

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331635-840

Luminaire Tested: **S122RDIP-S290D925U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331635-840  
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: S122RDIP-S290D925U840-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4792.7 lumens  
Efficiency: N/A  
Efficacy: 128.5 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

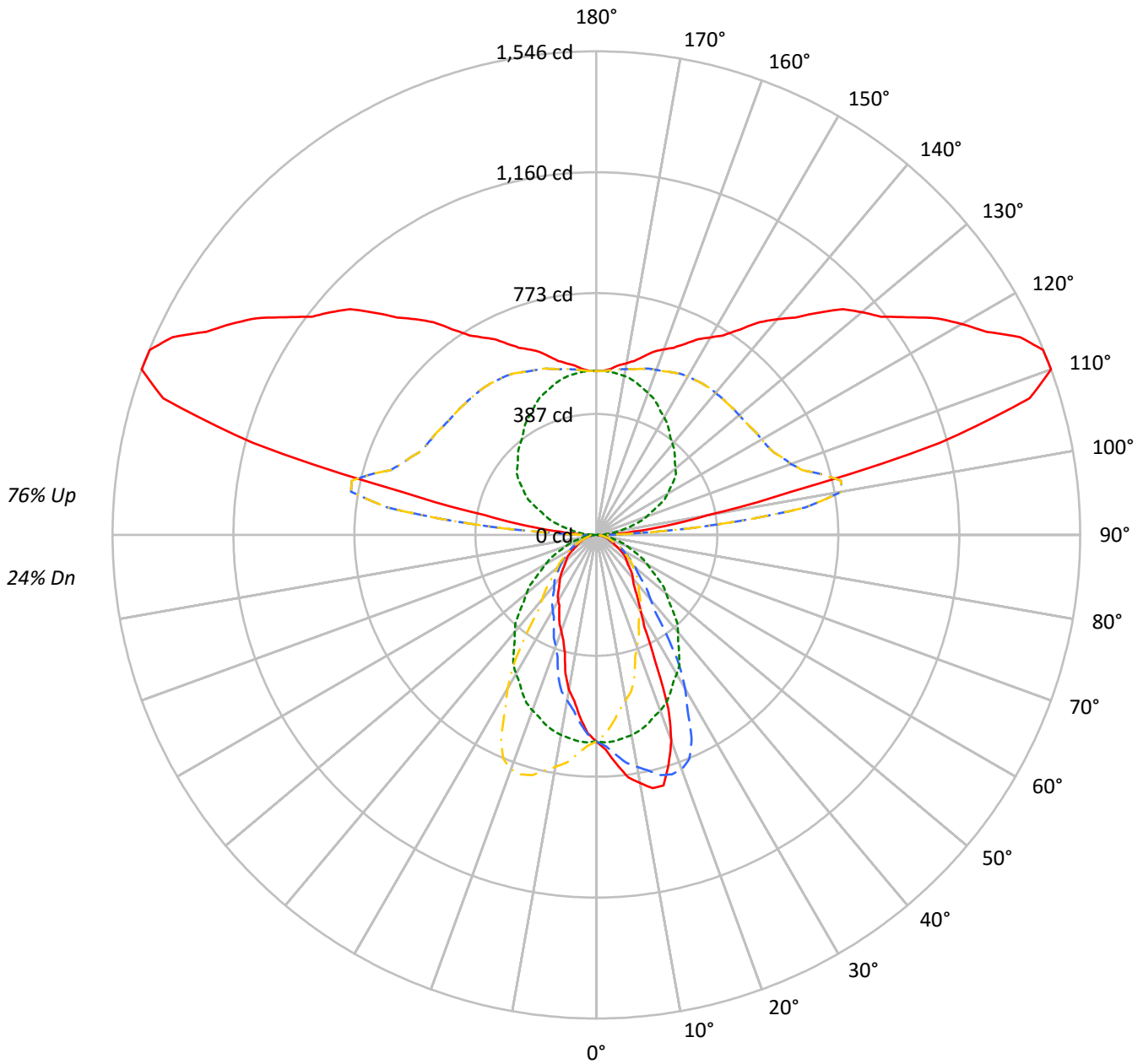
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

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

	0°	90°	180°	270°
0°	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	1.3
10°-20°	174.4	3.6
20°-30°	224.7	4.7
30°-40°	213.5	4.5
40°-50°	182.9	3.8
50°-60°	139.3	2.9
60°-70°	88.1	1.8
70°-80°	44.0	0.9
80°-90°	16.2	0.3
90°-100°	209.6	4.4
100°-110°	711.1	14.8
110°-120°	755.5	15.8
120°-130°	621.9	13.0
130°-140°	499.4	10.4
140°-150°	377.4	7.9
150°-160°	265.2	5.5
160°-170°	156.1	3.3
170°-180°	50.8	1.1
0°-30°	461.7	9.6
0°-40°	675.2	14.1
0°-60°	997.5	20.8
0°-90°	1145.7	23.9
90°-120°	1676.1	35.0
90°-150°	3174.8	66.2
90°-180°	3647.0	76.1
0°-180°	4792.7	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°	33	1	33	1	33	18
95°	115	35	115	35	115	149
105°	1136	123	1136	123	1136	1099
115°	1495	217	1495	217	1495	1464
125°	1212	302	1212	302	1212	1096
135°	1005	355	1005	355	1005	781
145°	802	405	802	405	802	510
155°	674	461	674	461	674	315
165°	592	502	592	502	592	169
175°	533	523	533	523	533	52
180°	524	524	524	524	524	



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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°	9.6	9.8	9.8	9.8	9.8	9.6	9.2	9.8	9.8	10.2	9.8
90°	33.2	33.2	33.2	33.2	33.2	32.2	30.2	32.2	33.2	34.2	33.2
92.5°	55.8	57.5	56.7	59.9	60.7	67.0	75.4	87.9	110.7	131.0	129.2
95°	114.9	113.9	116.9	125.0	138.0	160.3	202.6	264.1	345.7	395.1	349.7
97.5°	226.2	234.6	249.3	274.2	322.3	395.1	504.1	616.2	707.5	674.5	508.0
100°	360.8	379.0	408.2	451.5	535.2	657.1	795.2	920.2	941.4	796.2	548.3
102.5°	635.0	659.5	696.0	770.0	860.9	990.2	1091.2	1119.3	1028.4	800.2	533.0
105°	1135.9	1149.9	1193.4	1255.8	1318.3	1351.6	1338.5	1224.6	1014.9	746.8	502.9
107.5°	1451.0	1469.7	1478.3	1481.8	1473.9	1425.1	1320.3	1148.8	926.5	689.6	488.0
110°	1546.1	1547.1	1538.0	1518.8	1475.5	1392.9	1263.8	1083.5	870.8	662.2	484.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1544.5	1539.0	1521.9	1489.9	1429.6	1334.8	1197.0	1023.8	832.1	644.4	485.5
115°	1494.7	1485.6	1459.4	1413.0	1341.5	1237.7	1105.6	950.4	784.2	624.9	489.8
117.5°	1405.7	1398.2	1370.5	1321.5	1248.6	1151.1	1031.5	895.1	753.9	615.4	497.1
120°	1348.6	1338.5	1309.2	1261.8	1191.3	1099.5	992.8	867.8	737.8	609.8	501.9
122.5°	1288.9	1280.4	1254.4	1207.8	1144.6	1061.7	960.5	846.0	724.1	606.5	507.6
125°	1212.4	1204.4	1179.2	1140.9	1082.5	1006.8	918.2	814.4	704.5	600.7	516.0
127.5°	1145.6	1139.1	1117.3	1081.5	1030.5	960.7	877.1	783.2	686.4	597.2	524.7
130°	1107.6	1099.5	1079.4	1045.2	995.8	929.3	849.6	763.0	674.3	595.6	531.2
132.5°	1068.1	1060.9	1042.4	1008.0	959.5	897.0	823.8	743.6	664.6	594.8	537.6
135°	1004.8	1000.8	982.7	949.4	906.1	849.6	783.2	716.6	651.1	593.6	545.2
137.5°	942.8	936.8	920.8	892.2	852.6	803.4	750.6	695.0	641.6	593.4	552.1
140°	900.0	894.0	878.9	852.6	820.4	776.1	729.7	681.4	636.0	592.6	555.3
142.5°	857.3	856.1	842.6	818.8	788.2	751.0	711.1	670.0	630.4	592.6	557.7
145°	802.2	799.2	789.2	772.0	747.8	718.6	687.4	654.1	622.9	590.6	560.4
147.5°	756.1	754.3	747.4	733.8	713.8	692.4	668.0	641.8	615.2	587.0	561.2
150°	728.7	727.7	721.6	709.5	694.4	676.3	655.1	633.0	608.7	584.6	560.4
152.5°	705.3	705.1	700.6	690.1	678.3	662.6	644.6	624.1	603.1	580.6	558.8
155°	674.3	676.3	672.3	665.2	654.1	643.0	627.9	611.8	592.6	573.5	556.3
157.5°	647.8	647.8	646.0	640.2	632.4	623.7	611.0	597.4	582.8	566.2	551.7
160°	631.0	631.0	630.0	624.9	617.8	610.8	599.7	588.5	575.5	561.4	549.3
162.5°	614.8	615.6	614.6	611.2	604.1	598.6	589.2	579.8	569.1	557.3	546.8
165°	591.6	592.6	592.6	588.5	584.6	580.6	573.5	566.4	558.4	549.3	542.2
167.5°	570.3	571.5	571.7	569.5	567.6	564.0	559.2	553.7	547.9	542.2	537.6
170°	557.3	559.4	560.4	557.3	556.3	554.3	550.3	547.2	542.2	538.2	535.2
172.5°	546.8	548.1	549.1	547.6	546.6	545.4	542.2	540.0	536.6	533.4	532.0
175°	533.2	535.2	536.2	535.2	535.2	534.2	533.2	532.2	529.2	528.2	527.1
177.5°	524.9	526.5	527.4	527.4	527.4	527.4	526.5	526.5	524.9	524.1	524.9
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1



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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°	8.6	7.4	6.4	5.6	5.4	5.0	5.3	5.6	5.4	5.7	5.7
90°	27.2	20.2	15.1	12.1	10.1	8.1	4.0	1.0	4.0	8.1	10.1
92.5°	100.6	68.6	45.7	36.3	29.4	25.0	17.8	12.3	17.8	25.0	29.4
95°	232.8	145.1	98.8	74.6	58.5	49.4	39.3	35.2	39.3	49.4	58.5
97.5°	313.7	191.5	133.2	105.8	87.3	73.6	62.9	57.5	62.9	73.6	87.3
100°	330.6	207.6	154.2	126.0	105.8	89.7	80.6	77.6	80.6	89.7	105.8
102.5°	331.4	222.2	172.8	144.5	123.6	107.4	98.4	96.1	98.4	107.4	123.6
105°	336.6	246.9	199.5	171.4	149.2	134.0	127.0	123.0	127.0	134.0	149.2
107.5°	350.5	272.4	226.4	197.9	176.0	162.1	155.2	152.0	155.2	162.1	176.0
110°	361.8	289.2	244.9	215.7	194.5	181.4	175.4	171.4	175.4	181.4	194.5





TEST NUMBER: P331635-840

CATALOG NUMBER: S122RDIP-S290D925U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	374.0	305.4	262.7	232.6	212.3	200.0	193.1	189.0	193.1	200.0	212.3
115°	392.0	330.6	287.2	260.0	239.8	227.8	221.8	216.7	221.8	227.8	239.8
117.5°	411.4	353.8	313.7	285.4	266.1	255.4	249.3	245.3	249.3	255.4	266.1
120°	424.3	369.9	330.6	302.4	282.2	273.2	267.1	263.1	267.1	273.2	282.2
122.5°	435.6	385.2	348.3	319.3	299.1	289.2	283.2	280.0	283.2	289.2	299.1
125°	453.5	408.2	371.9	343.7	323.6	311.4	305.4	302.4	305.4	311.4	323.6
127.5°	470.3	429.6	394.3	365.3	345.9	332.5	324.2	320.1	324.2	332.5	345.9
130°	480.8	442.4	407.2	379.0	358.8	344.7	334.6	330.6	334.6	344.7	358.8
132.5°	491.2	453.7	420.1	391.8	370.9	356.0	345.1	340.2	345.1	356.0	370.9
135°	504.9	469.7	437.4	409.2	386.0	370.9	358.8	354.8	358.8	370.9	386.0
137.5°	515.4	482.6	450.7	424.5	401.5	385.4	373.3	368.5	373.3	385.4	401.5
140°	521.1	489.8	459.6	433.4	411.2	395.1	383.0	379.0	383.0	395.1	411.2
142.5°	525.9	495.4	466.1	441.4	420.1	403.9	392.6	389.4	392.6	403.9	420.1
145°	532.2	503.9	476.8	454.5	434.4	419.3	409.2	405.2	409.2	419.3	434.4
147.5°	535.6	510.8	485.2	465.4	448.7	434.7	425.2	422.1	425.2	434.7	448.7
150°	537.1	514.0	490.8	472.7	457.6	444.4	436.4	433.4	436.4	444.4	457.6
152.5°	538.0	517.3	496.4	480.0	465.6	454.1	446.1	444.6	446.1	454.1	465.6
155°	539.2	522.1	504.9	489.8	478.8	467.7	461.6	460.6	461.6	467.7	478.8
157.5°	539.2	525.5	511.0	498.3	489.4	479.8	474.9	473.9	474.9	479.8	489.4
160°	539.2	527.1	515.0	503.9	495.8	487.8	483.8	482.8	483.8	487.8	495.8
162.5°	538.4	528.0	517.5	508.8	501.5	495.0	491.0	491.6	491.0	495.0	501.5
165°	536.2	529.2	520.1	514.0	509.0	502.9	500.9	501.9	500.9	502.9	509.0
167.5°	534.8	529.0	522.3	518.5	514.8	511.0	509.2	510.4	509.2	511.0	514.8
170°	533.2	528.2	523.1	520.1	518.1	515.0	514.0	516.0	514.0	515.0	518.1
172.5°	530.8	527.4	523.9	521.7	520.5	517.5	518.1	519.3	518.1	517.5	520.5
175°	528.2	526.1	524.1	523.1	523.1	521.1	522.1	523.1	522.1	521.1	523.1
177.5°	526.5	524.9	524.1	524.1	524.1	522.5	523.3	524.9	523.3	522.5	524.1
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1



TEST NUMBER: P331635-840

CATALOG NUMBER: S122RDIP-S290D925U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	650.9	649.5	647.1	643.5	641.3	637.4	634.9	636.3	636.7	636.3	636.0
5°	633.4	628.5	621.9	615.4	609.5	603.1	599.4	597.8	594.6	592.8	591.8
7.5°	612.2	603.9	594.5	583.3	573.8	563.8	558.8	556.2	549.7	546.1	543.0
10°	596.4	583.3	573.9	559.3	550.3	537.2	528.3	528.6	519.6	514.5	510.9
12.5°	579.0	564.6	549.0	535.7	523.3	512.8	502.0	497.7	488.2	483.3	473.4
15°	550.1	533.3	516.8	499.0	486.4	470.0	454.4	435.4	420.0	406.7	403.0
17.5°	518.6	497.8	481.2	460.2	438.6	411.2	393.1	382.0	372.8	365.8	360.5
20°	496.9	475.7	458.1	426.5	397.3	378.7	365.5	356.9	347.3	339.7	335.6
22.5°	474.1	452.1	428.0	392.6	369.9	355.1	343.3	333.5	326.9	321.0	317.2
25°	441.8	417.7	378.0	353.8	335.4	319.7	311.5	305.6	298.7	290.6	287.0
27.5°	407.7	369.4	340.8	322.8	305.3	295.2	287.7	278.8	272.7	269.0	265.2
30°	382.1	343.9	321.6	301.8	289.5	278.2	269.5	264.5	258.5	252.4	249.8
32.5°	353.8	323.2	301.7	285.4	272.8	263.2	256.3	248.1	243.9	240.0	234.8
35°	318.4	295.2	275.7	262.5	250.4	242.7	234.7	229.8	222.1	218.8	216.8
37.5°	288.5	268.4	253.9	239.8	230.4	221.8	216.8	209.1	205.8	201.3	196.9
40°	271.6	251.9	237.9	226.4	215.8	209.4	203.3	197.0	192.0	190.0	184.7
42.5°	254.4	238.3	224.3	211.8	204.7	197.8	190.1	185.5	180.3	176.9	173.7
45°	230.6	216.3	204.4	194.1	186.2	179.2	174.1	166.5	163.6	156.9	154.1
47.5°	209.6	196.4	185.0	175.2	167.6	163.0	155.6	149.7	144.9	140.8	137.2
50°	194.8	183.7	172.7	164.0	157.1	150.5	142.9	140.0	132.6	130.5	128.5
52.5°	181.2	170.7	160.7	152.1	145.2	138.8	132.1	128.2	123.2	121.2	119.7
55°	162.2	152.1	142.5	134.9	128.1	121.4	117.2	112.4	110.1	108.5	106.6
57.5°	143.1	134.0	126.6	119.0	112.0	106.7	102.0	99.1	96.7	94.6	92.4
60°	131.0	122.3	115.6	108.5	101.4	97.0	93.4	89.9	87.2	83.9	83.0
62.5°	118.2	110.5	104.4	97.5	91.3	87.4	83.8	80.6	77.3	72.6	71.3
65°	100.5	94.5	88.1	82.3	76.9	72.9	67.9	64.2	62.8	62.4	62.2
67.5°	84.5	78.9	73.3	67.5	62.5	58.9	56.2	55.7	54.7	54.5	53.8
70°	73.8	68.6	63.1	57.6	52.7	52.1	51.2	50.2	49.1	48.7	48.2
72.5°	64.3	58.9	53.3	49.0	46.9	46.0	45.1	44.1	43.4	42.9	42.7
75°	49.3	44.2	40.6	39.0	37.9	37.2	35.7	35.1	34.6	33.9	33.7
77.5°	35.5	32.6	31.0	30.0	28.8	28.1	27.3	26.6	26.1	26.0	25.5
80°	27.1	25.7	24.5	23.1	22.7	21.8	21.6	20.9	21.1	20.4	20.4
82.5°	21.0	19.3	18.3	17.7	17.2	16.5	16.3	16.0	16.0	15.5	15.5
85°	10.8	10.3	9.9	9.4	9.4	8.7	9.0	8.7	8.7	8.3	8.1
87.5°	5.9	6.4	7.0	8.4	9.6	9.6	9.4	9.0	8.6	9.0	9.0
90°	12.1	15.1	20.2	27.2	33.2	34.2	33.2	32.2	30.2	32.2	33.2
92.5°	36.3	45.7	68.6	100.6	129.2	131.0	110.7	87.9	75.4	67.0	60.7
95°	74.6	98.8	145.1	232.8	349.7	395.1	345.7	264.1	202.6	160.3	138.0
97.5°	105.8	133.2	191.5	313.7	508.0	674.5	707.5	616.2	504.1	395.1	322.3
100°	126.0	154.2	207.6	330.6	548.3	796.2	941.4	920.2	795.2	657.1	535.2
102.5°	144.5	172.8	222.2	331.4	533.0	800.2	1028.4	1119.3	1091.2	990.2	860.9
105°	171.4	199.5	246.9	336.6	502.9	746.8	1014.9	1224.6	1338.5	1351.6	1318.3
107.5°	197.9	226.4	272.4	350.5	488.0	689.6	926.5	1148.8	1320.3	1425.1	1473.9
110°	215.7	244.9	289.2	361.8	484.8	662.2	870.8	1083.5	1263.8	1392.9	1475.5



TEST NUMBER: P331635-840

CATALOG NUMBER: S122RDIP-S290D925U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	232.6	262.7	305.4	374.0	485.5	644.4	832.1	1023.8	1197.0	1334.8	1429.6
115°	260.0	287.2	330.6	392.0	489.8	624.9	784.2	950.4	1105.6	1237.7	1341.5
117.5°	285.4	313.7	353.8	411.4	497.1	615.4	753.9	895.1	1031.5	1151.1	1248.6
120°	302.4	330.6	369.9	424.3	501.9	609.8	737.8	867.8	992.8	1099.5	1191.3
122.5°	319.3	348.3	385.2	435.6	507.6	606.5	724.1	846.0	960.5	1061.7	1144.6
125°	343.7	371.9	408.2	453.5	516.0	600.7	704.5	814.4	918.2	1006.8	1082.5
127.5°	365.3	394.3	429.6	470.3	524.7	597.2	686.4	783.2	877.1	960.7	1030.5
130°	379.0	407.2	442.4	480.8	531.2	595.6	674.3	763.0	849.6	929.3	995.8
132.5°	391.8	420.1	453.7	491.2	537.6	594.8	664.6	743.6	823.8	897.0	959.5
135°	409.2	437.4	469.7	504.9	545.2	593.6	651.1	716.6	783.2	849.6	906.1
137.5°	424.5	450.7	482.6	515.4	552.1	593.4	641.6	695.0	750.6	803.4	852.6
140°	433.4	459.6	489.8	521.1	555.3	592.6	636.0	681.4	729.7	776.1	820.4
142.5°	441.4	466.1	495.4	525.9	557.7	592.6	630.4	670.0	711.1	751.0	788.2
145°	454.5	476.8	503.9	532.2	560.4	590.6	622.9	654.1	687.4	718.6	747.8
147.5°	465.4	485.2	510.8	535.6	561.2	587.0	615.2	641.8	668.0	692.4	713.8
150°	472.7	490.8	514.0	537.1	560.4	584.6	608.7	633.0	655.1	676.3	694.4
152.5°	480.0	496.4	517.3	538.0	558.8	580.6	603.1	624.1	644.6	662.6	678.3
155°	489.8	504.9	522.1	539.2	556.3	573.5	592.6	611.8	627.9	643.0	654.1
157.5°	498.3	511.0	525.5	539.2	551.7	566.2	582.8	597.4	611.0	623.7	632.4
160°	503.9	515.0	527.1	539.2	549.3	561.4	575.5	588.5	599.7	610.8	617.8
162.5°	508.8	517.5	528.0	538.4	546.8	557.3	569.1	579.8	589.2	598.6	604.1
165°	514.0	520.1	529.2	536.2	542.2	549.3	558.4	566.4	573.5	580.6	584.6
167.5°	518.5	522.3	529.0	534.8	537.6	542.2	547.9	553.7	559.2	564.0	567.6
170°	520.1	523.1	528.2	533.2	535.2	538.2	542.2	547.2	550.3	554.3	556.3
172.5°	521.7	523.9	527.4	530.8	532.0	533.4	536.6	540.0	542.2	545.4	546.6
175°	523.1	524.1	526.1	528.2	527.1	528.2	529.2	532.2	533.2	534.2	535.2
177.5°	524.1	524.1	524.9	526.5	524.9	524.1	524.9	526.5	526.5	527.4	527.4
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1



TEST NUMBER: P331635-840

CATALOG NUMBER: S122RDIP-S290D925U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	634.0	634.3	633.8	634.1	633.8	634.3	634.0	636.0	636.3	636.7	636.3
5°	590.7	587.9	587.4	586.8	587.4	587.9	590.7	591.8	592.8	594.6	597.8
7.5°	539.1	538.7	537.5	535.8	537.5	538.7	539.1	543.0	546.1	549.7	556.2
10°	505.8	504.6	504.4	502.8	504.4	504.6	505.8	510.9	514.5	519.6	528.6
12.5°	466.9	459.5	458.8	454.7	458.8	459.5	466.9	473.4	483.3	488.2	497.7
15°	397.6	396.2	391.5	388.6	391.5	396.2	397.6	403.0	406.7	420.0	435.4
17.5°	357.9	353.4	351.9	351.3	351.9	353.4	357.9	360.5	365.8	372.8	382.0
20°	332.3	328.3	327.6	327.1	327.6	328.3	332.3	335.6	339.7	347.3	356.9
22.5°	314.8	310.4	308.7	307.3	308.7	310.4	314.8	317.2	321.0	326.9	333.5
25°	284.7	283.1	282.2	281.7	282.2	283.1	284.7	287.0	290.6	298.7	305.6
27.5°	261.2	257.6	256.9	255.7	256.9	257.6	261.2	265.2	269.0	272.7	278.8
30°	247.7	246.6	245.0	243.6	245.0	246.6	247.7	249.8	252.4	258.5	264.5
32.5°	232.0	231.0	229.5	228.9	229.5	231.0	232.0	234.8	240.0	243.9	248.1
35°	214.5	211.3	209.8	207.8	209.8	211.3	214.5	216.8	218.8	222.1	229.8
37.5°	196.0	194.3	192.4	193.1	192.4	194.3	196.0	196.9	201.3	205.8	209.1
40°	181.7	180.6	180.1	179.9	180.1	180.6	181.7	184.7	190.0	192.0	197.0
42.5°	170.3	167.1	165.9	165.9	165.9	167.1	170.3	173.7	176.9	180.3	185.5
45°	153.0	150.1	147.9	148.1	147.9	150.1	153.0	154.1	156.9	163.6	166.5
47.5°	135.3	135.2	133.9	134.3	133.9	135.2	135.3	137.2	140.8	144.9	149.7
50°	126.8	125.5	124.5	124.8	124.5	125.5	126.8	128.5	130.5	132.6	140.0
52.5°	118.8	117.5	116.8	117.9	116.8	117.5	118.8	119.7	121.2	123.2	128.2
55°	105.5	104.1	103.9	103.7	103.9	104.1	105.5	106.6	108.5	110.1	112.4
57.5°	90.7	89.8	88.4	87.9	88.4	89.8	90.7	92.4	94.6	96.7	99.1
60°	80.1	78.3	75.9	75.7	75.9	78.3	80.1	83.0	83.9	87.2	89.9
62.5°	70.3	70.0	69.5	69.5	69.5	70.0	70.3	71.3	72.6	77.3	80.6
65°	61.7	61.5	61.7	61.9	61.7	61.5	61.7	62.2	62.4	62.8	64.2
67.5°	53.7	53.3	52.9	53.1	52.9	53.3	53.7	53.8	54.5	54.7	55.7
70°	47.7	47.5	47.3	47.3	47.3	47.5	47.7	48.2	48.7	49.1	50.2
72.5°	41.8	41.8	41.6	41.4	41.6	41.8	41.8	42.7	42.9	43.4	44.1
75°	33.5	33.0	33.0	33.0	33.0	33.0	33.5	33.7	33.9	34.6	35.1
77.5°	25.5	25.2	25.0	24.8	25.0	25.2	25.5	25.5	26.0	26.1	26.6
80°	20.2	20.0	19.7	19.7	19.7	20.0	20.2	20.4	20.4	21.1	20.9
82.5°	15.5	15.1	15.1	14.9	15.1	15.1	15.5	15.5	15.5	16.0	16.0
85°	8.3	8.5	8.3	8.7	8.3	8.5	8.3	8.1	8.3	8.7	8.7
87.5°	9.0	8.9	9.0	8.9	9.0	8.9	9.0	9.0	9.0	8.6	9.0
90°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	32.2	30.2	32.2
92.5°	59.9	56.7	57.5	55.8	57.5	56.7	59.9	60.7	67.0	75.4	87.9
95°	125.0	116.9	113.9	114.9	113.9	116.9	125.0	138.0	160.3	202.6	264.1
97.5°	274.2	249.3	234.6	226.2	234.6	249.3	274.2	322.3	395.1	504.1	616.2
100°	451.5	408.2	379.0	360.8	379.0	408.2	451.5	535.2	657.1	795.2	920.2
102.5°	770.0	696.0	659.5	635.0	659.5	696.0	770.0	860.9	990.2	1091.2	1119.3
105°	1255.8	1193.4	1149.9	1135.9	1149.9	1193.4	1255.8	1318.3	1351.6	1338.5	1224.6
107.5°	1481.8	1478.3	1469.7	1451.0	1469.7	1478.3	1481.8	1473.9	1425.1	1320.3	1148.8
110°	1518.8	1538.0	1547.1	1546.1	1547.1	1538.0	1518.8	1475.5	1392.9	1263.8	1083.5



TEST NUMBER: P331635-840

CATALOG NUMBER: S122RDIP-S290D925U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1489.9	1521.9	1539.0	1544.5	1539.0	1521.9	1489.9	1429.6	1334.8	1197.0	1023.8
115°	1413.0	1459.4	1485.6	1494.7	1485.6	1459.4	1413.0	1341.5	1237.7	1105.6	950.4
117.5°	1321.5	1370.5	1398.2	1405.7	1398.2	1370.5	1321.5	1248.6	1151.1	1031.5	895.1
120°	1261.8	1309.2	1338.5	1348.6	1338.5	1309.2	1261.8	1191.3	1099.5	992.8	867.8
122.5°	1207.8	1254.4	1280.4	1288.9	1280.4	1254.4	1207.8	1144.6	1061.7	960.5	846.0
125°	1140.9	1179.2	1204.4	1212.4	1204.4	1179.2	1140.9	1082.5	1006.8	918.2	814.4
127.5°	1081.5	1117.3	1139.1	1145.6	1139.1	1117.3	1081.5	1030.5	960.7	877.1	783.2
130°	1045.2	1079.4	1099.5	1107.6	1099.5	1079.4	1045.2	995.8	929.3	849.6	763.0
132.5°	1008.0	1042.4	1060.9	1068.1	1060.9	1042.4	1008.0	959.5	897.0	823.8	743.6
135°	949.4	982.7	1000.8	1004.8	1000.8	982.7	949.4	906.1	849.6	783.2	716.6
137.5°	892.2	920.8	936.8	942.8	936.8	920.8	892.2	852.6	803.4	750.6	695.0
140°	852.6	878.9	894.0	900.0	894.0	878.9	852.6	820.4	776.1	729.7	681.4
142.5°	818.8	842.6	856.1	857.3	856.1	842.6	818.8	788.2	751.0	711.1	670.0
145°	772.0	789.2	799.2	802.2	799.2	789.2	772.0	747.8	718.6	687.4	654.1
147.5°	733.8	747.4	754.3	756.1	754.3	747.4	733.8	713.8	692.4	668.0	641.8
150°	709.5	721.6	727.7	728.7	727.7	721.6	709.5	694.4	676.3	655.1	633.0
152.5°	690.1	700.6	705.1	705.3	705.1	700.6	690.1	678.3	662.6	644.6	624.1
155°	665.2	672.3	676.3	674.3	676.3	672.3	665.2	654.1	643.0	627.9	611.8
157.5°	640.2	646.0	647.8	647.8	647.8	646.0	640.2	632.4	623.7	611.0	597.4
160°	624.9	630.0	631.0	631.0	631.0	630.0	624.9	617.8	610.8	599.7	588.5
162.5°	611.2	614.6	615.6	614.8	615.6	614.6	611.2	604.1	598.6	589.2	579.8
165°	588.5	592.6	592.6	591.6	592.6	592.6	588.5	584.6	580.6	573.5	566.4
167.5°	569.5	571.7	571.5	570.3	571.5	571.7	569.5	567.6	564.0	559.2	553.7
170°	557.3	560.4	559.4	557.3	559.4	560.4	557.3	556.3	554.3	550.3	547.2
172.5°	547.6	549.1	548.1	546.8	548.1	549.1	547.6	546.6	545.4	542.2	540.0
175°	535.2	536.2	535.2	533.2	535.2	536.2	535.2	535.2	534.2	533.2	532.2
177.5°	527.4	527.4	526.5	524.9	526.5	527.4	527.4	527.4	527.4	526.5	526.5
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1



TEST NUMBER: P331635-840

CATALOG NUMBER: S122RDIP-S290D925U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	634.9	637.4	641.3	643.5	647.1	649.5	650.9	653.2	654.5	659.1	663.9
5°	599.4	603.1	609.5	615.4	621.9	628.5	633.4	638.8	643.9	652.6	661.8
7.5°	558.8	563.8	573.8	583.3	594.5	603.9	612.2	621.6	630.0	642.5	655.5
10°	528.3	537.2	550.3	559.3	573.9	583.3	596.4	606.7	618.4	635.0	649.6
12.5°	502.0	512.8	523.3	535.7	549.0	564.6	579.0	592.3	606.1	623.2	640.5
15°	454.4	470.0	486.4	499.0	516.8	533.3	550.1	567.9	584.9	605.4	627.8
17.5°	393.1	411.2	438.6	460.2	481.2	497.8	518.6	540.2	560.2	584.8	609.9
20°	365.5	378.7	397.3	426.5	458.1	475.7	496.9	520.7	543.6	570.5	597.3
22.5°	343.3	355.1	369.9	392.6	428.0	452.1	474.1	498.4	524.9	552.3	582.1
25°	311.5	319.7	335.4	353.8	378.0	417.7	441.8	466.2	495.0	524.4	558.4
27.5°	287.7	295.2	305.3	322.8	340.8	369.4	407.7	434.2	463.0	496.0	531.3
30°	269.5	278.2	289.5	301.8	321.6	343.9	382.1	412.9	441.3	475.3	512.9
32.5°	256.3	263.2	272.8	285.4	301.7	323.2	353.8	391.0	418.8	454.5	493.8
35°	234.7	242.7	250.4	262.5	275.7	295.2	318.4	358.3	385.9	421.1	460.6
37.5°	216.8	221.8	230.4	239.8	253.9	268.4	288.5	324.3	354.1	388.7	429.1
40°	203.3	209.4	215.8	226.4	237.9	251.9	271.6	298.2	332.3	366.4	405.8
42.5°	190.1	197.8	204.7	211.8	224.3	238.3	254.4	276.9	311.8	344.0	382.3
45°	174.1	179.2	186.2	194.1	204.4	216.3	230.6	250.2	283.8	311.5	347.5
47.5°	155.6	163.0	167.6	175.2	185.0	196.4	209.6	226.7	253.8	279.8	313.3
50°	142.9	150.5	157.1	164.0	172.7	183.7	194.8	211.3	233.1	260.3	291.5
52.5°	132.1	138.8	145.2	152.1	160.7	170.7	181.2	195.7	214.3	239.4	269.7
55°	117.2	121.4	128.1	134.9	142.5	152.1	162.2	174.3	190.4	211.5	236.0
57.5°	102.0	106.7	112.0	119.0	126.6	134.0	143.1	154.1	166.7	185.8	206.8
60°	93.4	97.0	101.4	108.5	115.6	122.3	131.0	140.2	152.1	168.6	186.5
62.5°	83.8	87.4	91.3	97.5	104.4	110.5	118.2	127.8	137.9	153.0	168.6
65°	67.9	72.9	76.9	82.3	88.1	94.5	100.5	108.3	117.2	129.2	143.1
67.5°	56.2	58.9	62.5	67.5	73.3	78.9	84.5	90.6	98.4	107.6	118.7
70°	51.2	52.1	52.7	57.6	63.1	68.6	73.8	79.6	86.2	93.8	103.4
72.5°	45.1	46.0	46.9	49.0	53.3	58.9	64.3	68.6	74.8	81.2	89.0
75°	35.7	37.2	37.9	39.0	40.6	44.2	49.3	53.4	57.2	61.9	68.2
77.5°	27.3	28.1	28.8	30.0	31.0	32.6	35.5	39.2	42.7	45.4	49.7
80°	21.6	21.8	22.7	23.1	24.5	25.7	27.1	30.1	33.5	34.6	37.7
82.5°	16.3	16.5	17.2	17.7	18.3	19.3	21.0	21.8	24.5	26.1	27.9
85°	9.0	8.7	9.4	9.4	9.9	10.3	10.8	11.9	12.6	14.4	14.9
87.5°	9.4	9.6	9.6	8.4	7.0	6.4	5.9	5.7	5.7	5.4	5.6
90°	33.2	34.2	33.2	27.2	20.2	15.1	12.1	10.1	8.1	4.0	1.0
92.5°	110.7	131.0	129.2	100.6	68.6	45.7	36.3	29.4	25.0	17.8	12.3
95°	345.7	395.1	349.7	232.8	145.1	98.8	74.6	58.5	49.4	39.3	35.2
97.5°	707.5	674.5	508.0	313.7	191.5	133.2	105.8	87.3	73.6	62.9	57.5
100°	941.4	796.2	548.3	330.6	207.6	154.2	126.0	105.8	89.7	80.6	77.6
102.5°	1028.4	800.2	533.0	331.4	222.2	172.8	144.5	123.6	107.4	98.4	96.1
105°	1014.9	746.8	502.9	336.6	246.9	199.5	171.4	149.2	134.0	127.0	123.0
107.5°	926.5	689.6	488.0	350.5	272.4	226.4	197.9	176.0	162.1	155.2	152.0
110°	870.8	662.2	484.8	361.8	289.2	244.9	215.7	194.5	181.4	175.4	171.4



TEST NUMBER: P331635-840

CATALOG NUMBER: S122RDIP-S290D925U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	832.1	644.4	485.5	374.0	305.4	262.7	232.6	212.3	200.0	193.1	189.0
115°	784.2	624.9	489.8	392.0	330.6	287.2	260.0	239.8	227.8	221.8	216.7
117.5°	753.9	615.4	497.1	411.4	353.8	313.7	285.4	266.1	255.4	249.3	245.3
120°	737.8	609.8	501.9	424.3	369.9	330.6	302.4	282.2	273.2	267.1	263.1
122.5°	724.1	606.5	507.6	435.6	385.2	348.3	319.3	299.1	289.2	283.2	280.0
125°	704.5	600.7	516.0	453.5	408.2	371.9	343.7	323.6	311.4	305.4	302.4
127.5°	686.4	597.2	524.7	470.3	429.6	394.3	365.3	345.9	332.5	324.2	320.1
130°	674.3	595.6	531.2	480.8	442.4	407.2	379.0	358.8	344.7	334.6	330.6
132.5°	664.6	594.8	537.6	491.2	453.7	420.1	391.8	370.9	356.0	345.1	340.2
135°	651.1	593.6	545.2	504.9	469.7	437.4	409.2	386.0	370.9	358.8	354.8
137.5°	641.6	593.4	552.1	515.4	482.6	450.7	424.5	401.5	385.4	373.3	368.5
140°	636.0	592.6	555.3	521.1	489.8	459.6	433.4	411.2	395.1	383.0	379.0
142.5°	630.4	592.6	557.7	525.9	495.4	466.1	441.4	420.1	403.9	392.6	389.4
145°	622.9	590.6	560.4	532.2	503.9	476.8	454.5	434.4	419.3	409.2	405.2
147.5°	615.2	587.0	561.2	535.6	510.8	485.2	465.4	448.7	434.7	425.2	422.1
150°	608.7	584.6	560.4	537.1	514.0	490.8	472.7	457.6	444.4	436.4	433.4
152.5°	603.1	580.6	558.8	538.0	517.3	496.4	480.0	465.6	454.1	446.1	444.6
155°	592.6	573.5	556.3	539.2	522.1	504.9	489.8	478.8	467.7	461.6	460.6
157.5°	582.8	566.2	551.7	539.2	525.5	511.0	498.3	489.4	479.8	474.9	473.9
160°	575.5	561.4	549.3	539.2	527.1	515.0	503.9	495.8	487.8	483.8	482.8
162.5°	569.1	557.3	546.8	538.4	528.0	517.5	508.8	501.5	495.0	491.0	491.6
165°	558.4	549.3	542.2	536.2	529.2	520.1	514.0	509.0	502.9	500.9	501.9
167.5°	547.9	542.2	537.6	534.8	529.0	522.3	518.5	514.8	511.0	509.2	510.4
170°	542.2	538.2	535.2	533.2	528.2	523.1	520.1	518.1	515.0	514.0	516.0
172.5°	536.6	533.4	532.0	530.8	527.4	523.9	521.7	520.5	517.5	518.1	519.3
175°	529.2	528.2	527.1	528.2	526.1	524.1	523.1	523.1	521.1	522.1	523.1
177.5°	524.9	524.1	524.9	526.5	524.9	524.1	524.1	524.1	522.5	523.3	524.9
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1



TEST NUMBER: P331635-840

CATALOG NUMBER: S122RDIP-S290D925U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	664.1	664.6	668.2	669.9	673.2	674.5	676.0	675.6	675.6	676.3	681.5
5°	665.5	670.0	676.9	683.6	690.0	695.5	699.2	702.9	704.3	710.8	716.8
7.5°	663.1	671.6	682.9	693.1	705.2	714.7	722.6	729.7	734.6	744.3	754.2
10°	659.9	671.9	684.7	697.8	714.6	727.2	740.0	749.9	753.1	767.5	775.8
12.5°	653.7	669.6	686.0	703.0	719.3	736.7	750.8	760.7	772.0	785.0	800.2
15°	644.4	662.7	684.1	705.8	729.2	750.3	765.5	782.6	795.1	809.3	822.6
17.5°	631.0	654.6	681.7	706.9	734.0	756.6	777.5	794.0	802.6	810.8	812.7
20°	620.3	645.7	677.6	707.4	734.5	760.6	781.3	795.1	797.4	797.6	785.5
22.5°	608.7	637.5	670.9	701.4	733.8	762.9	778.9	784.8	775.7	760.1	736.6
25°	587.4	620.8	659.5	694.4	729.7	757.2	762.8	752.5	720.5	687.0	644.6
27.5°	564.4	601.9	643.4	682.2	719.8	736.9	725.0	687.7	630.4	580.4	519.9
30°	547.5	589.6	630.4	673.7	708.6	715.9	688.6	633.8	566.8	491.6	431.2
32.5°	528.3	572.3	617.1	662.0	691.2	684.0	638.9	571.4	492.9	418.9	361.9
35°	500.8	546.1	594.6	639.5	658.1	627.1	559.7	471.8	391.5	322.6	283.3
37.5°	469.0	518.5	568.8	610.1	608.7	557.1	465.2	374.6	307.1	266.2	238.3
40°	446.4	496.4	550.8	585.6	570.8	503.5	403.9	318.4	269.0	236.5	216.1
42.5°	424.7	474.9	529.0	556.6	530.7	448.1	348.9	281.9	241.2	215.8	199.2
45°	387.9	440.9	490.9	506.2	459.9	368.9	282.2	233.5	206.4	187.6	176.2
47.5°	351.8	404.0	449.7	449.9	387.3	299.1	238.0	202.1	178.9	164.4	156.1
50°	329.8	379.4	417.7	411.7	340.6	266.1	212.9	181.9	162.7	151.4	142.7
52.5°	305.1	353.1	386.4	369.4	301.1	234.2	190.3	164.3	148.3	138.6	130.8
55°	269.0	311.7	335.2	309.4	245.7	194.8	160.8	140.4	128.5	120.2	113.5
57.5°	233.7	268.9	283.6	253.7	202.4	161.5	136.0	120.7	108.9	102.9	99.5
60°	211.5	241.6	251.9	218.8	175.9	141.3	120.5	106.2	97.5	93.6	90.2
62.5°	189.7	214.2	218.4	188.2	153.4	123.7	105.7	93.7	88.0	84.2	81.0
65°	157.3	175.0	173.0	148.7	121.4	98.2	85.1	77.8	73.4	68.2	62.4
67.5°	129.6	140.4	133.8	115.6	92.6	76.3	67.8	62.2	56.8	51.8	50.5
70°	111.9	118.2	111.3	94.5	75.9	64.0	57.2	50.5	47.3	46.2	44.0
72.5°	95.0	97.3	89.8	75.4	61.8	53.0	46.3	42.6	40.8	39.9	38.6
75°	71.3	69.8	63.3	52.1	42.9	37.0	34.8	33.5	32.3	31.4	30.7
77.5°	50.1	47.8	42.0	34.6	29.9	27.1	25.8	25.0	24.5	24.0	23.3
80°	37.7	36.1	30.3	24.7	22.7	21.3	20.6	19.7	19.7	19.3	18.6
82.5°	27.6	25.8	20.7	18.2	17.1	16.2	15.7	15.1	14.9	15.0	14.5
85°	14.4	11.7	10.3	9.9	9.2	8.7	9.0	8.5	8.5	8.5	8.3
87.5°	5.3	5.0	5.4	5.6	6.4	7.4	8.6	9.8	10.2	9.8	9.8
90°	4.0	8.1	10.1	12.1	15.1	20.2	27.2	33.2	34.2	33.2	32.2
92.5°	17.8	25.0	29.4	36.3	45.7	68.6	100.6	129.2	131.0	110.7	87.9
95°	39.3	49.4	58.5	74.6	98.8	145.1	232.8	349.7	395.1	345.7	264.1
97.5°	62.9	73.6	87.3	105.8	133.2	191.5	313.7	508.0	674.5	707.5	616.2
100°	80.6	89.7	105.8	126.0	154.2	207.6	330.6	548.3	796.2	941.4	920.2
102.5°	98.4	107.4	123.6	144.5	172.8	222.2	331.4	533.0	800.2	1028.4	1119.3
105°	127.0	134.0	149.2	171.4	199.5	246.9	336.6	502.9	746.8	1014.9	1224.6
107.5°	155.2	162.1	176.0	197.9	226.4	272.4	350.5	488.0	689.6	926.5	1148.8
110°	175.4	181.4	194.5	215.7	244.9	289.2	361.8	484.8	662.2	870.8	1083.5





TEST NUMBER: P331635-840

CATALOG NUMBER: S122RDIP-S290D925U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	193.1	200.0	212.3	232.6	262.7	305.4	374.0	485.5	644.4	832.1	1023.8
115°	221.8	227.8	239.8	260.0	287.2	330.6	392.0	489.8	624.9	784.2	950.4
117.5°	249.3	255.4	266.1	285.4	313.7	353.8	411.4	497.1	615.4	753.9	895.1
120°	267.1	273.2	282.2	302.4	330.6	369.9	424.3	501.9	609.8	737.8	867.8
122.5°	283.2	289.2	299.1	319.3	348.3	385.2	435.6	507.6	606.5	724.1	846.0
125°	305.4	311.4	323.6	343.7	371.9	408.2	453.5	516.0	600.7	704.5	814.4
127.5°	324.2	332.5	345.9	365.3	394.3	429.6	470.3	524.7	597.2	686.4	783.2
130°	334.6	344.7	358.8	379.0	407.2	442.4	480.8	531.2	595.6	674.3	763.0
132.5°	345.1	356.0	370.9	391.8	420.1	453.7	491.2	537.6	594.8	664.6	743.6
135°	358.8	370.9	386.0	409.2	437.4	469.7	504.9	545.2	593.6	651.1	716.6
137.5°	373.3	385.4	401.5	424.5	450.7	482.6	515.4	552.1	593.4	641.6	695.0
140°	383.0	395.1	411.2	433.4	459.6	489.8	521.1	555.3	592.6	636.0	681.4
142.5°	392.6	403.9	420.1	441.4	466.1	495.4	525.9	557.7	592.6	630.4	670.0
145°	409.2	419.3	434.4	454.5	476.8	503.9	532.2	560.4	590.6	622.9	654.1
147.5°	425.2	434.7	448.7	465.4	485.2	510.8	535.6	561.2	587.0	615.2	641.8
150°	436.4	444.4	457.6	472.7	490.8	514.0	537.1	560.4	584.6	608.7	633.0
152.5°	446.1	454.1	465.6	480.0	496.4	517.3	538.0	558.8	580.6	603.1	624.1
155°	461.6	467.7	478.8	489.8	504.9	522.1	539.2	556.3	573.5	592.6	611.8
157.5°	474.9	479.8	489.4	498.3	511.0	525.5	539.2	551.7	566.2	582.8	597.4
160°	483.8	487.8	495.8	503.9	515.0	527.1	539.2	549.3	561.4	575.5	588.5
162.5°	491.0	495.0	501.5	508.8	517.5	528.0	538.4	546.8	557.3	569.1	579.8
165°	500.9	502.9	509.0	514.0	520.1	529.2	536.2	542.2	549.3	558.4	566.4
167.5°	509.2	511.0	514.8	518.5	522.3	529.0	534.8	537.6	542.2	547.9	553.7
170°	514.0	515.0	518.1	520.1	523.1	528.2	533.2	535.2	538.2	542.2	547.2
172.5°	518.1	517.5	520.5	521.7	523.9	527.4	530.8	532.0	533.4	536.6	540.0
175°	522.1	521.1	523.1	523.1	524.1	526.1	528.2	527.1	528.2	529.2	532.2
177.5°	523.3	522.5	524.1	524.1	524.1	524.9	526.5	524.9	524.1	524.9	526.5
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1



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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°	9.2	9.6	9.8	9.8	9.8	9.8	9.6
90°	30.2	32.2	33.2	33.2	33.2	33.2	33.2
92.5°	75.4	67.0	60.7	59.9	56.7	57.5	55.8
95°	202.6	160.3	138.0	125.0	116.9	113.9	114.9
97.5°	504.1	395.1	322.3	274.2	249.3	234.6	226.2
100°	795.2	657.1	535.2	451.5	408.2	379.0	360.8
102.5°	1091.2	990.2	860.9	770.0	696.0	659.5	635.0
105°	1338.5	1351.6	1318.3	1255.8	1193.4	1149.9	1135.9
107.5°	1320.3	1425.1	1473.9	1481.8	1478.3	1469.7	1451.0
110°	1263.8	1392.9	1475.5	1518.8	1538.0	1547.1	1546.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1197.0	1334.8	1429.6	1489.9	1521.9	1539.0	1544.5
115°	1105.6	1237.7	1341.5	1413.0	1459.4	1485.6	1494.7
117.5°	1031.5	1151.1	1248.6	1321.5	1370.5	1398.2	1405.7
120°	992.8	1099.5	1191.3	1261.8	1309.2	1338.5	1348.6
122.5°	960.5	1061.7	1144.6	1207.8	1254.4	1280.4	1288.9
125°	918.2	1006.8	1082.5	1140.9	1179.2	1204.4	1212.4
127.5°	877.1	960.7	1030.5	1081.5	1117.3	1139.1	1145.6
130°	849.6	929.3	995.8	1045.2	1079.4	1099.5	1107.6
132.5°	823.8	897.0	959.5	1008.0	1042.4	1060.9	1068.1
135°	783.2	849.6	906.1	949.4	982.7	1000.8	1004.8
137.5°	750.6	803.4	852.6	892.2	920.8	936.8	942.8
140°	729.7	776.1	820.4	852.6	878.9	894.0	900.0
142.5°	711.1	751.0	788.2	818.8	842.6	856.1	857.3
145°	687.4	718.6	747.8	772.0	789.2	799.2	802.2
147.5°	668.0	692.4	713.8	733.8	747.4	754.3	756.1
150°	655.1	676.3	694.4	709.5	721.6	727.7	728.7
152.5°	644.6	662.6	678.3	690.1	700.6	705.1	705.3
155°	627.9	643.0	654.1	665.2	672.3	676.3	674.3
157.5°	611.0	623.7	632.4	640.2	646.0	647.8	647.8
160°	599.7	610.8	617.8	624.9	630.0	631.0	631.0
162.5°	589.2	598.6	604.1	611.2	614.6	615.6	614.8
165°	573.5	580.6	584.6	588.5	592.6	592.6	591.6
167.5°	559.2	564.0	567.6	569.5	571.7	571.5	570.3
170°	550.3	554.3	556.3	557.3	560.4	559.4	557.3
172.5°	542.2	545.4	546.6	547.6	549.1	548.1	546.8
175°	533.2	534.2	535.2	535.2	536.2	535.2	533.2
177.5°	526.5	527.4	527.4	527.4	527.4	526.5	524.9
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1

(END OF REPORT)