

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: P331635-927

Luminaire Tested: **SA2XXRDIP-C290D925U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331635-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C290D925U927-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

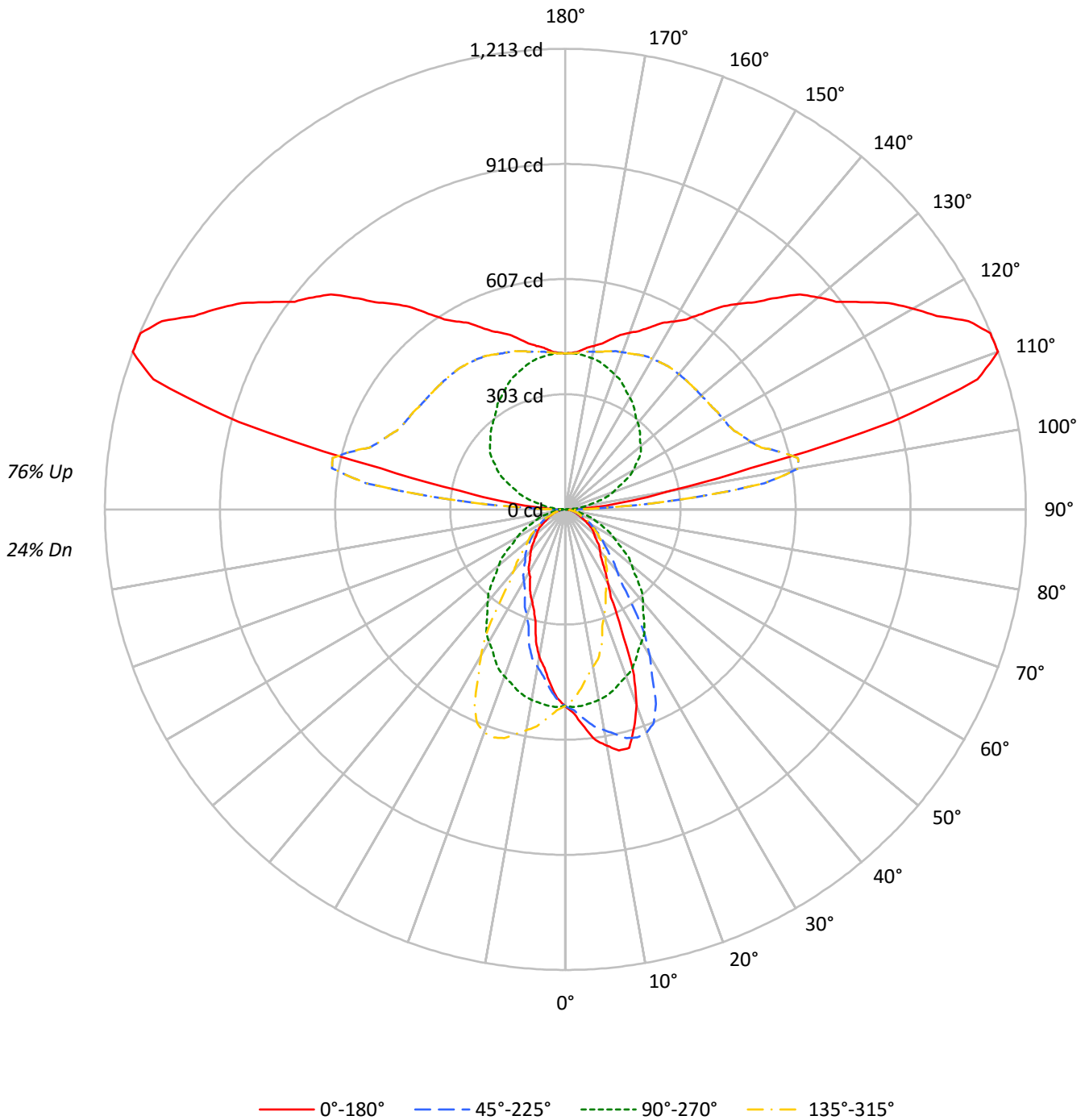
Lumens per Lamp: N/A
Luminaire Lumens: 3759.6 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	85	81	82	79	76	73	61	59	57	44	43	42	29	28	28	21
2	84	77	72	67	75	69	64	60	54	50	48	39	37	36	26	25	24	18
3	77	68	62	56	68	61	55	51	48	44	41	35	33	30	23	22	21	16
4	71	61	53	48	63	54	48	43	42	38	35	31	29	26	21	20	18	14
5	65	54	47	41	58	49	42	37	38	34	30	28	25	23	19	18	16	12
6	60	49	41	36	53	44	37	32	34	30	26	26	23	20	18	16	14	11
7	55	44	36	31	49	39	33	29	31	27	23	23	20	18	16	14	13	10
8	51	40	33	28	46	36	30	25	28	24	21	21	18	16	15	13	12	9
9	48	36	29	24	42	33	27	22	26	22	19	20	17	15	14	12	11	8
10	44	33	26	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8360	8360	8360	8360
5°	9339	8413	7460	8413
10°	10362	8355	6466	8355
15°	10870	8232	5095	8232
20°	9424	8052	4409	8052
25°	6180	7803	3935	7803
30°	4161	7500	3563	7500
35°	3370	7121	3213	7121
40°	2995	6709	2974	6709
45°	2710	6224	2653	6224
50°	2467	5745	2459	5745
55°	2320	5210	2291	5210
60°	1941	4724	1918	4724
65°	1639	4290	1857	4290
70°	1511	3829	1751	3829
75°	1416	3337	1616	3337
80°	1302	2743	1432	2743
85°	1204	2167	1260	2167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	1.3
10°-20°	136.8	3.6
20°-30°	176.3	4.7
30°-40°	167.5	4.5
40°-50°	143.5	3.8
50°-60°	109.3	2.9
60°-70°	69.1	1.8
70°-80°	34.5	0.9
80°-90°	12.7	0.3
90°-100°	164.4	4.4
100°-110°	557.8	14.8
110°-120°	592.6	15.8
120°-130°	487.8	13.0
130°-140°	391.8	10.4
140°-150°	296.0	7.9
150°-160°	208.1	5.5
160°-170°	122.5	3.3
170°-180°	39.9	1.1
0°-30°	362.2	9.6
0°-40°	529.7	14.1
0°-60°	782.5	20.8
0°-90°	898.7	23.9
90°-120°	1314.8	35.0
90°-150°	2490.5	66.2
90°-180°	2861.0	76.1
0°-180°	3759.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	518	518	518	518	518	
5°	576	519	460	519	576	57
15°	650	492	305	492	650	175
25°	347	438	221	438	347	165
35°	171	361	163	361	171	109
45°	119	273	116	273	119	92
55°	82	185	81	185	82	72
65°	43	112	49	112	43	44
75°	23	54	26	54	23	24
85°	6	12	7	12	6	8
90°	26	1	26	1	26	14
95°	90	28	90	28	90	117
105°	891	96	891	96	891	862
115°	1172	170	1172	170	1172	1148
125°	951	237	951	237	951	859
135°	788	278	788	278	788	612
145°	629	318	629	318	629	400
155°	529	361	529	361	529	247
165°	464	394	464	394	464	133
175°	418	410	418	410	418	41
180°	411	411	411	411	411	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	538.9	539.3	539.8	538.8	538.8	537.9	536.0	534.6	530.5	530.0	530.0
5°	576.2	575.8	576.6	574.2	571.0	570.2	566.8	562.3	557.6	552.5	551.4
7.5°	613.2	612.7	611.2	610.9	608.4	602.9	597.5	591.6	583.8	576.2	572.4
10°	632.0	637.9	634.3	628.0	629.2	620.8	616.3	608.6	602.1	590.7	588.3
12.5°	650.4	652.8	651.6	648.0	646.4	640.6	634.5	627.7	615.8	605.6	596.8
15°	650.3	653.7	654.7	653.6	654.4	654.1	650.9	645.3	634.9	623.7	613.9
17.5°	602.3	604.7	610.6	614.6	619.6	630.3	635.6	637.5	636.0	629.6	622.8
20°	548.5	544.5	561.1	569.5	576.7	594.7	610.2	616.2	625.7	625.5	623.7
22.5°	472.1	473.1	488.8	498.8	519.8	537.9	555.5	577.8	596.3	608.5	615.6
25°	346.9	353.8	369.4	383.1	406.5	440.0	470.4	505.6	538.9	565.2	590.3
27.5°	260.5	261.1	273.5	286.1	300.0	327.4	365.8	407.8	455.3	494.5	539.5
30°	223.2	222.0	227.3	235.0	246.9	268.2	296.9	338.3	385.6	444.7	497.2
32.5°	196.6	196.7	200.7	206.4	216.2	230.5	250.3	283.9	328.6	386.7	448.2
35°	171.0	170.8	173.6	177.8	181.9	191.1	204.6	222.2	253.0	307.1	370.1
37.5°	152.5	153.3	154.7	157.3	161.8	167.0	175.1	187.0	208.8	240.9	293.8
40°	142.1	142.5	144.5	146.6	149.3	153.3	159.9	169.5	185.5	211.0	249.8
42.5°	132.7	133.0	134.4	136.4	138.6	142.5	148.1	156.3	169.3	189.2	221.1
45°	118.7	118.7	120.0	120.9	123.3	126.8	131.3	138.2	147.2	161.9	183.2
47.5°	105.8	105.8	106.6	108.1	109.6	112.4	116.8	122.5	129.0	140.4	158.5
50°	98.2	98.5	98.9	100.2	101.2	103.6	107.1	111.9	118.7	127.6	142.7
52.5°	92.2	92.1	92.8	93.3	94.0	95.7	98.3	102.6	108.7	116.4	128.9
55°	82.4	81.7	82.8	83.7	84.2	84.9	86.3	89.0	94.3	100.8	110.1
57.5°	70.2	69.9	70.7	71.5	73.2	75.1	76.4	78.0	80.7	85.4	94.7
60°	60.1	60.1	61.7	62.3	64.2	66.8	69.3	70.7	73.4	76.4	83.3
62.5°	51.2	51.3	52.0	52.6	53.7	56.8	60.4	63.5	66.1	69.0	73.5
65°	42.9	43.2	43.2	43.6	44.3	45.0	46.4	49.0	53.5	57.6	61.0
67.5°	36.4	36.4	36.6	36.9	37.1	37.9	38.5	39.6	40.6	44.5	48.8
70°	32.0	32.6	32.4	32.7	33.0	33.3	34.0	34.5	36.2	37.1	39.6
72.5°	28.0	28.4	28.4	28.6	29.1	29.2	29.7	30.3	31.3	32.0	33.4
75°	22.7	22.5	22.7	23.1	23.2	23.4	23.4	24.1	24.6	25.3	26.3
77.5°	17.5	17.7	17.7	17.7	17.7	18.1	18.0	18.3	18.9	19.3	19.6
80°	14.0	14.2	14.0	14.2	14.4	14.6	14.4	14.6	15.1	15.4	15.4
82.5°	10.9	10.9	11.0	11.0	11.1	11.1	11.4	11.4	11.8	11.7	11.9
85°	6.5	6.3	6.3	6.3	6.5	6.7	6.5	6.5	6.7	6.7	6.7
87.5°	7.5	7.7	7.7	7.7	7.7	7.5	7.2	7.7	7.7	8.0	7.7
90°	26.1	26.1	26.1	26.1	26.1	25.3	23.7	25.3	26.1	26.9	26.1
92.5°	43.8	45.1	44.4	47.0	47.6	52.5	59.2	68.9	86.8	102.7	101.3
95°	90.2	89.4	91.7	98.1	108.3	125.7	158.9	207.2	271.2	309.9	274.3
97.5°	177.4	184.0	195.6	215.1	252.9	309.9	395.5	483.4	555.0	529.1	398.5
100°	283.0	297.3	320.2	354.2	419.9	515.5	623.8	721.8	738.5	624.6	430.1
102.5°	498.1	517.4	546.0	604.0	675.3	776.7	856.0	878.1	806.8	627.7	418.1
105°	891.0	902.1	936.1	985.1	1034.1	1060.3	1050.0	960.6	796.1	585.8	394.5
107.5°	1138.2	1152.9	1159.7	1162.4	1156.2	1117.9	1035.7	901.2	726.7	541.0	382.8
110°	1212.8	1213.6	1206.5	1191.4	1157.5	1092.7	991.4	849.9	683.1	519.4	380.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1211.6	1207.3	1193.8	1168.7	1121.4	1047.1	939.0	803.1	652.8	505.5	380.9
115°	1172.5	1165.4	1144.8	1108.4	1052.3	970.9	867.3	745.5	615.1	490.2	384.2
117.5°	1102.7	1096.8	1075.1	1036.6	979.5	903.0	809.1	702.2	591.4	482.8	389.9
120°	1057.9	1050.0	1027.0	989.8	934.5	862.5	778.8	680.7	578.8	478.3	393.7
122.5°	1011.1	1004.4	984.0	947.5	897.9	832.8	753.4	663.6	568.0	475.8	398.2
125°	951.1	944.8	925.0	895.0	849.1	789.8	720.3	638.8	552.6	471.2	404.8
127.5°	898.7	893.6	876.5	848.3	808.3	753.6	688.0	614.3	538.4	468.5	411.6
130°	868.9	862.5	846.8	819.9	781.2	729.0	666.5	598.5	528.9	467.2	416.7
132.5°	837.9	832.2	817.7	790.8	752.7	703.6	646.3	583.3	521.3	466.6	421.7
135°	788.2	785.1	770.9	744.7	710.7	666.5	614.3	562.1	510.7	465.6	427.7
137.5°	739.6	734.8	722.3	699.9	668.8	630.3	588.8	545.2	503.3	465.5	433.1
140°	706.0	701.3	689.4	668.8	643.6	608.8	572.4	534.5	498.9	464.9	435.6
142.5°	672.5	671.5	661.0	642.3	618.3	589.1	557.9	525.6	494.5	464.9	437.5
145°	629.3	626.9	619.1	605.6	586.6	563.7	539.2	513.1	488.6	463.3	439.6
147.5°	593.1	591.7	586.3	575.6	559.9	543.1	524.0	503.4	482.6	460.5	440.2
150°	571.6	570.8	566.1	556.6	544.7	530.5	513.9	496.5	477.5	458.6	439.6
152.5°	553.3	553.1	549.6	541.4	532.1	519.8	505.6	489.6	473.1	455.4	438.3
155°	528.9	530.5	527.4	521.8	513.1	504.4	492.6	479.9	464.9	449.9	436.4
157.5°	508.2	508.2	506.8	502.2	496.1	489.3	479.3	468.7	457.2	444.2	432.8
160°	495.0	495.0	494.2	490.2	484.7	479.1	470.4	461.7	451.5	440.4	430.9
162.5°	482.3	482.9	482.1	479.4	473.9	469.6	462.2	454.8	446.4	437.2	429.0
165°	464.1	464.9	464.9	461.7	458.6	455.4	449.9	444.3	438.0	430.9	425.3
167.5°	447.3	448.3	448.5	446.7	445.3	442.4	438.6	434.4	429.8	425.3	421.7
170°	437.2	438.8	439.6	437.2	436.4	434.8	431.7	429.3	425.3	422.2	419.9
172.5°	429.0	429.9	430.7	429.6	428.8	427.9	425.3	423.6	421.0	418.4	417.3
175°	418.3	419.9	420.6	419.9	419.9	419.1	418.3	417.5	415.1	414.3	413.5
177.5°	411.8	413.0	413.7	413.7	413.7	413.7	413.0	413.0	411.8	411.1	411.8
180°	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	530.3	529.1	528.1	525.5	524.2	521.3	520.9	520.8	517.1	513.4	512.4
5°	548.5	545.6	541.3	536.2	531.0	525.6	522.0	519.1	511.9	505.1	501.1
7.5°	566.8	560.6	553.2	543.7	535.7	526.8	520.1	514.2	504.0	494.2	487.6
10°	580.5	570.5	560.5	547.4	537.1	527.0	517.7	509.6	498.1	485.1	475.9
12.5°	589.0	577.9	564.3	551.4	538.1	525.3	512.8	502.4	488.9	475.5	464.6
15°	600.5	588.6	572.0	553.7	536.6	519.8	505.5	492.5	474.9	458.8	445.5
17.5°	609.9	593.5	575.8	554.5	534.7	513.5	495.0	478.4	458.8	439.4	423.7
20°	612.9	596.7	576.2	554.9	531.6	506.5	486.6	468.6	447.5	426.4	408.4
22.5°	611.0	598.4	575.6	550.2	526.2	500.1	477.5	456.6	433.2	411.8	390.9
25°	598.3	594.0	572.4	544.7	517.4	487.0	460.8	438.0	411.4	388.3	365.7
27.5°	568.7	578.1	564.7	535.1	504.7	472.1	442.8	416.8	389.1	363.2	340.6
30°	540.2	561.6	555.9	528.5	494.5	462.5	429.5	402.3	372.9	346.2	323.9
32.5°	501.2	536.5	542.2	519.3	484.1	448.9	414.4	387.4	356.6	328.5	306.7
35°	439.0	491.9	516.3	501.7	466.4	428.4	392.8	361.3	330.3	302.7	281.1
37.5°	365.0	437.0	477.5	478.6	446.2	406.7	367.9	336.6	304.9	277.7	254.4
40°	316.9	395.0	447.7	459.4	432.1	389.4	350.1	318.3	287.4	260.7	233.9
42.5°	273.7	351.5	416.3	436.7	414.9	372.6	333.2	299.9	269.8	244.6	217.2
45°	221.3	289.4	360.8	397.1	385.1	345.9	304.3	272.6	244.4	222.6	196.3
47.5°	186.7	234.6	303.8	352.9	352.8	317.0	276.0	245.7	219.5	199.1	177.8
50°	167.0	208.7	267.2	323.0	327.6	297.6	258.7	228.7	204.2	182.8	165.7
52.5°	149.2	183.7	236.2	289.8	303.1	277.0	239.3	211.6	187.8	168.1	153.5
55°	126.1	152.8	192.7	242.7	262.9	244.5	211.0	185.1	165.9	149.3	136.7
57.5°	106.7	126.7	158.8	199.0	222.4	211.0	183.3	162.2	145.8	130.8	120.9
60°	94.5	110.8	138.0	171.7	197.6	189.5	165.9	146.3	132.3	119.3	110.0
62.5°	82.9	97.0	120.3	147.7	171.3	168.0	148.8	132.3	120.0	108.2	100.3
65°	66.8	77.0	95.2	116.6	135.7	137.3	123.4	112.3	101.3	92.0	84.9
67.5°	53.2	59.9	72.6	90.7	105.0	110.1	101.6	93.1	84.4	77.2	71.1
70°	44.8	50.2	59.6	74.1	87.3	92.7	87.8	81.1	73.6	67.7	62.4
72.5°	36.3	41.6	48.5	59.2	70.4	76.3	74.5	69.8	63.7	58.7	53.8
75°	27.3	29.0	33.7	40.9	49.7	54.7	55.9	53.5	48.6	44.8	41.9
77.5°	20.2	21.2	23.4	27.2	33.0	37.5	39.3	39.0	35.6	33.5	30.7
80°	16.2	16.7	17.8	19.4	23.8	28.3	29.5	29.5	27.2	26.3	23.6
82.5°	12.3	12.7	13.4	14.3	16.2	20.2	21.6	21.9	20.4	19.3	17.1
85°	7.1	6.8	7.2	7.8	8.1	9.2	11.3	11.7	11.3	9.9	9.3
87.5°	6.7	5.8	5.0	4.4	4.2	4.0	4.1	4.4	4.2	4.4	4.4
90°	21.3	15.8	11.9	9.5	7.9	6.3	3.2	0.8	3.2	6.3	7.9
92.5°	78.9	53.8	35.9	28.4	23.1	19.6	13.9	9.7	13.9	19.6	23.1
95°	182.6	113.8	77.5	58.5	45.9	38.7	30.8	27.6	30.8	38.7	45.9
97.5°	246.1	150.2	104.5	83.0	68.4	57.8	49.4	45.1	49.4	57.8	68.4
100°	259.4	162.9	121.0	98.9	83.0	70.3	63.2	60.8	63.2	70.3	83.0
102.5°	260.0	174.3	135.5	113.4	97.0	84.3	77.2	75.4	77.2	84.3	97.0
105°	264.0	193.7	156.5	134.4	117.0	105.1	99.7	96.5	99.7	105.1	117.0
107.5°	275.0	213.7	177.6	155.3	138.1	127.1	121.8	119.2	121.8	127.1	138.1
110°	283.8	226.9	192.1	169.2	152.6	142.3	137.6	134.4	137.6	142.3	152.6



TEST NUMBER: P331635-927

CATALOG NUMBER: SA2XXRDIP-C290D925U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	293.3	239.6	206.0	182.4	166.5	156.9	151.5	148.3	151.5	156.9	166.5
115°	307.5	259.4	225.3	204.0	188.1	178.7	174.0	170.0	174.0	178.7	188.1
117.5°	322.7	277.5	246.1	223.9	208.7	200.3	195.6	192.4	195.6	200.3	208.7
120°	332.9	290.2	259.4	237.2	221.3	214.3	209.5	206.4	209.5	214.3	221.3
122.5°	341.7	302.1	273.2	250.5	234.6	226.9	222.1	219.7	222.1	226.9	234.6
125°	355.8	320.2	291.8	269.6	253.8	244.3	239.6	237.2	239.6	244.3	253.8
127.5°	368.9	337.0	309.3	286.5	271.3	260.9	254.3	251.1	254.3	260.9	271.3
130°	377.2	347.1	319.4	297.3	281.5	270.4	262.4	259.4	262.4	270.4	281.5
132.5°	385.3	355.9	329.5	307.4	291.0	279.2	270.7	266.9	270.7	279.2	291.0
135°	396.1	368.4	343.1	321.0	302.8	291.0	281.5	278.3	281.5	291.0	302.8
137.5°	404.3	378.6	353.6	333.0	315.0	302.3	292.9	289.1	292.9	302.3	315.0
140°	408.8	384.2	360.5	340.0	322.6	309.9	300.5	297.3	300.5	309.9	322.6
142.5°	412.6	388.6	365.6	346.3	329.5	316.9	308.0	305.5	308.0	316.9	329.5
145°	417.5	395.3	374.0	356.6	340.8	328.9	321.0	317.8	321.0	328.9	340.8
147.5°	420.2	400.7	380.6	365.1	352.0	341.0	333.5	331.1	333.5	341.0	352.0
150°	421.4	403.2	385.0	370.8	358.9	348.6	342.3	340.0	342.3	348.6	358.9
152.5°	422.0	405.8	389.4	376.5	365.3	356.2	349.9	348.8	349.9	356.2	365.3
155°	422.9	409.6	396.1	384.2	375.6	366.9	362.1	361.3	362.1	366.9	375.6
157.5°	422.9	412.3	400.8	390.9	383.9	376.4	372.6	371.8	372.6	376.4	383.9
160°	422.9	413.5	404.0	395.3	389.0	382.6	379.5	378.7	379.5	382.6	389.0
162.5°	422.3	414.2	405.9	399.1	393.4	388.3	385.2	385.6	385.2	388.3	393.4
165°	420.6	415.1	408.0	403.2	399.3	394.5	392.9	393.7	392.9	394.5	399.3
167.5°	419.5	414.9	409.7	406.7	403.9	400.8	399.4	400.4	399.4	400.8	403.9
170°	418.3	414.3	410.4	408.0	406.4	404.0	403.2	404.8	403.2	404.0	406.4
172.5°	416.4	413.7	411.0	409.2	408.3	405.9	406.4	407.3	406.4	405.9	408.3
175°	414.3	412.7	411.1	410.4	410.4	408.8	409.6	410.4	409.6	408.8	410.4
177.5°	413.0	411.8	411.1	411.1	411.1	409.9	410.5	411.8	410.5	409.9	411.1
180°	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1



TEST NUMBER: P331635-927

CATALOG NUMBER: SA2XXRDIP-C290D925U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	510.6	509.5	507.6	504.8	503.0	500.0	498.0	499.2	499.5	499.2	498.9
5°	496.9	493.1	487.8	482.8	478.1	473.1	470.2	469.0	466.4	465.0	464.2
7.5°	480.2	473.7	466.4	457.6	450.1	442.3	438.3	436.3	431.2	428.4	426.0
10°	467.9	457.6	450.2	438.7	431.7	421.4	414.4	414.6	407.6	403.6	400.8
12.5°	454.2	442.9	430.6	420.3	410.5	402.3	393.8	390.4	382.9	379.1	371.4
15°	431.5	418.4	405.4	391.4	381.5	368.7	356.5	341.5	329.5	319.0	316.2
17.5°	406.8	390.5	377.5	361.0	344.0	322.6	308.4	299.7	292.5	286.9	282.8
20°	389.8	373.2	359.3	334.5	311.6	297.1	286.7	280.0	272.4	266.5	263.2
22.5°	371.9	354.7	335.7	308.0	290.2	278.5	269.3	261.6	256.4	251.8	248.8
25°	346.6	327.6	296.5	277.5	263.1	250.8	244.4	239.7	234.3	228.0	225.1
27.5°	319.8	289.8	267.4	253.2	239.5	231.6	225.7	218.7	213.9	211.0	208.0
30°	299.8	269.7	252.3	236.8	227.1	218.2	211.4	207.5	202.8	198.0	196.0
32.5°	277.5	253.5	236.7	223.9	214.0	206.4	201.1	194.6	191.3	188.3	184.2
35°	249.8	231.6	216.3	205.9	196.5	190.4	184.1	180.3	174.2	171.7	170.1
37.5°	226.3	210.6	199.2	188.1	180.7	174.0	170.1	164.1	161.4	157.9	154.5
40°	213.0	197.6	186.6	177.6	169.3	164.3	159.5	154.6	150.6	149.0	144.9
42.5°	199.6	187.0	175.9	166.1	160.6	155.2	149.1	145.5	141.4	138.8	136.3
45°	180.9	169.7	160.3	152.3	146.1	140.5	136.6	130.6	128.3	123.1	120.9
47.5°	164.5	154.1	145.1	137.4	131.5	127.9	122.1	117.4	113.7	110.4	107.7
50°	152.8	144.1	135.5	128.7	123.3	118.0	112.1	109.8	104.0	102.3	100.8
52.5°	142.1	133.9	126.0	119.3	113.9	108.8	103.6	100.5	96.6	95.1	93.9
55°	127.2	119.3	111.8	105.8	100.4	95.2	92.0	88.2	86.3	85.1	83.7
57.5°	112.3	105.1	99.3	93.3	87.9	83.7	80.0	77.7	75.9	74.2	72.5
60°	102.7	95.9	90.7	85.1	79.5	76.1	73.3	70.5	68.4	65.8	65.1
62.5°	92.7	86.7	81.9	76.4	71.6	68.5	65.8	63.2	60.6	57.0	55.9
65°	78.8	74.1	69.1	64.6	60.3	57.2	53.2	50.4	49.3	49.0	48.8
67.5°	66.3	61.9	57.5	52.9	49.0	46.2	44.1	43.7	42.9	42.8	42.2
70°	57.9	53.8	49.5	45.2	41.4	40.9	40.2	39.4	38.5	38.2	37.8
72.5°	50.5	46.2	41.8	38.4	36.8	36.1	35.4	34.6	34.1	33.7	33.5
75°	38.7	34.7	31.8	30.6	29.7	29.2	28.0	27.6	27.2	26.6	26.5
77.5°	27.9	25.6	24.3	23.5	22.6	22.0	21.4	20.8	20.4	20.4	20.0
80°	21.2	20.1	19.3	18.1	17.8	17.1	17.0	16.4	16.6	16.0	16.0
82.5°	16.5	15.1	14.3	13.9	13.5	12.9	12.8	12.5	12.5	12.1	12.1
85°	8.5	8.1	7.8	7.4	7.4	6.8	7.1	6.8	6.8	6.5	6.3
87.5°	4.6	5.0	5.5	6.6	7.5	7.5	7.4	7.1	6.7	7.1	7.1
90°	9.5	11.9	15.8	21.3	26.1	26.9	26.1	25.3	23.7	25.3	26.1
92.5°	28.4	35.9	53.8	78.9	101.3	102.7	86.8	68.9	59.2	52.5	47.6
95°	58.5	77.5	113.8	182.6	274.3	309.9	271.2	207.2	158.9	125.7	108.3
97.5°	83.0	104.5	150.2	246.1	398.5	529.1	555.0	483.4	395.5	309.9	252.9
100°	98.9	121.0	162.9	259.4	430.1	624.6	738.5	721.8	623.8	515.5	419.9
102.5°	113.4	135.5	174.3	260.0	418.1	627.7	806.8	878.1	856.0	776.7	675.3
105°	134.4	156.5	193.7	264.0	394.5	585.8	796.1	960.6	1050.0	1060.3	1034.1
107.5°	155.3	177.6	213.7	275.0	382.8	541.0	726.7	901.2	1035.7	1117.9	1156.2
110°	169.2	192.1	226.9	283.8	380.3	519.4	683.1	849.9	991.4	1092.7	1157.5



TEST NUMBER: P331635-927

CATALOG NUMBER: SA2XXRDIP-C290D925U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	182.4	206.0	239.6	293.3	380.9	505.5	652.8	803.1	939.0	1047.1	1121.4
115°	204.0	225.3	259.4	307.5	384.2	490.2	615.1	745.5	867.3	970.9	1052.3
117.5°	223.9	246.1	277.5	322.7	389.9	482.8	591.4	702.2	809.1	903.0	979.5
120°	237.2	259.4	290.2	332.9	393.7	478.3	578.8	680.7	778.8	862.5	934.5
122.5°	250.5	273.2	302.1	341.7	398.2	475.8	568.0	663.6	753.4	832.8	897.9
125°	269.6	291.8	320.2	355.8	404.8	471.2	552.6	638.8	720.3	789.8	849.1
127.5°	286.5	309.3	337.0	368.9	411.6	468.5	538.4	614.3	688.0	753.6	808.3
130°	297.3	319.4	347.1	377.2	416.7	467.2	528.9	598.5	666.5	729.0	781.2
132.5°	307.4	329.5	355.9	385.3	421.7	466.6	521.3	583.3	646.3	703.6	752.7
135°	321.0	343.1	368.4	396.1	427.7	465.6	510.7	562.1	614.3	666.5	710.7
137.5°	333.0	353.6	378.6	404.3	433.1	465.5	503.3	545.2	588.8	630.3	668.8
140°	340.0	360.5	384.2	408.8	435.6	464.9	498.9	534.5	572.4	608.8	643.6
142.5°	346.3	365.6	388.6	412.6	437.5	464.9	494.5	525.6	557.9	589.1	618.3
145°	356.6	374.0	395.3	417.5	439.6	463.3	488.6	513.1	539.2	563.7	586.6
147.5°	365.1	380.6	400.7	420.2	440.2	460.5	482.6	503.4	524.0	543.1	559.9
150°	370.8	385.0	403.2	421.4	439.6	458.6	477.5	496.5	513.9	530.5	544.7
152.5°	376.5	389.4	405.8	422.0	438.3	455.4	473.1	489.6	505.6	519.8	532.1
155°	384.2	396.1	409.6	422.9	436.4	449.9	464.9	479.9	492.6	504.4	513.1
157.5°	390.9	400.8	412.3	422.9	432.8	444.2	457.2	468.7	479.3	489.3	496.1
160°	395.3	404.0	413.5	422.9	430.9	440.4	451.5	461.7	470.4	479.1	484.7
162.5°	399.1	405.9	414.2	422.3	429.0	437.2	446.4	454.8	462.2	469.6	473.9
165°	403.2	408.0	415.1	420.6	425.3	430.9	438.0	444.3	449.9	455.4	458.6
167.5°	406.7	409.7	414.9	419.5	421.7	425.3	429.8	434.4	438.6	442.4	445.3
170°	408.0	410.4	414.3	418.3	419.9	422.2	425.3	429.3	431.7	434.8	436.4
172.5°	409.2	411.0	413.7	416.4	417.3	418.4	421.0	423.6	425.3	427.9	428.8
175°	410.4	411.1	412.7	414.3	413.5	414.3	415.1	417.5	418.3	419.1	419.9
177.5°	411.1	411.1	411.8	413.0	411.8	411.1	411.8	413.0	413.0	413.7	413.7
180°	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1



TEST NUMBER: P331635-927

CATALOG NUMBER: SA2XXRDIP-C290D925U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	497.3	497.6	497.2	497.4	497.2	497.6	497.3	498.9	499.2	499.5	499.2
5°	463.3	461.2	460.8	460.3	460.8	461.2	463.3	464.2	465.0	466.4	469.0
7.5°	422.9	422.6	421.6	420.3	421.6	422.6	422.9	426.0	428.4	431.2	436.3
10°	396.8	395.9	395.7	394.4	395.7	395.9	396.8	400.8	403.6	407.6	414.6
12.5°	366.2	360.4	359.9	356.7	359.9	360.4	366.2	371.4	379.1	382.9	390.4
15°	311.9	310.8	307.1	304.8	307.1	310.8	311.9	316.2	319.0	329.5	341.5
17.5°	280.7	277.2	276.1	275.6	276.1	277.2	280.7	282.8	286.9	292.5	299.7
20°	260.7	257.5	257.0	256.6	257.0	257.5	260.7	263.2	266.5	272.4	280.0
22.5°	246.9	243.5	242.2	241.1	242.2	243.5	246.9	248.8	251.8	256.4	261.6
25°	223.3	222.0	221.3	220.9	221.3	222.0	223.3	225.1	228.0	234.3	239.7
27.5°	204.9	202.1	201.5	200.6	201.5	202.1	204.9	208.0	211.0	213.9	218.7
30°	194.3	193.5	192.2	191.1	192.2	193.5	194.3	196.0	198.0	202.8	207.5
32.5°	182.0	181.2	180.1	179.6	180.1	181.2	182.0	184.2	188.3	191.3	194.6
35°	168.3	165.7	164.6	163.0	164.6	165.7	168.3	170.1	171.7	174.2	180.3
37.5°	153.8	152.4	150.9	151.5	150.9	152.4	153.8	154.5	157.9	161.4	164.1
40°	142.5	141.6	141.2	141.1	141.2	141.6	142.5	144.9	149.0	150.6	154.6
42.5°	133.6	131.1	130.2	130.2	130.2	131.1	133.6	136.3	138.8	141.4	145.5
45°	120.0	117.7	116.1	116.2	116.1	117.7	120.0	120.9	123.1	128.3	130.6
47.5°	106.2	106.1	105.0	105.4	105.0	106.1	106.2	107.7	110.4	113.7	117.4
50°	99.5	98.5	97.7	97.9	97.7	98.5	99.5	100.8	102.3	104.0	109.8
52.5°	93.2	92.2	91.7	92.4	91.7	92.2	93.2	93.9	95.1	96.6	100.5
55°	82.8	81.7	81.5	81.4	81.5	81.7	82.8	83.7	85.1	86.3	88.2
57.5°	71.1	70.4	69.3	68.9	69.3	70.4	71.1	72.5	74.2	75.9	77.7
60°	62.8	61.4	59.6	59.4	59.6	61.4	62.8	65.1	65.8	68.4	70.5
62.5°	55.1	54.9	54.5	54.5	54.5	54.9	55.1	55.9	57.0	60.6	63.2
65°	48.4	48.2	48.4	48.6	48.4	48.2	48.4	48.8	49.0	49.3	50.4
67.5°	42.1	41.8	41.5	41.7	41.5	41.8	42.1	42.2	42.8	42.9	43.7
70°	37.4	37.2	37.1	37.1	37.1	37.2	37.4	37.8	38.2	38.5	39.4
72.5°	32.8	32.8	32.6	32.5	32.6	32.8	32.8	33.5	33.7	34.1	34.6
75°	26.3	25.9	25.9	25.9	25.9	25.9	26.3	26.5	26.6	27.2	27.6
77.5°	20.0	19.8	19.6	19.5	19.6	19.8	20.0	20.0	20.4	20.4	20.8
80°	15.8	15.7	15.4	15.4	15.4	15.7	15.8	16.0	16.0	16.6	16.4
82.5°	12.1	11.9	11.9	11.7	11.9	11.9	12.1	12.1	12.1	12.5	12.5
85°	6.5	6.7	6.5	6.8	6.5	6.7	6.5	6.3	6.5	6.8	6.8
87.5°	7.1	7.0	7.1	7.0	7.1	7.0	7.1	7.1	7.1	6.7	7.1
90°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	25.3	23.7	25.3
92.5°	47.0	44.4	45.1	43.8	45.1	44.4	47.0	47.6	52.5	59.2	68.9
95°	98.1	91.7	89.4	90.2	89.4	91.7	98.1	108.3	125.7	158.9	207.2
97.5°	215.1	195.6	184.0	177.4	184.0	195.6	215.1	252.9	309.9	395.5	483.4
100°	354.2	320.2	297.3	283.0	297.3	320.2	354.2	419.9	515.5	623.8	721.8
102.5°	604.0	546.0	517.4	498.1	517.4	546.0	604.0	675.3	776.7	856.0	878.1
105°	985.1	936.1	902.1	891.0	902.1	936.1	985.1	1034.1	1060.3	1050.0	960.6
107.5°	1162.4	1159.7	1152.9	1138.2	1152.9	1159.7	1162.4	1156.2	1117.9	1035.7	901.2
110°	1191.4	1206.5	1213.6	1212.8	1213.6	1206.5	1191.4	1157.5	1092.7	991.4	849.9



TEST NUMBER: P331635-927

CATALOG NUMBER: SA2XXRDIP-C290D925U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1168.7	1193.8	1207.3	1211.6	1207.3	1193.8	1168.7	1121.4	1047.1	939.0	803.1
115°	1108.4	1144.8	1165.4	1172.5	1165.4	1144.8	1108.4	1052.3	970.9	867.3	745.5
117.5°	1036.6	1075.1	1096.8	1102.7	1096.8	1075.1	1036.6	979.5	903.0	809.1	702.2
120°	989.8	1027.0	1050.0	1057.9	1050.0	1027.0	989.8	934.5	862.5	778.8	680.7
122.5°	947.5	984.0	1004.4	1011.1	1004.4	984.0	947.5	897.9	832.8	753.4	663.6
125°	895.0	925.0	944.8	951.1	944.8	925.0	895.0	849.1	789.8	720.3	638.8
127.5°	848.3	876.5	893.6	898.7	893.6	876.5	848.3	808.3	753.6	688.0	614.3
130°	819.9	846.8	862.5	868.9	862.5	846.8	819.9	781.2	729.0	666.5	598.5
132.5°	790.8	817.7	832.2	837.9	832.2	817.7	790.8	752.7	703.6	646.3	583.3
135°	744.7	770.9	785.1	788.2	785.1	770.9	744.7	710.7	666.5	614.3	562.1
137.5°	699.9	722.3	734.8	739.6	734.8	722.3	699.9	668.8	630.3	588.8	545.2
140°	668.8	689.4	701.3	706.0	701.3	689.4	668.8	643.6	608.8	572.4	534.5
142.5°	642.3	661.0	671.5	672.5	671.5	661.0	642.3	618.3	589.1	557.9	525.6
145°	605.6	619.1	626.9	629.3	626.9	619.1	605.6	586.6	563.7	539.2	513.1
147.5°	575.6	586.3	591.7	593.1	591.7	586.3	575.6	559.9	543.1	524.0	503.4
150°	556.6	566.1	570.8	571.6	570.8	566.1	556.6	544.7	530.5	513.9	496.5
152.5°	541.4	549.6	553.1	553.3	553.1	549.6	541.4	532.1	519.8	505.6	489.6
155°	521.8	527.4	530.5	528.9	530.5	527.4	521.8	513.1	504.4	492.6	479.9
157.5°	502.2	506.8	508.2	508.2	508.2	506.8	502.2	496.1	489.3	479.3	468.7
160°	490.2	494.2	495.0	495.0	495.0	494.2	490.2	484.7	479.1	470.4	461.7
162.5°	479.4	482.1	482.9	482.3	482.9	482.1	479.4	473.9	469.6	462.2	454.8
165°	461.7	464.9	464.9	464.1	464.9	464.9	461.7	458.6	455.4	449.9	444.3
167.5°	446.7	448.5	448.3	447.3	448.3	448.5	446.7	445.3	442.4	438.6	434.4
170°	437.2	439.6	438.8	437.2	438.8	439.6	437.2	436.4	434.8	431.7	429.3
172.5°	429.6	430.7	429.9	429.0	429.9	430.7	429.6	428.8	427.9	425.3	423.6
175°	419.9	420.6	419.9	418.3	419.9	420.6	419.9	419.9	419.1	418.3	417.5
177.5°	413.7	413.7	413.0	411.8	413.0	413.7	413.7	413.7	413.7	413.0	413.0
180°	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1



TEST NUMBER: P331635-927

CATALOG NUMBER: SA2XXRDIP-C290D925U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	498.0	500.0	503.0	504.8	507.6	509.5	510.6	512.4	513.4	517.1	520.8
5°	470.2	473.1	478.1	482.8	487.8	493.1	496.9	501.1	505.1	511.9	519.1
7.5°	438.3	442.3	450.1	457.6	466.4	473.7	480.2	487.6	494.2	504.0	514.2
10°	414.4	421.4	431.7	438.7	450.2	457.6	467.9	475.9	485.1	498.1	509.6
12.5°	393.8	402.3	410.5	420.3	430.6	442.9	454.2	464.6	475.5	488.9	502.4
15°	356.5	368.7	381.5	391.4	405.4	418.4	431.5	445.5	458.8	474.9	492.5
17.5°	308.4	322.6	344.0	361.0	377.5	390.5	406.8	423.7	439.4	458.8	478.4
20°	286.7	297.1	311.6	334.5	359.3	373.2	389.8	408.4	426.4	447.5	468.6
22.5°	269.3	278.5	290.2	308.0	335.7	354.7	371.9	390.9	411.8	433.2	456.6
25°	244.4	250.8	263.1	277.5	296.5	327.6	346.6	365.7	388.3	411.4	438.0
27.5°	225.7	231.6	239.5	253.2	267.4	289.8	319.8	340.6	363.2	389.1	416.8
30°	211.4	218.2	227.1	236.8	252.3	269.7	299.8	323.9	346.2	372.9	402.3
32.5°	201.1	206.4	214.0	223.9	236.7	253.5	277.5	306.7	328.5	356.6	387.4
35°	184.1	190.4	196.5	205.9	216.3	231.6	249.8	281.1	302.7	330.3	361.3
37.5°	170.1	174.0	180.7	188.1	199.2	210.6	226.3	254.4	277.7	304.9	336.6
40°	159.5	164.3	169.3	177.6	186.6	197.6	213.0	233.9	260.7	287.4	318.3
42.5°	149.1	155.2	160.6	166.1	175.9	187.0	199.6	217.2	244.6	269.8	299.9
45°	136.6	140.5	146.1	152.3	160.3	169.7	180.9	196.3	222.6	244.4	272.6
47.5°	122.1	127.9	131.5	137.4	145.1	154.1	164.5	177.8	199.1	219.5	245.7
50°	112.1	118.0	123.3	128.7	135.5	144.1	152.8	165.7	182.8	204.2	228.7
52.5°	103.6	108.8	113.9	119.3	126.0	133.9	142.1	153.5	168.1	187.8	211.6
55°	92.0	95.2	100.4	105.8	111.8	119.3	127.2	136.7	149.3	165.9	185.1
57.5°	80.0	83.7	87.9	93.3	99.3	105.1	112.3	120.9	130.8	145.8	162.2
60°	73.3	76.1	79.5	85.1	90.7	95.9	102.7	110.0	119.3	132.3	146.3
62.5°	65.8	68.5	71.6	76.4	81.9	86.7	92.7	100.3	108.2	120.0	132.3
65°	53.2	57.2	60.3	64.6	69.1	74.1	78.8	84.9	92.0	101.3	112.3
67.5°	44.1	46.2	49.0	52.9	57.5	61.9	66.3	71.1	77.2	84.4	93.1
70°	40.2	40.9	41.4	45.2	49.5	53.8	57.9	62.4	67.7	73.6	81.1
72.5°	35.4	36.1	36.8	38.4	41.8	46.2	50.5	53.8	58.7	63.7	69.8
75°	28.0	29.2	29.7	30.6	31.8	34.7	38.7	41.9	44.8	48.6	53.5
77.5°	21.4	22.0	22.6	23.5	24.3	25.6	27.9	30.7	33.5	35.6	39.0
80°	17.0	17.1	17.8	18.1	19.3	20.1	21.2	23.6	26.3	27.2	29.5
82.5°	12.8	12.9	13.5	13.9	14.3	15.1	16.5	17.1	19.3	20.4	21.9
85°	7.1	6.8	7.4	7.4	7.8	8.1	8.5	9.3	9.9	11.3	11.7
87.5°	7.4	7.5	7.5	6.6	5.5	5.0	4.6	4.4	4.4	4.2	4.4
90°	26.1	26.9	26.1	21.3	15.8	11.9	9.5	7.9	6.3	3.2	0.8
92.5°	86.8	102.7	101.3	78.9	53.8	35.9	28.4	23.1	19.6	13.9	9.7
95°	271.2	309.9	274.3	182.6	113.8	77.5	58.5	45.9	38.7	30.8	27.6
97.5°	555.0	529.1	398.5	246.1	150.2	104.5	83.0	68.4	57.8	49.4	45.1
100°	738.5	624.6	430.1	259.4	162.9	121.0	98.9	83.0	70.3	63.2	60.8
102.5°	806.8	627.7	418.1	260.0	174.3	135.5	113.4	97.0	84.3	77.2	75.4
105°	796.1	585.8	394.5	264.0	193.7	156.5	134.4	117.0	105.1	99.7	96.5
107.5°	726.7	541.0	382.8	275.0	213.7	177.6	155.3	138.1	127.1	121.8	119.2
110°	683.1	519.4	380.3	283.8	226.9	192.1	169.2	152.6	142.3	137.6	134.4



TEST NUMBER: P331635-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	652.8	505.5	380.9	293.3	239.6	206.0	182.4	166.5	156.9	151.5	148.3
115°	615.1	490.2	384.2	307.5	259.4	225.3	204.0	188.1	178.7	174.0	170.0
117.5°	591.4	482.8	389.9	322.7	277.5	246.1	223.9	208.7	200.3	195.6	192.4
120°	578.8	478.3	393.7	332.9	290.2	259.4	237.2	221.3	214.3	209.5	206.4
122.5°	568.0	475.8	398.2	341.7	302.1	273.2	250.5	234.6	226.9	222.1	219.7
125°	552.6	471.2	404.8	355.8	320.2	291.8	269.6	253.8	244.3	239.6	237.2
127.5°	538.4	468.5	411.6	368.9	337.0	309.3	286.5	271.3	260.9	254.3	251.1
130°	528.9	467.2	416.7	377.2	347.1	319.4	297.3	281.5	270.4	262.4	259.4
132.5°	521.3	466.6	421.7	385.3	355.9	329.5	307.4	291.0	279.2	270.7	266.9
135°	510.7	465.6	427.7	396.1	368.4	343.1	321.0	302.8	291.0	281.5	278.3
137.5°	503.3	465.5	433.1	404.3	378.6	353.6	333.0	315.0	302.3	292.9	289.1
140°	498.9	464.9	435.6	408.8	384.2	360.5	340.0	322.6	309.9	300.5	297.3
142.5°	494.5	464.9	437.5	412.6	388.6	365.6	346.3	329.5	316.9	308.0	305.5
145°	488.6	463.3	439.6	417.5	395.3	374.0	356.6	340.8	328.9	321.0	317.8
147.5°	482.6	460.5	440.2	420.2	400.7	380.6	365.1	352.0	341.0	333.5	331.1
150°	477.5	458.6	439.6	421.4	403.2	385.0	370.8	358.9	348.6	342.3	340.0
152.5°	473.1	455.4	438.3	422.0	405.8	389.4	376.5	365.3	356.2	349.9	348.8
155°	464.9	449.9	436.4	422.9	409.6	396.1	384.2	375.6	366.9	362.1	361.3
157.5°	457.2	444.2	432.8	422.9	412.3	400.8	390.9	383.9	376.4	372.6	371.8
160°	451.5	440.4	430.9	422.9	413.5	404.0	395.3	389.0	382.6	379.5	378.7
162.5°	446.4	437.2	429.0	422.3	414.2	405.9	399.1	393.4	388.3	385.2	385.6
165°	438.0	430.9	425.3	420.6	415.1	408.0	403.2	399.3	394.5	392.9	393.7
167.5°	429.8	425.3	421.7	419.5	414.9	409.7	406.7	403.9	400.8	399.4	400.4
170°	425.3	422.2	419.9	418.3	414.3	410.4	408.0	406.4	404.0	403.2	404.8
172.5°	421.0	418.4	417.3	416.4	413.7	411.0	409.2	408.3	405.9	406.4	407.3
175°	415.1	414.3	413.5	414.3	412.7	411.1	410.4	410.4	408.8	409.6	410.4
177.5°	411.8	411.1	411.8	413.0	411.8	411.1	411.1	411.1	409.9	410.5	411.8
180°	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1



TEST NUMBER: P331635-927

CATALOG NUMBER: SA2XXRDIP-C290D925U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	520.9	521.3	524.2	525.5	528.1	529.1	530.3	530.0	530.0	530.5	534.6
5°	522.0	525.6	531.0	536.2	541.3	545.6	548.5	551.4	552.5	557.6	562.3
7.5°	520.1	526.8	535.7	543.7	553.2	560.6	566.8	572.4	576.2	583.8	591.6
10°	517.7	527.0	537.1	547.4	560.5	570.5	580.5	588.3	590.7	602.1	608.6
12.5°	512.8	525.3	538.1	551.4	564.3	577.9	589.0	596.8	605.6	615.8	627.7
15°	505.5	519.8	536.6	553.7	572.0	588.6	600.5	613.9	623.7	634.9	645.3
17.5°	495.0	513.5	534.7	554.5	575.8	593.5	609.9	622.8	629.6	636.0	637.5
20°	486.6	506.5	531.6	554.9	576.2	596.7	612.9	623.7	625.5	625.7	616.2
22.5°	477.5	500.1	526.2	550.2	575.6	598.4	611.0	615.6	608.5	596.3	577.8
25°	460.8	487.0	517.4	544.7	572.4	594.0	598.3	590.3	565.2	538.9	505.6
27.5°	442.8	472.1	504.7	535.1	564.7	578.1	568.7	539.5	494.5	455.3	407.8
30°	429.5	462.5	494.5	528.5	555.9	561.6	540.2	497.2	444.7	385.6	338.3
32.5°	414.4	448.9	484.1	519.3	542.2	536.5	501.2	448.2	386.7	328.6	283.9
35°	392.8	428.4	466.4	501.7	516.3	491.9	439.0	370.1	307.1	253.0	222.2
37.5°	367.9	406.7	446.2	478.6	477.5	437.0	365.0	293.8	240.9	208.8	187.0
40°	350.1	389.4	432.1	459.4	447.7	395.0	316.9	249.8	211.0	185.5	169.5
42.5°	333.2	372.6	414.9	436.7	416.3	351.5	273.7	221.1	189.2	169.3	156.3
45°	304.3	345.9	385.1	397.1	360.8	289.4	221.3	183.2	161.9	147.2	138.2
47.5°	276.0	317.0	352.8	352.9	303.8	234.6	186.7	158.5	140.4	129.0	122.5
50°	258.7	297.6	327.6	323.0	267.2	208.7	167.0	142.7	127.6	118.7	111.9
52.5°	239.3	277.0	303.1	289.8	236.2	183.7	149.2	128.9	116.4	108.7	102.6
55°	211.0	244.5	262.9	242.7	192.7	152.8	126.1	110.1	100.8	94.3	89.0
57.5°	183.3	211.0	222.4	199.0	158.8	126.7	106.7	94.7	85.4	80.7	78.0
60°	165.9	189.5	197.6	171.7	138.0	110.8	94.5	83.3	76.4	73.4	70.7
62.5°	148.8	168.0	171.3	147.7	120.3	97.0	82.9	73.5	69.0	66.1	63.5
65°	123.4	137.3	135.7	116.6	95.2	77.0	66.8	61.0	57.6	53.5	49.0
67.5°	101.6	110.1	105.0	90.7	72.6	59.9	53.2	48.8	44.5	40.6	39.6
70°	87.8	92.7	87.3	74.1	59.6	50.2	44.8	39.6	37.1	36.2	34.5
72.5°	74.5	76.3	70.4	59.2	48.5	41.6	36.3	33.4	32.0	31.3	30.3
75°	55.9	54.7	49.7	40.9	33.7	29.0	27.3	26.3	25.3	24.6	24.1
77.5°	39.3	37.5	33.0	27.2	23.4	21.2	20.2	19.6	19.3	18.9	18.3
80°	29.5	28.3	23.8	19.4	17.8	16.7	16.2	15.4	15.4	15.1	14.6
82.5°	21.6	20.2	16.2	14.3	13.4	12.7	12.3	11.9	11.7	11.8	11.4
85°	11.3	9.2	8.1	7.8	7.2	6.8	7.1	6.7	6.7	6.7	6.5
87.5°	4.1	4.0	4.2	4.4	5.0	5.8	6.7	7.7	8.0	7.7	7.7
90°	3.2	6.3	7.9	9.5	11.9	15.8	21.3	26.1	26.9	26.1	25.3
92.5°	13.9	19.6	23.1	28.4	35.9	53.8	78.9	101.3	102.7	86.8	68.9
95°	30.8	38.7	45.9	58.5	77.5	113.8	182.6	274.3	309.9	271.2	207.2
97.5°	49.4	57.8	68.4	83.0	104.5	150.2	246.1	398.5	529.1	555.0	483.4
100°	63.2	70.3	83.0	98.9	121.0	162.9	259.4	430.1	624.6	738.5	721.8
102.5°	77.2	84.3	97.0	113.4	135.5	174.3	260.0	418.1	627.7	806.8	878.1
105°	99.7	105.1	117.0	134.4	156.5	193.7	264.0	394.5	585.8	796.1	960.6
107.5°	121.8	127.1	138.1	155.3	177.6	213.7	275.0	382.8	541.0	726.7	901.2
110°	137.6	142.3	152.6	169.2	192.1	226.9	283.8	380.3	519.4	683.1	849.9



TEST NUMBER: P331635-927

CATALOG NUMBER: SA2XXRDIP-C290D925U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	151.5	156.9	166.5	182.4	206.0	239.6	293.3	380.9	505.5	652.8	803.1
115°	174.0	178.7	188.1	204.0	225.3	259.4	307.5	384.2	490.2	615.1	745.5
117.5°	195.6	200.3	208.7	223.9	246.1	277.5	322.7	389.9	482.8	591.4	702.2
120°	209.5	214.3	221.3	237.2	259.4	290.2	332.9	393.7	478.3	578.8	680.7
122.5°	222.1	226.9	234.6	250.5	273.2	302.1	341.7	398.2	475.8	568.0	663.6
125°	239.6	244.3	253.8	269.6	291.8	320.2	355.8	404.8	471.2	552.6	638.8
127.5°	254.3	260.9	271.3	286.5	309.3	337.0	368.9	411.6	468.5	538.4	614.3
130°	262.4	270.4	281.5	297.3	319.4	347.1	377.2	416.7	467.2	528.9	598.5
132.5°	270.7	279.2	291.0	307.4	329.5	355.9	385.3	421.7	466.6	521.3	583.3
135°	281.5	291.0	302.8	321.0	343.1	368.4	396.1	427.7	465.6	510.7	562.1
137.5°	292.9	302.3	315.0	333.0	353.6	378.6	404.3	433.1	465.5	503.3	545.2
140°	300.5	309.9	322.6	340.0	360.5	384.2	408.8	435.6	464.9	498.9	534.5
142.5°	308.0	316.9	329.5	346.3	365.6	388.6	412.6	437.5	464.9	494.5	525.6
145°	321.0	328.9	340.8	356.6	374.0	395.3	417.5	439.6	463.3	488.6	513.1
147.5°	333.5	341.0	352.0	365.1	380.6	400.7	420.2	440.2	460.5	482.6	503.4
150°	342.3	348.6	358.9	370.8	385.0	403.2	421.4	439.6	458.6	477.5	496.5
152.5°	349.9	356.2	365.3	376.5	389.4	405.8	422.0	438.3	455.4	473.1	489.6
155°	362.1	366.9	375.6	384.2	396.1	409.6	422.9	436.4	449.9	464.9	479.9
157.5°	372.6	376.4	383.9	390.9	400.8	412.3	422.9	432.8	444.2	457.2	468.7
160°	379.5	382.6	389.0	395.3	404.0	413.5	422.9	430.9	440.4	451.5	461.7
162.5°	385.2	388.3	393.4	399.1	405.9	414.2	422.3	429.0	437.2	446.4	454.8
165°	392.9	394.5	399.3	403.2	408.0	415.1	420.6	425.3	430.9	438.0	444.3
167.5°	399.4	400.8	403.9	406.7	409.7	414.9	419.5	421.7	425.3	429.8	434.4
170°	403.2	404.0	406.4	408.0	410.4	414.3	418.3	419.9	422.2	425.3	429.3
172.5°	406.4	405.9	408.3	409.2	411.0	413.7	416.4	417.3	418.4	421.0	423.6
175°	409.6	408.8	410.4	410.4	411.1	412.7	414.3	413.5	414.3	415.1	417.5
177.5°	410.5	409.9	411.1	411.1	411.1	411.8	413.0	411.8	411.1	411.8	413.0
180°	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	536.0	537.9	538.8	538.8	539.8	539.3	538.9
5°	566.8	570.2	571.0	574.2	576.6	575.8	576.2
7.5°	597.5	602.9	608.4	610.9	611.2	612.7	613.2
10°	616.3	620.8	629.2	628.0	634.3	637.9	632.0
12.5°	634.5	640.6	646.4	648.0	651.6	652.8	650.4
15°	650.9	654.1	654.4	653.6	654.7	653.7	650.3
17.5°	635.6	630.3	619.6	614.6	610.6	604.7	602.3
20°	610.2	594.7	576.7	569.5	561.1	544.5	548.5
22.5°	555.5	537.9	519.8	498.8	488.8	473.1	472.1
25°	470.4	440.0	406.5	383.1	369.4	353.8	346.9
27.5°	365.8	327.4	300.0	286.1	273.5	261.1	260.5
30°	296.9	268.2	246.9	235.0	227.3	222.0	223.2
32.5°	250.3	230.5	216.2	206.4	200.7	196.7	196.6
35°	204.6	191.1	181.9	177.8	173.6	170.8	171.0
37.5°	175.1	167.0	161.8	157.3	154.7	153.3	152.5
40°	159.9	153.3	149.3	146.6	144.5	142.5	142.1
42.5°	148.1	142.5	138.6	136.4	134.4	133.0	132.7
45°	131.3	126.8	123.3	120.9	120.0	118.7	118.7
47.5°	116.8	112.4	109.6	108.1	106.6	105.8	105.8
50°	107.1	103.6	101.2	100.2	98.9	98.5	98.2
52.5°	98.3	95.7	94.0	93.3	92.8	92.1	92.2
55°	86.3	84.9	84.2	83.7	82.8	81.7	82.4
57.5°	76.4	75.1	73.2	71.5	70.7	69.9	70.2
60°	69.3	66.8	64.2	62.3	61.7	60.1	60.1
62.5°	60.4	56.8	53.7	52.6	52.0	51.3	51.2
65°	46.4	45.0	44.3	43.6	43.2	43.2	42.9
67.5°	38.5	37.9	37.1	36.9	36.6	36.4	36.4
70°	34.0	33.3	33.0	32.7	32.4	32.6	32.0
72.5°	29.7	29.2	29.1	28.6	28.4	28.4	28.0
75°	23.4	23.4	23.2	23.1	22.7	22.5	22.7
77.5°	18.0	18.1	17.7	17.7	17.7	17.7	17.5
80°	14.4	14.6	14.4	14.2	14.0	14.2	14.0
82.5°	11.4	11.1	11.1	11.0	11.0	10.9	10.9
85°	6.5	6.7	6.5	6.3	6.3	6.3	6.5
87.5°	7.2	7.5	7.7	7.7	7.7	7.7	7.5
90°	23.7	25.3	26.1	26.1	26.1	26.1	26.1
92.5°	59.2	52.5	47.6	47.0	44.4	45.1	43.8
95°	158.9	125.7	108.3	98.1	91.7	89.4	90.2
97.5°	395.5	309.9	252.9	215.1	195.6	184.0	177.4
100°	623.8	515.5	419.9	354.2	320.2	297.3	283.0
102.5°	856.0	776.7	675.3	604.0	546.0	517.4	498.1
105°	1050.0	1060.3	1034.1	985.1	936.1	902.1	891.0
107.5°	1035.7	1117.9	1156.2	1162.4	1159.7	1152.9	1138.2
110°	991.4	1092.7	1157.5	1191.4	1206.5	1213.6	1212.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	939.0	1047.1	1121.4	1168.7	1193.8	1207.3	1211.6
115°	867.3	970.9	1052.3	1108.4	1144.8	1165.4	1172.5
117.5°	809.1	903.0	979.5	1036.6	1075.1	1096.8	1102.7
120°	778.8	862.5	934.5	989.8	1027.0	1050.0	1057.9
122.5°	753.4	832.8	897.9	947.5	984.0	1004.4	1011.1
125°	720.3	789.8	849.1	895.0	925.0	944.8	951.1
127.5°	688.0	753.6	808.3	848.3	876.5	893.6	898.7
130°	666.5	729.0	781.2	819.9	846.8	862.5	868.9
132.5°	646.3	703.6	752.7	790.8	817.7	832.2	837.9
135°	614.3	666.5	710.7	744.7	770.9	785.1	788.2
137.5°	588.8	630.3	668.8	699.9	722.3	734.8	739.6
140°	572.4	608.8	643.6	668.8	689.4	701.3	706.0
142.5°	557.9	589.1	618.3	642.3	661.0	671.5	672.5
145°	539.2	563.7	586.6	605.6	619.1	626.9	629.3
147.5°	524.0	543.1	559.9	575.6	586.3	591.7	593.1
150°	513.9	530.5	544.7	556.6	566.1	570.8	571.6
152.5°	505.6	519.8	532.1	541.4	549.6	553.1	553.3
155°	492.6	504.4	513.1	521.8	527.4	530.5	528.9
157.5°	479.3	489.3	496.1	502.2	506.8	508.2	508.2
160°	470.4	479.1	484.7	490.2	494.2	495.0	495.0
162.5°	462.2	469.6	473.9	479.4	482.1	482.9	482.3
165°	449.9	455.4	458.6	461.7	464.9	464.9	464.1
167.5°	438.6	442.4	445.3	446.7	448.5	448.3	447.3
170°	431.7	434.8	436.4	437.2	439.6	438.8	437.2
172.5°	425.3	427.9	428.8	429.6	430.7	429.9	429.0
175°	418.3	419.1	419.9	419.9	420.6	419.9	418.3
177.5°	413.0	413.7	413.7	413.7	413.7	413.0	411.8
180°	411.1	411.1	411.1	411.1	411.1	411.1	411.1

(END OF REPORT)