

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: P331628

Luminaire Tested: **SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331628
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
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-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 725 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

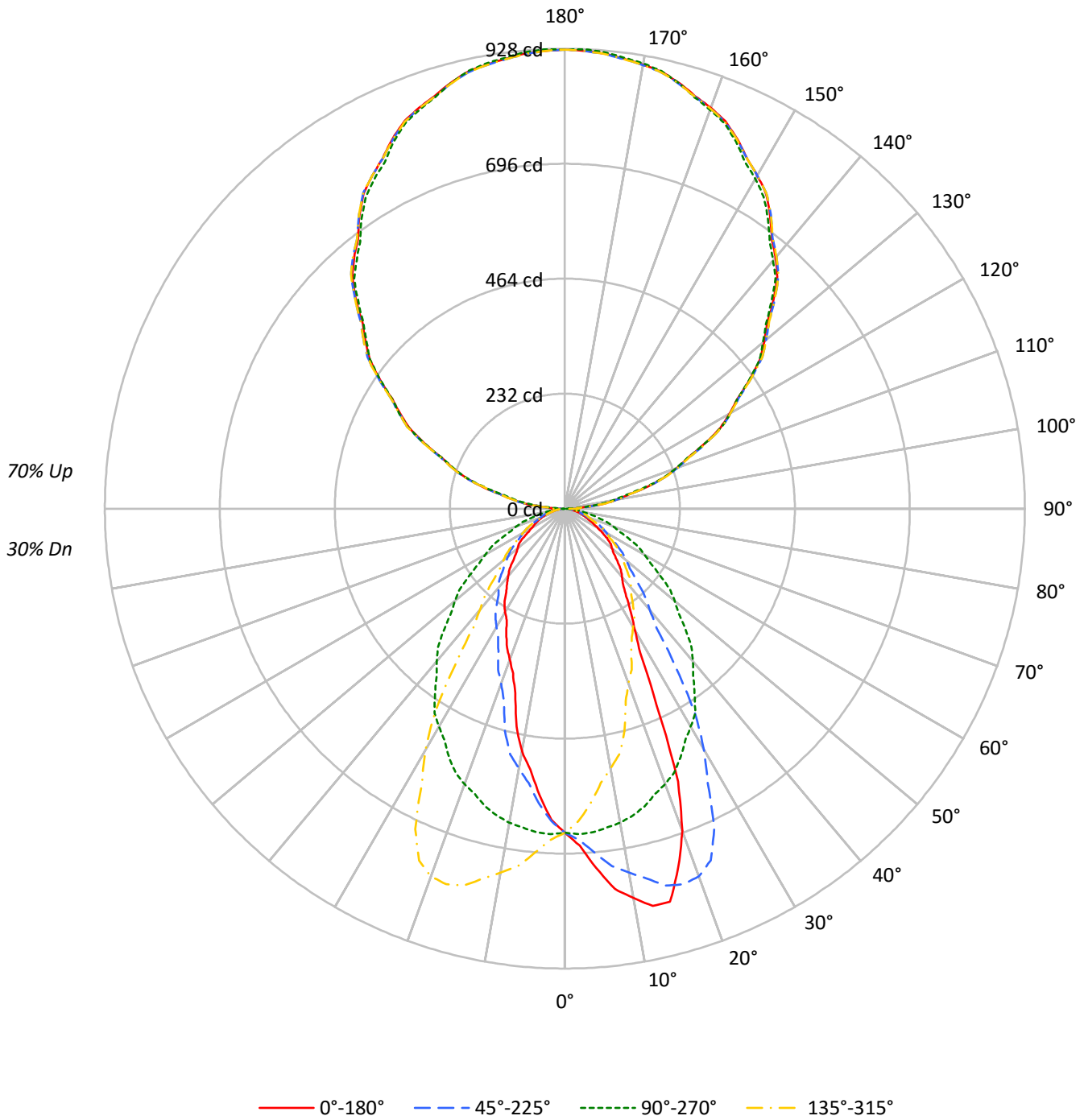
Lumens per Lamp: N/A
Luminaire Lumens: 3723.5 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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	92	92	92	92	72	72	72	55	55	55	38	38	38	30				
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	34	34	33	27				
2	86	79	73	68	77	71	66	62	57	53	51	43	41	39	31	30	29	23				
3	79	70	63	58	70	63	57	53	50	46	43	39	36	34	28	26	25	20				
4	72	62	55	49	65	56	50	45	45	41	37	35	32	29	25	23	22	18				
5	66	55	48	42	59	50	44	39	41	36	32	31	28	26	23	21	19	16				
6	61	50	42	37	55	45	39	34	37	32	28	29	25	23	21	19	17	14				
7	57	45	38	32	51	41	35	30	33	29	25	26	23	20	19	17	16	13				
8	53	41	34	29	47	37	31	27	30	26	22	24	21	18	18	16	14	12				
9	49	37	30	26	44	34	28	24	28	23	20	22	19	17	17	15	13	11				
10	46	34	28	23	41	31	25	21	26	21	18	20	17	15	15	13	12	10				

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



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	1.7
10°-20°	172.7	4.6
20°-30°	222.5	6.0
30°-40°	211.5	5.7
40°-50°	181.1	4.9
50°-60°	137.9	3.7
60°-70°	87.2	2.3
70°-80°	43.5	1.2
80°-90°	15.0	0.4
90°-100°	58.7	1.6
100°-110°	182.3	4.9
110°-120°	311.6	8.4
120°-130°	409.8	11.0
130°-140°	459.9	12.4
140°-150°	450.9	12.1
150°-160°	378.2	10.2
160°-170°	250.9	6.7
170°-180°	87.7	2.4
0°-30°	457.2	12.3
0°-40°	668.6	18.0
0°-60°	987.7	26.5
0°-90°	1133.5	30.4
90°-120°	552.6	14.8
90°-150°	1873.2	50.3
90°-180°	2590.0	69.6
0°-180°	3723.5	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°	27	1	27	1	27	12
95°	48	41	48	41	48	54
105°	174	168	174	168	174	182
115°	313	313	313	313	313	309
125°	456	455	456	455	456	407
135°	596	589	596	589	596	458
145°	722	714	722	714	722	451
155°	823	817	823	817	823	379
165°	890	889	890	889	890	251
175°	922	925	922	925	922	88
180°	926	926	926	926	926	



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

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°	8.2	8.4	8.3	8.3	8.3	8.3	8.4	8.6	8.5	8.7	7.8
90°	26.6	26.4	26.2	26.1	25.9	26.0	26.3	26.7	27.0	27.4	23.5
92.5°	25.3	25.3	25.3	25.2	25.2	25.1	25.1	25.0	24.9	24.9	24.0
95°	48.5	48.8	49.2	49.5	49.9	50.0	50.0	50.0	50.0	50.0	49.7
97.5°	83.9	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	83.4
100°	107.1	107.3	107.4	107.6	107.8	107.9	107.9	107.9	107.9	107.9	107.3
102.5°	133.3	133.5	133.7	133.9	134.0	134.1	133.9	133.8	133.6	133.5	132.8
105°	173.5	173.5	173.5	173.5	173.5	173.4	173.0	172.7	172.3	172.0	171.6
107.5°	211.4	212.2	213.0	213.8	214.6	214.9	214.7	214.6	214.5	214.3	214.3
110°	240.7	241.3	241.8	242.3	242.8	243.1	243.1	243.1	243.1	243.1	243.1



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	268.9	269.3	269.6	270.0	270.4	270.8	271.2	271.6	272.1	272.5	272.6
115°	312.7	313.2	313.7	314.2	314.7	315.1	315.3	315.4	315.6	315.8	316.1
117.5°	354.4	354.9	355.4	356.0	356.5	356.9	357.4	357.8	358.2	358.6	359.6
120°	383.8	384.3	384.8	385.3	385.9	386.1	386.1	386.1	386.1	386.1	387.5
122.5°	412.6	412.9	413.3	413.7	414.1	414.5	414.9	415.3	415.7	416.1	417.1
125°	456.5	456.7	456.8	457.0	457.2	457.5	458.0	458.6	459.1	459.6	460.1
127.5°	496.5	497.1	497.6	498.2	498.7	499.3	499.9	500.6	501.2	501.8	502.4
130°	525.3	526.0	526.7	527.3	528.0	528.6	528.9	529.3	529.6	530.0	530.3
132.5°	552.8	553.3	553.9	554.4	555.0	555.7	556.4	557.2	558.0	558.7	558.6
135°	595.6	596.1	596.7	597.2	597.7	598.0	598.2	598.4	598.6	598.7	598.4
137.5°	634.4	635.1	635.8	636.5	637.2	637.6	637.7	637.9	638.0	638.1	637.7
140°	661.3	662.0	662.7	663.4	664.0	664.4	664.4	664.4	664.4	664.4	663.5
142.5°	685.7	686.4	687.0	687.7	688.4	688.7	688.6	688.4	688.3	688.2	687.6
145°	722.2	722.9	723.6	724.3	725.0	725.3	725.1	724.9	724.8	724.6	723.5
147.5°	754.9	755.6	756.2	756.9	757.6	757.7	757.3	756.9	756.5	756.2	755.5
150°	776.2	776.7	777.2	777.7	778.3	778.3	777.7	777.2	776.7	776.2	775.5
152.5°	796.2	796.8	797.5	798.2	798.8	798.8	798.2	797.5	796.8	796.2	795.3
155°	823.1	823.6	824.1	824.6	825.2	825.0	824.1	823.2	822.4	821.5	821.0
157.5°	846.2	847.0	847.9	848.7	849.5	849.4	848.2	847.0	845.8	844.6	844.3
160°	860.6	861.3	862.0	862.7	863.4	863.2	862.2	861.1	860.1	859.0	858.9
162.5°	873.1	873.9	874.8	875.6	876.4	876.3	875.1	873.9	872.7	871.5	871.4
165°	889.5	890.4	891.2	892.1	893.0	892.8	891.6	890.4	889.2	887.9	887.9
167.5°	903.0	903.9	904.8	905.7	906.6	906.4	905.2	904.0	902.8	901.5	901.6
170°	909.8	910.9	911.9	913.0	914.0	913.9	912.7	911.5	910.3	909.0	909.2
172.5°	915.5	916.5	917.5	918.6	919.6	919.5	918.3	917.1	915.9	914.7	914.9
175°	921.6	922.6	923.6	924.7	925.7	925.6	924.4	923.2	922.0	920.8	921.1
177.5°	924.4	925.2	926.0	926.9	927.7	927.7	926.9	926.0	925.2	924.4	924.6
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

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°	7.0	6.4	5.7	4.9	4.7	4.4	4.9	5.4	5.1	5.0	5.0
90°	19.7	15.9	12.1	9.1	7.0	5.0	2.9	0.8	2.9	5.0	7.0
92.5°	23.0	22.1	21.2	20.0	18.5	17.0	15.4	13.9	15.4	17.0	18.5
95°	49.3	49.0	48.6	47.6	45.9	44.1	42.4	40.6	42.4	44.1	45.9
97.5°	82.8	82.1	81.5	80.4	78.8	77.3	75.8	74.3	75.8	77.3	78.8
100°	106.8	106.3	105.8	104.8	103.4	102.0	100.7	99.3	100.7	102.0	103.4
102.5°	132.2	131.5	130.9	130.0	128.9	127.8	126.6	125.5	126.6	127.8	128.9
105°	171.3	170.9	170.6	170.1	169.6	169.1	168.6	168.1	168.6	169.1	169.6
107.5°	214.3	214.3	214.3	213.9	213.2	212.4	211.7	210.9	211.7	212.4	213.2
110°	243.1	243.1	243.1	242.6	241.5	240.5	239.4	238.4	239.4	240.5	241.5



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	272.8	272.9	273.0	272.6	271.5	270.5	269.5	268.4	269.5	270.5	271.5
115°	316.5	316.8	317.2	316.8	315.8	314.7	313.7	312.7	313.7	314.7	315.8
117.5°	360.6	361.5	362.5	362.3	360.9	359.5	358.1	356.7	358.1	359.5	360.9
120°	388.9	390.3	391.7	391.7	390.3	388.9	387.5	386.1	387.5	388.9	390.3
122.5°	418.1	419.1	420.0	419.7	418.0	416.4	414.7	413.0	414.7	416.4	418.0
125°	460.6	461.2	461.7	461.2	459.6	458.0	456.5	454.9	456.5	458.0	459.6
127.5°	503.1	503.7	504.3	503.6	501.7	499.7	497.7	495.7	497.7	499.7	501.7
130°	530.6	531.0	531.3	530.4	528.1	525.9	523.6	521.4	523.6	525.9	528.1
132.5°	558.6	558.5	558.4	557.5	555.6	553.8	552.0	550.1	552.0	553.8	555.6
135°	598.0	597.7	597.3	596.2	594.3	592.4	590.5	588.6	590.5	592.4	594.3
137.5°	637.2	636.8	636.3	635.3	633.8	632.2	630.6	629.1	630.6	632.2	633.8
140°	662.7	661.8	660.9	659.7	658.1	656.6	655.0	653.5	655.0	656.6	658.1
142.5°	687.0	686.4	685.8	684.7	683.2	681.6	680.0	678.5	680.0	681.6	683.2
145°	722.5	721.5	720.4	719.3	718.1	716.9	715.6	714.4	715.6	716.9	718.1
147.5°	754.8	754.1	753.4	752.3	750.8	749.4	747.9	746.5	747.9	749.4	750.8
150°	774.8	774.1	773.4	772.5	771.5	770.4	769.4	768.4	769.4	770.4	771.5
152.5°	794.5	793.7	792.8	791.9	790.9	789.8	788.8	787.7	788.8	789.8	790.9
155°	820.5	819.9	819.4	818.9	818.4	817.9	817.3	816.8	817.3	817.9	818.4
157.5°	844.0	843.7	843.4	843.1	842.7	842.4	842.0	841.7	842.0	842.4	842.7
160°	858.7	858.5	858.3	858.1	857.7	857.4	857.0	856.7	857.0	857.4	857.7
162.5°	871.2	871.0	870.8	870.7	870.6	870.6	870.5	870.4	870.5	870.6	870.6
165°	887.9	887.9	887.9	888.0	888.2	888.4	888.6	888.7	888.6	888.4	888.2
167.5°	901.6	901.7	901.7	902.0	902.5	903.0	903.5	904.0	903.5	903.0	902.5
170°	909.4	909.6	909.7	910.1	910.6	911.1	911.7	912.2	911.7	911.1	910.6
172.5°	915.0	915.2	915.4	915.7	916.2	916.8	917.3	917.8	917.3	916.8	916.2
175°	921.5	921.8	922.2	922.6	923.1	923.6	924.2	924.7	924.2	923.6	923.1
177.5°	924.9	925.2	925.5	925.8	926.2	926.7	927.1	927.5	927.1	926.7	926.2
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

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	5.7	6.1	6.9	7.6	8.2	8.1	7.9	7.8	7.7	7.5
90°	9.1	12.1	15.9	19.7	23.5	27.4	27.0	26.7	26.3	26.0	25.9
92.5°	20.0	21.2	22.1	23.0	24.0	24.9	24.9	25.0	25.1	25.1	25.2
95°	47.6	48.6	49.0	49.3	49.7	50.0	50.0	50.0	50.0	50.0	49.9
97.5°	80.4	81.5	82.1	82.8	83.4	84.1	84.1	84.1	84.1	84.1	84.1
100°	104.8	105.8	106.3	106.8	107.3	107.9	107.9	107.9	107.9	107.9	107.8
102.5°	130.0	130.9	131.5	132.2	132.8	133.5	133.6	133.8	133.9	134.1	134.0
105°	170.1	170.6	170.9	171.3	171.6	172.0	172.3	172.7	173.0	173.4	173.5
107.5°	213.9	214.3	214.3	214.3	214.3	214.3	214.5	214.6	214.7	214.9	214.6
110°	242.6	243.1	243.1	243.1	243.1	243.1	243.1	243.1	243.1	243.1	242.8



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	272.6	273.0	272.9	272.8	272.6	272.5	272.1	271.6	271.2	270.8	270.4
115°	316.8	317.2	316.8	316.5	316.1	315.8	315.6	315.4	315.3	315.1	314.7
117.5°	362.3	362.5	361.5	360.6	359.6	358.6	358.2	357.8	357.4	356.9	356.5
120°	391.7	391.7	390.3	388.9	387.5	386.1	386.1	386.1	386.1	386.1	385.9
122.5°	419.7	420.0	419.1	418.1	417.1	416.1	415.7	415.3	414.9	414.5	414.1
125°	461.2	461.7	461.2	460.6	460.1	459.6	459.1	458.6	458.0	457.5	457.2
127.5°	503.6	504.3	503.7	503.1	502.4	501.8	501.2	500.6	499.9	499.3	498.7
130°	530.4	531.3	531.0	530.6	530.3	530.0	529.6	529.3	528.9	528.6	528.0
132.5°	557.5	558.4	558.5	558.6	558.6	558.7	558.0	557.2	556.4	555.7	555.0
135°	596.2	597.3	597.7	598.0	598.4	598.7	598.6	598.4	598.2	598.0	597.7
137.5°	635.3	636.3	636.8	637.2	637.7	638.1	638.0	637.9	637.7	637.6	637.2
140°	659.7	660.9	661.8	662.7	663.5	664.4	664.4	664.4	664.4	664.4	664.0
142.5°	684.7	685.8	686.4	687.0	687.6	688.2	688.3	688.4	688.6	688.7	688.4
145°	719.3	720.4	721.5	722.5	723.5	724.6	724.8	724.9	725.1	725.3	725.0
147.5°	752.3	753.4	754.1	754.8	755.5	756.2	756.5	756.9	757.3	757.7	757.6
150°	772.5	773.4	774.1	774.8	775.5	776.2	776.7	777.2	777.7	778.3	778.3
152.5°	791.9	792.8	793.7	794.5	795.3	796.2	796.8	797.5	798.2	798.8	798.8
155°	818.9	819.4	819.9	820.5	821.0	821.5	822.4	823.2	824.1	825.0	825.2
157.5°	843.1	843.4	843.7	844.0	844.3	844.6	845.8	847.0	848.2	849.4	849.5
160°	858.1	858.3	858.5	858.7	858.9	859.0	860.1	861.1	862.2	863.2	863.4
162.5°	870.7	870.8	871.0	871.2	871.4	871.5	872.7	873.9	875.1	876.3	876.4
165°	888.0	887.9	887.9	887.9	887.9	887.9	889.2	890.4	891.6	892.8	893.0
167.5°	902.0	901.7	901.7	901.6	901.6	901.5	902.8	904.0	905.2	906.4	906.6
170°	910.1	909.7	909.6	909.4	909.2	909.0	910.3	911.5	912.7	913.9	914.0
172.5°	915.7	915.4	915.2	915.0	914.9	914.7	915.9	917.1	918.3	919.5	919.6
175°	922.6	922.2	921.8	921.5	921.1	920.8	922.0	923.2	924.4	925.6	925.7
177.5°	925.8	925.5	925.2	924.9	924.6	924.4	925.2	926.0	926.9	927.7	927.7
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

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°	7.6	7.4	7.6	7.5	7.6	7.4	7.6	7.5	7.7	7.8	7.9
90°	26.1	26.2	26.4	26.6	26.4	26.2	26.1	25.9	26.0	26.3	26.7
92.5°	25.2	25.3	25.3	25.3	25.3	25.3	25.2	25.2	25.1	25.1	25.0
95°	49.5	49.2	48.8	48.5	48.8	49.2	49.5	49.9	50.0	50.0	50.0
97.5°	84.1	84.0	84.0	83.9	84.0	84.0	84.1	84.1	84.1	84.1	84.1
100°	107.6	107.4	107.3	107.1	107.3	107.4	107.6	107.8	107.9	107.9	107.9
102.5°	133.9	133.7	133.5	133.3	133.5	133.7	133.9	134.0	134.1	133.9	133.8
105°	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.4	173.0	172.7
107.5°	213.8	213.0	212.2	211.4	212.2	213.0	213.8	214.6	214.9	214.7	214.6
110°	242.3	241.8	241.3	240.7	241.3	241.8	242.3	242.8	243.1	243.1	243.1



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	270.0	269.6	269.3	268.9	269.3	269.6	270.0	270.4	270.8	271.2	271.6
115°	314.2	313.7	313.2	312.7	313.2	313.7	314.2	314.7	315.1	315.3	315.4
117.5°	356.0	355.4	354.9	354.4	354.9	355.4	356.0	356.5	356.9	357.4	357.8
120°	385.3	384.8	384.3	383.8	384.3	384.8	385.3	385.9	386.1	386.1	386.1
122.5°	413.7	413.3	412.9	412.6	412.9	413.3	413.7	414.1	414.5	414.9	415.3
125°	457.0	456.8	456.7	456.5	456.7	456.8	457.0	457.2	457.5	458.0	458.6
127.5°	498.2	497.6	497.1	496.5	497.1	497.6	498.2	498.7	499.3	499.9	500.6
130°	527.3	526.7	526.0	525.3	526.0	526.7	527.3	528.0	528.6	528.9	529.3
132.5°	554.4	553.9	553.3	552.8	553.3	553.9	554.4	555.0	555.7	556.4	557.2
135°	597.2	596.7	596.1	595.6	596.1	596.7	597.2	597.7	598.0	598.2	598.4
137.5°	636.5	635.8	635.1	634.4	635.1	635.8	636.5	637.2	637.6	637.7	637.9
140°	663.4	662.7	662.0	661.3	662.0	662.7	663.4	664.0	664.4	664.4	664.4
142.5°	687.7	687.0	686.4	685.7	686.4	687.0	687.7	688.4	688.7	688.6	688.4
145°	724.3	723.6	722.9	722.2	722.9	723.6	724.3	725.0	725.3	725.1	724.9
147.5°	756.9	756.2	755.6	754.9	755.6	756.2	756.9	757.6	757.7	757.3	756.9
150°	777.7	777.2	776.7	776.2	776.7	777.2	777.7	778.3	778.3	777.7	777.2
152.5°	798.2	797.5	796.8	796.2	796.8	797.5	798.2	798.8	798.8	798.2	797.5
155°	824.6	824.1	823.6	823.1	823.6	824.1	824.6	825.2	825.0	824.1	823.2
157.5°	848.7	847.9	847.0	846.2	847.0	847.9	848.7	849.5	849.4	848.2	847.0
160°	862.7	862.0	861.3	860.6	861.3	862.0	862.7	863.4	863.2	862.2	861.1
162.5°	875.6	874.8	873.9	873.1	873.9	874.8	875.6	876.4	876.3	875.1	873.9
165°	892.1	891.2	890.4	889.5	890.4	891.2	892.1	893.0	892.8	891.6	890.4
167.5°	905.7	904.8	903.9	903.0	903.9	904.8	905.7	906.6	906.4	905.2	904.0
170°	913.0	911.9	910.9	909.8	910.9	911.9	913.0	914.0	913.9	912.7	911.5
172.5°	918.6	917.5	916.5	915.5	916.5	917.5	918.6	919.6	919.5	918.3	917.1
175°	924.7	923.6	922.6	921.6	922.6	923.6	924.7	925.7	925.6	924.4	923.2
177.5°	926.9	926.0	925.2	924.4	925.2	926.0	926.9	927.7	927.7	926.9	926.0
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

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°	8.1	8.2	7.6	6.9	6.1	5.7	5.3	5.0	5.0	5.1	5.4
90°	27.0	27.4	23.5	19.7	15.9	12.1	9.1	7.0	5.0	2.9	0.8
92.5°	24.9	24.9	24.0	23.0	22.1	21.2	20.0	18.5	17.0	15.4	13.9
95°	50.0	50.0	49.7	49.3	49.0	48.6	47.6	45.9	44.1	42.4	40.6
97.5°	84.1	84.1	83.4	82.8	82.1	81.5	80.4	78.8	77.3	75.8	74.3
100°	107.9	107.9	107.3	106.8	106.3	105.8	104.8	103.4	102.0	100.7	99.3
102.5°	133.6	133.5	132.8	132.2	131.5	130.9	130.0	128.9	127.8	126.6	125.5
105°	172.3	172.0	171.6	171.3	170.9	170.6	170.1	169.6	169.1	168.6	168.1
107.5°	214.5	214.3	214.3	214.3	214.3	214.3	213.9	213.2	212.4	211.7	210.9
110°	243.1	243.1	243.1	243.1	243.1	243.1	242.6	241.5	240.5	239.4	238.4



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	272.1	272.5	272.6	272.8	272.9	273.0	272.6	271.5	270.5	269.5	268.4
115°	315.6	315.8	316.1	316.5	316.8	317.2	316.8	315.8	314.7	313.7	312.7
117.5°	358.2	358.6	359.6	360.6	361.5	362.5	362.3	360.9	359.5	358.1	356.7
120°	386.1	386.1	387.5	388.9	390.3	391.7	391.7	390.3	388.9	387.5	386.1
122.5°	415.7	416.1	417.1	418.1	419.1	420.0	419.7	418.0	416.4	414.7	413.0
125°	459.1	459.6	460.1	460.6	461.2	461.7	461.2	459.6	458.0	456.5	454.9
127.5°	501.2	501.8	502.4	503.1	503.7	504.3	503.6	501.7	499.7	497.7	495.7
130°	529.6	530.0	530.3	530.6	531.0	531.3	530.4	528.1	525.9	523.6	521.4
132.5°	558.0	558.7	558.6	558.6	558.5	558.4	557.5	555.6	553.8	552.0	550.1
135°	598.6	598.7	598.4	598.0	597.7	597.3	596.2	594.3	592.4	590.5	588.6
137.5°	638.0	638.1	637.7	637.2	636.8	636.3	635.3	633.8	632.2	630.6	629.1
140°	664.4	664.4	663.5	662.7	661.8	660.9	659.7	658.1	656.6	655.0	653.5
142.5°	688.3	688.2	687.6	687.0	686.4	685.8	684.7	683.2	681.6	680.0	678.5
145°	724.8	724.6	723.5	722.5	721.5	720.4	719.3	718.1	716.9	715.6	714.4
147.5°	756.5	756.2	755.5	754.8	754.1	753.4	752.3	750.8	749.4	747.9	746.5
150°	776.7	776.2	775.5	774.8	774.1	773.4	772.5	771.5	770.4	769.4	768.4
152.5°	796.8	796.2	795.3	794.5	793.7	792.8	791.9	790.9	789.8	788.8	787.7
155°	822.4	821.5	821.0	820.5	819.9	819.4	818.9	818.4	817.9	817.3	816.8
157.5°	845.8	844.6	844.3	844.0	843.7	843.4	843.1	842.7	842.4	842.0	841.7
160°	860.1	859.0	858.9	858.7	858.5	858.3	858.1	857.7	857.4	857.0	856.7
162.5°	872.7	871.5	871.4	871.2	871.0	870.8	870.7	870.6	870.6	870.5	870.4
165°	889.2	887.9	887.9	887.9	887.9	887.9	888.0	888.2	888.4	888.6	888.7
167.5°	902.8	901.5	901.6	901.6	901.7	901.7	902.0	902.5	903.0	903.5	904.0
170°	910.3	909.0	909.2	909.4	909.6	909.7	910.1	910.6	911.1	911.7	912.2
172.5°	915.9	914.7	914.9	915.0	915.2	915.4	915.7	916.2	916.8	917.3	917.8
175°	922.0	920.8	921.1	921.5	921.8	922.2	922.6	923.1	923.6	924.2	924.7
177.5°	925.2	924.4	924.6	924.9	925.2	925.5	925.8	926.2	926.7	927.1	927.5
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

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°	4.9	4.4	4.7	4.9	5.7	6.4	7.0	7.8	8.7	8.5	8.6
90°	2.9	5.0	7.0	9.1	12.1	15.9	19.7	23.5	27.4	27.0	26.7
92.5°	15.4	17.0	18.5	20.0	21.2	22.1	23.0	24.0	24.9	24.9	25.0
95°	42.4	44.1	45.9	47.6	48.6	49.0	49.3	49.7	50.0	50.0	50.0
97.5°	75.8	77.3	78.8	80.4	81.5	82.1	82.8	83.4	84.1	84.1	84.1
100°	100.7	102.0	103.4	104.8	105.8	106.3	106.8	107.3	107.9	107.9	107.9
102.5°	126.6	127.8	128.9	130.0	130.9	131.5	132.2	132.8	133.5	133.6	133.8
105°	168.6	169.1	169.6	170.1	170.6	170.9	171.3	171.6	172.0	172.3	172.7
107.5°	211.7	212.4	213.2	213.9	214.3	214.3	214.3	214.3	214.3	214.5	214.6
110°	239.4	240.5	241.5	242.6	243.1	243.1	243.1	243.1	243.1	243.1	243.1



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	269.5	270.5	271.5	272.6	273.0	272.9	272.8	272.6	272.5	272.1	271.6
115°	313.7	314.7	315.8	316.8	317.2	316.8	316.5	316.1	315.8	315.6	315.4
117.5°	358.1	359.5	360.9	362.3	362.5	361.5	360.6	359.6	358.6	358.2	357.8
120°	387.5	388.9	390.3	391.7	391.7	390.3	388.9	387.5	386.1	386.1	386.1
122.5°	414.7	416.4	418.0	419.7	420.0	419.1	418.1	417.1	416.1	415.7	415.3
125°	456.5	458.0	459.6	461.2	461.7	461.2	460.6	460.1	459.6	459.1	458.6
127.5°	497.7	499.7	501.7	503.6	504.3	503.7	503.1	502.4	501.8	501.2	500.6
130°	523.6	525.9	528.1	530.4	531.3	531.0	530.6	530.3	530.0	529.6	529.3
132.5°	552.0	553.8	555.6	557.5	558.4	558.5	558.6	558.6	558.7	558.0	557.2
135°	590.5	592.4	594.3	596.2	597.3	597.7	598.0	598.4	598.7	598.6	598.4
137.5°	630.6	632.2	633.8	635.3	636.3	636.8	637.2	637.7	638.1	638.0	637.9
140°	655.0	656.6	658.1	659.7	660.9	661.8	662.7	663.5	664.4	664.4	664.4
142.5°	680.0	681.6	683.2	684.7	685.8	686.4	687.0	687.6	688.2	688.3	688.4
145°	715.6	716.9	718.1	719.3	720.4	721.5	722.5	723.5	724.6	724.8	724.9
147.5°	747.9	749.4	750.8	752.3	753.4	754.1	754.8	755.5	756.2	756.5	756.9
150°	769.4	770.4	771.5	772.5	773.4	774.1	774.8	775.5	776.2	776.7	777.2
152.5°	788.8	789.8	790.9	791.9	792.8	793.7	794.5	795.3	796.2	796.8	797.5
155°	817.3	817.9	818.4	818.9	819.4	819.9	820.5	821.0	821.5	822.4	823.2
157.5°	842.0	842.4	842.7	843.1	843.4	843.7	844.0	844.3	844.6	845.8	847.0
160°	857.0	857.4	857.7	858.1	858.3	858.5	858.7	858.9	859.0	860.1	861.1
162.5°	870.5	870.6	870.6	870.7	870.8	871.0	871.2	871.4	871.5	872.7	873.9
165°	888.6	888.4	888.2	888.0	887.9	887.9	887.9	887.9	887.9	889.2	890.4
167.5°	903.5	903.0	902.5	902.0	901.7	901.7	901.6	901.6	901.5	902.8	904.0
170°	911.7	911.1	910.6	910.1	909.7	909.6	909.4	909.2	909.0	910.3	911.5
172.5°	917.3	916.8	916.2	915.7	915.4	915.2	915.0	914.9	914.7	915.9	917.1
175°	924.2	923.6	923.1	922.6	922.2	921.8	921.5	921.1	920.8	922.0	923.2
177.5°	927.1	926.7	926.2	925.8	925.5	925.2	924.9	924.6	924.4	925.2	926.0
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

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°	8.4	8.3	8.3	8.3	8.3	8.4	8.2
90°	26.3	26.0	25.9	26.1	26.2	26.4	26.6
92.5°	25.1	25.1	25.2	25.2	25.3	25.3	25.3
95°	50.0	50.0	49.9	49.5	49.2	48.8	48.5
97.5°	84.1	84.1	84.1	84.1	84.0	84.0	83.9
100°	107.9	107.9	107.8	107.6	107.4	107.3	107.1
102.5°	133.9	134.1	134.0	133.9	133.7	133.5	133.3
105°	173.0	173.4	173.5	173.5	173.5	173.5	173.5
107.5°	214.7	214.9	214.6	213.8	213.0	212.2	211.4
110°	243.1	243.1	242.8	242.3	241.8	241.3	240.7



TEST NUMBER: P331628

CATALOG NUMBER: SA2XXRDIP-C290D725U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	271.2	270.8	270.4	270.0	269.6	269.3	268.9
115°	315.3	315.1	314.7	314.2	313.7	313.2	312.7
117.5°	357.4	356.9	356.5	356.0	355.4	354.9	354.4
120°	386.1	386.1	385.9	385.3	384.8	384.3	383.8
122.5°	414.9	414.5	414.1	413.7	413.3	412.9	412.6
125°	458.0	457.5	457.2	457.0	456.8	456.7	456.5
127.5°	499.9	499.3	498.7	498.2	497.6	497.1	496.5
130°	528.9	528.6	528.0	527.3	526.7	526.0	525.3
132.5°	556.4	555.7	555.0	554.4	553.9	553.3	552.8
135°	598.2	598.0	597.7	597.2	596.7	596.1	595.6
137.5°	637.7	637.6	637.2	636.5	635.8	635.1	634.4
140°	664.4	664.4	664.0	663.4	662.7	662.0	661.3
142.5°	688.6	688.7	688.4	687.7	687.0	686.4	685.7
145°	725.1	725.3	725.0	724.3	723.6	722.9	722.2
147.5°	757.3	757.7	757.6	756.9	756.2	755.6	754.9
150°	777.7	778.3	778.3	777.7	777.2	776.7	776.2
152.5°	798.2	798.8	798.8	798.2	797.5	796.8	796.2
155°	824.1	825.0	825.2	824.6	824.1	823.6	823.1
157.5°	848.2	849.4	849.5	848.7	847.9	847.0	846.2
160°	862.2	863.2	863.4	862.7	862.0	861.3	860.6
162.5°	875.1	876.3	876.4	875.6	874.8	873.9	873.1
165°	891.6	892.8	893.0	892.1	891.2	890.4	889.5
167.5°	905.2	906.4	906.6	905.7	904.8	903.9	903.0
170°	912.7	913.9	914.0	913.0	911.9	910.9	909.8
172.5°	918.3	919.5	919.6	918.6	917.5	916.5	915.5
175°	924.4	925.6	925.7	924.7	923.6	922.6	921.6
177.5°	926.9	927.7	927.7	926.9	926.0	925.2	924.4
180°	926.2	926.2	926.2	926.2	926.2	926.2	926.2

(END OF REPORT)