

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: P331269-830

Luminaire Tested: **SA2XXDIP-C290D925U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331269-830  
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: SA2XXDIP-C290D925U830-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

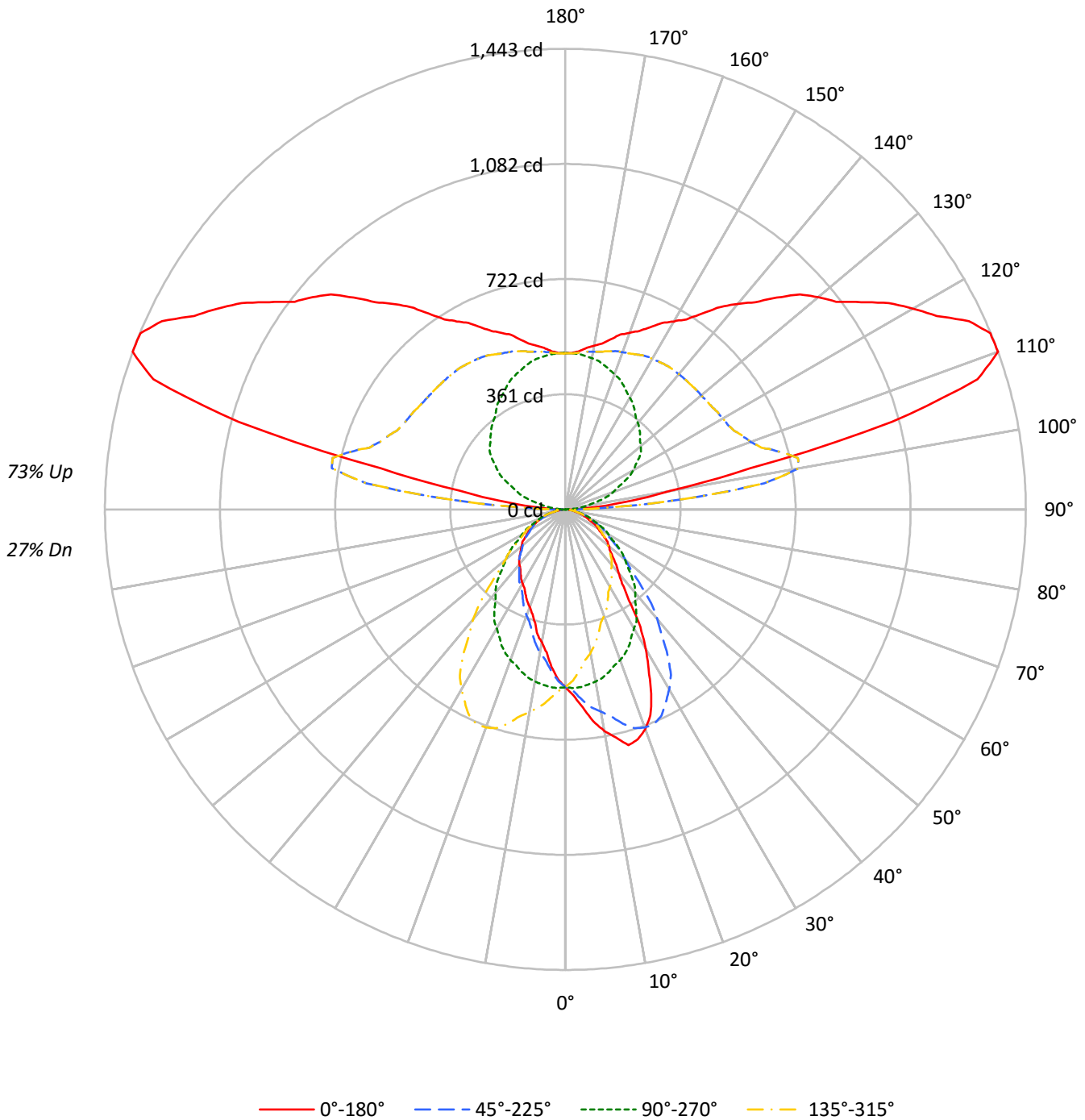
Lumens per Lamp: N/A  
Luminaire Lumens: 4637.4 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	93	89	85	82	83	79	76	74	62	60	58	46	45	43	31	30	30	23
2	85	78	72	67	75	70	65	61	54	51	48	40	38	37	27	26	25	20
3	77	68	62	56	69	61	56	51	48	44	41	36	33	31	25	23	22	17
4	71	61	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19	15
5	65	54	46	41	58	49	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	41	35	53	44	37	32	35	30	26	26	23	20	18	16	15	11
7	55	44	36	31	49	39	33	28	31	27	23	24	21	18	17	15	13	10
8	51	39	32	27	46	36	29	25	28	24	20	22	19	16	15	13	12	9
9	48	36	29	24	42	33	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	24	20	24	19	16	18	15	13	13	11	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	8995	8995	8995	8995
5°	10084	9054	8023	9054
10°	11555	8979	6943	8979
15°	12784	8816	6135	8816
20°	12589	8639	5593	8639
25°	11352	8402	5248	8402
30°	9380	8028	4998	8028
35°	6838	7634	4819	7634
40°	5461	7172	4719	7172
45°	4772	6635	4587	6635
50°	4486	6116	4496	6116
55°	4132	5588	4374	5588
60°	3788	5025	4191	5025
65°	3454	4523	4008	4523
70°	3135	4032	3744	4032
75°	2782	3487	3313	3487
80°	2390	2882	2669	2882
85°	2149	2149	1593	2149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.1	1.1
10°-20°	154.2	3.3
20°-30°	223.9	4.8
30°-40°	236.2	5.1
40°-50°	209.2	4.5
50°-60°	166.9	3.6
60°-70°	113.4	2.4
70°-80°	58.2	1.3
80°-90°	18.4	0.4
90°-100°	195.6	4.2
100°-110°	663.7	14.3
110°-120°	705.1	15.2
120°-130°	580.4	12.5
130°-140°	466.1	10.1
140°-150°	352.2	7.6
150°-160°	247.5	5.3
160°-170°	145.7	3.1
170°-180°	47.4	1.0
0°-30°	431.2	9.3
0°-40°	667.4	14.4
0°-60°	1043.5	22.5
0°-90°	1233.5	26.6
90°-120°	1564.4	33.7
90°-150°	2963.2	63.9
90°-180°	3404.0	73.4
0°-180°	4637.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	557	557	557	557	557	
5°	622	559	495	559	622	62
15°	765	527	367	527	765	211
25°	637	472	295	472	637	288
35°	347	387	244	387	347	226
45°	209	291	201	291	209	164
55°	147	198	155	198	147	132
65°	90	118	105	118	90	90
75°	45	56	53	56	45	48
85°	12	12	9	12	12	14
90°	31	1	31	1	31	17
95°	107	33	107	33	107	139
105°	1060	115	1060	115	1060	1026
115°	1395	202	1395	202	1395	1366
125°	1132	282	1132	282	1132	1023
135°	938	331	938	331	938	729
145°	749	378	749	378	749	476
155°	629	430	629	430	629	294
165°	552	468	552	468	552	158
175°	498	488	498	488	498	48
180°	489	489	489	489	489	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	582.8	583.0	583.3	580.6	580.2	580.2	577.9	575.8	573.3	570.1	570.5
5°	622.2	624.5	625.4	622.8	619.0	618.6	614.9	609.0	603.3	598.9	595.7
7.5°	669.2	670.1	668.1	664.7	661.9	656.7	649.9	643.3	634.0	625.5	619.2
10°	704.8	706.2	702.5	697.6	693.5	687.5	677.7	667.6	655.4	643.7	634.2
12.5°	731.9	735.1	730.4	729.8	722.8	714.5	702.9	697.8	680.6	664.2	654.0
15°	764.8	764.6	765.1	760.9	755.8	754.5	742.2	728.6	704.5	694.7	678.1
17.5°	755.3	758.6	760.1	760.0	759.9	759.0	755.1	746.6	734.4	718.8	699.6
20°	732.7	737.0	737.6	742.5	745.4	748.9	750.5	748.1	740.6	727.5	710.9
22.5°	697.8	699.0	701.0	708.6	714.6	723.8	728.5	736.5	733.6	727.2	713.2
25°	637.2	635.1	642.5	646.4	660.3	674.9	685.4	696.9	707.2	713.4	709.4
27.5°	564.5	561.3	572.5	582.8	594.0	609.8	626.1	645.5	661.5	681.6	688.5
30°	503.1	505.1	515.8	526.7	543.8	566.1	584.6	605.7	628.7	651.1	666.8
32.5°	437.1	444.4	451.2	468.0	483.1	507.8	534.9	561.4	589.9	615.5	639.7
35°	346.9	355.4	364.9	377.0	398.2	422.8	449.2	484.9	524.0	558.8	587.5
37.5°	292.0	290.6	296.0	304.8	322.0	341.9	372.2	407.5	453.4	494.4	534.9
40°	259.1	258.3	262.0	270.2	283.2	297.8	324.4	355.4	398.0	448.2	496.3
42.5°	236.5	237.0	239.1	244.9	253.8	265.8	285.7	312.1	351.1	398.3	450.1
45°	209.0	210.5	212.8	215.7	220.7	230.6	241.8	260.6	291.4	330.8	381.7
47.5°	189.2	189.3	191.6	194.1	197.1	202.6	211.8	223.6	245.3	277.4	321.2
50°	178.6	177.1	178.8	180.7	183.9	187.8	193.8	204.9	219.4	245.3	282.0
52.5°	165.5	165.6	167.1	167.9	170.7	174.6	180.0	187.8	201.0	221.2	251.3
55°	146.8	148.0	148.8	150.1	152.7	155.4	159.8	164.9	175.1	190.3	212.6
57.5°	129.3	129.7	130.5	133.0	134.6	137.1	141.2	145.9	152.6	163.8	180.6
60°	117.3	117.3	119.0	120.1	122.2	124.8	128.0	132.5	138.6	147.7	161.3
62.5°	106.4	106.2	106.9	108.7	110.3	112.6	115.8	119.7	125.4	133.6	144.6
65°	90.4	89.9	91.2	91.6	93.3	95.7	98.3	102.4	106.9	112.8	122.7
67.5°	74.9	75.5	76.2	76.9	77.9	80.4	82.1	84.9	88.8	93.8	100.4
70°	66.4	66.4	66.4	67.0	68.3	69.6	71.3	73.6	77.3	81.5	87.6
72.5°	56.7	57.5	58.2	57.8	59.4	60.1	62.2	63.5	67.0	69.7	75.0
75°	44.6	44.6	44.6	45.6	46.3	46.8	48.2	49.5	51.2	54.6	57.4
77.5°	33.3	33.2	33.4	33.6	34.3	35.1	35.4	36.6	38.2	39.8	42.1
80°	25.7	26.1	26.3	26.8	26.8	27.1	27.4	28.9	30.0	31.0	32.5
82.5°	19.9	20.0	20.0	20.1	20.3	20.5	21.1	21.6	22.0	22.8	23.9
85°	11.6	11.3	11.3	11.8	11.6	11.6	12.0	12.4	12.4	12.6	13.3
87.5°	10.7	10.7	10.8	10.7	10.7	10.7	10.3	10.5	10.8	11.2	11.2
90°	31.0	31.0	31.0	31.0	31.0	30.1	28.2	30.1	31.0	32.0	31.0
92.5°	52.1	53.6	52.9	55.9	56.6	62.5	70.4	82.0	103.3	122.2	120.6
95°	107.3	106.3	109.1	116.7	128.8	149.6	189.1	246.5	322.6	368.7	326.4
97.5°	211.1	219.0	232.7	255.9	300.9	368.7	470.5	575.1	660.3	629.5	474.1
100°	336.8	353.7	381.0	421.4	499.5	613.3	742.2	858.8	878.6	743.1	511.7
102.5°	592.7	615.6	649.6	718.7	803.5	924.2	1018.4	1044.7	959.9	746.9	497.5
105°	1060.2	1073.3	1113.8	1172.1	1230.4	1261.5	1249.2	1142.9	947.3	697.0	469.4
107.5°	1354.2	1371.7	1379.8	1383.0	1375.6	1330.1	1232.3	1072.2	864.7	643.7	455.4
110°	1443.0	1444.0	1435.5	1417.6	1377.1	1300.0	1179.6	1011.3	812.8	618.0	452.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1441.5	1436.4	1420.4	1390.5	1334.3	1245.9	1117.2	955.5	776.7	601.4	453.2
115°	1395.1	1386.6	1362.1	1318.8	1252.1	1155.2	1031.9	887.0	731.9	583.2	457.1
117.5°	1312.0	1305.0	1279.1	1233.4	1165.4	1074.4	962.7	835.5	703.6	574.4	463.9
120°	1258.7	1249.2	1221.9	1177.7	1111.9	1026.2	926.6	809.9	688.6	569.1	468.4
122.5°	1203.0	1195.0	1170.7	1127.3	1068.3	990.9	896.5	789.6	675.8	566.1	473.7
125°	1131.6	1124.1	1100.6	1064.9	1010.3	939.7	857.0	760.1	657.5	560.6	481.6
127.5°	1069.2	1063.2	1042.8	1009.4	961.8	896.6	818.6	730.9	640.6	557.4	489.7
130°	1033.8	1026.2	1007.5	975.5	929.4	867.3	793.0	712.1	629.3	555.9	495.8
132.5°	996.9	990.1	972.9	940.8	895.5	837.2	768.9	694.0	620.3	555.2	501.7
135°	937.8	934.1	917.2	886.1	845.6	793.0	730.9	668.8	607.7	554.0	508.9
137.5°	880.0	874.3	859.4	832.7	795.8	749.9	700.6	648.7	598.8	553.8	515.3
140°	840.0	834.4	820.3	795.8	765.7	724.3	681.1	635.9	593.6	553.1	518.3
142.5°	800.1	799.0	786.5	764.2	735.7	701.0	663.7	625.4	588.3	553.1	520.6
145°	748.8	745.9	736.6	720.6	698.0	670.7	641.6	610.5	581.4	551.2	523.0
147.5°	705.7	704.0	697.6	684.9	666.2	646.2	623.5	599.0	574.2	547.9	523.8
150°	680.1	679.2	673.5	662.2	648.1	631.2	611.4	590.8	568.2	545.6	523.0
152.5°	658.3	658.1	653.9	644.1	633.1	618.4	601.6	582.5	562.9	541.9	521.5
155°	629.3	631.2	627.5	620.9	610.5	600.1	586.1	571.0	553.1	535.3	519.2
157.5°	604.6	604.6	602.9	597.5	590.2	582.1	570.2	557.6	543.9	528.5	514.9
160°	588.9	588.9	588.0	583.2	576.6	570.0	559.7	549.3	537.2	524.0	512.6
162.5°	573.8	574.6	573.6	570.4	563.8	558.7	549.9	541.1	531.1	520.2	510.4
165°	552.1	553.1	553.1	549.3	545.6	541.9	535.3	528.7	521.1	512.6	506.1
167.5°	532.3	533.4	533.6	531.5	529.8	526.4	521.9	516.8	511.3	506.1	501.7
170°	520.2	522.1	523.0	520.2	519.2	517.4	513.6	510.8	506.1	502.3	499.5
172.5°	510.4	511.5	512.5	511.1	510.2	509.1	506.1	504.0	500.9	497.9	496.5
175°	497.7	499.5	500.5	499.5	499.5	498.6	497.7	496.7	493.9	492.9	492.0
177.5°	489.9	491.4	492.2	492.2	492.2	492.2	491.4	491.4	489.9	489.2	489.9
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	571.7	570.3	569.5	566.4	563.6	560.9	560.1	560.3	556.6	553.0	551.5
5°	594.0	589.7	585.6	579.9	573.0	565.4	561.7	558.6	551.1	543.0	538.3
7.5°	613.9	607.8	599.9	589.1	579.1	567.3	559.8	553.2	542.2	530.7	523.7
10°	626.0	617.7	607.7	594.4	582.2	567.8	557.8	547.7	534.9	521.1	512.6
12.5°	636.5	625.3	615.4	598.3	583.9	565.9	554.0	539.8	526.3	510.0	501.6
15°	661.4	640.6	621.8	602.5	584.8	559.7	546.4	527.4	509.6	489.5	479.8
17.5°	680.6	657.2	627.6	603.1	582.4	554.6	535.2	512.4	491.3	468.3	455.2
20°	691.5	664.8	632.9	603.8	579.0	547.2	526.0	502.8	478.2	452.2	438.1
22.5°	698.0	670.0	638.4	601.2	572.1	541.3	514.6	489.0	464.1	436.1	421.3
25°	700.1	674.5	641.0	599.1	563.5	528.7	496.5	471.6	441.5	415.4	393.8
27.5°	689.9	671.6	639.4	595.0	553.6	512.8	477.0	448.9	417.1	388.7	366.9
30°	677.4	666.8	635.5	591.0	545.7	501.9	462.5	430.6	398.9	370.2	347.9
32.5°	658.1	655.8	628.3	585.1	537.3	488.0	447.2	415.0	379.8	351.7	330.5
35°	620.1	630.4	613.0	572.1	521.6	468.3	424.1	387.3	350.9	324.0	304.1
37.5°	569.1	594.7	590.1	553.1	500.2	446.8	398.0	359.6	324.9	297.7	278.1
40°	534.0	566.6	571.3	538.5	485.2	430.2	378.5	340.3	306.4	281.5	261.8
42.5°	496.3	534.3	547.2	521.0	468.7	412.6	361.1	321.4	287.9	263.7	246.3
45°	433.2	483.4	506.8	491.8	441.3	383.9	330.8	290.6	260.1	237.4	223.9
47.5°	374.1	429.0	460.4	455.2	410.8	353.9	301.4	262.8	233.2	215.1	203.0
50°	332.3	388.8	426.7	428.5	388.8	332.5	279.8	243.5	216.2	199.3	189.5
52.5°	296.0	350.0	391.2	400.4	364.3	310.3	260.5	224.2	200.3	184.7	176.0
55°	248.5	294.2	340.0	356.8	327.8	276.4	230.4	198.5	176.0	165.3	157.6
57.5°	206.7	244.7	287.0	305.5	287.7	243.6	200.5	172.8	154.6	145.2	139.2
60°	184.5	214.5	252.2	274.3	258.8	219.7	182.0	155.6	140.6	132.3	126.8
62.5°	164.0	190.6	222.4	242.6	234.2	197.3	163.5	140.3	127.3	119.5	115.5
65°	135.3	156.3	181.0	199.5	194.0	166.0	138.3	118.4	108.1	101.9	98.7
67.5°	111.4	126.6	143.6	159.9	155.5	135.6	113.5	97.9	90.3	84.9	82.9
70°	96.3	107.9	123.1	136.2	132.5	116.3	98.7	85.4	78.8	74.3	72.4
72.5°	82.0	91.4	103.1	113.8	111.3	97.7	83.1	73.1	68.0	63.8	62.3
75°	61.9	69.2	76.3	83.3	82.7	72.2	63.6	55.9	51.8	48.6	48.0
77.5°	45.7	49.8	54.6	58.7	57.6	51.6	44.9	40.4	37.5	35.3	35.0
80°	34.9	37.2	40.7	43.6	42.2	39.6	34.2	31.0	28.9	26.8	25.9
82.5°	25.4	27.6	29.7	31.4	30.2	27.8	24.5	22.3	21.0	19.6	19.2
85°	13.3	14.5	15.5	15.8	15.5	13.9	12.4	11.6	10.5	9.8	9.6
87.5°	10.2	8.9	7.9	7.7	6.9	6.5	5.0	4.0	4.3	4.9	5.0
90°	25.4	18.9	14.1	11.3	9.4	7.5	3.8	0.9	3.8	7.5	9.4
92.5°	93.9	64.0	42.7	33.8	27.4	23.4	16.6	11.5	16.6	23.4	27.4
95°	217.3	135.4	92.2	69.7	54.6	46.1	36.7	32.9	36.7	46.1	54.6
97.5°	292.8	178.7	124.3	98.8	81.4	68.7	58.7	53.6	58.7	68.7	81.4
100°	308.6	193.8	143.9	117.6	98.8	83.7	75.2	72.4	75.2	83.7	98.8
102.5°	309.3	207.4	161.3	134.9	115.4	100.3	91.8	89.7	91.8	100.3	115.4
105°	314.1	230.5	186.2	159.9	139.2	125.1	118.6	114.8	118.6	125.1	139.2
107.5°	327.2	254.2	211.3	184.7	164.3	151.3	144.9	141.9	144.9	151.3	164.3
110°	337.7	269.9	228.6	201.3	181.5	169.3	163.7	159.9	163.7	169.3	181.5





TEST NUMBER: P331269-830

CATALOG NUMBER: SA2XXDIP-C290D925U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	349.0	285.0	245.2	217.1	198.1	186.6	180.2	176.4	180.2	186.6	198.1
115°	365.9	308.6	268.1	242.7	223.9	212.6	207.0	202.3	207.0	212.6	223.9
117.5°	384.0	330.2	292.8	266.4	248.4	238.4	232.7	228.9	232.7	238.4	248.4
120°	396.1	345.3	308.6	282.2	263.3	255.0	249.3	245.5	249.3	255.0	263.3
122.5°	406.5	359.5	325.1	298.0	279.2	269.9	264.3	261.4	264.3	269.9	279.2
125°	423.3	381.0	347.1	320.7	302.0	290.7	285.0	282.2	285.0	290.7	302.0
127.5°	438.9	401.0	368.0	340.9	322.8	310.4	302.6	298.8	302.6	310.4	322.8
130°	448.7	412.9	380.0	353.7	334.9	321.7	312.3	308.6	312.3	321.7	334.9
132.5°	458.5	423.5	392.1	365.7	346.2	332.2	322.1	317.5	322.1	332.2	346.2
135°	471.3	438.4	408.2	381.9	360.2	346.2	334.9	331.1	334.9	346.2	360.2
137.5°	481.1	450.4	420.7	396.2	374.8	359.7	348.5	343.9	348.5	359.7	374.8
140°	486.4	457.1	429.0	404.5	383.8	368.7	357.5	353.7	357.5	368.7	383.8
142.5°	490.9	462.4	435.0	412.0	392.1	377.0	366.5	363.4	366.5	377.0	392.1
145°	496.7	470.3	445.0	424.2	405.5	391.3	381.9	378.1	381.9	391.3	405.5
147.5°	499.9	476.7	452.9	434.4	418.8	405.8	396.8	394.0	396.8	405.8	418.8
150°	501.3	479.8	458.1	441.2	427.1	414.8	407.3	404.5	407.3	414.8	427.1
152.5°	502.1	482.8	463.4	448.0	434.6	423.9	416.3	415.0	416.3	423.9	434.6
155°	503.2	487.3	471.3	457.1	446.9	436.5	430.8	429.9	430.8	436.5	446.9
157.5°	503.2	490.5	476.9	465.1	456.8	447.8	443.3	442.3	443.3	447.8	456.8
160°	503.2	492.0	480.7	470.3	462.8	455.2	451.6	450.6	451.6	455.2	462.8
162.5°	502.5	492.8	483.0	474.9	468.1	462.0	458.3	458.8	458.3	462.0	468.1
165°	500.5	493.9	485.4	479.8	475.0	469.4	467.5	468.4	467.5	469.4	475.0
167.5°	499.2	493.7	487.5	483.9	480.5	476.9	475.2	476.4	475.2	476.9	480.5
170°	497.7	492.9	488.2	485.4	483.5	480.7	479.8	481.6	479.8	480.7	483.5
172.5°	495.4	492.2	489.0	486.9	485.8	483.0	483.5	484.7	483.5	483.0	485.8
175°	492.9	491.1	489.2	488.2	488.2	486.4	487.3	488.2	487.3	486.4	488.2
177.5°	491.4	489.9	489.2	489.2	489.2	487.7	488.4	489.9	488.4	487.7	489.2
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2



TEST NUMBER: P331269-830

CATALOG NUMBER: SA2XXDIP-C290D925U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	549.8	548.7	545.2	543.3	540.2	537.2	535.4	536.2	536.9	536.6	536.0
5°	534.0	529.9	523.7	518.4	514.5	507.5	504.4	502.9	501.6	500.2	498.7
7.5°	515.2	508.8	499.9	492.3	485.1	476.3	471.3	468.3	465.2	461.8	458.8
10°	501.9	492.9	483.4	472.8	464.2	456.3	449.2	444.5	440.2	436.1	433.2
12.5°	487.9	477.5	465.8	451.2	441.8	430.4	429.3	421.0	414.3	411.8	408.3
15°	465.5	450.9	436.1	418.8	411.3	401.1	394.6	388.1	382.4	378.3	377.3
17.5°	440.1	421.2	406.5	394.1	381.8	371.3	365.3	360.2	355.4	350.1	349.3
20°	420.8	404.4	388.4	377.5	364.9	354.1	346.9	341.8	337.6	334.4	331.7
22.5°	402.4	384.6	369.9	358.0	345.5	336.9	331.1	326.1	322.7	319.2	316.6
25°	373.0	359.1	343.0	329.5	319.2	313.7	309.0	304.7	302.6	300.2	297.2
27.5°	347.2	331.8	316.8	306.3	297.3	292.4	289.0	286.1	284.1	282.7	281.0
30°	329.1	313.5	301.7	291.4	283.9	279.0	276.8	275.1	272.8	271.9	271.1
32.5°	311.6	297.6	287.5	278.5	271.5	268.2	266.3	264.7	262.9	262.0	260.2
35°	286.9	275.1	265.3	260.3	254.6	251.8	250.3	248.2	246.5	245.6	245.3
37.5°	263.6	253.4	246.9	240.6	238.2	236.5	234.4	233.0	232.4	232.3	232.1
40°	248.5	240.3	234.4	229.3	228.3	225.6	223.9	222.7	222.7	222.9	222.7
42.5°	234.9	227.3	222.3	217.8	216.6	215.1	213.3	213.3	213.6	214.3	213.6
45°	214.1	208.8	205.1	203.0	200.7	199.2	198.9	199.5	199.7	200.0	200.7
47.5°	195.0	191.4	188.1	185.8	184.7	184.5	184.3	185.4	186.4	186.8	187.8
50°	183.7	179.6	176.8	175.3	174.5	174.1	174.5	175.8	176.6	177.7	178.3
52.5°	171.1	168.1	166.3	165.0	164.8	165.0	165.0	166.5	167.9	168.3	168.6
55°	153.5	151.4	151.0	149.0	149.9	149.7	150.7	151.6	152.9	154.2	154.4
57.5°	136.0	134.3	133.2	133.4	133.7	134.6	135.4	137.0	138.3	139.7	139.8
60°	124.4	123.6	122.9	122.9	123.3	124.6	125.6	127.1	128.0	128.9	129.5
62.5°	113.8	112.9	112.3	112.6	113.8	114.5	115.7	116.6	117.4	118.3	118.6
65°	97.0	96.6	97.2	97.6	97.8	98.9	100.4	101.0	101.9	102.4	103.9
67.5°	81.5	81.6	81.5	82.1	83.4	83.6	85.0	86.5	86.7	87.6	88.5
70°	71.1	71.5	71.9	72.4	73.4	73.9	74.9	75.6	76.4	77.1	77.8
72.5°	61.5	61.5	62.0	61.9	62.9	63.7	64.7	65.3	66.2	67.0	67.6
75°	47.3	47.3	47.8	48.0	49.0	50.1	49.9	50.3	51.2	52.0	52.5
77.5°	34.6	34.1	34.6	34.8	35.2	36.0	36.2	36.8	37.8	37.5	38.0
80°	26.3	25.7	26.3	26.6	26.6	27.6	27.6	28.1	28.7	28.1	28.7
82.5°	18.8	18.5	18.9	19.0	19.3	19.4	19.7	19.8	20.5	20.2	20.5
85°	9.4	9.2	9.4	9.2	9.4	9.6	9.6	9.4	9.4	9.8	9.2
87.5°	5.2	5.6	6.3	7.6	8.6	8.6	8.3	8.1	7.7	7.7	7.9
90°	11.3	14.1	18.9	25.4	31.0	32.0	31.0	30.1	28.2	30.1	31.0
92.5°	33.8	42.7	64.0	93.9	120.6	122.2	103.3	82.0	70.4	62.5	56.6
95°	69.7	92.2	135.4	217.3	326.4	368.7	322.6	246.5	189.1	149.6	128.8
97.5°	98.8	124.3	178.7	292.8	474.1	629.5	660.3	575.1	470.5	368.7	300.9
100°	117.6	143.9	193.8	308.6	511.7	743.1	878.6	858.8	742.2	613.3	499.5
102.5°	134.9	161.3	207.4	309.3	497.5	746.9	959.9	1044.7	1018.4	924.2	803.5
105°	159.9	186.2	230.5	314.1	469.4	697.0	947.3	1142.9	1249.2	1261.5	1230.4
107.5°	184.7	211.3	254.2	327.2	455.4	643.7	864.7	1072.2	1232.3	1330.1	1375.6
110°	201.3	228.6	269.9	337.7	452.5	618.0	812.8	1011.3	1179.6	1300.0	1377.1



TEST NUMBER: P331269-830

CATALOG NUMBER: SA2XXDIP-C290D925U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	217.1	245.2	285.0	349.0	453.2	601.4	776.7	955.5	1117.2	1245.9	1334.3
115°	242.7	268.1	308.6	365.9	457.1	583.2	731.9	887.0	1031.9	1155.2	1252.1
117.5°	266.4	292.8	330.2	384.0	463.9	574.4	703.6	835.5	962.7	1074.4	1165.4
120°	282.2	308.6	345.3	396.1	468.4	569.1	688.6	809.9	926.6	1026.2	1111.9
122.5°	298.0	325.1	359.5	406.5	473.7	566.1	675.8	789.6	896.5	990.9	1068.3
125°	320.7	347.1	381.0	423.3	481.6	560.6	657.5	760.1	857.0	939.7	1010.3
127.5°	340.9	368.0	401.0	438.9	489.7	557.4	640.6	730.9	818.6	896.6	961.8
130°	353.7	380.0	412.9	448.7	495.8	555.9	629.3	712.1	793.0	867.3	929.4
132.5°	365.7	392.1	423.5	458.5	501.7	555.2	620.3	694.0	768.9	837.2	895.5
135°	381.9	408.2	438.4	471.3	508.9	554.0	607.7	668.8	730.9	793.0	845.6
137.5°	396.2	420.7	450.4	481.1	515.3	553.8	598.8	648.7	700.6	749.9	795.8
140°	404.5	429.0	457.1	486.4	518.3	553.1	593.6	635.9	681.1	724.3	765.7
142.5°	412.0	435.0	462.4	490.9	520.6	553.1	588.3	625.4	663.7	701.0	735.7
145°	424.2	445.0	470.3	496.7	523.0	551.2	581.4	610.5	641.6	670.7	698.0
147.5°	434.4	452.9	476.7	499.9	523.8	547.9	574.2	599.0	623.5	646.2	666.2
150°	441.2	458.1	479.8	501.3	523.0	545.6	568.2	590.8	611.4	631.2	648.1
152.5°	448.0	463.4	482.8	502.1	521.5	541.9	562.9	582.5	601.6	618.4	633.1
155°	457.1	471.3	487.3	503.2	519.2	535.3	553.1	571.0	586.1	600.1	610.5
157.5°	465.1	476.9	490.5	503.2	514.9	528.5	543.9	557.6	570.2	582.1	590.2
160°	470.3	480.7	492.0	503.2	512.6	524.0	537.2	549.3	559.7	570.0	576.6
162.5°	474.9	483.0	492.8	502.5	510.4	520.2	531.1	541.1	549.9	558.7	563.8
165°	479.8	485.4	493.9	500.5	506.1	512.6	521.1	528.7	535.3	541.9	545.6
167.5°	483.9	487.5	493.7	499.2	501.7	506.1	511.3	516.8	521.9	526.4	529.8
170°	485.4	488.2	492.9	497.7	499.5	502.3	506.1	510.8	513.6	517.4	519.2
172.5°	486.9	489.0	492.2	495.4	496.5	497.9	500.9	504.0	506.1	509.1	510.2
175°	488.2	489.2	491.1	492.9	492.0	492.9	493.9	496.7	497.7	498.6	499.5
177.5°	489.2	489.2	489.9	491.4	489.9	489.2	489.9	491.4	491.4	492.2	492.2
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2



TEST NUMBER: P331269-830

CATALOG NUMBER: SA2XXDIP-C290D925U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	534.3	534.0	534.0	532.4	534.0	534.0	534.3	536.0	536.6	536.9	536.2
5°	495.7	495.0	494.0	495.0	494.0	495.0	495.7	498.7	500.2	501.6	502.9
7.5°	457.4	454.9	454.5	451.9	454.5	454.9	457.4	458.8	461.8	465.2	468.3
10°	429.5	427.8	427.5	423.5	427.5	427.8	429.5	433.2	436.1	440.2	444.5
12.5°	408.3	404.2	405.0	402.7	405.0	404.2	408.3	408.3	411.8	414.3	421.0
15°	371.5	371.5	370.6	367.0	370.6	371.5	371.5	377.3	378.3	382.4	388.1
17.5°	345.1	344.6	342.6	343.7	342.6	344.6	345.1	349.3	350.1	355.4	360.2
20°	329.3	328.0	325.5	325.5	325.5	328.0	329.3	331.7	334.4	337.6	341.8
22.5°	314.4	314.3	311.6	312.5	311.6	314.3	314.4	316.6	319.2	322.7	326.1
25°	297.0	295.3	294.0	294.6	294.0	295.3	297.0	297.2	300.2	302.6	304.7
27.5°	280.4	279.5	279.4	277.7	279.4	279.5	280.4	281.0	282.7	284.1	286.1
30°	270.9	268.7	269.1	268.1	269.1	268.7	270.9	271.1	271.9	272.8	275.1
32.5°	259.9	259.1	258.7	257.8	258.7	259.1	259.9	260.2	262.0	262.9	264.7
35°	245.0	245.2	244.1	244.5	244.1	245.2	245.0	245.3	245.6	246.5	248.2
37.5°	231.9	232.5	232.1	232.1	232.1	232.5	231.9	232.1	232.3	232.4	233.0
40°	223.3	223.3	223.3	223.9	223.3	223.3	223.3	222.7	222.9	222.7	222.7
42.5°	215.1	214.7	214.4	214.3	214.4	214.7	215.1	213.6	214.3	213.6	213.3
45°	201.0	201.7	201.9	200.9	201.9	201.7	201.0	200.7	200.0	199.7	199.5
47.5°	188.3	188.4	188.3	189.3	188.3	188.4	188.3	187.8	186.8	186.4	185.4
50°	179.5	179.0	179.5	179.0	179.5	179.0	179.5	178.3	177.7	176.6	175.8
52.5°	170.0	170.1	169.8	169.8	169.8	170.1	170.0	168.6	168.3	167.9	166.5
55°	155.2	155.6	155.4	155.4	155.4	155.6	155.2	154.4	154.2	152.9	151.6
57.5°	140.0	140.3	140.6	139.7	140.6	140.3	140.0	139.8	139.7	138.3	137.0
60°	129.3	130.4	130.2	129.8	130.2	130.4	129.3	129.5	128.9	128.0	127.1
62.5°	119.5	120.0	119.9	119.8	119.9	120.0	119.5	118.6	118.3	117.4	116.6
65°	104.5	104.9	104.2	104.9	104.2	104.9	104.5	103.9	102.4	101.9	101.0
67.5°	88.2	88.4	88.9	89.2	88.9	88.4	88.2	88.5	87.6	86.7	86.5
70°	78.1	77.9	78.6	79.3	78.6	77.9	78.1	77.8	77.1	76.4	75.6
72.5°	67.5	68.0	67.8	68.2	67.8	68.0	67.5	67.6	67.0	66.2	65.3
75°	52.0	52.7	52.5	53.1	52.5	52.7	52.0	52.5	52.0	51.2	50.3
77.5°	37.6	37.7	37.6	38.0	37.6	37.7	37.6	38.0	37.5	37.8	36.8
80°	28.7	28.3	27.8	28.7	27.8	28.3	28.7	28.7	28.1	28.7	28.1
82.5°	20.0	20.2	19.8	19.8	19.8	20.2	20.0	20.5	20.2	20.5	19.8
85°	9.2	9.0	8.6	8.6	8.6	9.0	9.2	9.2	9.8	9.4	9.4
87.5°	7.9	7.7	7.7	7.5	7.7	7.7	7.9	7.9	7.7	7.7	8.1
90°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	30.1	28.2	30.1
92.5°	55.9	52.9	53.6	52.1	53.6	52.9	55.9	56.6	62.5	70.4	82.0
95°	116.7	109.1	106.3	107.3	106.3	109.1	116.7	128.8	149.6	189.1	246.5
97.5°	255.9	232.7	219.0	211.1	219.0	232.7	255.9	300.9	368.7	470.5	575.1
100°	421.4	381.0	353.7	336.8	353.7	381.0	421.4	499.5	613.3	742.2	858.8
102.5°	718.7	649.6	615.6	592.7	615.6	649.6	718.7	803.5	924.2	1018.4	1044.7
105°	1172.1	1113.8	1073.3	1060.2	1073.3	1113.8	1172.1	1230.4	1261.5	1249.2	1142.9
107.5°	1383.0	1379.8	1371.7	1354.2	1371.7	1379.8	1383.0	1375.6	1330.1	1232.3	1072.2
110°	1417.6	1435.5	1444.0	1443.0	1444.0	1435.5	1417.6	1377.1	1300.0	1179.6	1011.3



TEST NUMBER: P331269-830  
 CATALOG NUMBER: SA2XXDIP-C290D925U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1390.5	1420.4	1436.4	1441.5	1436.4	1420.4	1390.5	1334.3	1245.9	1117.2	955.5
115°	1318.8	1362.1	1386.6	1395.1	1386.6	1362.1	1318.8	1252.1	1155.2	1031.9	887.0
117.5°	1233.4	1279.1	1305.0	1312.0	1305.0	1279.1	1233.4	1165.4	1074.4	962.7	835.5
120°	1177.7	1221.9	1249.2	1258.7	1249.2	1221.9	1177.7	1111.9	1026.2	926.6	809.9
122.5°	1127.3	1170.7	1195.0	1203.0	1195.0	1170.7	1127.3	1068.3	990.9	896.5	789.6
125°	1064.9	1100.6	1124.1	1131.6	1124.1	1100.6	1064.9	1010.3	939.7	857.0	760.1
127.5°	1009.4	1042.8	1063.2	1069.2	1063.2	1042.8	1009.4	961.8	896.6	818.6	730.9
130°	975.5	1007.5	1026.2	1033.8	1026.2	1007.5	975.5	929.4	867.3	793.0	712.1
132.5°	940.8	972.9	990.1	996.9	990.1	972.9	940.8	895.5	837.2	768.9	694.0
135°	886.1	917.2	934.1	937.8	934.1	917.2	886.1	845.6	793.0	730.9	668.8
137.5°	832.7	859.4	874.3	880.0	874.3	859.4	832.7	795.8	749.9	700.6	648.7
140°	795.8	820.3	834.4	840.0	834.4	820.3	795.8	765.7	724.3	681.1	635.9
142.5°	764.2	786.5	799.0	800.1	799.0	786.5	764.2	735.7	701.0	663.7	625.4
145°	720.6	736.6	745.9	748.8	745.9	736.6	720.6	698.0	670.7	641.6	610.5
147.5°	684.9	697.6	704.0	705.7	704.0	697.6	684.9	666.2	646.2	623.5	599.0
150°	662.2	673.5	679.2	680.1	679.2	673.5	662.2	648.1	631.2	611.4	590.8
152.5°	644.1	653.9	658.1	658.3	658.1	653.9	644.1	633.1	618.4	601.6	582.5
155°	620.9	627.5	631.2	629.3	631.2	627.5	620.9	610.5	600.1	586.1	571.0
157.5°	597.5	602.9	604.6	604.6	604.6	602.9	597.5	590.2	582.1	570.2	557.6
160°	583.2	588.0	588.9	588.9	588.9	588.0	583.2	576.6	570.0	559.7	549.3
162.5°	570.4	573.6	574.6	573.8	574.6	573.6	570.4	563.8	558.7	549.9	541.1
165°	549.3	553.1	553.1	552.1	553.1	553.1	549.3	545.6	541.9	535.3	528.7
167.5°	531.5	533.6	533.4	532.3	533.4	533.6	531.5	529.8	526.4	521.9	516.8
170°	520.2	523.0	522.1	520.2	522.1	523.0	520.2	519.2	517.4	513.6	510.8
172.5°	511.1	512.5	511.5	510.4	511.5	512.5	511.1	510.2	509.1	506.1	504.0
175°	499.5	500.5	499.5	497.7	499.5	500.5	499.5	499.5	498.6	497.7	496.7
177.5°	492.2	492.2	491.4	489.9	491.4	492.2	492.2	492.2	492.2	491.4	491.4
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2



TEST NUMBER: P331269-830

CATALOG NUMBER: SA2XXDIP-C290D925U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	535.4	537.2	540.2	543.3	545.2	548.7	549.8	551.5	553.0	556.6	560.3
5°	504.4	507.5	514.5	518.4	523.7	529.9	534.0	538.3	543.0	551.1	558.6
7.5°	471.3	476.3	485.1	492.3	499.9	508.8	515.2	523.7	530.7	542.2	553.2
10°	449.2	456.3	464.2	472.8	483.4	492.9	501.9	512.6	521.1	534.9	547.7
12.5°	429.3	430.4	441.8	451.2	465.8	477.5	487.9	501.6	510.0	526.3	539.8
15°	394.6	401.1	411.3	418.8	436.1	450.9	465.5	479.8	489.5	509.6	527.4
17.5°	365.3	371.3	381.8	394.1	406.5	421.2	440.1	455.2	468.3	491.3	512.4
20°	346.9	354.1	364.9	377.5	388.4	404.4	420.8	438.1	452.2	478.2	502.8
22.5°	331.1	336.9	345.5	358.0	369.9	384.6	402.4	421.3	436.1	464.1	489.0
25°	309.0	313.7	319.2	329.5	343.0	359.1	373.0	393.8	415.4	441.5	471.6
27.5°	289.0	292.4	297.3	306.3	316.8	331.8	347.2	366.9	388.7	417.1	448.9
30°	276.8	279.0	283.9	291.4	301.7	313.5	329.1	347.9	370.2	398.9	430.6
32.5°	266.3	268.2	271.5	278.5	287.5	297.6	311.6	330.5	351.7	379.8	415.0
35°	250.3	251.8	254.6	260.3	265.3	275.1	286.9	304.1	324.0	350.9	387.3
37.5°	234.4	236.5	238.2	240.6	246.9	253.4	263.6	278.1	297.7	324.9	359.6
40°	223.9	225.6	228.3	229.3	234.4	240.3	248.5	261.8	281.5	306.4	340.3
42.5°	213.3	215.1	216.6	217.8	222.3	227.3	234.9	246.3	263.7	287.9	321.4
45°	198.9	199.2	200.7	203.0	205.1	208.8	214.1	223.9	237.4	260.1	290.6
47.5°	184.3	184.5	184.7	185.8	188.1	191.4	195.0	203.0	215.1	233.2	262.8
50°	174.5	174.1	174.5	175.3	176.8	179.6	183.7	189.5	199.3	216.2	243.5
52.5°	165.0	165.0	164.8	165.0	166.3	168.1	171.1	176.0	184.7	200.3	224.2
55°	150.7	149.7	149.9	149.0	151.0	151.4	153.5	157.6	165.3	176.0	198.5
57.5°	135.4	134.6	133.7	133.4	133.2	134.3	136.0	139.2	145.2	154.6	172.8
60°	125.6	124.6	123.3	122.9	122.9	123.6	124.4	126.8	132.3	140.6	155.6
62.5°	115.7	114.5	113.8	112.6	112.3	112.9	113.8	115.5	119.5	127.3	140.3
65°	100.4	98.9	97.8	97.6	97.2	96.6	97.0	98.7	101.9	108.1	118.4
67.5°	85.0	83.6	83.4	82.1	81.5	81.6	81.5	82.9	84.9	90.3	97.9
70°	74.9	73.9	73.4	72.4	71.9	71.5	71.1	72.4	74.3	78.8	85.4
72.5°	64.7	63.7	62.9	61.9	62.0	61.5	61.5	62.3	63.8	68.0	73.1
75°	49.9	50.1	49.0	48.0	47.8	47.3	47.3	48.0	48.6	51.8	55.9
77.5°	36.2	36.0	35.2	34.8	34.6	34.1	34.6	35.0	35.3	37.5	40.4
80°	27.6	27.6	26.6	26.6	26.3	25.7	26.3	25.9	26.8	28.9	31.0
82.5°	19.7	19.4	19.3	19.0	18.9	18.5	18.8	19.2	19.6	21.0	22.3
85°	9.6	9.6	9.4	9.2	9.4	9.2	9.4	9.6	9.8	10.5	11.6
87.5°	8.3	8.6	8.6	7.6	6.3	5.6	5.2	5.0	4.9	4.3	4.0
90°	31.0	32.0	31.0	25.4	18.9	14.1	11.3	9.4	7.5	3.8	0.9
92.5°	103.3	122.2	120.6	93.9	64.0	42.7	33.8	27.4	23.4	16.6	11.5
95°	322.6	368.7	326.4	217.3	135.4	92.2	69.7	54.6	46.1	36.7	32.9
97.5°	660.3	629.5	474.1	292.8	178.7	124.3	98.8	81.4	68.7	58.7	53.6
100°	878.6	743.1	511.7	308.6	193.8	143.9	117.6	98.8	83.7	75.2	72.4
102.5°	959.9	746.9	497.5	309.3	207.4	161.3	134.9	115.4	100.3	91.8	89.7
105°	947.3	697.0	469.4	314.1	230.5	186.2	159.9	139.2	125.1	118.6	114.8
107.5°	864.7	643.7	455.4	327.2	254.2	211.3	184.7	164.3	151.3	144.9	141.9
110°	812.8	618.0	452.5	337.7	269.9	228.6	201.3	181.5	169.3	163.7	159.9



TEST NUMBER: P331269-830

CATALOG NUMBER: SA2XXDIP-C290D925U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	776.7	601.4	453.2	349.0	285.0	245.2	217.1	198.1	186.6	180.2	176.4
115°	731.9	583.2	457.1	365.9	308.6	268.1	242.7	223.9	212.6	207.0	202.3
117.5°	703.6	574.4	463.9	384.0	330.2	292.8	266.4	248.4	238.4	232.7	228.9
120°	688.6	569.1	468.4	396.1	345.3	308.6	282.2	263.3	255.0	249.3	245.5
122.5°	675.8	566.1	473.7	406.5	359.5	325.1	298.0	279.2	269.9	264.3	261.4
125°	657.5	560.6	481.6	423.3	381.0	347.1	320.7	302.0	290.7	285.0	282.2
127.5°	640.6	557.4	489.7	438.9	401.0	368.0	340.9	322.8	310.4	302.6	298.8
130°	629.3	555.9	495.8	448.7	412.9	380.0	353.7	334.9	321.7	312.3	308.6
132.5°	620.3	555.2	501.7	458.5	423.5	392.1	365.7	346.2	332.2	322.1	317.5
135°	607.7	554.0	508.9	471.3	438.4	408.2	381.9	360.2	346.2	334.9	331.1
137.5°	598.8	553.8	515.3	481.1	450.4	420.7	396.2	374.8	359.7	348.5	343.9
140°	593.6	553.1	518.3	486.4	457.1	429.0	404.5	383.8	368.7	357.5	353.7
142.5°	588.3	553.1	520.6	490.9	462.4	435.0	412.0	392.1	377.0	366.5	363.4
145°	581.4	551.2	523.0	496.7	470.3	445.0	424.2	405.5	391.3	381.9	378.1
147.5°	574.2	547.9	523.8	499.9	476.7	452.9	434.4	418.8	405.8	396.8	394.0
150°	568.2	545.6	523.0	501.3	479.8	458.1	441.2	427.1	414.8	407.3	404.5
152.5°	562.9	541.9	521.5	502.1	482.8	463.4	448.0	434.6	423.9	416.3	415.0
155°	553.1	535.3	519.2	503.2	487.3	471.3	457.1	446.9	436.5	430.8	429.9
157.5°	543.9	528.5	514.9	503.2	490.5	476.9	465.1	456.8	447.8	443.3	442.3
160°	537.2	524.0	512.6	503.2	492.0	480.7	470.3	462.8	455.2	451.6	450.6
162.5°	531.1	520.2	510.4	502.5	492.8	483.0	474.9	468.1	462.0	458.3	458.8
165°	521.1	512.6	506.1	500.5	493.9	485.4	479.8	475.0	469.4	467.5	468.4
167.5°	511.3	506.1	501.7	499.2	493.7	487.5	483.9	480.5	476.9	475.2	476.4
170°	506.1	502.3	499.5	497.7	492.9	488.2	485.4	483.5	480.7	479.8	481.6
172.5°	500.9	497.9	496.5	495.4	492.2	489.0	486.9	485.8	483.0	483.5	484.7
175°	493.9	492.9	492.0	492.9	491.1	489.2	488.2	488.2	486.4	487.3	488.2
177.5°	489.9	489.2	489.9	491.4	489.9	489.2	489.2	489.2	487.7	488.4	489.9
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2



TEST NUMBER: P331269-830

CATALOG NUMBER: SA2XXDIP-C290D925U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	560.1	560.9	563.6	566.4	569.5	570.3	571.7	570.5	570.1	573.3	575.8
5°	561.7	565.4	573.0	579.9	585.6	589.7	594.0	595.7	598.9	603.3	609.0
7.5°	559.8	567.3	579.1	589.1	599.9	607.8	613.9	619.2	625.5	634.0	643.3
10°	557.8	567.8	582.2	594.4	607.7	617.7	626.0	634.2	643.7	655.4	667.6
12.5°	554.0	565.9	583.9	598.3	615.4	625.3	636.5	654.0	664.2	680.6	697.8
15°	546.4	559.7	584.8	602.5	621.8	640.6	661.4	678.1	694.7	704.5	728.6
17.5°	535.2	554.6	582.4	603.1	627.6	657.2	680.6	699.6	718.8	734.4	746.6
20°	526.0	547.2	579.0	603.8	632.9	664.8	691.5	710.9	727.5	740.6	748.1
22.5°	514.6	541.3	572.1	601.2	638.4	670.0	698.0	713.2	727.2	733.6	736.5
25°	496.5	528.7	563.5	599.1	641.0	674.5	700.1	709.4	713.4	707.2	696.9
27.5°	477.0	512.8	553.6	595.0	639.4	671.6	689.9	688.5	681.6	661.5	645.5
30°	462.5	501.9	545.7	591.0	635.5	666.8	677.4	666.8	651.1	628.7	605.7
32.5°	447.2	488.0	537.3	585.1	628.3	655.8	658.1	639.7	615.5	589.9	561.4
35°	424.1	468.3	521.6	572.1	613.0	630.4	620.1	587.5	558.8	524.0	484.9
37.5°	398.0	446.8	500.2	553.1	590.1	594.7	569.1	534.9	494.4	453.4	407.5
40°	378.5	430.2	485.2	538.5	571.3	566.6	534.0	496.3	448.2	398.0	355.4
42.5°	361.1	412.6	468.7	521.0	547.2	534.3	496.3	450.1	398.3	351.1	312.1
45°	330.8	383.9	441.3	491.8	506.8	483.4	433.2	381.7	330.8	291.4	260.6
47.5°	301.4	353.9	410.8	455.2	460.4	429.0	374.1	321.2	277.4	245.3	223.6
50°	279.8	332.5	388.8	428.5	426.7	388.8	332.3	282.0	245.3	219.4	204.9
52.5°	260.5	310.3	364.3	400.4	391.2	350.0	296.0	251.3	221.2	201.0	187.8
55°	230.4	276.4	327.8	356.8	340.0	294.2	248.5	212.6	190.3	175.1	164.9
57.5°	200.5	243.6	287.7	305.5	287.0	244.7	206.7	180.6	163.8	152.6	145.9
60°	182.0	219.7	258.8	274.3	252.2	214.5	184.5	161.3	147.7	138.6	132.5
62.5°	163.5	197.3	234.2	242.6	222.4	190.6	164.0	144.6	133.6	125.4	119.7
65°	138.3	166.0	194.0	199.5	181.0	156.3	135.3	122.7	112.8	106.9	102.4
67.5°	113.5	135.6	155.5	159.9	143.6	126.6	111.4	100.4	93.8	88.8	84.9
70°	98.7	116.3	132.5	136.2	123.1	107.9	96.3	87.6	81.5	77.3	73.6
72.5°	83.1	97.7	111.3	113.8	103.1	91.4	82.0	75.0	69.7	67.0	63.5
75°	63.6	72.2	82.7	83.3	76.3	69.2	61.9	57.4	54.6	51.2	49.5
77.5°	44.9	51.6	57.6	58.7	54.6	49.8	45.7	42.1	39.8	38.2	36.6
80°	34.2	39.6	42.2	43.6	40.7	37.2	34.9	32.5	31.0	30.0	28.9
82.5°	24.5	27.8	30.2	31.4	29.7	27.6	25.4	23.9	22.8	22.0	21.6
85°	12.4	13.9	15.5	15.8	15.5	14.5	13.3	13.3	12.6	12.4	12.4
87.5°	5.0	6.5	6.9	7.7	7.9	8.9	10.2	11.2	11.2	10.8	10.5
90°	3.8	7.5	9.4	11.3	14.1	18.9	25.4	31.0	32.0	31.0	30.1
92.5°	16.6	23.4	27.4	33.8	42.7	64.0	93.9	120.6	122.2	103.3	82.0
95°	36.7	46.1	54.6	69.7	92.2	135.4	217.3	326.4	368.7	322.6	246.5
97.5°	58.7	68.7	81.4	98.8	124.3	178.7	292.8	474.1	629.5	660.3	575.1
100°	75.2	83.7	98.8	117.6	143.9	193.8	308.6	511.7	743.1	878.6	858.8
102.5°	91.8	100.3	115.4	134.9	161.3	207.4	309.3	497.5	746.9	959.9	1044.7
105°	118.6	125.1	139.2	159.9	186.2	230.5	314.1	469.4	697.0	947.3	1142.9
107.5°	144.9	151.3	164.3	184.7	211.3	254.2	327.2	455.4	643.7	864.7	1072.2
110°	163.7	169.3	181.5	201.3	228.6	269.9	337.7	452.5	618.0	812.8	1011.3





TEST NUMBER: P331269-830

CATALOG NUMBER: SA2XXDIP-C290D925U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	180.2	186.6	198.1	217.1	245.2	285.0	349.0	453.2	601.4	776.7	955.5
115°	207.0	212.6	223.9	242.7	268.1	308.6	365.9	457.1	583.2	731.9	887.0
117.5°	232.7	238.4	248.4	266.4	292.8	330.2	384.0	463.9	574.4	703.6	835.5
120°	249.3	255.0	263.3	282.2	308.6	345.3	396.1	468.4	569.1	688.6	809.9
122.5°	264.3	269.9	279.2	298.0	325.1	359.5	406.5	473.7	566.1	675.8	789.6
125°	285.0	290.7	302.0	320.7	347.1	381.0	423.3	481.6	560.6	657.5	760.1
127.5°	302.6	310.4	322.8	340.9	368.0	401.0	438.9	489.7	557.4	640.6	730.9
130°	312.3	321.7	334.9	353.7	380.0	412.9	448.7	495.8	555.9	629.3	712.1
132.5°	322.1	332.2	346.2	365.7	392.1	423.5	458.5	501.7	555.2	620.3	694.0
135°	334.9	346.2	360.2	381.9	408.2	438.4	471.3	508.9	554.0	607.7	668.8
137.5°	348.5	359.7	374.8	396.2	420.7	450.4	481.1	515.3	553.8	598.8	648.7
140°	357.5	368.7	383.8	404.5	429.0	457.1	486.4	518.3	553.1	593.6	635.9
142.5°	366.5	377.0	392.1	412.0	435.0	462.4	490.9	520.6	553.1	588.3	625.4
145°	381.9	391.3	405.5	424.2	445.0	470.3	496.7	523.0	551.2	581.4	610.5
147.5°	396.8	405.8	418.8	434.4	452.9	476.7	499.9	523.8	547.9	574.2	599.0
150°	407.3	414.8	427.1	441.2	458.1	479.8	501.3	523.0	545.6	568.2	590.8
152.5°	416.3	423.9	434.6	448.0	463.4	482.8	502.1	521.5	541.9	562.9	582.5
155°	430.8	436.5	446.9	457.1	471.3	487.3	503.2	519.2	535.3	553.1	571.0
157.5°	443.3	447.8	456.8	465.1	476.9	490.5	503.2	514.9	528.5	543.9	557.6
160°	451.6	455.2	462.8	470.3	480.7	492.0	503.2	512.6	524.0	537.2	549.3
162.5°	458.3	462.0	468.1	474.9	483.0	492.8	502.5	510.4	520.2	531.1	541.1
165°	467.5	469.4	475.0	479.8	485.4	493.9	500.5	506.1	512.6	521.1	528.7
167.5°	475.2	476.9	480.5	483.9	487.5	493.7	499.2	501.7	506.1	511.3	516.8
170°	479.8	480.7	483.5	485.4	488.2	492.9	497.7	499.5	502.3	506.1	510.8
172.5°	483.5	483.0	485.8	486.9	489.0	492.2	495.4	496.5	497.9	500.9	504.0
175°	487.3	486.4	488.2	488.2	489.2	491.1	492.9	492.0	492.9	493.9	496.7
177.5°	488.4	487.7	489.2	489.2	489.2	489.9	491.4	489.9	489.2	489.9	491.4
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	577.9	580.2	580.2	580.6	583.3	583.0	582.8
5°	614.9	618.6	619.0	622.8	625.4	624.5	622.2
7.5°	649.9	656.7	661.9	664.7	668.1	670.1	669.2
10°	677.7	687.5	693.5	697.6	702.5	706.2	704.8
12.5°	702.9	714.5	722.8	729.8	730.4	735.1	731.9
15°	742.2	754.5	755.8	760.9	765.1	764.6	764.8
17.5°	755.1	759.0	759.9	760.0	760.1	758.6	755.3
20°	750.5	748.9	745.4	742.5	737.6	737.0	732.7
22.5°	728.5	723.8	714.6	708.6	701.0	699.0	697.8
25°	685.4	674.9	660.3	646.4	642.5	635.1	637.2
27.5°	626.1	609.8	594.0	582.8	572.5	561.3	564.5
30°	584.6	566.1	543.8	526.7	515.8	505.1	503.1
32.5°	534.9	507.8	483.1	468.0	451.2	444.4	437.1
35°	449.2	422.8	398.2	377.0	364.9	355.4	346.9
37.5°	372.2	341.9	322.0	304.8	296.0	290.6	292.0
40°	324.4	297.8	283.2	270.2	262.0	258.3	259.1
42.5°	285.7	265.8	253.8	244.9	239.1	237.0	236.5
45°	241.8	230.6	220.7	215.7	212.8	210.5	209.0
47.5°	211.8	202.6	197.1	194.1	191.6	189.3	189.2
50°	193.8	187.8	183.9	180.7	178.8	177.1	178.6
52.5°	180.0	174.6	170.7	167.9	167.1	165.6	165.5
55°	159.8	155.4	152.7	150.1	148.8	148.0	146.8
57.5°	141.2	137.1	134.6	133.0	130.5	129.7	129.3
60°	128.0	124.8	122.2	120.1	119.0	117.3	117.3
62.5°	115.8	112.6	110.3	108.7	106.9	106.2	106.4
65°	98.3	95.7	93.3	91.6	91.2	89.9	90.4
67.5°	82.1	80.4	77.9	76.9	76.2	75.5	74.9
70°	71.3	69.6	68.3	67.0	66.4	66.4	66.4
72.5°	62.2	60.1	59.4	57.8	58.2	57.5	56.7
75°	48.2	46.8	46.3	45.6	44.6	44.6	44.6
77.5°	35.4	35.1	34.3	33.6	33.4	33.2	33.3
80°	27.4	27.1	26.8	26.8	26.3	26.1	25.7
82.5°	21.1	20.5	20.3	20.1	20.0	20.0	19.9
85°	12.0	11.6	11.6	11.8	11.3	11.3	11.6
87.5°	10.3	10.7	10.7	10.7	10.8	10.7	10.7
90°	28.2	30.1	31.0	31.0	31.0	31.0	31.0
92.5°	70.4	62.5	56.6	55.9	52.9	53.6	52.1
95°	189.1	149.6	128.8	116.7	109.1	106.3	107.3
97.5°	470.5	368.7	300.9	255.9	232.7	219.0	211.1
100°	742.2	613.3	499.5	421.4	381.0	353.7	336.8
102.5°	1018.4	924.2	803.5	718.7	649.6	615.6	592.7
105°	1249.2	1261.5	1230.4	1172.1	1113.8	1073.3	1060.2
107.5°	1232.3	1330.1	1375.6	1383.0	1379.8	1371.7	1354.2
110°	1179.6	1300.0	1377.1	1417.6	1435.5	1444.0	1443.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1117.2	1245.9	1334.3	1390.5	1420.4	1436.4	1441.5
115°	1031.9	1155.2	1252.1	1318.8	1362.1	1386.6	1395.1
117.5°	962.7	1074.4	1165.4	1233.4	1279.1	1305.0	1312.0
120°	926.6	1026.2	1111.9	1177.7	1221.9	1249.2	1258.7
122.5°	896.5	990.9	1068.3	1127.3	1170.7	1195.0	1203.0
125°	857.0	939.7	1010.3	1064.9	1100.6	1124.1	1131.6
127.5°	818.6	896.6	961.8	1009.4	1042.8	1063.2	1069.2
130°	793.0	867.3	929.4	975.5	1007.5	1026.2	1033.8
132.5°	768.9	837.2	895.5	940.8	972.9	990.1	996.9
135°	730.9	793.0	845.6	886.1	917.2	934.1	937.8
137.5°	700.6	749.9	795.8	832.7	859.4	874.3	880.0
140°	681.1	724.3	765.7	795.8	820.3	834.4	840.0
142.5°	663.7	701.0	735.7	764.2	786.5	799.0	800.1
145°	641.6	670.7	698.0	720.6	736.6	745.9	748.8
147.5°	623.5	646.2	666.2	684.9	697.6	704.0	705.7
150°	611.4	631.2	648.1	662.2	673.5	679.2	680.1
152.5°	601.6	618.4	633.1	644.1	653.9	658.1	658.3
155°	586.1	600.1	610.5	620.9	627.5	631.2	629.3
157.5°	570.2	582.1	590.2	597.5	602.9	604.6	604.6
160°	559.7	570.0	576.6	583.2	588.0	588.9	588.9
162.5°	549.9	558.7	563.8	570.4	573.6	574.6	573.8
165°	535.3	541.9	545.6	549.3	553.1	553.1	552.1
167.5°	521.9	526.4	529.8	531.5	533.6	533.4	532.3
170°	513.6	517.4	519.2	520.2	523.0	522.1	520.2
172.5°	506.1	509.1	510.2	511.1	512.5	511.5	510.4
175°	497.7	498.6	499.5	499.5	500.5	499.5	497.7
177.5°	491.4	492.2	492.2	492.2	492.2	491.4	489.9
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2

(END OF REPORT)