

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: P331615-935

Luminaire Tested: **S122RDIP-S290D330U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331615-935
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: S122RDIP-S290D330U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2101.2 lumens
Efficiency: N/A
Efficacy: 103.5 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: General Diffuse

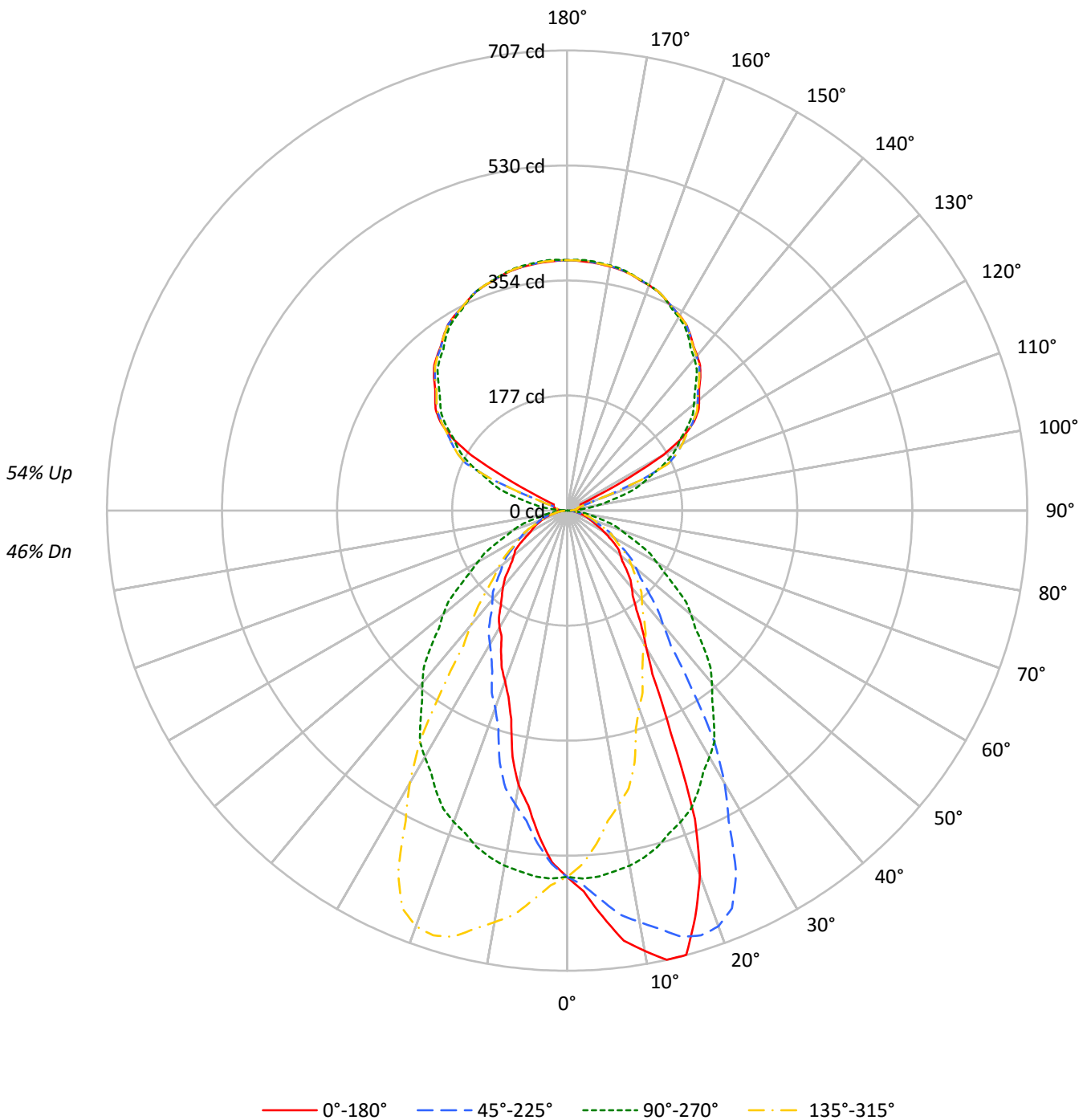
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	98	94	90	87	90	86	83	80	72	70	68	59	58	57	48	47	46	40
2	90	83	77	72	82	76	71	67	64	61	58	53	51	49	43	41	40	35
3	82	73	66	61	75	68	62	57	57	53	49	48	45	42	39	37	35	31
4	76	65	58	52	69	61	54	49	52	47	43	43	40	37	35	33	31	27
5	70	59	51	45	64	55	48	43	47	41	37	39	35	32	32	29	27	24
6	64	53	45	40	59	49	43	38	42	37	33	36	32	29	29	27	25	22
7	60	48	41	35	55	45	38	33	39	33	30	33	29	26	27	24	22	20
8	56	44	37	32	51	41	34	30	35	30	27	30	26	23	25	22	20	18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	23	21	18	16
10	49	37	30	26	45	35	29	24	30	25	22	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9087	9087	9087	9087
5°	10149	9144	8109	9144
10°	11262	9081	7029	9081
15°	11814	8948	5538	8948
20°	10244	8751	4792	8751
25°	6716	8480	4277	8480
30°	4521	8153	3872	8153
35°	3662	7740	3493	7740
40°	3256	7290	3231	7290
45°	2948	6766	2884	6766
50°	2683	6244	2673	6244
55°	2519	5664	2488	5664
60°	2109	5134	2086	5134
65°	1780	4661	2017	4661
70°	1643	4164	1902	4164
75°	1535	3624	1759	3624
80°	1413	2985	1562	2985
85°	1315	2353	1371	2353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	2.5
10°-20°	148.7	7.1
20°-30°	191.6	9.1
30°-40°	182.1	8.7
40°-50°	156.0	7.4
50°-60°	118.8	5.7
60°-70°	75.1	3.6
70°-80°	37.5	1.8
80°-90°	10.7	0.5
90°-100°	12.8	0.6
100°-110°	47.1	2.2
110°-120°	125.8	6.0
120°-130°	207.7	9.9
130°-140°	220.8	10.5
140°-150°	205.3	9.8
150°-160°	165.0	7.9
160°-170°	106.3	5.1
170°-180°	36.6	1.7
0°-30°	393.6	18.7
0°-40°	575.7	27.4
0°-60°	850.4	40.5
0°-90°	973.7	46.3
90°-120°	185.7	8.8
90°-150°	819.5	39.0
90°-180°	1127.0	53.6
0°-180°	2101.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	563	563	563	563	563	
5°	626	564	500	564	626	62
15°	707	535	331	535	707	191
25°	377	476	240	476	377	179
35°	186	393	177	393	186	119
45°	129	296	126	296	129	100
55°	90	201	88	201	90	79
65°	47	122	53	122	47	47
75°	25	58	28	58	25	26
85°	7	13	7	13	7	8
90°	8	0	8	0	8	4
95°	12	18	12	18	12	11
105°	21	85	21	85	21	22
115°	23	160	23	160	23	57
125°	238	226	238	226	238	206
135°	289	280	289	280	289	223
145°	330	325	330	325	330	206
155°	358	358	358	358	358	165
165°	376	377	376	377	376	106
175°	383	386	383	386	383	37
180°	385	385	385	385	385	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	585.7	586.2	586.7	585.6	585.6	584.6	582.6	581.0	576.6	576.0	576.0
5°	626.2	625.9	626.6	624.1	620.6	619.7	616.0	611.1	606.1	600.5	599.3
7.5°	666.5	665.9	664.3	663.9	661.2	655.3	649.4	643.0	634.6	626.3	622.2
10°	686.9	693.4	689.4	682.6	683.9	674.8	669.9	661.4	654.4	642.0	639.4
12.5°	706.9	709.5	708.2	704.3	702.6	696.2	689.6	682.3	669.3	658.2	648.6
15°	706.8	710.5	711.5	710.3	711.3	710.9	707.4	701.4	690.0	677.9	667.3
17.5°	654.6	657.2	663.7	668.0	673.5	685.0	690.8	692.9	691.3	684.3	676.9
20°	596.2	591.9	609.8	619.0	626.8	646.4	663.2	669.7	680.0	679.8	677.9
22.5°	513.2	514.2	531.2	542.2	565.0	584.6	603.7	628.0	648.1	661.3	669.1
25°	377.0	384.5	401.5	416.4	441.8	478.2	511.3	549.6	585.7	614.3	641.5
27.5°	283.2	283.8	297.2	311.0	326.1	355.9	397.5	443.2	494.8	537.4	586.3
30°	242.5	241.3	247.0	255.5	268.4	291.4	322.7	367.6	419.1	483.3	540.4
32.5°	213.7	213.8	218.1	224.3	235.0	250.6	272.0	308.6	357.1	420.3	487.2
35°	185.8	185.6	188.7	193.2	197.7	207.7	222.4	241.5	275.0	333.8	402.3
37.5°	165.7	166.6	168.2	171.0	175.9	181.5	190.3	203.2	227.0	261.8	319.3
40°	154.5	154.9	157.0	159.4	162.3	166.6	173.8	184.3	201.6	229.4	271.5
42.5°	144.2	144.6	146.1	148.3	150.6	154.9	160.9	169.9	184.0	205.6	240.3
45°	129.1	129.1	130.4	131.4	134.0	137.8	142.8	150.2	160.0	176.0	199.1
47.5°	114.9	114.9	115.9	117.5	119.2	122.2	127.0	133.1	140.2	152.6	172.3
50°	106.8	107.0	107.5	108.9	109.9	112.6	116.4	121.7	129.1	138.7	155.1
52.5°	100.2	100.1	100.8	101.4	102.1	104.0	106.9	111.5	118.1	126.5	140.1
55°	89.5	88.8	90.0	90.9	91.5	92.3	93.8	96.8	102.5	109.5	119.7
57.5°	76.3	75.9	76.8	77.7	79.6	81.6	83.0	84.8	87.7	92.8	102.9
60°	65.3	65.3	67.1	67.7	69.8	72.6	75.3	76.9	79.8	83.1	90.6
62.5°	55.6	55.8	56.6	57.2	58.4	61.7	65.6	69.1	71.8	75.0	79.9
65°	46.6	46.9	46.9	47.4	48.1	48.9	50.5	53.2	58.1	62.6	66.3
67.5°	39.5	39.6	39.8	40.1	40.3	41.2	41.8	43.0	44.2	48.4	53.0
70°	34.8	35.4	35.2	35.6	35.8	36.2	36.9	37.5	39.3	40.3	43.0
72.5°	30.4	30.8	30.8	31.1	31.6	31.7	32.3	32.9	34.0	34.8	36.3
75°	24.6	24.5	24.6	25.1	25.2	25.4	25.4	26.2	26.8	27.6	28.6
77.5°	19.0	19.2	19.2	19.2	19.3	19.6	19.5	19.9	20.5	20.9	21.4
80°	15.2	15.4	15.2	15.4	15.7	15.8	15.7	15.8	16.4	16.8	16.8
82.5°	11.8	11.9	12.0	12.0	12.1	12.1	12.4	12.4	12.8	12.7	12.9
85°	7.1	6.9	6.9	6.9	7.1	7.2	7.1	7.1	7.2	7.2	7.2
87.5°	4.0	4.1	4.1	4.0	4.0	4.0	4.0	4.0	3.9	4.0	3.7
90°	7.5	7.4	7.2	7.1	7.1	6.8	6.5	6.2	5.9	5.6	5.1
92.5°	7.5	7.4	7.4	7.3	7.2	7.1	7.0	6.8	6.6	6.5	6.2
95°	12.0	12.1	12.1	12.1	12.2	12.1	11.8	11.5	11.2	10.8	10.4
97.5°	16.0	15.9	15.8	15.8	15.7	15.5	15.2	15.1	14.8	14.6	13.5
100°	18.7	18.5	18.4	18.3	18.2	17.8	17.4	16.9	16.4	15.8	14.8
102.5°	20.0	19.8	19.6	19.5	19.3	18.9	18.3	17.6	17.0	16.3	25.1
105°	21.2	20.9	20.7	20.4	20.1	19.7	19.0	18.3	17.7	17.0	33.8
107.5°	21.8	21.5	21.3	21.0	20.8	21.0	21.7	22.4	23.1	23.8	44.0
110°	22.0	21.8	21.5	21.3	21.0	23.9	30.1	36.3	42.5	48.7	66.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	22.2	22.0	21.8	21.6	21.4	32.6	55.2	77.7	100.3	122.9	127.3
115°	22.8	27.3	31.8	36.2	40.6	57.2	85.8	114.5	143.1	171.8	170.2
117.5°	93.2	107.9	122.5	137.2	151.8	162.6	169.4	176.4	183.3	190.3	189.2
120°	169.8	178.1	186.5	194.8	203.2	207.0	206.3	205.5	204.8	204.1	202.9
122.5°	211.9	213.5	215.2	216.8	218.3	219.0	218.5	218.1	217.7	217.2	216.0
125°	238.0	237.8	237.6	237.5	237.3	236.9	236.5	236.1	235.7	235.2	234.0
127.5°	254.5	254.4	254.4	254.4	254.3	254.0	253.4	252.8	252.1	251.5	250.6
130°	264.8	264.8	264.8	264.9	265.0	264.7	264.0	263.3	262.6	262.0	261.3
132.5°	274.7	274.8	274.9	274.9	275.0	274.7	274.1	273.6	273.0	272.4	271.7
135°	289.2	289.4	289.5	289.6	289.7	289.5	288.9	288.3	287.7	287.1	286.5
137.5°	302.5	302.6	302.9	303.1	303.2	303.1	302.5	301.9	301.3	300.7	300.1
140°	310.6	311.0	311.3	311.6	311.9	311.8	311.3	310.6	310.1	309.5	308.9
142.5°	318.7	319.0	319.3	319.6	319.9	319.9	319.3	318.8	318.3	317.8	317.0
145°	329.8	330.2	330.5	330.8	331.1	331.1	330.6	330.2	329.8	329.3	328.3
147.5°	339.8	340.0	340.3	340.5	340.8	340.8	340.4	340.1	339.8	339.5	338.5
150°	345.8	346.0	346.4	346.7	347.0	347.0	346.6	346.2	345.9	345.5	344.5
152.5°	350.9	351.3	351.7	352.1	352.5	352.5	352.1	351.8	351.4	351.0	350.1
155°	358.0	358.5	359.0	359.5	360.0	360.1	359.6	359.3	359.0	358.5	357.8
157.5°	364.5	365.0	365.5	365.9	366.4	366.4	366.1	365.7	365.2	364.8	364.3
160°	368.3	368.8	369.2	369.6	370.1	370.1	369.7	369.4	368.9	368.6	368.2
162.5°	371.4	372.0	372.5	373.0	373.6	373.6	373.2	372.7	372.4	372.0	371.6
165°	376.1	376.5	376.9	377.4	377.8	377.8	377.4	376.9	376.5	376.1	375.9
167.5°	379.0	379.6	380.1	380.7	381.3	381.3	380.9	380.5	380.0	379.6	379.4
170°	380.8	381.4	381.9	382.5	383.1	383.1	382.7	382.3	381.9	381.4	381.3
172.5°	382.2	382.7	383.3	383.8	384.4	384.4	384.0	383.6	383.1	382.7	382.6
175°	383.3	383.9	384.6	385.2	385.8	385.9	385.5	385.0	384.6	384.2	384.1
177.5°	384.1	384.5	385.0	385.4	385.8	385.9	385.6	385.2	384.9	384.5	384.4
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	576.4	575.1	573.9	571.2	569.7	566.6	566.2	566.0	562.0	558.0	556.9
5°	596.2	593.0	588.3	582.8	577.1	571.3	567.4	564.2	556.4	549.0	544.7
7.5°	616.0	609.3	601.2	590.9	582.2	572.6	565.3	558.9	547.8	537.1	529.9
10°	630.9	620.0	609.2	595.0	583.8	572.8	562.7	553.9	541.4	527.3	517.3
12.5°	640.2	628.1	613.3	599.3	584.9	570.9	557.3	546.0	531.3	516.8	505.0
15°	652.6	639.7	621.7	601.8	583.2	565.0	549.4	535.3	516.2	498.7	484.2
17.5°	662.9	645.1	625.8	602.7	581.2	558.1	538.0	520.0	498.6	477.6	460.5
20°	666.2	648.5	626.2	603.1	577.7	550.5	528.8	509.3	486.4	463.5	443.9
22.5°	664.1	650.4	625.6	598.0	572.0	543.5	519.0	496.3	470.9	447.5	424.9
25°	650.3	645.6	622.2	592.0	562.3	529.3	500.8	476.0	447.1	422.1	397.4
27.5°	618.1	628.3	613.7	581.6	548.5	513.2	481.2	453.0	422.9	394.8	370.2
30°	587.1	610.4	604.2	574.4	537.4	502.7	466.8	437.3	405.3	376.3	352.1
32.5°	544.8	583.2	589.3	564.4	526.2	487.9	450.4	421.0	387.5	357.1	333.4
35°	477.2	534.7	561.1	545.3	507.0	465.6	427.0	392.7	359.0	329.0	305.5
37.5°	396.7	475.0	519.0	520.1	484.9	442.0	399.8	365.8	331.4	301.9	276.5
40°	344.4	429.3	486.6	499.3	469.6	423.3	380.6	345.9	312.4	283.4	254.3
42.5°	297.5	382.0	452.5	474.6	451.0	404.9	362.1	326.0	293.3	265.9	236.1
45°	240.6	314.5	392.1	431.6	418.5	375.9	330.7	296.3	265.6	241.9	213.4
47.5°	202.9	255.0	330.2	383.6	383.4	344.5	300.0	267.1	238.6	216.4	193.3
50°	181.5	226.9	290.4	351.0	356.1	323.5	281.2	248.6	222.0	198.7	180.1
52.5°	162.2	199.7	256.8	315.0	329.4	301.1	260.1	230.0	204.1	182.7	166.9
55°	137.1	166.1	209.5	263.8	285.8	265.8	229.4	201.2	180.3	162.3	148.6
57.5°	116.0	137.7	172.5	216.3	241.8	229.3	199.2	176.3	158.4	142.2	131.4
60°	102.7	120.5	150.0	186.6	214.7	206.0	180.3	159.0	143.8	129.7	119.5
62.5°	90.1	105.5	130.8	160.5	186.2	182.6	161.7	143.8	130.4	117.6	109.0
65°	72.6	83.7	103.5	126.7	147.5	149.2	134.1	122.0	110.1	100.0	92.3
67.5°	57.8	65.1	79.0	98.6	114.1	119.7	110.5	101.2	91.7	83.9	77.2
70°	48.7	54.6	64.7	80.6	94.9	100.7	95.4	88.2	80.0	73.5	67.8
72.5°	39.4	45.2	52.7	64.3	76.5	82.9	81.0	75.9	69.2	63.8	58.5
75°	29.7	31.5	36.6	44.4	54.0	59.5	60.8	58.1	52.8	48.7	45.5
77.5°	22.0	23.1	25.5	29.5	35.8	40.7	42.7	42.4	38.7	36.4	33.4
80°	17.6	18.2	19.4	21.1	25.8	30.7	32.1	32.1	29.5	28.6	25.7
82.5°	13.3	13.8	14.6	15.5	17.7	22.0	23.5	23.8	22.2	20.9	18.6
85°	7.7	7.4	7.8	8.4	8.8	10.0	12.3	12.7	12.3	10.8	10.2
87.5°	3.6	3.6	3.5	3.3	3.3	3.3	4.0	4.6	4.1	3.8	3.6
90°	4.6	4.0	3.6	3.0	2.3	1.6	0.9	0.3	0.9	1.6	2.3
92.5°	5.9	5.7	5.5	5.3	5.4	5.5	5.6	5.6	5.6	5.5	5.4
95°	10.0	9.6	9.1	9.9	12.0	14.0	16.0	18.1	16.0	14.0	12.0
97.5°	12.5	11.5	10.5	12.9	18.7	24.4	30.1	35.9	30.1	24.4	18.7
100°	13.8	12.7	11.6	15.4	23.8	32.3	40.8	49.2	40.8	32.3	23.8
102.5°	33.9	42.7	51.5	56.8	58.6	60.4	62.2	64.0	62.2	60.4	58.6
105°	50.8	67.7	84.6	92.0	90.2	88.3	86.4	84.6	86.4	88.3	90.2
107.5°	64.3	84.6	104.8	114.2	112.7	111.2	109.7	108.1	109.7	111.2	112.7
110°	84.5	102.4	120.2	128.5	127.3	126.0	124.6	123.3	124.6	126.0	127.3



TEST NUMBER: P331615-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	131.7	136.1	140.5	142.2	141.0	139.9	138.7	137.6	138.7	139.9	141.0
115°	168.7	167.1	165.6	164.3	163.2	162.2	161.1	160.1	161.1	162.2	163.2
117.5°	188.1	187.1	186.0	184.9	183.7	182.5	181.3	180.2	181.3	182.5	183.7
120°	201.8	200.7	199.6	198.5	197.7	196.7	195.8	194.8	195.8	196.7	197.7
122.5°	214.7	213.5	212.3	211.3	210.3	209.3	208.4	207.3	208.4	209.3	210.3
125°	232.9	231.7	230.6	229.5	228.8	227.9	227.1	226.4	227.1	227.9	228.8
127.5°	249.8	248.8	248.0	247.1	246.2	245.3	244.4	243.5	244.4	245.3	246.2
130°	260.6	259.9	259.2	258.4	257.4	256.4	255.5	254.4	255.5	256.4	257.4
132.5°	271.0	270.4	269.7	269.0	268.1	267.3	266.4	265.6	266.4	267.3	268.1
135°	285.9	285.3	284.8	284.0	283.0	282.1	281.0	280.1	281.0	282.1	283.0
137.5°	299.4	298.8	298.2	297.5	296.8	296.1	295.4	294.7	295.4	296.1	296.8
140°	308.2	307.5	306.9	306.3	305.7	305.2	304.8	304.3	304.8	305.2	305.7
142.5°	316.2	315.5	314.7	314.1	313.7	313.1	312.7	312.3	312.7	313.1	313.7
145°	327.3	326.1	325.1	324.6	324.7	324.8	324.9	324.9	324.9	324.8	324.7
147.5°	337.4	336.3	335.3	334.9	335.1	335.4	335.6	335.9	335.6	335.4	335.1
150°	343.5	342.5	341.6	341.2	341.6	342.1	342.5	342.9	342.5	342.1	341.6
152.5°	349.1	348.2	347.2	347.1	347.5	348.0	348.5	349.0	348.5	348.0	347.5
155°	357.1	356.4	355.6	355.5	356.0	356.6	357.1	357.7	357.1	356.6	356.0
157.5°	363.8	363.3	362.7	362.7	363.2	363.6	364.1	364.5	364.1	363.6	363.2
160°	367.8	367.5	367.1	367.1	367.5	367.8	368.2	368.6	368.2	367.8	367.5
162.5°	371.3	370.9	370.7	370.7	371.0	371.4	371.8	372.1	371.8	371.4	371.0
165°	375.7	375.6	375.4	375.5	375.8	376.2	376.6	376.9	376.6	376.2	375.8
167.5°	379.3	379.1	378.9	379.0	379.4	379.8	380.1	380.5	380.1	379.8	379.4
170°	381.2	381.0	380.9	381.0	381.4	381.8	382.1	382.5	382.1	381.8	381.4
172.5°	382.5	382.4	382.2	382.4	382.7	383.1	383.5	383.8	383.5	383.1	382.7
175°	383.9	383.8	383.7	383.8	384.3	384.7	385.1	385.6	385.1	384.7	384.3
177.5°	384.4	384.4	384.4	384.4	384.8	385.1	385.5	385.8	385.5	385.1	384.8
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



TEST NUMBER: P331615-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	554.9	553.8	551.7	548.6	546.7	543.5	541.3	542.5	542.9	542.5	542.3
5°	540.0	535.9	530.2	524.7	519.6	514.2	511.0	509.7	507.0	505.4	504.5
7.5°	521.9	514.9	506.9	497.3	489.2	480.7	476.4	474.2	468.6	465.6	463.0
10°	508.5	497.3	489.3	476.8	469.2	458.1	450.4	450.6	443.0	438.7	435.6
12.5°	493.6	481.4	468.0	456.8	446.2	437.2	428.0	424.3	416.2	412.1	403.6
15°	469.0	454.7	440.7	425.4	414.7	400.7	387.4	371.2	358.1	346.7	343.6
17.5°	442.1	424.4	410.3	392.4	373.9	350.6	335.2	325.7	317.9	311.9	307.4
20°	423.6	405.6	390.5	363.6	338.7	322.9	311.6	304.3	296.1	289.6	286.1
22.5°	404.2	385.5	364.9	334.8	315.4	302.7	292.7	284.3	278.7	273.7	270.4
25°	376.7	356.1	322.3	301.6	285.9	272.6	265.6	260.5	254.7	247.8	244.7
27.5°	347.6	315.0	290.6	275.2	260.3	251.7	245.3	237.7	232.5	229.4	226.1
30°	325.8	293.2	274.2	257.4	246.8	237.2	229.8	225.5	220.4	215.2	213.0
32.5°	301.6	275.5	257.3	243.3	232.6	224.4	218.5	211.5	207.9	204.7	200.2
35°	271.5	251.7	235.1	223.8	213.5	206.9	200.1	196.0	189.3	186.6	184.9
37.5°	246.0	228.9	216.5	204.5	196.4	189.1	184.9	178.3	175.5	171.6	167.9
40°	231.5	214.7	202.9	193.0	184.0	178.6	173.3	168.0	163.7	162.0	157.5
42.5°	216.9	203.2	191.2	180.6	174.5	168.7	162.0	158.2	153.7	150.8	148.1
45°	196.6	184.4	174.3	165.5	158.8	152.7	148.4	142.0	139.5	133.8	131.4
47.5°	178.7	167.5	157.7	149.4	142.9	139.0	132.7	127.6	123.6	120.0	117.0
50°	166.1	156.6	147.2	139.8	134.0	128.3	121.8	119.3	113.0	111.2	109.5
52.5°	154.5	145.5	137.0	129.7	123.8	118.3	112.6	109.3	105.0	103.3	102.0
55°	138.3	129.7	121.5	115.0	109.2	103.5	100.0	95.8	93.8	92.5	90.9
57.5°	122.0	114.3	108.0	101.4	95.5	91.0	87.0	84.5	82.5	80.7	78.8
60°	111.7	104.3	98.6	92.5	86.4	82.7	79.6	76.6	74.3	71.5	70.8
62.5°	100.7	94.2	89.0	83.1	77.8	74.5	71.5	68.7	65.9	61.9	60.8
65°	85.7	80.6	75.1	70.2	65.5	62.2	57.9	54.8	53.6	53.2	53.0
67.5°	72.1	67.2	62.5	57.5	53.3	50.2	48.0	47.5	46.7	46.5	45.9
70°	62.9	58.5	53.8	49.1	44.9	44.4	43.7	42.8	41.8	41.5	41.1
72.5°	54.8	50.2	45.5	41.8	40.0	39.3	38.5	37.6	37.0	36.6	36.4
75°	42.0	37.7	34.6	33.2	32.3	31.7	30.5	30.0	29.5	28.9	28.8
77.5°	30.3	27.8	26.4	25.6	24.5	23.9	23.2	22.6	22.2	22.1	21.8
80°	23.1	21.9	20.9	19.7	19.4	18.6	18.4	17.8	18.0	17.4	17.4
82.5°	17.9	16.4	15.6	15.1	14.6	14.0	13.9	13.6	13.6	13.2	13.2
85°	9.2	8.8	8.4	8.0	8.0	7.4	7.7	7.4	7.4	7.1	6.9
87.5°	3.5	3.5	3.4	3.4	3.5	3.4	3.5	3.4	3.5	3.5	3.4
90°	3.0	3.6	4.0	4.6	5.1	5.6	5.9	6.2	6.5	6.8	7.1
92.5°	5.3	5.5	5.7	5.9	6.2	6.5	6.6	6.8	7.0	7.1	7.2
95°	9.9	9.1	9.6	10.0	10.4	10.8	11.2	11.5	11.8	12.1	12.2
97.5°	12.9	10.5	11.5	12.5	13.5	14.6	14.8	15.1	15.2	15.5	15.7
100°	15.4	11.6	12.7	13.8	14.8	15.8	16.4	16.9	17.4	17.8	18.2
102.5°	56.8	51.5	42.7	33.9	25.1	16.3	17.0	17.6	18.3	18.9	19.3
105°	92.0	84.6	67.7	50.8	33.8	17.0	17.7	18.3	19.0	19.7	20.1
107.5°	114.2	104.8	84.6	64.3	44.0	23.8	23.1	22.4	21.7	21.0	20.8
110°	128.5	120.2	102.4	84.5	66.6	48.7	42.5	36.3	30.1	23.9	21.0



TEST NUMBER: P331615-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	142.2	140.5	136.1	131.7	127.3	122.9	100.3	77.7	55.2	32.6	21.4
115°	164.3	165.6	167.1	168.7	170.2	171.8	143.1	114.5	85.8	57.2	40.6
117.5°	184.9	186.0	187.1	188.1	189.2	190.3	183.3	176.4	169.4	162.6	151.8
120°	198.5	199.6	200.7	201.8	202.9	204.1	204.8	205.5	206.3	207.0	203.2
122.5°	211.3	212.3	213.5	214.7	216.0	217.2	217.7	218.1	218.5	219.0	218.3
125°	229.5	230.6	231.7	232.9	234.0	235.2	235.7	236.1	236.5	236.9	237.3
127.5°	247.1	248.0	248.8	249.8	250.6	251.5	252.1	252.8	253.4	254.0	254.3
130°	258.4	259.2	259.9	260.6	261.3	262.0	262.6	263.3	264.0	264.7	265.0
132.5°	269.0	269.7	270.4	271.0	271.7	272.4	273.0	273.6	274.1	274.7	275.0
135°	284.0	284.8	285.3	285.9	286.5	287.1	287.7	288.3	288.9	289.5	289.7
137.5°	297.5	298.2	298.8	299.4	300.1	300.7	301.3	301.9	302.5	303.1	303.2
140°	306.3	306.9	307.5	308.2	308.9	309.5	310.1	310.6	311.3	311.8	311.9
142.5°	314.1	314.7	315.5	316.2	317.0	317.8	318.3	318.8	319.3	319.9	319.9
145°	324.6	325.1	326.1	327.3	328.3	329.3	329.8	330.2	330.6	331.1	331.1
147.5°	334.9	335.3	336.3	337.4	338.5	339.5	339.8	340.1	340.4	340.8	340.8
150°	341.2	341.6	342.5	343.5	344.5	345.5	345.9	346.2	346.6	347.0	347.0
152.5°	347.1	347.2	348.2	349.1	350.1	351.0	351.4	351.8	352.1	352.5	352.5
155°	355.5	355.6	356.4	357.1	357.8	358.5	359.0	359.3	359.6	360.1	360.0
157.5°	362.7	362.7	363.3	363.8	364.3	364.8	365.2	365.7	366.1	366.4	366.4
160°	367.1	367.1	367.5	367.8	368.2	368.6	368.9	369.4	369.7	370.1	370.1
162.5°	370.7	370.7	370.9	371.3	371.6	372.0	372.4	372.7	373.2	373.6	373.6
165°	375.5	375.4	375.6	375.7	375.9	376.1	376.5	376.9	377.4	377.8	377.8
167.5°	379.0	378.9	379.1	379.3	379.4	379.6	380.0	380.5	380.9	381.3	381.3
170°	381.0	380.9	381.0	381.2	381.3	381.4	381.9	382.3	382.7	383.1	383.1
172.5°	382.4	382.2	382.4	382.5	382.6	382.7	383.1	383.6	384.0	384.4	384.4
175°	383.8	383.7	383.8	383.9	384.1	384.2	384.6	385.0	385.5	385.9	385.8
177.5°	384.4	384.4	384.4	384.4	384.4	384.5	384.9	385.2	385.6	385.9	385.8
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



TEST NUMBER: P331615-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	540.5	540.8	540.4	540.6	540.4	540.8	540.5	542.3	542.5	542.9	542.5
5°	503.6	501.3	500.8	500.3	500.8	501.3	503.6	504.5	505.4	507.0	509.7
7.5°	459.6	459.3	458.2	456.8	458.2	459.3	459.6	463.0	465.6	468.6	474.2
10°	431.3	430.2	430.1	428.7	430.1	430.2	431.3	435.6	438.7	443.0	450.6
12.5°	398.0	391.8	391.2	387.7	391.2	391.8	398.0	403.6	412.1	416.2	424.3
15°	339.0	337.8	333.8	331.3	333.8	337.8	339.0	343.6	346.7	358.1	371.2
17.5°	305.1	301.3	300.1	299.5	300.1	301.3	305.1	307.4	311.9	317.9	325.7
20°	283.4	279.9	279.3	278.9	279.3	279.9	283.4	286.1	289.6	296.1	304.3
22.5°	268.4	264.7	263.2	262.0	263.2	264.7	268.4	270.4	273.7	278.7	284.3
25°	242.7	241.3	240.6	240.1	240.6	241.3	242.7	244.7	247.8	254.7	260.5
27.5°	222.7	219.6	219.0	218.0	219.0	219.6	222.7	226.1	229.4	232.5	237.7
30°	211.2	210.3	208.9	207.7	208.9	210.3	211.2	213.0	215.2	220.4	225.5
32.5°	197.8	196.9	195.7	195.2	195.7	196.9	197.8	200.2	204.7	207.9	211.5
35°	182.9	180.1	178.9	177.2	178.9	180.1	182.9	184.9	186.6	189.3	196.0
37.5°	167.1	165.7	164.0	164.6	164.0	165.7	167.1	167.9	171.6	175.5	178.3
40°	154.9	153.9	153.5	153.3	153.5	153.9	154.9	157.5	162.0	163.7	168.0
42.5°	145.2	142.5	141.5	141.5	141.5	142.5	145.2	148.1	150.8	153.7	158.2
45°	130.4	127.9	126.1	126.3	126.1	127.9	130.4	131.4	133.8	139.5	142.0
47.5°	115.4	115.3	114.2	114.5	114.2	115.3	115.4	117.0	120.0	123.6	127.6
50°	108.1	107.0	106.2	106.4	106.2	107.0	108.1	109.5	111.2	113.0	119.3
52.5°	101.3	100.2	99.6	100.5	99.6	100.2	101.3	102.0	103.3	105.0	109.3
55°	90.0	88.8	88.6	88.4	88.6	88.8	90.0	90.9	92.5	93.8	95.8
57.5°	77.3	76.5	75.3	74.9	75.3	76.5	77.3	78.8	80.7	82.5	84.5
60°	68.3	66.7	64.7	64.6	64.7	66.7	68.3	70.8	71.5	74.3	76.6
62.5°	59.9	59.7	59.2	59.2	59.2	59.7	59.9	60.8	61.9	65.9	68.7
65°	52.6	52.4	52.6	52.8	52.6	52.4	52.6	53.0	53.2	53.6	54.8
67.5°	45.8	45.5	45.1	45.3	45.1	45.5	45.8	45.9	46.5	46.7	47.5
70°	40.6	40.5	40.3	40.3	40.3	40.5	40.6	41.1	41.5	41.8	42.8
72.5°	35.6	35.6	35.5	35.3	35.5	35.6	35.6	36.4	36.6	37.0	37.6
75°	28.6	28.2	28.2	28.2	28.2	28.2	28.6	28.8	28.9	29.5	30.0
77.5°	21.8	21.5	21.4	21.2	21.4	21.5	21.8	21.8	22.1	22.2	22.6
80°	17.2	17.0	16.8	16.8	16.8	17.0	17.2	17.4	17.4	18.0	17.8
82.5°	13.2	12.9	12.9	12.7	12.9	12.9	13.2	13.2	13.2	13.6	13.6
85°	7.1	7.2	7.1	7.4	7.1	7.2	7.1	6.9	7.1	7.4	7.4
87.5°	3.4	3.4	3.5	3.4	3.5	3.4	3.4	3.4	3.5	3.5	3.4
90°	7.1	7.2	7.4	7.5	7.4	7.2	7.1	7.1	6.8	6.5	6.2
92.5°	7.3	7.4	7.4	7.5	7.4	7.4	7.3	7.2	7.1	7.0	6.8
95°	12.1	12.1	12.1	12.0	12.1	12.1	12.1	12.2	12.1	11.8	11.5
97.5°	15.8	15.8	15.9	16.0	15.9	15.8	15.8	15.7	15.5	15.2	15.1
100°	18.3	18.4	18.5	18.7	18.5	18.4	18.3	18.2	17.8	17.4	16.9
102.5°	19.5	19.6	19.8	20.0	19.8	19.6	19.5	19.3	18.9	18.3	17.6
105°	20.4	20.7	20.9	21.2	20.9	20.7	20.4	20.1	19.7	19.0	18.3
107.5°	21.0	21.3	21.5	21.8	21.5	21.3	21.0	20.8	21.0	21.7	22.4
110°	21.3	21.5	21.8	22.0	21.8	21.5	21.3	21.0	23.9	30.1	36.3



TEST NUMBER: P331615-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	21.6	21.8	22.0	22.2	22.0	21.8	21.6	21.4	32.6	55.2	77.7
115°	36.2	31.8	27.3	22.8	27.3	31.8	36.2	40.6	57.2	85.8	114.5
117.5°	137.2	122.5	107.9	93.2	107.9	122.5	137.2	151.8	162.6	169.4	176.4
120°	194.8	186.5	178.1	169.8	178.1	186.5	194.8	203.2	207.0	206.3	205.5
122.5°	216.8	215.2	213.5	211.9	213.5	215.2	216.8	218.3	219.0	218.5	218.1
125°	237.5	237.6	237.8	238.0	237.8	237.6	237.5	237.3	236.9	236.5	236.1
127.5°	254.4	254.4	254.4	254.5	254.4	254.4	254.4	254.3	254.0	253.4	252.8
130°	264.9	264.8	264.8	264.8	264.8	264.8	264.9	265.0	264.7	264.0	263.3
132.5°	274.9	274.9	274.8	274.7	274.8	274.9	274.9	275.0	274.7	274.1	273.6
135°	289.6	289.5	289.4	289.2	289.4	289.5	289.6	289.7	289.5	288.9	288.3
137.5°	303.1	302.9	302.6	302.5	302.6	302.9	303.1	303.2	303.1	302.5	301.9
140°	311.6	311.3	311.0	310.6	311.0	311.3	311.6	311.9	311.8	311.3	310.6
142.5°	319.6	319.3	319.0	318.7	319.0	319.3	319.6	319.9	319.9	319.3	318.8
145°	330.8	330.5	330.2	329.8	330.2	330.5	330.8	331.1	331.1	330.6	330.2
147.5°	340.5	340.3	340.0	339.8	340.0	340.3	340.5	340.8	340.8	340.4	340.1
150°	346.7	346.4	346.0	345.8	346.0	346.4	346.7	347.0	347.0	346.6	346.2
152.5°	352.1	351.7	351.3	350.9	351.3	351.7	352.1	352.5	352.5	352.1	351.8
155°	359.5	359.0	358.5	358.0	358.5	359.0	359.5	360.0	360.1	359.6	359.3
157.5°	365.9	365.5	365.0	364.5	365.0	365.5	365.9	366.4	366.4	366.1	365.7
160°	369.6	369.2	368.8	368.3	368.8	369.2	369.6	370.1	370.1	369.7	369.4
162.5°	373.0	372.5	372.0	371.4	372.0	372.5	373.0	373.6	373.6	373.2	372.7
165°	377.4	376.9	376.5	376.1	376.5	376.9	377.4	377.8	377.8	377.4	376.9
167.5°	380.7	380.1	379.6	379.0	379.6	380.1	380.7	381.3	381.3	380.9	380.5
170°	382.5	381.9	381.4	380.8	381.4	381.9	382.5	383.1	383.1	382.7	382.3
172.5°	383.8	383.3	382.7	382.2	382.7	383.3	383.8	384.4	384.4	384.0	383.6
175°	385.2	384.6	383.9	383.3	383.9	384.6	385.2	385.8	385.9	385.5	385.0
177.5°	385.4	385.0	384.5	384.1	384.5	385.0	385.4	385.8	385.9	385.6	385.2
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



TEST NUMBER: P331615-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	541.3	543.5	546.7	548.6	551.7	553.8	554.9	556.9	558.0	562.0	566.0
5°	511.0	514.2	519.6	524.7	530.2	535.9	540.0	544.7	549.0	556.4	564.2
7.5°	476.4	480.7	489.2	497.3	506.9	514.9	521.9	529.9	537.1	547.8	558.9
10°	450.4	458.1	469.2	476.8	489.3	497.3	508.5	517.3	527.3	541.4	553.9
12.5°	428.0	437.2	446.2	456.8	468.0	481.4	493.6	505.0	516.8	531.3	546.0
15°	387.4	400.7	414.7	425.4	440.7	454.7	469.0	484.2	498.7	516.2	535.3
17.5°	335.2	350.6	373.9	392.4	410.3	424.4	442.1	460.5	477.6	498.6	520.0
20°	311.6	322.9	338.7	363.6	390.5	405.6	423.6	443.9	463.5	486.4	509.3
22.5°	292.7	302.7	315.4	334.8	364.9	385.5	404.2	424.9	447.5	470.9	496.3
25°	265.6	272.6	285.9	301.6	322.3	356.1	376.7	397.4	422.1	447.1	476.0
27.5°	245.3	251.7	260.3	275.2	290.6	315.0	347.6	370.2	394.8	422.9	453.0
30°	229.8	237.2	246.8	257.4	274.2	293.2	325.8	352.1	376.3	405.3	437.3
32.5°	218.5	224.4	232.6	243.3	257.3	275.5	301.6	333.4	357.1	387.5	421.0
35°	200.1	206.9	213.5	223.8	235.1	251.7	271.5	305.5	329.0	359.0	392.7
37.5°	184.9	189.1	196.4	204.5	216.5	228.9	246.0	276.5	301.9	331.4	365.8
40°	173.3	178.6	184.0	193.0	202.9	214.7	231.5	254.3	283.4	312.4	345.9
42.5°	162.0	168.7	174.5	180.6	191.2	203.2	216.9	236.1	265.9	293.3	326.0
45°	148.4	152.7	158.8	165.5	174.3	184.4	196.6	213.4	241.9	265.6	296.3
47.5°	132.7	139.0	142.9	149.4	157.7	167.5	178.7	193.3	216.4	238.6	267.1
50°	121.8	128.3	134.0	139.8	147.2	156.6	166.1	180.1	198.7	222.0	248.6
52.5°	112.6	118.3	123.8	129.7	137.0	145.5	154.5	166.9	182.7	204.1	230.0
55°	100.0	103.5	109.2	115.0	121.5	129.7	138.3	148.6	162.3	180.3	201.2
57.5°	87.0	91.0	95.5	101.4	108.0	114.3	122.0	131.4	142.2	158.4	176.3
60°	79.6	82.7	86.4	92.5	98.6	104.3	111.7	119.5	129.7	143.8	159.0
62.5°	71.5	74.5	77.8	83.1	89.0	94.2	100.7	109.0	117.6	130.4	143.8
65°	57.9	62.2	65.5	70.2	75.1	80.6	85.7	92.3	100.0	110.1	122.0
67.5°	48.0	50.2	53.3	57.5	62.5	67.2	72.1	77.2	83.9	91.7	101.2
70°	43.7	44.4	44.9	49.1	53.8	58.5	62.9	67.8	73.5	80.0	88.2
72.5°	38.5	39.3	40.0	41.8	45.5	50.2	54.8	58.5	63.8	69.2	75.9
75°	30.5	31.7	32.3	33.2	34.6	37.7	42.0	45.5	48.7	52.8	58.1
77.5°	23.2	23.9	24.5	25.6	26.4	27.8	30.3	33.4	36.4	38.7	42.4
80°	18.4	18.6	19.4	19.7	20.9	21.9	23.1	25.7	28.6	29.5	32.1
82.5°	13.9	14.0	14.6	15.1	15.6	16.4	17.9	18.6	20.9	22.2	23.8
85°	7.7	7.4	8.0	8.0	8.4	8.8	9.2	10.2	10.8	12.3	12.7
87.5°	3.5	3.4	3.5	3.4	3.4	3.5	3.5	3.6	3.8	4.1	4.6
90°	5.9	5.6	5.1	4.6	4.0	3.6	3.0	2.3	1.6	0.9	0.3
92.5°	6.6	6.5	6.2	5.9	5.7	5.5	5.3	5.4	5.5	5.6	5.6
95°	11.2	10.8	10.4	10.0	9.6	9.1	9.9	12.0	14.0	16.0	18.1
97.5°	14.8	14.6	13.5	12.5	11.5	10.5	12.9	18.7	24.4	30.1	35.9
100°	16.4	15.8	14.8	13.8	12.7	11.6	15.4	23.8	32.3	40.8	49.2
102.5°	17.0	16.3	25.1	33.9	42.7	51.5	56.8	58.6	60.4	62.2	64.0
105°	17.7	17.0	33.8	50.8	67.7	84.6	92.0	90.2	88.3	86.4	84.6
107.5°	23.1	23.8	44.0	64.3	84.6	104.8	114.2	112.7	111.2	109.7	108.1
110°	42.5	48.7	66.6	84.5	102.4	120.2	128.5	127.3	126.0	124.6	123.3



TEST NUMBER: P331615-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	100.3	122.9	127.3	131.7	136.1	140.5	142.2	141.0	139.9	138.7	137.6
115°	143.1	171.8	170.2	168.7	167.1	165.6	164.3	163.2	162.2	161.1	160.1
117.5°	183.3	190.3	189.2	188.1	187.1	186.0	184.9	183.7	182.5	181.3	180.2
120°	204.8	204.1	202.9	201.8	200.7	199.6	198.5	197.7	196.7	195.8	194.8
122.5°	217.7	217.2	216.0	214.7	213.5	212.3	211.3	210.3	209.3	208.4	207.3
125°	235.7	235.2	234.0	232.9	231.7	230.6	229.5	228.8	227.9	227.1	226.4
127.5°	252.1	251.5	250.6	249.8	248.8	248.0	247.1	246.2	245.3	244.4	243.5
130°	262.6	262.0	261.3	260.6	259.9	259.2	258.4	257.4	256.4	255.5	254.4
132.5°	273.0	272.4	271.7	271.0	270.4	269.7	269.0	268.1	267.3	266.4	265.6
135°	287.7	287.1	286.5	285.9	285.3	284.8	284.0	283.0	282.1	281.0	280.1
137.5°	301.3	300.7	300.1	299.4	298.8	298.2	297.5	296.8	296.1	295.4	294.7
140°	310.1	309.5	308.9	308.2	307.5	306.9	306.3	305.7	305.2	304.8	304.3
142.5°	318.3	317.8	317.0	316.2	315.5	314.7	314.1	313.7	313.1	312.7	312.3
145°	329.8	329.3	328.3	327.3	326.1	325.1	324.6	324.7	324.8	324.9	324.9
147.5°	339.8	339.5	338.5	337.4	336.3	335.3	334.9	335.1	335.4	335.6	335.9
150°	345.9	345.5	344.5	343.5	342.5	341.6	341.2	341.6	342.1	342.5	342.9
152.5°	351.4	351.0	350.1	349.1	348.2	347.2	347.1	347.5	348.0	348.5	349.0
155°	359.0	358.5	357.8	357.1	356.4	355.6	355.5	356.0	356.6	357.1	357.7
157.5°	365.2	364.8	364.3	363.8	363.3	362.7	362.7	363.2	363.6	364.1	364.5
160°	368.9	368.6	368.2	367.8	367.5	367.1	367.1	367.5	367.8	368.2	368.6
162.5°	372.4	372.0	371.6	371.3	370.9	370.7	370.7	371.0	371.4	371.8	372.1
165°	376.5	376.1	375.9	375.7	375.6	375.4	375.5	375.8	376.2	376.6	376.9
167.5°	380.0	379.6	379.4	379.3	379.1	378.9	379.0	379.4	379.8	380.1	380.5
170°	381.9	381.4	381.3	381.2	381.0	380.9	381.0	381.4	381.8	382.1	382.5
172.5°	383.1	382.7	382.6	382.5	382.4	382.2	382.4	382.7	383.1	383.5	383.8
175°	384.6	384.2	384.1	383.9	383.8	383.7	383.8	384.3	384.7	385.1	385.6
177.5°	384.9	384.5	384.4	384.4	384.4	384.4	384.4	384.8	385.1	385.5	385.8
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



TEST NUMBER: P331615-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	566.2	566.6	569.7	571.2	573.9	575.1	576.4	576.0	576.0	576.6	581.0
5°	567.4	571.3	577.1	582.8	588.3	593.0	596.2	599.3	600.5	606.1	611.1
7.5°	565.3	572.6	582.2	590.9	601.2	609.3	616.0	622.2	626.3	634.6	643.0
10°	562.7	572.8	583.8	595.0	609.2	620.0	630.9	639.4	642.0	654.4	661.4
12.5°	557.3	570.9	584.9	599.3	613.3	628.1	640.2	648.6	658.2	669.3	682.3
15°	549.4	565.0	583.2	601.8	621.7	639.7	652.6	667.3	677.9	690.0	701.4
17.5°	538.0	558.1	581.2	602.7	625.8	645.1	662.9	676.9	684.3	691.3	692.9
20°	528.8	550.5	577.7	603.1	626.2	648.5	666.2	677.9	679.8	680.0	669.7
22.5°	519.0	543.5	572.0	598.0	625.6	650.4	664.1	669.1	661.3	648.1	628.0
25°	500.8	529.3	562.3	592.0	622.2	645.6	650.3	641.5	614.3	585.7	549.6
27.5°	481.2	513.2	548.5	581.6	613.7	628.3	618.1	586.3	537.4	494.8	443.2
30°	466.8	502.7	537.4	574.4	604.2	610.4	587.1	540.4	483.3	419.1	367.6
32.5°	450.4	487.9	526.2	564.4	589.3	583.2	544.8	487.2	420.3	357.1	308.6
35°	427.0	465.6	507.0	545.3	561.1	534.7	477.2	402.3	333.8	275.0	241.5
37.5°	399.8	442.0	484.9	520.1	519.0	475.0	396.7	319.3	261.8	227.0	203.2
40°	380.6	423.3	469.6	499.3	486.6	429.3	344.4	271.5	229.4	201.6	184.3
42.5°	362.1	404.9	451.0	474.6	452.5	382.0	297.5	240.3	205.6	184.0	169.9
45°	330.7	375.9	418.5	431.6	392.1	314.5	240.6	199.1	176.0	160.0	150.2
47.5°	300.0	344.5	383.4	383.6	330.2	255.0	202.9	172.3	152.6	140.2	133.1
50°	281.2	323.5	356.1	351.0	290.4	226.9	181.5	155.1	138.7	129.1	121.7
52.5°	260.1	301.1	329.4	315.0	256.8	199.7	162.2	140.1	126.5	118.1	111.5
55°	229.4	265.8	285.8	263.8	209.5	166.1	137.1	119.7	109.5	102.5	96.8
57.5°	199.2	229.3	241.8	216.3	172.5	137.7	116.0	102.9	92.8	87.7	84.8
60°	180.3	206.0	214.7	186.6	150.0	120.5	102.7	90.6	83.1	79.8	76.9
62.5°	161.7	182.6	186.2	160.5	130.8	105.5	90.1	79.9	75.0	71.8	69.1
65°	134.1	149.2	147.5	126.7	103.5	83.7	72.6	66.3	62.6	58.1	53.2
67.5°	110.5	119.7	114.1	98.6	79.0	65.1	57.8	53.0	48.4	44.2	43.0
70°	95.4	100.7	94.9	80.6	64.7	54.6	48.7	43.0	40.3	39.3	37.5
72.5°	81.0	82.9	76.5	64.3	52.7	45.2	39.4	36.3	34.8	34.0	32.9
75°	60.8	59.5	54.0	44.4	36.6	31.5	29.7	28.6	27.6	26.8	26.2
77.5°	42.7	40.7	35.8	29.5	25.5	23.1	22.0	21.4	20.9	20.5	19.9
80°	32.1	30.7	25.8	21.1	19.4	18.2	17.6	16.8	16.8	16.4	15.8
82.5°	23.5	22.0	17.7	15.5	14.6	13.8	13.3	12.9	12.7	12.8	12.4
85°	12.3	10.0	8.8	8.4	7.8	7.4	7.7	7.2	7.2	7.2	7.1
87.5°	4.0	3.3	3.3	3.3	3.5	3.6	3.6	3.7	4.0	3.9	4.0
90°	0.9	1.6	2.3	3.0	3.6	4.0	4.6	5.1	5.6	5.9	6.2
92.5°	5.6	5.5	5.4	5.3	5.5	5.7	5.9	6.2	6.5	6.6	6.8
95°	16.0	14.0	12.0	9.9	9.1	9.6	10.0	10.4	10.8	11.2	11.5
97.5°	30.1	24.4	18.7	12.9	10.5	11.5	12.5	13.5	14.6	14.8	15.1
100°	40.8	32.3	23.8	15.4	11.6	12.7	13.8	14.8	15.8	16.4	16.9
102.5°	62.2	60.4	58.6	56.8	51.5	42.7	33.9	25.1	16.3	17.0	17.6
105°	86.4	88.3	90.2	92.0	84.6	67.7	50.8	33.8	17.0	17.7	18.3
107.5°	109.7	111.2	112.7	114.2	104.8	84.6	64.3	44.0	23.8	23.1	22.4
110°	124.6	126.0	127.3	128.5	120.2	102.4	84.5	66.6	48.7	42.5	36.3



TEST NUMBER: P331615-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	138.7	139.9	141.0	142.2	140.5	136.1	131.7	127.3	122.9	100.3	77.7
115°	161.1	162.2	163.2	164.3	165.6	167.1	168.7	170.2	171.8	143.1	114.5
117.5°	181.3	182.5	183.7	184.9	186.0	187.1	188.1	189.2	190.3	183.3	176.4
120°	195.8	196.7	197.7	198.5	199.6	200.7	201.8	202.9	204.1	204.8	205.5
122.5°	208.4	209.3	210.3	211.3	212.3	213.5	214.7	216.0	217.2	217.7	218.1
125°	227.1	227.9	228.8	229.5	230.6	231.7	232.9	234.0	235.2	235.7	236.1
127.5°	244.4	245.3	246.2	247.1	248.0	248.8	249.8	250.6	251.5	252.1	252.8
130°	255.5	256.4	257.4	258.4	259.2	259.9	260.6	261.3	262.0	262.6	263.3
132.5°	266.4	267.3	268.1	269.0	269.7	270.4	271.0	271.7	272.4	273.0	273.6
135°	281.0	282.1	283.0	284.0	284.8	285.3	285.9	286.5	287.1	287.7	288.3
137.5°	295.4	296.1	296.8	297.5	298.2	298.8	299.4	300.1	300.7	301.3	301.9
140°	304.8	305.2	305.7	306.3	306.9	307.5	308.2	308.9	309.5	310.1	310.6
142.5°	312.7	313.1	313.7	314.1	314.7	315.5	316.2	317.0	317.8	318.3	318.8
145°	324.9	324.8	324.7	324.6	325.1	326.1	327.3	328.3	329.3	329.8	330.2
147.5°	335.6	335.4	335.1	334.9	335.3	336.3	337.4	338.5	339.5	339.8	340.1
150°	342.5	342.1	341.6	341.2	341.6	342.5	343.5	344.5	345.5	345.9	346.2
152.5°	348.5	348.0	347.5	347.1	347.2	348.2	349.1	350.1	351.0	351.4	351.8
155°	357.1	356.6	356.0	355.5	355.6	356.4	357.1	357.8	358.5	359.0	359.3
157.5°	364.1	363.6	363.2	362.7	362.7	363.3	363.8	364.3	364.8	365.2	365.7
160°	368.2	367.8	367.5	367.1	367.1	367.5	367.8	368.2	368.6	368.9	369.4
162.5°	371.8	371.4	371.0	370.7	370.7	370.9	371.3	371.6	372.0	372.4	372.7
165°	376.6	376.2	375.8	375.5	375.4	375.6	375.7	375.9	376.1	376.5	376.9
167.5°	380.1	379.8	379.4	379.0	378.9	379.1	379.3	379.4	379.6	380.0	380.5
170°	382.1	381.8	381.4	381.0	380.9	381.0	381.2	381.3	381.4	381.9	382.3
172.5°	383.5	383.1	382.7	382.4	382.2	382.4	382.5	382.6	382.7	383.1	383.6
175°	385.1	384.7	384.3	383.8	383.7	383.8	383.9	384.1	384.2	384.6	385.0
177.5°	385.5	385.1	384.8	384.4	384.4	384.4	384.4	384.4	384.5	384.9	385.2
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	582.6	584.6	585.6	585.6	586.7	586.2	585.7
5°	616.0	619.7	620.6	624.1	626.6	625.9	626.2
7.5°	649.4	655.3	661.2	663.9	664.3	665.9	666.5
10°	669.9	674.8	683.9	682.6	689.4	693.4	686.9
12.5°	689.6	696.2	702.6	704.3	708.2	709.5	706.9
15°	707.4	710.9	711.3	710.3	711.5	710.5	706.8
17.5°	690.8	685.0	673.5	668.0	663.7	657.2	654.6
20°	663.2	646.4	626.8	619.0	609.8	591.9	596.2
22.5°	603.7	584.6	565.0	542.2	531.2	514.2	513.2
25°	511.3	478.2	441.8	416.4	401.5	384.5	377.0
27.5°	397.5	355.9	326.1	311.0	297.2	283.8	283.2
30°	322.7	291.4	268.4	255.5	247.0	241.3	242.5
32.5°	272.0	250.6	235.0	224.3	218.1	213.8	213.7
35°	222.4	207.7	197.7	193.2	188.7	185.6	185.8
37.5°	190.3	181.5	175.9	171.0	168.2	166.6	165.7
40°	173.8	166.6	162.3	159.4	157.0	154.9	154.5
42.5°	160.9	154.9	150.6	148.3	146.1	144.6	144.2
45°	142.8	137.8	134.0	131.4	130.4	129.1	129.1
47.5°	127.0	122.2	119.2	117.5	115.9	114.9	114.9
50°	116.4	112.6	109.9	108.9	107.5	107.0	106.8
52.5°	106.9	104.0	102.1	101.4	100.8	100.1	100.2
55°	93.8	92.3	91.5	90.9	90.0	88.8	89.5
57.5°	83.0	81.6	79.6	77.7	76.8	75.9	76.3
60°	75.3	72.6	69.8	67.7	67.1	65.3	65.3
62.5°	65.6	61.7	58.4	57.2	56.6	55.8	55.6
65°	50.5	48.9	48.1	47.4	46.9	46.9	46.6
67.5°	41.8	41.2	40.3	40.1	39.8	39.6	39.5
70°	36.9	36.2	35.8	35.6	35.2	35.4	34.8
72.5°	32.3	31.7	31.6	31.1	30.8	30.8	30.4
75°	25.4	25.4	25.2	25.1	24.6	24.5	24.6
77.5°	19.5	19.6	19.3	19.2	19.2	19.2	19.0
80°	15.7	15.8	15.7	15.4	15.2	15.4	15.2
82.5°	12.4	12.1	12.1	12.0	12.0	11.9	11.8
85°	7.1	7.2	7.1	6.9	6.9	6.9	7.1
87.5°	4.0	4.0	4.0	4.0	4.1	4.1	4.0
90°	6.5	6.8	7.1	7.1	7.2	7.4	7.5
92.5°	7.0	7.1	7.2	7.3	7.4	7.4	7.5
95°	11.8	12.1	12.2	12.1	12.1	12.1	12.0
97.5°	15.2	15.5	15.7	15.8	15.8	15.9	16.0
100°	17.4	17.8	18.2	18.3	18.4	18.5	18.7
102.5°	18.3	18.9	19.3	19.5	19.6	19.8	20.0
105°	19.0	19.7	20.1	20.4	20.7	20.9	21.2
107.5°	21.7	21.0	20.8	21.0	21.3	21.5	21.8
110°	30.1	23.9	21.0	21.3	21.5	21.8	22.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	55.2	32.6	21.4	21.6	21.8	22.0	22.2
115°	85.8	57.2	40.6	36.2	31.8	27.3	22.8
117.5°	169.4	162.6	151.8	137.2	122.5	107.9	93.2
120°	206.3	207.0	203.2	194.8	186.5	178.1	169.8
122.5°	218.5	219.0	218.3	216.8	215.2	213.5	211.9
125°	236.5	236.9	237.3	237.5	237.6	237.8	238.0
127.5°	253.4	254.0	254.3	254.4	254.4	254.4	254.5
130°	264.0	264.7	265.0	264.9	264.8	264.8	264.8
132.5°	274.1	274.7	275.0	274.9	274.9	274.8	274.7
135°	288.9	289.5	289.7	289.6	289.5	289.4	289.2
137.5°	302.5	303.1	303.2	303.1	302.9	302.6	302.5
140°	311.3	311.8	311.9	311.6	311.3	311.0	310.6
142.5°	319.3	319.9	319.9	319.6	319.3	319.0	318.7
145°	330.6	331.1	331.1	330.8	330.5	330.2	329.8
147.5°	340.4	340.8	340.8	340.5	340.3	340.0	339.8
150°	346.6	347.0	347.0	346.7	346.4	346.0	345.8
152.5°	352.1	352.5	352.5	352.1	351.7	351.3	350.9
155°	359.6	360.1	360.0	359.5	359.0	358.5	358.0
157.5°	366.1	366.4	366.4	365.9	365.5	365.0	364.5
160°	369.7	370.1	370.1	369.6	369.2	368.8	368.3
162.5°	373.2	373.6	373.6	373.0	372.5	372.0	371.4
165°	377.4	377.8	377.8	377.4	376.9	376.5	376.1
167.5°	380.9	381.3	381.3	380.7	380.1	379.6	379.0
170°	382.7	383.1	383.1	382.5	381.9	381.4	380.8
172.5°	384.0	384.4	384.4	383.8	383.3	382.7	382.2
175°	385.5	385.9	385.8	385.2	384.6	383.9	383.3
177.5°	385.6	385.9	385.8	385.4	385.0	384.5	384.1
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7

(END OF REPORT)