

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

Luminaire Tested: **S122RDIP-S290D925U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331635
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-S290D925U835-4F0-1E-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: 4745.8 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

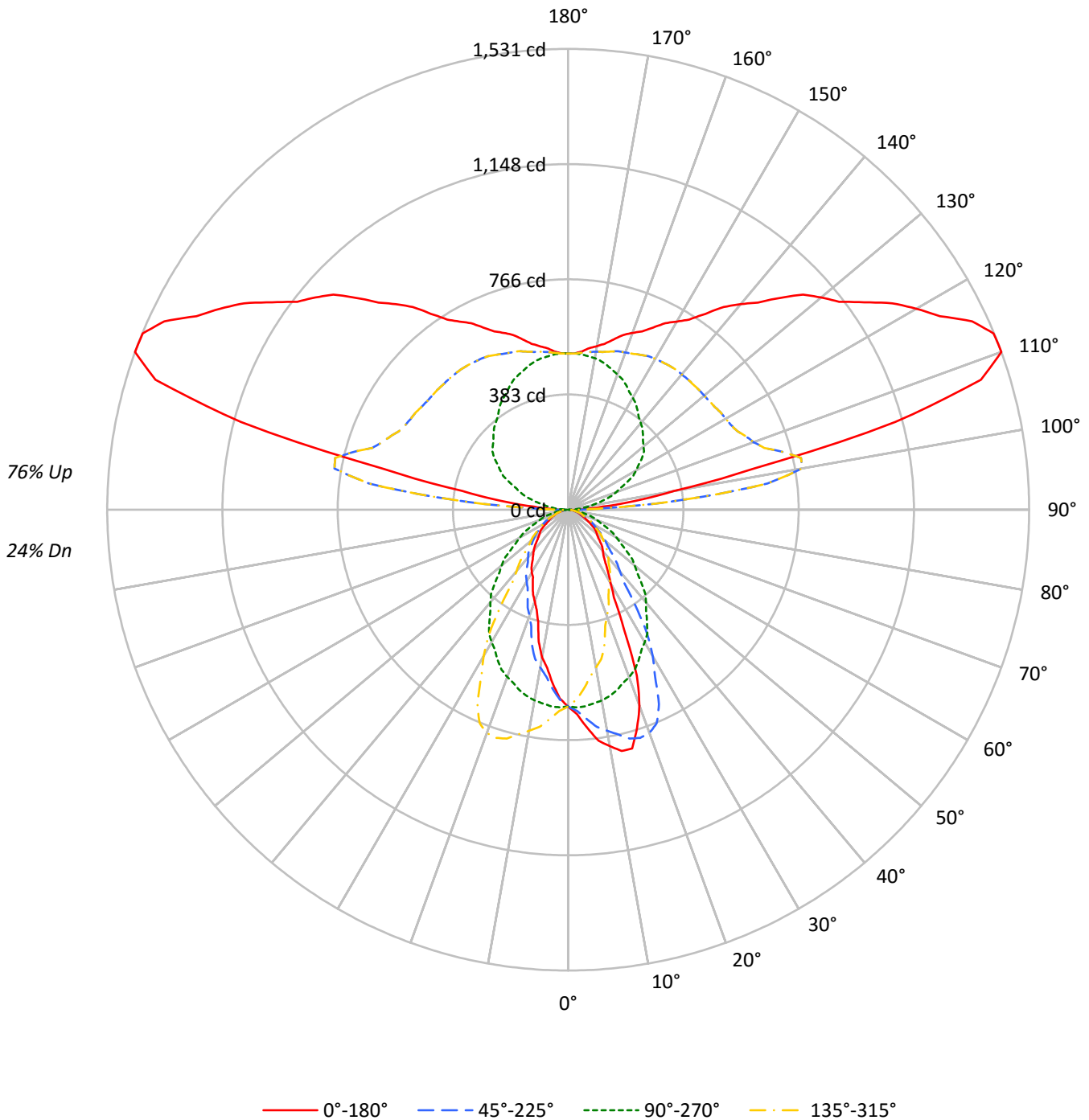
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10555	10555	10555	10555
5°	11788	10621	9418	10621
10°	13080	10547	8163	10547
15°	13722	10392	6432	10392
20°	11897	10163	5565	10163
25°	7801	9850	4969	9850
30°	5252	9469	4497	9469
35°	4254	8990	4056	8990
40°	3781	8469	3754	8469
45°	3423	7857	3350	7857
50°	3115	7252	3105	7252
55°	2928	6579	2891	6579
60°	2451	5964	2422	5964
65°	2067	5414	2342	5414
70°	1907	4834	2209	4834
75°	1784	4211	2040	4211
80°	1646	3468	1813	3468
85°	1519	2742	1593	2742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	1.3
10°-20°	172.7	3.6
20°-30°	222.5	4.7
30°-40°	211.5	4.5
40°-50°	181.1	3.8
50°-60°	137.9	2.9
60°-70°	87.2	1.8
70°-80°	43.5	0.9
80°-90°	16.0	0.3
90°-100°	207.5	4.4
100°-110°	704.2	14.8
110°-120°	748.1	15.8
120°-130°	615.8	13.0
130°-140°	494.5	10.4
140°-150°	373.7	7.9
150°-160°	262.6	5.5
160°-170°	154.6	3.3
170°-180°	50.3	1.1
0°-30°	457.2	9.6
0°-40°	668.6	14.1
0°-60°	987.7	20.8
0°-90°	1134.5	23.9
90°-120°	1659.8	35.0
90°-150°	3143.8	66.2
90°-180°	3611.0	76.1
0°-180°	4745.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	654	654	654	654	654	
5°	727	655	581	655	727	72
15°	821	622	385	622	821	221
25°	438	553	279	553	438	208
35°	216	456	206	456	216	138
45°	150	344	147	344	150	116
55°	104	234	103	234	104	91
65°	54	142	61	142	54	55
75°	29	68	33	68	29	30
85°	8	15	9	15	8	10
90°	33	1	33	1	33	18
95°	114	35	114	35	114	148
105°	1125	122	1125	122	1125	1088
115°	1480	215	1480	215	1480	1449
125°	1201	299	1201	299	1201	1085
135°	995	351	995	351	995	773
145°	794	401	794	401	794	505
155°	668	456	668	456	668	312
165°	586	497	586	497	586	168
175°	528	518	528	518	528	51
180°	519	519	519	519	519	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	680.3	680.8	681.4	680.1	680.1	679.0	676.6	674.8	669.7	669.0	669.0
5°	727.3	726.9	727.8	724.8	720.8	719.8	715.5	709.8	703.9	697.4	696.0
7.5°	774.1	773.4	771.6	771.1	768.0	761.1	754.2	746.8	737.0	727.4	722.6
10°	797.8	805.3	800.7	792.8	794.3	783.7	778.0	768.2	760.0	745.7	742.6
12.5°	821.0	824.0	822.5	818.0	816.0	808.6	800.9	792.4	777.3	764.5	753.3
15°	820.9	825.2	826.4	825.0	826.1	825.7	821.6	814.6	801.4	787.3	775.0
17.5°	760.3	763.3	770.8	775.8	782.2	795.6	802.3	804.8	802.9	794.8	786.2
20°	692.4	687.4	708.3	718.9	728.0	750.7	770.3	777.8	789.8	789.6	787.3
22.5°	596.0	597.2	617.0	629.7	656.2	679.0	701.2	729.4	752.7	768.1	777.1
25°	437.9	446.6	466.3	483.6	513.1	555.4	593.8	638.3	680.3	713.5	745.1
27.5°	328.9	329.6	345.2	361.2	378.7	413.3	461.7	514.8	574.7	624.2	681.0
30°	281.7	280.3	286.9	296.7	311.7	338.5	374.8	427.0	486.8	561.3	627.6
32.5°	248.2	248.3	253.3	260.5	272.9	291.0	315.9	358.4	414.8	488.1	565.8
35°	215.8	215.6	219.2	224.4	229.6	241.2	258.3	280.5	319.4	387.7	467.2
37.5°	192.5	193.5	195.3	198.6	204.3	210.8	221.0	236.0	263.6	304.1	370.9
40°	179.4	179.9	182.4	185.1	188.5	193.5	201.9	214.0	234.2	266.4	315.3
42.5°	167.5	167.9	169.7	172.2	174.9	179.9	186.9	197.3	213.7	238.8	279.1
45°	149.9	149.9	151.5	152.6	155.6	160.1	165.8	174.5	185.8	204.4	231.2
47.5°	133.5	133.5	134.6	136.5	138.4	141.9	147.5	154.6	162.8	177.2	200.1
50°	124.0	124.3	124.9	126.5	127.7	130.8	135.2	141.3	149.9	161.1	180.1
52.5°	116.4	116.3	117.1	117.8	118.6	120.8	124.1	129.5	137.2	146.9	162.7
55°	104.0	103.1	104.5	105.6	106.3	107.2	109.0	112.4	119.0	127.2	139.0
57.5°	88.6	88.2	89.2	90.2	92.4	94.8	96.4	98.5	101.9	107.8	119.5
60°	75.9	75.9	77.9	78.6	81.1	84.3	87.5	89.3	92.7	96.5	105.2
62.5°	64.6	64.8	65.7	66.4	67.8	71.7	76.2	80.2	83.4	87.1	92.8
65°	54.1	54.5	54.5	55.0	55.9	56.8	58.6	61.8	67.5	72.7	77.0
67.5°	45.9	46.0	46.2	46.6	46.8	47.8	48.6	50.0	51.3	56.2	61.6
70°	40.4	41.1	40.9	41.3	41.6	42.0	42.9	43.6	45.7	46.8	50.0
72.5°	35.3	35.8	35.8	36.1	36.7	36.8	37.5	38.2	39.5	40.4	42.2
75°	28.6	28.4	28.6	29.1	29.3	29.5	29.5	30.4	31.1	32.0	33.2
77.5°	22.1	22.3	22.3	22.3	22.4	22.8	22.7	23.1	23.8	24.3	24.8
80°	17.7	17.9	17.7	17.9	18.2	18.4	18.2	18.4	19.1	19.5	19.5
82.5°	13.7	13.8	13.9	13.9	14.0	14.0	14.4	14.4	14.9	14.8	15.0
85°	8.2	8.0	8.0	8.0	8.2	8.4	8.2	8.2	8.4	8.4	8.4
87.5°	9.5	9.7	9.7	9.7	9.7	9.5	9.1	9.7	9.7	10.1	9.7
90°	32.9	32.9	32.9	32.9	32.9	31.9	29.9	31.9	32.9	33.9	32.9
92.5°	55.3	56.9	56.1	59.3	60.1	66.3	74.7	87.0	109.6	129.7	127.9
95°	113.8	112.8	115.8	123.8	136.7	158.7	200.6	261.5	342.3	391.2	346.3
97.5°	224.0	232.3	246.9	271.5	319.2	391.2	499.2	610.2	700.6	667.9	503.0
100°	357.3	375.3	404.2	447.1	530.0	650.7	787.4	911.2	932.2	788.4	542.9
102.5°	628.8	653.1	689.2	762.5	852.5	980.5	1080.5	1108.4	1018.4	792.4	527.8
105°	1124.8	1138.7	1181.7	1243.5	1305.4	1338.4	1325.4	1212.6	1005.0	739.5	498.0
107.5°	1436.8	1455.3	1463.9	1467.3	1459.5	1411.2	1307.4	1137.6	917.4	682.9	483.2
110°	1531.0	1532.0	1523.0	1504.0	1461.1	1379.3	1251.5	1072.9	862.3	655.7	480.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1529.4	1524.0	1507.0	1475.3	1415.6	1321.8	1185.3	1013.8	824.0	638.1	480.8
115°	1480.1	1471.1	1445.1	1399.2	1328.4	1225.6	1094.8	941.1	776.5	618.8	485.0
117.5°	1392.0	1384.5	1357.1	1308.6	1236.4	1139.9	1021.4	886.4	746.5	609.4	492.2
120°	1335.4	1325.4	1296.4	1249.5	1179.7	1088.8	983.1	859.3	730.6	603.8	497.0
122.5°	1276.3	1267.9	1242.1	1196.0	1133.4	1051.3	951.1	837.7	717.0	600.6	502.6
125°	1200.6	1192.6	1167.7	1129.8	1071.9	997.0	909.2	806.4	697.6	594.8	511.0
127.5°	1134.4	1128.0	1106.4	1070.9	1020.4	951.3	868.5	775.5	679.7	591.4	519.6
130°	1096.8	1088.8	1068.9	1035.0	986.1	920.2	841.3	755.5	667.7	589.8	526.0
132.5°	1057.7	1050.5	1032.2	998.2	950.1	888.2	815.8	736.3	658.1	589.0	532.3
135°	995.0	991.0	973.1	940.1	897.2	841.3	775.5	709.6	644.7	587.8	539.9
137.5°	933.6	927.6	911.8	883.5	844.3	795.6	743.3	688.2	635.3	587.6	546.7
140°	891.2	885.3	870.3	844.3	812.4	768.5	722.6	674.7	629.8	586.8	549.9
142.5°	848.9	847.7	834.4	810.8	780.5	743.7	704.2	663.5	624.2	586.8	552.3
145°	794.4	791.4	781.5	764.5	740.5	711.6	680.7	647.7	616.8	584.8	554.9
147.5°	748.7	746.9	740.1	726.6	706.8	685.6	661.5	635.5	609.2	581.3	555.7
150°	721.6	720.6	714.6	702.6	687.6	669.7	648.7	626.8	602.8	578.9	554.9
152.5°	698.4	698.2	693.8	683.4	671.7	656.1	638.3	618.0	597.2	574.9	553.3
155°	667.7	669.7	665.7	658.7	647.7	636.7	621.8	605.8	586.8	567.9	550.9
157.5°	641.5	641.5	639.7	633.9	626.2	617.6	605.0	591.6	577.1	560.7	546.3
160°	624.8	624.8	623.8	618.8	611.8	604.8	593.8	582.8	569.9	555.9	543.9
162.5°	608.8	609.6	608.6	605.2	598.2	592.8	583.4	574.1	563.5	551.9	541.5
165°	585.8	586.8	586.8	582.8	578.9	574.9	567.9	560.9	552.9	543.9	536.9
167.5°	564.7	565.9	566.1	563.9	562.1	558.5	553.7	548.3	542.5	536.9	532.3
170°	551.9	553.9	554.9	551.9	550.9	548.9	544.9	541.9	536.9	532.9	530.0
172.5°	541.5	542.7	543.7	542.3	541.3	540.1	536.9	534.7	531.4	528.2	526.8
175°	528.0	530.0	531.0	530.0	530.0	529.0	528.0	527.0	524.0	523.0	522.0
177.5°	519.8	521.4	522.2	522.2	522.2	522.2	521.4	521.4	519.8	519.0	519.8
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	669.4	667.9	666.6	663.4	661.7	658.1	657.6	657.4	652.7	648.1	646.8
5°	692.4	688.7	683.3	676.9	670.3	663.5	659.0	655.3	646.2	637.6	632.6
7.5°	715.5	707.7	698.3	686.3	676.2	665.0	656.6	649.1	636.2	623.8	615.5
10°	732.8	720.1	707.6	691.0	678.0	665.3	653.5	643.3	628.8	612.4	600.8
12.5°	743.5	729.5	712.3	696.1	679.3	663.1	647.3	634.2	617.1	600.2	586.5
15°	758.0	743.0	722.1	698.9	677.4	656.2	638.1	621.7	599.5	579.2	562.4
17.5°	769.9	749.2	726.8	700.0	675.0	648.2	624.8	603.9	579.1	554.7	534.9
20°	773.7	753.2	727.3	700.5	671.0	639.4	614.2	591.5	564.9	538.3	515.6
22.5°	771.3	755.4	726.6	694.5	664.3	631.3	602.8	576.4	546.9	519.8	493.5
25°	755.3	749.8	722.6	687.6	653.1	614.7	581.7	552.9	519.3	490.2	461.6
27.5°	717.9	729.7	712.8	675.5	637.1	596.0	558.9	526.1	491.2	458.5	430.0
30°	681.9	708.9	701.7	667.1	624.2	583.8	542.2	507.9	470.7	437.0	408.9
32.5°	632.7	677.3	684.4	655.5	611.1	566.7	523.1	489.0	450.1	414.7	387.2
35°	554.2	621.0	651.7	633.3	588.8	540.8	495.9	456.1	417.0	382.1	354.8
37.5°	460.7	551.7	602.8	604.1	563.2	513.4	464.4	424.9	384.9	350.6	321.1
40°	400.0	498.6	565.2	579.9	545.4	491.6	442.0	401.8	362.8	329.1	295.3
42.5°	345.5	443.7	525.5	551.2	523.8	470.3	420.6	378.6	340.6	308.8	274.2
45°	279.4	365.3	455.4	501.3	486.1	436.6	384.1	344.1	308.5	281.0	247.8
47.5°	235.7	296.2	383.5	445.5	445.3	400.1	348.4	310.2	277.1	251.3	224.5
50°	210.8	263.5	337.3	407.7	413.6	375.7	326.6	288.7	257.8	230.8	209.2
52.5°	188.4	231.9	298.2	365.8	382.6	349.7	302.1	267.1	237.1	212.2	193.8
55°	159.2	192.9	243.3	306.4	331.9	308.7	266.4	233.7	209.4	188.5	172.6
57.5°	134.7	159.9	200.4	251.2	280.8	266.3	231.4	204.8	184.0	165.1	152.6
60°	119.3	139.9	174.2	216.7	249.4	239.2	209.4	184.7	167.0	150.6	138.8
62.5°	104.7	122.5	151.9	186.4	216.3	212.1	187.8	167.0	151.5	136.6	126.6
65°	84.3	97.2	120.2	147.2	171.3	173.3	155.8	141.7	127.9	116.1	107.2
67.5°	67.1	75.6	91.7	114.5	132.5	139.0	128.3	117.5	106.5	97.4	89.7
70°	56.6	63.4	75.2	93.6	110.2	117.0	110.8	102.4	92.9	85.4	78.8
72.5°	45.8	52.5	61.2	74.7	88.9	96.3	94.1	88.1	80.4	74.1	67.9
75°	34.5	36.6	42.5	51.6	62.7	69.1	70.6	67.5	61.3	56.6	52.9
77.5°	25.5	26.8	29.6	34.3	41.6	47.3	49.6	49.2	45.0	42.3	38.8
80°	20.4	21.1	22.5	24.5	30.0	35.7	37.3	37.3	34.3	33.2	29.8
82.5°	15.5	16.0	16.9	18.0	20.5	25.5	27.3	27.6	25.8	24.3	21.6
85°	8.9	8.6	9.1	9.8	10.2	11.6	14.3	14.8	14.3	12.5	11.8
87.5°	8.5	7.3	6.3	5.5	5.3	5.0	5.2	5.5	5.3	5.6	5.6
90°	26.9	20.0	15.0	12.0	10.0	8.0	4.0	1.0	4.0	8.0	10.0
92.5°	99.6	67.9	45.3	35.9	29.1	24.8	17.6	12.2	17.6	24.8	29.1
95°	230.5	143.7	97.8	73.9	57.9	48.9	38.9	34.9	38.9	48.9	57.9
97.5°	310.6	189.6	131.9	104.8	86.4	72.9	62.3	56.9	62.3	72.9	86.4
100°	327.4	205.6	152.7	124.8	104.8	88.8	79.8	76.8	79.8	88.8	104.8
102.5°	328.2	220.0	171.1	143.1	122.4	106.4	97.4	95.2	97.4	106.4	122.4
105°	333.3	244.5	197.6	169.7	147.7	132.7	125.8	121.8	125.8	132.7	147.7
107.5°	347.1	269.7	224.2	196.0	174.3	160.5	153.7	150.5	153.7	160.5	174.3
110°	358.3	286.4	242.5	213.6	192.6	179.6	173.7	169.7	173.7	179.6	192.6



TEST NUMBER: P331635

CATALOG NUMBER: S122RDIP-S290D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	370.3	302.4	260.1	230.3	210.2	198.0	191.2	187.2	191.2	198.0	210.2
115°	388.2	327.4	284.4	257.5	237.5	225.6	219.6	214.6	219.6	225.6	237.5
117.5°	407.4	350.3	310.6	282.6	263.5	252.9	246.9	242.9	246.9	252.9	263.5
120°	420.2	366.3	327.4	299.4	279.4	270.5	264.5	260.5	264.5	270.5	279.4
122.5°	431.3	381.4	344.9	316.2	296.2	286.4	280.4	277.3	280.4	286.4	296.2
125°	449.1	404.2	368.3	340.3	320.4	308.4	302.4	299.4	302.4	308.4	320.4
127.5°	465.7	425.4	390.4	361.7	342.5	329.3	321.0	317.0	321.0	329.3	342.5
130°	476.1	438.1	403.2	375.3	355.3	341.3	331.3	327.4	331.3	341.3	355.3
132.5°	486.4	449.3	416.0	388.0	367.3	352.5	341.7	336.9	341.7	352.5	367.3
135°	500.0	465.1	433.1	405.2	382.2	367.3	355.3	351.3	355.3	367.3	382.2
137.5°	510.4	477.9	446.3	420.4	397.6	381.6	369.7	364.9	369.7	381.6	397.6
140°	516.0	485.0	455.1	429.2	407.2	391.2	379.3	375.3	379.3	391.2	407.2
142.5°	520.8	490.6	461.5	437.1	416.0	400.0	388.8	385.6	388.8	400.0	416.0
145°	527.0	499.0	472.1	450.1	430.2	415.2	405.2	401.2	405.2	415.2	430.2
147.5°	530.4	505.8	480.5	460.9	444.3	430.5	421.0	418.0	421.0	430.5	444.3
150°	531.9	509.0	486.0	468.1	453.1	440.1	432.1	429.2	432.1	440.1	453.1
152.5°	532.7	512.2	491.6	475.3	461.1	449.7	441.7	440.3	441.7	449.7	461.1
155°	533.9	517.0	500.0	485.0	474.1	463.1	457.1	456.1	457.1	463.1	474.1
157.5°	533.9	520.4	506.0	493.4	484.6	475.1	470.3	469.3	470.3	475.1	484.6
160°	533.9	522.0	510.0	499.0	491.0	483.0	479.1	478.1	479.1	483.0	491.0
162.5°	533.1	522.8	512.4	503.8	496.6	490.2	486.2	486.8	486.2	490.2	496.6
165°	531.0	524.0	515.0	509.0	504.0	498.0	496.0	497.0	496.0	498.0	504.0
167.5°	529.6	523.8	517.2	513.4	509.8	506.0	504.2	505.4	504.2	506.0	509.8
170°	528.0	523.0	518.0	515.0	513.0	510.0	509.0	511.0	509.0	510.0	513.0
172.5°	525.6	522.2	518.8	516.6	515.4	512.4	513.0	514.2	513.0	512.4	515.4
175°	523.0	521.0	519.0	518.0	518.0	516.0	517.0	518.0	517.0	516.0	518.0
177.5°	521.4	519.8	519.0	519.0	519.0	517.4	518.2	519.8	518.2	517.4	519.0
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331635

CATALOG NUMBER: S122RDIP-S290D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	644.5	643.2	640.8	637.2	635.0	631.2	628.7	630.1	630.5	630.1	629.8
5°	627.2	622.4	615.8	609.4	603.5	597.2	593.5	592.0	588.8	587.0	586.0
7.5°	606.2	598.0	588.7	577.6	568.2	558.3	553.3	550.8	544.3	540.8	537.7
10°	590.6	577.6	568.3	553.8	544.9	532.0	523.1	523.4	514.5	509.5	505.9
12.5°	573.3	559.1	543.6	530.5	518.2	507.8	497.1	492.8	483.4	478.6	468.8
15°	544.7	528.1	511.8	494.1	481.6	465.4	450.0	431.1	415.9	402.7	399.1
17.5°	513.5	492.9	476.5	455.7	434.3	407.2	389.3	378.3	369.2	362.2	357.0
20°	492.0	471.1	453.6	422.3	393.4	375.0	361.9	353.4	343.9	336.4	332.3
22.5°	469.5	447.7	423.8	388.8	366.3	351.6	339.9	330.2	323.7	317.9	314.1
25°	437.5	413.6	374.3	350.3	332.1	316.6	308.5	302.6	295.8	287.8	284.2
27.5°	403.7	365.8	337.5	319.6	302.3	292.3	284.9	276.1	270.0	266.4	262.6
30°	378.4	340.5	318.5	298.9	286.7	275.5	266.9	261.9	256.0	249.9	247.4
32.5°	350.3	320.0	298.8	282.6	270.1	260.6	253.8	245.7	241.5	237.7	232.5
35°	315.3	292.3	273.0	259.9	248.0	240.3	232.4	227.6	219.9	216.7	214.7
37.5°	285.7	265.8	251.4	237.5	228.1	219.6	214.7	207.1	203.8	199.3	195.0
40°	268.9	249.4	235.6	224.2	213.7	207.4	201.3	195.1	190.1	188.1	182.9
42.5°	251.9	236.0	222.1	209.7	202.7	195.9	188.2	183.7	178.5	175.2	172.0
45°	228.3	214.2	202.4	192.2	184.4	177.4	172.4	164.9	162.0	155.4	152.6
47.5°	207.6	194.5	183.2	173.5	166.0	161.4	154.1	148.2	143.5	139.4	135.9
50°	192.9	181.9	171.0	162.4	155.6	149.0	141.5	138.6	131.3	129.2	127.2
52.5°	179.4	169.0	159.1	150.6	143.8	137.4	130.8	126.9	122.0	120.0	118.5
55°	160.6	150.6	141.1	133.6	126.8	120.2	116.1	111.3	109.0	107.4	105.6
57.5°	141.7	132.7	125.4	117.8	110.9	105.7	101.0	98.1	95.8	93.7	91.5
60°	129.7	121.1	114.5	107.4	100.4	96.1	92.5	89.0	86.3	83.1	82.2
62.5°	117.0	109.4	103.4	96.5	90.4	86.5	83.0	79.8	76.5	71.9	70.6
65°	99.5	93.6	87.2	81.5	76.1	72.2	67.2	63.6	62.2	61.8	61.6
67.5°	83.7	78.1	72.6	66.8	61.9	58.3	55.7	55.2	54.2	54.0	53.3
70°	73.1	67.9	62.5	57.0	52.2	51.6	50.7	49.7	48.6	48.2	47.7
72.5°	63.7	58.3	52.8	48.5	46.4	45.6	44.7	43.7	43.0	42.5	42.3
75°	48.8	43.8	40.2	38.6	37.5	36.8	35.4	34.8	34.3	33.6	33.4
77.5°	35.2	32.3	30.7	29.7	28.5	27.8	27.0	26.3	25.8	25.7	25.3
80°	26.8	25.4	24.3	22.9	22.5	21.6	21.4	20.7	20.9	20.2	20.2
82.5°	20.8	19.1	18.1	17.5	17.0	16.3	16.1	15.8	15.8	15.3	15.3
85°	10.7	10.2	9.8	9.3	9.3	8.6	8.9	8.6	8.6	8.2	8.0
87.5°	5.8	6.3	6.9	8.3	9.5	9.5	9.3	8.9	8.5	8.9	8.9
90°	12.0	15.0	20.0	26.9	32.9	33.9	32.9	31.9	29.9	31.9	32.9
92.5°	35.9	45.3	67.9	99.6	127.9	129.7	109.6	87.0	74.7	66.3	60.1
95°	73.9	97.8	143.7	230.5	346.3	391.2	342.3	261.5	200.6	158.7	136.7
97.5°	104.8	131.9	189.6	310.6	503.0	667.9	700.6	610.2	499.2	391.2	319.2
100°	124.8	152.7	205.6	327.4	542.9	788.4	932.2	911.2	787.4	650.7	530.0
102.5°	143.1	171.1	220.0	328.2	527.8	792.4	1018.4	1108.4	1080.5	980.5	852.5
105°	169.7	197.6	244.5	333.3	498.0	739.5	1005.0	1212.6	1325.4	1338.4	1305.4
107.5°	196.0	224.2	269.7	347.1	483.2	682.9	917.4	1137.6	1307.4	1411.2	1459.5
110°	213.6	242.5	286.4	358.3	480.1	655.7	862.3	1072.9	1251.5	1379.3	1461.1

TEST NUMBER: P331635

CATALOG NUMBER: S122RDIP-S290D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	230.3	260.1	302.4	370.3	480.8	638.1	824.0	1013.8	1185.3	1321.8	1415.6
115°	257.5	284.4	327.4	388.2	485.0	618.8	776.5	941.1	1094.8	1225.6	1328.4
117.5°	282.6	310.6	350.3	407.4	492.2	609.4	746.5	886.4	1021.4	1139.9	1236.4
120°	299.4	327.4	366.3	420.2	497.0	603.8	730.6	859.3	983.1	1088.8	1179.7
122.5°	316.2	344.9	381.4	431.3	502.6	600.6	717.0	837.7	951.1	1051.3	1133.4
125°	340.3	368.3	404.2	449.1	511.0	594.8	697.6	806.4	909.2	997.0	1071.9
127.5°	361.7	390.4	425.4	465.7	519.6	591.4	679.7	775.5	868.5	951.3	1020.4
130°	375.3	403.2	438.1	476.1	526.0	589.8	667.7	755.5	841.3	920.2	986.1
132.5°	388.0	416.0	449.3	486.4	532.3	589.0	658.1	736.3	815.8	888.2	950.1
135°	405.2	433.1	465.1	500.0	539.9	587.8	644.7	709.6	775.5	841.3	897.2
137.5°	420.4	446.3	477.9	510.4	546.7	587.6	635.3	688.2	743.3	795.6	844.3
140°	429.2	455.1	485.0	516.0	549.9	586.8	629.8	674.7	722.6	768.5	812.4
142.5°	437.1	461.5	490.6	520.8	552.3	586.8	624.2	663.5	704.2	743.7	780.5
145°	450.1	472.1	499.0	527.0	554.9	584.8	616.8	647.7	680.7	711.6	740.5
147.5°	460.9	480.5	505.8	530.4	555.7	581.3	609.2	635.5	661.5	685.6	706.8
150°	468.1	486.0	509.0	531.9	554.9	578.9	602.8	626.8	648.7	669.7	687.6
152.5°	475.3	491.6	512.2	532.7	553.3	574.9	597.2	618.0	638.3	656.1	671.7
155°	485.0	500.0	517.0	533.9	550.9	567.9	586.8	605.8	621.8	636.7	647.7
157.5°	493.4	506.0	520.4	533.9	546.3	560.7	577.1	591.6	605.0	617.6	626.2
160°	499.0	510.0	522.0	533.9	543.9	555.9	569.9	582.8	593.8	604.8	611.8
162.5°	503.8	512.4	522.8	533.1	541.5	551.9	563.5	574.1	583.4	592.8	598.2
165°	509.0	515.0	524.0	531.0	536.9	543.9	552.9	560.9	567.9	574.9	578.9
167.5°	513.4	517.2	523.8	529.6	532.3	536.9	542.5	548.3	553.7	558.5	562.1
170°	515.0	518.0	523.0	528.0	530.0	532.9	536.9	541.9	544.9	548.9	550.9
172.5°	516.6	518.8	522.2	525.6	526.8	528.2	531.4	534.7	536.9	540.1	541.3
175°	518.0	519.0	521.0	523.0	522.0	523.0	524.0	527.0	528.0	529.0	530.0
177.5°	519.0	519.0	519.8	521.4	519.8	519.0	519.8	521.4	521.4	522.2	522.2
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0

TEST NUMBER: P331635

CATALOG NUMBER: S122RDIP-S290D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	627.8	628.1	627.6	627.9	627.6	628.1	627.8	629.8	630.1	630.5	630.1
5°	584.9	582.2	581.7	581.1	581.7	582.2	584.9	586.0	587.0	588.8	592.0
7.5°	533.8	533.4	532.2	530.6	532.2	533.4	533.8	537.7	540.8	544.3	550.8
10°	500.9	499.7	499.5	497.9	499.5	499.7	500.9	505.9	509.5	514.5	523.4
12.5°	462.3	455.0	454.3	450.3	454.3	455.0	462.3	468.8	478.6	483.4	492.8
15°	393.7	392.3	387.7	384.8	387.7	392.3	393.7	399.1	402.7	415.9	431.1
17.5°	354.4	349.9	348.5	347.9	348.5	349.9	354.4	357.0	362.2	369.2	378.3
20°	329.1	325.1	324.4	323.9	324.4	325.1	329.1	332.3	336.4	343.9	353.4
22.5°	311.7	307.4	305.7	304.3	305.7	307.4	311.7	314.1	317.9	323.7	330.2
25°	281.9	280.3	279.4	278.9	279.4	280.3	281.9	284.2	287.8	295.8	302.6
27.5°	258.6	255.1	254.4	253.2	254.4	255.1	258.6	262.6	266.4	270.0	276.1
30°	245.3	244.2	242.6	241.2	242.6	244.2	245.3	247.4	249.9	256.0	261.9
32.5°	229.7	228.7	227.3	226.7	227.3	228.7	229.7	232.5	237.7	241.5	245.7
35°	212.4	209.2	207.8	205.8	207.8	209.2	212.4	214.7	216.7	219.9	227.6
37.5°	194.1	192.4	190.5	191.2	190.5	192.4	194.1	195.0	199.3	203.8	207.1
40°	179.9	178.8	178.3	178.1	178.3	178.8	179.9	182.9	188.1	190.1	195.1
42.5°	168.6	165.5	164.3	164.3	164.3	165.5	168.6	172.0	175.2	178.5	183.7
45°	151.5	148.6	146.5	146.7	146.5	148.6	151.5	152.6	155.4	162.0	164.9
47.5°	134.0	133.9	132.6	133.0	132.6	133.9	134.0	135.9	139.4	143.5	148.2
50°	125.6	124.3	123.3	123.6	123.3	124.3	125.6	127.2	129.2	131.3	138.6
52.5°	117.6	116.4	115.7	116.7	115.7	116.4	117.6	118.5	120.0	122.0	126.9
55°	104.5	103.1	102.9	102.7	102.9	103.1	104.5	105.6	107.4	109.0	111.3
57.5°	89.8	88.9	87.5	87.0	87.5	88.9	89.8	91.5	93.7	95.8	98.1
60°	79.3	77.5	75.2	75.0	75.2	77.5	79.3	82.2	83.1	86.3	89.0
62.5°	69.6	69.3	68.8	68.8	68.8	69.3	69.6	70.6	71.9	76.5	79.8
65°	61.1	60.9	61.1	61.3	61.1	60.9	61.1	61.6	61.8	62.2	63.6
67.5°	53.2	52.8	52.4	52.6	52.4	52.8	53.2	53.3	54.0	54.2	55.2
70°	47.2	47.0	46.8	46.8	46.8	47.0	47.2	47.7	48.2	48.6	49.7
72.5°	41.4	41.4	41.2	41.0	41.2	41.4	41.4	42.3	42.5	43.0	43.7
75°	33.2	32.7	32.7	32.7	32.7	32.7	33.2	33.4	33.6	34.3	34.8
77.5°	25.3	25.0	24.8	24.6	24.8	25.0	25.3	25.3	25.7	25.8	26.3
80°	20.0	19.8	19.5	19.5	19.5	19.8	20.0	20.2	20.2	20.9	20.7
82.5°	15.3	15.0	15.0	14.8	15.0	15.0	15.3	15.3	15.3	15.8	15.8
85°	8.2	8.4	8.2	8.6	8.2	8.4	8.2	8.0	8.2	8.6	8.6
87.5°	8.9	8.8	8.9	8.8	8.9	8.8	8.9	8.9	8.9	8.5	8.9
90°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	31.9	29.9	31.9
92.5°	59.3	56.1	56.9	55.3	56.9	56.1	59.3	60.1	66.3	74.7	87.0
95°	123.8	115.8	112.8	113.8	112.8	115.8	123.8	136.7	158.7	200.6	261.5
97.5°	271.5	246.9	232.3	224.0	232.3	246.9	271.5	319.2	391.2	499.2	610.2
100°	447.1	404.2	375.3	357.3	375.3	404.2	447.1	530.0	650.7	787.4	911.2
102.5°	762.5	689.2	653.1	628.8	653.1	689.2	762.5	852.5	980.5	1080.5	1108.4
105°	1243.5	1181.7	1138.7	1124.8	1138.7	1181.7	1243.5	1305.4	1338.4	1325.4	1212.6
107.5°	1467.3	1463.9	1455.3	1436.8	1455.3	1463.9	1467.3	1459.5	1411.2	1307.4	1137.6
110°	1504.0	1523.0	1532.0	1531.0	1532.0	1523.0	1504.0	1461.1	1379.3	1251.5	1072.9



TEST NUMBER: P331635

CATALOG NUMBER: S122RDIP-S290D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1475.3	1507.0	1524.0	1529.4	1524.0	1507.0	1475.3	1415.6	1321.8	1185.3	1013.8
115°	1399.2	1445.1	1471.1	1480.1	1471.1	1445.1	1399.2	1328.4	1225.6	1094.8	941.1
117.5°	1308.6	1357.1	1384.5	1392.0	1384.5	1357.1	1308.6	1236.4	1139.9	1021.4	886.4
120°	1249.5	1296.4	1325.4	1335.4	1325.4	1296.4	1249.5	1179.7	1088.8	983.1	859.3
122.5°	1196.0	1242.1	1267.9	1276.3	1267.9	1242.1	1196.0	1133.4	1051.3	951.1	837.7
125°	1129.8	1167.7	1192.6	1200.6	1192.6	1167.7	1129.8	1071.9	997.0	909.2	806.4
127.5°	1070.9	1106.4	1128.0	1134.4	1128.0	1106.4	1070.9	1020.4	951.3	868.5	775.5
130°	1035.0	1068.9	1088.8	1096.8	1088.8	1068.9	1035.0	986.1	920.2	841.3	755.5
132.5°	998.2	1032.2	1050.5	1057.7	1050.5	1032.2	998.2	950.1	888.2	815.8	736.3
135°	940.1	973.1	991.0	995.0	991.0	973.1	940.1	897.2	841.3	775.5	709.6
137.5°	883.5	911.8	927.6	933.6	927.6	911.8	883.5	844.3	795.6	743.3	688.2
140°	844.3	870.3	885.3	891.2	885.3	870.3	844.3	812.4	768.5	722.6	674.7
142.5°	810.8	834.4	847.7	848.9	847.7	834.4	810.8	780.5	743.7	704.2	663.5
145°	764.5	781.5	791.4	794.4	791.4	781.5	764.5	740.5	711.6	680.7	647.7
147.5°	726.6	740.1	746.9	748.7	746.9	740.1	726.6	706.8	685.6	661.5	635.5
150°	702.6	714.6	720.6	721.6	720.6	714.6	702.6	687.6	669.7	648.7	626.8
152.5°	683.4	693.8	698.2	698.4	698.2	693.8	683.4	671.7	656.1	638.3	618.0
155°	658.7	665.7	669.7	667.7	669.7	665.7	658.7	647.7	636.7	621.8	605.8
157.5°	633.9	639.7	641.5	641.5	641.5	639.7	633.9	626.2	617.6	605.0	591.6
160°	618.8	623.8	624.8	624.8	624.8	623.8	618.8	611.8	604.8	593.8	582.8
162.5°	605.2	608.6	609.6	608.8	609.6	608.6	605.2	598.2	592.8	583.4	574.1
165°	582.8	586.8	586.8	585.8	586.8	586.8	582.8	578.9	574.9	567.9	560.9
167.5°	563.9	566.1	565.9	564.7	565.9	566.1	563.9	562.1	558.5	553.7	548.3
170°	551.9	554.9	553.9	551.9	553.9	554.9	551.9	550.9	548.9	544.9	541.9
172.5°	542.3	543.7	542.7	541.5	542.7	543.7	542.3	541.3	540.1	536.9	534.7
175°	530.0	531.0	530.0	528.0	530.0	531.0	530.0	530.0	529.0	528.0	527.0
177.5°	522.2	522.2	521.4	519.8	521.4	522.2	522.2	522.2	522.2	521.4	521.4
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331635

CATALOG NUMBER: S122RDIP-S290D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	628.7	631.2	635.0	637.2	640.8	643.2	644.5	646.8	648.1	652.7	657.4
5°	593.5	597.2	603.5	609.4	615.8	622.4	627.2	632.6	637.6	646.2	655.3
7.5°	553.3	558.3	568.2	577.6	588.7	598.0	606.2	615.5	623.8	636.2	649.1
10°	523.1	532.0	544.9	553.8	568.3	577.6	590.6	600.8	612.4	628.8	643.3
12.5°	497.1	507.8	518.2	530.5	543.6	559.1	573.3	586.5	600.2	617.1	634.2
15°	450.0	465.4	481.6	494.1	511.8	528.1	544.7	562.4	579.2	599.5	621.7
17.5°	389.3	407.2	434.3	455.7	476.5	492.9	513.5	534.9	554.7	579.1	603.9
20°	361.9	375.0	393.4	422.3	453.6	471.1	492.0	515.6	538.3	564.9	591.5
22.5°	339.9	351.6	366.3	388.8	423.8	447.7	469.5	493.5	519.8	546.9	576.4
25°	308.5	316.6	332.1	350.3	374.3	413.6	437.5	461.6	490.2	519.3	552.9
27.5°	284.9	292.3	302.3	319.6	337.5	365.8	403.7	430.0	458.5	491.2	526.1
30°	266.9	275.5	286.7	298.9	318.5	340.5	378.4	408.9	437.0	470.7	507.9
32.5°	253.8	260.6	270.1	282.6	298.8	320.0	350.3	387.2	414.7	450.1	489.0
35°	232.4	240.3	248.0	259.9	273.0	292.3	315.3	354.8	382.1	417.0	456.1
37.5°	214.7	219.6	228.1	237.5	251.4	265.8	285.7	321.1	350.6	384.9	424.9
40°	201.3	207.4	213.7	224.2	235.6	249.4	268.9	295.3	329.1	362.8	401.8
42.5°	188.2	195.9	202.7	209.7	222.1	236.0	251.9	274.2	308.8	340.6	378.6
45°	172.4	177.4	184.4	192.2	202.4	214.2	228.3	247.8	281.0	308.5	344.1
47.5°	154.1	161.4	166.0	173.5	183.2	194.5	207.6	224.5	251.3	277.1	310.2
50°	141.5	149.0	155.6	162.4	171.0	181.9	192.9	209.2	230.8	257.8	288.7
52.5°	130.8	137.4	143.8	150.6	159.1	169.0	179.4	193.8	212.2	237.1	267.1
55°	116.1	120.2	126.8	133.6	141.1	150.6	160.6	172.6	188.5	209.4	233.7
57.5°	101.0	105.7	110.9	117.8	125.4	132.7	141.7	152.6	165.1	184.0	204.8
60°	92.5	96.1	100.4	107.4	114.5	121.1	129.7	138.8	150.6	167.0	184.7
62.5°	83.0	86.5	90.4	96.5	103.4	109.4	117.0	126.6	136.6	151.5	167.0
65°	67.2	72.2	76.1	81.5	87.2	93.6	99.5	107.2	116.1	127.9	141.7
67.5°	55.7	58.3	61.9	66.8	72.6	78.1	83.7	89.7	97.4	106.5	117.5
70°	50.7	51.6	52.2	57.0	62.5	67.9	73.1	78.8	85.4	92.9	102.4
72.5°	44.7	45.6	46.4	48.5	52.8	58.3	63.7	67.9	74.1	80.4	88.1
75°	35.4	36.8	37.5	38.6	40.2	43.8	48.8	52.9	56.6	61.3	67.5
77.5°	27.0	27.8	28.5	29.7	30.7	32.3	35.2	38.8	42.3	45.0	49.2
80°	21.4	21.6	22.5	22.9	24.3	25.4	26.8	29.8	33.2	34.3	37.3
82.5°	16.1	16.3	17.0	17.5	18.1	19.1	20.8	21.6	24.3	25.8	27.6
85°	8.9	8.6	9.3	9.3	9.8	10.2	10.7	11.8	12.5	14.3	14.8
87.5°	9.3	9.5	9.5	8.3	6.9	6.3	5.8	5.6	5.6	5.3	5.5
90°	32.9	33.9	32.9	26.9	20.0	15.0	12.0	10.0	8.0	4.0	1.0
92.5°	109.6	129.7	127.9	99.6	67.9	45.3	35.9	29.1	24.8	17.6	12.2
95°	342.3	391.2	346.3	230.5	143.7	97.8	73.9	57.9	48.9	38.9	34.9
97.5°	700.6	667.9	503.0	310.6	189.6	131.9	104.8	86.4	72.9	62.3	56.9
100°	932.2	788.4	542.9	327.4	205.6	152.7	124.8	104.8	88.8	79.8	76.8
102.5°	1018.4	792.4	527.8	328.2	220.0	171.1	143.1	122.4	106.4	97.4	95.2
105°	1005.0	739.5	498.0	333.3	244.5	197.6	169.7	147.7	132.7	125.8	121.8
107.5°	917.4	682.9	483.2	347.1	269.7	224.2	196.0	174.3	160.5	153.7	150.5
110°	862.3	655.7	480.1	358.3	286.4	242.5	213.6	192.6	179.6	173.7	169.7



TEST NUMBER: P331635

CATALOG NUMBER: S122RDIP-S290D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	824.0	638.1	480.8	370.3	302.4	260.1	230.3	210.2	198.0	191.2	187.2
115°	776.5	618.8	485.0	388.2	327.4	284.4	257.5	237.5	225.6	219.6	214.6
117.5°	746.5	609.4	492.2	407.4	350.3	310.6	282.6	263.5	252.9	246.9	242.9
120°	730.6	603.8	497.0	420.2	366.3	327.4	299.4	279.4	270.5	264.5	260.5
122.5°	717.0	600.6	502.6	431.3	381.4	344.9	316.2	296.2	286.4	280.4	277.3
125°	697.6	594.8	511.0	449.1	404.2	368.3	340.3	320.4	308.4	302.4	299.4
127.5°	679.7	591.4	519.6	465.7	425.4	390.4	361.7	342.5	329.3	321.0	317.0
130°	667.7	589.8	526.0	476.1	438.1	403.2	375.3	355.3	341.3	331.3	327.4
132.5°	658.1	589.0	532.3	486.4	449.3	416.0	388.0	367.3	352.5	341.7	336.9
135°	644.7	587.8	539.9	500.0	465.1	433.1	405.2	382.2	367.3	355.3	351.3
137.5°	635.3	587.6	546.7	510.4	477.9	446.3	420.4	397.6	381.6	369.7	364.9
140°	629.8	586.8	549.9	516.0	485.0	455.1	429.2	407.2	391.2	379.3	375.3
142.5°	624.2	586.8	552.3	520.8	490.6	461.5	437.1	416.0	400.0	388.8	385.6
145°	616.8	584.8	554.9	527.0	499.0	472.1	450.1	430.2	415.2	405.2	401.2
147.5°	609.2	581.3	555.7	530.4	505.8	480.5	460.9	444.3	430.5	421.0	418.0
150°	602.8	578.9	554.9	531.9	509.0	486.0	468.1	453.1	440.1	432.1	429.2
152.5°	597.2	574.9	553.3	532.7	512.2	491.6	475.3	461.1	449.7	441.7	440.3
155°	586.8	567.9	550.9	533.9	517.0	500.0	485.0	474.1	463.1	457.1	456.1
157.5°	577.1	560.7	546.3	533.9	520.4	506.0	493.4	484.6	475.1	470.3	469.3
160°	569.9	555.9	543.9	533.9	522.0	510.0	499.0	491.0	483.0	479.1	478.1
162.5°	563.5	551.9	541.5	533.1	522.8	512.4	503.8	496.6	490.2	486.2	486.8
165°	552.9	543.9	536.9	531.0	524.0	515.0	509.0	504.0	498.0	496.0	497.0
167.5°	542.5	536.9	532.3	529.6	523.8	517.2	513.4	509.8	506.0	504.2	505.4
170°	536.9	532.9	530.0	528.0	523.0	518.0	515.0	513.0	510.0	509.0	511.0
172.5°	531.4	528.2	526.8	525.6	522.2	518.8	516.6	515.4	512.4	513.0	514.2
175°	524.0	523.0	522.0	523.0	521.0	519.0	518.0	518.0	516.0	517.0	518.0
177.5°	519.8	519.0	519.8	521.4	519.8	519.0	519.0	519.0	517.4	518.2	519.8
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331635

CATALOG NUMBER: S122RDIP-S290D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	657.6	658.1	661.7	663.4	666.6	667.9	669.4	669.0	669.0	669.7	674.8
5°	659.0	663.5	670.3	676.9	683.3	688.7	692.4	696.0	697.4	703.9	709.8
7.5°	656.6	665.0	676.2	686.3	698.3	707.7	715.5	722.6	727.4	737.0	746.8
10°	653.5	665.3	678.0	691.0	707.6	720.1	732.8	742.6	745.7	760.0	768.2
12.5°	647.3	663.1	679.3	696.1	712.3	729.5	743.5	753.3	764.5	777.3	792.4
15°	638.1	656.2	677.4	698.9	722.1	743.0	758.0	775.0	787.3	801.4	814.6
17.5°	624.8	648.2	675.0	700.0	726.8	749.2	769.9	786.2	794.8	802.9	804.8
20°	614.2	639.4	671.0	700.5	727.3	753.2	773.7	787.3	789.6	789.8	777.8
22.5°	602.8	631.3	664.3	694.5	726.6	755.4	771.3	777.1	768.1	752.7	729.4
25°	581.7	614.7	653.1	687.6	722.6	749.8	755.3	745.1	713.5	680.3	638.3
27.5°	558.9	596.0	637.1	675.5	712.8	729.7	717.9	681.0	624.2	574.7	514.8
30°	542.2	583.8	624.2	667.1	701.7	708.9	681.9	627.6	561.3	486.8	427.0
32.5°	523.1	566.7	611.1	655.5	684.4	677.3	632.7	565.8	488.1	414.8	358.4
35°	495.9	540.8	588.8	633.3	651.7	621.0	554.2	467.2	387.7	319.4	280.5
37.5°	464.4	513.4	563.2	604.1	602.8	551.7	460.7	370.9	304.1	263.6	236.0
40°	442.0	491.6	545.4	579.9	565.2	498.6	400.0	315.3	266.4	234.2	214.0
42.5°	420.6	470.3	523.8	551.2	525.5	443.7	345.5	279.1	238.8	213.7	197.3
45°	384.1	436.6	486.1	501.3	455.4	365.3	279.4	231.2	204.4	185.8	174.5
47.5°	348.4	400.1	445.3	445.5	383.5	296.2	235.7	200.1	177.2	162.8	154.6
50°	326.6	375.7	413.6	407.7	337.3	263.5	210.8	180.1	161.1	149.9	141.3
52.5°	302.1	349.7	382.6	365.8	298.2	231.9	188.4	162.7	146.9	137.2	129.5
55°	266.4	308.7	331.9	306.4	243.3	192.9	159.2	139.0	127.2	119.0	112.4
57.5°	231.4	266.3	280.8	251.2	200.4	159.9	134.7	119.5	107.8	101.9	98.5
60°	209.4	239.2	249.4	216.7	174.2	139.9	119.3	105.2	96.5	92.7	89.3
62.5°	187.8	212.1	216.3	186.4	151.9	122.5	104.7	92.8	87.1	83.4	80.2
65°	155.8	173.3	171.3	147.2	120.2	97.2	84.3	77.0	72.7	67.5	61.8
67.5°	128.3	139.0	132.5	114.5	91.7	75.6	67.1	61.6	56.2	51.3	50.0
70°	110.8	117.0	110.2	93.6	75.2	63.4	56.6	50.0	46.8	45.7	43.6
72.5°	94.1	96.3	88.9	74.7	61.2	52.5	45.8	42.2	40.4	39.5	38.2
75°	70.6	69.1	62.7	51.6	42.5	36.6	34.5	33.2	32.0	31.1	30.4
77.5°	49.6	47.3	41.6	34.3	29.6	26.8	25.5	24.8	24.3	23.8	23.1
80°	37.3	35.7	30.0	24.5	22.5	21.1	20.4	19.5	19.5	19.1	18.4
82.5°	27.3	25.5	20.5	18.0	16.9	16.0	15.5	15.0	14.8	14.9	14.4
85°	14.3	11.6	10.2	9.8	9.1	8.6	8.9	8.4	8.4	8.4	8.2
87.5°	5.2	5.0	5.3	5.5	6.3	7.3	8.5	9.7	10.1	9.7	9.7
90°	4.0	8.0	10.0	12.0	15.0	20.0	26.9	32.9	33.9	32.9	31.9
92.5°	17.6	24.8	29.1	35.9	45.3	67.9	99.6	127.9	129.7	109.6	87.0
95°	38.9	48.9	57.9	73.9	97.8	143.7	230.5	346.3	391.2	342.3	261.5
97.5°	62.3	72.9	86.4	104.8	131.9	189.6	310.6	503.0	667.9	700.6	610.2
100°	79.8	88.8	104.8	124.8	152.7	205.6	327.4	542.9	788.4	932.2	911.2
102.5°	97.4	106.4	122.4	143.1	171.1	220.0	328.2	527.8	792.4	1018.4	1108.4
105°	125.8	132.7	147.7	169.7	197.6	244.5	333.3	498.0	739.5	1005.0	1212.6
107.5°	153.7	160.5	174.3	196.0	224.2	269.7	347.1	483.2	682.9	917.4	1137.6
110°	173.7	179.6	192.6	213.6	242.5	286.4	358.3	480.1	655.7	862.3	1072.9



TEST NUMBER: P331635

CATALOG NUMBER: S122RDIP-S290D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	191.2	198.0	210.2	230.3	260.1	302.4	370.3	480.8	638.1	824.0	1013.8
115°	219.6	225.6	237.5	257.5	284.4	327.4	388.2	485.0	618.8	776.5	941.1
117.5°	246.9	252.9	263.5	282.6	310.6	350.3	407.4	492.2	609.4	746.5	886.4
120°	264.5	270.5	279.4	299.4	327.4	366.3	420.2	497.0	603.8	730.6	859.3
122.5°	280.4	286.4	296.2	316.2	344.9	381.4	431.3	502.6	600.6	717.0	837.7
125°	302.4	308.4	320.4	340.3	368.3	404.2	449.1	511.0	594.8	697.6	806.4
127.5°	321.0	329.3	342.5	361.7	390.4	425.4	465.7	519.6	591.4	679.7	775.5
130°	331.3	341.3	355.3	375.3	403.2	438.1	476.1	526.0	589.8	667.7	755.5
132.5°	341.7	352.5	367.3	388.0	416.0	449.3	486.4	532.3	589.0	658.1	736.3
135°	355.3	367.3	382.2	405.2	433.1	465.1	500.0	539.9	587.8	644.7	709.6
137.5°	369.7	381.6	397.6	420.4	446.3	477.9	510.4	546.7	587.6	635.3	688.2
140°	379.3	391.2	407.2	429.2	455.1	485.0	516.0	549.9	586.8	629.8	674.7
142.5°	388.8	400.0	416.0	437.1	461.5	490.6	520.8	552.3	586.8	624.2	663.5
145°	405.2	415.2	430.2	450.1	472.1	499.0	527.0	554.9	584.8	616.8	647.7
147.5°	421.0	430.5	444.3	460.9	480.5	505.8	530.4	555.7	581.3	609.2	635.5
150°	432.1	440.1	453.1	468.1	486.0	509.0	531.9	554.9	578.9	602.8	626.8
152.5°	441.7	449.7	461.1	475.3	491.6	512.2	532.7	553.3	574.9	597.2	618.0
155°	457.1	463.1	474.1	485.0	500.0	517.0	533.9	550.9	567.9	586.8	605.8
157.5°	470.3	475.1	484.6	493.4	506.0	520.4	533.9	546.3	560.7	577.1	591.6
160°	479.1	483.0	491.0	499.0	510.0	522.0	533.9	543.9	555.9	569.9	582.8
162.5°	486.2	490.2	496.6	503.8	512.4	522.8	533.1	541.5	551.9	563.5	574.1
165°	496.0	498.0	504.0	509.0	515.0	524.0	531.0	536.9	543.9	552.9	560.9
167.5°	504.2	506.0	509.8	513.4	517.2	523.8	529.6	532.3	536.9	542.5	548.3
170°	509.0	510.0	513.0	515.0	518.0	523.0	528.0	530.0	532.9	536.9	541.9
172.5°	513.0	512.4	515.4	516.6	518.8	522.2	525.6	526.8	528.2	531.4	534.7
175°	517.0	516.0	518.0	518.0	519.0	521.0	523.0	522.0	523.0	524.0	527.0
177.5°	518.2	517.4	519.0	519.0	519.0	519.8	521.4	519.8	519.0	519.8	521.4
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	676.6	679.0	680.1	680.1	681.4	680.8	680.3
5°	715.5	719.8	720.8	724.8	727.8	726.9	727.3
7.5°	754.2	761.1	768.0	771.1	771.6	773.4	774.1
10°	778.0	783.7	794.3	792.8	800.7	805.3	797.8
12.5°	800.9	808.6	816.0	818.0	822.5	824.0	821.0
15°	821.6	825.7	826.1	825.0	826.4	825.2	820.9
17.5°	802.3	795.6	782.2	775.8	770.8	763.3	760.3
20°	770.3	750.7	728.0	718.9	708.3	687.4	692.4
22.5°	701.2	679.0	656.2	629.7	617.0	597.2	596.0
25°	593.8	555.4	513.1	483.6	466.3	446.6	437.9
27.5°	461.7	413.3	378.7	361.2	345.2	329.6	328.9
30°	374.8	338.5	311.7	296.7	286.9	280.3	281.7
32.5°	315.9	291.0	272.9	260.5	253.3	248.3	248.2
35°	258.3	241.2	229.6	224.4	219.2	215.6	215.8
37.5°	221.0	210.8	204.3	198.6	195.3	193.5	192.5
40°	201.9	193.5	188.5	185.1	182.4	179.9	179.4
42.5°	186.9	179.9	174.9	172.2	169.7	167.9	167.5
45°	165.8	160.1	155.6	152.6	151.5	149.9	149.9
47.5°	147.5	141.9	138.4	136.5	134.6	133.5	133.5
50°	135.2	130.8	127.7	126.5	124.9	124.3	124.0
52.5°	124.1	120.8	118.6	117.8	117.1	116.3	116.4
55°	109.0	107.2	106.3	105.6	104.5	103.1	104.0
57.5°	96.4	94.8	92.4	90.2	89.2	88.2	88.6
60°	87.5	84.3	81.1	78.6	77.9	75.9	75.9
62.5°	76.2	71.7	67.8	66.4	65.7	64.8	64.6
65°	58.6	56.8	55.9	55.0	54.5	54.5	54.1
67.5°	48.6	47.8	46.8	46.6	46.2	46.0	45.9
70°	42.9	42.0	41.6	41.3	40.9	41.1	40.4
72.5°	37.5	36.8	36.7	36.1	35.8	35.8	35.3
75°	29.5	29.5	29.3	29.1	28.6	28.4	28.6
77.5°	22.7	22.8	22.4	22.3	22.3	22.3	22.1
80°	18.2	18.4	18.2	17.9	17.7	17.9	17.7
82.5°	14.4	14.0	14.0	13.9	13.9	13.8	13.7
85°	8.2	8.4	8.2	8.0	8.0	8.0	8.2
87.5°	9.1	9.5	9.7	9.7	9.7	9.7	9.5
90°	29.9	31.9	32.9	32.9	32.9	32.9	32.9
92.5°	74.7	66.3	60.1	59.3	56.1	56.9	55.3
95°	200.6	158.7	136.7	123.8	115.8	112.8	113.8
97.5°	499.2	391.2	319.2	271.5	246.9	232.3	224.0
100°	787.4	650.7	530.0	447.1	404.2	375.3	357.3
102.5°	1080.5	980.5	852.5	762.5	689.2	653.1	628.8
105°	1325.4	1338.4	1305.4	1243.5	1181.7	1138.7	1124.8
107.5°	1307.4	1411.2	1459.5	1467.3	1463.9	1455.3	1436.8
110°	1251.5	1379.3	1461.1	1504.0	1523.0	1532.0	1531.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1185.3	1321.8	1415.6	1475.3	1507.0	1524.0	1529.4
115°	1094.8	1225.6	1328.4	1399.2	1445.1	1471.1	1480.1
117.5°	1021.4	1139.9	1236.4	1308.6	1357.1	1384.5	1392.0
120°	983.1	1088.8	1179.7	1249.5	1296.4	1325.4	1335.4
122.5°	951.1	1051.3	1133.4	1196.0	1242.1	1267.9	1276.3
125°	909.2	997.0	1071.9	1129.8	1167.7	1192.6	1200.6
127.5°	868.5	951.3	1020.4	1070.9	1106.4	1128.0	1134.4
130°	841.3	920.2	986.1	1035.0	1068.9	1088.8	1096.8
132.5°	815.8	888.2	950.1	998.2	1032.2	1050.5	1057.7
135°	775.5	841.3	897.2	940.1	973.1	991.0	995.0
137.5°	743.3	795.6	844.3	883.5	911.8	927.6	933.6
140°	722.6	768.5	812.4	844.3	870.3	885.3	891.2
142.5°	704.2	743.7	780.5	810.8	834.4	847.7	848.9
145°	680.7	711.6	740.5	764.5	781.5	791.4	794.4
147.5°	661.5	685.6	706.8	726.6	740.1	746.9	748.7
150°	648.7	669.7	687.6	702.6	714.6	720.6	721.6
152.5°	638.3	656.1	671.7	683.4	693.8	698.2	698.4
155°	621.8	636.7	647.7	658.7	665.7	669.7	667.7
157.5°	605.0	617.6	626.2	633.9	639.7	641.5	641.5
160°	593.8	604.8	611.8	618.8	623.8	624.8	624.8
162.5°	583.4	592.8	598.2	605.2	608.6	609.6	608.8
165°	567.9	574.9	578.9	582.8	586.8	586.8	585.8
167.5°	553.7	558.5	562.1	563.9	566.1	565.9	564.7
170°	544.9	548.9	550.9	551.9	554.9	553.9	551.9
172.5°	536.9	540.1	541.3	542.3	543.7	542.7	541.5
175°	528.0	529.0	530.0	530.0	531.0	530.0	528.0
177.5°	521.4	522.2	522.2	522.2	522.2	521.4	519.8
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0

(END OF REPORT)