

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: P331629

Luminaire Tested: **SA2XXRDIP-C290D725U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331629
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

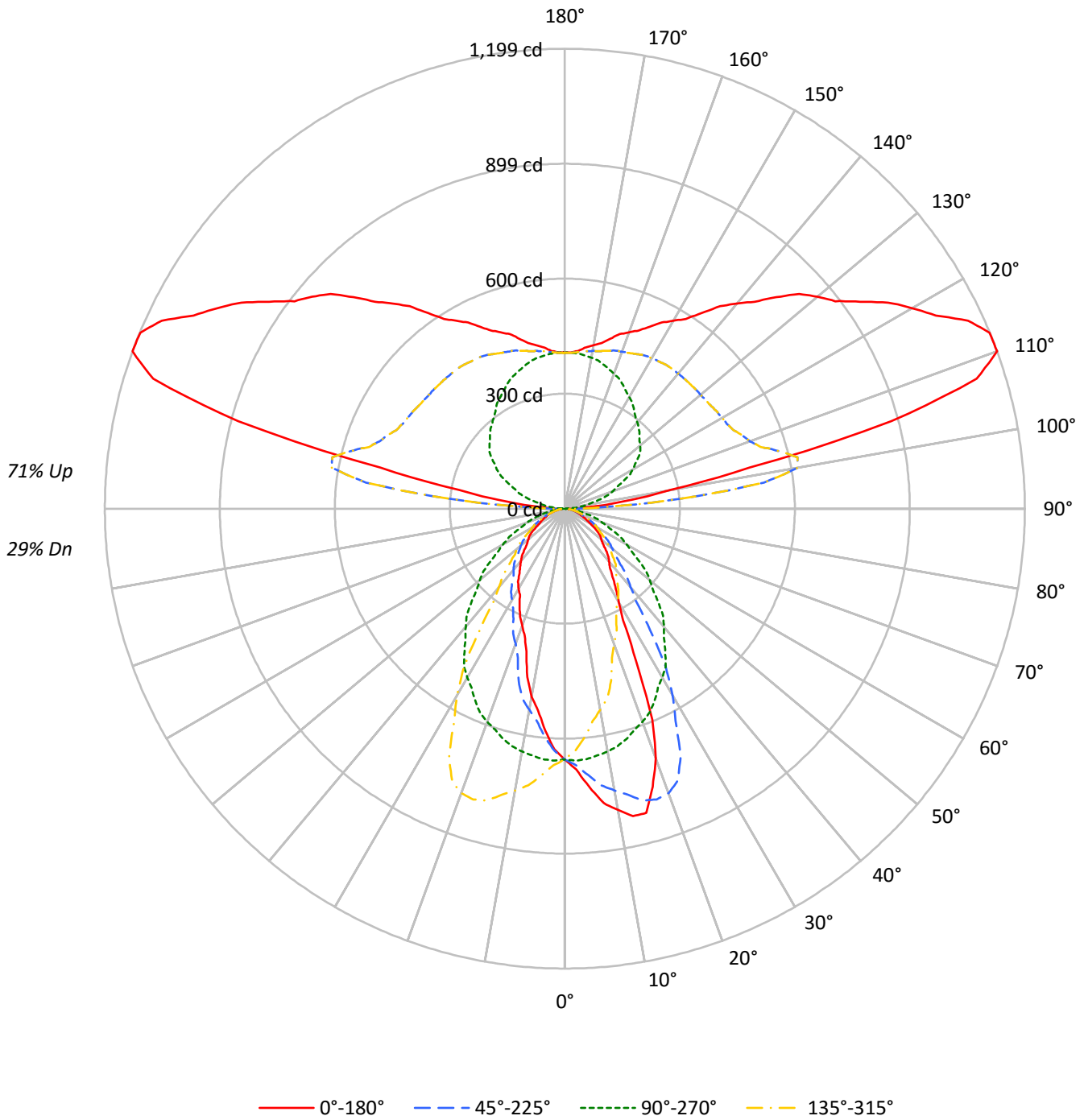
Lumens per Lamp: N/A
Luminaire Lumens: 3962.1 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	29				
1	93	89	86	83	84	80	77	75	63	61	59	47	46	45	33	32	32	25				
2	85	79	73	68	76	71	66	62	56	53	50	42	40	38	29	28	27	22				
3	78	69	63	57	70	63	57	52	50	46	42	38	35	33	27	25	24	19				
4	72	62	54	49	64	56	49	45	44	40	36	34	31	29	24	22	21	17				
5	66	55	48	42	59	50	43	38	40	35	32	31	27	25	22	20	19	15				
6	61	49	42	36	54	45	38	34	36	31	28	28	25	22	20	18	17	13				
7	56	45	37	32	50	41	34	30	33	28	25	25	22	20	18	16	15	12				
8	52	41	33	28	47	37	31	26	30	25	22	23	20	18	17	15	14	11				
9	49	37	30	25	44	34	28	23	27	23	20	21	18	16	16	14	12	10				
10	45	34	27	23	41	31	25	21	25	21	18	20	17	15	15	13	11	9				

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	1.6
10°-20°	172.7	4.4
20°-30°	222.5	5.6
30°-40°	211.5	5.3
40°-50°	181.1	4.6
50°-60°	137.9	3.5
60°-70°	87.2	2.2
70°-80°	43.5	1.1
80°-90°	15.0	0.4
90°-100°	162.5	4.1
100°-110°	551.5	13.9
110°-120°	585.9	14.8
120°-130°	482.3	12.2
130°-140°	387.3	9.8
140°-150°	292.7	7.4
150°-160°	205.7	5.2
160°-170°	121.1	3.1
170°-180°	39.4	1.0
0°-30°	457.2	11.5
0°-40°	668.6	16.9
0°-60°	987.7	24.9
0°-90°	1133.5	28.6
90°-120°	1300.0	32.8
90°-150°	2462.4	62.1
90°-180°	2829.0	71.4
0°-180°	3962.1	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	9
90°	26	1	26	1	26	14
95°	89	27	89	27	89	116
105°	881	95	881	95	881	852
115°	1159	168	1159	168	1159	1135
125°	940	234	940	234	940	850
135°	779	275	779	275	779	605
145°	622	314	622	314	622	395
155°	523	357	523	357	523	244
165°	459	389	459	389	459	131
175°	414	406	414	406	414	40
180°	406	406	406	406	406	



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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°	8.1	8.2	8.2	8.2	8.2	8.1	7.8	8.3	8.2	8.6	8.2
90°	25.8	25.8	25.8	25.8	25.8	25.0	23.5	25.0	25.8	26.6	25.8
92.5°	43.3	44.6	43.9	46.4	47.1	51.9	58.5	68.2	85.8	101.6	100.2
95°	89.1	88.3	90.7	96.9	107.1	124.3	157.1	204.8	268.1	306.4	271.3
97.5°	175.4	182.0	193.4	212.6	250.0	306.4	391.0	477.9	548.8	523.1	394.0
100°	279.8	293.9	316.6	350.2	415.1	509.7	616.8	713.7	730.1	617.5	425.2
102.5°	492.5	511.5	539.8	597.2	667.7	767.9	846.3	868.2	797.6	620.7	413.4
105°	881.0	891.9	925.5	974.0	1022.5	1048.3	1038.1	949.8	787.2	579.2	390.1
107.5°	1125.3	1139.9	1146.6	1149.3	1143.2	1105.3	1024.0	891.0	718.5	534.8	378.5
110°	1199.1	1199.9	1192.9	1178.0	1144.4	1080.3	980.3	840.3	675.4	513.6	376.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1197.9	1193.7	1180.4	1155.5	1108.8	1035.3	928.3	794.1	645.4	499.8	376.6
115°	1159.3	1152.2	1131.9	1095.9	1040.4	959.9	857.5	737.1	608.2	484.7	379.9
117.5°	1090.3	1084.4	1063.0	1025.0	968.4	892.9	800.0	694.3	584.7	477.3	385.5
120°	1045.9	1038.1	1015.4	978.7	924.0	852.8	770.0	673.0	572.2	472.9	389.3
122.5°	999.6	993.1	972.9	936.8	887.7	823.4	745.0	656.2	561.6	470.4	393.7
125°	940.4	934.1	914.6	884.9	839.5	780.9	712.1	631.6	546.4	465.9	400.2
127.5°	888.5	883.5	866.6	838.8	799.2	745.1	680.2	607.4	532.3	463.2	407.0
130°	859.1	852.8	837.2	810.6	772.3	720.7	659.0	591.7	523.0	462.0	412.0
132.5°	828.4	822.8	808.4	781.9	744.2	695.7	639.0	576.7	515.5	461.4	417.0
135°	779.4	776.2	762.2	736.4	702.7	659.0	607.4	555.8	505.0	460.4	422.9
137.5°	731.2	726.5	714.2	692.0	661.3	623.2	582.2	539.1	497.6	460.3	428.2
140°	698.1	693.4	681.6	661.3	636.3	601.9	566.0	528.4	493.3	459.6	430.7
142.5°	664.9	664.0	653.5	635.1	611.3	582.5	551.6	519.7	488.9	459.6	432.6
145°	622.2	619.9	612.1	598.8	580.0	557.4	533.1	507.3	483.1	458.1	434.6
147.5°	586.4	585.0	579.7	569.1	553.6	537.0	518.1	497.8	477.2	455.3	435.3
150°	565.2	564.4	559.7	550.3	538.6	524.5	508.1	490.9	472.1	453.4	434.6
152.5°	547.0	546.9	543.4	535.3	526.1	513.9	500.0	484.0	467.8	450.3	433.4
155°	523.0	524.5	521.4	515.9	507.3	498.7	487.0	474.5	459.6	444.8	431.5
157.5°	502.5	502.5	501.1	496.5	490.4	483.7	473.9	463.4	452.0	439.2	427.9
160°	489.3	489.3	488.6	484.7	479.2	473.7	465.1	456.5	446.4	435.4	426.0
162.5°	476.8	477.5	476.7	474.0	468.6	464.3	457.0	449.6	441.3	432.3	424.2
165°	458.9	459.6	459.6	456.5	453.4	450.3	444.8	439.3	433.1	426.0	420.6
167.5°	442.3	443.2	443.4	441.7	440.3	437.4	433.7	429.5	424.9	420.6	417.0
170°	432.3	433.8	434.6	432.3	431.5	429.9	426.8	424.5	420.6	417.4	415.1
172.5°	424.2	425.1	425.9	424.8	424.0	423.1	420.6	418.8	416.2	413.7	412.6
175°	413.5	415.1	415.9	415.1	415.1	414.3	413.5	412.7	410.4	409.6	408.8
177.5°	407.1	408.4	409.0	409.0	409.0	409.0	408.4	408.4	407.1	406.5	407.1
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



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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°	7.3	6.4	5.6	5.0	4.8	4.7	5.0	5.4	5.2	5.2	5.2
90°	21.1	15.6	11.7	9.4	7.8	6.3	3.1	0.8	3.1	6.3	7.8
92.5°	78.0	53.2	35.5	28.1	22.8	19.4	13.8	9.5	13.8	19.4	22.8
95°	180.6	112.6	76.6	57.8	45.3	38.3	30.5	27.4	30.5	38.3	45.3
97.5°	243.3	148.5	103.3	82.1	67.7	57.1	48.8	44.6	48.8	57.1	67.7
100°	256.4	161.0	119.6	97.7	82.1	69.6	62.5	60.2	62.5	69.6	82.1
102.5°	257.0	172.3	134.0	112.1	95.8	83.3	76.3	74.6	76.3	83.3	95.8
105°	261.1	191.5	154.8	132.9	115.7	104.0	98.5	95.4	98.5	104.0	115.7
107.5°	271.9	211.2	175.6	153.5	136.5	125.7	120.4	117.9	120.4	125.7	136.5
110°	280.6	224.3	190.0	167.3	150.9	140.7	136.0	132.9	136.0	140.7	150.9



TEST NUMBER: P331629

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	290.0	236.9	203.7	180.4	164.6	155.1	149.8	146.6	149.8	155.1	164.6
115°	304.1	256.4	222.8	201.7	186.0	176.7	172.0	168.1	172.0	176.7	186.0
117.5°	319.1	274.4	243.3	221.4	206.4	198.1	193.4	190.3	193.4	198.1	206.4
120°	329.1	286.9	256.4	234.5	218.9	211.8	207.2	204.0	207.2	211.8	218.9
122.5°	337.9	298.8	270.2	247.6	232.0	224.3	219.7	217.2	219.7	224.3	232.0
125°	351.8	316.6	288.4	266.6	250.9	241.5	236.9	234.5	236.9	241.5	250.9
127.5°	364.7	333.2	305.8	283.3	268.3	258.0	251.4	248.3	251.4	258.0	268.3
130°	372.9	343.2	315.8	293.9	278.3	267.3	259.5	256.4	259.5	267.3	278.3
132.5°	381.0	351.9	325.8	303.9	287.7	276.1	267.7	263.9	267.7	276.1	287.7
135°	391.6	364.3	339.3	317.4	299.4	287.7	278.3	275.2	278.3	287.7	299.4
137.5°	399.8	374.3	349.6	329.3	311.4	298.9	289.5	285.8	289.5	298.9	311.4
140°	404.1	379.9	356.5	336.1	318.9	306.4	297.0	293.9	297.0	306.4	318.9
142.5°	407.9	384.3	361.5	342.4	325.8	313.3	304.6	302.0	304.6	313.3	325.8
145°	412.7	390.9	369.7	352.5	336.9	325.2	317.4	314.2	317.4	325.2	336.9
147.5°	415.4	396.2	376.3	361.0	348.0	337.2	329.7	327.4	329.7	337.2	348.0
150°	416.6	398.7	380.7	366.6	354.9	344.7	338.5	336.1	338.5	344.7	354.9
152.5°	417.3	401.2	385.1	372.2	361.1	352.2	346.0	344.9	346.0	352.2	361.1
155°	418.2	404.9	391.6	379.9	371.3	362.7	358.0	357.2	358.0	362.7	371.3
157.5°	418.2	407.6	396.3	386.5	379.6	372.1	368.3	367.6	368.3	372.1	379.6
160°	418.2	408.8	399.4	390.9	384.6	378.3	375.2	374.4	375.2	378.3	384.6
162.5°	417.6	409.5	401.3	394.6	389.0	384.0	380.8	381.3	380.8	384.0	389.0
165°	415.9	410.4	403.4	398.7	394.8	390.1	388.5	389.3	388.5	390.1	394.8
167.5°	414.8	410.2	405.1	402.1	399.3	396.3	394.9	395.9	394.9	396.3	399.3
170°	413.5	409.6	405.7	403.4	401.8	399.4	398.7	400.2	398.7	399.4	401.8
172.5°	411.6	409.0	406.3	404.6	403.7	401.3	401.8	402.7	401.8	401.3	403.7
175°	409.6	408.0	406.5	405.7	405.7	404.1	404.9	405.7	404.9	404.1	405.7
177.5°	408.4	407.1	406.5	406.5	406.5	405.2	405.9	407.1	405.9	405.2	406.5
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331629

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-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°	5.3	5.6	6.0	7.1	8.1	8.0	7.9	7.5	7.2	7.5	7.5
90°	9.4	11.7	15.6	21.1	25.8	26.6	25.8	25.0	23.5	25.0	25.8
92.5°	28.1	35.5	53.2	78.0	100.2	101.6	85.8	68.2	58.5	51.9	47.1
95°	57.8	76.6	112.6	180.6	271.3	306.4	268.1	204.8	157.1	124.3	107.1
97.5°	82.1	103.3	148.5	243.3	394.0	523.1	548.8	477.9	391.0	306.4	250.0
100°	97.7	119.6	161.0	256.4	425.2	617.5	730.1	713.7	616.8	509.7	415.1
102.5°	112.1	134.0	172.3	257.0	413.4	620.7	797.6	868.2	846.3	767.9	667.7
105°	132.9	154.8	191.5	261.1	390.1	579.2	787.2	949.8	1038.1	1048.3	1022.5
107.5°	153.5	175.6	211.2	271.9	378.5	534.8	718.5	891.0	1024.0	1105.3	1143.2
110°	167.3	190.0	224.3	280.6	376.0	513.6	675.4	840.3	980.3	1080.3	1144.4



TEST NUMBER: P331629

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	180.4	203.7	236.9	290.0	376.6	499.8	645.4	794.1	928.3	1035.3	1108.8
115°	201.7	222.8	256.4	304.1	379.9	484.7	608.2	737.1	857.5	959.9	1040.4
117.5°	221.4	243.3	274.4	319.1	385.5	477.3	584.7	694.3	800.0	892.9	968.4
120°	234.5	256.4	286.9	329.1	389.3	472.9	572.2	673.0	770.0	852.8	924.0
122.5°	247.6	270.2	298.8	337.9	393.7	470.4	561.6	656.2	745.0	823.4	887.7
125°	266.6	288.4	316.6	351.8	400.2	465.9	546.4	631.6	712.1	780.9	839.5
127.5°	283.3	305.8	333.2	364.7	407.0	463.2	532.3	607.4	680.2	745.1	799.2
130°	293.9	315.8	343.2	372.9	412.0	462.0	523.0	591.7	659.0	720.7	772.3
132.5°	303.9	325.8	351.9	381.0	417.0	461.4	515.5	576.7	639.0	695.7	744.2
135°	317.4	339.3	364.3	391.6	422.9	460.4	505.0	555.8	607.4	659.0	702.7
137.5°	329.3	349.6	374.3	399.8	428.2	460.3	497.6	539.1	582.2	623.2	661.3
140°	336.1	356.5	379.9	404.1	430.7	459.6	493.3	528.4	566.0	601.9	636.3
142.5°	342.4	361.5	384.3	407.9	432.6	459.6	488.9	519.7	551.6	582.5	611.3
145°	352.5	369.7	390.9	412.7	434.6	458.1	483.1	507.3	533.1	557.4	580.0
147.5°	361.0	376.3	396.2	415.4	435.3	455.3	477.2	497.8	518.1	537.0	553.6
150°	366.6	380.7	398.7	416.6	434.6	453.4	472.1	490.9	508.1	524.5	538.6
152.5°	372.2	385.1	401.2	417.3	433.4	450.3	467.8	484.0	500.0	513.9	526.1
155°	379.9	391.6	404.9	418.2	431.5	444.8	459.6	474.5	487.0	498.7	507.3
157.5°	386.5	396.3	407.6	418.2	427.9	439.2	452.0	463.4	473.9	483.7	490.4
160°	390.9	399.4	408.8	418.2	426.0	435.4	446.4	456.5	465.1	473.7	479.2
162.5°	394.6	401.3	409.5	417.6	424.2	432.3	441.3	449.6	457.0	464.3	468.6
165°	398.7	403.4	410.4	415.9	420.6	426.0	433.1	439.3	444.8	450.3	453.4
167.5°	402.1	405.1	410.2	414.8	417.0	420.6	424.9	429.5	433.7	437.4	440.3
170°	403.4	405.7	409.6	413.5	415.1	417.4	420.6	424.5	426.8	429.9	431.5
172.5°	404.6	406.3	409.0	411.6	412.6	413.7	416.2	418.8	420.6	423.1	424.0
175°	405.7	406.5	408.0	409.6	408.8	409.6	410.4	412.7	413.5	414.3	415.1
177.5°	406.5	406.5	407.1	408.4	407.1	406.5	407.1	408.4	408.4	409.0	409.0
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331629

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-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°	7.5	7.3	7.5	7.3	7.5	7.3	7.5	7.5	7.5	7.2	7.5
90°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.0	23.5	25.0
92.5°	46.4	43.9	44.6	43.3	44.6	43.9	46.4	47.1	51.9	58.5	68.2
95°	96.9	90.7	88.3	89.1	88.3	90.7	96.9	107.1	124.3	157.1	204.8
97.5°	212.6	193.4	182.0	175.4	182.0	193.4	212.6	250.0	306.4	391.0	477.9
100°	350.2	316.6	293.9	279.8	293.9	316.6	350.2	415.1	509.7	616.8	713.7
102.5°	597.2	539.8	511.5	492.5	511.5	539.8	597.2	667.7	767.9	846.3	868.2
105°	974.0	925.5	891.9	881.0	891.9	925.5	974.0	1022.5	1048.3	1038.1	949.8
107.5°	1149.3	1146.6	1139.9	1125.3	1139.9	1146.6	1149.3	1143.2	1105.3	1024.0	891.0
110°	1178.0	1192.9	1199.9	1199.1	1199.9	1192.9	1178.0	1144.4	1080.3	980.3	840.3



TEST NUMBER: P331629

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1155.5	1180.4	1193.7	1197.9	1193.7	1180.4	1155.5	1108.8	1035.3	928.3	794.1
115°	1095.9	1131.9	1152.2	1159.3	1152.2	1131.9	1095.9	1040.4	959.9	857.5	737.1
117.5°	1025.0	1063.0	1084.4	1090.3	1084.4	1063.0	1025.0	968.4	892.9	800.0	694.3
120°	978.7	1015.4	1038.1	1045.9	1038.1	1015.4	978.7	924.0	852.8	770.0	673.0
122.5°	936.8	972.9	993.1	999.6	993.1	972.9	936.8	887.7	823.4	745.0	656.2
125°	884.9	914.6	934.1	940.4	934.1	914.6	884.9	839.5	780.9	712.1	631.6
127.5°	838.8	866.6	883.5	888.5	883.5	866.6	838.8	799.2	745.1	680.2	607.4
130°	810.6	837.2	852.8	859.1	852.8	837.2	810.6	772.3	720.7	659.0	591.7
132.5°	781.9	808.4	822.8	828.4	822.8	808.4	781.9	744.2	695.7	639.0	576.7
135°	736.4	762.2	776.2	779.4	776.2	762.2	736.4	702.7	659.0	607.4	555.8
137.5°	692.0	714.2	726.5	731.2	726.5	714.2	692.0	661.3	623.2	582.2	539.1
140°	661.3	681.6	693.4	698.1	693.4	681.6	661.3	636.3	601.9	566.0	528.4
142.5°	635.1	653.5	664.0	664.9	664.0	653.5	635.1	611.3	582.5	551.6	519.7
145°	598.8	612.1	619.9	622.2	619.9	612.1	598.8	580.0	557.4	533.1	507.3
147.5°	569.1	579.7	585.0	586.4	585.0	579.7	569.1	553.6	537.0	518.1	497.8
150°	550.3	559.7	564.4	565.2	564.4	559.7	550.3	538.6	524.5	508.1	490.9
152.5°	535.3	543.4	546.9	547.0	546.9	543.4	535.3	526.1	513.9	500.0	484.0
155°	515.9	521.4	524.5	523.0	524.5	521.4	515.9	507.3	498.7	487.0	474.5
157.5°	496.5	501.1	502.5	502.5	502.5	501.1	496.5	490.4	483.7	473.9	463.4
160°	484.7	488.6	489.3	489.3	489.3	488.6	484.7	479.2	473.7	465.1	456.5
162.5°	474.0	476.7	477.5	476.8	477.5	476.7	474.0	468.6	464.3	457.0	449.6
165°	456.5	459.6	459.6	458.9	459.6	459.6	456.5	453.4	450.3	444.8	439.3
167.5°	441.7	443.4	443.2	442.3	443.2	443.4	441.7	440.3	437.4	433.7	429.5
170°	432.3	434.6	433.8	432.3	433.8	434.6	432.3	431.5	429.9	426.8	424.5
172.5°	424.8	425.9	425.1	424.2	425.1	425.9	424.8	424.0	423.1	420.6	418.8
175°	415.1	415.9	415.1	413.5	415.1	415.9	415.1	415.1	414.3	413.5	412.7
177.5°	409.0	409.0	408.4	407.1	408.4	409.0	409.0	409.0	409.0	408.4	408.4
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331629

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-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°	7.9	8.0	8.1	7.1	6.0	5.6	5.3	5.2	5.2	5.2	5.4
90°	25.8	26.6	25.8	21.1	15.6	11.7	9.4	7.8	6.3	3.1	0.8
92.5°	85.8	101.6	100.2	78.0	53.2	35.5	28.1	22.8	19.4	13.8	9.5
95°	268.1	306.4	271.3	180.6	112.6	76.6	57.8	45.3	38.3	30.5	27.4
97.5°	548.8	523.1	394.0	243.3	148.5	103.3	82.1	67.7	57.1	48.8	44.6
100°	730.1	617.5	425.2	256.4	161.0	119.6	97.7	82.1	69.6	62.5	60.2
102.5°	797.6	620.7	413.4	257.0	172.3	134.0	112.1	95.8	83.3	76.3	74.6
105°	787.2	579.2	390.1	261.1	191.5	154.8	132.9	115.7	104.0	98.5	95.4
107.5°	718.5	534.8	378.5	271.9	211.2	175.6	153.5	136.5	125.7	120.4	117.9
110°	675.4	513.6	376.0	280.6	224.3	190.0	167.3	150.9	140.7	136.0	132.9



TEST NUMBER: P331629

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	645.4	499.8	376.6	290.0	236.9	203.7	180.4	164.6	155.1	149.8	146.6
115°	608.2	484.7	379.9	304.1	256.4	222.8	201.7	186.0	176.7	172.0	168.1
117.5°	584.7	477.3	385.5	319.1	274.4	243.3	221.4	206.4	198.1	193.4	190.3
120°	572.2	472.9	389.3	329.1	286.9	256.4	234.5	218.9	211.8	207.2	204.0
122.5°	561.6	470.4	393.7	337.9	298.8	270.2	247.6	232.0	224.3	219.7	217.2
125°	546.4	465.9	400.2	351.8	316.6	288.4	266.6	250.9	241.5	236.9	234.5
127.5°	532.3	463.2	407.0	364.7	333.2	305.8	283.3	268.3	258.0	251.4	248.3
130°	523.0	462.0	412.0	372.9	343.2	315.8	293.9	278.3	267.3	259.5	256.4
132.5°	515.5	461.4	417.0	381.0	351.9	325.8	303.9	287.7	276.1	267.7	263.9
135°	505.0	460.4	422.9	391.6	364.3	339.3	317.4	299.4	287.7	278.3	275.2
137.5°	497.6	460.3	428.2	399.8	374.3	349.6	329.3	311.4	298.9	289.5	285.8
140°	493.3	459.6	430.7	404.1	379.9	356.5	336.1	318.9	306.4	297.0	293.9
142.5°	488.9	459.6	432.6	407.9	384.3	361.5	342.4	325.8	313.3	304.6	302.0
145°	483.1	458.1	434.6	412.7	390.9	369.7	352.5	336.9	325.2	317.4	314.2
147.5°	477.2	455.3	435.3	415.4	396.2	376.3	361.0	348.0	337.2	329.7	327.4
150°	472.1	453.4	434.6	416.6	398.7	380.7	366.6	354.9	344.7	338.5	336.1
152.5°	467.8	450.3	433.4	417.3	401.2	385.1	372.2	361.1	352.2	346.0	344.9
155°	459.6	444.8	431.5	418.2	404.9	391.6	379.9	371.3	362.7	358.0	357.2
157.5°	452.0	439.2	427.9	418.2	407.6	396.3	386.5	379.6	372.1	368.3	367.6
160°	446.4	435.4	426.0	418.2	408.8	399.4	390.9	384.6	378.3	375.2	374.4
162.5°	441.3	432.3	424.2	417.6	409.5	401.3	394.6	389.0	384.0	380.8	381.3
165°	433.1	426.0	420.6	415.9	410.4	403.4	398.7	394.8	390.1	388.5	389.3
167.5°	424.9	420.6	417.0	414.8	410.2	405.1	402.1	399.3	396.3	394.9	395.9
170°	420.6	417.4	415.1	413.5	409.6	405.7	403.4	401.8	399.4	398.7	400.2
172.5°	416.2	413.7	412.6	411.6	409.0	406.3	404.6	403.7	401.3	401.8	402.7
175°	410.4	409.6	408.8	409.6	408.0	406.5	405.7	405.7	404.1	404.9	405.7
177.5°	407.1	406.5	407.1	408.4	407.1	406.5	406.5	406.5	405.2	405.9	407.1
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331629

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-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°	5.0	4.7	4.8	5.0	5.6	6.4	7.3	8.2	8.6	8.2	8.3
90°	3.1	6.3	7.8	9.4	11.7	15.6	21.1	25.8	26.6	25.8	25.0
92.5°	13.8	19.4	22.8	28.1	35.5	53.2	78.0	100.2	101.6	85.8	68.2
95°	30.5	38.3	45.3	57.8	76.6	112.6	180.6	271.3	306.4	268.1	204.8
97.5°	48.8	57.1	67.7	82.1	103.3	148.5	243.3	394.0	523.1	548.8	477.9
100°	62.5	69.6	82.1	97.7	119.6	161.0	256.4	425.2	617.5	730.1	713.7
102.5°	76.3	83.3	95.8	112.1	134.0	172.3	257.0	413.4	620.7	797.6	868.2
105°	98.5	104.0	115.7	132.9	154.8	191.5	261.1	390.1	579.2	787.2	949.8
107.5°	120.4	125.7	136.5	153.5	175.6	211.2	271.9	378.5	534.8	718.5	891.0
110°	136.0	140.7	150.9	167.3	190.0	224.3	280.6	376.0	513.6	675.4	840.3



TEST NUMBER: P331629

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	149.8	155.1	164.6	180.4	203.7	236.9	290.0	376.6	499.8	645.4	794.1
115°	172.0	176.7	186.0	201.7	222.8	256.4	304.1	379.9	484.7	608.2	737.1
117.5°	193.4	198.1	206.4	221.4	243.3	274.4	319.1	385.5	477.3	584.7	694.3
120°	207.2	211.8	218.9	234.5	256.4	286.9	329.1	389.3	472.9	572.2	673.0
122.5°	219.7	224.3	232.0	247.6	270.2	298.8	337.9	393.7	470.4	561.6	656.2
125°	236.9	241.5	250.9	266.6	288.4	316.6	351.8	400.2	465.9	546.4	631.6
127.5°	251.4	258.0	268.3	283.3	305.8	333.2	364.7	407.0	463.2	532.3	607.4
130°	259.5	267.3	278.3	293.9	315.8	343.2	372.9	412.0	462.0	523.0	591.7
132.5°	267.7	276.1	287.7	303.9	325.8	351.9	381.0	417.0	461.4	515.5	576.7
135°	278.3	287.7	299.4	317.4	339.3	364.3	391.6	422.9	460.4	505.0	555.8
137.5°	289.5	298.9	311.4	329.3	349.6	374.3	399.8	428.2	460.3	497.6	539.1
140°	297.0	306.4	318.9	336.1	356.5	379.9	404.1	430.7	459.6	493.3	528.4
142.5°	304.6	313.3	325.8	342.4	361.5	384.3	407.9	432.6	459.6	488.9	519.7
145°	317.4	325.2	336.9	352.5	369.7	390.9	412.7	434.6	458.1	483.1	507.3
147.5°	329.7	337.2	348.0	361.0	376.3	396.2	415.4	435.3	455.3	477.2	497.8
150°	338.5	344.7	354.9	366.6	380.7	398.7	416.6	434.6	453.4	472.1	490.9
152.5°	346.0	352.2	361.1	372.2	385.1	401.2	417.3	433.4	450.3	467.8	484.0
155°	358.0	362.7	371.3	379.9	391.6	404.9	418.2	431.5	444.8	459.6	474.5
157.5°	368.3	372.1	379.6	386.5	396.3	407.6	418.2	427.9	439.2	452.0	463.4
160°	375.2	378.3	384.6	390.9	399.4	408.8	418.2	426.0	435.4	446.4	456.5
162.5°	380.8	384.0	389.0	394.6	401.3	409.5	417.6	424.2	432.3	441.3	449.6
165°	388.5	390.1	394.8	398.7	403.4	410.4	415.9	420.6	426.0	433.1	439.3
167.5°	394.9	396.3	399.3	402.1	405.1	410.2	414.8	417.0	420.6	424.9	429.5
170°	398.7	399.4	401.8	403.4	405.7	409.6	413.5	415.1	417.4	420.6	424.5
172.5°	401.8	401.3	403.7	404.6	406.3	409.0	411.6	412.6	413.7	416.2	418.8
175°	404.9	404.1	405.7	405.7	406.5	408.0	409.6	408.8	409.6	410.4	412.7
177.5°	405.9	405.2	406.5	406.5	406.5	407.1	408.4	407.1	406.5	407.1	408.4
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



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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°	7.8	8.1	8.2	8.2	8.2	8.2	8.1
90°	23.5	25.0	25.8	25.8	25.8	25.8	25.8
92.5°	58.5	51.9	47.1	46.4	43.9	44.6	43.3
95°	157.1	124.3	107.1	96.9	90.7	88.3	89.1
97.5°	391.0	306.4	250.0	212.6	193.4	182.0	175.4
100°	616.8	509.7	415.1	350.2	316.6	293.9	279.8
102.5°	846.3	767.9	667.7	597.2	539.8	511.5	492.5
105°	1038.1	1048.3	1022.5	974.0	925.5	891.9	881.0
107.5°	1024.0	1105.3	1143.2	1149.3	1146.6	1139.9	1125.3
110°	980.3	1080.3	1144.4	1178.0	1192.9	1199.9	1199.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	928.3	1035.3	1108.8	1155.5	1180.4	1193.7	1197.9
115°	857.5	959.9	1040.4	1095.9	1131.9	1152.2	1159.3
117.5°	800.0	892.9	968.4	1025.0	1063.0	1084.4	1090.3
120°	770.0	852.8	924.0	978.7	1015.4	1038.1	1045.9
122.5°	745.0	823.4	887.7	936.8	972.9	993.1	999.6
125°	712.1	780.9	839.5	884.9	914.6	934.1	940.4
127.5°	680.2	745.1	799.2	838.8	866.6	883.5	888.5
130°	659.0	720.7	772.3	810.6	837.2	852.8	859.1
132.5°	639.0	695.7	744.2	781.9	808.4	822.8	828.4
135°	607.4	659.0	702.7	736.4	762.2	776.2	779.4
137.5°	582.2	623.2	661.3	692.0	714.2	726.5	731.2
140°	566.0	601.9	636.3	661.3	681.6	693.4	698.1
142.5°	551.6	582.5	611.3	635.1	653.5	664.0	664.9
145°	533.1	557.4	580.0	598.8	612.1	619.9	622.2
147.5°	518.1	537.0	553.6	569.1	579.7	585.0	586.4
150°	508.1	524.5	538.6	550.3	559.7	564.4	565.2
152.5°	500.0	513.9	526.1	535.3	543.4	546.9	547.0
155°	487.0	498.7	507.3	515.9	521.4	524.5	523.0
157.5°	473.9	483.7	490.4	496.5	501.1	502.5	502.5
160°	465.1	473.7	479.2	484.7	488.6	489.3	489.3
162.5°	457.0	464.3	468.6	474.0	476.7	477.5	476.8
165°	444.8	450.3	453.4	456.5	459.6	459.6	458.9
167.5°	433.7	437.4	440.3	441.7	443.4	443.2	442.3
170°	426.8	429.9	431.5	432.3	434.6	433.8	432.3
172.5°	420.6	423.1	424.0	424.8	425.9	425.1	424.2
175°	413.5	414.3	415.1	415.1	415.9	415.1	413.5
177.5°	408.4	409.0	409.0	409.0	409.0	408.4	407.1
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5

(END OF REPORT)