.7	158.5	140.4	129.0	122.5
50°	258.7	297.6	327.6	323.0	267.2	208.7	167.0	142.7	127.6	118.7	111.9
52.5°	239.3	277.0	303.1	289.8	236.2	183.7	149.2	128.9	116.4	108.7	102.6
55°	211.0	244.5	262.9	242.7	192.7	152.8	126.1	110.1	100.8	94.3	89.0
57.5°	183.3	211.0	222.4	199.0	158.8	126.7	106.7	94.7	85.4	80.7	78.0
60°	165.9	189.5	197.6	171.7	138.0	110.8	94.5	83.3	76.4	73.4	70.7
62.5°	148.8	168.0	171.3	147.7	120.3	97.0	82.9	73.5	69.0	66.1	63.5
65°	123.4	137.3	135.7	116.6	95.2	77.0	66.8	61.0	57.6	53.5	49.0
67.5°	101.6	110.1	105.0	90.7	72.6	59.9	53.2	48.8	44.5	40.6	39.6
70°	87.8	92.7	87.3	74.1	59.6	50.2	44.8	39.6	37.1	36.2	34.5
72.5°	74.5	76.3	70.4	59.2	48.5	41.6	36.3	33.4	32.0	31.3	30.3
75°	55.9	54.7	49.7	40.9	33.7	29.0	27.3	26.3	25.3	24.6	24.1
77.5°	39.3	37.5	33.0	27.2	23.4	21.2	20.2	19.6	19.3	18.9	18.3
80°	29.5	28.3	23.8	19.4	17.8	16.7	16.2	15.4	15.4	15.1	14.6
82.5°	21.6	20.2	16.2	14.3	13.4	12.7	12.3	11.9	11.7	11.8	11.4
85°	11.3	9.2	8.1	7.8	7.2	6.8	7.1	6.7	6.7	6.7	6.5
87.5°	3.9	3.5	3.6	3.8	4.4	5.0	5.4	6.0	6.7	6.5	6.6
90°	2.1	3.7	5.3	6.9	9.1	12.0	14.8	17.7	20.6	20.3	20.0
92.5°	11.6	12.8	13.9	15.1	16.0	16.6	17.3	18.0	18.7	18.8	18.8
95°	31.8	33.2	34.5	35.8	36.6	36.8	37.1	37.4	37.6	37.6	37.6
97.5°	57.0	58.1	59.3	60.4	61.2	61.8	62.3	62.7	63.2	63.2	63.2
100°	75.7	76.8	77.8	78.8	79.5	79.9	80.3	80.7	81.1	81.1	81.1
102.5°	95.2	96.1	96.9	97.8	98.4	98.9	99.4	99.9	100.4	100.5	100.6
105°	126.7	127.1	127.5	127.9	128.3	128.6	128.8	129.0	129.4	129.6	129.8
107.5°	159.1	159.8	160.3	160.9	161.2	161.2	161.2	161.2	161.2	161.3	161.4
110°	180.1	180.9	181.6	182.4	182.8	182.8	182.8	182.8	182.8	182.8	182.8



TEST NUMBER: P331770-927

CATALOG NUMBER: S122RDIW-S290D710U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	202.6	203.4	204.2	205.0	205.3	205.3	205.1	205.0	204.9	204.6	204.3
115°	235.9	236.7	237.5	238.3	238.5	238.3	238.0	237.7	237.5	237.3	237.3
117.5°	269.3	270.4	271.4	272.4	272.6	271.9	271.2	270.5	269.7	269.4	269.1
120°	291.4	292.5	293.5	294.5	294.5	293.5	292.5	291.4	290.4	290.4	290.4
122.5°	311.9	313.1	314.3	315.6	315.9	315.1	314.4	313.7	313.0	312.7	312.4
125°	343.3	344.4	345.6	346.8	347.2	346.8	346.4	346.0	345.6	345.2	344.8
127.5°	374.3	375.8	377.2	378.7	379.3	378.8	378.3	377.9	377.4	376.9	376.4
130°	393.8	395.5	397.2	398.9	399.6	399.3	399.1	398.8	398.5	398.3	398.1
132.5°	415.1	416.5	417.9	419.2	420.0	420.0	420.1	420.2	420.2	419.6	419.1
135°	444.1	445.5	446.9	448.4	449.2	449.5	449.8	450.0	450.3	450.1	450.0
137.5°	474.3	475.5	476.7	477.8	478.6	478.9	479.3	479.6	479.9	479.8	479.7
140°	492.6	493.8	495.0	496.1	497.0	497.7	498.4	499.0	499.6	499.6	499.6
142.5°	511.4	512.6	513.8	514.9	515.8	516.2	516.7	517.1	517.5	517.6	517.8
145°	538.2	539.1	540.0	541.0	541.8	542.6	543.4	544.2	544.9	545.0	545.2
147.5°	562.4	563.6	564.7	565.8	566.6	567.1	567.6	568.2	568.7	568.9	569.3
150°	578.6	579.4	580.2	581.0	581.6	582.2	582.7	583.2	583.8	584.2	584.5
152.5°	593.2	594.0	594.8	595.6	596.3	596.9	597.5	598.2	598.8	599.3	599.8
155°	614.7	615.1	615.4	615.8	616.2	616.6	617.0	617.4	617.8	618.5	619.1
157.5°	633.3	633.5	633.7	634.1	634.3	634.5	634.8	635.0	635.3	636.1	637.0
160°	644.5	644.8	645.1	645.3	645.5	645.6	645.8	645.9	646.0	646.8	647.6
162.5°	654.7	654.7	654.7	654.8	654.9	655.1	655.2	655.3	655.5	656.3	657.2
165°	668.2	668.1	668.0	667.9	667.8	667.8	667.8	667.8	667.8	668.7	669.6
167.5°	679.5	679.1	678.7	678.3	678.1	678.1	678.0	678.0	678.0	678.9	679.9
170°	685.6	685.2	684.8	684.4	684.2	684.0	683.9	683.8	683.7	684.6	685.5
172.5°	689.8	689.4	689.0	688.6	688.4	688.2	688.2	688.0	687.9	688.8	689.8
175°	695.1	694.7	694.3	693.9	693.6	693.2	693.0	692.8	692.4	693.4	694.3
177.5°	697.2	696.9	696.6	696.2	696.0	695.8	695.6	695.4	695.1	695.8	696.4
180°	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6	696.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	536.0	537.9	538.8	538.8	539.8	539.3	538.9
5°	566.8	570.2	571.0	574.2	576.6	575.8	576.2
7.5°	597.5	602.9	608.4	610.9	611.2	612.7	613.2
10°	616.3	620.8	629.2	628.0	634.3	637.9	632.0
12.5°	634.5	640.6	646.4	648.0	651.6	652.8	650.4
15°	650.9	654.1	654.4	653.6	654.7	653.7	650.3
17.5°	635.6	630.3	619.6	614.6	610.6	604.7	602.3
20°	610.2	594.7	576.7	569.5	561.1	544.5	548.5
22.5°	555.5	537.9	519.8	498.8	488.8	473.1	472.1
25°	470.4	440.0	406.5	383.1	369.4	353.8	346.9
27.5°	365.8	327.4	300.0	286.1	273.5	261.1	260.5
30°	296.9	268.2	246.9	235.0	227.3	222.0	223.2
32.5°	250.3	230.5	216.2	206.4	200.7	196.7	196.6
35°	204.6	191.1	181.9	177.8	173.6	170.8	171.0
37.5°	175.1	167.0	161.8	157.3	154.7	153.3	152.5
40°	159.9	153.3	149.3	146.6	144.5	142.5	142.1
42.5°	148.1	142.5	138.6	136.4	134.4	133.0	132.7
45°	131.3	126.8	123.3	120.9	120.0	118.7	118.7
47.5°	116.8	112.4	109.6	108.1	106.6	105.8	105.8
50°	107.1	103.6	101.2	100.2	98.9	98.5	98.2
52.5°	98.3	95.7	94.0	93.3	92.8	92.1	92.2
55°	86.3	84.9	84.2	83.7	82.8	81.7	82.4
57.5°	76.4	75.1	73.2	71.5	70.7	69.9	70.2
60°	69.3	66.8	64.2	62.3	61.7	60.1	60.1
62.5°	60.4	56.8	53.7	52.6	52.0	51.3	51.2
65°	46.4	45.0	44.3	43.6	43.2	43.2	42.9
67.5°	38.5	37.9	37.1	36.9	36.6	36.4	36.4
70°	34.0	33.3	33.0	32.7	32.4	32.6	32.0
72.5°	29.7	29.2	29.1	28.6	28.4	28.4	28.0
75°	23.4	23.4	23.2	23.1	22.7	22.5	22.7
77.5°	18.0	18.1	17.7	17.7	17.7	17.7	17.5
80°	14.4	14.6	14.4	14.2	14.0	14.2	14.0
82.5°	11.4	11.1	11.1	11.0	11.0	10.9	10.9
85°	6.5	6.7	6.5	6.3	6.3	6.3	6.5
87.5°	6.4	6.3	6.3	6.3	6.4	6.4	6.3
90°	19.8	19.6	19.5	19.6	19.7	19.9	20.0
92.5°	18.9	18.9	18.9	18.9	19.0	19.0	19.0
95°	37.6	37.6	37.5	37.2	37.0	36.7	36.4
97.5°	63.2	63.2	63.2	63.2	63.2	63.1	63.1
100°	81.1	81.1	81.0	81.0	80.8	80.6	80.6
102.5°	100.7	100.8	100.8	100.7	100.5	100.4	100.3
105°	130.1	130.4	130.5	130.5	130.5	130.5	130.5
107.5°	161.5	161.6	161.4	160.7	160.2	159.5	159.0
110°	182.8	182.8	182.6	182.2	181.8	181.4	181.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	204.0	203.7	203.4	203.1	202.8	202.5	202.2
115°	237.1	236.9	236.7	236.3	235.9	235.5	235.1
117.5°	268.8	268.5	268.1	267.7	267.3	266.9	266.5
120°	290.4	290.4	290.2	289.8	289.4	289.0	288.6
122.5°	312.0	311.7	311.4	311.1	310.9	310.5	310.3
125°	344.4	344.0	343.8	343.7	343.6	343.4	343.3
127.5°	376.0	375.5	375.1	374.6	374.2	373.8	373.4
130°	397.8	397.5	397.1	396.6	396.1	395.5	395.1
132.5°	418.4	417.9	417.4	417.0	416.5	416.1	415.7
135°	449.9	449.8	449.5	449.1	448.7	448.3	447.9
137.5°	479.6	479.5	479.2	478.6	478.2	477.6	477.1
140°	499.6	499.6	499.4	498.9	498.4	497.8	497.3
142.5°	517.8	517.9	517.8	517.2	516.7	516.2	515.6
145°	545.3	545.4	545.3	544.7	544.2	543.7	543.2
147.5°	569.5	569.8	569.7	569.3	568.7	568.2	567.8
150°	584.9	585.3	585.3	584.9	584.5	584.2	583.8
152.5°	600.2	600.8	600.8	600.2	599.8	599.3	598.8
155°	619.8	620.4	620.6	620.2	619.8	619.4	619.0
157.5°	637.9	638.7	638.9	638.3	637.6	637.0	636.4
160°	648.4	649.2	649.3	648.8	648.2	647.8	647.2
162.5°	658.1	659.0	659.1	658.5	657.9	657.3	656.6
165°	670.5	671.5	671.6	670.9	670.3	669.6	669.0
167.5°	680.7	681.7	681.8	681.1	680.4	679.8	679.1
170°	686.4	687.3	687.4	686.6	685.8	685.0	684.2
172.5°	690.6	691.6	691.6	690.9	690.1	689.3	688.5
175°	695.2	696.2	696.2	695.4	694.7	693.9	693.1
177.5°	697.0	697.7	697.7	697.0	696.4	695.8	695.1
180°	696.6	696.6	696.6	696.6	696.6	696.6	696.6

(END OF REPORT)