

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: P331260-830

Luminaire Tested: **S122DIP-S290D725U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331260-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S290D725U830-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3898.6 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

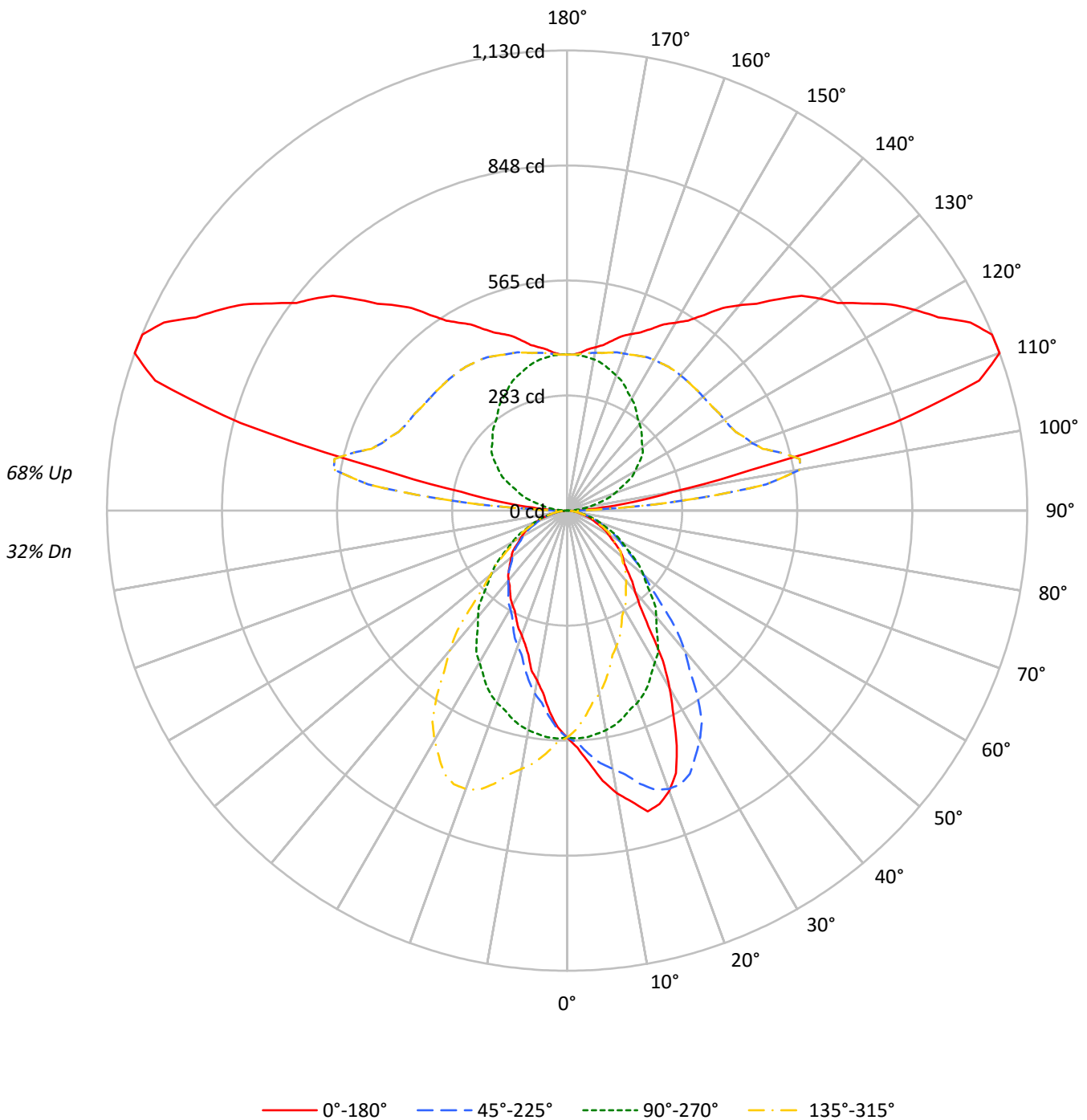
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	32																				
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	34	34	27																				
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29	23																				
3	78	69	63	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20																				
4	72	62	54	48	64	56	49	44	45	40	37	35	32	29	25	23	22	17																				
5	66	55	47	41	59	50	43	38	40	35	32	31	28	25	23	21	19	15																				
6	61	49	42	36	55	45	38	33	36	31	28	28	25	22	21	19	17	14																				
7	56	44	37	32	50	40	34	29	33	28	24	26	22	20	19	17	15	12																				
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	15	14	11																				
9	48	37	30	25	44	34	27	23	27	23	19	22	18	16	16	14	12	10																				
10	45	34	27	22	41	31	25	21	25	21	17	20	17	14	15	13	11	9																				

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	1.4
10°-20°	154.2	4.0
20°-30°	223.9	5.7
30°-40°	236.2	6.1
40°-50°	209.2	5.4
50°-60°	166.9	4.3
60°-70°	113.4	2.9
70°-80°	58.2	1.5
80°-90°	17.5	0.4
90°-100°	153.2	3.9
100°-110°	519.8	13.3
110°-120°	552.3	14.2
120°-130°	454.6	11.7
130°-140°	365.1	9.4
140°-150°	275.9	7.1
150°-160°	193.9	5.0
160°-170°	114.1	2.9
170°-180°	37.1	1.0
0°-30°	431.2	11.1
0°-40°	667.4	17.1
0°-60°	1043.5	26.8
0°-90°	1232.6	31.6
90°-120°	1225.3	31.4
90°-150°	2320.9	59.5
90°-180°	2666.0	68.4
0°-180°	3898.6	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	13
90°	24	1	24	1	24	14
95°	84	26	84	26	84	109
105°	830	90	830	90	830	803
115°	1093	158	1093	158	1093	1070
125°	886	221	886	221	886	801
135°	735	259	735	259	735	571
145°	586	296	586	296	586	372
155°	493	337	493	337	493	230
165°	432	367	432	367	432	124
175°	390	382	390	382	390	38
180°	383	383	383	383	383	



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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°	9.3	9.3	9.5	9.3	9.3	9.3	9.0	9.1	9.5	9.8	9.8
90°	24.3	24.3	24.3	24.3	24.3	23.6	22.1	23.6	24.3	25.1	24.3
92.5°	40.8	42.0	41.4	43.7	44.4	48.9	55.1	64.3	80.9	95.8	94.4
95°	84.0	83.2	85.5	91.3	100.9	117.2	148.1	193.0	252.7	288.8	255.7
97.5°	165.3	171.5	182.3	200.4	235.6	288.8	368.5	450.4	517.3	493.0	371.4
100°	263.7	277.0	298.4	330.1	391.2	480.4	581.4	672.7	688.2	582.0	400.8
102.5°	464.2	482.1	508.8	562.9	629.3	723.8	797.7	818.3	751.8	585.0	389.6
105°	830.4	840.7	872.3	918.0	963.7	988.1	978.5	895.2	742.0	545.9	367.7
107.5°	1060.6	1074.4	1080.7	1083.3	1077.5	1041.8	965.2	839.8	677.2	504.1	356.8
110°	1130.2	1131.0	1124.4	1110.3	1078.6	1018.2	924.0	792.0	636.6	484.1	354.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1129.1	1125.1	1112.6	1089.1	1045.1	975.8	875.0	748.5	608.3	471.1	355.0
115°	1092.7	1086.0	1066.9	1032.9	980.6	904.7	808.2	694.7	573.3	456.9	358.1
117.5°	1027.7	1022.1	1001.9	966.1	912.8	841.6	754.0	654.4	551.1	449.9	363.4
120°	985.8	978.5	957.1	922.5	870.9	803.8	725.8	634.3	539.3	445.7	366.9
122.5°	942.2	936.0	917.0	883.0	836.7	776.1	702.2	618.5	529.3	443.4	371.1
125°	886.4	880.4	862.0	834.1	791.3	736.0	671.2	595.3	515.0	439.1	377.2
127.5°	837.4	832.7	816.8	790.6	753.3	702.3	641.1	572.5	501.7	436.6	383.6
130°	809.7	803.8	789.1	764.0	727.9	679.3	621.1	557.7	492.9	435.5	388.3
132.5°	780.8	775.5	762.0	737.0	701.4	655.7	602.3	543.6	485.9	434.9	393.0
135°	734.6	731.6	718.4	694.1	662.3	621.1	572.5	523.9	476.0	433.9	398.6
137.5°	689.2	684.8	673.2	652.2	623.3	587.4	548.7	508.1	469.0	433.9	403.6
140°	658.0	653.6	642.4	623.3	599.7	567.3	533.5	498.0	465.0	433.2	406.0
142.5°	626.7	625.8	616.0	598.6	576.2	549.0	519.9	489.8	460.8	433.2	407.7
145°	586.4	584.3	576.9	564.4	546.7	525.4	502.5	478.2	455.3	431.8	409.6
147.5°	552.7	551.4	546.4	536.4	521.8	506.1	488.3	469.2	449.8	429.1	410.3
150°	532.7	532.0	527.5	518.7	507.7	494.4	478.9	462.7	445.0	427.3	409.6
152.5°	515.6	515.5	512.2	504.5	495.9	484.4	471.3	456.2	440.9	424.4	408.5
155°	492.9	494.4	491.4	486.3	478.2	470.0	459.0	447.2	433.2	419.2	406.7
157.5°	473.6	473.6	472.3	468.0	462.2	455.9	446.7	436.8	426.0	414.0	403.3
160°	461.2	461.2	460.5	456.9	451.7	446.5	438.4	430.3	420.8	410.4	401.5
162.5°	449.4	450.1	449.3	446.8	441.7	437.6	430.7	423.8	415.9	407.5	399.8
165°	432.5	433.2	433.2	430.3	427.3	424.4	419.2	414.1	408.2	401.5	396.4
167.5°	416.9	417.7	417.9	416.3	415.0	412.3	408.8	404.8	400.5	396.4	393.0
170°	407.5	408.9	409.6	407.5	406.7	405.2	402.3	400.1	396.4	393.4	391.2
172.5°	399.8	400.7	401.4	400.4	399.6	398.8	396.4	394.7	392.3	389.9	388.9
175°	389.7	391.2	392.0	391.2	391.2	390.5	389.7	389.0	386.8	386.1	385.3
177.5°	383.7	384.9	385.5	385.5	385.5	385.5	384.9	384.9	383.7	383.1	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



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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°	9.1	8.1	7.4	7.3	6.4	6.1	4.9	4.0	4.1	4.6	4.5
90°	19.9	14.7	11.0	8.9	7.4	5.9	2.9	0.8	2.9	5.9	7.4
92.5°	73.5	50.1	33.5	26.5	21.5	18.3	13.0	9.0	13.0	18.3	21.5
95°	170.2	106.1	72.2	54.5	42.7	36.1	28.7	25.8	28.7	36.1	42.7
97.5°	229.3	140.0	97.4	77.4	63.8	53.8	46.0	42.0	46.0	53.8	63.8
100°	241.7	151.7	112.7	92.1	77.4	65.6	58.9	56.7	58.9	65.6	77.4
102.5°	242.2	162.4	126.3	105.7	90.3	78.5	71.9	70.3	71.9	78.5	90.3
105°	246.1	180.5	145.9	125.3	109.1	98.0	92.8	89.9	92.8	98.0	109.1
107.5°	256.3	199.1	165.5	144.7	128.7	118.5	113.5	111.1	113.5	118.5	128.7
110°	264.5	211.4	179.1	157.7	142.2	132.6	128.2	125.3	128.2	132.6	142.2



TEST NUMBER: P331260-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	273.3	223.3	192.0	170.0	155.1	146.2	141.2	138.2	141.2	146.2	155.1
115°	286.6	241.7	210.0	190.1	175.3	166.5	162.1	158.4	162.1	166.5	175.3
117.5°	300.8	258.6	229.3	208.7	194.5	186.7	182.3	179.4	182.3	186.7	194.5
120°	310.2	270.4	241.7	221.0	206.3	199.6	195.3	192.3	195.3	199.6	206.3
122.5°	318.5	281.6	254.7	233.4	218.7	211.4	207.1	204.7	207.1	211.4	218.7
125°	331.6	298.4	271.8	251.3	236.5	227.6	223.3	221.0	223.3	227.6	236.5
127.5°	343.7	314.1	288.2	267.0	252.9	243.2	237.0	234.0	237.0	243.2	252.9
130°	351.5	323.5	297.7	277.0	262.3	251.9	244.6	241.7	244.6	251.9	262.3
132.5°	359.1	331.7	307.1	286.4	271.2	260.2	252.3	248.7	252.3	260.2	271.2
135°	369.1	343.4	319.8	299.2	282.2	271.2	262.3	259.4	262.3	271.2	282.2
137.5°	376.8	352.8	329.5	310.4	293.5	281.7	272.9	269.4	272.9	281.7	293.5
140°	380.9	358.1	336.0	316.8	300.6	288.8	279.9	277.0	279.9	288.8	300.6
142.5°	384.5	362.2	340.7	322.7	307.1	295.3	287.1	284.6	287.1	295.3	307.1
145°	389.0	368.4	348.5	332.2	317.5	306.5	299.2	296.1	299.2	306.5	317.5
147.5°	391.5	373.4	354.7	340.3	328.0	317.8	310.8	308.6	310.8	317.8	328.0
150°	392.7	375.8	358.8	345.5	334.5	324.9	319.1	316.8	319.1	324.9	334.5
152.5°	393.3	378.1	363.0	350.8	340.4	332.0	326.1	325.1	326.1	332.0	340.4
155°	394.2	381.6	369.1	358.1	350.0	341.9	337.4	336.7	337.4	341.9	350.0
157.5°	394.2	384.2	373.5	364.3	357.8	350.7	347.1	346.5	347.1	350.7	357.8
160°	394.2	385.3	376.5	368.4	362.5	356.6	353.6	352.9	353.6	356.6	362.5
162.5°	393.6	386.0	378.2	371.9	366.6	361.9	358.9	359.4	358.9	361.9	366.6
165°	392.0	386.8	380.2	375.8	372.1	367.7	366.2	366.9	366.2	367.7	372.1
167.5°	391.0	386.6	381.8	379.0	376.4	373.5	372.2	373.2	372.2	373.5	376.4
170°	389.7	386.1	382.4	380.2	378.7	376.5	375.8	377.2	375.8	376.5	378.7
172.5°	388.0	385.5	383.0	381.4	380.5	378.2	378.7	379.6	378.7	378.2	380.5
175°	386.1	384.6	383.1	382.4	382.4	380.9	381.6	382.4	381.6	380.9	382.4
177.5°	384.9	383.7	383.1	383.1	383.1	381.9	382.6	383.7	382.6	381.9	383.1
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331260-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-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°	4.7	5.0	5.6	6.5	7.3	7.3	6.9	6.8	6.5	6.4	6.6
90°	8.9	11.0	14.7	19.9	24.3	25.1	24.3	23.6	22.1	23.6	24.3
92.5°	26.5	33.5	50.1	73.5	94.4	95.8	80.9	64.3	55.1	48.9	44.4
95°	54.5	72.2	106.1	170.2	255.7	288.8	252.7	193.0	148.1	117.2	100.9
97.5°	77.4	97.4	140.0	229.3	371.4	493.0	517.3	450.4	368.5	288.8	235.6
100°	92.1	112.7	151.7	241.7	400.8	582.0	688.2	672.7	581.4	480.4	391.2
102.5°	105.7	126.3	162.4	242.2	389.6	585.0	751.8	818.3	797.7	723.8	629.3
105°	125.3	145.9	180.5	246.1	367.7	545.9	742.0	895.2	978.5	988.1	963.7
107.5°	144.7	165.5	199.1	256.3	356.8	504.1	677.2	839.8	965.2	1041.8	1077.5
110°	157.7	179.1	211.4	264.5	354.4	484.1	636.6	792.0	924.0	1018.2	1078.6



TEST NUMBER: P331260-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.0	192.0	223.3	273.3	355.0	471.1	608.3	748.5	875.0	975.8	1045.1
115°	190.1	210.0	241.7	286.6	358.1	456.9	573.3	694.7	808.2	904.7	980.6
117.5°	208.7	229.3	258.6	300.8	363.4	449.9	551.1	654.4	754.0	841.6	912.8
120°	221.0	241.7	270.4	310.2	366.9	445.7	539.3	634.3	725.8	803.8	870.9
122.5°	233.4	254.7	281.6	318.5	371.1	443.4	529.3	618.5	702.2	776.1	836.7
125°	251.3	271.8	298.4	331.6	377.2	439.1	515.0	595.3	671.2	736.0	791.3
127.5°	267.0	288.2	314.1	343.7	383.6	436.6	501.7	572.5	641.1	702.3	753.3
130°	277.0	297.7	323.5	351.5	388.3	435.5	492.9	557.7	621.1	679.3	727.9
132.5°	286.4	307.1	331.7	359.1	393.0	434.9	485.9	543.6	602.3	655.7	701.4
135°	299.2	319.8	343.4	369.1	398.6	433.9	476.0	523.9	572.5	621.1	662.3
137.5°	310.4	329.5	352.8	376.8	403.6	433.9	469.0	508.1	548.7	587.4	623.3
140°	316.8	336.0	358.1	380.9	406.0	433.2	465.0	498.0	533.5	567.3	599.7
142.5°	322.7	340.7	362.2	384.5	407.7	433.2	460.8	489.8	519.9	549.0	576.2
145°	332.2	348.5	368.4	389.0	409.6	431.8	455.3	478.2	502.5	525.4	546.7
147.5°	340.3	354.7	373.4	391.5	410.3	429.1	449.8	469.2	488.3	506.1	521.8
150°	345.5	358.8	375.8	392.7	409.6	427.3	445.0	462.7	478.9	494.4	507.7
152.5°	350.8	363.0	378.1	393.3	408.5	424.4	440.9	456.2	471.3	484.4	495.9
155°	358.1	369.1	381.6	394.2	406.7	419.2	433.2	447.2	459.0	470.0	478.2
157.5°	364.3	373.5	384.2	394.2	403.3	414.0	426.0	436.8	446.7	455.9	462.2
160°	368.4	376.5	385.3	394.2	401.5	410.4	420.8	430.3	438.4	446.5	451.7
162.5°	371.9	378.2	386.0	393.6	399.8	407.5	415.9	423.8	430.7	437.6	441.7
165°	375.8	380.2	386.8	392.0	396.4	401.5	408.2	414.1	419.2	424.4	427.3
167.5°	379.0	381.8	386.6	391.0	393.0	396.4	400.5	404.8	408.8	412.3	415.0
170°	380.2	382.4	386.1	389.7	391.2	393.4	396.4	400.1	402.3	405.2	406.7
172.5°	381.4	383.0	385.5	388.0	388.9	389.9	392.3	394.7	396.4	398.8	399.6
175°	382.4	383.1	384.6	386.1	385.3	386.1	386.8	389.0	389.7	390.5	391.2
177.5°	383.1	383.1	383.7	384.9	383.7	383.1	383.7	384.9	384.9	385.5	385.5
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331260-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-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°	6.6	6.4	6.4	6.2	6.4	6.4	6.6	6.6	6.4	6.5	6.8
90°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	23.6	22.1	23.6
92.5°	43.7	41.4	42.0	40.8	42.0	41.4	43.7	44.4	48.9	55.1	64.3
95°	91.3	85.5	83.2	84.0	83.2	85.5	91.3	100.9	117.2	148.1	193.0
97.5°	200.4	182.3	171.5	165.3	171.5	182.3	200.4	235.6	288.8	368.5	450.4
100°	330.1	298.4	277.0	263.7	277.0	298.4	330.1	391.2	480.4	581.4	672.7
102.5°	562.9	508.8	482.1	464.2	482.1	508.8	562.9	629.3	723.8	797.7	818.3
105°	918.0	872.3	840.7	830.4	840.7	872.3	918.0	963.7	988.1	978.5	895.2
107.5°	1083.3	1080.7	1074.4	1060.6	1074.4	1080.7	1083.3	1077.5	1041.8	965.2	839.8
110°	1110.3	1124.4	1131.0	1130.2	1131.0	1124.4	1110.3	1078.6	1018.2	924.0	792.0



TEST NUMBER: P331260-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1089.1	1112.6	1125.1	1129.1	1125.1	1112.6	1089.1	1045.1	975.8	875.0	748.5
115°	1032.9	1066.9	1086.0	1092.7	1086.0	1066.9	1032.9	980.6	904.7	808.2	694.7
117.5°	966.1	1001.9	1022.1	1027.7	1022.1	1001.9	966.1	912.8	841.6	754.0	654.4
120°	922.5	957.1	978.5	985.8	978.5	957.1	922.5	870.9	803.8	725.8	634.3
122.5°	883.0	917.0	936.0	942.2	936.0	917.0	883.0	836.7	776.1	702.2	618.5
125°	834.1	862.0	880.4	886.4	880.4	862.0	834.1	791.3	736.0	671.2	595.3
127.5°	790.6	816.8	832.7	837.4	832.7	816.8	790.6	753.3	702.3	641.1	572.5
130°	764.0	789.1	803.8	809.7	803.8	789.1	764.0	727.9	679.3	621.1	557.7
132.5°	737.0	762.0	775.5	780.8	775.5	762.0	737.0	701.4	655.7	602.3	543.6
135°	694.1	718.4	731.6	734.6	731.6	718.4	694.1	662.3	621.1	572.5	523.9
137.5°	652.2	673.2	684.8	689.2	684.8	673.2	652.2	623.3	587.4	548.7	508.1
140°	623.3	642.4	653.6	658.0	653.6	642.4	623.3	599.7	567.3	533.5	498.0
142.5°	598.6	616.0	625.8	626.7	625.8	616.0	598.6	576.2	549.0	519.9	489.8
145°	564.4	576.9	584.3	586.4	584.3	576.9	564.4	546.7	525.4	502.5	478.2
147.5°	536.4	546.4	551.4	552.7	551.4	546.4	536.4	521.8	506.1	488.3	469.2
150°	518.7	527.5	532.0	532.7	532.0	527.5	518.7	507.7	494.4	478.9	462.7
152.5°	504.5	512.2	515.5	515.6	515.5	512.2	504.5	495.9	484.4	471.3	456.2
155°	486.3	491.4	494.4	492.9	494.4	491.4	486.3	478.2	470.0	459.0	447.2
157.5°	468.0	472.3	473.6	473.6	473.6	472.3	468.0	462.2	455.9	446.7	436.8
160°	456.9	460.5	461.2	461.2	461.2	460.5	456.9	451.7	446.5	438.4	430.3
162.5°	446.8	449.3	450.1	449.4	450.1	449.3	446.8	441.7	437.6	430.7	423.8
165°	430.3	433.2	433.2	432.5	433.2	433.2	430.3	427.3	424.4	419.2	414.1
167.5°	416.3	417.9	417.7	416.9	417.7	417.9	416.3	415.0	412.3	408.8	404.8
170°	407.5	409.6	408.9	407.5	408.9	409.6	407.5	406.7	405.2	402.3	400.1
172.5°	400.4	401.4	400.7	399.8	400.7	401.4	400.4	399.6	398.8	396.4	394.7
175°	391.2	392.0	391.2	389.7	391.2	392.0	391.2	391.2	390.5	389.7	389.0
177.5°	385.5	385.5	384.9	383.7	384.9	385.5	385.5	385.5	385.5	384.9	384.9
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331260-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-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°	6.9	7.3	7.3	6.5	5.6	5.0	4.7	4.5	4.6	4.1	4.0
90°	24.3	25.1	24.3	19.9	14.7	11.0	8.9	7.4	5.9	2.9	0.8
92.5°	80.9	95.8	94.4	73.5	50.1	33.5	26.5	21.5	18.3	13.0	9.0
95°	252.7	288.8	255.7	170.2	106.1	72.2	54.5	42.7	36.1	28.7	25.8
97.5°	517.3	493.0	371.4	229.3	140.0	97.4	77.4	63.8	53.8	46.0	42.0
100°	688.2	582.0	400.8	241.7	151.7	112.7	92.1	77.4	65.6	58.9	56.7
102.5°	751.8	585.0	389.6	242.2	162.4	126.3	105.7	90.3	78.5	71.9	70.3
105°	742.0	545.9	367.7	246.1	180.5	145.9	125.3	109.1	98.0	92.8	89.9
107.5°	677.2	504.1	356.8	256.3	199.1	165.5	144.7	128.7	118.5	113.5	111.1
110°	636.6	484.1	354.4	264.5	211.4	179.1	157.7	142.2	132.6	128.2	125.3



TEST NUMBER: P331260-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	608.3	471.1	355.0	273.3	223.3	192.0	170.0	155.1	146.2	141.2	138.2
115°	573.3	456.9	358.1	286.6	241.7	210.0	190.1	175.3	166.5	162.1	158.4
117.5°	551.1	449.9	363.4	300.8	258.6	229.3	208.7	194.5	186.7	182.3	179.4
120°	539.3	445.7	366.9	310.2	270.4	241.7	221.0	206.3	199.6	195.3	192.3
122.5°	529.3	443.4	371.1	318.5	281.6	254.7	233.4	218.7	211.4	207.1	204.7
125°	515.0	439.1	377.2	331.6	298.4	271.8	251.3	236.5	227.6	223.3	221.0
127.5°	501.7	436.6	383.6	343.7	314.1	288.2	267.0	252.9	243.2	237.0	234.0
130°	492.9	435.5	388.3	351.5	323.5	297.7	277.0	262.3	251.9	244.6	241.7
132.5°	485.9	434.9	393.0	359.1	331.7	307.1	286.4	271.2	260.2	252.3	248.7
135°	476.0	433.9	398.6	369.1	343.4	319.8	299.2	282.2	271.2	262.3	259.4
137.5°	469.0	433.9	403.6	376.8	352.8	329.5	310.4	293.5	281.7	272.9	269.4
140°	465.0	433.2	406.0	380.9	358.1	336.0	316.8	300.6	288.8	279.9	277.0
142.5°	460.8	433.2	407.7	384.5	362.2	340.7	322.7	307.1	295.3	287.1	284.6
145°	455.3	431.8	409.6	389.0	368.4	348.5	332.2	317.5	306.5	299.2	296.1
147.5°	449.8	429.1	410.3	391.5	373.4	354.7	340.3	328.0	317.8	310.8	308.6
150°	445.0	427.3	409.6	392.7	375.8	358.8	345.5	334.5	324.9	319.1	316.8
152.5°	440.9	424.4	408.5	393.3	378.1	363.0	350.8	340.4	332.0	326.1	325.1
155°	433.2	419.2	406.7	394.2	381.6	369.1	358.1	350.0	341.9	337.4	336.7
157.5°	426.0	414.0	403.3	394.2	384.2	373.5	364.3	357.8	350.7	347.1	346.5
160°	420.8	410.4	401.5	394.2	385.3	376.5	368.4	362.5	356.6	353.6	352.9
162.5°	415.9	407.5	399.8	393.6	386.0	378.2	371.9	366.6	361.9	358.9	359.4
165°	408.2	401.5	396.4	392.0	386.8	380.2	375.8	372.1	367.7	366.2	366.9
167.5°	400.5	396.4	393.0	391.0	386.6	381.8	379.0	376.4	373.5	372.2	373.2
170°	396.4	393.4	391.2	389.7	386.1	382.4	380.2	378.7	376.5	375.8	377.2
172.5°	392.3	389.9	388.9	388.0	385.5	383.0	381.4	380.5	378.2	378.7	379.6
175°	386.8	386.1	385.3	386.1	384.6	383.1	382.4	382.4	380.9	381.6	382.4
177.5°	383.7	383.1	383.7	384.9	383.7	383.1	383.1	383.1	381.9	382.6	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331260-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-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°	4.9	6.1	6.4	7.3	7.4	8.1	9.1	9.8	9.8	9.5	9.1
90°	2.9	5.9	7.4	8.9	11.0	14.7	19.9	24.3	25.1	24.3	23.6
92.5°	13.0	18.3	21.5	26.5	33.5	50.1	73.5	94.4	95.8	80.9	64.3
95°	28.7	36.1	42.7	54.5	72.2	106.1	170.2	255.7	288.8	252.7	193.0
97.5°	46.0	53.8	63.8	77.4	97.4	140.0	229.3	371.4	493.0	517.3	450.4
100°	58.9	65.6	77.4	92.1	112.7	151.7	241.7	400.8	582.0	688.2	672.7
102.5°	71.9	78.5	90.3	105.7	126.3	162.4	242.2	389.6	585.0	751.8	818.3
105°	92.8	98.0	109.1	125.3	145.9	180.5	246.1	367.7	545.9	742.0	895.2
107.5°	113.5	118.5	128.7	144.7	165.5	199.1	256.3	356.8	504.1	677.2	839.8
110°	128.2	132.6	142.2	157.7	179.1	211.4	264.5	354.4	484.1	636.6	792.0



TEST NUMBER: P331260-830

CATALOG NUMBER: S122DIP-S290D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	141.2	146.2	155.1	170.0	192.0	223.3	273.3	355.0	471.1	608.3	748.5
115°	162.1	166.5	175.3	190.1	210.0	241.7	286.6	358.1	456.9	573.3	694.7
117.5°	182.3	186.7	194.5	208.7	229.3	258.6	300.8	363.4	449.9	551.1	654.4
120°	195.3	199.6	206.3	221.0	241.7	270.4	310.2	366.9	445.7	539.3	634.3
122.5°	207.1	211.4	218.7	233.4	254.7	281.6	318.5	371.1	443.4	529.3	618.5
125°	223.3	227.6	236.5	251.3	271.8	298.4	331.6	377.2	439.1	515.0	595.3
127.5°	237.0	243.2	252.9	267.0	288.2	314.1	343.7	383.6	436.6	501.7	572.5
130°	244.6	251.9	262.3	277.0	297.7	323.5	351.5	388.3	435.5	492.9	557.7
132.5°	252.3	260.2	271.2	286.4	307.1	331.7	359.1	393.0	434.9	485.9	543.6
135°	262.3	271.2	282.2	299.2	319.8	343.4	369.1	398.6	433.9	476.0	523.9
137.5°	272.9	281.7	293.5	310.4	329.5	352.8	376.8	403.6	433.9	469.0	508.1
140°	279.9	288.8	300.6	316.8	336.0	358.1	380.9	406.0	433.2	465.0	498.0
142.5°	287.1	295.3	307.1	322.7	340.7	362.2	384.5	407.7	433.2	460.8	489.8
145°	299.2	306.5	317.5	332.2	348.5	368.4	389.0	409.6	431.8	455.3	478.2
147.5°	310.8	317.8	328.0	340.3	354.7	373.4	391.5	410.3	429.1	449.8	469.2
150°	319.1	324.9	334.5	345.5	358.8	375.8	392.7	409.6	427.3	445.0	462.7
152.5°	326.1	332.0	340.4	350.8	363.0	378.1	393.3	408.5	424.4	440.9	456.2
155°	337.4	341.9	350.0	358.1	369.1	381.6	394.2	406.7	419.2	433.2	447.2
157.5°	347.1	350.7	357.8	364.3	373.5	384.2	394.2	403.3	414.0	426.0	436.8
160°	353.6	356.6	362.5	368.4	376.5	385.3	394.2	401.5	410.4	420.8	430.3
162.5°	358.9	361.9	366.6	371.9	378.2	386.0	393.6	399.8	407.5	415.9	423.8
165°	366.2	367.7	372.1	375.8	380.2	386.8	392.0	396.4	401.5	408.2	414.1
167.5°	372.2	373.5	376.4	379.0	381.8	386.6	391.0	393.0	396.4	400.5	404.8
170°	375.8	376.5	378.7	380.2	382.4	386.1	389.7	391.2	393.4	396.4	400.1
172.5°	378.7	378.2	380.5	381.4	383.0	385.5	388.0	388.9	389.9	392.3	394.7
175°	381.6	380.9	382.4	382.4	383.1	384.6	386.1	385.3	386.1	386.8	389.0
177.5°	382.6	381.9	383.1	383.1	383.1	383.7	384.9	383.7	383.1	383.7	384.9
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



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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°	9.0	9.3	9.3	9.3	9.5	9.3	9.3
90°	22.1	23.6	24.3	24.3	24.3	24.3	24.3
92.5°	55.1	48.9	44.4	43.7	41.4	42.0	40.8
95°	148.1	117.2	100.9	91.3	85.5	83.2	84.0
97.5°	368.5	288.8	235.6	200.4	182.3	171.5	165.3
100°	581.4	480.4	391.2	330.1	298.4	277.0	263.7
102.5°	797.7	723.8	629.3	562.9	508.8	482.1	464.2
105°	978.5	988.1	963.7	918.0	872.3	840.7	830.4
107.5°	965.2	1041.8	1077.5	1083.3	1080.7	1074.4	1060.6
110°	924.0	1018.2	1078.6	1110.3	1124.4	1131.0	1130.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	875.0	975.8	1045.1	1089.1	1112.6	1125.1	1129.1
115°	808.2	904.7	980.6	1032.9	1066.9	1086.0	1092.7
117.5°	754.0	841.6	912.8	966.1	1001.9	1022.1	1027.7
120°	725.8	803.8	870.9	922.5	957.1	978.5	985.8
122.5°	702.2	776.1	836.7	883.0	917.0	936.0	942.2
125°	671.2	736.0	791.3	834.1	862.0	880.4	886.4
127.5°	641.1	702.3	753.3	790.6	816.8	832.7	837.4
130°	621.1	679.3	727.9	764.0	789.1	803.8	809.7
132.5°	602.3	655.7	701.4	737.0	762.0	775.5	780.8
135°	572.5	621.1	662.3	694.1	718.4	731.6	734.6
137.5°	548.7	587.4	623.3	652.2	673.2	684.8	689.2
140°	533.5	567.3	599.7	623.3	642.4	653.6	658.0
142.5°	519.9	549.0	576.2	598.6	616.0	625.8	626.7
145°	502.5	525.4	546.7	564.4	576.9	584.3	586.4
147.5°	488.3	506.1	521.8	536.4	546.4	551.4	552.7
150°	478.9	494.4	507.7	518.7	527.5	532.0	532.7
152.5°	471.3	484.4	495.9	504.5	512.2	515.5	515.6
155°	459.0	470.0	478.2	486.3	491.4	494.4	492.9
157.5°	446.7	455.9	462.2	468.0	472.3	473.6	473.6
160°	438.4	446.5	451.7	456.9	460.5	461.2	461.2
162.5°	430.7	437.6	441.7	446.8	449.3	450.1	449.4
165°	419.2	424.4	427.3	430.3	433.2	433.2	432.5
167.5°	408.8	412.3	415.0	416.3	417.9	417.7	416.9
170°	402.3	405.2	406.7	407.5	409.6	408.9	407.5
172.5°	396.4	398.8	399.6	400.4	401.4	400.7	399.8
175°	389.7	390.5	391.2	391.2	392.0	391.2	389.7
177.5°	384.9	385.5	385.5	385.5	385.5	384.9	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1

(END OF REPORT)