

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: P331622

Luminaire Tested: **SA2XXRDIP-C290D530U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331622
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C290D530U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

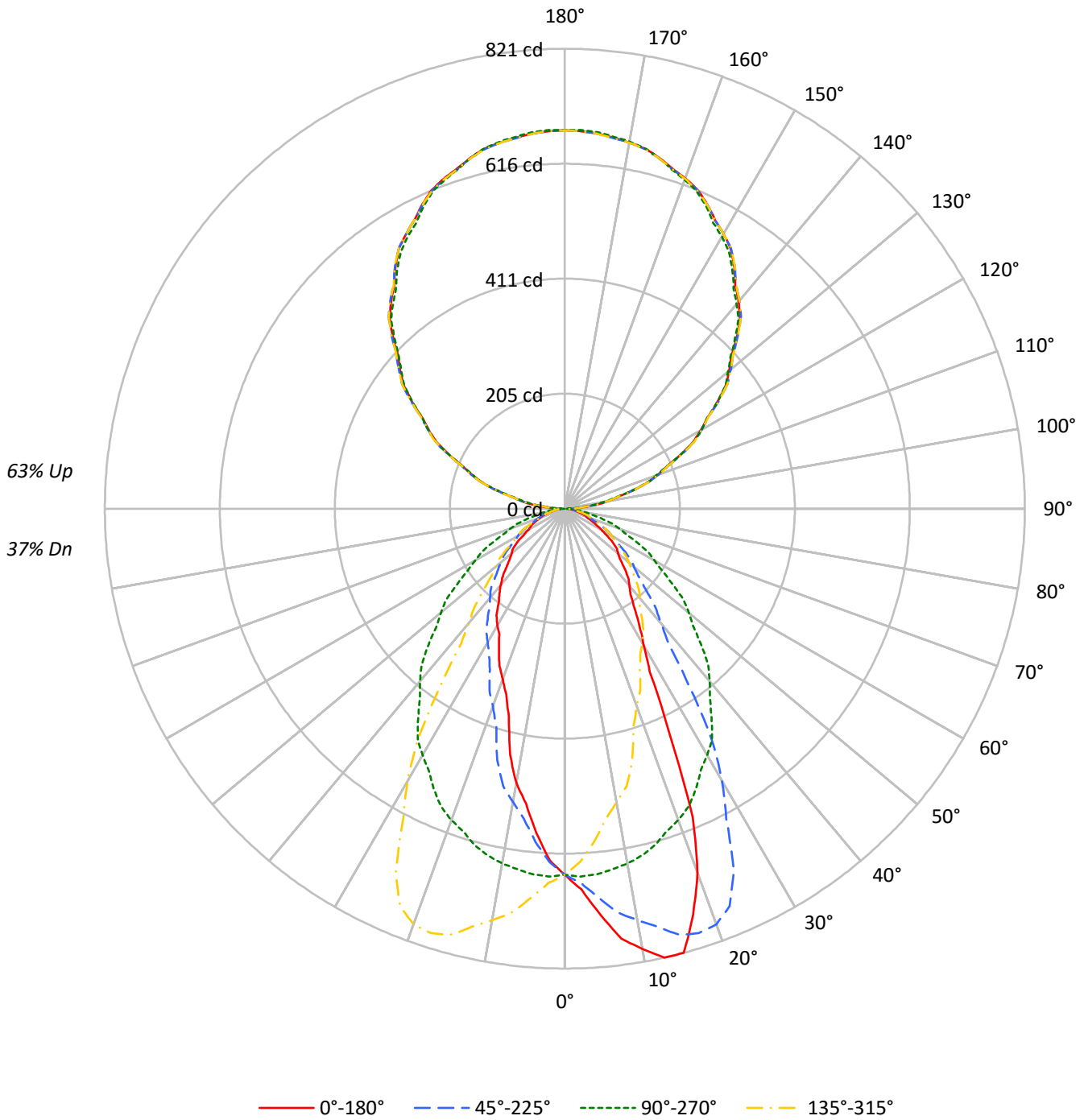
Lumens per Lamp: N/A
Luminaire Lumens: 3022.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 25.6
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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	37				
1	96	91	88	85	87	83	80	77	68	66	64	53	52	51	40	39	39	33				
2	87	81	75	70	79	73	69	64	60	57	54	48	45	43	36	35	34	28				
3	80	71	65	59	73	65	59	55	53	49	46	43	40	37	33	31	29	25				
4	74	64	56	51	67	58	52	47	48	43	40	38	35	33	30	28	26	22				
5	68	57	49	44	61	52	46	41	43	38	35	35	31	29	27	25	23	19				
6	63	51	44	38	57	47	40	36	39	34	30	32	28	25	25	22	21	17				
7	58	46	39	34	53	43	36	31	36	31	27	29	25	23	23	20	19	16				
8	54	42	35	30	49	39	33	28	33	28	24	27	23	21	21	19	17	14				
9	50	39	32	27	46	36	29	25	30	25	22	25	21	19	20	17	15	13				
10	47	36	29	24	43	33	27	23	28	23	20	23	19	17	18	16	14	12				

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	2.1
10°-20°	172.7	5.7
20°-30°	222.5	7.4
30°-40°	211.5	7.0
40°-50°	181.1	6.0
50°-60°	137.9	4.6
60°-70°	87.2	2.9
70°-80°	43.5	1.4
80°-90°	14.0	0.5
90°-100°	42.8	1.4
100°-110°	133.0	4.4
110°-120°	227.3	7.5
120°-130°	298.9	9.9
130°-140°	335.5	11.1
140°-150°	329.0	10.9
150°-160°	275.9	9.1
160°-170°	183.0	6.1
170°-180°	64.0	2.1
0°-30°	457.2	15.1
0°-40°	668.6	22.1
0°-60°	987.7	32.7
0°-90°	1132.5	37.5
90°-120°	403.1	13.3
90°-150°	1366.6	45.2
90°-180°	1889.0	62.5
0°-180°	3022.0	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°	19	1	19	1	19	9
95°	35	30	35	30	35	39
105°	127	123	127	123	127	133
115°	228	228	228	228	228	225
125°	333	332	333	332	333	297
135°	434	429	434	429	434	334
145°	527	521	527	521	527	329
155°	600	596	600	596	600	276
165°	649	648	649	648	649	183
175°	672	675	672	675	672	64
180°	676	676	676	676	676	



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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°	6.8	6.9	6.9	6.9	6.9	6.9	6.9	7.2	7.0	7.3	6.5
90°	19.4	19.3	19.1	19.0	18.9	18.9	19.2	19.5	19.7	20.0	17.2
92.5°	18.5	18.5	18.4	18.4	18.4	18.3	18.3	18.2	18.2	18.1	17.5
95°	35.4	35.6	35.9	36.1	36.4	36.5	36.5	36.5	36.5	36.5	36.2
97.5°	61.2	61.3	61.3	61.3	61.3	61.4	61.4	61.4	61.4	61.4	60.9
100°	78.1	78.3	78.4	78.5	78.6	78.7	78.7	78.7	78.7	78.7	78.3
102.5°	97.3	97.4	97.5	97.7	97.8	97.8	97.7	97.6	97.5	97.4	96.9
105°	126.6	126.6	126.6	126.6	126.6	126.5	126.2	126.0	125.7	125.5	125.2
107.5°	154.2	154.8	155.4	155.9	156.5	156.8	156.7	156.6	156.5	156.4	156.4
110°	175.6	176.0	176.4	176.8	177.2	177.3	177.3	177.3	177.3	177.3	177.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	196.2	196.4	196.7	197.0	197.3	197.6	197.9	198.2	198.5	198.8	198.9
115°	228.1	228.5	228.9	229.2	229.6	229.9	230.0	230.1	230.3	230.4	230.6
117.5°	258.5	258.9	259.3	259.7	260.1	260.4	260.7	261.0	261.3	261.6	262.3
120°	280.0	280.4	280.8	281.1	281.5	281.7	281.7	281.7	281.7	281.7	282.7
122.5°	301.0	301.3	301.5	301.8	302.1	302.4	302.7	303.0	303.3	303.6	304.3
125°	333.0	333.1	333.3	333.4	333.5	333.8	334.2	334.5	334.9	335.3	335.7
127.5°	362.2	362.6	363.0	363.4	363.8	364.3	364.7	365.2	365.6	366.1	366.6
130°	383.2	383.7	384.2	384.7	385.2	385.6	385.9	386.1	386.4	386.6	386.9
132.5°	403.3	403.7	404.1	404.5	404.9	405.4	405.9	406.5	407.1	407.6	407.6
135°	434.5	434.9	435.3	435.7	436.0	436.3	436.4	436.6	436.7	436.8	436.6
137.5°	462.8	463.3	463.8	464.3	464.8	465.1	465.2	465.3	465.4	465.5	465.2
140°	482.4	482.9	483.4	483.9	484.5	484.7	484.7	484.7	484.7	484.7	484.1
142.5°	500.2	500.7	501.2	501.7	502.2	502.4	502.3	502.2	502.1	502.0	501.6
145°	526.9	527.4	527.9	528.4	528.9	529.1	529.0	528.9	528.7	528.6	527.9
147.5°	550.7	551.2	551.7	552.2	552.7	552.8	552.5	552.2	551.9	551.7	551.1
150°	566.3	566.6	567.0	567.4	567.8	567.8	567.4	567.0	566.6	566.3	565.7
152.5°	580.9	581.3	581.8	582.3	582.8	582.8	582.3	581.8	581.3	580.9	580.2
155°	600.5	600.8	601.2	601.6	602.0	601.9	601.2	600.6	600.0	599.3	598.9
157.5°	617.3	618.0	618.6	619.2	619.8	619.7	618.8	617.9	617.1	616.2	616.0
160°	627.8	628.3	628.9	629.4	629.9	629.7	629.0	628.2	627.5	626.7	626.6
162.5°	637.0	637.6	638.2	638.8	639.4	639.3	638.4	637.5	636.7	635.8	635.7
165°	648.9	649.6	650.2	650.8	651.5	651.3	650.5	649.6	648.7	647.8	647.8
167.5°	658.7	659.4	660.1	660.7	661.4	661.3	660.4	659.5	658.6	657.7	657.7
170°	663.8	664.5	665.3	666.0	666.8	666.7	665.9	665.0	664.1	663.2	663.3
172.5°	667.9	668.6	669.4	670.2	670.9	670.8	670.0	669.1	668.2	667.3	667.4
175°	672.3	673.1	673.8	674.6	675.4	675.3	674.4	673.5	672.6	671.7	672.0
177.5°	674.4	675.0	675.6	676.2	676.8	676.8	676.2	675.6	675.0	674.4	674.6
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



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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°	6.0	5.6	5.0	4.4	4.3	4.2	4.8	5.4	5.0	4.7	4.7
90°	14.4	11.6	8.8	6.7	5.1	3.6	2.1	0.6	2.1	3.6	5.1
92.5°	16.8	16.2	15.5	14.6	13.5	12.4	11.3	10.2	11.3	12.4	13.5
95°	36.0	35.7	35.5	34.7	33.5	32.2	30.9	29.7	30.9	32.2	33.5
97.5°	60.4	59.9	59.4	58.6	57.5	56.4	55.3	54.2	55.3	56.4	57.5
100°	77.9	77.6	77.2	76.5	75.5	74.4	73.4	72.4	73.4	74.4	75.5
102.5°	96.4	96.0	95.5	94.8	94.0	93.2	92.4	91.6	92.4	93.2	94.0
105°	124.9	124.7	124.4	124.1	123.7	123.4	123.0	122.6	123.0	123.4	123.7
107.5°	156.4	156.4	156.4	156.1	155.5	155.0	154.4	153.9	154.4	155.0	155.5
110°	177.3	177.3	177.3	177.0	176.2	175.4	174.7	173.9	174.7	175.4	176.2



TEST NUMBER: P331622

CATALOG NUMBER: SA2XXRDIP-C290D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	199.0	199.1	199.2	198.9	198.1	197.3	196.6	195.8	196.6	197.3	198.1
115°	230.9	231.1	231.4	231.1	230.4	229.6	228.9	228.1	228.9	229.6	230.4
117.5°	263.0	263.8	264.5	264.3	263.3	262.3	261.3	260.3	261.3	262.3	263.3
120°	283.7	284.7	285.8	285.8	284.7	283.7	282.7	281.7	282.7	283.7	284.7
122.5°	305.0	305.7	306.4	306.2	305.0	303.8	302.5	301.3	302.5	303.8	305.0
125°	336.1	336.4	336.8	336.4	335.3	334.2	333.0	331.9	333.0	334.2	335.3
127.5°	367.0	367.5	367.9	367.4	366.0	364.5	363.1	361.6	363.1	364.5	366.0
130°	387.1	387.4	387.6	386.9	385.3	383.6	382.0	380.4	382.0	383.6	385.3
132.5°	407.5	407.5	407.4	406.7	405.4	404.0	402.7	401.3	402.7	404.0	405.4
135°	436.3	436.0	435.8	435.0	433.6	432.2	430.8	429.4	430.8	432.2	433.6
137.5°	464.9	464.6	464.2	463.5	462.4	461.2	460.1	458.9	460.1	461.2	462.4
140°	483.4	482.8	482.2	481.3	480.1	479.0	477.9	476.7	477.9	479.0	480.1
142.5°	501.2	500.8	500.3	499.5	498.4	497.3	496.1	495.0	496.1	497.3	498.4
145°	527.1	526.3	525.6	524.8	523.9	523.0	522.1	521.2	522.1	523.0	523.9
147.5°	550.6	550.1	549.6	548.8	547.8	546.7	545.6	544.6	545.6	546.7	547.8
150°	565.2	564.7	564.2	563.6	562.8	562.1	561.3	560.6	561.3	562.1	562.8
152.5°	579.6	579.0	578.4	577.7	577.0	576.2	575.5	574.7	575.5	576.2	577.0
155°	598.6	598.2	597.8	597.4	597.0	596.7	596.3	595.9	596.3	596.7	597.0
157.5°	615.8	615.5	615.3	615.1	614.8	614.5	614.3	614.0	614.3	614.5	614.8
160°	626.4	626.3	626.2	626.0	625.7	625.5	625.2	625.0	625.2	625.5	625.7
162.5°	635.6	635.4	635.3	635.2	635.2	635.1	635.1	635.0	635.1	635.1	635.2
165°	647.8	647.8	647.8	647.9	648.0	648.1	648.2	648.4	648.2	648.1	648.0
167.5°	657.8	657.8	657.8	658.0	658.4	658.8	659.2	659.5	659.2	658.8	658.4
170°	663.4	663.6	663.7	664.0	664.3	664.7	665.1	665.5	665.1	664.7	664.3
172.5°	667.6	667.7	667.8	668.1	668.4	668.8	669.2	669.6	669.2	668.8	668.4
175°	672.3	672.5	672.8	673.1	673.5	673.8	674.2	674.6	674.2	673.8	673.5
177.5°	674.8	675.0	675.2	675.4	675.7	676.0	676.3	676.7	676.3	676.0	675.7
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



TEST NUMBER: P331622

CATALOG NUMBER: SA2XXRDIP-C290D530U835-4F0-1E-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°	4.8	5.0	5.2	5.8	6.3	6.7	6.7	6.4	6.4	6.3	6.1
90°	6.7	8.8	11.6	14.4	17.2	20.0	19.7	19.5	19.2	18.9	18.9
92.5°	14.6	15.5	16.2	16.8	17.5	18.1	18.2	18.2	18.3	18.3	18.4
95°	34.7	35.5	35.7	36.0	36.2	36.5	36.5	36.5	36.5	36.5	36.4
97.5°	58.6	59.4	59.9	60.4	60.9	61.4	61.4	61.4	61.4	61.4	61.3
100°	76.5	77.2	77.6	77.9	78.3	78.7	78.7	78.7	78.7	78.7	78.6
102.5°	94.8	95.5	96.0	96.4	96.9	97.4	97.5	97.6	97.7	97.8	97.8
105°	124.1	124.4	124.7	124.9	125.2	125.5	125.7	126.0	126.2	126.5	126.6
107.5°	156.1	156.4	156.4	156.4	156.4	156.4	156.5	156.6	156.7	156.8	156.5
110°	177.0	177.3	177.3	177.3	177.3	177.3	177.3	177.3	177.3	177.3	177.2



TEST NUMBER: P331622

CATALOG NUMBER: SA2XXRDIP-C290D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	198.9	199.2	199.1	199.0	198.9	198.8	198.5	198.2	197.9	197.6	197.3
115°	231.1	231.4	231.1	230.9	230.6	230.4	230.3	230.1	230.0	229.9	229.6
117.5°	264.3	264.5	263.8	263.0	262.3	261.6	261.3	261.0	260.7	260.4	260.1
120°	285.8	285.8	284.7	283.7	282.7	281.7	281.7	281.7	281.7	281.7	281.5
122.5°	306.2	306.4	305.7	305.0	304.3	303.6	303.3	303.0	302.7	302.4	302.1
125°	336.4	336.8	336.4	336.1	335.7	335.3	334.9	334.5	334.2	333.8	333.5
127.5°	367.4	367.9	367.5	367.0	366.6	366.1	365.6	365.2	364.7	364.3	363.8
130°	386.9	387.6	387.4	387.1	386.9	386.6	386.4	386.1	385.9	385.6	385.2
132.5°	406.7	407.4	407.5	407.5	407.6	407.6	407.1	406.5	405.9	405.4	404.9
135°	435.0	435.8	436.0	436.3	436.6	436.8	436.7	436.6	436.4	436.3	436.0
137.5°	463.5	464.2	464.6	464.9	465.2	465.5	465.4	465.3	465.2	465.1	464.8
140°	481.3	482.2	482.8	483.4	484.1	484.7	484.7	484.7	484.7	484.7	484.5
142.5°	499.5	500.3	500.8	501.2	501.6	502.0	502.1	502.2	502.3	502.4	502.2
145°	524.8	525.6	526.3	527.1	527.9	528.6	528.7	528.9	529.0	529.1	528.9
147.5°	548.8	549.6	550.1	550.6	551.1	551.7	551.9	552.2	552.5	552.8	552.7
150°	563.6	564.2	564.7	565.2	565.7	566.3	566.6	567.0	567.4	567.8	567.8
152.5°	577.7	578.4	579.0	579.6	580.2	580.9	581.3	581.8	582.3	582.8	582.8
155°	597.4	597.8	598.2	598.6	598.9	599.3	600.0	600.6	601.2	601.9	602.0
157.5°	615.1	615.3	615.5	615.8	616.0	616.2	617.1	617.9	618.8	619.7	619.8
160°	626.0	626.2	626.3	626.4	626.6	626.7	627.5	628.2	629.0	629.7	629.9
162.5°	635.2	635.3	635.4	635.6	635.7	635.8	636.7	637.5	638.4	639.3	639.4
165°	647.9	647.8	647.8	647.8	647.8	647.8	648.7	649.6	650.5	651.3	651.5
167.5°	658.0	657.8	657.8	657.8	657.7	657.7	658.6	659.5	660.4	661.3	661.4
170°	664.0	663.7	663.6	663.4	663.3	663.2	664.1	665.0	665.9	666.7	666.8
172.5°	668.1	667.8	667.7	667.6	667.4	667.3	668.2	669.1	670.0	670.8	670.9
175°	673.1	672.8	672.5	672.3	672.0	671.7	672.6	673.5	674.4	675.3	675.4
177.5°	675.4	675.2	675.0	674.8	674.6	674.4	675.0	675.6	676.2	676.8	676.8
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



TEST NUMBER: P331622

CATALOG NUMBER: SA2XXRDIP-C290D530U835-4F0-1E-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°	6.2	6.0	6.2	6.1	6.2	6.0	6.2	6.1	6.3	6.4	6.4
90°	19.0	19.1	19.3	19.4	19.3	19.1	19.0	18.9	18.9	19.2	19.5
92.5°	18.4	18.4	18.5	18.5	18.5	18.4	18.4	18.4	18.3	18.3	18.2
95°	36.1	35.9	35.6	35.4	35.6	35.9	36.1	36.4	36.5	36.5	36.5
97.5°	61.3	61.3	61.3	61.2	61.3	61.3	61.3	61.3	61.4	61.4	61.4
100°	78.5	78.4	78.3	78.1	78.3	78.4	78.5	78.6	78.7	78.7	78.7
102.5°	97.7	97.5	97.4	97.3	97.4	97.5	97.7	97.8	97.8	97.7	97.6
105°	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.5	126.2	126.0
107.5°	155.9	155.4	154.8	154.2	154.8	155.4	155.9	156.5	156.8	156.7	156.6
110°	176.8	176.4	176.0	175.6	176.0	176.4	176.8	177.2	177.3	177.3	177.3



TEST NUMBER: P331622

CATALOG NUMBER: SA2XXRDIP-C290D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	197.0	196.7	196.4	196.2	196.4	196.7	197.0	197.3	197.6	197.9	198.2
115°	229.2	228.9	228.5	228.1	228.5	228.9	229.2	229.6	229.9	230.0	230.1
117.5°	259.7	259.3	258.9	258.5	258.9	259.3	259.7	260.1	260.4	260.7	261.0
120°	281.1	280.8	280.4	280.0	280.4	280.8	281.1	281.5	281.7	281.7	281.7
122.5°	301.8	301.5	301.3	301.0	301.3	301.5	301.8	302.1	302.4	302.7	303.0
125°	333.4	333.3	333.1	333.0	333.1	333.3	333.4	333.5	333.8	334.2	334.5
127.5°	363.4	363.0	362.6	362.2	362.6	363.0	363.4	363.8	364.3	364.7	365.2
130°	384.7	384.2	383.7	383.2	383.7	384.2	384.7	385.2	385.6	385.9	386.1
132.5°	404.5	404.1	403.7	403.3	403.7	404.1	404.5	404.9	405.4	405.9	406.5
135°	435.7	435.3	434.9	434.5	434.9	435.3	435.7	436.0	436.3	436.4	436.6
137.5°	464.3	463.8	463.3	462.8	463.3	463.8	464.3	464.8	465.1	465.2	465.3
140°	483.9	483.4	482.9	482.4	482.9	483.4	483.9	484.5	484.7	484.7	484.7
142.5°	501.7	501.2	500.7	500.2	500.7	501.2	501.7	502.2	502.4	502.3	502.2
145°	528.4	527.9	527.4	526.9	527.4	527.9	528.4	528.9	529.1	529.0	528.9
147.5°	552.2	551.7	551.2	550.7	551.2	551.7	552.2	552.7	552.8	552.5	552.2
150°	567.4	567.0	566.6	566.3	566.6	567.0	567.4	567.8	567.8	567.4	567.0
152.5°	582.3	581.8	581.3	580.9	581.3	581.8	582.3	582.8	582.8	582.3	581.8
155°	601.6	601.2	600.8	600.5	600.8	601.2	601.6	602.0	601.9	601.2	600.6
157.5°	619.2	618.6	618.0	617.3	618.0	618.6	619.2	619.8	619.7	618.8	617.9
160°	629.4	628.9	628.3	627.8	628.3	628.9	629.4	629.9	629.7	629.0	628.2
162.5°	638.8	638.2	637.6	637.0	637.6	638.2	638.8	639.4	639.3	638.4	637.5
165°	650.8	650.2	649.6	648.9	649.6	650.2	650.8	651.5	651.3	650.5	649.6
167.5°	660.7	660.1	659.4	658.7	659.4	660.1	660.7	661.4	661.3	660.4	659.5
170°	666.0	665.3	664.5	663.8	664.5	665.3	666.0	666.8	666.7	665.9	665.0
172.5°	670.2	669.4	668.6	667.9	668.6	669.4	670.2	670.9	670.8	670.0	669.1
175°	674.6	673.8	673.1	672.3	673.1	673.8	674.6	675.4	675.3	674.4	673.5
177.5°	676.2	675.6	675.0	674.4	675.0	675.6	676.2	676.8	676.8	676.2	675.6
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



TEST NUMBER: P331622

CATALOG NUMBER: SA2XXRDIP-C290D530U835-4F0-1E-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°	6.7	6.7	6.3	5.8	5.2	5.0	4.8	4.7	4.7	5.0	5.4
90°	19.7	20.0	17.2	14.4	11.6	8.8	6.7	5.1	3.6	2.1	0.6
92.5°	18.2	18.1	17.5	16.8	16.2	15.5	14.6	13.5	12.4	11.3	10.2
95°	36.5	36.5	36.2	36.0	35.7	35.5	34.7	33.5	32.2	30.9	29.7
97.5°	61.4	61.4	60.9	60.4	59.9	59.4	58.6	57.5	56.4	55.3	54.2
100°	78.7	78.7	78.3	77.9	77.6	77.2	76.5	75.5	74.4	73.4	72.4
102.5°	97.5	97.4	96.9	96.4	96.0	95.5	94.8	94.0	93.2	92.4	91.6
105°	125.7	125.5	125.2	124.9	124.7	124.4	124.1	123.7	123.4	123.0	122.6
107.5°	156.5	156.4	156.4	156.4	156.4	156.4	156.1	155.5	155.0	154.4	153.9
110°	177.3	177.3	177.3	177.3	177.3	177.3	177.0	176.2	175.4	174.7	173.9



TEST NUMBER: P331622

CATALOG NUMBER: SA2XXRDIP-C290D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	198.5	198.8	198.9	199.0	199.1	199.2	198.9	198.1	197.3	196.6	195.8
115°	230.3	230.4	230.6	230.9	231.1	231.4	231.1	230.4	229.6	228.9	228.1
117.5°	261.3	261.6	262.3	263.0	263.8	264.5	264.3	263.3	262.3	261.3	260.3
120°	281.7	281.7	282.7	283.7	284.7	285.8	285.8	284.7	283.7	282.7	281.7
122.5°	303.3	303.6	304.3	305.0	305.7	306.4	306.2	305.0	303.8	302.5	301.3
125°	334.9	335.3	335.7	336.1	336.4	336.8	336.4	335.3	334.2	333.0	331.9
127.5°	365.6	366.1	366.6	367.0	367.5	367.9	367.4	366.0	364.5	363.1	361.6
130°	386.4	386.6	386.9	387.1	387.4	387.6	386.9	385.3	383.6	382.0	380.4
132.5°	407.1	407.6	407.6	407.5	407.5	407.4	406.7	405.4	404.0	402.7	401.3
135°	436.7	436.8	436.6	436.3	436.0	435.8	435.0	433.6	432.2	430.8	429.4
137.5°	465.4	465.5	465.2	464.9	464.6	464.2	463.5	462.4	461.2	460.1	458.9
140°	484.7	484.7	484.1	483.4	482.8	482.2	481.3	480.1	479.0	477.9	476.7
142.5°	502.1	502.0	501.6	501.2	500.8	500.3	499.5	498.4	497.3	496.1	495.0
145°	528.7	528.6	527.9	527.1	526.3	525.6	524.8	523.9	523.0	522.1	521.2
147.5°	551.9	551.7	551.1	550.6	550.1	549.6	548.8	547.8	546.7	545.6	544.6
150°	566.6	566.3	565.7	565.2	564.7	564.2	563.6	562.8	562.1	561.3	560.6
152.5°	581.3	580.9	580.2	579.6	579.0	578.4	577.7	577.0	576.2	575.5	574.7
155°	600.0	599.3	598.9	598.6	598.2	597.8	597.4	597.0	596.7	596.3	595.9
157.5°	617.1	616.2	616.0	615.8	615.5	615.3	615.1	614.8	614.5	614.3	614.0
160°	627.5	626.7	626.6	626.4	626.3	626.2	626.0	625.7	625.5	625.2	625.0
162.5°	636.7	635.8	635.7	635.6	635.4	635.3	635.2	635.2	635.1	635.1	635.0
165°	648.7	647.8	647.8	647.8	647.8	647.8	647.9	648.0	648.1	648.2	648.4
167.5°	658.6	657.7	657.7	657.8	657.8	657.8	658.0	658.4	658.8	659.2	659.5
170°	664.1	663.2	663.3	663.4	663.6	663.7	664.0	664.3	664.7	665.1	665.5
172.5°	668.2	667.3	667.4	667.6	667.7	667.8	668.1	668.4	668.8	669.2	669.6
175°	672.6	671.7	672.0	672.3	672.5	672.8	673.1	673.5	673.8	674.2	674.6
177.5°	675.0	674.4	674.6	674.8	675.0	675.2	675.4	675.7	676.0	676.3	676.7
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



TEST NUMBER: P331622

CATALOG NUMBER: SA2XXRDIP-C290D530U835-4F0-1E-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°	4.8	4.2	4.3	4.4	5.0	5.6	6.0	6.5	7.3	7.0	7.2
90°	2.1	3.6	5.1	6.7	8.8	11.6	14.4	17.2	20.0	19.7	19.5
92.5°	11.3	12.4	13.5	14.6	15.5	16.2	16.8	17.5	18.1	18.2	18.2
95°	30.9	32.2	33.5	34.7	35.5	35.7	36.0	36.2	36.5	36.5	36.5
97.5°	55.3	56.4	57.5	58.6	59.4	59.9	60.4	60.9	61.4	61.4	61.4
100°	73.4	74.4	75.5	76.5	77.2	77.6	77.9	78.3	78.7	78.7	78.7
102.5°	92.4	93.2	94.0	94.8	95.5	96.0	96.4	96.9	97.4	97.5	97.6
105°	123.0	123.4	123.7	124.1	124.4	124.7	124.9	125.2	125.5	125.7	126.0
107.5°	154.4	155.0	155.5	156.1	156.4	156.4	156.4	156.4	156.4	156.5	156.6
110°	174.7	175.4	176.2	177.0	177.3	177.3	177.3	177.3	177.3	177.3	177.3



TEST NUMBER: P331622

CATALOG NUMBER: SA2XXRDIP-C290D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	196.6	197.3	198.1	198.9	199.2	199.1	199.0	198.9	198.8	198.5	198.2
115°	228.9	229.6	230.4	231.1	231.4	231.1	230.9	230.6	230.4	230.3	230.1
117.5°	261.3	262.3	263.3	264.3	264.5	263.8	263.0	262.3	261.6	261.3	261.0
120°	282.7	283.7	284.7	285.8	285.8	284.7	283.7	282.7	281.7	281.7	281.7
122.5°	302.5	303.8	305.0	306.2	306.4	305.7	305.0	304.3	303.6	303.3	303.0
125°	333.0	334.2	335.3	336.4	336.8	336.4	336.1	335.7	335.3	334.9	334.5
127.5°	363.1	364.5	366.0	367.4	367.9	367.5	367.0	366.6	366.1	365.6	365.2
130°	382.0	383.6	385.3	386.9	387.6	387.4	387.1	386.9	386.6	386.4	386.1
132.5°	402.7	404.0	405.4	406.7	407.4	407.5	407.5	407.6	407.6	407.1	406.5
135°	430.8	432.2	433.6	435.0	435.8	436.0	436.3	436.6	436.8	436.7	436.6
137.5°	460.1	461.2	462.4	463.5	464.2	464.6	464.9	465.2	465.5	465.4	465.3
140°	477.9	479.0	480.1	481.3	482.2	482.8	483.4	484.1	484.7	484.7	484.7
142.5°	496.1	497.3	498.4	499.5	500.3	500.8	501.2	501.6	502.0	502.1	502.2
145°	522.1	523.0	523.9	524.8	525.6	526.3	527.1	527.9	528.6	528.7	528.9
147.5°	545.6	546.7	547.8	548.8	549.6	550.1	550.6	551.1	551.7	551.9	552.2
150°	561.3	562.1	562.8	563.6	564.2	564.7	565.2	565.7	566.3	566.6	567.0
152.5°	575.5	576.2	577.0	577.7	578.4	579.0	579.6	580.2	580.9	581.3	581.8
155°	596.3	596.7	597.0	597.4	597.8	598.2	598.6	598.9	599.3	600.0	600.6
157.5°	614.3	614.5	614.8	615.1	615.3	615.5	615.8	616.0	616.2	617.1	617.9
160°	625.2	625.5	625.7	626.0	626.2	626.3	626.4	626.6	626.7	627.5	628.2
162.5°	635.1	635.1	635.2	635.2	635.3	635.4	635.6	635.7	635.8	636.7	637.5
165°	648.2	648.1	648.0	647.9	647.8	647.8	647.8	647.8	647.8	648.7	649.6
167.5°	659.2	658.8	658.4	658.0	657.8	657.8	657.8	657.7	657.7	658.6	659.5
170°	665.1	664.7	664.3	664.0	663.7	663.6	663.4	663.3	663.2	664.1	665.0
172.5°	669.2	668.8	668.4	668.1	667.8	667.7	667.6	667.4	667.3	668.2	669.1
175°	674.2	673.8	673.5	673.1	672.8	672.5	672.3	672.0	671.7	672.6	673.5
177.5°	676.3	676.0	675.7	675.4	675.2	675.0	674.8	674.6	674.4	675.0	675.6
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



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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°	6.9	6.9	6.9	6.9	6.9	6.9	6.8
90°	19.2	18.9	18.9	19.0	19.1	19.3	19.4
92.5°	18.3	18.3	18.4	18.4	18.4	18.5	18.5
95°	36.5	36.5	36.4	36.1	35.9	35.6	35.4
97.5°	61.4	61.4	61.3	61.3	61.3	61.3	61.2
100°	78.7	78.7	78.6	78.5	78.4	78.3	78.1
102.5°	97.7	97.8	97.8	97.7	97.5	97.4	97.3
105°	126.2	126.5	126.6	126.6	126.6	126.6	126.6
107.5°	156.7	156.8	156.5	155.9	155.4	154.8	154.2
110°	177.3	177.3	177.2	176.8	176.4	176.0	175.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	197.9	197.6	197.3	197.0	196.7	196.4	196.2
115°	230.0	229.9	229.6	229.2	228.9	228.5	228.1
117.5°	260.7	260.4	260.1	259.7	259.3	258.9	258.5
120°	281.7	281.7	281.5	281.1	280.8	280.4	280.0
122.5°	302.7	302.4	302.1	301.8	301.5	301.3	301.0
125°	334.2	333.8	333.5	333.4	333.3	333.1	333.0
127.5°	364.7	364.3	363.8	363.4	363.0	362.6	362.2
130°	385.9	385.6	385.2	384.7	384.2	383.7	383.2
132.5°	405.9	405.4	404.9	404.5	404.1	403.7	403.3
135°	436.4	436.3	436.0	435.7	435.3	434.9	434.5
137.5°	465.2	465.1	464.8	464.3	463.8	463.3	462.8
140°	484.7	484.7	484.5	483.9	483.4	482.9	482.4
142.5°	502.3	502.4	502.2	501.7	501.2	500.7	500.2
145°	529.0	529.1	528.9	528.4	527.9	527.4	526.9
147.5°	552.5	552.8	552.7	552.2	551.7	551.2	550.7
150°	567.4	567.8	567.8	567.4	567.0	566.6	566.3
152.5°	582.3	582.8	582.8	582.3	581.8	581.3	580.9
155°	601.2	601.9	602.0	601.6	601.2	600.8	600.5
157.5°	618.8	619.7	619.8	619.2	618.6	618.0	617.3
160°	629.0	629.7	629.9	629.4	628.9	628.3	627.8
162.5°	638.4	639.3	639.4	638.8	638.2	637.6	637.0
165°	650.5	651.3	651.5	650.8	650.2	649.6	648.9
167.5°	660.4	661.3	661.4	660.7	660.1	659.4	658.7
170°	665.9	666.7	666.8	666.0	665.3	664.5	663.8
172.5°	670.0	670.8	670.9	670.2	669.4	668.6	667.9
175°	674.4	675.3	675.4	674.6	673.8	673.1	672.3
177.5°	676.2	676.8	676.8	676.2	675.6	675.0	674.4
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7

(END OF REPORT)