

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: P331628-840

Luminaire Tested: **SA2XXRDIP-C290D725U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331628-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 725 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

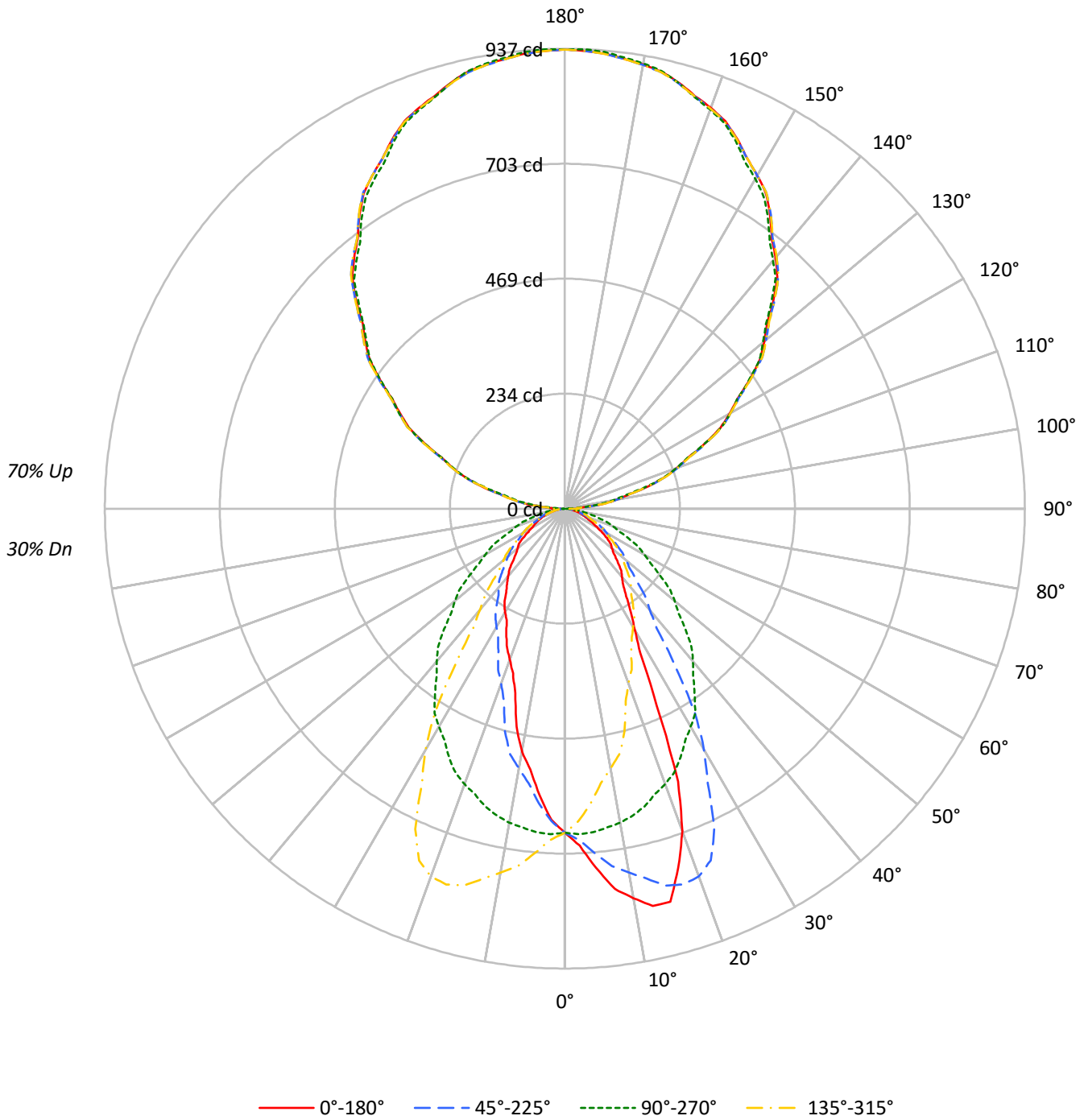
Lumens per Lamp: N/A
Luminaire Lumens: 3760.2 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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	92	92	92	92	72	72	72	55	55	55	38	38	38	30				
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	34	34	33	27				
2	86	79	73	68	77	71	66	62	57	53	51	43	41	39	31	30	29	23				
3	79	70	63	58	70	63	57	53	50	46	43	39	36	34	28	26	25	20				
4	72	62	55	49	65	56	50	45	45	41	37	35	32	29	25	23	22	18				
5	66	55	48	42	59	50	44	39	41	36	32	31	28	26	23	21	19	16				
6	61	50	42	37	55	45	39	34	37	32	28	29	25	23	21	19	17	14				
7	57	45	38	32	51	41	35	30	33	29	25	26	23	20	19	17	16	13				
8	53	41	34	29	47	37	31	27	30	26	22	24	21	18	18	16	14	12				
9	49	37	30	26	44	34	28	24	28	23	20	22	19	17	17	15	13	11				
10	46	34	28	23	41	31	25	21	26	21	18	20	17	15	15	13	12	10				

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	1.7
10°-20°	174.4	4.6
20°-30°	224.7	6.0
30°-40°	213.5	5.7
40°-50°	182.9	4.9
50°-60°	139.3	3.7
60°-70°	88.1	2.3
70°-80°	44.0	1.2
80°-90°	15.2	0.4
90°-100°	59.3	1.6
100°-110°	184.1	4.9
110°-120°	314.7	8.4
120°-130°	413.8	11.0
130°-140°	464.4	12.4
140°-150°	455.4	12.1
150°-160°	382.0	10.2
160°-170°	253.3	6.7
170°-180°	88.5	2.4
0°-30°	461.7	12.3
0°-40°	675.2	18.0
0°-60°	997.5	26.5
0°-90°	1144.7	30.4
90°-120°	558.0	14.8
90°-150°	1891.7	50.3
90°-180°	2616.0	69.6
0°-180°	3760.2	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°	27	1	27	1	27	12
95°	49	41	49	41	49	55
105°	175	170	175	170	175	184
115°	316	316	316	316	316	312
125°	461	459	461	459	461	411
135°	602	594	602	594	602	463
145°	729	721	729	721	729	455
155°	831	825	831	825	831	383
165°	898	898	898	898	898	253
175°	931	934	931	934	931	88
180°	935	935	935	935	935	



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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°	8.3	8.5	8.4	8.4	8.4	8.4	8.5	8.7	8.6	8.8	7.9
90°	26.9	26.7	26.5	26.4	26.2	26.3	26.6	27.0	27.3	27.7	23.7
92.5°	25.5	25.5	25.5	25.4	25.4	25.3	25.3	25.2	25.1	25.1	24.2
95°	49.0	49.3	49.7	50.0	50.4	50.5	50.5	50.5	50.5	50.5	50.2
97.5°	84.7	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.2
100°	108.2	108.4	108.5	108.7	108.9	109.0	109.0	109.0	109.0	109.0	108.4
102.5°	134.6	134.8	135.0	135.2	135.3	135.4	135.2	135.1	134.9	134.8	134.1
105°	175.2	175.2	175.2	175.2	175.2	175.1	174.7	174.4	174.0	173.7	173.3
107.5°	213.5	214.3	215.1	215.9	216.7	217.0	216.8	216.7	216.6	216.4	216.4
110°	243.1	243.7	244.2	244.7	245.2	245.5	245.5	245.5	245.5	245.5	245.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	271.6	272.0	272.3	272.7	273.1	273.5	273.9	274.3	274.8	275.2	275.3
115°	315.8	316.3	316.8	317.3	317.8	318.2	318.4	318.5	318.7	318.9	319.2
117.5°	357.9	358.4	358.9	359.5	360.0	360.4	360.9	361.3	361.7	362.1	363.1
120°	387.6	388.1	388.6	389.1	389.7	389.9	389.9	389.9	389.9	389.9	391.3
122.5°	416.7	417.0	417.4	417.8	418.2	418.6	419.0	419.4	419.8	420.2	421.2
125°	461.0	461.2	461.3	461.5	461.7	462.0	462.5	463.1	463.6	464.1	464.6
127.5°	501.4	502.0	502.5	503.1	503.6	504.2	504.8	505.5	506.1	506.8	507.4
130°	530.5	531.2	531.9	532.5	533.2	533.8	534.1	534.5	534.8	535.2	535.5
132.5°	558.3	558.8	559.4	559.9	560.5	561.2	561.9	562.7	563.5	564.2	564.1
135°	601.5	602.0	602.6	603.1	603.6	603.9	604.1	604.3	604.5	604.6	604.3
137.5°	640.7	641.4	642.1	642.8	643.5	643.9	644.0	644.2	644.3	644.4	644.0
140°	667.8	668.5	669.2	669.9	670.6	671.0	671.0	671.0	671.0	671.0	670.0
142.5°	692.5	693.2	693.8	694.5	695.2	695.5	695.4	695.2	695.1	695.0	694.4
145°	729.3	730.0	730.7	731.4	732.2	732.5	732.3	732.1	732.0	731.7	730.6
147.5°	762.3	763.1	763.7	764.4	765.1	765.2	764.8	764.4	764.0	763.7	763.0
150°	783.9	784.4	784.9	785.4	786.0	786.0	785.4	784.9	784.4	783.9	783.2
152.5°	804.1	804.7	805.4	806.1	806.7	806.7	806.1	805.4	804.7	804.1	803.1
155°	831.2	831.7	832.2	832.7	833.3	833.1	832.2	831.3	830.5	829.6	829.1
157.5°	854.5	855.4	856.3	857.1	857.9	857.8	856.6	855.4	854.1	852.9	852.6
160°	869.1	869.8	870.5	871.2	871.9	871.7	870.7	869.6	868.6	867.5	867.4
162.5°	881.7	882.5	883.4	884.2	885.0	884.9	883.7	882.5	881.3	880.1	880.0
165°	898.3	899.2	900.0	900.9	901.8	901.6	900.4	899.2	898.0	896.7	896.7
167.5°	911.9	912.8	913.7	914.6	915.5	915.3	914.1	912.9	911.7	910.4	910.5
170°	918.8	919.9	920.9	922.0	923.0	922.9	921.7	920.5	919.3	918.0	918.2
172.5°	924.5	925.5	926.6	927.7	928.7	928.6	927.4	926.1	924.9	923.7	923.9
175°	930.7	931.7	932.7	933.8	934.8	934.7	933.5	932.3	931.1	929.9	930.2
177.5°	933.5	934.3	935.1	936.0	936.9	936.9	936.0	935.1	934.3	933.5	933.7
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3



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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°	7.1	6.5	5.8	4.9	4.7	4.4	4.9	5.5	5.2	5.0	5.0
90°	19.9	16.1	12.2	9.2	7.1	5.0	2.9	0.8	2.9	5.0	7.1
92.5°	23.2	22.3	21.4	20.2	18.7	17.2	15.6	14.0	15.6	17.2	18.7
95°	49.8	49.5	49.1	48.1	46.4	44.5	42.8	41.0	42.8	44.5	46.4
97.5°	83.6	82.9	82.3	81.2	79.6	78.1	76.5	75.0	76.5	78.1	79.6
100°	107.9	107.3	106.8	105.8	104.4	103.0	101.7	100.3	101.7	103.0	104.4
102.5°	133.5	132.8	132.2	131.3	130.2	129.1	127.8	126.7	127.8	129.1	130.2
105°	173.0	172.6	172.3	171.8	171.3	170.8	170.3	169.8	170.3	170.8	171.3
107.5°	216.4	216.4	216.4	216.0	215.3	214.5	213.8	213.0	213.8	214.5	215.3
110°	245.5	245.5	245.5	245.0	243.9	242.9	241.8	240.8	241.8	242.9	243.9



TEST NUMBER: P331628-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	275.5	275.6	275.7	275.3	274.2	273.2	272.2	271.0	272.2	273.2	274.2
115°	319.6	319.9	320.3	319.9	318.9	317.8	316.8	315.8	316.8	317.8	318.9
117.5°	364.2	365.1	366.1	365.9	364.5	363.0	361.6	360.2	361.6	363.0	364.5
120°	392.7	394.2	395.6	395.6	394.2	392.7	391.3	389.9	391.3	392.7	394.2
122.5°	422.2	423.2	424.1	423.8	422.1	420.5	418.8	417.1	418.8	420.5	422.1
125°	465.1	465.7	466.3	465.7	464.1	462.5	461.0	459.4	461.0	462.5	464.1
127.5°	508.1	508.7	509.3	508.6	506.6	504.6	502.6	500.6	502.6	504.6	506.6
130°	535.8	536.2	536.5	535.6	533.3	531.1	528.8	526.5	528.8	531.1	533.3
132.5°	564.1	564.0	563.9	563.0	561.1	559.3	557.4	555.5	557.4	559.3	561.1
135°	603.9	603.6	603.2	602.1	600.2	598.2	596.3	594.4	596.3	598.2	600.2
137.5°	643.5	643.1	642.6	641.6	640.1	638.4	636.8	635.3	636.8	638.4	640.1
140°	669.2	668.3	667.4	666.2	664.6	663.1	661.5	659.9	661.5	663.1	664.6
142.5°	693.8	693.2	692.6	691.5	689.9	688.3	686.7	685.2	686.7	688.3	689.9
145°	729.6	728.6	727.5	726.4	725.2	724.0	722.7	721.4	722.7	724.0	725.2
147.5°	762.2	761.5	760.8	759.7	758.2	756.8	755.3	753.9	755.3	756.8	758.2
150°	782.4	781.7	781.0	780.1	779.1	778.0	777.0	776.0	777.0	778.0	779.1
152.5°	802.3	801.5	800.6	799.7	798.7	797.6	796.6	795.5	796.6	797.6	798.7
155°	828.6	828.0	827.5	827.0	826.5	826.0	825.4	824.9	825.4	826.0	826.5
157.5°	852.3	852.0	851.7	851.4	851.0	850.7	850.3	850.0	850.3	850.7	851.0
160°	867.2	867.0	866.8	866.6	866.2	865.9	865.5	865.2	865.5	865.9	866.2
162.5°	879.8	879.6	879.4	879.3	879.2	879.2	879.1	879.0	879.1	879.2	879.2
165°	896.7	896.7	896.7	896.8	897.0	897.2	897.4	897.5	897.4	897.2	897.0
167.5°	910.5	910.6	910.6	910.9	911.4	911.9	912.4	912.9	912.4	911.9	911.4
170°	918.4	918.6	918.7	919.1	919.6	920.1	920.7	921.2	920.7	920.1	919.6
172.5°	924.0	924.2	924.4	924.7	925.2	925.8	926.3	926.9	926.3	925.8	925.2
175°	930.6	930.9	931.3	931.7	932.2	932.7	933.3	933.8	933.3	932.7	932.2
177.5°	934.0	934.3	934.6	934.9	935.3	935.8	936.2	936.6	936.2	935.8	935.3
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3



TEST NUMBER: P331628-840

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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	5.8	6.2	7.0	7.7	8.3	8.2	8.0	7.9	7.8	7.6
90°	9.2	12.2	16.1	19.9	23.7	27.7	27.3	27.0	26.6	26.3	26.2
92.5°	20.2	21.4	22.3	23.2	24.2	25.1	25.1	25.2	25.3	25.3	25.4
95°	48.1	49.1	49.5	49.8	50.2	50.5	50.5	50.5	50.5	50.5	50.4
97.5°	81.2	82.3	82.9	83.6	84.2	84.9	84.9	84.9	84.9	84.9	84.9
100°	105.8	106.8	107.3	107.9	108.4	109.0	109.0	109.0	109.0	109.0	108.9
102.5°	131.3	132.2	132.8	133.5	134.1	134.8	134.9	135.1	135.2	135.4	135.3
105°	171.8	172.3	172.6	173.0	173.3	173.7	174.0	174.4	174.7	175.1	175.2
107.5°	216.0	216.4	216.4	216.4	216.4	216.4	216.6	216.7	216.8	217.0	216.7
110°	245.0	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	275.3	275.7	275.6	275.5	275.3	275.2	274.8	274.3	273.9	273.5	273.1
115°	319.9	320.3	319.9	319.6	319.2	318.9	318.7	318.5	318.4	318.2	317.8
117.5°	365.9	366.1	365.1	364.2	363.1	362.1	361.7	361.3	360.9	360.4	360.0
120°	395.6	395.6	394.2	392.7	391.3	389.9	389.9	389.9	389.9	389.9	389.7
122.5°	423.8	424.1	423.2	422.2	421.2	420.2	419.8	419.4	419.0	418.6	418.2
125°	465.7	466.3	465.7	465.1	464.6	464.1	463.6	463.1	462.5	462.0	461.7
127.5°	508.6	509.3	508.7	508.1	507.4	506.8	506.1	505.5	504.8	504.2	503.6
130°	535.6	536.5	536.2	535.8	535.5	535.2	534.8	534.5	534.1	533.8	533.2
132.5°	563.0	563.9	564.0	564.1	564.1	564.2	563.5	562.7	561.9	561.2	560.5
135°	602.1	603.2	603.6	603.9	604.3	604.6	604.5	604.3	604.1	603.9	603.6
137.5°	641.6	642.6	643.1	643.5	644.0	644.4	644.3	644.2	644.0	643.9	643.5
140°	666.2	667.4	668.3	669.2	670.0	671.0	671.0	671.0	671.0	671.0	670.6
142.5°	691.5	692.6	693.2	693.8	694.4	695.0	695.1	695.2	695.4	695.5	695.2
145°	726.4	727.5	728.6	729.6	730.6	731.7	732.0	732.1	732.3	732.5	732.2
147.5°	759.7	760.8	761.5	762.2	763.0	763.7	764.0	764.4	764.8	765.2	765.1
150°	780.1	781.0	781.7	782.4	783.2	783.9	784.4	784.9	785.4	786.0	786.0
152.5°	799.7	800.6	801.5	802.3	803.1	804.1	804.7	805.4	806.1	806.7	806.7
155°	827.0	827.5	828.0	828.6	829.1	829.6	830.5	831.3	832.2	833.1	833.3
157.5°	851.4	851.7	852.0	852.3	852.6	852.9	854.1	855.4	856.6	857.8	857.9
160°	866.6	866.8	867.0	867.2	867.4	867.5	868.6	869.6	870.7	871.7	871.9
162.5°	879.3	879.4	879.6	879.8	880.0	880.1	881.3	882.5	883.7	884.9	885.0
165°	896.8	896.7	896.7	896.7	896.7	896.7	898.0	899.2	900.4	901.6	901.8
167.5°	910.9	910.6	910.6	910.5	910.5	910.4	911.7	912.9	914.1	915.3	915.5
170°	919.1	918.7	918.6	918.4	918.2	918.0	919.3	920.5	921.7	922.9	923.0
172.5°	924.7	924.4	924.2	924.0	923.9	923.7	924.9	926.1	927.4	928.6	928.7
175°	931.7	931.3	930.9	930.6	930.2	929.9	931.1	932.3	933.5	934.7	934.8
177.5°	934.9	934.6	934.3	934.0	933.7	933.5	934.3	935.1	936.0	936.9	936.9
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3



TEST NUMBER: P331628-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A1

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°	7.7	7.5	7.7	7.6	7.7	7.5	7.7	7.6	7.8	7.9	8.0
90°	26.4	26.5	26.7	26.9	26.7	26.5	26.4	26.2	26.3	26.6	27.0
92.5°	25.4	25.5	25.5	25.5	25.5	25.5	25.4	25.4	25.3	25.3	25.2
95°	50.0	49.7	49.3	49.0	49.3	49.7	50.0	50.4	50.5	50.5	50.5
97.5°	84.9	84.8	84.8	84.7	84.8	84.8	84.9	84.9	84.9	84.9	84.9
100°	108.7	108.5	108.4	108.2	108.4	108.5	108.7	108.9	109.0	109.0	109.0
102.5°	135.2	135.0	134.8	134.6	134.8	135.0	135.2	135.3	135.4	135.2	135.1
105°	175.2	175.2	175.2	175.2	175.2	175.2	175.2	175.2	175.1	174.7	174.4
107.5°	215.9	215.1	214.3	213.5	214.3	215.1	215.9	216.7	217.0	216.8	216.7
110°	244.7	244.2	243.7	243.1	243.7	244.2	244.7	245.2	245.5	245.5	245.5



TEST NUMBER: P331628-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	272.7	272.3	272.0	271.6	272.0	272.3	272.7	273.1	273.5	273.9	274.3
115°	317.3	316.8	316.3	315.8	316.3	316.8	317.3	317.8	318.2	318.4	318.5
117.5°	359.5	358.9	358.4	357.9	358.4	358.9	359.5	360.0	360.4	360.9	361.3
120°	389.1	388.6	388.1	387.6	388.1	388.6	389.1	389.7	389.9	389.9	389.9
122.5°	417.8	417.4	417.0	416.7	417.0	417.4	417.8	418.2	418.6	419.0	419.4
125°	461.5	461.3	461.2	461.0	461.2	461.3	461.5	461.7	462.0	462.5	463.1
127.5°	503.1	502.5	502.0	501.4	502.0	502.5	503.1	503.6	504.2	504.8	505.5
130°	532.5	531.9	531.2	530.5	531.2	531.9	532.5	533.2	533.8	534.1	534.5
132.5°	559.9	559.4	558.8	558.3	558.8	559.4	559.9	560.5	561.2	561.9	562.7
135°	603.1	602.6	602.0	601.5	602.0	602.6	603.1	603.6	603.9	604.1	604.3
137.5°	642.8	642.1	641.4	640.7	641.4	642.1	642.8	643.5	643.9	644.0	644.2
140°	669.9	669.2	668.5	667.8	668.5	669.2	669.9	670.6	671.0	671.0	671.0
142.5°	694.5	693.8	693.2	692.5	693.2	693.8	694.5	695.2	695.5	695.4	695.2
145°	731.4	730.7	730.0	729.3	730.0	730.7	731.4	732.2	732.5	732.3	732.1
147.5°	764.4	763.7	763.1	762.3	763.1	763.7	764.4	765.1	765.2	764.8	764.4
150°	785.4	784.9	784.4	783.9	784.4	784.9	785.4	786.0	786.0	785.4	784.9
152.5°	806.1	805.4	804.7	804.1	804.7	805.4	806.1	806.7	806.7	806.1	805.4
155°	832.7	832.2	831.7	831.2	831.7	832.2	832.7	833.3	833.1	832.2	831.3
157.5°	857.1	856.3	855.4	854.5	855.4	856.3	857.1	857.9	857.8	856.6	855.4
160°	871.2	870.5	869.8	869.1	869.8	870.5	871.2	871.9	871.7	870.7	869.6
162.5°	884.2	883.4	882.5	881.7	882.5	883.4	884.2	885.0	884.9	883.7	882.5
165°	900.9	900.0	899.2	898.3	899.2	900.0	900.9	901.8	901.6	900.4	899.2
167.5°	914.6	913.7	912.8	911.9	912.8	913.7	914.6	915.5	915.3	914.1	912.9
170°	922.0	920.9	919.9	918.8	919.9	920.9	922.0	923.0	922.9	921.7	920.5
172.5°	927.7	926.6	925.5	924.5	925.5	926.6	927.7	928.7	928.6	927.4	926.1
175°	933.8	932.7	931.7	930.7	931.7	932.7	933.8	934.8	934.7	933.5	932.3
177.5°	936.0	935.1	934.3	933.5	934.3	935.1	936.0	936.9	936.9	936.0	935.1
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3



TEST NUMBER: P331628-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A1

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°	8.2	8.3	7.7	7.0	6.2	5.8	5.4	5.0	5.0	5.2	5.5
90°	27.3	27.7	23.7	19.9	16.1	12.2	9.2	7.1	5.0	2.9	0.8
92.5°	25.1	25.1	24.2	23.2	22.3	21.4	20.2	18.7	17.2	15.6	14.0
95°	50.5	50.5	50.2	49.8	49.5	49.1	48.1	46.4	44.5	42.8	41.0
97.5°	84.9	84.9	84.2	83.6	82.9	82.3	81.2	79.6	78.1	76.5	75.0
100°	109.0	109.0	108.4	107.9	107.3	106.8	105.8	104.4	103.0	101.7	100.3
102.5°	134.9	134.8	134.1	133.5	132.8	132.2	131.3	130.2	129.1	127.8	126.7
105°	174.0	173.7	173.3	173.0	172.6	172.3	171.8	171.3	170.8	170.3	169.8
107.5°	216.6	216.4	216.4	216.4	216.4	216.4	216.0	215.3	214.5	213.8	213.0
110°	245.5	245.5	245.5	245.5	245.5	245.5	245.0	243.9	242.9	241.8	240.8



TEST NUMBER: P331628-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	274.8	275.2	275.3	275.5	275.6	275.7	275.3	274.2	273.2	272.2	271.0
115°	318.7	318.9	319.2	319.6	319.9	320.3	319.9	318.9	317.8	316.8	315.8
117.5°	361.7	362.1	363.1	364.2	365.1	366.1	365.9	364.5	363.0	361.6	360.2
120°	389.9	389.9	391.3	392.7	394.2	395.6	395.6	394.2	392.7	391.3	389.9
122.5°	419.8	420.2	421.2	422.2	423.2	424.1	423.8	422.1	420.5	418.8	417.1
125°	463.6	464.1	464.6	465.1	465.7	466.3	465.7	464.1	462.5	461.0	459.4
127.5°	506.1	506.8	507.4	508.1	508.7	509.3	508.6	506.6	504.6	502.6	500.6
130°	534.8	535.2	535.5	535.8	536.2	536.5	535.6	533.3	531.1	528.8	526.5
132.5°	563.5	564.2	564.1	564.1	564.0	563.9	563.0	561.1	559.3	557.4	555.5
135°	604.5	604.6	604.3	603.9	603.6	603.2	602.1	600.2	598.2	596.3	594.4
137.5°	644.3	644.4	644.0	643.5	643.1	642.6	641.6	640.1	638.4	636.8	635.3
140°	671.0	671.0	670.0	669.2	668.3	667.4	666.2	664.6	663.1	661.5	659.9
142.5°	695.1	695.0	694.4	693.8	693.2	692.6	691.5	689.9	688.3	686.7	685.2
145°	732.0	731.7	730.6	729.6	728.6	727.5	726.4	725.2	724.0	722.7	721.4
147.5°	764.0	763.7	763.0	762.2	761.5	760.8	759.7	758.2	756.8	755.3	753.9
150°	784.4	783.9	783.2	782.4	781.7	781.0	780.1	779.1	778.0	777.0	776.0
152.5°	804.7	804.1	803.1	802.3	801.5	800.6	799.7	798.7	797.6	796.6	795.5
155°	830.5	829.6	829.1	828.6	828.0	827.5	827.0	826.5	826.0	825.4	824.9
157.5°	854.1	852.9	852.6	852.3	852.0	851.7	851.4	851.0	850.7	850.3	850.0
160°	868.6	867.5	867.4	867.2	867.0	866.8	866.6	866.2	865.9	865.5	865.2
162.5°	881.3	880.1	880.0	879.8	879.6	879.4	879.3	879.2	879.2	879.1	879.0
165°	898.0	896.7	896.7	896.7	896.7	896.7	896.8	897.0	897.2	897.4	897.5
167.5°	911.7	910.4	910.5	910.5	910.6	910.6	910.9	911.4	911.9	912.4	912.9
170°	919.3	918.0	918.2	918.4	918.6	918.7	919.1	919.6	920.1	920.7	921.2
172.5°	924.9	923.7	923.9	924.0	924.2	924.4	924.7	925.2	925.8	926.3	926.9
175°	931.1	929.9	930.2	930.6	930.9	931.3	931.7	932.2	932.7	933.3	933.8
177.5°	934.3	933.5	933.7	934.0	934.3	934.6	934.9	935.3	935.8	936.2	936.6
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3



TEST NUMBER: P331628-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A1

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°	4.9	4.4	4.7	4.9	5.8	6.5	7.1	7.9	8.8	8.6	8.7
90°	2.9	5.0	7.1	9.2	12.2	16.1	19.9	23.7	27.7	27.3	27.0
92.5°	15.6	17.2	18.7	20.2	21.4	22.3	23.2	24.2	25.1	25.1	25.2
95°	42.8	44.5	46.4	48.1	49.1	49.5	49.8	50.2	50.5	50.5	50.5
97.5°	76.5	78.1	79.6	81.2	82.3	82.9	83.6	84.2	84.9	84.9	84.9
100°	101.7	103.0	104.4	105.8	106.8	107.3	107.9	108.4	109.0	109.0	109.0
102.5°	127.8	129.1	130.2	131.3	132.2	132.8	133.5	134.1	134.8	134.9	135.1
105°	170.3	170.8	171.3	171.8	172.3	172.6	173.0	173.3	173.7	174.0	174.4
107.5°	213.8	214.5	215.3	216.0	216.4	216.4	216.4	216.4	216.4	216.6	216.7
110°	241.8	242.9	243.9	245.0	245.5	245.5	245.5	245.5	245.5	245.5	245.5



TEST NUMBER: P331628-840

CATALOG NUMBER: SA2XXRDIP-C290D725U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	272.2	273.2	274.2	275.3	275.7	275.6	275.5	275.3	275.2	274.8	274.3
115°	316.8	317.8	318.9	319.9	320.3	319.9	319.6	319.2	318.9	318.7	318.5
117.5°	361.6	363.0	364.5	365.9	366.1	365.1	364.2	363.1	362.1	361.7	361.3
120°	391.3	392.7	394.2	395.6	395.6	394.2	392.7	391.3	389.9	389.9	389.9
122.5°	418.8	420.5	422.1	423.8	424.1	423.2	422.2	421.2	420.2	419.8	419.4
125°	461.0	462.5	464.1	465.7	466.3	465.7	465.1	464.6	464.1	463.6	463.1
127.5°	502.6	504.6	506.6	508.6	509.3	508.7	508.1	507.4	506.8	506.1	505.5
130°	528.8	531.1	533.3	535.6	536.5	536.2	535.8	535.5	535.2	534.8	534.5
132.5°	557.4	559.3	561.1	563.0	563.9	564.0	564.1	564.1	564.2	563.5	562.7
135°	596.3	598.2	600.2	602.1	603.2	603.6	603.9	604.3	604.6	604.5	604.3
137.5°	636.8	638.4	640.1	641.6	642.6	643.1	643.5	644.0	644.4	644.3	644.2
140°	661.5	663.1	664.6	666.2	667.4	668.3	669.2	670.0	671.0	671.0	671.0
142.5°	686.7	688.3	689.9	691.5	692.6	693.2	693.8	694.4	695.0	695.1	695.2
145°	722.7	724.0	725.2	726.4	727.5	728.6	729.6	730.6	731.7	732.0	732.1
147.5°	755.3	756.8	758.2	759.7	760.8	761.5	762.2	763.0	763.7	764.0	764.4
150°	777.0	778.0	779.1	780.1	781.0	781.7	782.4	783.2	783.9	784.4	784.9
152.5°	796.6	797.6	798.7	799.7	800.6	801.5	802.3	803.1	804.1	804.7	805.4
155°	825.4	826.0	826.5	827.0	827.5	828.0	828.6	829.1	829.6	830.5	831.3
157.5°	850.3	850.7	851.0	851.4	851.7	852.0	852.3	852.6	852.9	854.1	855.4
160°	865.5	865.9	866.2	866.6	866.8	867.0	867.2	867.4	867.5	868.6	869.6
162.5°	879.1	879.2	879.2	879.3	879.4	879.6	879.8	880.0	880.1	881.3	882.5
165°	897.4	897.2	897.0	896.8	896.7	896.7	896.7	896.7	896.7	898.0	899.2
167.5°	912.4	911.9	911.4	910.9	910.6	910.6	910.5	910.5	910.4	911.7	912.9
170°	920.7	920.1	919.6	919.1	918.7	918.6	918.4	918.2	918.0	919.3	920.5
172.5°	926.3	925.8	925.2	924.7	924.4	924.2	924.0	923.9	923.7	924.9	926.1
175°	933.3	932.7	932.2	931.7	931.3	930.9	930.6	930.2	929.9	931.1	932.3
177.5°	936.2	935.8	935.3	934.9	934.6	934.3	934.0	933.7	933.5	934.3	935.1
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3



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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°	8.5	8.4	8.4	8.4	8.4	8.5	8.3
90°	26.6	26.3	26.2	26.4	26.5	26.7	26.9
92.5°	25.3	25.3	25.4	25.4	25.5	25.5	25.5
95°	50.5	50.5	50.4	50.0	49.7	49.3	49.0
97.5°	84.9	84.9	84.9	84.9	84.8	84.8	84.7
100°	109.0	109.0	108.9	108.7	108.5	108.4	108.2
102.5°	135.2	135.4	135.3	135.2	135.0	134.8	134.6
105°	174.7	175.1	175.2	175.2	175.2	175.2	175.2
107.5°	216.8	217.0	216.7	215.9	215.1	214.3	213.5
110°	245.5	245.5	245.2	244.7	244.2	243.7	243.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	273.9	273.5	273.1	272.7	272.3	272.0	271.6
115°	318.4	318.2	317.8	317.3	316.8	316.3	315.8
117.5°	360.9	360.4	360.0	359.5	358.9	358.4	357.9
120°	389.9	389.9	389.7	389.1	388.6	388.1	387.6
122.5°	419.0	418.6	418.2	417.8	417.4	417.0	416.7
125°	462.5	462.0	461.7	461.5	461.3	461.2	461.0
127.5°	504.8	504.2	503.6	503.1	502.5	502.0	501.4
130°	534.1	533.8	533.2	532.5	531.9	531.2	530.5
132.5°	561.9	561.2	560.5	559.9	559.4	558.8	558.3
135°	604.1	603.9	603.6	603.1	602.6	602.0	601.5
137.5°	644.0	643.9	643.5	642.8	642.1	641.4	640.7
140°	671.0	671.0	670.6	669.9	669.2	668.5	667.8
142.5°	695.4	695.5	695.2	694.5	693.8	693.2	692.5
145°	732.3	732.5	732.2	731.4	730.7	730.0	729.3
147.5°	764.8	765.2	765.1	764.4	763.7	763.1	762.3
150°	785.4	786.0	786.0	785.4	784.9	784.4	783.9
152.5°	806.1	806.7	806.7	806.1	805.4	804.7	804.1
155°	832.2	833.1	833.3	832.7	832.2	831.7	831.2
157.5°	856.6	857.8	857.9	857.1	856.3	855.4	854.5
160°	870.7	871.7	871.9	871.2	870.5	869.8	869.1
162.5°	883.7	884.9	885.0	884.2	883.4	882.5	881.7
165°	900.4	901.6	901.8	900.9	900.0	899.2	898.3
167.5°	914.1	915.3	915.5	914.6	913.7	912.8	911.9
170°	921.7	922.9	923.0	922.0	920.9	919.9	918.8
172.5°	927.4	928.6	928.7	927.7	926.6	925.5	924.5
175°	933.5	934.7	934.8	933.8	932.7	931.7	930.7
177.5°	936.0	936.9	936.9	936.0	935.1	934.3	933.5
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3

(END OF REPORT)