

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: P331766

Luminaire Tested: **S122RDIW-S290D435U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331766
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-S290D435U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2633.1 lumens
Efficiency: N/A
Efficacy: 114.5 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

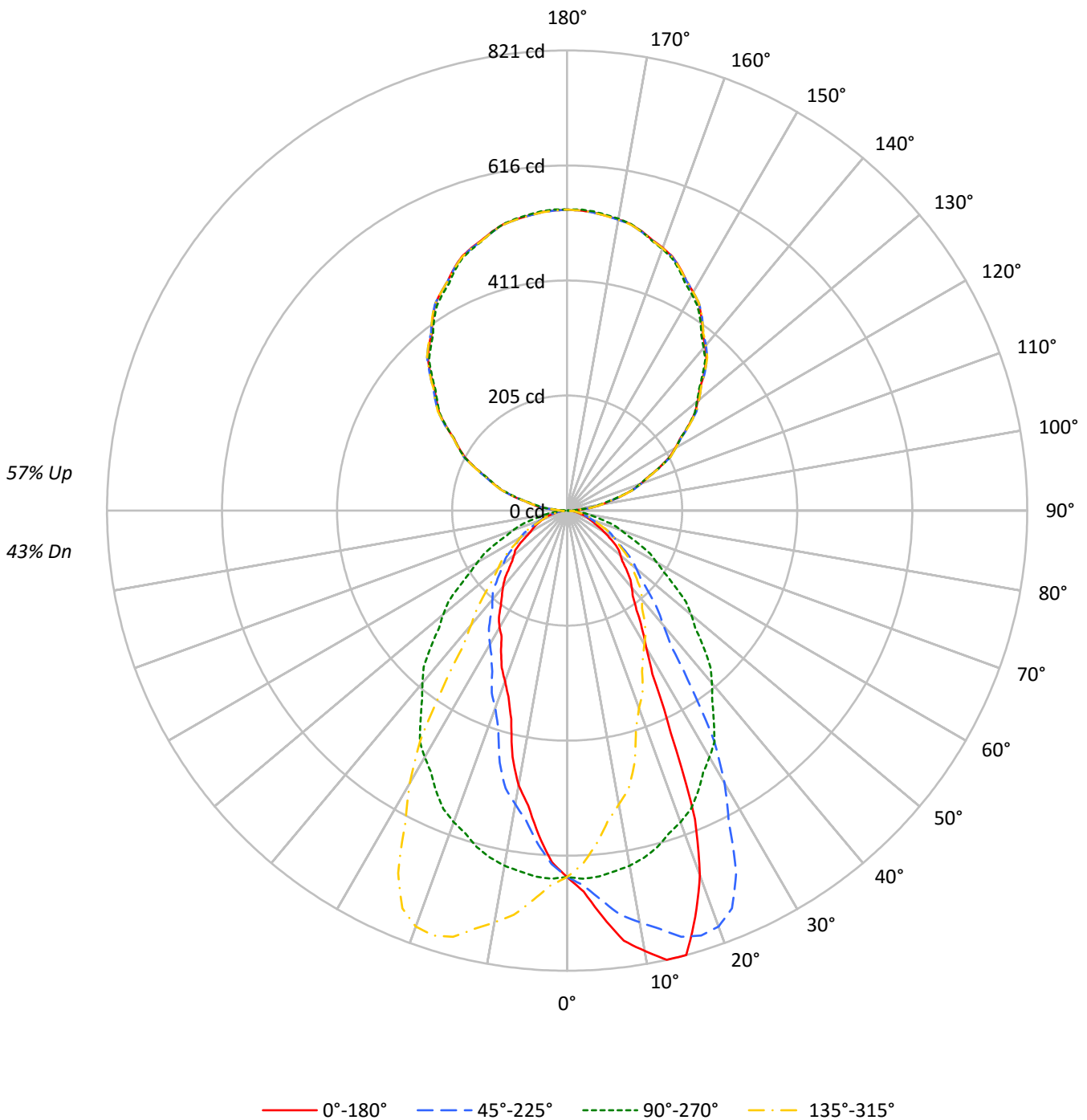
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	97	93	89	86	88	85	82	79	71	68	66	57	56	54	45	44	43	37
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	40	39	37	33
3	81	73	66	60	74	67	61	56	56	52	48	46	43	40	36	34	33	28
4	75	65	57	52	68	60	53	48	50	45	42	41	38	35	33	31	29	25
5	69	58	50	45	63	54	47	42	45	40	36	37	34	31	30	28	26	22
6	64	52	45	39	58	48	42	37	41	36	32	34	30	28	28	25	23	20
7	59	48	40	35	54	44	37	33	37	32	29	31	28	25	26	23	21	18
8	55	43	36	31	50	40	34	29	34	29	26	29	25	22	24	21	19	17
9	51	40	33	28	47	37	31	26	32	27	23	27	23	20	22	19	17	15
10	48	37	30	25	44	34	28	24	29	24	21	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10555	10555	10555	10555
5°	11788	10621	9418	10621
10°	13080	10547	8163	10547
15°	13722	10392	6432	10392
20°	11897	10163	5565	10163
25°	7801	9850	4969	9850
30°	5252	9469	4497	9469
35°	4254	8990	4056	8990
40°	3781	8469	3754	8469
45°	3423	7857	3350	7857
50°	3115	7252	3105	7252
55°	2928	6579	2891	6579
60°	2451	5964	2422	5964
65°	2067	5414	2342	5414
70°	1907	4834	2209	4834
75°	1784	4211	2040	4211
80°	1646	3468	1813	3468
85°	1519	2742	1593	2742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	2.4
10°-20°	172.7	6.6
20°-30°	222.5	8.5
30°-40°	211.5	8.0
40°-50°	181.1	6.9
50°-60°	137.9	5.2
60°-70°	87.2	3.3
70°-80°	43.5	1.7
80°-90°	13.5	0.5
90°-100°	34.0	1.3
100°-110°	105.7	4.0
110°-120°	180.6	6.9
120°-130°	237.5	9.0
130°-140°	266.6	10.1
140°-150°	261.4	9.9
150°-160°	219.2	8.3
160°-170°	145.4	5.5
170°-180°	50.8	1.9
0°-30°	457.2	17.4
0°-40°	668.6	25.4
0°-60°	987.7	37.5
0°-90°	1132.0	43.0
90°-120°	320.3	12.2
90°-150°	1085.7	41.2
90°-180°	1501.0	57.0
0°-180°	2633.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	654	654	654	654	654	
5°	727	655	581	655	727	72
15°	821	622	385	622	821	221
25°	438	553	279	553	438	208
35°	216	456	206	456	216	138
45°	150	344	147	344	150	116
55°	104	234	103	234	104	91
65°	54	142	61	142	54	55
75°	29	68	33	68	29	30
85°	8	15	9	15	8	9
90°	15	0	15	0	15	7
95°	28	24	28	24	28	31
105°	101	97	101	97	101	106
115°	181	181	181	181	181	179
125°	265	264	265	264	265	236
135°	345	341	345	341	345	266
145°	419	414	419	414	419	261
155°	477	473	477	473	477	220
165°	516	515	516	515	516	145
175°	534	536	534	536	534	51
180°	537	537	537	537	537	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	680.3	680.8	681.4	680.1	680.1	679.0	676.6	674.8	669.7	669.0	669.0
5°	727.3	726.9	727.8	724.8	720.8	719.8	715.5	709.8	703.9	697.4	696.0
7.5°	774.1	773.4	771.6	771.1	768.0	761.1	754.2	746.8	737.0	727.4	722.6
10°	797.8	805.3	800.7	792.8	794.3	783.7	778.0	768.2	760.0	745.7	742.6
12.5°	821.0	824.0	822.5	818.0	816.0	808.6	800.9	792.4	777.3	764.5	753.3
15°	820.9	825.2	826.4	825.0	826.1	825.7	821.6	814.6	801.4	787.3	775.0
17.5°	760.3	763.3	770.8	775.8	782.2	795.6	802.3	804.8	802.9	794.8	786.2
20°	692.4	687.4	708.3	718.9	728.0	750.7	770.3	777.8	789.8	789.6	787.3
22.5°	596.0	597.2	617.0	629.7	656.2	679.0	701.2	729.4	752.7	768.1	777.1
25°	437.9	446.6	466.3	483.6	513.1	555.4	593.8	638.3	680.3	713.5	745.1
27.5°	328.9	329.6	345.2	361.2	378.7	413.3	461.7	514.8	574.7	624.2	681.0
30°	281.7	280.3	286.9	296.7	311.7	338.5	374.8	427.0	486.8	561.3	627.6
32.5°	248.2	248.3	253.3	260.5	272.9	291.0	315.9	358.4	414.8	488.1	565.8
35°	215.8	215.6	219.2	224.4	229.6	241.2	258.3	280.5	319.4	387.7	467.2
37.5°	192.5	193.5	195.3	198.6	204.3	210.8	221.0	236.0	263.6	304.1	370.9
40°	179.4	179.9	182.4	185.1	188.5	193.5	201.9	214.0	234.2	266.4	315.3
42.5°	167.5	167.9	169.7	172.2	174.9	179.9	186.9	197.3	213.7	238.8	279.1
45°	149.9	149.9	151.5	152.6	155.6	160.1	165.8	174.5	185.8	204.4	231.2
47.5°	133.5	133.5	134.6	136.5	138.4	141.9	147.5	154.6	162.8	177.2	200.1
50°	124.0	124.3	124.9	126.5	127.7	130.8	135.2	141.3	149.9	161.1	180.1
52.5°	116.4	116.3	117.1	117.8	118.6	120.8	124.1	129.5	137.2	146.9	162.7
55°	104.0	103.1	104.5	105.6	106.3	107.2	109.0	112.4	119.0	127.2	139.0
57.5°	88.6	88.2	89.2	90.2	92.4	94.8	96.4	98.5	101.9	107.8	119.5
60°	75.9	75.9	77.9	78.6	81.1	84.3	87.5	89.3	92.7	96.5	105.2
62.5°	64.6	64.8	65.7	66.4	67.8	71.7	76.2	80.2	83.4	87.1	92.8
65°	54.1	54.5	54.5	55.0	55.9	56.8	58.6	61.8	67.5	72.7	77.0
67.5°	45.9	46.0	46.2	46.6	46.8	47.8	48.6	50.0	51.3	56.2	61.6
70°	40.4	41.1	40.9	41.3	41.6	42.0	42.9	43.6	45.7	46.8	50.0
72.5°	35.3	35.8	35.8	36.1	36.7	36.8	37.5	38.2	39.5	40.4	42.2
75°	28.6	28.4	28.6	29.1	29.3	29.5	29.5	30.4	31.1	32.0	33.2
77.5°	22.1	22.3	22.3	22.3	22.4	22.8	22.7	23.1	23.8	24.3	24.8
80°	17.7	17.9	17.7	17.9	18.2	18.4	18.2	18.4	19.1	19.5	19.5
82.5°	13.7	13.8	13.9	13.9	14.0	14.0	14.4	14.4	14.9	14.8	15.0
85°	8.2	8.0	8.0	8.0	8.2	8.4	8.2	8.2	8.4	8.4	8.4
87.5°	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.4	6.2	6.4	5.8
90°	15.4	15.3	15.2	15.1	15.0	15.1	15.3	15.5	15.7	15.9	13.6
92.5°	14.7	14.7	14.6	14.6	14.6	14.6	14.5	14.5	14.4	14.4	13.9
95°	28.1	28.3	28.5	28.7	28.9	29.0	29.0	29.0	29.0	29.0	28.8
97.5°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.4
100°	62.1	62.2	62.3	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.2
102.5°	77.3	77.4	77.5	77.6	77.7	77.7	77.6	77.5	77.5	77.4	77.0
105°	100.6	100.6	100.6	100.6	100.6	100.5	100.3	100.1	99.9	99.7	99.5
107.5°	122.5	123.0	123.4	123.9	124.4	124.6	124.5	124.4	124.3	124.2	124.2
110°	139.5	139.8	140.1	140.4	140.7	140.9	140.9	140.9	140.9	140.9	140.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	155.9	156.1	156.3	156.5	156.7	157.0	157.2	157.5	157.7	157.9	158.0
115°	181.2	181.5	181.8	182.1	182.4	182.6	182.7	182.8	182.9	183.0	183.2
117.5°	205.4	205.7	206.0	206.3	206.6	206.9	207.1	207.4	207.6	207.9	208.4
120°	222.5	222.8	223.1	223.4	223.7	223.8	223.8	223.8	223.8	223.8	224.6
122.5°	239.1	239.3	239.6	239.8	240.0	240.2	240.5	240.7	241.0	241.2	241.8
125°	264.6	264.7	264.8	264.9	265.0	265.2	265.5	265.8	266.1	266.4	266.7
127.5°	287.8	288.1	288.4	288.7	289.1	289.4	289.8	290.1	290.5	290.9	291.2
130°	304.5	304.9	305.3	305.7	306.1	306.4	306.6	306.8	307.0	307.2	307.4
132.5°	320.4	320.7	321.0	321.4	321.7	322.1	322.5	323.0	323.4	323.8	323.8
135°	345.2	345.5	345.8	346.1	346.4	346.6	346.7	346.8	346.9	347.0	346.8
137.5°	367.7	368.1	368.5	368.9	369.3	369.6	369.6	369.7	369.8	369.9	369.6
140°	383.3	383.7	384.1	384.5	384.9	385.1	385.1	385.1	385.1	385.1	384.6
142.5°	397.4	397.8	398.2	398.6	399.0	399.2	399.1	399.0	399.0	398.9	398.5
145°	418.6	419.0	419.4	419.8	420.2	420.4	420.3	420.2	420.1	420.0	419.4
147.5°	437.6	437.9	438.3	438.7	439.1	439.2	439.0	438.7	438.5	438.3	437.9
150°	449.9	450.2	450.5	450.8	451.1	451.1	450.8	450.5	450.2	449.9	449.5
152.5°	461.5	461.9	462.2	462.6	463.0	463.0	462.6	462.2	461.9	461.5	461.0
155°	477.1	477.4	477.7	478.0	478.3	478.2	477.7	477.2	476.7	476.2	475.9
157.5°	490.5	491.0	491.4	491.9	492.4	492.3	491.6	490.9	490.3	489.6	489.4
160°	498.8	499.2	499.6	500.0	500.4	500.3	499.7	499.1	498.5	497.9	497.8
162.5°	506.1	506.5	507.0	507.5	508.0	507.9	507.2	506.5	505.8	505.2	505.1
165°	515.6	516.1	516.6	517.1	517.6	517.5	516.8	516.1	515.4	514.7	514.7
167.5°	523.4	523.9	524.4	524.9	525.5	525.4	524.7	524.0	523.3	522.6	522.6
170°	527.4	528.0	528.6	529.2	529.8	529.7	529.0	528.3	527.6	526.9	527.0
172.5°	530.6	531.2	531.8	532.4	533.0	533.0	532.3	531.6	530.9	530.2	530.3
175°	534.2	534.8	535.4	536.0	536.6	536.5	535.8	535.1	534.4	533.7	533.9
177.5°	535.8	536.3	536.8	537.2	537.7	537.7	537.2	536.8	536.3	535.8	535.9
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	669.4	667.9	666.6	663.4	661.7	658.1	657.6	657.4	652.7	648.1	646.8
5°	692.4	688.7	683.3	676.9	670.3	663.5	659.0	655.3	646.2	637.6	632.6
7.5°	715.5	707.7	698.3	686.3	676.2	665.0	656.6	649.1	636.2	623.8	615.5
10°	732.8	720.1	707.6	691.0	678.0	665.3	653.5	643.3	628.8	612.4	600.8
12.5°	743.5	729.5	712.3	696.1	679.3	663.1	647.3	634.2	617.1	600.2	586.5
15°	758.0	743.0	722.1	698.9	677.4	656.2	638.1	621.7	599.5	579.2	562.4
17.5°	769.9	749.2	726.8	700.0	675.0	648.2	624.8	603.9	579.1	554.7	534.9
20°	773.7	753.2	727.3	700.5	671.0	639.4	614.2	591.5	564.9	538.3	515.6
22.5°	771.3	755.4	726.6	694.5	664.3	631.3	602.8	576.4	546.9	519.8	493.5
25°	755.3	749.8	722.6	687.6	653.1	614.7	581.7	552.9	519.3	490.2	461.6
27.5°	717.9	729.7	712.8	675.5	637.1	596.0	558.9	526.1	491.2	458.5	430.0
30°	681.9	708.9	701.7	667.1	624.2	583.8	542.2	507.9	470.7	437.0	408.9
32.5°	632.7	677.3	684.4	655.5	611.1	566.7	523.1	489.0	450.1	414.7	387.2
35°	554.2	621.0	651.7	633.3	588.8	540.8	495.9	456.1	417.0	382.1	354.8
37.5°	460.7	551.7	602.8	604.1	563.2	513.4	464.4	424.9	384.9	350.6	321.1
40°	400.0	498.6	565.2	579.9	545.4	491.6	442.0	401.8	362.8	329.1	295.3
42.5°	345.5	443.7	525.5	551.2	523.8	470.3	420.6	378.6	340.6	308.8	274.2
45°	279.4	365.3	455.4	501.3	486.1	436.6	384.1	344.1	308.5	281.0	247.8
47.5°	235.7	296.2	383.5	445.5	445.3	400.1	348.4	310.2	277.1	251.3	224.5
50°	210.8	263.5	337.3	407.7	413.6	375.7	326.6	288.7	257.8	230.8	209.2
52.5°	188.4	231.9	298.2	365.8	382.6	349.7	302.1	267.1	237.1	212.2	193.8
55°	159.2	192.9	243.3	306.4	331.9	308.7	266.4	233.7	209.4	188.5	172.6
57.5°	134.7	159.9	200.4	251.2	280.8	266.3	231.4	204.8	184.0	165.1	152.6
60°	119.3	139.9	174.2	216.7	249.4	239.2	209.4	184.7	167.0	150.6	138.8
62.5°	104.7	122.5	151.9	186.4	216.3	212.1	187.8	167.0	151.5	136.6	126.6
65°	84.3	97.2	120.2	147.2	171.3	173.3	155.8	141.7	127.9	116.1	107.2
67.5°	67.1	75.6	91.7	114.5	132.5	139.0	128.3	117.5	106.5	97.4	89.7
70°	56.6	63.4	75.2	93.6	110.2	117.0	110.8	102.4	92.9	85.4	78.8
72.5°	45.8	52.5	61.2	74.7	88.9	96.3	94.1	88.1	80.4	74.1	67.9
75°	34.5	36.6	42.5	51.6	62.7	69.1	70.6	67.5	61.3	56.6	52.9
77.5°	25.5	26.8	29.6	34.3	41.6	47.3	49.6	49.2	45.0	42.3	38.8
80°	20.4	21.1	22.5	24.5	30.0	35.7	37.3	37.3	34.3	33.2	29.8
82.5°	15.5	16.0	16.9	18.0	20.5	25.5	27.3	27.6	25.8	24.3	21.6
85°	8.9	8.6	9.1	9.8	10.2	11.6	14.3	14.8	14.3	12.5	11.8
87.5°	5.4	5.1	4.7	4.1	4.1	4.0	4.7	5.4	4.9	4.6	4.4
90°	11.4	9.2	7.0	5.3	4.1	2.9	1.7	0.5	1.7	2.9	4.1
92.5°	13.4	12.8	12.3	11.6	10.7	9.8	9.0	8.1	9.0	9.8	10.7
95°	28.6	28.4	28.2	27.6	26.6	25.6	24.6	23.6	24.6	25.6	26.6
97.5°	48.0	47.6	47.2	46.6	45.7	44.8	43.9	43.0	43.9	44.8	45.7
100°	61.9	61.6	61.3	60.8	60.0	59.1	58.3	57.5	58.3	59.1	60.0
102.5°	76.6	76.2	75.9	75.3	74.7	74.0	73.4	72.8	73.4	74.0	74.7
105°	99.3	99.1	98.9	98.6	98.3	98.0	97.7	97.4	97.7	98.0	98.3
107.5°	124.2	124.2	124.2	124.0	123.6	123.1	122.7	122.2	122.7	123.1	123.6
110°	140.9	140.9	140.9	140.6	140.0	139.4	138.8	138.2	138.8	139.4	140.0



TEST NUMBER: P331766

CATALOG NUMBER: S122RDIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	158.1	158.2	158.3	158.0	157.4	156.8	156.2	155.6	156.2	156.8	157.4
115°	183.4	183.6	183.8	183.6	183.0	182.4	181.8	181.2	181.8	182.4	183.0
117.5°	209.0	209.6	210.1	210.0	209.2	208.4	207.6	206.8	207.6	208.4	209.2
120°	225.4	226.2	227.0	227.0	226.2	225.4	224.6	223.8	224.6	225.4	226.2
122.5°	242.3	242.9	243.5	243.3	242.3	241.3	240.4	239.4	240.4	241.3	242.3
125°	267.0	267.3	267.6	267.3	266.4	265.5	264.6	263.7	264.6	265.5	266.4
127.5°	291.6	292.0	292.3	291.9	290.8	289.6	288.5	287.3	288.5	289.6	290.8
130°	307.6	307.8	308.0	307.4	306.1	304.8	303.5	302.2	303.5	304.8	306.1
132.5°	323.8	323.7	323.7	323.1	322.1	321.0	319.9	318.9	319.9	321.0	322.1
135°	346.6	346.4	346.2	345.6	344.5	343.4	342.3	341.2	342.3	343.4	344.5
137.5°	369.4	369.1	368.8	368.2	367.3	366.4	365.5	364.6	365.5	366.4	367.3
140°	384.1	383.6	383.1	382.4	381.5	380.6	379.7	378.8	379.7	380.6	381.5
142.5°	398.2	397.8	397.5	396.9	396.0	395.1	394.2	393.3	394.2	395.1	396.0
145°	418.8	418.2	417.6	416.9	416.2	415.5	414.8	414.1	414.8	415.5	416.2
147.5°	437.5	437.1	436.7	436.1	435.2	434.4	433.5	432.7	433.5	434.4	435.2
150°	449.1	448.7	448.3	447.8	447.2	446.6	446.0	445.4	446.0	446.6	447.2
152.5°	460.5	460.0	459.6	459.0	458.4	457.8	457.2	456.6	457.2	457.8	458.4
155°	475.6	475.3	475.0	474.7	474.4	474.0	473.7	473.4	473.7	474.0	474.4
157.5°	489.2	489.0	488.8	488.7	488.5	488.3	488.1	487.9	488.1	488.3	488.5
160°	497.7	497.6	497.5	497.4	497.2	497.0	496.8	496.6	496.8	497.0	497.2
162.5°	505.0	504.9	504.8	504.7	504.6	504.6	504.6	504.5	504.6	504.6	504.6
165°	514.7	514.7	514.7	514.7	514.8	514.9	515.0	515.1	515.0	514.9	514.8
167.5°	522.6	522.6	522.6	522.8	523.1	523.4	523.7	524.0	523.7	523.4	523.1
170°	527.1	527.2	527.3	527.5	527.8	528.1	528.4	528.7	528.4	528.1	527.8
172.5°	530.4	530.5	530.6	530.8	531.1	531.4	531.7	532.0	531.7	531.4	531.1
175°	534.1	534.3	534.5	534.8	535.1	535.4	535.7	536.0	535.7	535.4	535.1
177.5°	536.1	536.3	536.4	536.6	536.9	537.1	537.4	537.6	537.4	537.1	536.9
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



TEST NUMBER: P331766

CATALOG NUMBER: S122RDIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	644.5	643.2	640.8	637.2	635.0	631.2	628.7	630.1	630.5	630.1	629.8
5°	627.2	622.4	615.8	609.4	603.5	597.2	593.5	592.0	588.8	587.0	586.0
7.5°	606.2	598.0	588.7	577.6	568.2	558.3	553.3	550.8	544.3	540.8	537.7
10°	590.6	577.6	568.3	553.8	544.9	532.0	523.1	523.4	514.5	509.5	505.9
12.5°	573.3	559.1	543.6	530.5	518.2	507.8	497.1	492.8	483.4	478.6	468.8
15°	544.7	528.1	511.8	494.1	481.6	465.4	450.0	431.1	415.9	402.7	399.1
17.5°	513.5	492.9	476.5	455.7	434.3	407.2	389.3	378.3	369.2	362.2	357.0
20°	492.0	471.1	453.6	422.3	393.4	375.0	361.9	353.4	343.9	336.4	332.3
22.5°	469.5	447.7	423.8	388.8	366.3	351.6	339.9	330.2	323.7	317.9	314.1
25°	437.5	413.6	374.3	350.3	332.1	316.6	308.5	302.6	295.8	287.8	284.2
27.5°	403.7	365.8	337.5	319.6	302.3	292.3	284.9	276.1	270.0	266.4	262.6
30°	378.4	340.5	318.5	298.9	286.7	275.5	266.9	261.9	256.0	249.9	247.4
32.5°	350.3	320.0	298.8	282.6	270.1	260.6	253.8	245.7	241.5	237.7	232.5
35°	315.3	292.3	273.0	259.9	248.0	240.3	232.4	227.6	219.9	216.7	214.7
37.5°	285.7	265.8	251.4	237.5	228.1	219.6	214.7	207.1	203.8	199.3	195.0
40°	268.9	249.4	235.6	224.2	213.7	207.4	201.3	195.1	190.1	188.1	182.9
42.5°	251.9	236.0	222.1	209.7	202.7	195.9	188.2	183.7	178.5	175.2	172.0
45°	228.3	214.2	202.4	192.2	184.4	177.4	172.4	164.9	162.0	155.4	152.6
47.5°	207.6	194.5	183.2	173.5	166.0	161.4	154.1	148.2	143.5	139.4	135.9
50°	192.9	181.9	171.0	162.4	155.6	149.0	141.5	138.6	131.3	129.2	127.2
52.5°	179.4	169.0	159.1	150.6	143.8	137.4	130.8	126.9	122.0	120.0	118.5
55°	160.6	150.6	141.1	133.6	126.8	120.2	116.1	111.3	109.0	107.4	105.6
57.5°	141.7	132.7	125.4	117.8	110.9	105.7	101.0	98.1	95.8	93.7	91.5
60°	129.7	121.1	114.5	107.4	100.4	96.1	92.5	89.0	86.3	83.1	82.2
62.5°	117.0	109.4	103.4	96.5	90.4	86.5	83.0	79.8	76.5	71.9	70.6
65°	99.5	93.6	87.2	81.5	76.1	72.2	67.2	63.6	62.2	61.8	61.6
67.5°	83.7	78.1	72.6	66.8	61.9	58.3	55.7	55.2	54.2	54.0	53.3
70°	73.1	67.9	62.5	57.0	52.2	51.6	50.7	49.7	48.6	48.2	47.7
72.5°	63.7	58.3	52.8	48.5	46.4	45.6	44.7	43.7	43.0	42.5	42.3
75°	48.8	43.8	40.2	38.6	37.5	36.8	35.4	34.8	34.3	33.6	33.4
77.5°	35.2	32.3	30.7	29.7	28.5	27.8	27.0	26.3	25.8	25.7	25.3
80°	26.8	25.4	24.3	22.9	22.5	21.6	21.4	20.7	20.9	20.2	20.2
82.5°	20.8	19.1	18.1	17.5	17.0	16.3	16.1	15.8	15.8	15.3	15.3
85°	10.7	10.2	9.8	9.3	9.3	8.6	8.9	8.6	8.6	8.2	8.0
87.5°	4.5	4.7	4.7	5.2	5.6	5.9	5.9	5.6	5.6	5.6	5.4
90°	5.3	7.0	9.2	11.4	13.6	15.9	15.7	15.5	15.3	15.1	15.0
92.5°	11.6	12.3	12.8	13.4	13.9	14.4	14.4	14.5	14.5	14.6	14.6
95°	27.6	28.2	28.4	28.6	28.8	29.0	29.0	29.0	29.0	29.0	28.9
97.5°	46.6	47.2	47.6	48.0	48.4	48.7	48.7	48.7	48.7	48.7	48.7
100°	60.8	61.3	61.6	61.9	62.2	62.5	62.5	62.5	62.5	62.5	62.5
102.5°	75.3	75.9	76.2	76.6	77.0	77.4	77.5	77.5	77.6	77.7	77.7
105°	98.6	98.9	99.1	99.3	99.5	99.7	99.9	100.1	100.3	100.5	100.6
107.5°	124.0	124.2	124.2	124.2	124.2	124.2	124.3	124.4	124.5	124.6	124.4
110°	140.6	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.7



TEST NUMBER: P331766

CATALOG NUMBER: S122RDIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	158.0	158.3	158.2	158.1	158.0	157.9	157.7	157.5	157.2	157.0	156.7
115°	183.6	183.8	183.6	183.4	183.2	183.0	182.9	182.8	182.7	182.6	182.4
117.5°	210.0	210.1	209.6	209.0	208.4	207.9	207.6	207.4	207.1	206.9	206.6
120°	227.0	227.0	226.2	225.4	224.6	223.8	223.8	223.8	223.8	223.8	223.7
122.5°	243.3	243.5	242.9	242.3	241.8	241.2	241.0	240.7	240.5	240.2	240.0
125°	267.3	267.6	267.3	267.0	266.7	266.4	266.1	265.8	265.5	265.2	265.0
127.5°	291.9	292.3	292.0	291.6	291.2	290.9	290.5	290.1	289.8	289.4	289.1
130°	307.4	308.0	307.8	307.6	307.4	307.2	307.0	306.8	306.6	306.4	306.1
132.5°	323.1	323.7	323.7	323.8	323.8	323.8	323.4	323.0	322.5	322.1	321.7
135°	345.6	346.2	346.4	346.6	346.8	347.0	346.9	346.8	346.7	346.6	346.4
137.5°	368.2	368.8	369.1	369.4	369.6	369.9	369.8	369.7	369.6	369.6	369.3
140°	382.4	383.1	383.6	384.1	384.6	385.1	385.1	385.1	385.1	385.1	384.9
142.5°	396.9	397.5	397.8	398.2	398.5	398.9	399.0	399.0	399.1	399.2	399.0
145°	416.9	417.6	418.2	418.8	419.4	420.0	420.1	420.2	420.3	420.4	420.2
147.5°	436.1	436.7	437.1	437.5	437.9	438.3	438.5	438.7	439.0	439.2	439.1
150°	447.8	448.3	448.7	449.1	449.5	449.9	450.2	450.5	450.8	451.1	451.1
152.5°	459.0	459.6	460.0	460.5	461.0	461.5	461.9	462.2	462.6	463.0	463.0
155°	474.7	475.0	475.3	475.6	475.9	476.2	476.7	477.2	477.7	478.2	478.3
157.5°	488.7	488.8	489.0	489.2	489.4	489.6	490.3	490.9	491.6	492.3	492.4
160°	497.4	497.5	497.6	497.7	497.8	497.9	498.5	499.1	499.7	500.3	500.4
162.5°	504.7	504.8	504.9	505.0	505.1	505.2	505.8	506.5	507.2	507.9	508.0
165°	514.7	514.7	514.7	514.7	514.7	514.7	515.4	516.1	516.8	517.5	517.6
167.5°	522.8	522.6	522.6	522.6	522.6	522.6	523.3	524.0	524.7	525.4	525.5
170°	527.5	527.3	527.2	527.1	527.0	526.9	527.6	528.3	529.0	529.7	529.8
172.5°	530.8	530.6	530.5	530.4	530.3	530.2	530.9	531.6	532.3	533.0	533.0
175°	534.8	534.5	534.3	534.1	533.9	533.7	534.4	535.1	535.8	536.5	536.6
177.5°	536.6	536.4	536.3	536.1	535.9	535.8	536.3	536.8	537.2	537.7	537.7
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



TEST NUMBER: P331766

CATALOG NUMBER: S122RDIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	627.8	628.1	627.6	627.9	627.6	628.1	627.8	629.8	630.1	630.5	630.1
5°	584.9	582.2	581.7	581.1	581.7	582.2	584.9	586.0	587.0	588.8	592.0
7.5°	533.8	533.4	532.2	530.6	532.2	533.4	533.8	537.7	540.8	544.3	550.8
10°	500.9	499.7	499.5	497.9	499.5	499.7	500.9	505.9	509.5	514.5	523.4
12.5°	462.3	455.0	454.3	450.3	454.3	455.0	462.3	468.8	478.6	483.4	492.8
15°	393.7	392.3	387.7	384.8	387.7	392.3	393.7	399.1	402.7	415.9	431.1
17.5°	354.4	349.9	348.5	347.9	348.5	349.9	354.4	357.0	362.2	369.2	378.3
20°	329.1	325.1	324.4	323.9	324.4	325.1	329.1	332.3	336.4	343.9	353.4
22.5°	311.7	307.4	305.7	304.3	305.7	307.4	311.7	314.1	317.9	323.7	330.2
25°	281.9	280.3	279.4	278.9	279.4	280.3	281.9	284.2	287.8	295.8	302.6
27.5°	258.6	255.1	254.4	253.2	254.4	255.1	258.6	262.6	266.4	270.0	276.1
30°	245.3	244.2	242.6	241.2	242.6	244.2	245.3	247.4	249.9	256.0	261.9
32.5°	229.7	228.7	227.3	226.7	227.3	228.7	229.7	232.5	237.7	241.5	245.7
35°	212.4	209.2	207.8	205.8	207.8	209.2	212.4	214.7	216.7	219.9	227.6
37.5°	194.1	192.4	190.5	191.2	190.5	192.4	194.1	195.0	199.3	203.8	207.1
40°	179.9	178.8	178.3	178.1	178.3	178.8	179.9	182.9	188.1	190.1	195.1
42.5°	168.6	165.5	164.3	164.3	164.3	165.5	168.6	172.0	175.2	178.5	183.7
45°	151.5	148.6	146.5	146.7	146.5	148.6	151.5	152.6	155.4	162.0	164.9
47.5°	134.0	133.9	132.6	133.0	132.6	133.9	134.0	135.9	139.4	143.5	148.2
50°	125.6	124.3	123.3	123.6	123.3	124.3	125.6	127.2	129.2	131.3	138.6
52.5°	117.6	116.4	115.7	116.7	115.7	116.4	117.6	118.5	120.0	122.0	126.9
55°	104.5	103.1	102.9	102.7	102.9	103.1	104.5	105.6	107.4	109.0	111.3
57.5°	89.8	88.9	87.5	87.0	87.5	88.9	89.8	91.5	93.7	95.8	98.1
60°	79.3	77.5	75.2	75.0	75.2	77.5	79.3	82.2	83.1	86.3	89.0
62.5°	69.6	69.3	68.8	68.8	68.8	69.3	69.6	70.6	71.9	76.5	79.8
65°	61.1	60.9	61.1	61.3	61.1	60.9	61.1	61.6	61.8	62.2	63.6
67.5°	53.2	52.8	52.4	52.6	52.4	52.8	53.2	53.3	54.0	54.2	55.2
70°	47.2	47.0	46.8	46.8	46.8	47.0	47.2	47.7	48.2	48.6	49.7
72.5°	41.4	41.4	41.2	41.0	41.2	41.4	41.4	42.3	42.5	43.0	43.7
75°	33.2	32.7	32.7	32.7	32.7	32.7	33.2	33.4	33.6	34.3	34.8
77.5°	25.3	25.0	24.8	24.6	24.8	25.0	25.3	25.3	25.7	25.8	26.3
80°	20.0	19.8	19.5	19.5	19.5	19.8	20.0	20.2	20.2	20.9	20.7
82.5°	15.3	15.0	15.0	14.8	15.0	15.0	15.3	15.3	15.3	15.8	15.8
85°	8.2	8.4	8.2	8.6	8.2	8.4	8.2	8.0	8.2	8.6	8.6
87.5°	5.4	5.2	5.4	5.3	5.4	5.2	5.4	5.4	5.6	5.6	5.6
90°	15.1	15.2	15.3	15.4	15.3	15.2	15.1	15.0	15.1	15.3	15.5
92.5°	14.6	14.6	14.7	14.7	14.7	14.6	14.6	14.6	14.6	14.5	14.5
95°	28.7	28.5	28.3	28.1	28.3	28.5	28.7	28.9	29.0	29.0	29.0
97.5°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
100°	62.4	62.3	62.2	62.1	62.2	62.3	62.4	62.5	62.5	62.5	62.5
102.5°	77.6	77.5	77.4	77.3	77.4	77.5	77.6	77.7	77.7	77.6	77.5
105°	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.5	100.3	100.1
107.5°	123.9	123.4	123.0	122.5	123.0	123.4	123.9	124.4	124.6	124.5	124.4
110°	140.4	140.1	139.8	139.5	139.8	140.1	140.4	140.7	140.9	140.9	140.9



TEST NUMBER: P331766

CATALOG NUMBER: S122RDIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	156.5	156.3	156.1	155.9	156.1	156.3	156.5	156.7	157.0	157.2	157.5
115°	182.1	181.8	181.5	181.2	181.5	181.8	182.1	182.4	182.6	182.7	182.8
117.5°	206.3	206.0	205.7	205.4	205.7	206.0	206.3	206.6	206.9	207.1	207.4
120°	223.4	223.1	222.8	222.5	222.8	223.1	223.4	223.7	223.8	223.8	223.8
122.5°	239.8	239.6	239.3	239.1	239.3	239.6	239.8	240.0	240.2	240.5	240.7
125°	264.9	264.8	264.7	264.6	264.7	264.8	264.9	265.0	265.2	265.5	265.8
127.5°	288.7	288.4	288.1	287.8	288.1	288.4	288.7	289.1	289.4	289.8	290.1
130°	305.7	305.3	304.9	304.5	304.9	305.3	305.7	306.1	306.4	306.6	306.8
132.5°	321.4	321.0	320.7	320.4	320.7	321.0	321.4	321.7	322.1	322.5	323.0
135°	346.1	345.8	345.5	345.2	345.5	345.8	346.1	346.4	346.6	346.7	346.8
137.5°	368.9	368.5	368.1	367.7	368.1	368.5	368.9	369.3	369.6	369.6	369.7
140°	384.5	384.1	383.7	383.3	383.7	384.1	384.5	384.9	385.1	385.1	385.1
142.5°	398.6	398.2	397.8	397.4	397.8	398.2	398.6	399.0	399.2	399.1	399.0
145°	419.8	419.4	419.0	418.6	419.0	419.4	419.8	420.2	420.4	420.3	420.2
147.5°	438.7	438.3	437.9	437.6	437.9	438.3	438.7	439.1	439.2	439.0	438.7
150°	450.8	450.5	450.2	449.9	450.2	450.5	450.8	451.1	451.1	450.8	450.5
152.5°	462.6	462.2	461.9	461.5	461.9	462.2	462.6	463.0	463.0	462.6	462.2
155°	478.0	477.7	477.4	477.1	477.4	477.7	478.0	478.3	478.2	477.7	477.2
157.5°	491.9	491.4	491.0	490.5	491.0	491.4	491.9	492.4	492.3	491.6	490.9
160°	500.0	499.6	499.2	498.8	499.2	499.6	500.0	500.4	500.3	499.7	499.1
162.5°	507.5	507.0	506.5	506.1	506.5	507.0	507.5	508.0	507.9	507.2	506.5
165°	517.1	516.6	516.1	515.6	516.1	516.6	517.1	517.6	517.5	516.8	516.1
167.5°	524.9	524.4	523.9	523.4	523.9	524.4	524.9	525.5	525.4	524.7	524.0
170°	529.2	528.6	528.0	527.4	528.0	528.6	529.2	529.8	529.7	529.0	528.3
172.5°	532.4	531.8	531.2	530.6	531.2	531.8	532.4	533.0	533.0	532.3	531.6
175°	536.0	535.4	534.8	534.2	534.8	535.4	536.0	536.6	536.5	535.8	535.1
177.5°	537.2	536.8	536.3	535.8	536.3	536.8	537.2	537.7	537.7	537.2	536.8
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



TEST NUMBER: P331766

CATALOG NUMBER: S122RDIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	628.7	631.2	635.0	637.2	640.8	643.2	644.5	646.8	648.1	652.7	657.4
5°	593.5	597.2	603.5	609.4	615.8	622.4	627.2	632.6	637.6	646.2	655.3
7.5°	553.3	558.3	568.2	577.6	588.7	598.0	606.2	615.5	623.8	636.2	649.1
10°	523.1	532.0	544.9	553.8	568.3	577.6	590.6	600.8	612.4	628.8	643.3
12.5°	497.1	507.8	518.2	530.5	543.6	559.1	573.3	586.5	600.2	617.1	634.2
15°	450.0	465.4	481.6	494.1	511.8	528.1	544.7	562.4	579.2	599.5	621.7
17.5°	389.3	407.2	434.3	455.7	476.5	492.9	513.5	534.9	554.7	579.1	603.9
20°	361.9	375.0	393.4	422.3	453.6	471.1	492.0	515.6	538.3	564.9	591.5
22.5°	339.9	351.6	366.3	388.8	423.8	447.7	469.5	493.5	519.8	546.9	576.4
25°	308.5	316.6	332.1	350.3	374.3	413.6	437.5	461.6	490.2	519.3	552.9
27.5°	284.9	292.3	302.3	319.6	337.5	365.8	403.7	430.0	458.5	491.2	526.1
30°	266.9	275.5	286.7	298.9	318.5	340.5	378.4	408.9	437.0	470.7	507.9
32.5°	253.8	260.6	270.1	282.6	298.8	320.0	350.3	387.2	414.7	450.1	489.0
35°	232.4	240.3	248.0	259.9	273.0	292.3	315.3	354.8	382.1	417.0	456.1
37.5°	214.7	219.6	228.1	237.5	251.4	265.8	285.7	321.1	350.6	384.9	424.9
40°	201.3	207.4	213.7	224.2	235.6	249.4	268.9	295.3	329.1	362.8	401.8
42.5°	188.2	195.9	202.7	209.7	222.1	236.0	251.9	274.2	308.8	340.6	378.6
45°	172.4	177.4	184.4	192.2	202.4	214.2	228.3	247.8	281.0	308.5	344.1
47.5°	154.1	161.4	166.0	173.5	183.2	194.5	207.6	224.5	251.3	277.1	310.2
50°	141.5	149.0	155.6	162.4	171.0	181.9	192.9	209.2	230.8	257.8	288.7
52.5°	130.8	137.4	143.8	150.6	159.1	169.0	179.4	193.8	212.2	237.1	267.1
55°	116.1	120.2	126.8	133.6	141.1	150.6	160.6	172.6	188.5	209.4	233.7
57.5°	101.0	105.7	110.9	117.8	125.4	132.7	141.7	152.6	165.1	184.0	204.8
60°	92.5	96.1	100.4	107.4	114.5	121.1	129.7	138.8	150.6	167.0	184.7
62.5°	83.0	86.5	90.4	96.5	103.4	109.4	117.0	126.6	136.6	151.5	167.0
65°	67.2	72.2	76.1	81.5	87.2	93.6	99.5	107.2	116.1	127.9	141.7
67.5°	55.7	58.3	61.9	66.8	72.6	78.1	83.7	89.7	97.4	106.5	117.5
70°	50.7	51.6	52.2	57.0	62.5	67.9	73.1	78.8	85.4	92.9	102.4
72.5°	44.7	45.6	46.4	48.5	52.8	58.3	63.7	67.9	74.1	80.4	88.1
75°	35.4	36.8	37.5	38.6	40.2	43.8	48.8	52.9	56.6	61.3	67.5
77.5°	27.0	27.8	28.5	29.7	30.7	32.3	35.2	38.8	42.3	45.0	49.2
80°	21.4	21.6	22.5	22.9	24.3	25.4	26.8	29.8	33.2	34.3	37.3
82.5°	16.1	16.3	17.0	17.5	18.1	19.1	20.8	21.6	24.3	25.8	27.6
85°	8.9	8.6	9.3	9.3	9.8	10.2	10.7	11.8	12.5	14.3	14.8
87.5°	5.9	5.9	5.6	5.2	4.7	4.7	4.5	4.4	4.6	4.9	5.4
90°	15.7	15.9	13.6	11.4	9.2	7.0	5.3	4.1	2.9	1.7	0.5
92.5°	14.4	14.4	13.9	13.4	12.8	12.3	11.6	10.7	9.8	9.0	8.1
95°	29.0	29.0	28.8	28.6	28.4	28.2	27.6	26.6	25.6	24.6	23.6
97.5°	48.7	48.7	48.4	48.0	47.6	47.2	46.6	45.7	44.8	43.9	43.0
100°	62.5	62.5	62.2	61.9	61.6	61.3	60.8	60.0	59.1	58.3	57.5
102.5°	77.5	77.4	77.0	76.6	76.2	75.9	75.3	74.7	74.0	73.4	72.8
105°	99.9	99.7	99.5	99.3	99.1	98.9	98.6	98.3	98.0	97.7	97.4
107.5°	124.3	124.2	124.2	124.2	124.2	124.2	124.0	123.6	123.1	122.7	122.2
110°	140.9	140.9	140.9	140.9	140.9	140.9	140.6	140.0	139.4	138.8	138.2



TEST NUMBER: P331766

CATALOG NUMBER: S122RDIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	157.7	157.9	158.0	158.1	158.2	158.3	158.0	157.4	156.8	156.2	155.6
115°	182.9	183.0	183.2	183.4	183.6	183.8	183.6	183.0	182.4	181.8	181.2
117.5°	207.6	207.9	208.4	209.0	209.6	210.1	210.0	209.2	208.4	207.6	206.8
120°	223.8	223.8	224.6	225.4	226.2	227.0	227.0	226.2	225.4	224.6	223.8
122.5°	241.0	241.2	241.8	242.3	242.9	243.5	243.3	242.3	241.3	240.4	239.4
125°	266.1	266.4	266.7	267.0	267.3	267.6	267.3	266.4	265.5	264.6	263.7
127.5°	290.5	290.9	291.2	291.6	292.0	292.3	291.9	290.8	289.6	288.5	287.3
130°	307.0	307.2	307.4	307.6	307.8	308.0	307.4	306.1	304.8	303.5	302.2
132.5°	323.4	323.8	323.8	323.8	323.7	323.7	323.1	322.1	321.0	319.9	318.9
135°	346.9	347.0	346.8	346.6	346.4	346.2	345.6	344.5	343.4	342.3	341.2
137.5°	369.8	369.9	369.6	369.4	369.1	368.8	368.2	367.3	366.4	365.5	364.6
140°	385.1	385.1	384.6	384.1	383.6	383.1	382.4	381.5	380.6	379.7	378.8
142.5°	399.0	398.9	398.5	398.2	397.8	397.5	396.9	396.0	395.1	394.2	393.3
145°	420.1	420.0	419.4	418.8	418.2	417.6	416.9	416.2	415.5	414.8	414.1
147.5°	438.5	438.3	437.9	437.5	437.1	436.7	436.1	435.2	434.4	433.5	432.7
150°	450.2	449.9	449.5	449.1	448.7	448.3	447.8	447.2	446.6	446.0	445.4
152.5°	461.9	461.5	461.0	460.5	460.0	459.6	459.0	458.4	457.8	457.2	456.6
155°	476.7	476.2	475.9	475.6	475.3	475.0	474.7	474.4	474.0	473.7	473.4
157.5°	490.3	489.6	489.4	489.2	489.0	488.8	488.7	488.5	488.3	488.1	487.9
160°	498.5	497.9	497.8	497.7	497.6	497.5	497.4	497.2	497.0	496.8	496.6
162.5°	505.8	505.2	505.1	505.0	504.9	504.8	504.7	504.6	504.6	504.6	504.5
165°	515.4	514.7	514.7	514.7	514.7	514.7	514.7	514.8	514.9	515.0	515.1
167.5°	523.3	522.6	522.6	522.6	522.6	522.6	522.8	523.1	523.4	523.7	524.0
170°	527.6	526.9	527.0	527.1	527.2	527.3	527.5	527.8	528.1	528.4	528.7
172.5°	530.9	530.2	530.3	530.4	530.5	530.6	530.8	531.1	531.4	531.7	532.0
175°	534.4	533.7	533.9	534.1	534.3	534.5	534.8	535.1	535.4	535.7	536.0
177.5°	536.3	535.8	535.9	536.1	536.3	536.4	536.6	536.9	537.1	537.4	537.6
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



TEST NUMBER: P331766

CATALOG NUMBER: S122RDIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	657.6	658.1	661.7	663.4	666.6	667.9	669.4	669.0	669.0	669.7	674.8
5°	659.0	663.5	670.3	676.9	683.3	688.7	692.4	696.0	697.4	703.9	709.8
7.5°	656.6	665.0	676.2	686.3	698.3	707.7	715.5	722.6	727.4	737.0	746.8
10°	653.5	665.3	678.0	691.0	707.6	720.1	732.8	742.6	745.7	760.0	768.2
12.5°	647.3	663.1	679.3	696.1	712.3	729.5	743.5	753.3	764.5	777.3	792.4
15°	638.1	656.2	677.4	698.9	722.1	743.0	758.0	775.0	787.3	801.4	814.6
17.5°	624.8	648.2	675.0	700.0	726.8	749.2	769.9	786.2	794.8	802.9	804.8
20°	614.2	639.4	671.0	700.5	727.3	753.2	773.7	787.3	789.6	789.8	777.8
22.5°	602.8	631.3	664.3	694.5	726.6	755.4	771.3	777.1	768.1	752.7	729.4
25°	581.7	614.7	653.1	687.6	722.6	749.8	755.3	745.1	713.5	680.3	638.3
27.5°	558.9	596.0	637.1	675.5	712.8	729.7	717.9	681.0	624.2	574.7	514.8
30°	542.2	583.8	624.2	667.1	701.7	708.9	681.9	627.6	561.3	486.8	427.0
32.5°	523.1	566.7	611.1	655.5	684.4	677.3	632.7	565.8	488.1	414.8	358.4
35°	495.9	540.8	588.8	633.3	651.7	621.0	554.2	467.2	387.7	319.4	280.5
37.5°	464.4	513.4	563.2	604.1	602.8	551.7	460.7	370.9	304.1	263.6	236.0
40°	442.0	491.6	545.4	579.9	565.2	498.6	400.0	315.3	266.4	234.2	214.0
42.5°	420.6	470.3	523.8	551.2	525.5	443.7	345.5	279.1	238.8	213.7	197.3
45°	384.1	436.6	486.1	501.3	455.4	365.3	279.4	231.2	204.4	185.8	174.5
47.5°	348.4	400.1	445.3	445.5	383.5	296.2	235.7	200.1	177.2	162.8	154.6
50°	326.6	375.7	413.6	407.7	337.3	263.5	210.8	180.1	161.1	149.9	141.3
52.5°	302.1	349.7	382.6	365.8	298.2	231.9	188.4	162.7	146.9	137.2	129.5
55°	266.4	308.7	331.9	306.4	243.3	192.9	159.2	139.0	127.2	119.0	112.4
57.5°	231.4	266.3	280.8	251.2	200.4	159.9	134.7	119.5	107.8	101.9	98.5
60°	209.4	239.2	249.4	216.7	174.2	139.9	119.3	105.2	96.5	92.7	89.3
62.5°	187.8	212.1	216.3	186.4	151.9	122.5	104.7	92.8	87.1	83.4	80.2
65°	155.8	173.3	171.3	147.2	120.2	97.2	84.3	77.0	72.7	67.5	61.8
67.5°	128.3	139.0	132.5	114.5	91.7	75.6	67.1	61.6	56.2	51.3	50.0
70°	110.8	117.0	110.2	93.6	75.2	63.4	56.6	50.0	46.8	45.7	43.6
72.5°	94.1	96.3	88.9	74.7	61.2	52.5	45.8	42.2	40.4	39.5	38.2
75°	70.6	69.1	62.7	51.6	42.5	36.6	34.5	33.2	32.0	31.1	30.4
77.5°	49.6	47.3	41.6	34.3	29.6	26.8	25.5	24.8	24.3	23.8	23.1
80°	37.3	35.7	30.0	24.5	22.5	21.1	20.4	19.5	19.5	19.1	18.4
82.5°	27.3	25.5	20.5	18.0	16.9	16.0	15.5	15.0	14.8	14.9	14.4
85°	14.3	11.6	10.2	9.8	9.1	8.6	8.9	8.4	8.4	8.4	8.2
87.5°	4.7	4.0	4.1	4.1	4.7	5.1	5.4	5.8	6.4	6.2	6.4
90°	1.7	2.9	4.1	5.3	7.0	9.2	11.4	13.6	15.9	15.7	15.5
92.5°	9.0	9.8	10.7	11.6	12.3	12.8	13.4	13.9	14.4	14.4	14.5
95°	24.6	25.6	26.6	27.6	28.2	28.4	28.6	28.8	29.0	29.0	29.0
97.5°	43.9	44.8	45.7	46.6	47.2	47.6	48.0	48.4	48.7	48.7	48.7
100°	58.3	59.1	60.0	60.8	61.3	61.6	61.9	62.2	62.5	62.5	62.5
102.5°	73.4	74.0	74.7	75.3	75.9	76.2	76.6	77.0	77.4	77.5	77.5
105°	97.7	98.0	98.3	98.6	98.9	99.1	99.3	99.5	99.7	99.9	100.1
107.5°	122.7	123.1	123.6	124.0	124.2	124.2	124.2	124.2	124.2	124.3	124.4
110°	138.8	139.4	140.0	140.6	140.9	140.9	140.9	140.9	140.9	140.9	140.9



TEST NUMBER: P331766

CATALOG NUMBER: S122RDIW-S290D435U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	156.2	156.8	157.4	158.0	158.3	158.2	158.1	158.0	157.9	157.7	157.5
115°	181.8	182.4	183.0	183.6	183.8	183.6	183.4	183.2	183.0	182.9	182.8
117.5°	207.6	208.4	209.2	210.0	210.1	209.6	209.0	208.4	207.9	207.6	207.4
120°	224.6	225.4	226.2	227.0	227.0	226.2	225.4	224.6	223.8	223.8	223.8
122.5°	240.4	241.3	242.3	243.3	243.5	242.9	242.3	241.8	241.2	241.0	240.7
125°	264.6	265.5	266.4	267.3	267.6	267.3	267.0	266.7	266.4	266.1	265.8
127.5°	288.5	289.6	290.8	291.9	292.3	292.0	291.6	291.2	290.9	290.5	290.1
130°	303.5	304.8	306.1	307.4	308.0	307.8	307.6	307.4	307.2	307.0	306.8
132.5°	319.9	321.0	322.1	323.1	323.7	323.7	323.8	323.8	323.8	323.4	323.0
135°	342.3	343.4	344.5	345.6	346.2	346.4	346.6	346.8	347.0	346.9	346.8
137.5°	365.5	366.4	367.3	368.2	368.8	369.1	369.4	369.6	369.9	369.8	369.7
140°	379.7	380.6	381.5	382.4	383.1	383.6	384.1	384.6	385.1	385.1	385.1
142.5°	394.2	395.1	396.0	396.9	397.5	397.8	398.2	398.5	398.9	399.0	399.0
145°	414.8	415.5	416.2	416.9	417.6	418.2	418.8	419.4	420.0	420.1	420.2
147.5°	433.5	434.4	435.2	436.1	436.7	437.1	437.5	437.9	438.3	438.5	438.7
150°	446.0	446.6	447.2	447.8	448.3	448.7	449.1	449.5	449.9	450.2	450.5
152.5°	457.2	457.8	458.4	459.0	459.6	460.0	460.5	461.0	461.5	461.9	462.2
155°	473.7	474.0	474.4	474.7	475.0	475.3	475.6	475.9	476.2	476.7	477.2
157.5°	488.1	488.3	488.5	488.7	488.8	489.0	489.2	489.4	489.6	490.3	490.9
160°	496.8	497.0	497.2	497.4	497.5	497.6	497.7	497.8	497.9	498.5	499.1
162.5°	504.6	504.6	504.6	504.7	504.8	504.9	505.0	505.1	505.2	505.8	506.5
165°	515.0	514.9	514.8	514.7	514.7	514.7	514.7	514.7	514.7	515.4	516.1
167.5°	523.7	523.4	523.1	522.8	522.6	522.6	522.6	522.6	522.6	523.3	524.0
170°	528.4	528.1	527.8	527.5	527.3	527.2	527.1	527.0	526.9	527.6	528.3
172.5°	531.7	531.4	531.1	530.8	530.6	530.5	530.4	530.3	530.2	530.9	531.6
175°	535.7	535.4	535.1	534.8	534.5	534.3	534.1	533.9	533.7	534.4	535.1
177.5°	537.4	537.1	536.9	536.6	536.4	536.3	536.1	535.9	535.8	536.3	536.8
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	676.6	679.0	680.1	680.1	681.4	680.8	680.3
5°	715.5	719.8	720.8	724.8	727.8	726.9	727.3
7.5°	754.2	761.1	768.0	771.1	771.6	773.4	774.1
10°	778.0	783.7	794.3	792.8	800.7	805.3	797.8
12.5°	800.9	808.6	816.0	818.0	822.5	824.0	821.0
15°	821.6	825.7	826.1	825.0	826.4	825.2	820.9
17.5°	802.3	795.6	782.2	775.8	770.8	763.3	760.3
20°	770.3	750.7	728.0	718.9	708.3	687.4	692.4
22.5°	701.2	679.0	656.2	629.7	617.0	597.2	596.0
25°	593.8	555.4	513.1	483.6	466.3	446.6	437.9
27.5°	461.7	413.3	378.7	361.2	345.2	329.6	328.9
30°	374.8	338.5	311.7	296.7	286.9	280.3	281.7
32.5°	315.9	291.0	272.9	260.5	253.3	248.3	248.2
35°	258.3	241.2	229.6	224.4	219.2	215.6	215.8
37.5°	221.0	210.8	204.3	198.6	195.3	193.5	192.5
40°	201.9	193.5	188.5	185.1	182.4	179.9	179.4
42.5°	186.9	179.9	174.9	172.2	169.7	167.9	167.5
45°	165.8	160.1	155.6	152.6	151.5	149.9	149.9
47.5°	147.5	141.9	138.4	136.5	134.6	133.5	133.5
50°	135.2	130.8	127.7	126.5	124.9	124.3	124.0
52.5°	124.1	120.8	118.6	117.8	117.1	116.3	116.4
55°	109.0	107.2	106.3	105.6	104.5	103.1	104.0
57.5°	96.4	94.8	92.4	90.2	89.2	88.2	88.6
60°	87.5	84.3	81.1	78.6	77.9	75.9	75.9
62.5°	76.2	71.7	67.8	66.4	65.7	64.8	64.6
65°	58.6	56.8	55.9	55.0	54.5	54.5	54.1
67.5°	48.6	47.8	46.8	46.6	46.2	46.0	45.9
70°	42.9	42.0	41.6	41.3	40.9	41.1	40.4
72.5°	37.5	36.8	36.7	36.1	35.8	35.8	35.3
75°	29.5	29.5	29.3	29.1	28.6	28.4	28.6
77.5°	22.7	22.8	22.4	22.3	22.3	22.3	22.1
80°	18.2	18.4	18.2	17.9	17.7	17.9	17.7
82.5°	14.4	14.0	14.0	13.9	13.9	13.8	13.7
85°	8.2	8.4	8.2	8.0	8.0	8.0	8.2
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.0
90°	15.3	15.1	15.0	15.1	15.2	15.3	15.4
92.5°	14.5	14.6	14.6	14.6	14.6	14.7	14.7
95°	29.0	29.0	28.9	28.7	28.5	28.3	28.1
97.5°	48.7	48.7	48.7	48.7	48.7	48.7	48.7
100°	62.5	62.5	62.5	62.4	62.3	62.2	62.1
102.5°	77.6	77.7	77.7	77.6	77.5	77.4	77.3
105°	100.3	100.5	100.6	100.6	100.6	100.6	100.6
107.5°	124.5	124.6	124.4	123.9	123.4	123.0	122.5
110°	140.9	140.9	140.7	140.4	140.1	139.8	139.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	157.2	157.0	156.7	156.5	156.3	156.1	155.9
115°	182.7	182.6	182.4	182.1	181.8	181.5	181.2
117.5°	207.1	206.9	206.6	206.3	206.0	205.7	205.4
120°	223.8	223.8	223.7	223.4	223.1	222.8	222.5
122.5°	240.5	240.2	240.0	239.8	239.6	239.3	239.1
125°	265.5	265.2	265.0	264.9	264.8	264.7	264.6
127.5°	289.8	289.4	289.1	288.7	288.4	288.1	287.8
130°	306.6	306.4	306.1	305.7	305.3	304.9	304.5
132.5°	322.5	322.1	321.7	321.4	321.0	320.7	320.4
135°	346.7	346.6	346.4	346.1	345.8	345.5	345.2
137.5°	369.6	369.6	369.3	368.9	368.5	368.1	367.7
140°	385.1	385.1	384.9	384.5	384.1	383.7	383.3
142.5°	399.1	399.2	399.0	398.6	398.2	397.8	397.4
145°	420.3	420.4	420.2	419.8	419.4	419.0	418.6
147.5°	439.0	439.2	439.1	438.7	438.3	437.9	437.6
150°	450.8	451.1	451.1	450.8	450.5	450.2	449.9
152.5°	462.6	463.0	463.0	462.6	462.2	461.9	461.5
155°	477.7	478.2	478.3	478.0	477.7	477.4	477.1
157.5°	491.6	492.3	492.4	491.9	491.4	491.0	490.5
160°	499.7	500.3	500.4	500.0	499.6	499.2	498.8
162.5°	507.2	507.9	508.0	507.5	507.0	506.5	506.1
165°	516.8	517.5	517.6	517.1	516.6	516.1	515.6
167.5°	524.7	525.4	525.5	524.9	524.4	523.9	523.4
170°	529.0	529.7	529.8	529.2	528.6	528.0	527.4
172.5°	532.3	533.0	533.0	532.4	531.8	531.2	530.6
175°	535.8	536.5	536.6	536.0	535.4	534.8	534.2
177.5°	537.2	537.7	537.7	537.2	536.8	536.3	535.8
180°	536.9	536.9	536.9	536.9	536.9	536.9	536.9

(END OF REPORT)