

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: P331259-930

Luminaire Tested: **SA2XXDIP-C290D725U930-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331259-930
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: SA2XXDIP-C290D725U930-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3177.8 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

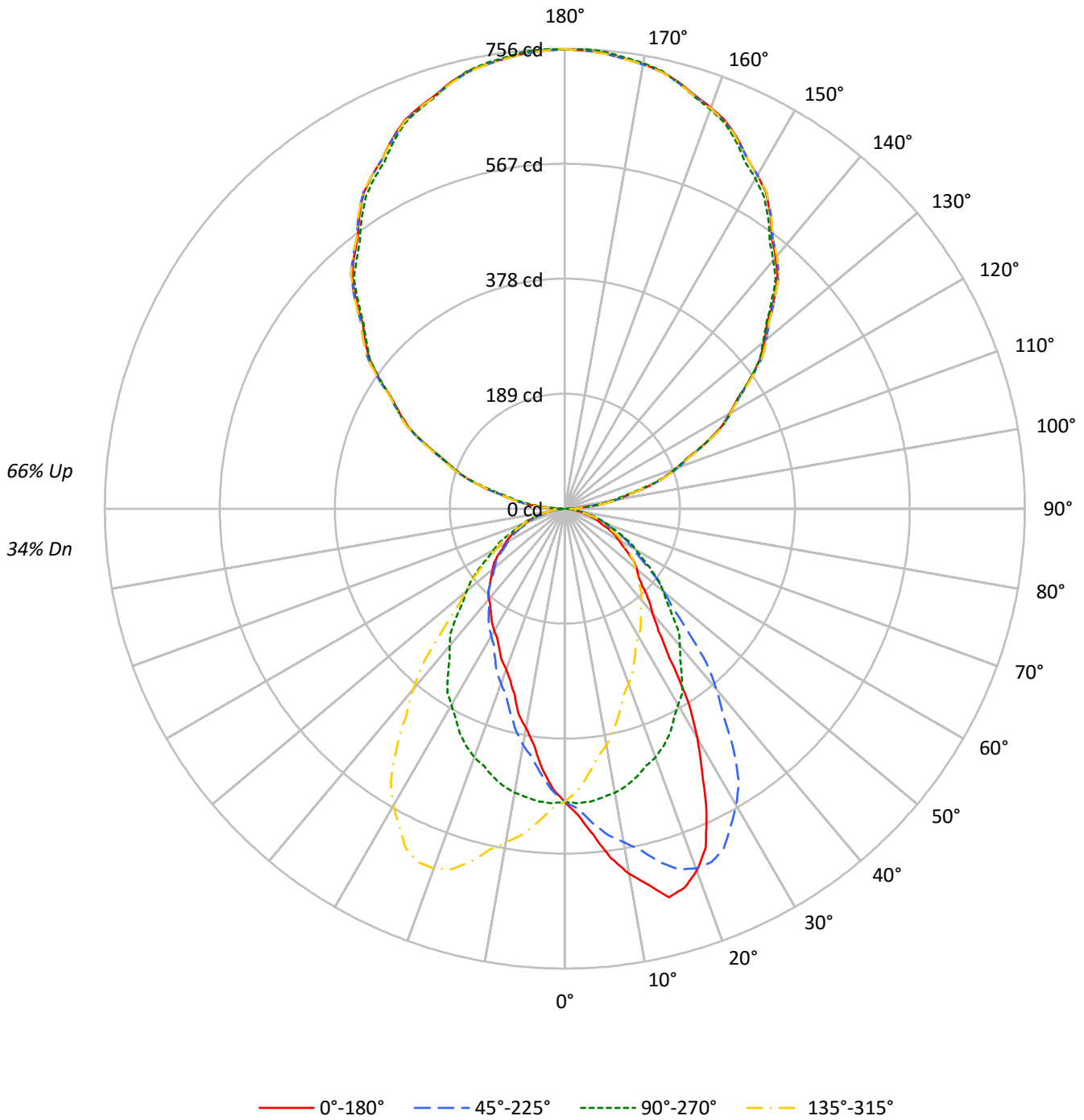
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	94	90	87	83	85	82	79	76	65	63	61	50	49	48	37	36	35	29				
2	86	79	73	68	78	72	67	63	58	54	51	45	42	40	33	31	30	25				
3	79	70	63	57	71	63	57	53	51	47	43	40	37	35	29	27	26	21				
4	72	62	54	49	65	56	50	45	46	41	37	36	32	30	26	24	23	19				
5	66	55	48	42	60	50	44	39	41	36	32	32	29	26	24	22	20	16				
6	61	50	42	36	55	45	38	34	37	32	28	29	26	23	22	19	18	15				
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	20	18	16	13				
8	52	41	33	28	47	37	31	26	30	26	22	24	21	18	18	16	14	12				
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13	11				
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	13	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7781	7781	7781	7781
5°	8723	7831	6940	7831
10°	9996	7768	6005	7768
15°	11057	7626	5307	7626
20°	10890	7472	4837	7472
25°	9818	7269	4541	7269
30°	8114	6943	4323	6943
35°	5913	6603	4169	6603
40°	4723	6203	4083	6203
45°	4128	5740	3966	5740
50°	3881	5290	3888	5290
55°	3575	4833	3783	4833
60°	3278	4346	3626	4346
65°	2988	3912	3465	3912
70°	2710	3489	3238	3489
75°	2408	3013	2863	3013
80°	2073	2492	2306	2492
85°	1853	1853	1371	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	1.4
10°-20°	133.4	4.2
20°-30°	193.6	6.1
30°-40°	204.3	6.4
40°-50°	180.9	5.7
50°-60°	144.4	4.5
60°-70°	98.1	3.1
70°-80°	50.3	1.6
80°-90°	15.1	0.5
90°-100°	47.9	1.5
100°-110°	148.6	4.7
110°-120°	254.0	8.0
120°-130°	334.1	10.5
130°-140°	375.0	11.8
140°-150°	367.7	11.6
150°-160°	308.4	9.7
160°-170°	204.5	6.4
170°-180°	71.5	2.2
0°-30°	373.0	11.7
0°-40°	577.3	18.2
0°-60°	902.6	28.4
0°-90°	1066.2	33.6
90°-120°	450.5	14.2
90°-150°	1527.2	48.1
90°-180°	2112.0	66.5
0°-180°	3177.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	482	482	482	482	482	
5°	538	483	428	483	538	54
15°	662	456	318	456	662	183
25°	551	408	255	408	551	249
35°	300	335	212	335	300	195
45°	181	251	174	251	181	142
55°	127	172	134	172	127	114
65°	78	102	91	102	78	78
75°	39	48	46	48	39	41
85°	10	10	7	10	10	12
90°	22	1	22	1	22	10
95°	40	33	40	33	40	44
105°	142	137	142	137	142	149
115°	255	255	255	255	255	252
125°	372	371	372	371	372	332
135°	486	480	486	480	486	374
145°	589	582	589	582	589	368
155°	671	666	671	666	671	309
165°	725	725	725	725	725	205
175°	751	754	751	754	751	71
180°	755	755	755	755	755	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	504.1	504.3	504.6	502.2	501.9	501.9	499.9	498.1	495.9	493.2	493.5
5°	538.2	540.2	541.0	538.7	535.4	535.1	531.9	526.8	521.9	518.0	515.3
7.5°	578.9	579.7	577.9	574.9	572.5	568.0	562.1	556.4	548.4	541.0	535.6
10°	609.7	610.8	607.6	603.4	599.9	594.7	586.2	577.5	567.0	556.8	548.6
12.5°	633.1	635.9	631.8	631.3	625.3	618.1	608.0	603.6	588.7	574.5	565.7
15°	661.5	661.4	661.8	658.2	653.8	652.6	642.0	630.2	609.4	601.0	586.5
17.5°	653.3	656.2	657.5	657.4	657.3	656.6	653.1	645.8	635.3	621.7	605.1
20°	633.8	637.5	638.1	642.3	644.7	647.8	649.1	647.1	640.7	629.3	614.9
22.5°	603.6	604.6	606.3	612.9	618.2	626.1	630.1	637.1	634.5	629.0	616.9
25°	551.1	549.3	555.8	559.1	571.2	583.8	592.9	602.8	611.7	617.1	613.6
27.5°	488.3	485.5	495.2	504.1	513.8	527.5	541.6	558.3	572.2	589.6	595.6
30°	435.2	436.9	446.1	455.6	470.4	489.7	505.6	523.9	543.8	563.2	576.7
32.5°	378.1	384.4	390.3	404.8	417.8	439.3	462.7	485.6	510.3	532.4	553.3
35°	300.0	307.4	315.6	326.1	344.5	365.7	388.6	419.5	453.2	483.4	508.2
37.5°	252.6	251.4	256.0	263.7	278.5	295.7	322.0	352.5	392.2	427.6	462.7
40°	224.1	223.4	226.7	233.7	245.0	257.6	280.6	307.4	344.3	387.7	429.3
42.5°	204.6	205.0	206.8	211.8	219.6	229.9	247.1	269.9	303.7	344.5	389.3
45°	180.8	182.1	184.1	186.5	190.9	199.5	209.1	225.4	252.1	286.2	330.2
47.5°	163.6	163.7	165.8	167.9	170.5	175.3	183.2	193.4	212.2	239.9	277.9
50°	154.5	153.2	154.7	156.3	159.1	162.4	167.6	177.2	189.8	212.2	243.9
52.5°	143.2	143.2	144.6	145.2	147.7	151.0	155.7	162.4	173.8	191.4	217.4
55°	127.0	128.0	128.7	129.8	132.1	134.4	138.2	142.6	151.5	164.6	183.9
57.5°	111.9	112.2	112.9	115.0	116.4	118.6	122.1	126.2	132.0	141.7	156.2
60°	101.5	101.5	103.0	103.9	105.7	107.9	110.7	114.6	119.8	127.8	139.5
62.5°	92.0	91.9	92.5	94.0	95.4	97.4	100.2	103.5	108.4	115.5	125.1
65°	78.2	77.8	78.9	79.2	80.7	82.8	85.0	88.5	92.5	97.6	106.2
67.5°	64.8	65.3	65.9	66.5	67.3	69.5	71.0	73.5	76.8	81.1	86.8
70°	57.4	57.4	57.4	58.0	59.1	60.2	61.6	63.7	66.9	70.5	75.7
72.5°	49.1	49.7	50.3	50.0	51.4	52.0	53.8	55.0	58.0	60.3	64.9
75°	38.6	38.6	38.6	39.5	40.0	40.5	41.7	42.8	44.3	47.2	49.7
77.5°	28.8	28.7	28.9	29.1	29.7	30.3	30.7	31.6	33.0	34.4	36.4
80°	22.3	22.6	22.7	23.2	23.2	23.5	23.7	25.0	25.9	26.8	28.1
82.5°	17.2	17.3	17.3	17.4	17.5	17.8	18.3	18.7	19.0	19.7	20.7
85°	10.0	9.8	9.8	10.2	10.0	10.0	10.4	10.8	10.8	10.9	11.5
87.5°	8.2	8.2	8.3	8.1	8.1	8.2	8.3	8.2	8.4	8.6	8.2
90°	21.7	21.5	21.4	21.3	21.1	21.2	21.4	21.8	22.0	22.3	19.2
92.5°	20.6	20.6	20.6	20.5	20.5	20.5	20.5	20.4	20.3	20.3	19.6
95°	39.5	39.8	40.1	40.4	40.7	40.8	40.8	40.8	40.8	40.8	40.5
97.5°	68.4	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.0
100°	87.3	87.5	87.6	87.7	87.9	88.0	88.0	88.0	88.0	88.0	87.5
102.5°	108.7	108.8	109.0	109.2	109.3	109.3	109.2	109.1	108.9	108.8	108.3
105°	141.5	141.5	141.5	141.5	141.5	141.4	141.0	140.8	140.5	140.2	139.9
107.5°	172.4	173.0	173.7	174.3	175.0	175.2	175.0	175.0	174.9	174.7	174.7
110°	196.2	196.7	197.1	197.5	198.0	198.2	198.2	198.2	198.2	198.2	198.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	219.2	219.6	219.8	220.1	220.5	220.8	221.1	221.4	221.8	222.2	222.3
115°	254.9	255.4	255.8	256.2	256.6	256.9	257.1	257.1	257.3	257.5	257.7
117.5°	288.9	289.3	289.8	290.2	290.7	291.0	291.4	291.7	292.0	292.4	293.2
120°	312.9	313.3	313.7	314.1	314.6	314.8	314.8	314.8	314.8	314.8	315.9
122.5°	336.4	336.6	337.0	337.3	337.6	337.9	338.3	338.6	338.9	339.2	340.1
125°	372.2	372.3	372.4	372.6	372.8	373.0	373.4	373.9	374.3	374.7	375.1
127.5°	404.8	405.3	405.7	406.2	406.6	407.1	407.6	408.1	408.6	409.1	409.6
130°	428.3	428.8	429.4	429.9	430.5	431.0	431.2	431.5	431.8	432.1	432.4
132.5°	450.7	451.1	451.6	452.0	452.5	453.1	453.6	454.3	454.9	455.5	455.4
135°	485.6	486.0	486.5	486.9	487.3	487.5	487.7	487.9	488.0	488.1	487.9
137.5°	517.2	517.8	518.4	518.9	519.5	519.8	519.9	520.1	520.2	520.2	519.9
140°	539.2	539.7	540.3	540.9	541.4	541.7	541.7	541.7	541.7	541.7	541.0
142.5°	559.1	559.6	560.1	560.7	561.3	561.5	561.4	561.3	561.2	561.1	560.6
145°	588.8	589.4	590.0	590.5	591.1	591.3	591.2	591.0	590.9	590.8	589.9
147.5°	615.5	616.0	616.5	617.1	617.7	617.8	617.4	617.1	616.8	616.5	616.0
150°	632.8	633.2	633.7	634.1	634.5	634.5	634.1	633.7	633.2	632.8	632.3
152.5°	649.1	649.6	650.2	650.8	651.3	651.3	650.8	650.2	649.6	649.1	648.4
155°	671.1	671.5	671.9	672.3	672.8	672.6	671.9	671.2	670.5	669.8	669.4
157.5°	689.9	690.6	691.3	691.9	692.6	692.5	691.5	690.6	689.6	688.6	688.4
160°	701.6	702.2	702.8	703.4	703.9	703.8	703.0	702.1	701.2	700.3	700.3
162.5°	711.8	712.5	713.2	713.9	714.5	714.4	713.5	712.5	711.5	710.5	710.5
165°	725.2	725.9	726.6	727.3	728.1	727.9	726.9	725.9	725.0	723.9	723.9
167.5°	736.2	736.9	737.7	738.4	739.2	739.0	738.0	737.0	736.1	735.0	735.1
170°	741.8	742.7	743.5	744.4	745.2	745.1	744.1	743.1	742.2	741.1	741.3
172.5°	746.4	747.2	748.0	748.9	749.7	749.7	748.7	747.7	746.7	745.8	745.9
175°	751.4	752.2	753.0	753.9	754.7	754.6	753.7	752.7	751.7	750.7	751.0
177.5°	753.7	754.3	755.0	755.7	756.4	756.4	755.7	755.0	754.3	753.7	753.8
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	494.5	493.3	492.6	489.9	487.5	485.2	484.5	484.7	481.4	478.3	477.0
5°	513.8	510.1	506.5	501.6	495.6	489.1	485.8	483.2	476.7	469.7	465.6
7.5°	531.0	525.7	518.9	509.6	500.9	490.7	484.2	478.5	469.0	459.1	453.0
10°	541.5	534.3	525.6	514.1	503.6	491.1	482.5	473.8	462.7	450.8	443.4
12.5°	550.6	540.9	532.3	517.6	505.1	489.5	479.2	466.9	455.3	441.2	433.9
15°	572.1	554.2	537.9	521.1	505.8	484.1	472.6	456.2	440.8	423.4	415.1
17.5°	588.7	568.5	542.9	521.7	503.8	479.7	462.9	443.2	425.0	405.1	393.8
20°	598.2	575.0	547.5	522.3	500.8	473.4	455.0	434.9	413.6	391.2	379.0
22.5°	603.8	579.5	552.2	520.1	494.9	468.2	445.2	423.0	401.5	377.2	364.4
25°	605.6	583.4	554.5	518.2	487.5	457.3	429.5	408.0	381.9	359.3	340.6
27.5°	596.8	580.9	553.1	514.7	478.9	443.6	412.6	388.3	360.8	336.2	317.4
30°	586.0	576.7	549.7	511.2	472.1	434.1	400.1	372.4	345.0	320.2	300.9
32.5°	569.2	567.3	543.5	506.1	464.8	422.2	386.9	359.0	328.6	304.2	285.8
35°	536.4	545.3	530.3	494.9	451.2	405.0	366.9	335.0	303.5	280.2	263.0
37.5°	492.3	514.4	510.5	478.4	432.7	386.5	344.3	311.0	281.0	257.5	240.6
40°	461.9	490.1	494.2	465.8	419.7	372.1	327.4	294.3	265.1	243.5	226.5
42.5°	429.3	462.2	473.4	450.7	405.4	356.9	312.3	278.0	249.0	228.1	213.0
45°	374.7	418.2	438.4	425.4	381.7	332.1	286.2	251.4	225.0	205.4	193.7
47.5°	323.6	371.1	398.3	393.7	355.3	306.1	260.7	227.3	201.7	186.1	175.6
50°	287.5	336.3	369.1	370.6	336.3	287.6	242.1	210.6	187.0	172.4	163.9
52.5°	256.0	302.7	338.4	346.3	315.1	268.4	225.3	194.0	173.3	159.8	152.2
55°	215.0	254.5	294.1	308.6	283.6	239.1	199.3	171.7	152.2	143.0	136.3
57.5°	178.8	211.7	248.3	264.2	248.8	210.8	173.4	149.4	133.7	125.6	120.4
60°	159.6	185.6	218.2	237.3	223.9	190.0	157.4	134.6	121.6	114.5	109.7
62.5°	141.9	164.9	192.4	209.9	202.6	170.6	141.5	121.3	110.1	103.4	99.9
65°	117.1	135.2	156.5	172.6	167.8	143.6	119.6	102.4	93.5	88.1	85.4
67.5°	96.4	109.5	124.3	138.4	134.5	117.3	98.2	84.7	78.1	73.5	71.7
70°	83.3	93.4	106.5	117.8	114.6	100.6	85.4	73.9	68.2	64.2	62.6
72.5°	70.9	79.1	89.2	98.4	96.3	84.5	71.9	63.3	58.8	55.2	53.9
75°	53.6	59.8	66.0	72.1	71.5	62.5	55.0	48.3	44.8	42.1	41.5
77.5°	39.5	43.0	47.2	50.8	49.8	44.6	38.8	35.0	32.4	30.6	30.2
80°	30.2	32.2	35.2	37.7	36.5	34.2	29.6	26.8	25.0	23.2	22.4
82.5°	21.9	23.9	25.7	27.1	26.1	24.1	21.2	19.3	18.2	17.0	16.6
85°	11.5	12.6	13.4	13.7	13.4	12.1	10.8	10.0	9.0	8.5	8.3
87.5°	7.7	7.0	6.4	6.2	5.5	5.1	4.2	3.4	3.6	3.8	3.8
90°	16.1	13.0	9.9	7.4	5.7	4.1	2.4	0.7	2.4	4.1	5.7
92.5°	18.8	18.0	17.3	16.3	15.1	13.9	12.6	11.3	12.6	13.9	15.1
95°	40.2	39.9	39.6	38.8	37.4	36.0	34.6	33.1	34.6	36.0	37.4
97.5°	67.5	66.9	66.4	65.6	64.2	63.0	61.8	60.6	61.8	63.0	64.2
100°	87.1	86.7	86.3	85.4	84.3	83.2	82.1	81.0	82.1	83.2	84.3
102.5°	107.8	107.2	106.7	106.0	105.1	104.2	103.2	102.3	103.2	104.2	105.1
105°	139.7	139.3	139.1	138.7	138.3	137.9	137.5	137.1	137.5	137.9	138.3
107.5°	174.7	174.7	174.7	174.4	173.8	173.2	172.6	171.9	172.6	173.2	173.8
110°	198.2	198.2	198.2	197.8	196.9	196.1	195.2	194.4	195.2	196.1	196.9



TEST NUMBER: P331259-930

CATALOG NUMBER: SA2XXDIP-C290D725U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	222.4	222.5	222.6	222.3	221.4	220.5	219.7	218.8	219.7	220.5	221.4
115°	258.0	258.3	258.6	258.3	257.5	256.6	255.8	254.9	255.8	256.6	257.5
117.5°	294.0	294.7	295.5	295.4	294.2	293.1	292.0	290.8	292.0	293.1	294.2
120°	317.1	318.2	319.4	319.4	318.2	317.1	315.9	314.8	315.9	317.1	318.2
122.5°	340.9	341.7	342.4	342.2	340.8	339.5	338.1	336.7	338.1	339.5	340.8
125°	375.5	376.0	376.4	376.0	374.7	373.4	372.2	370.9	372.2	373.4	374.7
127.5°	410.2	410.7	411.2	410.6	409.0	407.4	405.8	404.1	405.8	407.4	409.0
130°	432.6	432.9	433.2	432.4	430.6	428.8	426.9	425.1	426.9	428.8	430.6
132.5°	455.4	455.3	455.3	454.5	453.0	451.5	450.0	448.5	450.0	451.5	453.0
135°	487.5	487.3	487.0	486.1	484.5	483.0	481.4	479.9	481.4	483.0	484.5
137.5°	519.5	519.2	518.8	518.0	516.7	515.4	514.1	512.9	514.1	515.4	516.7
140°	540.3	539.6	538.8	537.9	536.5	535.3	534.0	532.8	534.0	535.3	536.5
142.5°	560.1	559.6	559.1	558.2	557.0	555.7	554.4	553.2	554.4	555.7	557.0
145°	589.1	588.2	587.3	586.4	585.5	584.5	583.4	582.4	583.4	584.5	585.5
147.5°	615.4	614.8	614.2	613.3	612.1	611.0	609.8	608.6	609.8	611.0	612.1
150°	631.7	631.1	630.6	629.8	629.0	628.1	627.3	626.5	627.3	628.1	629.0
152.5°	647.8	647.1	646.4	645.6	644.8	643.9	643.1	642.2	643.1	643.9	644.8
155°	669.0	668.5	668.1	667.6	667.2	666.8	666.3	665.9	666.3	666.8	667.2
157.5°	688.1	687.9	687.6	687.4	687.1	686.8	686.5	686.2	686.5	686.8	687.1
160°	700.1	699.9	699.8	699.6	699.3	699.0	698.7	698.5	698.7	699.0	699.3
162.5°	710.3	710.1	710.0	709.9	709.8	709.8	709.7	709.6	709.7	709.8	709.8
165°	723.9	723.9	723.9	724.0	724.1	724.3	724.5	724.6	724.5	724.3	724.1
167.5°	735.1	735.2	735.2	735.4	735.8	736.2	736.6	737.0	736.6	736.2	735.8
170°	741.4	741.6	741.7	742.0	742.4	742.8	743.3	743.7	743.3	742.8	742.4
172.5°	746.0	746.2	746.3	746.6	747.0	747.5	747.9	748.3	747.9	747.5	747.0
175°	751.3	751.5	751.9	752.2	752.6	753.0	753.5	753.9	753.5	753.0	752.6
177.5°	754.1	754.3	754.6	754.8	755.1	755.5	755.9	756.2	755.9	755.5	755.1
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1



TEST NUMBER: P331259-930

CATALOG NUMBER: SA2XXDIP-C290D725U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	475.6	474.7	471.6	469.9	467.2	464.7	463.1	463.8	464.4	464.1	463.7
5°	461.9	458.4	453.0	448.4	445.1	439.0	436.3	435.0	433.9	432.7	431.4
7.5°	445.6	440.1	432.4	425.8	419.6	412.0	407.6	405.1	402.4	399.5	396.9
10°	434.1	426.3	418.2	409.0	401.5	394.7	388.6	384.5	380.7	377.2	374.7
12.5°	422.0	413.0	402.9	390.3	382.1	372.3	371.4	364.2	358.4	356.2	353.2
15°	402.7	390.0	377.2	362.2	355.8	346.9	341.4	335.7	330.8	327.3	326.4
17.5°	380.7	364.4	351.6	340.9	330.3	321.1	316.0	311.6	307.4	302.8	302.1
20°	363.9	349.8	336.0	326.5	315.6	306.3	300.0	295.6	292.0	289.3	286.9
22.5°	348.1	332.6	319.9	309.7	298.9	291.4	286.4	282.1	279.2	276.1	273.9
25°	322.6	310.6	296.7	285.0	276.1	271.3	267.3	263.6	261.7	259.7	257.1
27.5°	300.4	287.0	274.0	265.0	257.1	252.9	250.0	247.4	245.7	244.5	243.0
30°	284.7	271.2	261.0	252.1	245.6	241.3	239.5	238.0	235.9	235.2	234.5
32.5°	269.5	257.4	248.7	240.9	234.8	232.0	230.3	228.9	227.4	226.7	225.1
35°	248.2	238.0	229.5	225.2	220.2	217.8	216.5	214.7	213.2	212.5	212.2
37.5°	228.0	219.2	213.6	208.1	206.0	204.6	202.8	201.5	201.1	201.0	200.7
40°	215.0	207.8	202.8	198.4	197.5	195.2	193.7	192.7	192.7	192.8	192.7
42.5°	203.2	196.7	192.2	188.4	187.4	186.1	184.5	184.5	184.7	185.4	184.7
45°	185.2	180.6	177.4	175.6	173.6	172.3	172.0	172.6	172.8	173.0	173.6
47.5°	168.7	165.6	162.7	160.7	159.8	159.6	159.4	160.4	161.3	161.6	162.4
50°	158.9	155.4	153.0	151.6	150.9	150.6	150.9	152.1	152.8	153.7	154.3
52.5°	148.0	145.4	143.8	142.8	142.5	142.8	142.8	144.1	145.2	145.6	145.9
55°	132.8	130.9	130.6	128.9	129.6	129.5	130.4	131.1	132.2	133.4	133.5
57.5°	117.6	116.2	115.2	115.4	115.6	116.4	117.2	118.5	119.6	120.8	120.9
60°	107.6	106.9	106.3	106.3	106.6	107.8	108.7	110.0	110.7	111.5	112.0
62.5°	98.4	97.7	97.1	97.4	98.4	99.1	100.1	100.9	101.6	102.3	102.6
65°	83.9	83.6	84.1	84.5	84.6	85.5	86.8	87.4	88.1	88.5	89.8
67.5°	70.5	70.6	70.5	71.0	72.2	72.3	73.5	74.8	75.0	75.7	76.6
70°	61.5	61.9	62.2	62.6	63.5	63.9	64.8	65.4	66.1	66.7	67.3
72.5°	53.2	53.2	53.6	53.6	54.4	55.1	55.9	56.5	57.2	58.0	58.5
75°	40.9	40.9	41.3	41.5	42.4	43.4	43.1	43.5	44.3	45.0	45.4
77.5°	29.9	29.5	29.9	30.1	30.4	31.1	31.3	31.8	32.7	32.4	32.9
80°	22.7	22.3	22.7	23.0	23.0	23.9	23.9	24.3	24.8	24.3	24.8
82.5°	16.2	16.0	16.4	16.5	16.7	16.8	17.0	17.1	17.7	17.4	17.7
85°	8.2	8.0	8.2	8.0	8.2	8.3	8.3	8.2	8.2	8.5	8.0
87.5°	4.0	4.3	4.8	5.5	6.0	6.4	6.2	6.1	6.0	5.7	5.7
90°	7.4	9.9	13.0	16.1	19.2	22.3	22.0	21.8	21.4	21.2	21.1
92.5°	16.3	17.3	18.0	18.8	19.6	20.3	20.3	20.4	20.5	20.5	20.5
95°	38.8	39.6	39.9	40.2	40.5	40.8	40.8	40.8	40.8	40.8	40.7
97.5°	65.6	66.4	66.9	67.5	68.0	68.6	68.6	68.6	68.6	68.6	68.6
100°	85.4	86.3	86.7	87.1	87.5	88.0	88.0	88.0	88.0	88.0	87.9
102.5°	106.0	106.7	107.2	107.8	108.3	108.8	108.9	109.1	109.2	109.3	109.3
105°	138.7	139.1	139.3	139.7	139.9	140.2	140.5	140.8	141.0	141.4	141.5
107.5°	174.4	174.7	174.7	174.7	174.7	174.7	174.9	175.0	175.0	175.2	175.0
110°	197.8	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.0



TEST NUMBER: P331259-930

CATALOG NUMBER: SA2XXDIP-C290D725U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	222.3	222.6	222.5	222.4	222.3	222.2	221.8	221.4	221.1	220.8	220.5
115°	258.3	258.6	258.3	258.0	257.7	257.5	257.3	257.1	257.1	256.9	256.6
117.5°	295.4	295.5	294.7	294.0	293.2	292.4	292.0	291.7	291.4	291.0	290.7
120°	319.4	319.4	318.2	317.1	315.9	314.8	314.8	314.8	314.8	314.8	314.6
122.5°	342.2	342.4	341.7	340.9	340.1	339.2	338.9	338.6	338.3	337.9	337.6
125°	376.0	376.4	376.0	375.5	375.1	374.7	374.3	373.9	373.4	373.0	372.8
127.5°	410.6	411.2	410.7	410.2	409.6	409.1	408.6	408.1	407.6	407.1	406.6
130°	432.4	433.2	432.9	432.6	432.4	432.1	431.8	431.5	431.2	431.0	430.5
132.5°	454.5	455.3	455.3	455.4	455.4	455.5	454.9	454.3	453.6	453.1	452.5
135°	486.1	487.0	487.3	487.5	487.9	488.1	488.0	487.9	487.7	487.5	487.3
137.5°	518.0	518.8	519.2	519.5	519.9	520.2	520.2	520.1	519.9	519.8	519.5
140°	537.9	538.8	539.6	540.3	541.0	541.7	541.7	541.7	541.7	541.7	541.4
142.5°	558.2	559.1	559.6	560.1	560.6	561.1	561.2	561.3	561.4	561.5	561.3
145°	586.4	587.3	588.2	589.1	589.9	590.8	590.9	591.0	591.2	591.3	591.1
147.5°	613.3	614.2	614.8	615.4	616.0	616.5	616.8	617.1	617.4	617.8	617.7
150°	629.8	630.6	631.1	631.7	632.3	632.8	633.2	633.7	634.1	634.5	634.5
152.5°	645.6	646.4	647.1	647.8	648.4	649.1	649.6	650.2	650.8	651.3	651.3
155°	667.6	668.1	668.5	669.0	669.4	669.8	670.5	671.2	671.9	672.6	672.8
157.5°	687.4	687.6	687.9	688.1	688.4	688.6	689.6	690.6	691.5	692.5	692.6
160°	699.6	699.8	699.9	700.1	700.3	700.3	701.2	702.1	703.0	703.8	703.9
162.5°	709.9	710.0	710.1	710.3	710.5	710.5	711.5	712.5	713.5	714.4	714.5
165°	724.0	723.9	723.9	723.9	723.9	723.9	725.0	725.9	726.9	727.9	728.1
167.5°	735.4	735.2	735.2	735.1	735.1	735.0	736.1	737.0	738.0	739.0	739.2
170°	742.0	741.7	741.6	741.4	741.3	741.1	742.2	743.1	744.1	745.1	745.2
172.5°	746.6	746.3	746.2	746.0	745.9	745.8	746.7	747.7	748.7	749.7	749.7
175°	752.2	751.9	751.5	751.3	751.0	750.7	751.7	752.7	753.7	754.6	754.7
177.5°	754.8	754.6	754.3	754.1	753.8	753.7	754.3	755.0	755.7	756.4	756.4
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1



TEST NUMBER: P331259-930

CATALOG NUMBER: SA2XXDIP-C290D725U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	462.2	461.9	461.9	460.6	461.9	461.9	462.2	463.7	464.1	464.4	463.8
5°	428.8	428.2	427.3	428.2	427.3	428.2	428.8	431.4	432.7	433.9	435.0
7.5°	395.7	393.5	393.1	390.9	393.1	393.5	395.7	396.9	399.5	402.4	405.1
10°	371.5	370.1	369.8	366.3	369.8	370.1	371.5	374.7	377.2	380.7	384.5
12.5°	353.2	349.6	350.3	348.3	350.3	349.6	353.2	353.2	356.2	358.4	364.2
15°	321.3	321.3	320.6	317.5	320.6	321.3	321.3	326.4	327.3	330.8	335.7
17.5°	298.5	298.1	296.4	297.3	296.4	298.1	298.5	302.1	302.8	307.4	311.6
20°	284.9	283.7	281.5	281.5	281.5	283.7	284.9	286.9	289.3	292.0	295.6
22.5°	272.0	271.9	269.5	270.3	269.5	271.9	272.0	273.9	276.1	279.2	282.1
25°	256.9	255.4	254.3	254.9	254.3	255.4	256.9	257.1	259.7	261.7	263.6
27.5°	242.6	241.7	241.7	240.2	241.7	241.7	242.6	243.0	244.5	245.7	247.4
30°	234.3	232.4	232.8	231.9	232.8	232.4	234.3	234.5	235.2	235.9	238.0
32.5°	224.8	224.1	223.8	223.0	223.8	224.1	224.8	225.1	226.7	227.4	228.9
35°	211.9	212.1	211.2	211.5	211.2	212.1	211.9	212.2	212.5	213.2	214.7
37.5°	200.6	201.1	200.7	200.8	200.7	201.1	200.6	200.7	201.0	201.1	201.5
40°	193.1	193.1	193.1	193.7	193.1	193.1	193.1	192.7	192.8	192.7	192.7
42.5°	186.1	185.7	185.5	185.4	185.5	185.7	186.1	184.7	185.4	184.7	184.5
45°	173.9	174.5	174.6	173.7	174.6	174.5	173.9	173.6	173.0	172.8	172.6
47.5°	162.9	163.0	162.9	163.7	162.9	163.0	162.9	162.4	161.6	161.3	160.4
50°	155.2	154.8	155.2	154.8	155.2	154.8	155.2	154.3	153.7	152.8	152.1
52.5°	147.1	147.2	146.9	146.8	146.9	147.2	147.1	145.9	145.6	145.2	144.1
55°	134.3	134.6	134.4	134.4	134.4	134.6	134.3	133.5	133.4	132.2	131.1
57.5°	121.1	121.4	121.6	120.8	121.6	121.4	121.1	120.9	120.8	119.6	118.5
60°	111.9	112.8	112.6	112.3	112.6	112.8	111.9	112.0	111.5	110.7	110.0
62.5°	103.4	103.8	103.7	103.6	103.7	103.8	103.4	102.6	102.3	101.6	100.9
65°	90.4	90.7	90.2	90.7	90.2	90.7	90.4	89.8	88.5	88.1	87.4
67.5°	76.3	76.5	76.9	77.1	76.9	76.5	76.3	76.6	75.7	75.0	74.8
70°	67.6	67.4	68.0	68.6	68.0	67.4	67.6	67.3	66.7	66.1	65.4
72.5°	58.4	58.8	58.6	59.0	58.6	58.8	58.4	58.5	58.0	57.2	56.5
75°	45.0	45.6	45.4	45.9	45.4	45.6	45.0	45.4	45.0	44.3	43.5
77.5°	32.5	32.6	32.5	32.9	32.5	32.6	32.5	32.9	32.4	32.7	31.8
80°	24.8	24.5	24.1	24.8	24.1	24.5	24.8	24.8	24.3	24.8	24.3
82.5°	17.3	17.4	17.1	17.1	17.1	17.4	17.3	17.7	17.4	17.7	17.1
85°	8.0	7.7	7.4	7.4	7.4	7.7	8.0	8.0	8.5	8.2	8.2
87.5°	5.7	5.6	5.6	5.5	5.6	5.6	5.7	5.7	5.7	6.0	6.1
90°	21.3	21.4	21.5	21.7	21.5	21.4	21.3	21.1	21.2	21.4	21.8
92.5°	20.5	20.6	20.6	20.6	20.6	20.6	20.5	20.5	20.5	20.5	20.4
95°	40.4	40.1	39.8	39.5	39.8	40.1	40.4	40.7	40.8	40.8	40.8
97.5°	68.6	68.5	68.5	68.4	68.5	68.5	68.6	68.6	68.6	68.6	68.6
100°	87.7	87.6	87.5	87.3	87.5	87.6	87.7	87.9	88.0	88.0	88.0
102.5°	109.2	109.0	108.8	108.7	108.8	109.0	109.2	109.3	109.3	109.2	109.1
105°	141.5	141.5	141.5	141.5	141.5	141.5	141.5	141.5	141.4	141.0	140.8
107.5°	174.3	173.7	173.0	172.4	173.0	173.7	174.3	175.0	175.2	175.0	175.0
110°	197.5	197.1	196.7	196.2	196.7	197.1	197.5	198.0	198.2	198.2	198.2



TEST NUMBER: P331259-930

CATALOG NUMBER: SA2XXDIP-C290D725U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	220.1	219.8	219.6	219.2	219.6	219.8	220.1	220.5	220.8	221.1	221.4
115°	256.2	255.8	255.4	254.9	255.4	255.8	256.2	256.6	256.9	257.1	257.1
117.5°	290.2	289.8	289.3	288.9	289.3	289.8	290.2	290.7	291.0	291.4	291.7
120°	314.1	313.7	313.3	312.9	313.3	313.7	314.1	314.6	314.8	314.8	314.8
122.5°	337.3	337.0	336.6	336.4	336.6	337.0	337.3	337.6	337.9	338.3	338.6
125°	372.6	372.4	372.3	372.2	372.3	372.4	372.6	372.8	373.0	373.4	373.9
127.5°	406.2	405.7	405.3	404.8	405.3	405.7	406.2	406.6	407.1	407.6	408.1
130°	429.9	429.4	428.8	428.3	428.8	429.4	429.9	430.5	431.0	431.2	431.5
132.5°	452.0	451.6	451.1	450.7	451.1	451.6	452.0	452.5	453.1	453.6	454.3
135°	486.9	486.5	486.0	485.6	486.0	486.5	486.9	487.3	487.5	487.7	487.9
137.5°	518.9	518.4	517.8	517.2	517.8	518.4	518.9	519.5	519.8	519.9	520.1
140°	540.9	540.3	539.7	539.2	539.7	540.3	540.9	541.4	541.7	541.7	541.7
142.5°	560.7	560.1	559.6	559.1	559.6	560.1	560.7	561.3	561.5	561.4	561.3
145°	590.5	590.0	589.4	588.8	589.4	590.0	590.5	591.1	591.3	591.2	591.0
147.5°	617.1	616.5	616.0	615.5	616.0	616.5	617.1	617.7	617.8	617.4	617.1
150°	634.1	633.7	633.2	632.8	633.2	633.7	634.1	634.5	634.5	634.1	633.7
152.5°	650.8	650.2	649.6	649.1	649.6	650.2	650.8	651.3	651.3	650.8	650.2
155°	672.3	671.9	671.5	671.1	671.5	671.9	672.3	672.8	672.6	671.9	671.2
157.5°	691.9	691.3	690.6	689.9	690.6	691.3	691.9	692.6	692.5	691.5	690.6
160°	703.4	702.8	702.2	701.6	702.2	702.8	703.4	703.9	703.8	703.0	702.1
162.5°	713.9	713.2	712.5	711.8	712.5	713.2	713.9	714.5	714.4	713.5	712.5
165°	727.3	726.6	725.9	725.2	725.9	726.6	727.3	728.1	727.9	726.9	725.9
167.5°	738.4	737.7	736.9	736.2	736.9	737.7	738.4	739.2	739.0	738.0	737.0
170°	744.4	743.5	742.7	741.8	742.7	743.5	744.4	745.2	745.1	744.1	743.1
172.5°	748.9	748.0	747.2	746.4	747.2	748.0	748.9	749.7	749.7	748.7	747.7
175°	753.9	753.0	752.2	751.4	752.2	753.0	753.9	754.7	754.6	753.7	752.7
177.5°	755.7	755.0	754.3	753.7	754.3	755.0	755.7	756.4	756.4	755.7	755.0
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1



TEST NUMBER: P331259-930

CATALOG NUMBER: SA2XXDIP-C290D725U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	463.1	464.7	467.2	469.9	471.6	474.7	475.6	477.0	478.3	481.4	484.7
5°	436.3	439.0	445.1	448.4	453.0	458.4	461.9	465.6	469.7	476.7	483.2
7.5°	407.6	412.0	419.6	425.8	432.4	440.1	445.6	453.0	459.1	469.0	478.5
10°	388.6	394.7	401.5	409.0	418.2	426.3	434.1	443.4	450.8	462.7	473.8
12.5°	371.4	372.3	382.1	390.3	402.9	413.0	422.0	433.9	441.2	455.3	466.9
15°	341.4	346.9	355.8	362.2	377.2	390.0	402.7	415.1	423.4	440.8	456.2
17.5°	316.0	321.1	330.3	340.9	351.6	364.4	380.7	393.8	405.1	425.0	443.2
20°	300.0	306.3	315.6	326.5	336.0	349.8	363.9	379.0	391.2	413.6	434.9
22.5°	286.4	291.4	298.9	309.7	319.9	332.6	348.1	364.4	377.2	401.5	423.0
25°	267.3	271.3	276.1	285.0	296.7	310.6	322.6	340.6	359.3	381.9	408.0
27.5°	250.0	252.9	257.1	265.0	274.0	287.0	300.4	317.4	336.2	360.8	388.3
30°	239.5	241.3	245.6	252.1	261.0	271.2	284.7	300.9	320.2	345.0	372.4
32.5°	230.3	232.0	234.8	240.9	248.7	257.4	269.5	285.8	304.2	328.6	359.0
35°	216.5	217.8	220.2	225.2	229.5	238.0	248.2	263.0	280.2	303.5	335.0
37.5°	202.8	204.6	206.0	208.1	213.6	219.2	228.0	240.6	257.5	281.0	311.0
40°	193.7	195.2	197.5	198.4	202.8	207.8	215.0	226.5	243.5	265.1	294.3
42.5°	184.5	186.1	187.4	188.4	192.2	196.7	203.2	213.0	228.1	249.0	278.0
45°	172.0	172.3	173.6	175.6	177.4	180.6	185.2	193.7	205.4	225.0	251.4
47.5°	159.4	159.6	159.8	160.7	162.7	165.6	168.7	175.6	186.1	201.7	227.3
50°	150.9	150.6	150.9	151.6	153.0	155.4	158.9	163.9	172.4	187.0	210.6
52.5°	142.8	142.8	142.5	142.8	143.8	145.4	148.0	152.2	159.8	173.3	194.0
55°	130.4	129.5	129.6	128.9	130.6	130.9	132.8	136.3	143.0	152.2	171.7
57.5°	117.2	116.4	115.6	115.4	115.2	116.2	117.6	120.4	125.6	133.7	149.4
60°	108.7	107.8	106.6	106.3	106.3	106.9	107.6	109.7	114.5	121.6	134.6
62.5°	100.1	99.1	98.4	97.4	97.1	97.7	98.4	99.9	103.4	110.1	121.3
65°	86.8	85.5	84.6	84.5	84.1	83.6	83.9	85.4	88.1	93.5	102.4
67.5°	73.5	72.3	72.2	71.0	70.5	70.6	70.5	71.7	73.5	78.1	84.7
70°	64.8	63.9	63.5	62.6	62.2	61.9	61.5	62.6	64.2	68.2	73.9
72.5°	55.9	55.1	54.4	53.6	53.6	53.2	53.2	53.9	55.2	58.8	63.3
75°	43.1	43.4	42.4	41.5	41.3	40.9	40.9	41.5	42.1	44.8	48.3
77.5°	31.3	31.1	30.4	30.1	29.9	29.5	29.9	30.2	30.6	32.4	35.0
80°	23.9	23.9	23.0	23.0	22.7	22.3	22.7	22.4	23.2	25.0	26.8
82.5°	17.0	16.8	16.7	16.5	16.4	16.0	16.2	16.6	17.0	18.2	19.3
85°	8.3	8.3	8.2	8.0	8.2	8.0	8.2	8.3	8.5	9.0	10.0
87.5°	6.2	6.4	6.0	5.5	4.8	4.3	4.0	3.8	3.8	3.6	3.4
90°	22.0	22.3	19.2	16.1	13.0	9.9	7.4	5.7	4.1	2.4	0.7
92.5°	20.3	20.3	19.6	18.8	18.0	17.3	16.3	15.1	13.9	12.6	11.3
95°	40.8	40.8	40.5	40.2	39.9	39.6	38.8	37.4	36.0	34.6	33.1
97.5°	68.6	68.6	68.0	67.5	66.9	66.4	65.6	64.2	63.0	61.8	60.6
100°	88.0	88.0	87.5	87.1	86.7	86.3	85.4	84.3	83.2	82.1	81.0
102.5°	108.9	108.8	108.3	107.8	107.2	106.7	106.0	105.1	104.2	103.2	102.3
105°	140.5	140.2	139.9	139.7	139.3	139.1	138.7	138.3	137.9	137.5	137.1
107.5°	174.9	174.7	174.7	174.7	174.7	174.7	174.4	173.8	173.2	172.6	171.9
110°	198.2	198.2	198.2	198.2	198.2	198.2	197.8	196.9	196.1	195.2	194.4



TEST NUMBER: P331259-930

CATALOG NUMBER: SA2XXDIP-C290D725U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	221.8	222.2	222.3	222.4	222.5	222.6	222.3	221.4	220.5	219.7	218.8
115°	257.3	257.5	257.7	258.0	258.3	258.6	258.3	257.5	256.6	255.8	254.9
117.5°	292.0	292.4	293.2	294.0	294.7	295.5	295.4	294.2	293.1	292.0	290.8
120°	314.8	314.8	315.9	317.1	318.2	319.4	319.4	318.2	317.1	315.9	314.8
122.5°	338.9	339.2	340.1	340.9	341.7	342.4	342.2	340.8	339.5	338.1	336.7
125°	374.3	374.7	375.1	375.5	376.0	376.4	376.0	374.7	373.4	372.2	370.9
127.5°	408.6	409.1	409.6	410.2	410.7	411.2	410.6	409.0	407.4	405.8	404.1
130°	431.8	432.1	432.4	432.6	432.9	433.2	432.4	430.6	428.8	426.9	425.1
132.5°	454.9	455.5	455.4	455.4	455.3	455.3	454.5	453.0	451.5	450.0	448.5
135°	488.0	488.1	487.9	487.5	487.3	487.0	486.1	484.5	483.0	481.4	479.9
137.5°	520.2	520.2	519.9	519.5	519.2	518.8	518.0	516.7	515.4	514.1	512.9
140°	541.7	541.7	541.0	540.3	539.6	538.8	537.9	536.5	535.3	534.0	532.8
142.5°	561.2	561.1	560.6	560.1	559.6	559.1	558.2	557.0	555.7	554.4	553.2
145°	590.9	590.8	589.9	589.1	588.2	587.3	586.4	585.5	584.5	583.4	582.4
147.5°	616.8	616.5	616.0	615.4	614.8	614.2	613.3	612.1	611.0	609.8	608.6
150°	633.2	632.8	632.3	631.7	631.1	630.6	629.8	629.0	628.1	627.3	626.5
152.5°	649.6	649.1	648.4	647.8	647.1	646.4	645.6	644.8	643.9	643.1	642.2
155°	670.5	669.8	669.4	669.0	668.5	668.1	667.6	667.2	666.8	666.3	665.9
157.5°	689.6	688.6	688.4	688.1	687.9	687.6	687.4	687.1	686.8	686.5	686.2
160°	701.2	700.3	700.3	700.1	699.9	699.8	699.6	699.3	699.0	698.7	698.5
162.5°	711.5	710.5	710.5	710.3	710.1	710.0	709.9	709.8	709.8	709.7	709.6
165°	725.0	723.9	723.9	723.9	723.9	723.9	724.0	724.1	724.3	724.5	724.6
167.5°	736.1	735.0	735.1	735.1	735.2	735.2	735.4	735.8	736.2	736.6	737.0
170°	742.2	741.1	741.3	741.4	741.6	741.7	742.0	742.4	742.8	743.3	743.7
172.5°	746.7	745.8	745.9	746.0	746.2	746.3	746.6	747.0	747.5	747.9	748.3
175°	751.7	750.7	751.0	751.3	751.5	751.9	752.2	752.6	753.0	753.5	753.9
177.5°	754.3	753.7	753.8	754.1	754.3	754.6	754.8	755.1	755.5	755.9	756.2
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1



TEST NUMBER: P331259-930

CATALOG NUMBER: SA2XXDIP-C290D725U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	484.5	485.2	487.5	489.9	492.6	493.3	494.5	493.5	493.2	495.9	498.1
5°	485.8	489.1	495.6	501.6	506.5	510.1	513.8	515.3	518.0	521.9	526.8
7.5°	484.2	490.7	500.9	509.6	518.9	525.7	531.0	535.6	541.0	548.4	556.4
10°	482.5	491.1	503.6	514.1	525.6	534.3	541.5	548.6	556.8	567.0	577.5
12.5°	479.2	489.5	505.1	517.6	532.3	540.9	550.6	565.7	574.5	588.7	603.6
15°	472.6	484.1	505.8	521.1	537.9	554.2	572.1	586.5	601.0	609.4	630.2
17.5°	462.9	479.7	503.8	521.7	542.9	568.5	588.7	605.1	621.7	635.3	645.8
20°	455.0	473.4	500.8	522.3	547.5	575.0	598.2	614.9	629.3	640.7	647.1
22.5°	445.2	468.2	494.9	520.1	552.2	579.5	603.8	616.9	629.0	634.5	637.1
25°	429.5	457.3	487.5	518.2	554.5	583.4	605.6	613.6	617.1	611.7	602.8
27.5°	412.6	443.6	478.9	514.7	553.1	580.9	596.8	595.6	589.6	572.2	558.3
30°	400.1	434.1	472.1	511.2	549.7	576.7	586.0	576.7	563.2	543.8	523.9
32.5°	386.9	422.2	464.8	506.1	543.5	567.3	569.2	553.3	532.4	510.3	485.6
35°	366.9	405.0	451.2	494.9	530.3	545.3	536.4	508.2	483.4	453.2	419.5
37.5°	344.3	386.5	432.7	478.4	510.5	514.4	492.3	462.7	427.6	392.2	352.5
40°	327.4	372.1	419.7	465.8	494.2	490.1	461.9	429.3	387.7	344.3	307.4
42.5°	312.3	356.9	405.4	450.7	473.4	462.2	429.3	389.3	344.5	303.7	269.9
45°	286.2	332.1	381.7	425.4	438.4	418.2	374.7	330.2	286.2	252.1	225.4
47.5°	260.7	306.1	355.3	393.7	398.3	371.1	323.6	277.9	239.9	212.2	193.4
50°	242.1	287.6	336.3	370.6	369.1	336.3	287.5	243.9	212.2	189.8	177.2
52.5°	225.3	268.4	315.1	346.3	338.4	302.7	256.0	217.4	191.4	173.8	162.4
55°	199.3	239.1	283.6	308.6	294.1	254.5	215.0	183.9	164.6	151.5	142.6
57.5°	173.4	210.8	248.8	264.2	248.3	211.7	178.8	156.2	141.7	132.0	126.2
60°	157.4	190.0	223.9	237.3	218.2	185.6	159.6	139.5	127.8	119.8	114.6
62.5°	141.5	170.6	202.6	209.9	192.4	164.9	141.9	125.1	115.5	108.4	103.5
65°	119.6	143.6	167.8	172.6	156.5	135.2	117.1	106.2	97.6	92.5	88.5
67.5°	98.2	117.3	134.5	138.4	124.3	109.5	96.4	86.8	81.1	76.8	73.5
70°	85.4	100.6	114.6	117.8	106.5	93.4	83.3	75.7	70.5	66.9	63.7
72.5°	71.9	84.5	96.3	98.4	89.2	79.1	70.9	64.9	60.3	58.0	55.0
75°	55.0	62.5	71.5	72.1	66.0	59.8	53.6	49.7	47.2	44.3	42.8
77.5°	38.8	44.6	49.8	50.8	47.2	43.0	39.5	36.4	34.4	33.0	31.6
80°	29.6	34.2	36.5	37.7	35.2	32.2	30.2	28.1	26.8	25.9	25.0
82.5°	21.2	24.1	26.1	27.1	25.7	23.9	21.9	20.7	19.7	19.0	18.7
85°	10.8	12.1	13.4	13.7	13.4	12.6	11.5	11.5	10.9	10.8	10.8
87.5°	4.2	5.1	5.5	6.2	6.4	7.0	7.7	8.2	8.6	8.4	8.2
90°	2.4	4.1	5.7	7.4	9.9	13.0	16.1	19.2	22.3	22.0	21.8
92.5°	12.6	13.9	15.1	16.3	17.3	18.0	18.8	19.6	20.3	20.3	20.4
95°	34.6	36.0	37.4	38.8	39.6	39.9	40.2	40.5	40.8	40.8	40.8
97.5°	61.8	63.0	64.2	65.6	66.4	66.9	67.5	68.0	68.6	68.6	68.6
100°	82.1	83.2	84.3	85.4	86.3	86.7	87.1	87.5	88.0	88.0	88.0
102.5°	103.2	104.2	105.1	106.0	106.7	107.2	107.8	108.3	108.8	108.9	109.1
105°	137.5	137.9	138.3	138.7	139.1	139.3	139.7	139.9	140.2	140.5	140.8
107.5°	172.6	173.2	173.8	174.4	174.7	174.7	174.7	174.7	174.7	174.9	175.0
110°	195.2	196.1	196.9	197.8	198.2	198.2	198.2	198.2	198.2	198.2	198.2



TEST NUMBER: P331259-930

CATALOG NUMBER: SA2XXDIP-C290D725U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	219.7	220.5	221.4	222.3	222.6	222.5	222.4	222.3	222.2	221.8	221.4
115°	255.8	256.6	257.5	258.3	258.6	258.3	258.0	257.7	257.5	257.3	257.1
117.5°	292.0	293.1	294.2	295.4	295.5	294.7	294.0	293.2	292.4	292.0	291.7
120°	315.9	317.1	318.2	319.4	319.4	318.2	317.1	315.9	314.8	314.8	314.8
122.5°	338.1	339.5	340.8	342.2	342.4	341.7	340.9	340.1	339.2	338.9	338.6
125°	372.2	373.4	374.7	376.0	376.4	376.0	375.5	375.1	374.7	374.3	373.9
127.5°	405.8	407.4	409.0	410.6	411.2	410.7	410.2	409.6	409.1	408.6	408.1
130°	426.9	428.8	430.6	432.4	433.2	432.9	432.6	432.4	432.1	431.8	431.5
132.5°	450.0	451.5	453.0	454.5	455.3	455.3	455.4	455.4	455.5	454.9	454.3
135°	481.4	483.0	484.5	486.1	487.0	487.3	487.5	487.9	488.1	488.0	487.9
137.5°	514.1	515.4	516.7	518.0	518.8	519.2	519.5	519.9	520.2	520.2	520.1
140°	534.0	535.3	536.5	537.9	538.8	539.6	540.3	541.0	541.7	541.7	541.7
142.5°	554.4	555.7	557.0	558.2	559.1	559.6	560.1	560.6	561.1	561.2	561.3
145°	583.4	584.5	585.5	586.4	587.3	588.2	589.1	589.9	590.8	590.9	591.0
147.5°	609.8	611.0	612.1	613.3	614.2	614.8	615.4	616.0	616.5	616.8	617.1
150°	627.3	628.1	629.0	629.8	630.6	631.1	631.7	632.3	632.8	633.2	633.7
152.5°	643.1	643.9	644.8	645.6	646.4	647.1	647.8	648.4	649.1	649.6	650.2
155°	666.3	666.8	667.2	667.6	668.1	668.5	669.0	669.4	669.8	670.5	671.2
157.5°	686.5	686.8	687.1	687.4	687.6	687.9	688.1	688.4	688.6	689.6	690.6
160°	698.7	699.0	699.3	699.6	699.8	699.9	700.1	700.3	700.3	701.2	702.1
162.5°	709.7	709.8	709.8	709.9	710.0	710.1	710.3	710.5	710.5	711.5	712.5
165°	724.5	724.3	724.1	724.0	723.9	723.9	723.9	723.9	723.9	725.0	725.9
167.5°	736.6	736.2	735.8	735.4	735.2	735.2	735.1	735.1	735.0	736.1	737.0
170°	743.3	742.8	742.4	742.0	741.7	741.6	741.4	741.3	741.1	742.2	743.1
172.5°	747.9	747.5	747.0	746.6	746.3	746.2	746.0	745.9	745.8	746.7	747.7
175°	753.5	753.0	752.6	752.2	751.9	751.5	751.3	751.0	750.7	751.7	752.7
177.5°	755.9	755.5	755.1	754.8	754.6	754.3	754.1	753.8	753.7	754.3	755.0
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1	755.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	499.9	501.9	501.9	502.2	504.6	504.3	504.1
5°	531.9	535.1	535.4	538.7	541.0	540.2	538.2
7.5°	562.1	568.0	572.5	574.9	577.9	579.7	578.9
10°	586.2	594.7	599.9	603.4	607.6	610.8	609.7
12.5°	608.0	618.1	625.3	631.3	631.8	635.9	633.1
15°	642.0	652.6	653.8	658.2	661.8	661.4	661.5
17.5°	653.1	656.6	657.3	657.4	657.5	656.2	653.3
20°	649.1	647.8	644.7	642.3	638.1	637.5	633.8
22.5°	630.1	626.1	618.2	612.9	606.3	604.6	603.6
25°	592.9	583.8	571.2	559.1	555.8	549.3	551.1
27.5°	541.6	527.5	513.8	504.1	495.2	485.5	488.3
30°	505.6	489.7	470.4	455.6	446.1	436.9	435.2
32.5°	462.7	439.3	417.8	404.8	390.3	384.4	378.1
35°	388.6	365.7	344.5	326.1	315.6	307.4	300.0
37.5°	322.0	295.7	278.5	263.7	256.0	251.4	252.6
40°	280.6	257.6	245.0	233.7	226.7	223.4	224.1
42.5°	247.1	229.9	219.6	211.8	206.8	205.0	204.6
45°	209.1	199.5	190.9	186.5	184.1	182.1	180.8
47.5°	183.2	175.3	170.5	167.9	165.8	163.7	163.6
50°	167.6	162.4	159.1	156.3	154.7	153.2	154.5
52.5°	155.7	151.0	147.7	145.2	144.6	143.2	143.2
55°	138.2	134.4	132.1	129.8	128.7	128.0	127.0
57.5°	122.1	118.6	116.4	115.0	112.9	112.2	111.9
60°	110.7	107.9	105.7	103.9	103.0	101.5	101.5
62.5°	100.2	97.4	95.4	94.0	92.5	91.9	92.0
65°	85.0	82.8	80.7	79.2	78.9	77.8	78.2
67.5°	71.0	69.5	67.3	66.5	65.9	65.3	64.8
70°	61.6	60.2	59.1	58.0	57.4	57.4	57.4
72.5°	53.8	52.0	51.4	50.0	50.3	49.7	49.1
75°	41.7	40.5	40.0	39.5	38.6	38.6	38.6
77.5°	30.7	30.3	29.7	29.1	28.9	28.7	28.8
80°	23.7	23.5	23.2	23.2	22.7	22.6	22.3
82.5°	18.3	17.8	17.5	17.4	17.3	17.3	17.2
85°	10.4	10.0	10.0	10.2	9.8	9.8	10.0
87.5°	8.3	8.2	8.1	8.1	8.3	8.2	8.2
90°	21.4	21.2	21.1	21.3	21.4	21.5	21.7
92.5°	20.5	20.5	20.5	20.5	20.6	20.6	20.6
95°	40.8	40.8	40.7	40.4	40.1	39.8	39.5
97.5°	68.6	68.6	68.6	68.6	68.5	68.5	68.4
100°	88.0	88.0	87.9	87.7	87.6	87.5	87.3
102.5°	109.2	109.3	109.3	109.2	109.0	108.8	108.7
105°	141.0	141.4	141.5	141.5	141.5	141.5	141.5
107.5°	175.0	175.2	175.0	174.3	173.7	173.0	172.4
110°	198.2	198.2	198.0	197.5	197.1	196.7	196.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	221.1	220.8	220.5	220.1	219.8	219.6	219.2
115°	257.1	256.9	256.6	256.2	255.8	255.4	254.9
117.5°	291.4	291.0	290.7	290.2	289.8	289.3	288.9
120°	314.8	314.8	314.6	314.1	313.7	313.3	312.9
122.5°	338.3	337.9	337.6	337.3	337.0	336.6	336.4
125°	373.4	373.0	372.8	372.6	372.4	372.3	372.2
127.5°	407.6	407.1	406.6	406.2	405.7	405.3	404.8
130°	431.2	431.0	430.5	429.9	429.4	428.8	428.3
132.5°	453.6	453.1	452.5	452.0	451.6	451.1	450.7
135°	487.7	487.5	487.3	486.9	486.5	486.0	485.6
137.5°	519.9	519.8	519.5	518.9	518.4	517.8	517.2
140°	541.7	541.7	541.4	540.9	540.3	539.7	539.2
142.5°	561.4	561.5	561.3	560.7	560.1	559.6	559.1
145°	591.2	591.3	591.1	590.5	590.0	589.4	588.8
147.5°	617.4	617.8	617.7	617.1	616.5	616.0	615.5
150°	634.1	634.5	634.5	634.1	633.7	633.2	632.8
152.5°	650.8	651.3	651.3	650.8	650.2	649.6	649.1
155°	671.9	672.6	672.8	672.3	671.9	671.5	671.1
157.5°	691.5	692.5	692.6	691.9	691.3	690.6	689.9
160°	703.0	703.8	703.9	703.4	702.8	702.2	701.6
162.5°	713.5	714.4	714.5	713.9	713.2	712.5	711.8
165°	726.9	727.9	728.1	727.3	726.6	725.9	725.2
167.5°	738.0	739.0	739.2	738.4	737.7	736.9	736.2
170°	744.1	745.1	745.2	744.4	743.5	742.7	741.8
172.5°	748.7	749.7	749.7	748.9	748.0	747.2	746.4
175°	753.7	754.6	754.7	753.9	753.0	752.2	751.4
177.5°	755.7	756.4	756.4	755.7	755.0	754.3	753.7
180°	755.1	755.1	755.1	755.1	755.1	755.1	755.1

(END OF REPORT)