

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: P331629-840

Luminaire Tested: **SA2XXRDIP-C290D725U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331629-840
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-C290D725U840-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

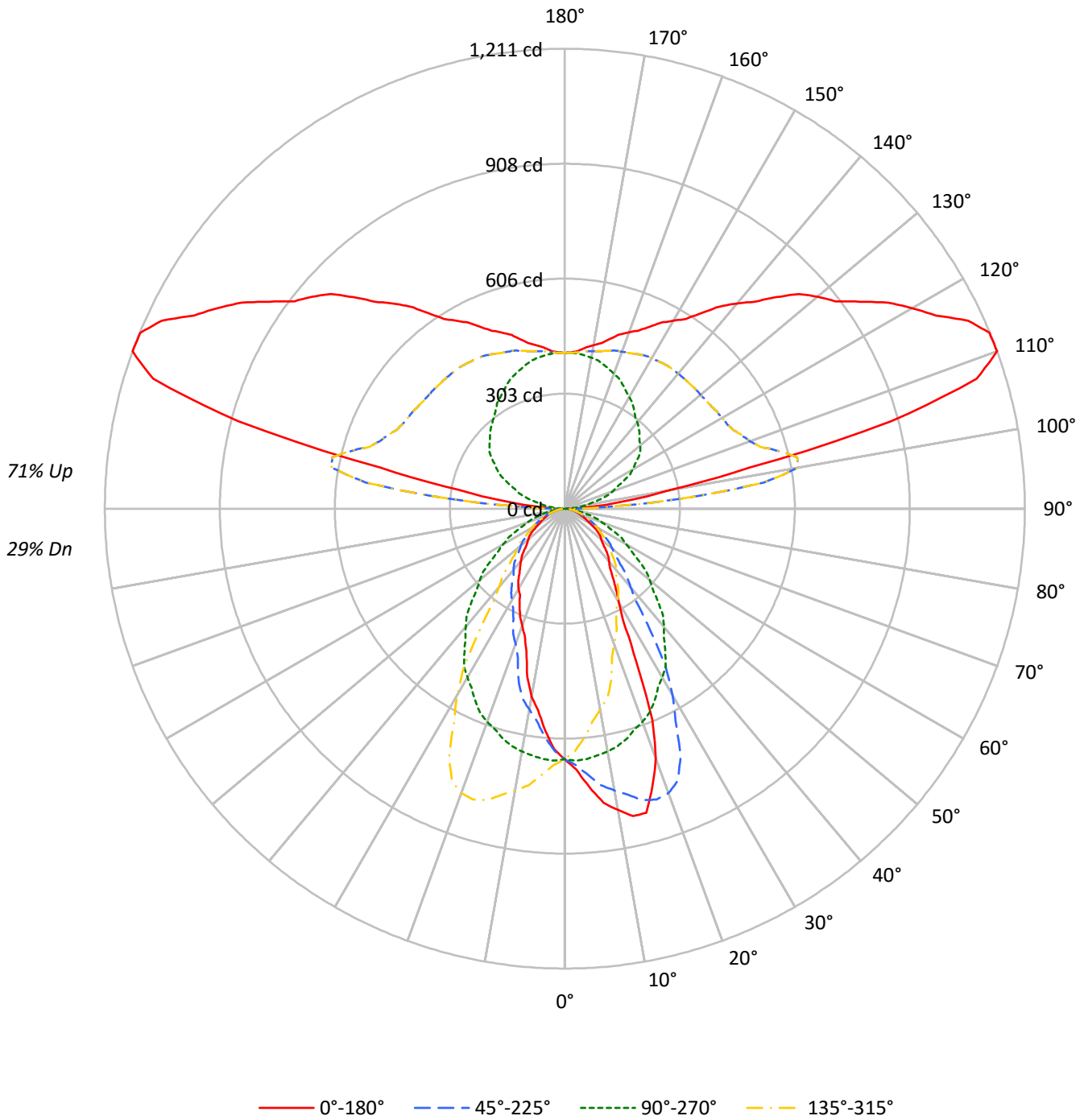
Lumens per Lamp: N/A
Luminaire Lumens: 4001.2 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	29				
1	93	89	86	83	84	80	77	75	63	61	59	47	46	45	33	32	32	25				
2	85	79	73	68	76	71	66	62	56	53	50	42	40	38	29	28	27	22				
3	78	69	63	57	70	63	57	52	50	46	42	38	35	33	27	25	24	19				
4	72	62	54	49	64	56	49	45	44	40	36	34	31	29	24	22	21	17				
5	66	55	48	42	59	50	43	38	40	35	32	31	27	25	22	20	19	15				
6	61	49	42	36	54	45	38	34	36	31	28	28	25	22	20	18	17	13				
7	56	45	37	32	50	41	34	30	33	28	25	25	22	20	18	16	15	12				
8	52	41	33	28	47	37	31	26	30	25	22	23	20	18	17	15	14	11				
9	49	37	30	25	44	34	28	23	27	23	20	21	18	16	16	14	12	10				
10	45	34	27	23	41	31	25	21	25	21	18	20	17	15	15	13	11	9				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10658	10658	10658	10658
5°	11904	10726	9511	10726
10°	13209	10650	8243	10650
15°	13857	10494	6496	10494
20°	12014	10263	5620	10263
25°	7878	9948	5018	9948
30°	5304	9562	4542	9562
35°	4295	9079	4096	9079
40°	3819	8553	3792	8553
45°	3457	7935	3382	7935
50°	3145	7322	3135	7322
55°	2956	6643	2919	6643
60°	2474	6022	2444	6022
65°	2086	5467	2365	5467
70°	1926	4881	2233	4881
75°	1803	4255	2059	4255
80°	1664	3505	1832	3505
85°	1538	2760	1612	2760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	1.6
10°-20°	174.4	4.4
20°-30°	224.7	5.6
30°-40°	213.5	5.3
40°-50°	182.9	4.6
50°-60°	139.3	3.5
60°-70°	88.1	2.2
70°-80°	44.0	1.1
80°-90°	15.1	0.4
90°-100°	164.1	4.1
100°-110°	557.0	13.9
110°-120°	591.7	14.8
120°-130°	487.1	12.2
130°-140°	391.2	9.8
140°-150°	295.6	7.4
150°-160°	207.7	5.2
160°-170°	122.3	3.1
170°-180°	39.8	1.0
0°-30°	461.7	11.5
0°-40°	675.2	16.9
0°-60°	997.5	24.9
0°-90°	1144.7	28.6
90°-120°	1312.8	32.8
90°-150°	2486.7	62.1
90°-180°	2856.0	71.4
0°-180°	4001.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	660	660	660	660	660	
5°	734	662	587	662	734	72
15°	829	628	389	628	829	224
25°	442	558	282	558	442	210
35°	218	461	208	461	218	139
45°	151	348	148	348	151	117
55°	105	236	104	236	105	92
65°	55	143	62	143	55	56
75°	29	68	33	68	29	31
85°	8	15	9	15	8	10
90°	26	1	26	1	26	14
95°	90	28	90	28	90	117
105°	890	96	890	96	890	861
115°	1171	170	1171	170	1171	1146
125°	950	237	950	237	950	858
135°	787	278	787	278	787	611
145°	628	317	628	317	628	399
155°	528	361	528	361	528	246
165°	463	393	463	393	463	132
175°	418	410	418	410	418	41
180°	410	410	410	410	410	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	687.0	687.5	688.1	686.8	686.8	685.7	683.3	681.5	676.3	675.6	675.6
5°	734.5	734.1	735.0	732.0	727.9	726.9	722.6	716.8	710.8	704.3	702.9
7.5°	781.7	781.0	779.2	778.7	775.6	768.6	761.6	754.2	744.3	734.6	729.7
10°	805.7	813.2	808.6	800.6	802.1	791.4	785.7	775.8	767.5	753.1	749.9
12.5°	829.1	832.1	830.6	826.1	824.0	816.6	808.8	800.2	785.0	772.0	760.7
15°	829.0	833.3	834.6	833.1	834.2	833.8	829.7	822.6	809.3	795.1	782.6
17.5°	767.8	770.8	778.4	783.5	789.9	803.4	810.2	812.7	810.8	802.6	794.0
20°	699.2	694.2	715.3	726.0	735.2	758.1	777.9	785.5	797.6	797.4	795.1
22.5°	601.9	603.1	623.1	635.9	662.7	685.7	708.1	736.6	760.1	775.7	784.8
25°	442.2	451.0	470.9	488.4	518.2	560.9	599.7	644.6	687.0	720.5	752.5
27.5°	332.1	332.9	348.6	364.8	382.4	417.4	466.3	519.9	580.4	630.4	687.7
30°	284.5	283.1	289.7	299.6	314.8	341.8	378.5	431.2	491.6	566.8	633.8
32.5°	250.6	250.7	255.8	263.1	275.6	293.9	319.0	361.9	418.9	492.9	571.4
35°	217.9	217.7	221.4	226.6	231.9	243.6	260.8	283.3	322.6	391.5	471.8
37.5°	194.4	195.4	197.2	200.6	206.3	212.9	223.2	238.3	266.2	307.1	374.6
40°	181.2	181.7	184.2	186.9	190.4	195.4	203.9	216.1	236.5	269.0	318.4
42.5°	169.2	169.6	171.4	173.9	176.6	181.7	188.7	199.2	215.8	241.2	281.9
45°	151.4	151.4	153.0	154.1	157.1	161.7	167.4	176.2	187.6	206.4	233.5
47.5°	134.8	134.8	135.9	137.8	139.8	143.3	149.0	156.1	164.4	178.9	202.1
50°	125.2	125.5	126.1	127.7	129.0	132.1	136.5	142.7	151.4	162.7	181.9
52.5°	117.5	117.4	118.3	119.0	119.8	122.0	125.3	130.8	138.6	148.3	164.3
55°	105.0	104.1	105.5	106.6	107.3	108.3	110.1	113.5	120.2	128.5	140.4
57.5°	89.5	89.1	90.1	91.1	93.3	95.7	97.4	99.5	102.9	108.9	120.7
60°	76.6	76.6	78.7	79.4	81.9	85.1	88.4	90.2	93.6	97.5	106.2
62.5°	65.2	65.4	66.3	67.1	68.5	72.4	77.0	81.0	84.2	88.0	93.7
65°	54.6	55.0	55.0	55.5	56.5	57.4	59.2	62.4	68.2	73.4	77.8
67.5°	46.4	46.5	46.7	47.1	47.3	48.3	49.1	50.5	51.8	56.8	62.2
70°	40.8	41.5	41.3	41.7	42.0	42.4	43.3	44.0	46.2	47.3	50.5
72.5°	35.6	36.2	36.2	36.5	37.1	37.2	37.9	38.6	39.9	40.8	42.6
75°	28.9	28.7	28.9	29.4	29.6	29.8	29.8	30.7	31.4	32.3	33.5
77.5°	22.3	22.5	22.5	22.5	22.6	23.0	22.9	23.3	24.0	24.5	25.0
80°	17.9	18.1	17.9	18.1	18.4	18.6	18.4	18.6	19.3	19.7	19.7
82.5°	13.8	13.9	14.0	14.0	14.1	14.1	14.5	14.5	15.0	14.9	15.1
85°	8.3	8.1	8.1	8.1	8.3	8.5	8.3	8.3	8.5	8.5	8.5
87.5°	8.2	8.3	8.3	8.3	8.3	8.2	7.9	8.4	8.3	8.7	8.3
90°	26.1	26.1	26.1	26.1	26.1	25.2	23.7	25.2	26.1	26.9	26.1
92.5°	43.7	45.0	44.3	46.9	47.6	52.4	59.1	68.9	86.6	102.6	101.2
95°	90.0	89.2	91.6	97.9	108.2	125.5	158.6	206.8	270.7	309.4	274.0
97.5°	177.1	183.8	195.3	214.7	252.5	309.4	394.9	482.6	554.2	528.3	397.9
100°	282.6	296.8	319.7	353.7	419.2	514.7	622.9	720.7	737.3	623.6	429.4
102.5°	497.4	516.5	545.1	603.1	674.3	775.5	854.6	876.8	805.5	626.8	417.5
105°	889.7	900.7	934.6	983.6	1032.6	1058.6	1048.3	959.2	795.0	584.9	393.9
107.5°	1136.4	1151.1	1157.9	1160.6	1154.5	1116.2	1034.1	899.8	725.6	540.1	382.2
110°	1210.9	1211.7	1204.7	1189.6	1155.7	1091.0	990.0	848.6	682.1	518.7	379.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1209.7	1205.5	1192.0	1166.9	1119.7	1045.5	937.5	801.9	651.8	504.7	380.3
115°	1170.7	1163.6	1143.1	1106.7	1050.7	969.4	866.0	744.4	614.2	489.5	383.6
117.5°	1101.1	1095.1	1073.5	1035.1	978.0	901.7	807.9	701.1	590.5	482.0	389.3
120°	1056.2	1048.3	1025.4	988.4	933.1	861.2	777.6	679.6	577.8	477.6	393.1
122.5°	1009.5	1002.9	982.5	946.0	896.5	831.5	752.3	662.7	567.1	475.0	397.6
125°	949.7	943.3	923.6	893.6	847.8	788.6	719.1	637.8	551.8	470.5	404.1
127.5°	897.3	892.2	875.1	847.1	807.1	752.5	686.9	613.4	537.6	467.8	411.0
130°	867.6	861.2	845.5	818.6	779.9	727.8	665.5	597.5	528.2	466.6	416.1
132.5°	836.6	830.9	816.4	789.6	751.5	702.6	645.3	582.4	520.6	466.0	421.1
135°	787.1	783.9	769.7	743.7	709.6	665.5	613.4	561.3	510.0	464.9	427.1
137.5°	738.4	733.7	721.2	698.8	667.8	629.3	587.9	544.4	502.5	464.8	432.4
140°	705.0	700.2	688.3	667.8	642.6	607.8	571.6	533.6	498.2	464.1	434.9
142.5°	671.5	670.6	659.9	641.4	617.3	588.2	557.0	524.8	493.7	464.1	436.9
145°	628.3	626.0	618.1	604.7	585.7	562.9	538.4	512.3	487.9	462.6	438.9
147.5°	592.2	590.8	585.4	574.7	559.1	542.3	523.2	502.7	481.9	459.8	439.6
150°	570.8	570.0	565.2	555.7	543.9	529.7	513.1	495.7	476.8	457.9	438.9
152.5°	552.4	552.3	548.8	540.6	531.3	519.0	504.9	488.8	472.4	454.7	437.7
155°	528.2	529.7	526.5	521.0	512.3	503.6	491.8	479.2	464.1	449.2	435.8
157.5°	507.5	507.5	506.0	501.4	495.2	488.5	478.6	468.0	456.5	443.5	432.1
160°	494.1	494.1	493.4	489.5	483.9	478.4	469.7	461.0	450.8	439.7	430.2
162.5°	481.5	482.2	481.4	478.7	473.2	468.9	461.5	454.0	445.7	436.6	428.4
165°	463.4	464.1	464.1	461.0	457.9	454.7	449.2	443.6	437.4	430.2	424.7
167.5°	446.7	447.6	447.8	446.1	444.6	441.7	438.0	433.7	429.1	424.7	421.1
170°	436.6	438.1	438.9	436.6	435.8	434.1	431.0	428.7	424.7	421.5	419.2
172.5°	428.4	429.3	430.1	429.0	428.2	427.3	424.7	422.9	420.3	417.8	416.7
175°	417.6	419.2	420.0	419.2	419.2	418.4	417.6	416.8	414.4	413.6	412.8
177.5°	411.1	412.4	413.0	413.0	413.0	413.0	412.4	412.4	411.1	410.5	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	676.0	674.5	673.2	669.9	668.2	664.6	664.1	663.9	659.1	654.5	653.2
5°	699.2	695.5	690.0	683.6	676.9	670.0	665.5	661.8	652.6	643.9	638.8
7.5°	722.6	714.7	705.2	693.1	682.9	671.6	663.1	655.5	642.5	630.0	621.6
10°	740.0	727.2	714.6	697.8	684.7	671.9	659.9	649.6	635.0	618.4	606.7
12.5°	750.8	736.7	719.3	703.0	686.0	669.6	653.7	640.5	623.2	606.1	592.3
15°	765.5	750.3	729.2	705.8	684.1	662.7	644.4	627.8	605.4	584.9	567.9
17.5°	777.5	756.6	734.0	706.9	681.7	654.6	631.0	609.9	584.8	560.2	540.2
20°	781.3	760.6	734.5	707.4	677.6	645.7	620.3	597.3	570.5	543.6	520.7
22.5°	778.9	762.9	733.8	701.4	670.9	637.5	608.7	582.1	552.3	524.9	498.4
25°	762.8	757.2	729.7	694.4	659.5	620.8	587.4	558.4	524.4	495.0	466.2
27.5°	725.0	736.9	719.8	682.2	643.4	601.9	564.4	531.3	496.0	463.0	434.2
30°	688.6	715.9	708.6	673.7	630.4	589.6	547.5	512.9	475.3	441.3	412.9
32.5°	638.9	684.0	691.2	662.0	617.1	572.3	528.3	493.8	454.5	418.8	391.0
35°	559.7	627.1	658.1	639.5	594.6	546.1	500.8	460.6	421.1	385.9	358.3
37.5°	465.2	557.1	608.7	610.1	568.8	518.5	469.0	429.1	388.7	354.1	324.3
40°	403.9	503.5	570.8	585.6	550.8	496.4	446.4	405.8	366.4	332.3	298.2
42.5°	348.9	448.1	530.7	556.6	529.0	474.9	424.7	382.3	344.0	311.8	276.9
45°	282.2	368.9	459.9	506.2	490.9	440.9	387.9	347.5	311.5	283.8	250.2
47.5°	238.0	299.1	387.3	449.9	449.7	404.0	351.8	313.3	279.8	253.8	226.7
50°	212.9	266.1	340.6	411.7	417.7	379.4	329.8	291.5	260.3	233.1	211.3
52.5°	190.3	234.2	301.1	369.4	386.4	353.1	305.1	269.7	239.4	214.3	195.7
55°	160.8	194.8	245.7	309.4	335.2	311.7	269.0	236.0	211.5	190.4	174.3
57.5°	136.0	161.5	202.4	253.7	283.6	268.9	233.7	206.8	185.8	166.7	154.1
60°	120.5	141.3	175.9	218.8	251.9	241.6	211.5	186.5	168.6	152.1	140.2
62.5°	105.7	123.7	153.4	188.2	218.4	214.2	189.7	168.6	153.0	137.9	127.8
65°	85.1	98.2	121.4	148.7	173.0	175.0	157.3	143.1	129.2	117.2	108.3
67.5°	67.8	76.3	92.6	115.6	133.8	140.4	129.6	118.7	107.6	98.4	90.6
70°	57.2	64.0	75.9	94.5	111.3	118.2	111.9	103.4	93.8	86.2	79.6
72.5°	46.3	53.0	61.8	75.4	89.8	97.3	95.0	89.0	81.2	74.8	68.6
75°	34.8	37.0	42.9	52.1	63.3	69.8	71.3	68.2	61.9	57.2	53.4
77.5°	25.8	27.1	29.9	34.6	42.0	47.8	50.1	49.7	45.4	42.7	39.2
80°	20.6	21.3	22.7	24.7	30.3	36.1	37.7	37.7	34.6	33.5	30.1
82.5°	15.7	16.2	17.1	18.2	20.7	25.8	27.6	27.9	26.1	24.5	21.8
85°	9.0	8.7	9.2	9.9	10.3	11.7	14.4	14.9	14.4	12.6	11.9
87.5°	7.4	6.5	5.7	5.0	4.8	4.7	5.0	5.5	5.3	5.3	5.3
90°	21.3	15.8	11.8	9.5	7.9	6.4	3.1	0.8	3.1	6.4	7.9
92.5°	78.8	53.7	35.9	28.4	23.0	19.6	13.9	9.6	13.9	19.6	23.0
95°	182.4	113.7	77.4	58.4	45.7	38.7	30.8	27.7	30.8	38.7	45.7
97.5°	245.7	150.0	104.3	82.9	68.4	57.7	49.3	45.0	49.3	57.7	68.4
100°	258.9	162.6	120.8	98.7	82.9	70.3	63.1	60.8	63.1	70.3	82.9
102.5°	259.5	174.0	135.3	113.2	96.7	84.1	77.1	75.3	77.1	84.1	96.7
105°	263.7	193.4	156.3	134.2	116.8	105.0	99.5	96.3	99.5	105.0	116.8
107.5°	274.6	213.3	177.3	155.0	137.8	126.9	121.6	119.1	121.6	126.9	137.8
110°	283.4	226.5	191.9	169.0	152.4	142.1	137.3	134.2	137.3	142.1	152.4



TEST NUMBER: P331629-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	292.9	239.2	205.7	182.2	166.2	156.6	151.3	148.0	151.3	156.6	166.2
115°	307.1	258.9	225.0	203.7	187.8	178.4	173.7	169.8	173.7	178.4	187.8
117.5°	322.2	277.1	245.7	223.6	208.4	200.1	195.3	192.2	195.3	200.1	208.4
120°	332.3	289.7	258.9	236.8	221.1	213.9	209.2	206.0	209.2	213.9	221.1
122.5°	341.2	301.7	272.9	250.0	234.3	226.5	221.9	219.3	221.9	226.5	234.3
125°	355.3	319.7	291.2	269.2	253.4	243.9	239.2	236.8	239.2	243.9	253.4
127.5°	368.3	336.5	308.8	286.1	270.9	260.5	253.9	250.7	253.9	260.5	270.9
130°	376.6	346.6	318.9	296.8	281.0	269.9	262.1	258.9	262.1	269.9	281.0
132.5°	384.8	355.4	329.0	306.9	290.5	278.8	270.3	266.5	270.3	278.8	290.5
135°	395.5	367.9	342.6	320.5	302.4	290.5	281.0	277.9	281.0	290.5	302.4
137.5°	403.7	378.0	353.0	332.5	314.5	301.8	292.4	288.6	292.4	301.8	314.5
140°	408.1	383.6	360.0	339.4	322.0	309.4	299.9	296.8	299.9	309.4	322.0
142.5°	411.9	388.1	365.1	345.8	329.0	316.4	307.6	305.0	307.6	316.4	329.0
145°	416.8	394.8	373.3	356.0	340.2	328.4	320.5	317.3	320.5	328.4	340.2
147.5°	419.5	400.1	380.0	364.6	351.4	340.5	333.0	330.6	333.0	340.5	351.4
150°	420.7	402.6	384.5	370.2	358.4	348.1	341.8	339.4	341.8	348.1	358.4
152.5°	421.4	405.2	388.9	375.9	364.7	355.7	349.4	348.3	349.4	355.7	364.7
155°	422.3	408.9	395.5	383.6	375.0	366.3	361.5	360.7	361.5	366.3	375.0
157.5°	422.3	411.6	400.2	390.3	383.3	375.8	371.9	371.2	371.9	375.8	383.3
160°	422.3	412.8	403.3	394.8	388.4	382.0	378.9	378.1	378.9	382.0	388.4
162.5°	421.7	413.5	405.3	398.5	392.8	387.8	384.6	385.1	384.6	387.8	392.8
165°	420.0	414.4	407.4	402.6	398.7	393.9	392.3	393.1	392.3	393.9	398.7
167.5°	418.9	414.2	409.1	406.1	403.2	400.2	398.8	399.8	398.8	400.2	403.2
170°	417.6	413.6	409.7	407.4	405.8	403.3	402.6	404.1	402.6	403.3	405.8
172.5°	415.7	413.0	410.3	408.6	407.7	405.3	405.8	406.7	405.8	405.3	407.7
175°	413.6	412.0	410.5	409.7	409.7	408.1	408.9	409.7	408.9	408.1	409.7
177.5°	412.4	411.1	410.5	410.5	410.5	409.2	409.9	411.1	409.9	409.2	410.5
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331629-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	650.9	649.5	647.1	643.5	641.3	637.4	634.9	636.3	636.7	636.3	636.0
5°	633.4	628.5	621.9	615.4	609.5	603.1	599.4	597.8	594.6	592.8	591.8
7.5°	612.2	603.9	594.5	583.3	573.8	563.8	558.8	556.2	549.7	546.1	543.0
10°	596.4	583.3	573.9	559.3	550.3	537.2	528.3	528.6	519.6	514.5	510.9
12.5°	579.0	564.6	549.0	535.7	523.3	512.8	502.0	497.7	488.2	483.3	473.4
15°	550.1	533.3	516.8	499.0	486.4	470.0	454.4	435.4	420.0	406.7	403.0
17.5°	518.6	497.8	481.2	460.2	438.6	411.2	393.1	382.0	372.8	365.8	360.5
20°	496.9	475.7	458.1	426.5	397.3	378.7	365.5	356.9	347.3	339.7	335.6
22.5°	474.1	452.1	428.0	392.6	369.9	355.1	343.3	333.5	326.9	321.0	317.2
25°	441.8	417.7	378.0	353.8	335.4	319.7	311.5	305.6	298.7	290.6	287.0
27.5°	407.7	369.4	340.8	322.8	305.3	295.2	287.7	278.8	272.7	269.0	265.2
30°	382.1	343.9	321.6	301.8	289.5	278.2	269.5	264.5	258.5	252.4	249.8
32.5°	353.8	323.2	301.7	285.4	272.8	263.2	256.3	248.1	243.9	240.0	234.8
35°	318.4	295.2	275.7	262.5	250.4	242.7	234.7	229.8	222.1	218.8	216.8
37.5°	288.5	268.4	253.9	239.8	230.4	221.8	216.8	209.1	205.8	201.3	196.9
40°	271.6	251.9	237.9	226.4	215.8	209.4	203.3	197.0	192.0	190.0	184.7
42.5°	254.4	238.3	224.3	211.8	204.7	197.8	190.1	185.5	180.3	176.9	173.7
45°	230.6	216.3	204.4	194.1	186.2	179.2	174.1	166.5	163.6	156.9	154.1
47.5°	209.6	196.4	185.0	175.2	167.6	163.0	155.6	149.7	144.9	140.8	137.2
50°	194.8	183.7	172.7	164.0	157.1	150.5	142.9	140.0	132.6	130.5	128.5
52.5°	181.2	170.7	160.7	152.1	145.2	138.8	132.1	128.2	123.2	121.2	119.7
55°	162.2	152.1	142.5	134.9	128.1	121.4	117.2	112.4	110.1	108.5	106.6
57.5°	143.1	134.0	126.6	119.0	112.0	106.7	102.0	99.1	96.7	94.6	92.4
60°	131.0	122.3	115.6	108.5	101.4	97.0	93.4	89.9	87.2	83.9	83.0
62.5°	118.2	110.5	104.4	97.5	91.3	87.4	83.8	80.6	77.3	72.6	71.3
65°	100.5	94.5	88.1	82.3	76.9	72.9	67.9	64.2	62.8	62.4	62.2
67.5°	84.5	78.9	73.3	67.5	62.5	58.9	56.2	55.7	54.7	54.5	53.8
70°	73.8	68.6	63.1	57.6	52.7	52.1	51.2	50.2	49.1	48.7	48.2
72.5°	64.3	58.9	53.3	49.0	46.9	46.0	45.1	44.1	43.4	42.9	42.7
75°	49.3	44.2	40.6	39.0	37.9	37.2	35.7	35.1	34.6	33.9	33.7
77.5°	35.5	32.6	31.0	30.0	28.8	28.1	27.3	26.6	26.1	26.0	25.5
80°	27.1	25.7	24.5	23.1	22.7	21.8	21.6	20.9	21.1	20.4	20.4
82.5°	21.0	19.3	18.3	17.7	17.2	16.5	16.3	16.0	16.0	15.5	15.5
85°	10.8	10.3	9.9	9.4	9.4	8.7	9.0	8.7	8.7	8.3	8.1
87.5°	5.4	5.7	6.1	7.2	8.2	8.1	8.0	7.6	7.3	7.6	7.6
90°	9.5	11.8	15.8	21.3	26.1	26.9	26.1	25.2	23.7	25.2	26.1
92.5°	28.4	35.9	53.7	78.8	101.2	102.6	86.6	68.9	59.1	52.4	47.6
95°	58.4	77.4	113.7	182.4	274.0	309.4	270.7	206.8	158.6	125.5	108.2
97.5°	82.9	104.3	150.0	245.7	397.9	528.3	554.2	482.6	394.9	309.4	252.5
100°	98.7	120.8	162.6	258.9	429.4	623.6	737.3	720.7	622.9	514.7	419.2
102.5°	113.2	135.3	174.0	259.5	417.5	626.8	805.5	876.8	854.6	775.5	674.3
105°	134.2	156.3	193.4	263.7	393.9	584.9	795.0	959.2	1048.3	1058.6	1032.6
107.5°	155.0	177.3	213.3	274.6	382.2	540.1	725.6	899.8	1034.1	1116.2	1154.5
110°	169.0	191.9	226.5	283.4	379.7	518.7	682.1	848.6	990.0	1091.0	1155.7



TEST NUMBER: P331629-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	182.2	205.7	239.2	292.9	380.3	504.7	651.8	801.9	937.5	1045.5	1119.7
115°	203.7	225.0	258.9	307.1	383.6	489.5	614.2	744.4	866.0	969.4	1050.7
117.5°	223.6	245.7	277.1	322.2	389.3	482.0	590.5	701.1	807.9	901.7	978.0
120°	236.8	258.9	289.7	332.3	393.1	477.6	577.8	679.6	777.6	861.2	933.1
122.5°	250.0	272.9	301.7	341.2	397.6	475.0	567.1	662.7	752.3	831.5	896.5
125°	269.2	291.2	319.7	355.3	404.1	470.5	551.8	637.8	719.1	788.6	847.8
127.5°	286.1	308.8	336.5	368.3	411.0	467.8	537.6	613.4	686.9	752.5	807.1
130°	296.8	318.9	346.6	376.6	416.1	466.6	528.2	597.5	665.5	727.8	779.9
132.5°	306.9	329.0	355.4	384.8	421.1	466.0	520.6	582.4	645.3	702.6	751.5
135°	320.5	342.6	367.9	395.5	427.1	464.9	510.0	561.3	613.4	665.5	709.6
137.5°	332.5	353.0	378.0	403.7	432.4	464.8	502.5	544.4	587.9	629.3	667.8
140°	339.4	360.0	383.6	408.1	434.9	464.1	498.2	533.6	571.6	607.8	642.6
142.5°	345.8	365.1	388.1	411.9	436.9	464.1	493.7	524.8	557.0	588.2	617.3
145°	356.0	373.3	394.8	416.8	438.9	462.6	487.9	512.3	538.4	562.9	585.7
147.5°	364.6	380.0	400.1	419.5	439.6	459.8	481.9	502.7	523.2	542.3	559.1
150°	370.2	384.5	402.6	420.7	438.9	457.9	476.8	495.7	513.1	529.7	543.9
152.5°	375.9	388.9	405.2	421.4	437.7	454.7	472.4	488.8	504.9	519.0	531.3
155°	383.6	395.5	408.9	422.3	435.8	449.2	464.1	479.2	491.8	503.6	512.3
157.5°	390.3	400.2	411.6	422.3	432.1	443.5	456.5	468.0	478.6	488.5	495.2
160°	394.8	403.3	412.8	422.3	430.2	439.7	450.8	461.0	469.7	478.4	483.9
162.5°	398.5	405.3	413.5	421.7	428.4	436.6	445.7	454.0	461.5	468.9	473.2
165°	402.6	407.4	414.4	420.0	424.7	430.2	437.4	443.6	449.2	454.7	457.9
167.5°	406.1	409.1	414.2	418.9	421.1	424.7	429.1	433.7	438.0	441.7	444.6
170°	407.4	409.7	413.6	417.6	419.2	421.5	424.7	428.7	431.0	434.1	435.8
172.5°	408.6	410.3	413.0	415.7	416.7	417.8	420.3	422.9	424.7	427.3	428.2
175°	409.7	410.5	412.0	413.6	412.8	413.6	414.4	416.8	417.6	418.4	419.2
177.5°	410.5	410.5	411.1	412.4	411.1	410.5	411.1	412.4	412.4	413.0	413.0
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331629-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	634.0	634.3	633.8	634.1	633.8	634.3	634.0	636.0	636.3	636.7	636.3
5°	590.7	587.9	587.4	586.8	587.4	587.9	590.7	591.8	592.8	594.6	597.8
7.5°	539.1	538.7	537.5	535.8	537.5	538.7	539.1	543.0	546.1	549.7	556.2
10°	505.8	504.6	504.4	502.8	504.4	504.6	505.8	510.9	514.5	519.6	528.6
12.5°	466.9	459.5	458.8	454.7	458.8	459.5	466.9	473.4	483.3	488.2	497.7
15°	397.6	396.2	391.5	388.6	391.5	396.2	397.6	403.0	406.7	420.0	435.4
17.5°	357.9	353.4	351.9	351.3	351.9	353.4	357.9	360.5	365.8	372.8	382.0
20°	332.3	328.3	327.6	327.1	327.6	328.3	332.3	335.6	339.7	347.3	356.9
22.5°	314.8	310.4	308.7	307.3	308.7	310.4	314.8	317.2	321.0	326.9	333.5
25°	284.7	283.1	282.2	281.7	282.2	283.1	284.7	287.0	290.6	298.7	305.6
27.5°	261.2	257.6	256.9	255.7	256.9	257.6	261.2	265.2	269.0	272.7	278.8
30°	247.7	246.6	245.0	243.6	245.0	246.6	247.7	249.8	252.4	258.5	264.5
32.5°	232.0	231.0	229.5	228.9	229.5	231.0	232.0	234.8	240.0	243.9	248.1
35°	214.5	211.3	209.8	207.8	209.8	211.3	214.5	216.8	218.8	222.1	229.8
37.5°	196.0	194.3	192.4	193.1	192.4	194.3	196.0	196.9	201.3	205.8	209.1
40°	181.7	180.6	180.1	179.9	180.1	180.6	181.7	184.7	190.0	192.0	197.0
42.5°	170.3	167.1	165.9	165.9	165.9	167.1	170.3	173.7	176.9	180.3	185.5
45°	153.0	150.1	147.9	148.1	147.9	150.1	153.0	154.1	156.9	163.6	166.5
47.5°	135.3	135.2	133.9	134.3	133.9	135.2	135.3	137.2	140.8	144.9	149.7
50°	126.8	125.5	124.5	124.8	124.5	125.5	126.8	128.5	130.5	132.6	140.0
52.5°	118.8	117.5	116.8	117.9	116.8	117.5	118.8	119.7	121.2	123.2	128.2
55°	105.5	104.1	103.9	103.7	103.9	104.1	105.5	106.6	108.5	110.1	112.4
57.5°	90.7	89.8	88.4	87.9	88.4	89.8	90.7	92.4	94.6	96.7	99.1
60°	80.1	78.3	75.9	75.7	75.9	78.3	80.1	83.0	83.9	87.2	89.9
62.5°	70.3	70.0	69.5	69.5	69.5	70.0	70.3	71.3	72.6	77.3	80.6
65°	61.7	61.5	61.7	61.9	61.7	61.5	61.7	62.2	62.4	62.8	64.2
67.5°	53.7	53.3	52.9	53.1	52.9	53.3	53.7	53.8	54.5	54.7	55.7
70°	47.7	47.5	47.3	47.3	47.3	47.5	47.7	48.2	48.7	49.1	50.2
72.5°	41.8	41.8	41.6	41.4	41.6	41.8	41.8	42.7	42.9	43.4	44.1
75°	33.5	33.0	33.0	33.0	33.0	33.0	33.5	33.7	33.9	34.6	35.1
77.5°	25.5	25.2	25.0	24.8	25.0	25.2	25.5	25.5	26.0	26.1	26.6
80°	20.2	20.0	19.7	19.7	19.7	20.0	20.2	20.4	20.4	21.1	20.9
82.5°	15.5	15.1	15.1	14.9	15.1	15.1	15.5	15.5	15.5	16.0	16.0
85°	8.3	8.5	8.3	8.7	8.3	8.5	8.3	8.1	8.3	8.7	8.7
87.5°	7.6	7.4	7.6	7.4	7.6	7.4	7.6	7.6	7.6	7.3	7.6
90°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	25.2	23.7	25.2
92.5°	46.9	44.3	45.0	43.7	45.0	44.3	46.9	47.6	52.4	59.1	68.9
95°	97.9	91.6	89.2	90.0	89.2	91.6	97.9	108.2	125.5	158.6	206.8
97.5°	214.7	195.3	183.8	177.1	183.8	195.3	214.7	252.5	309.4	394.9	482.6
100°	353.7	319.7	296.8	282.6	296.8	319.7	353.7	419.2	514.7	622.9	720.7
102.5°	603.1	545.1	516.5	497.4	516.5	545.1	603.1	674.3	775.5	854.6	876.8
105°	983.6	934.6	900.7	889.7	900.7	934.6	983.6	1032.6	1058.6	1048.3	959.2
107.5°	1160.6	1157.9	1151.1	1136.4	1151.1	1157.9	1160.6	1154.5	1116.2	1034.1	899.8
110°	1189.6	1204.7	1211.7	1210.9	1211.7	1204.7	1189.6	1155.7	1091.0	990.0	848.6



TEST NUMBER: P331629-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1166.9	1192.0	1205.5	1209.7	1205.5	1192.0	1166.9	1119.7	1045.5	937.5	801.9
115°	1106.7	1143.1	1163.6	1170.7	1163.6	1143.1	1106.7	1050.7	969.4	866.0	744.4
117.5°	1035.1	1073.5	1095.1	1101.1	1095.1	1073.5	1035.1	978.0	901.7	807.9	701.1
120°	988.4	1025.4	1048.3	1056.2	1048.3	1025.4	988.4	933.1	861.2	777.6	679.6
122.5°	946.0	982.5	1002.9	1009.5	1002.9	982.5	946.0	896.5	831.5	752.3	662.7
125°	893.6	923.6	943.3	949.7	943.3	923.6	893.6	847.8	788.6	719.1	637.8
127.5°	847.1	875.1	892.2	897.3	892.2	875.1	847.1	807.1	752.5	686.9	613.4
130°	818.6	845.5	861.2	867.6	861.2	845.5	818.6	779.9	727.8	665.5	597.5
132.5°	789.6	816.4	830.9	836.6	830.9	816.4	789.6	751.5	702.6	645.3	582.4
135°	743.7	769.7	783.9	787.1	783.9	769.7	743.7	709.6	665.5	613.4	561.3
137.5°	698.8	721.2	733.7	738.4	733.7	721.2	698.8	667.8	629.3	587.9	544.4
140°	667.8	688.3	700.2	705.0	700.2	688.3	667.8	642.6	607.8	571.6	533.6
142.5°	641.4	659.9	670.6	671.5	670.6	659.9	641.4	617.3	588.2	557.0	524.8
145°	604.7	618.1	626.0	628.3	626.0	618.1	604.7	585.7	562.9	538.4	512.3
147.5°	574.7	585.4	590.8	592.2	590.8	585.4	574.7	559.1	542.3	523.2	502.7
150°	555.7	565.2	570.0	570.8	570.0	565.2	555.7	543.9	529.7	513.1	495.7
152.5°	540.6	548.8	552.3	552.4	552.3	548.8	540.6	531.3	519.0	504.9	488.8
155°	521.0	526.5	529.7	528.2	529.7	526.5	521.0	512.3	503.6	491.8	479.2
157.5°	501.4	506.0	507.5	507.5	507.5	506.0	501.4	495.2	488.5	478.6	468.0
160°	489.5	493.4	494.1	494.1	494.1	493.4	489.5	483.9	478.4	469.7	461.0
162.5°	478.7	481.4	482.2	481.5	482.2	481.4	478.7	473.2	468.9	461.5	454.0
165°	461.0	464.1	464.1	463.4	464.1	464.1	461.0	457.9	454.7	449.2	443.6
167.5°	446.1	447.8	447.6	446.7	447.6	447.8	446.1	444.6	441.7	438.0	433.7
170°	436.6	438.9	438.1	436.6	438.1	438.9	436.6	435.8	434.1	431.0	428.7
172.5°	429.0	430.1	429.3	428.4	429.3	430.1	429.0	428.2	427.3	424.7	422.9
175°	419.2	420.0	419.2	417.6	419.2	420.0	419.2	419.2	418.4	417.6	416.8
177.5°	413.0	413.0	412.4	411.1	412.4	413.0	413.0	413.0	413.0	412.4	412.4
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331629-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	634.9	637.4	641.3	643.5	647.1	649.5	650.9	653.2	654.5	659.1	663.9
5°	599.4	603.1	609.5	615.4	621.9	628.5	633.4	638.8	643.9	652.6	661.8
7.5°	558.8	563.8	573.8	583.3	594.5	603.9	612.2	621.6	630.0	642.5	655.5
10°	528.3	537.2	550.3	559.3	573.9	583.3	596.4	606.7	618.4	635.0	649.6
12.5°	502.0	512.8	523.3	535.7	549.0	564.6	579.0	592.3	606.1	623.2	640.5
15°	454.4	470.0	486.4	499.0	516.8	533.3	550.1	567.9	584.9	605.4	627.8
17.5°	393.1	411.2	438.6	460.2	481.2	497.8	518.6	540.2	560.2	584.8	609.9
20°	365.5	378.7	397.3	426.5	458.1	475.7	496.9	520.7	543.6	570.5	597.3
22.5°	343.3	355.1	369.9	392.6	428.0	452.1	474.1	498.4	524.9	552.3	582.1
25°	311.5	319.7	335.4	353.8	378.0	417.7	441.8	466.2	495.0	524.4	558.4
27.5°	287.7	295.2	305.3	322.8	340.8	369.4	407.7	434.2	463.0	496.0	531.3
30°	269.5	278.2	289.5	301.8	321.6	343.9	382.1	412.9	441.3	475.3	512.9
32.5°	256.3	263.2	272.8	285.4	301.7	323.2	353.8	391.0	418.8	454.5	493.8
35°	234.7	242.7	250.4	262.5	275.7	295.2	318.4	358.3	385.9	421.1	460.6
37.5°	216.8	221.8	230.4	239.8	253.9	268.4	288.5	324.3	354.1	388.7	429.1
40°	203.3	209.4	215.8	226.4	237.9	251.9	271.6	298.2	332.3	366.4	405.8
42.5°	190.1	197.8	204.7	211.8	224.3	238.3	254.4	276.9	311.8	344.0	382.3
45°	174.1	179.2	186.2	194.1	204.4	216.3	230.6	250.2	283.8	311.5	347.5
47.5°	155.6	163.0	167.6	175.2	185.0	196.4	209.6	226.7	253.8	279.8	313.3
50°	142.9	150.5	157.1	164.0	172.7	183.7	194.8	211.3	233.1	260.3	291.5
52.5°	132.1	138.8	145.2	152.1	160.7	170.7	181.2	195.7	214.3	239.4	269.7
55°	117.2	121.4	128.1	134.9	142.5	152.1	162.2	174.3	190.4	211.5	236.0
57.5°	102.0	106.7	112.0	119.0	126.6	134.0	143.1	154.1	166.7	185.8	206.8
60°	93.4	97.0	101.4	108.5	115.6	122.3	131.0	140.2	152.1	168.6	186.5
62.5°	83.8	87.4	91.3	97.5	104.4	110.5	118.2	127.8	137.9	153.0	168.6
65°	67.9	72.9	76.9	82.3	88.1	94.5	100.5	108.3	117.2	129.2	143.1
67.5°	56.2	58.9	62.5	67.5	73.3	78.9	84.5	90.6	98.4	107.6	118.7
70°	51.2	52.1	52.7	57.6	63.1	68.6	73.8	79.6	86.2	93.8	103.4
72.5°	45.1	46.0	46.9	49.0	53.3	58.9	64.3	68.6	74.8	81.2	89.0
75°	35.7	37.2	37.9	39.0	40.6	44.2	49.3	53.4	57.2	61.9	68.2
77.5°	27.3	28.1	28.8	30.0	31.0	32.6	35.5	39.2	42.7	45.4	49.7
80°	21.6	21.8	22.7	23.1	24.5	25.7	27.1	30.1	33.5	34.6	37.7
82.5°	16.3	16.5	17.2	17.7	18.3	19.3	21.0	21.8	24.5	26.1	27.9
85°	9.0	8.7	9.4	9.4	9.9	10.3	10.8	11.9	12.6	14.4	14.9
87.5°	8.0	8.1	8.2	7.2	6.1	5.7	5.4	5.3	5.3	5.3	5.5
90°	26.1	26.9	26.1	21.3	15.8	11.8	9.5	7.9	6.4	3.1	0.8
92.5°	86.6	102.6	101.2	78.8	53.7	35.9	28.4	23.0	19.6	13.9	9.6
95°	270.7	309.4	274.0	182.4	113.7	77.4	58.4	45.7	38.7	30.8	27.7
97.5°	554.2	528.3	397.9	245.7	150.0	104.3	82.9	68.4	57.7	49.3	45.0
100°	737.3	623.6	429.4	258.9	162.6	120.8	98.7	82.9	70.3	63.1	60.8
102.5°	805.5	626.8	417.5	259.5	174.0	135.3	113.2	96.7	84.1	77.1	75.3
105°	795.0	584.9	393.9	263.7	193.4	156.3	134.2	116.8	105.0	99.5	96.3
107.5°	725.6	540.1	382.2	274.6	213.3	177.3	155.0	137.8	126.9	121.6	119.1
110°	682.1	518.7	379.7	283.4	226.5	191.9	169.0	152.4	142.1	137.3	134.2



TEST NUMBER: P331629-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	651.8	504.7	380.3	292.9	239.2	205.7	182.2	166.2	156.6	151.3	148.0
115°	614.2	489.5	383.6	307.1	258.9	225.0	203.7	187.8	178.4	173.7	169.8
117.5°	590.5	482.0	389.3	322.2	277.1	245.7	223.6	208.4	200.1	195.3	192.2
120°	577.8	477.6	393.1	332.3	289.7	258.9	236.8	221.1	213.9	209.2	206.0
122.5°	567.1	475.0	397.6	341.2	301.7	272.9	250.0	234.3	226.5	221.9	219.3
125°	551.8	470.5	404.1	355.3	319.7	291.2	269.2	253.4	243.9	239.2	236.8
127.5°	537.6	467.8	411.0	368.3	336.5	308.8	286.1	270.9	260.5	253.9	250.7
130°	528.2	466.6	416.1	376.6	346.6	318.9	296.8	281.0	269.9	262.1	258.9
132.5°	520.6	466.0	421.1	384.8	355.4	329.0	306.9	290.5	278.8	270.3	266.5
135°	510.0	464.9	427.1	395.5	367.9	342.6	320.5	302.4	290.5	281.0	277.9
137.5°	502.5	464.8	432.4	403.7	378.0	353.0	332.5	314.5	301.8	292.4	288.6
140°	498.2	464.1	434.9	408.1	383.6	360.0	339.4	322.0	309.4	299.9	296.8
142.5°	493.7	464.1	436.9	411.9	388.1	365.1	345.8	329.0	316.4	307.6	305.0
145°	487.9	462.6	438.9	416.8	394.8	373.3	356.0	340.2	328.4	320.5	317.3
147.5°	481.9	459.8	439.6	419.5	400.1	380.0	364.6	351.4	340.5	333.0	330.6
150°	476.8	457.9	438.9	420.7	402.6	384.5	370.2	358.4	348.1	341.8	339.4
152.5°	472.4	454.7	437.7	421.4	405.2	388.9	375.9	364.7	355.7	349.4	348.3
155°	464.1	449.2	435.8	422.3	408.9	395.5	383.6	375.0	366.3	361.5	360.7
157.5°	456.5	443.5	432.1	422.3	411.6	400.2	390.3	383.3	375.8	371.9	371.2
160°	450.8	439.7	430.2	422.3	412.8	403.3	394.8	388.4	382.0	378.9	378.1
162.5°	445.7	436.6	428.4	421.7	413.5	405.3	398.5	392.8	387.8	384.6	385.1
165°	437.4	430.2	424.7	420.0	414.4	407.4	402.6	398.7	393.9	392.3	393.1
167.5°	429.1	424.7	421.1	418.9	414.2	409.1	406.1	403.2	400.2	398.8	399.8
170°	424.7	421.5	419.2	417.6	413.6	409.7	407.4	405.8	403.3	402.6	404.1
172.5°	420.3	417.8	416.7	415.7	413.0	410.3	408.6	407.7	405.3	405.8	406.7
175°	414.4	413.6	412.8	413.6	412.0	410.5	409.7	409.7	408.1	408.9	409.7
177.5°	411.1	410.5	411.1	412.4	411.1	410.5	410.5	410.5	409.2	409.9	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331629-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	664.1	664.6	668.2	669.9	673.2	674.5	676.0	675.6	675.6	676.3	681.5
5°	665.5	670.0	676.9	683.6	690.0	695.5	699.2	702.9	704.3	710.8	716.8
7.5°	663.1	671.6	682.9	693.1	705.2	714.7	722.6	729.7	734.6	744.3	754.2
10°	659.9	671.9	684.7	697.8	714.6	727.2	740.0	749.9	753.1	767.5	775.8
12.5°	653.7	669.6	686.0	703.0	719.3	736.7	750.8	760.7	772.0	785.0	800.2
15°	644.4	662.7	684.1	705.8	729.2	750.3	765.5	782.6	795.1	809.3	822.6
17.5°	631.0	654.6	681.7	706.9	734.0	756.6	777.5	794.0	802.6	810.8	812.7
20°	620.3	645.7	677.6	707.4	734.5	760.6	781.3	795.1	797.4	797.6	785.5
22.5°	608.7	637.5	670.9	701.4	733.8	762.9	778.9	784.8	775.7	760.1	736.6
25°	587.4	620.8	659.5	694.4	729.7	757.2	762.8	752.5	720.5	687.0	644.6
27.5°	564.4	601.9	643.4	682.2	719.8	736.9	725.0	687.7	630.4	580.4	519.9
30°	547.5	589.6	630.4	673.7	708.6	715.9	688.6	633.8	566.8	491.6	431.2
32.5°	528.3	572.3	617.1	662.0	691.2	684.0	638.9	571.4	492.9	418.9	361.9
35°	500.8	546.1	594.6	639.5	658.1	627.1	559.7	471.8	391.5	322.6	283.3
37.5°	469.0	518.5	568.8	610.1	608.7	557.1	465.2	374.6	307.1	266.2	238.3
40°	446.4	496.4	550.8	585.6	570.8	503.5	403.9	318.4	269.0	236.5	216.1
42.5°	424.7	474.9	529.0	556.6	530.7	448.1	348.9	281.9	241.2	215.8	199.2
45°	387.9	440.9	490.9	506.2	459.9	368.9	282.2	233.5	206.4	187.6	176.2
47.5°	351.8	404.0	449.7	449.9	387.3	299.1	238.0	202.1	178.9	164.4	156.1
50°	329.8	379.4	417.7	411.7	340.6	266.1	212.9	181.9	162.7	151.4	142.7
52.5°	305.1	353.1	386.4	369.4	301.1	234.2	190.3	164.3	148.3	138.6	130.8
55°	269.0	311.7	335.2	309.4	245.7	194.8	160.8	140.4	128.5	120.2	113.5
57.5°	233.7	268.9	283.6	253.7	202.4	161.5	136.0	120.7	108.9	102.9	99.5
60°	211.5	241.6	251.9	218.8	175.9	141.3	120.5	106.2	97.5	93.6	90.2
62.5°	189.7	214.2	218.4	188.2	153.4	123.7	105.7	93.7	88.0	84.2	81.0
65°	157.3	175.0	173.0	148.7	121.4	98.2	85.1	77.8	73.4	68.2	62.4
67.5°	129.6	140.4	133.8	115.6	92.6	76.3	67.8	62.2	56.8	51.8	50.5
70°	111.9	118.2	111.3	94.5	75.9	64.0	57.2	50.5	47.3	46.2	44.0
72.5°	95.0	97.3	89.8	75.4	61.8	53.0	46.3	42.6	40.8	39.9	38.6
75°	71.3	69.8	63.3	52.1	42.9	37.0	34.8	33.5	32.3	31.4	30.7
77.5°	50.1	47.8	42.0	34.6	29.9	27.1	25.8	25.0	24.5	24.0	23.3
80°	37.7	36.1	30.3	24.7	22.7	21.3	20.6	19.7	19.7	19.3	18.6
82.5°	27.6	25.8	20.7	18.2	17.1	16.2	15.7	15.1	14.9	15.0	14.5
85°	14.4	11.7	10.3	9.9	9.2	8.7	9.0	8.5	8.5	8.5	8.3
87.5°	5.0	4.7	4.8	5.0	5.7	6.5	7.4	8.3	8.7	8.3	8.4
90°	3.1	6.4	7.9	9.5	11.8	15.8	21.3	26.1	26.9	26.1	25.2
92.5°	13.9	19.6	23.0	28.4	35.9	53.7	78.8	101.2	102.6	86.6	68.9
95°	30.8	38.7	45.7	58.4	77.4	113.7	182.4	274.0	309.4	270.7	206.8
97.5°	49.3	57.7	68.4	82.9	104.3	150.0	245.7	397.9	528.3	554.2	482.6
100°	63.1	70.3	82.9	98.7	120.8	162.6	258.9	429.4	623.6	737.3	720.7
102.5°	77.1	84.1	96.7	113.2	135.3	174.0	259.5	417.5	626.8	805.5	876.8
105°	99.5	105.0	116.8	134.2	156.3	193.4	263.7	393.9	584.9	795.0	959.2
107.5°	121.6	126.9	137.8	155.0	177.3	213.3	274.6	382.2	540.1	725.6	899.8
110°	137.3	142.1	152.4	169.0	191.9	226.5	283.4	379.7	518.7	682.1	848.6



TEST NUMBER: P331629-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	151.3	156.6	166.2	182.2	205.7	239.2	292.9	380.3	504.7	651.8	801.9
115°	173.7	178.4	187.8	203.7	225.0	258.9	307.1	383.6	489.5	614.2	744.4
117.5°	195.3	200.1	208.4	223.6	245.7	277.1	322.2	389.3	482.0	590.5	701.1
120°	209.2	213.9	221.1	236.8	258.9	289.7	332.3	393.1	477.6	577.8	679.6
122.5°	221.9	226.5	234.3	250.0	272.9	301.7	341.2	397.6	475.0	567.1	662.7
125°	239.2	243.9	253.4	269.2	291.2	319.7	355.3	404.1	470.5	551.8	637.8
127.5°	253.9	260.5	270.9	286.1	308.8	336.5	368.3	411.0	467.8	537.6	613.4
130°	262.1	269.9	281.0	296.8	318.9	346.6	376.6	416.1	466.6	528.2	597.5
132.5°	270.3	278.8	290.5	306.9	329.0	355.4	384.8	421.1	466.0	520.6	582.4
135°	281.0	290.5	302.4	320.5	342.6	367.9	395.5	427.1	464.9	510.0	561.3
137.5°	292.4	301.8	314.5	332.5	353.0	378.0	403.7	432.4	464.8	502.5	544.4
140°	299.9	309.4	322.0	339.4	360.0	383.6	408.1	434.9	464.1	498.2	533.6
142.5°	307.6	316.4	329.0	345.8	365.1	388.1	411.9	436.9	464.1	493.7	524.8
145°	320.5	328.4	340.2	356.0	373.3	394.8	416.8	438.9	462.6	487.9	512.3
147.5°	333.0	340.5	351.4	364.6	380.0	400.1	419.5	439.6	459.8	481.9	502.7
150°	341.8	348.1	358.4	370.2	384.5	402.6	420.7	438.9	457.9	476.8	495.7
152.5°	349.4	355.7	364.7	375.9	388.9	405.2	421.4	437.7	454.7	472.4	488.8
155°	361.5	366.3	375.0	383.6	395.5	408.9	422.3	435.8	449.2	464.1	479.2
157.5°	371.9	375.8	383.3	390.3	400.2	411.6	422.3	432.1	443.5	456.5	468.0
160°	378.9	382.0	388.4	394.8	403.3	412.8	422.3	430.2	439.7	450.8	461.0
162.5°	384.6	387.8	392.8	398.5	405.3	413.5	421.7	428.4	436.6	445.7	454.0
165°	392.3	393.9	398.7	402.6	407.4	414.4	420.0	424.7	430.2	437.4	443.6
167.5°	398.8	400.2	403.2	406.1	409.1	414.2	418.9	421.1	424.7	429.1	433.7
170°	402.6	403.3	405.8	407.4	409.7	413.6	417.6	419.2	421.5	424.7	428.7
172.5°	405.8	405.3	407.7	408.6	410.3	413.0	415.7	416.7	417.8	420.3	422.9
175°	408.9	408.1	409.7	409.7	410.5	412.0	413.6	412.8	413.6	414.4	416.8
177.5°	409.9	409.2	410.5	410.5	410.5	411.1	412.4	411.1	410.5	411.1	412.4
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	683.3	685.7	686.8	686.8	688.1	687.5	687.0
5°	722.6	726.9	727.9	732.0	735.0	734.1	734.5
7.5°	761.6	768.6	775.6	778.7	779.2	781.0	781.7
10°	785.7	791.4	802.1	800.6	808.6	813.2	805.7
12.5°	808.8	816.6	824.0	826.1	830.6	832.1	829.1
15°	829.7	833.8	834.2	833.1	834.6	833.3	829.0
17.5°	810.2	803.4	789.9	783.5	778.4	770.8	767.8
20°	777.9	758.1	735.2	726.0	715.3	694.2	699.2
22.5°	708.1	685.7	662.7	635.9	623.1	603.1	601.9
25°	599.7	560.9	518.2	488.4	470.9	451.0	442.2
27.5°	466.3	417.4	382.4	364.8	348.6	332.9	332.1
30°	378.5	341.8	314.8	299.6	289.7	283.1	284.5
32.5°	319.0	293.9	275.6	263.1	255.8	250.7	250.6
35°	260.8	243.6	231.9	226.6	221.4	217.7	217.9
37.5°	223.2	212.9	206.3	200.6	197.2	195.4	194.4
40°	203.9	195.4	190.4	186.9	184.2	181.7	181.2
42.5°	188.7	181.7	176.6	173.9	171.4	169.6	169.2
45°	167.4	161.7	157.1	154.1	153.0	151.4	151.4
47.5°	149.0	143.3	139.8	137.8	135.9	134.8	134.8
50°	136.5	132.1	129.0	127.7	126.1	125.5	125.2
52.5°	125.3	122.0	119.8	119.0	118.3	117.4	117.5
55°	110.1	108.3	107.3	106.6	105.5	104.1	105.0
57.5°	97.4	95.7	93.3	91.1	90.1	89.1	89.5
60°	88.4	85.1	81.9	79.4	78.7	76.6	76.6
62.5°	77.0	72.4	68.5	67.1	66.3	65.4	65.2
65°	59.2	57.4	56.5	55.5	55.0	55.0	54.6
67.5°	49.1	48.3	47.3	47.1	46.7	46.5	46.4
70°	43.3	42.4	42.0	41.7	41.3	41.5	40.8
72.5°	37.9	37.2	37.1	36.5	36.2	36.2	35.6
75°	29.8	29.8	29.6	29.4	28.9	28.7	28.9
77.5°	22.9	23.0	22.6	22.5	22.5	22.5	22.3
80°	18.4	18.6	18.4	18.1	17.9	18.1	17.9
82.5°	14.5	14.1	14.1	14.0	14.0	13.9	13.8
85°	8.3	8.5	8.3	8.1	8.1	8.1	8.3
87.5°	7.9	8.2	8.3	8.3	8.3	8.3	8.2
90°	23.7	25.2	26.1	26.1	26.1	26.1	26.1
92.5°	59.1	52.4	47.6	46.9	44.3	45.0	43.7
95°	158.6	125.5	108.2	97.9	91.6	89.2	90.0
97.5°	394.9	309.4	252.5	214.7	195.3	183.8	177.1
100°	622.9	514.7	419.2	353.7	319.7	296.8	282.6
102.5°	854.6	775.5	674.3	603.1	545.1	516.5	497.4
105°	1048.3	1058.6	1032.6	983.6	934.6	900.7	889.7
107.5°	1034.1	1116.2	1154.5	1160.6	1157.9	1151.1	1136.4
110°	990.0	1091.0	1155.7	1189.6	1204.7	1211.7	1210.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	937.5	1045.5	1119.7	1166.9	1192.0	1205.5	1209.7
115°	866.0	969.4	1050.7	1106.7	1143.1	1163.6	1170.7
117.5°	807.9	901.7	978.0	1035.1	1073.5	1095.1	1101.1
120°	777.6	861.2	933.1	988.4	1025.4	1048.3	1056.2
122.5°	752.3	831.5	896.5	946.0	982.5	1002.9	1009.5
125°	719.1	788.6	847.8	893.6	923.6	943.3	949.7
127.5°	686.9	752.5	807.1	847.1	875.1	892.2	897.3
130°	665.5	727.8	779.9	818.6	845.5	861.2	867.6
132.5°	645.3	702.6	751.5	789.6	816.4	830.9	836.6
135°	613.4	665.5	709.6	743.7	769.7	783.9	787.1
137.5°	587.9	629.3	667.8	698.8	721.2	733.7	738.4
140°	571.6	607.8	642.6	667.8	688.3	700.2	705.0
142.5°	557.0	588.2	617.3	641.4	659.9	670.6	671.5
145°	538.4	562.9	585.7	604.7	618.1	626.0	628.3
147.5°	523.2	542.3	559.1	574.7	585.4	590.8	592.2
150°	513.1	529.7	543.9	555.7	565.2	570.0	570.8
152.5°	504.9	519.0	531.3	540.6	548.8	552.3	552.4
155°	491.8	503.6	512.3	521.0	526.5	529.7	528.2
157.5°	478.6	488.5	495.2	501.4	506.0	507.5	507.5
160°	469.7	478.4	483.9	489.5	493.4	494.1	494.1
162.5°	461.5	468.9	473.2	478.7	481.4	482.2	481.5
165°	449.2	454.7	457.9	461.0	464.1	464.1	463.4
167.5°	438.0	441.7	444.6	446.1	447.8	447.6	446.7
170°	431.0	434.1	435.8	436.6	438.9	438.1	436.6
172.5°	424.7	427.3	428.2	429.0	430.1	429.3	428.4
175°	417.6	418.4	419.2	419.2	420.0	419.2	417.6
177.5°	412.4	413.0	413.0	413.0	413.0	412.4	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5

(END OF REPORT)