

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: P331616-935

Luminaire Tested: **S122RDIP-S290D330U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331616-935
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: S122RDIP-S290D330U935-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1982.1 lumens
Efficiency: N/A
Efficacy: 97.6 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: General Diffuse

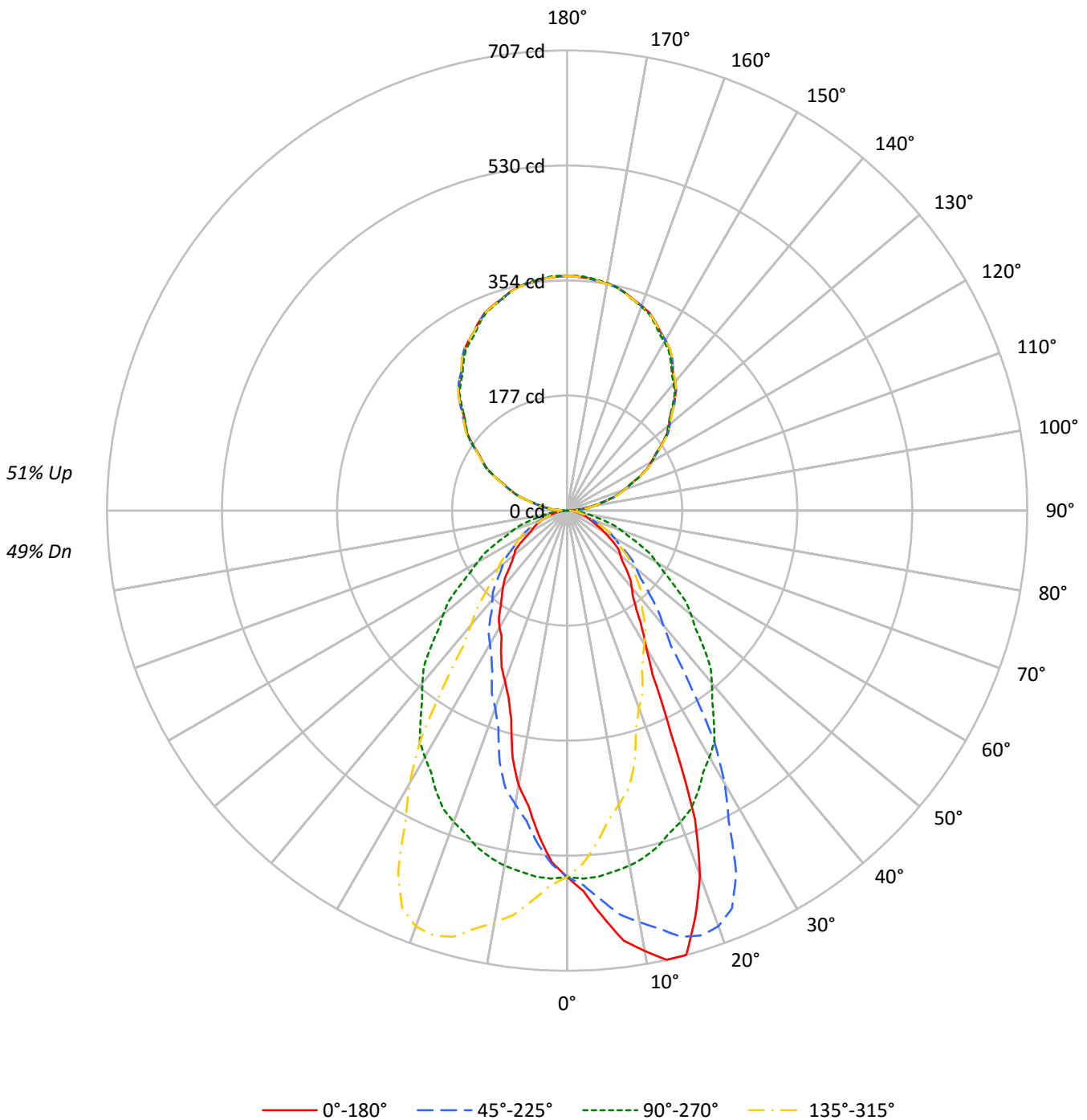
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	94	91	87	91	87	84	81	74	72	70	61	60	59	50	49	48	43
2	90	83	78	73	83	77	72	68	66	62	59	55	52	50	45	43	42	37
3	83	74	67	62	76	69	63	58	59	54	50	49	46	43	41	38	37	33
4	76	66	59	53	70	61	55	50	53	48	44	45	41	38	37	34	32	29
5	70	59	52	46	65	55	48	43	48	42	38	40	37	34	34	31	29	26
6	65	54	46	40	60	50	43	38	43	38	34	37	33	30	31	28	26	23
7	60	49	41	36	56	46	39	34	40	34	30	34	30	27	29	26	23	21
8	56	44	37	32	52	42	35	30	36	31	27	31	27	24	26	23	21	19
9	53	41	34	29	49	38	32	27	33	28	25	29	25	22	25	22	19	17
10	49	38	31	26	46	35	29	25	31	26	23	27	23	20	23	20	18	16

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



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	2.7
10°-20°	148.7	7.5
20°-30°	191.6	9.7
30°-40°	182.1	9.2
40°-50°	156.0	7.9
50°-60°	118.8	6.0
60°-70°	75.1	3.8
70°-80°	37.5	1.9
80°-90°	11.2	0.6
90°-100°	22.8	1.2
100°-110°	70.9	3.6
110°-120°	121.3	6.1
120°-130°	159.5	8.0
130°-140°	179.0	9.0
140°-150°	175.5	8.9
150°-160°	147.2	7.4
160°-170°	97.6	4.9
170°-180°	34.1	1.7
0°-30°	393.6	19.9
0°-40°	575.7	29.0
0°-60°	850.4	42.9
0°-90°	974.2	49.1
90°-120°	215.0	10.8
90°-150°	729.0	36.8
90°-180°	1008.0	50.9
0°-180°	1982.1	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°	10	0	10	0	10	5
95°	19	16	19	16	19	21
105°	68	65	68	65	68	71
115°	122	122	122	122	122	120
125°	178	177	178	177	178	158
135°	232	229	232	229	232	178
145°	281	278	281	278	281	176
155°	320	318	320	318	320	147
165°	346	346	346	346	346	98
175°	359	360	359	360	359	34
180°	360	360	360	360	360	



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

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°	4.6	4.7	4.7	4.6	4.6	4.6	4.7	4.9	4.7	4.9	4.5
90°	10.3	10.2	10.2	10.2	10.1	10.1	10.2	10.4	10.5	10.7	9.1
92.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.7	9.7	9.7	9.6	9.3
95°	18.9	19.0	19.1	19.3	19.4	19.5	19.5	19.5	19.5	19.5	19.4
97.5°	32.6	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.5
100°	41.7	41.8	41.8	41.8	41.9	42.0	42.0	42.0	42.0	42.0	41.8
102.5°	51.9	52.0	52.0	52.1	52.2	52.2	52.1	52.1	52.0	51.9	51.7
105°	67.5	67.5	67.5	67.5	67.5	67.5	67.3	67.2	67.1	66.9	66.8
107.5°	82.2	82.6	82.9	83.2	83.5	83.6	83.6	83.5	83.4	83.4	83.4
110°	93.7	93.9	94.1	94.3	94.5	94.6	94.6	94.6	94.6	94.6	94.6



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	104.6	104.8	105.0	105.1	105.2	105.4	105.6	105.7	105.9	106.1	106.1
115°	121.7	121.9	122.1	122.3	122.5	122.6	122.7	122.8	122.9	122.9	123.0
117.5°	137.9	138.1	138.4	138.5	138.7	138.9	139.1	139.2	139.4	139.6	139.9
120°	149.4	149.6	149.7	150.0	150.2	150.2	150.2	150.2	150.2	150.2	150.8
122.5°	160.6	160.7	160.8	161.0	161.2	161.3	161.4	161.6	161.8	162.0	162.3
125°	177.6	177.7	177.8	177.9	177.9	178.1	178.2	178.5	178.7	178.8	179.1
127.5°	193.2	193.5	193.6	193.9	194.1	194.3	194.6	194.8	195.0	195.3	195.5
130°	204.4	204.7	204.9	205.3	205.5	205.7	205.9	206.0	206.1	206.2	206.4
132.5°	215.2	215.3	215.6	215.8	216.0	216.3	216.5	216.8	217.1	217.4	217.4
135°	231.8	232.0	232.2	232.4	232.6	232.7	232.8	232.9	232.9	233.0	232.9
137.5°	246.8	247.2	247.5	247.7	248.0	248.1	248.1	248.2	248.3	248.3	248.1
140°	257.4	257.6	257.9	258.1	258.4	258.6	258.6	258.6	258.6	258.6	258.2
142.5°	266.8	267.1	267.3	267.7	267.9	268.0	267.9	267.9	267.9	267.8	267.6
145°	281.0	281.4	281.6	281.9	282.1	282.2	282.1	282.1	282.1	282.0	281.5
147.5°	293.8	294.0	294.3	294.5	294.8	294.9	294.7	294.5	294.5	294.3	294.0
150°	302.0	302.3	302.5	302.6	302.9	302.9	302.6	302.5	302.3	302.0	301.8
152.5°	309.9	310.1	310.4	310.6	310.9	310.9	310.6	310.4	310.1	309.9	309.5
155°	320.3	320.6	320.7	320.9	321.2	321.1	320.7	320.4	320.0	319.7	319.5
157.5°	329.3	329.7	329.9	330.3	330.6	330.5	330.1	329.6	329.2	328.7	328.6
160°	334.9	335.2	335.4	335.7	336.0	336.0	335.5	335.1	334.7	334.3	334.2
162.5°	339.8	340.1	340.4	340.8	341.0	341.0	340.5	340.1	339.7	339.1	339.1
165°	346.2	346.5	346.8	347.2	347.5	347.4	347.0	346.5	346.0	345.5	345.5
167.5°	351.4	351.7	352.1	352.5	352.8	352.8	352.2	351.8	351.3	350.9	350.9
170°	354.0	354.5	354.9	355.3	355.7	355.7	355.2	354.7	354.2	353.8	353.9
172.5°	356.3	356.7	357.1	357.5	357.9	357.8	357.4	356.9	356.5	355.9	356.0
175°	358.6	359.0	359.5	359.9	360.2	360.2	359.7	359.3	358.8	358.3	358.4
177.5°	359.7	360.1	360.4	360.7	361.0	361.0	360.7	360.4	360.1	359.7	359.8
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

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°	4.2	4.0	3.8	3.4	3.4	3.4	4.0	4.6	4.1	3.8	3.7
90°	7.7	6.2	4.7	3.5	2.8	1.9	1.1	0.3	1.1	1.9	2.8
92.5°	9.0	8.6	8.3	7.8	7.2	6.6	6.0	5.4	6.0	6.6	7.2
95°	19.2	19.0	18.9	18.5	17.8	17.1	16.5	15.8	16.5	17.1	17.8
97.5°	32.2	31.9	31.7	31.3	30.7	30.0	29.5	28.9	29.5	30.0	30.7
100°	41.6	41.3	41.2	40.8	40.3	39.7	39.2	38.7	39.2	39.7	40.3
102.5°	51.4	51.1	51.0	50.5	50.1	49.7	49.2	48.8	49.2	49.7	50.1
105°	66.6	66.6	66.4	66.2	66.0	65.8	65.6	65.4	65.6	65.8	66.0
107.5°	83.4	83.4	83.4	83.3	83.0	82.7	82.4	82.1	82.4	82.7	83.0
110°	94.6	94.6	94.6	94.4	94.0	93.6	93.2	92.8	93.2	93.6	94.0



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	106.2	106.2	106.2	106.1	105.6	105.3	104.9	104.4	104.9	105.3	105.6
115°	123.1	123.3	123.5	123.3	122.9	122.5	122.1	121.7	122.1	122.5	122.9
117.5°	140.3	140.7	141.1	141.0	140.4	139.9	139.4	138.8	139.4	139.9	140.4
120°	151.4	151.9	152.4	152.4	151.9	151.4	150.8	150.2	150.8	151.4	151.9
122.5°	162.7	163.1	163.5	163.3	162.6	162.0	161.4	160.7	161.4	162.0	162.6
125°	179.3	179.4	179.7	179.4	178.8	178.2	177.6	177.0	177.6	178.2	178.8
127.5°	195.8	196.0	196.2	196.0	195.2	194.5	193.7	193.0	193.7	194.5	195.2
130°	206.6	206.6	206.8	206.4	205.5	204.7	203.8	202.9	203.8	204.7	205.5
132.5°	217.4	217.3	217.3	217.0	216.2	215.5	214.8	214.1	214.8	215.5	216.2
135°	232.7	232.6	232.5	232.0	231.3	230.6	229.8	229.0	229.8	230.6	231.3
137.5°	248.0	247.8	247.6	247.3	246.7	246.0	245.4	244.8	245.4	246.0	246.7
140°	257.9	257.5	257.2	256.8	256.1	255.5	254.9	254.3	254.9	255.5	256.1
142.5°	267.3	267.1	266.9	266.5	265.9	265.3	264.7	264.1	264.7	265.3	265.9
145°	281.2	280.8	280.3	279.9	279.5	279.0	278.5	278.0	278.5	279.0	279.5
147.5°	293.8	293.4	293.2	292.7	292.2	291.6	291.1	290.5	291.1	291.6	292.2
150°	301.5	301.3	301.0	300.7	300.2	299.8	299.5	299.0	299.5	299.8	300.2
152.5°	309.2	308.8	308.6	308.2	307.8	307.4	306.9	306.6	306.9	307.4	307.8
155°	319.3	319.1	318.9	318.7	318.5	318.3	318.1	317.9	318.1	318.3	318.5
157.5°	328.5	328.4	328.2	328.1	328.0	327.8	327.7	327.5	327.7	327.8	328.0
160°	334.2	334.1	334.1	333.9	333.8	333.6	333.6	333.4	333.6	333.6	333.8
162.5°	339.1	339.0	338.9	338.9	338.8	338.8	338.8	338.7	338.8	338.8	338.8
165°	345.5	345.5	345.5	345.6	345.7	345.7	345.8	345.9	345.8	345.7	345.7
167.5°	350.9	350.9	350.9	351.0	351.2	351.5	351.6	351.8	351.6	351.5	351.2
170°	353.9	354.0	354.0	354.2	354.4	354.6	354.8	355.0	354.8	354.6	354.4
172.5°	356.1	356.2	356.2	356.4	356.5	356.8	357.0	357.1	357.0	356.8	356.5
175°	358.6	358.8	358.9	359.0	359.2	359.5	359.6	359.9	359.6	359.5	359.2
177.5°	360.0	360.1	360.2	360.3	360.5	360.6	360.8	360.9	360.8	360.6	360.5
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

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°	3.7	3.8	3.7	4.0	4.3	4.5	4.5	4.3	4.2	4.2	4.0
90°	3.5	4.7	6.2	7.7	9.1	10.7	10.5	10.4	10.2	10.1	10.1
92.5°	7.8	8.3	8.6	9.0	9.3	9.6	9.7	9.7	9.7	9.8	9.8
95°	18.5	18.9	19.0	19.2	19.4	19.5	19.5	19.5	19.5	19.5	19.4
97.5°	31.3	31.7	31.9	32.2	32.5	32.7	32.7	32.7	32.7	32.7	32.7
100°	40.8	41.2	41.3	41.6	41.8	42.0	42.0	42.0	42.0	42.0	41.9
102.5°	50.5	51.0	51.1	51.4	51.7	51.9	52.0	52.1	52.1	52.2	52.2
105°	66.2	66.4	66.6	66.6	66.8	66.9	67.1	67.2	67.3	67.5	67.5
107.5°	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.5	83.6	83.6	83.5
110°	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.5



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	106.1	106.2	106.2	106.2	106.1	106.1	105.9	105.7	105.6	105.4	105.2
115°	123.3	123.5	123.3	123.1	123.0	122.9	122.9	122.8	122.7	122.6	122.5
117.5°	141.0	141.1	140.7	140.3	139.9	139.6	139.4	139.2	139.1	138.9	138.7
120°	152.4	152.4	151.9	151.4	150.8	150.2	150.2	150.2	150.2	150.2	150.2
122.5°	163.3	163.5	163.1	162.7	162.3	162.0	161.8	161.6	161.4	161.3	161.2
125°	179.4	179.7	179.4	179.3	179.1	178.8	178.7	178.5	178.2	178.1	177.9
127.5°	196.0	196.2	196.0	195.8	195.5	195.3	195.0	194.8	194.6	194.3	194.1
130°	206.4	206.8	206.6	206.6	206.4	206.2	206.1	206.0	205.9	205.7	205.5
132.5°	217.0	217.3	217.3	217.4	217.4	217.4	217.1	216.8	216.5	216.3	216.0
135°	232.0	232.5	232.6	232.7	232.9	233.0	232.9	232.9	232.8	232.7	232.6
137.5°	247.3	247.6	247.8	248.0	248.1	248.3	248.3	248.2	248.1	248.1	248.0
140°	256.8	257.2	257.5	257.9	258.2	258.6	258.6	258.6	258.6	258.6	258.4
142.5°	266.5	266.9	267.1	267.3	267.6	267.8	267.9	267.9	267.9	268.0	267.9
145°	279.9	280.3	280.8	281.2	281.5	282.0	282.1	282.1	282.1	282.2	282.1
147.5°	292.7	293.2	293.4	293.8	294.0	294.3	294.5	294.5	294.7	294.9	294.8
150°	300.7	301.0	301.3	301.5	301.8	302.0	302.3	302.5	302.6	302.9	302.9
152.5°	308.2	308.6	308.8	309.2	309.5	309.9	310.1	310.4	310.6	310.9	310.9
155°	318.7	318.9	319.1	319.3	319.5	319.7	320.0	320.4	320.7	321.1	321.2
157.5°	328.1	328.2	328.4	328.5	328.6	328.7	329.2	329.6	330.1	330.5	330.6
160°	333.9	334.1	334.1	334.2	334.2	334.3	334.7	335.1	335.5	336.0	336.0
162.5°	338.9	338.9	339.0	339.1	339.1	339.1	339.7	340.1	340.5	341.0	341.0
165°	345.6	345.5	345.5	345.5	345.5	345.5	346.0	346.5	347.0	347.4	347.5
167.5°	351.0	350.9	350.9	350.9	350.9	350.9	351.3	351.8	352.2	352.8	352.8
170°	354.2	354.0	354.0	353.9	353.9	353.8	354.2	354.7	355.2	355.7	355.7
172.5°	356.4	356.2	356.2	356.1	356.0	355.9	356.5	356.9	357.4	357.8	357.9
175°	359.0	358.9	358.8	358.6	358.4	358.3	358.8	359.3	359.7	360.2	360.2
177.5°	360.3	360.2	360.1	360.0	359.8	359.7	360.1	360.4	360.7	361.0	361.0
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	4.2	4.3
90°	10.2	10.2	10.2	10.3	10.2	10.2	10.2	10.1	10.1	10.2	10.4
92.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.7	9.7
95°	19.3	19.1	19.0	18.9	19.0	19.1	19.3	19.4	19.5	19.5	19.5
97.5°	32.7	32.7	32.7	32.6	32.7	32.7	32.7	32.7	32.7	32.7	32.7
100°	41.8	41.8	41.8	41.7	41.8	41.8	41.8	41.9	42.0	42.0	42.0
102.5°	52.1	52.0	52.0	51.9	52.0	52.0	52.1	52.2	52.2	52.1	52.1
105°	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.3	67.2
107.5°	83.2	82.9	82.6	82.2	82.6	82.9	83.2	83.5	83.6	83.6	83.5
110°	94.3	94.1	93.9	93.7	93.9	94.1	94.3	94.5	94.6	94.6	94.6



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	105.1	105.0	104.8	104.6	104.8	105.0	105.1	105.2	105.4	105.6	105.7
115°	122.3	122.1	121.9	121.7	121.9	122.1	122.3	122.5	122.6	122.7	122.8
117.5°	138.5	138.4	138.1	137.9	138.1	138.4	138.5	138.7	138.9	139.1	139.2
120°	150.0	149.7	149.6	149.4	149.6	149.7	150.0	150.2	150.2	150.2	150.2
122.5°	161.0	160.8	160.7	160.6	160.7	160.8	161.0	161.2	161.3	161.4	161.6
125°	177.9	177.8	177.7	177.6	177.7	177.8	177.9	177.9	178.1	178.2	178.5
127.5°	193.9	193.6	193.5	193.2	193.5	193.6	193.9	194.1	194.3	194.6	194.8
130°	205.3	204.9	204.7	204.4	204.7	204.9	205.3	205.5	205.7	205.9	206.0
132.5°	215.8	215.6	215.3	215.2	215.3	215.6	215.8	216.0	216.3	216.5	216.8
135°	232.4	232.2	232.0	231.8	232.0	232.2	232.4	232.6	232.7	232.8	232.9
137.5°	247.7	247.5	247.2	246.8	247.2	247.5	247.7	248.0	248.1	248.1	248.2
140°	258.1	257.9	257.6	257.4	257.6	257.9	258.1	258.4	258.6	258.6	258.6
142.5°	267.7	267.3	267.1	266.8	267.1	267.3	267.7	267.9	268.0	267.9	267.9
145°	281.9	281.6	281.4	281.0	281.4	281.6	281.9	282.1	282.2	282.1	282.1
147.5°	294.5	294.3	294.0	293.8	294.0	294.3	294.5	294.8	294.9	294.7	294.5
150°	302.6	302.5	302.3	302.0	302.3	302.5	302.6	302.9	302.9	302.6	302.5
152.5°	310.6	310.4	310.1	309.9	310.1	310.4	310.6	310.9	310.9	310.6	310.4
155°	320.9	320.7	320.6	320.3	320.6	320.7	320.9	321.2	321.1	320.7	320.4
157.5°	330.3	329.9	329.7	329.3	329.7	329.9	330.3	330.6	330.5	330.1	329.6
160°	335.7	335.4	335.2	334.9	335.2	335.4	335.7	336.0	336.0	335.5	335.1
162.5°	340.8	340.4	340.1	339.8	340.1	340.4	340.8	341.0	341.0	340.5	340.1
165°	347.2	346.8	346.5	346.2	346.5	346.8	347.2	347.5	347.4	347.0	346.5
167.5°	352.5	352.1	351.7	351.4	351.7	352.1	352.5	352.8	352.8	352.2	351.8
170°	355.3	354.9	354.5	354.0	354.5	354.9	355.3	355.7	355.7	355.2	354.7
172.5°	357.5	357.1	356.7	356.3	356.7	357.1	357.5	357.9	357.8	357.4	356.9
175°	359.9	359.5	359.0	358.6	359.0	359.5	359.9	360.2	360.2	359.7	359.3
177.5°	360.7	360.4	360.1	359.7	360.1	360.4	360.7	361.0	361.0	360.7	360.4
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

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°	4.5	4.5	4.3	4.0	3.7	3.8	3.7	3.7	3.8	4.1	4.6
90°	10.5	10.7	9.1	7.7	6.2	4.7	3.5	2.8	1.9	1.1	0.3
92.5°	9.7	9.6	9.3	9.0	8.6	8.3	7.8	7.2	6.6	6.0	5.4
95°	19.5	19.5	19.4	19.2	19.0	18.9	18.5	17.8	17.1	16.5	15.8
97.5°	32.7	32.7	32.5	32.2	31.9	31.7	31.3	30.7	30.0	29.5	28.9
100°	42.0	42.0	41.8	41.6	41.3	41.2	40.8	40.3	39.7	39.2	38.7
102.5°	52.0	51.9	51.7	51.4	51.1	51.0	50.5	50.1	49.7	49.2	48.8
105°	67.1	66.9	66.8	66.6	66.6	66.4	66.2	66.0	65.8	65.6	65.4
107.5°	83.4	83.4	83.4	83.4	83.4	83.4	83.3	83.0	82.7	82.4	82.1
110°	94.6	94.6	94.6	94.6	94.6	94.6	94.4	94.0	93.6	93.2	92.8



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	105.9	106.1	106.1	106.2	106.2	106.2	106.1	105.6	105.3	104.9	104.4
115°	122.9	122.9	123.0	123.1	123.3	123.5	123.3	122.9	122.5	122.1	121.7
117.5°	139.4	139.6	139.9	140.3	140.7	141.1	141.0	140.4	139.9	139.4	138.8
120°	150.2	150.2	150.8	151.4	151.9	152.4	152.4	151.9	151.4	150.8	150.2
122.5°	161.8	162.0	162.3	162.7	163.1	163.5	163.3	162.6	162.0	161.4	160.7
125°	178.7	178.8	179.1	179.3	179.4	179.7	179.4	178.8	178.2	177.6	177.0
127.5°	195.0	195.3	195.5	195.8	196.0	196.2	196.0	195.2	194.5	193.7	193.0
130°	206.1	206.2	206.4	206.6	206.6	206.8	206.4	205.5	204.7	203.8	202.9
132.5°	217.1	217.4	217.4	217.4	217.3	217.3	217.0	216.2	215.5	214.8	214.1
135°	232.9	233.0	232.9	232.7	232.6	232.5	232.0	231.3	230.6	229.8	229.0
137.5°	248.3	248.3	248.1	248.0	247.8	247.6	247.3	246.7	246.0	245.4	244.8
140°	258.6	258.6	258.2	257.9	257.5	257.2	256.8	256.1	255.5	254.9	254.3
142.5°	267.9	267.8	267.6	267.3	267.1	266.9	266.5	265.9	265.3	264.7	264.1
145°	282.1	282.0	281.5	281.2	280.8	280.3	279.9	279.5	279.0	278.5	278.0
147.5°	294.5	294.3	294.0	293.8	293.4	293.2	292.7	292.2	291.6	291.1	290.5
150°	302.3	302.0	301.8	301.5	301.3	301.0	300.7	300.2	299.8	299.5	299.0
152.5°	310.1	309.9	309.5	309.2	308.8	308.6	308.2	307.8	307.4	306.9	306.6
155°	320.0	319.7	319.5	319.3	319.1	318.9	318.7	318.5	318.3	318.1	317.9
157.5°	329.2	328.7	328.6	328.5	328.4	328.2	328.1	328.0	327.8	327.7	327.5
160°	334.7	334.3	334.2	334.2	334.1	334.1	333.9	333.8	333.6	333.6	333.4
162.5°	339.7	339.1	339.1	339.1	339.0	338.9	338.9	338.8	338.8	338.8	338.7
165°	346.0	345.5	345.5	345.5	345.5	345.5	345.6	345.7	345.7	345.8	345.9
167.5°	351.3	350.9	350.9	350.9	350.9	350.9	351.0	351.2	351.5	351.6	351.8
170°	354.2	353.8	353.9	353.9	354.0	354.0	354.2	354.4	354.6	354.8	355.0
172.5°	356.5	355.9	356.0	356.1	356.2	356.2	356.4	356.5	356.8	357.0	357.1
175°	358.8	358.3	358.4	358.6	358.8	358.9	359.0	359.2	359.5	359.6	359.9
177.5°	360.1	359.7	359.8	360.0	360.1	360.2	360.3	360.5	360.6	360.8	360.9
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

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	3.4	3.4	3.4	3.8	4.0	4.2	4.5	4.9	4.7	4.9
90°	1.1	1.9	2.8	3.5	4.7	6.2	7.7	9.1	10.7	10.5	10.4
92.5°	6.0	6.6	7.2	7.8	8.3	8.6	9.0	9.3	9.6	9.7	9.7
95°	16.5	17.1	17.8	18.5	18.9	19.0	19.2	19.4	19.5	19.5	19.5
97.5°	29.5	30.0	30.7	31.3	31.7	31.9	32.2	32.5	32.7	32.7	32.7
100°	39.2	39.7	40.3	40.8	41.2	41.3	41.6	41.8	42.0	42.0	42.0
102.5°	49.2	49.7	50.1	50.5	51.0	51.1	51.4	51.7	51.9	52.0	52.1
105°	65.6	65.8	66.0	66.2	66.4	66.6	66.6	66.8	66.9	67.1	67.2
107.5°	82.4	82.7	83.0	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.5
110°	93.2	93.6	94.0	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	104.9	105.3	105.6	106.1	106.2	106.2	106.2	106.1	106.1	105.9	105.7
115°	122.1	122.5	122.9	123.3	123.5	123.3	123.1	123.0	122.9	122.9	122.8
117.5°	139.4	139.9	140.4	141.0	141.1	140.7	140.3	139.9	139.6	139.4	139.2
120°	150.8	151.4	151.9	152.4	152.4	151.9	151.4	150.8	150.2	150.2	150.2
122.5°	161.4	162.0	162.6	163.3	163.5	163.1	162.7	162.3	162.0	161.8	161.6
125°	177.6	178.2	178.8	179.4	179.7	179.4	179.3	179.1	178.8	178.7	178.5
127.5°	193.7	194.5	195.2	196.0	196.2	196.0	195.8	195.5	195.3	195.0	194.8
130°	203.8	204.7	205.5	206.4	206.8	206.6	206.6	206.4	206.2	206.1	206.0
132.5°	214.8	215.5	216.2	217.0	217.3	217.3	217.4	217.4	217.4	217.1	216.8
135°	229.8	230.6	231.3	232.0	232.5	232.6	232.7	232.9	233.0	232.9	232.9
137.5°	245.4	246.0	246.7	247.3	247.6	247.8	248.0	248.1	248.3	248.3	248.2
140°	254.9	255.5	256.1	256.8	257.2	257.5	257.9	258.2	258.6	258.6	258.6
142.5°	264.7	265.3	265.9	266.5	266.9	267.1	267.3	267.6	267.8	267.9	267.9
145°	278.5	279.0	279.5	279.9	280.3	280.8	281.2	281.5	282.0	282.1	282.1
147.5°	291.1	291.6	292.2	292.7	293.2	293.4	293.8	294.0	294.3	294.5	294.5
150°	299.5	299.8	300.2	300.7	301.0	301.3	301.5	301.8	302.0	302.3	302.5
152.5°	306.9	307.4	307.8	308.2	308.6	308.8	309.2	309.5	309.9	310.1	310.4
155°	318.1	318.3	318.5	318.7	318.9	319.1	319.3	319.5	319.7	320.0	320.4
157.5°	327.7	327.8	328.0	328.1	328.2	328.4	328.5	328.6	328.7	329.2	329.6
160°	333.6	333.6	333.8	333.9	334.1	334.1	334.2	334.2	334.3	334.7	335.1
162.5°	338.8	338.8	338.8	338.9	338.9	339.0	339.1	339.1	339.1	339.7	340.1
165°	345.8	345.7	345.7	345.6	345.5	345.5	345.5	345.5	345.5	346.0	346.5
167.5°	351.6	351.5	351.2	351.0	350.9	350.9	350.9	350.9	350.9	351.3	351.8
170°	354.8	354.6	354.4	354.2	354.0	354.0	353.9	353.9	353.8	354.2	354.7
172.5°	357.0	356.8	356.5	356.4	356.2	356.2	356.1	356.0	355.9	356.5	356.9
175°	359.6	359.5	359.2	359.0	358.9	358.8	358.6	358.4	358.3	358.8	359.3
177.5°	360.8	360.6	360.5	360.3	360.2	360.1	360.0	359.8	359.7	360.1	360.4
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

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°	4.7	4.6	4.6	4.6	4.7	4.7	4.6
90°	10.2	10.1	10.1	10.2	10.2	10.2	10.3
92.5°	9.7	9.8	9.8	9.8	9.8	9.8	9.8
95°	19.5	19.5	19.4	19.3	19.1	19.0	18.9
97.5°	32.7	32.7	32.7	32.7	32.7	32.7	32.6
100°	42.0	42.0	41.9	41.8	41.8	41.8	41.7
102.5°	52.1	52.2	52.2	52.1	52.0	52.0	51.9
105°	67.3	67.5	67.5	67.5	67.5	67.5	67.5
107.5°	83.6	83.6	83.5	83.2	82.9	82.6	82.2
110°	94.6	94.6	94.5	94.3	94.1	93.9	93.7



TEST NUMBER: P331616-935

CATALOG NUMBER: S122RDIP-S290D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	105.6	105.4	105.2	105.1	105.0	104.8	104.6
115°	122.7	122.6	122.5	122.3	122.1	121.9	121.7
117.5°	139.1	138.9	138.7	138.5	138.4	138.1	137.9
120°	150.2	150.2	150.2	150.0	149.7	149.6	149.4
122.5°	161.4	161.3	161.2	161.0	160.8	160.7	160.6
125°	178.2	178.1	177.9	177.9	177.8	177.7	177.6
127.5°	194.6	194.3	194.1	193.9	193.6	193.5	193.2
130°	205.9	205.7	205.5	205.3	204.9	204.7	204.4
132.5°	216.5	216.3	216.0	215.8	215.6	215.3	215.2
135°	232.8	232.7	232.6	232.4	232.2	232.0	231.8
137.5°	248.1	248.1	248.0	247.7	247.5	247.2	246.8
140°	258.6	258.6	258.4	258.1	257.9	257.6	257.4
142.5°	267.9	268.0	267.9	267.7	267.3	267.1	266.8
145°	282.1	282.2	282.1	281.9	281.6	281.4	281.0
147.5°	294.7	294.9	294.8	294.5	294.3	294.0	293.8
150°	302.6	302.9	302.9	302.6	302.5	302.3	302.0
152.5°	310.6	310.9	310.9	310.6	310.4	310.1	309.9
155°	320.7	321.1	321.2	320.9	320.7	320.6	320.3
157.5°	330.1	330.5	330.6	330.3	329.9	329.7	329.3
160°	335.5	336.0	336.0	335.7	335.4	335.2	334.9
162.5°	340.5	341.0	341.0	340.8	340.4	340.1	339.8
165°	347.0	347.4	347.5	347.2	346.8	346.5	346.2
167.5°	352.2	352.8	352.8	352.5	352.1	351.7	351.4
170°	355.2	355.7	355.7	355.3	354.9	354.5	354.0
172.5°	357.4	357.8	357.9	357.5	357.1	356.7	356.3
175°	359.7	360.2	360.2	359.9	359.5	359.0	358.6
177.5°	360.7	361.0	361.0	360.7	360.4	360.1	359.7
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5

(END OF REPORT)