

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: P331765-940

Luminaire Tested: **S122RDIW-S290D435U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331765-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S290D435U940-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 435 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2552.3 lumens  
Efficiency: N/A  
Efficacy: 111.0 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

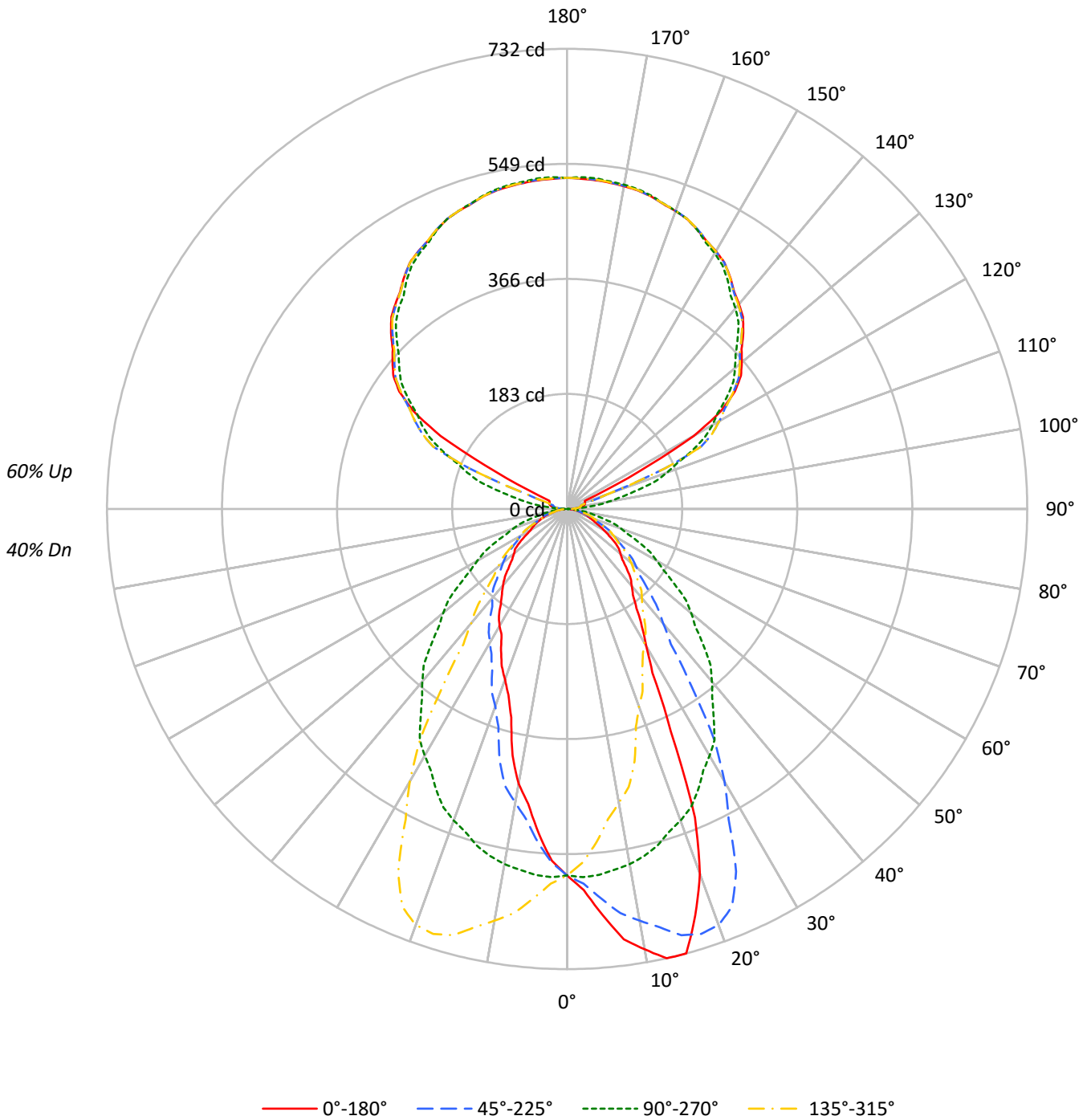
Input Watts (W): 23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	92	88	85	87	84	81	78	69	67	65	55	53	52	42	41	40	34
2	88	81	75	71	80	74	69	65	61	58	55	49	47	45	38	36	35	30
3	81	72	65	60	73	66	60	55	54	50	47	44	41	38	34	32	31	26
4	74	64	57	51	67	59	52	47	49	44	40	40	36	34	31	29	27	23
5	68	57	50	44	62	53	46	41	44	39	35	36	32	30	28	26	24	21
6	63	52	44	39	57	48	41	36	40	35	31	33	29	26	26	23	21	18
7	58	47	39	34	53	43	37	32	36	31	28	30	26	23	24	21	19	17
8	54	43	35	30	50	39	33	28	33	28	25	28	24	21	22	20	18	15
9	51	39	32	27	46	36	30	26	31	26	22	25	22	19	21	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	24	20	18	19	17	15	13

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

	0°	90°	180°	270°
0°	9411	9411	9411	9411
5°	10511	9470	8399	9470
10°	11663	9404	7279	9404
15°	12236	9267	5735	9267
20°	10608	9062	4962	9062
25°	6957	8783	4431	8783
30°	4683	8444	4010	8444
35°	3792	8016	3617	8016
40°	3372	7552	3347	7552
45°	3053	7005	2987	7005
50°	2778	6465	2768	6465
55°	2609	5866	2578	5866
60°	2186	5318	2160	5318
65°	1841	4829	2090	4829
70°	1699	4310	1969	4310
75°	1591	3755	1822	3755
80°	1469	3096	1618	3096
85°	1352	2445	1426	2445



TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.3	2.2
10°-20°	154.0	6.0
20°-30°	198.4	7.8
30°-40°	188.6	7.4
40°-50°	161.5	6.3
50°-60°	123.0	4.8
60°-70°	77.8	3.0
70°-80°	38.8	1.5
80°-90°	11.4	0.4
90°-100°	17.6	0.7
100°-110°	64.4	2.5
110°-120°	172.2	6.7
120°-130°	284.3	11.1
130°-140°	302.4	11.8
140°-150°	281.0	11.0
150°-160°	225.9	8.9
160°-170°	145.6	5.7
170°-180°	50.1	2.0
0°-30°	407.7	16.0
0°-40°	596.2	23.4
0°-60°	880.8	34.5
0°-90°	1008.8	39.5
90°-120°	254.2	10.0
90°-150°	1121.9	44.0
90°-180°	1544.0	60.5
0°-180°	2552.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	583	583	583	583	583	
5°	648	584	518	584	648	64
15°	732	554	343	554	732	197
25°	390	493	249	493	390	185
35°	192	407	184	407	192	123
45°	134	307	131	307	134	103
55°	93	208	92	208	93	81
65°	48	126	55	126	48	49
75°	26	60	29	60	26	27
85°	7	13	8	13	7	8
90°	10	0	10	0	10	5
95°	16	25	16	25	16	15
105°	29	116	29	116	29	30
115°	31	219	31	219	31	78
125°	326	310	326	310	326	282
135°	396	383	396	383	396	305
145°	452	445	452	445	452	282
155°	490	490	490	490	490	226
165°	515	516	515	516	515	145
175°	525	528	525	528	525	50
180°	527	527	527	527	527	



TEST NUMBER: P331765-940

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	606.6	607.1	607.6	606.5	606.5	605.5	603.3	601.7	597.2	596.6	596.6
5°	648.5	648.2	649.0	646.3	642.7	641.9	638.0	632.9	627.7	621.9	620.6
7.5°	690.3	689.6	688.0	687.6	684.8	678.7	672.5	665.9	657.2	648.6	644.4
10°	711.4	718.1	714.0	706.9	708.3	698.8	693.8	685.0	677.7	664.9	662.2
12.5°	732.1	734.8	733.4	729.4	727.6	721.0	714.2	706.6	693.1	681.7	671.7
15°	732.0	735.8	736.9	735.7	736.6	736.3	732.6	726.4	714.6	702.0	691.1
17.5°	678.0	680.6	687.3	691.8	697.5	709.4	715.4	717.6	716.0	708.7	701.1
20°	617.4	613.0	631.6	641.1	649.2	669.4	686.9	693.6	704.3	704.1	702.0
22.5°	531.5	532.5	550.2	561.5	585.1	605.5	625.3	650.4	671.2	684.9	692.9
25°	390.5	398.2	415.8	431.2	457.5	495.3	529.5	569.2	606.6	636.2	664.4
27.5°	293.3	293.9	307.8	322.1	337.7	368.5	411.7	459.1	512.5	556.6	607.3
30°	251.2	249.9	255.8	264.6	277.9	301.8	334.2	380.8	434.1	500.5	559.6
32.5°	221.3	221.4	225.9	232.3	243.3	259.5	281.7	319.6	369.9	435.2	504.5
35°	192.4	192.3	195.5	200.1	204.7	215.1	230.3	250.1	284.8	345.7	416.6
37.5°	171.7	172.5	174.2	177.1	182.2	188.0	197.1	210.4	235.1	271.2	330.7
40°	160.0	160.4	162.6	165.1	168.1	172.5	180.0	190.8	208.8	237.6	281.2
42.5°	149.4	149.7	151.3	153.6	156.0	160.4	166.7	175.9	190.6	212.9	248.9
45°	133.7	133.7	135.1	136.1	138.8	142.8	147.8	155.6	165.7	182.3	206.2
47.5°	119.0	119.0	120.0	121.7	123.4	126.5	131.5	137.9	145.2	158.0	178.4
50°	110.6	110.8	111.4	112.8	113.9	116.6	120.6	126.0	133.7	143.7	160.6
52.5°	103.8	103.7	104.4	105.0	105.8	107.7	110.7	115.5	122.3	131.0	145.1
55°	92.7	91.9	93.2	94.2	94.8	95.6	97.2	100.2	106.1	113.4	123.9
57.5°	79.0	78.6	79.5	80.4	82.4	84.5	86.0	87.8	90.9	96.1	106.6
60°	67.7	67.7	69.5	70.1	72.3	75.2	78.0	79.6	82.7	86.1	93.8
62.5°	57.6	57.8	58.6	59.2	60.5	63.9	67.9	71.5	74.4	77.7	82.8
65°	48.2	48.6	48.6	49.0	49.8	50.6	52.3	55.1	60.2	64.8	68.7
67.5°	40.9	41.0	41.2	41.6	41.7	42.6	43.3	44.6	45.7	50.1	54.9
70°	36.0	36.6	36.5	36.8	37.1	37.5	38.3	38.9	40.8	41.7	44.6
72.5°	31.5	31.9	31.9	32.2	32.7	32.8	33.4	34.1	35.2	36.0	37.6
75°	25.5	25.3	25.5	25.9	26.1	26.3	26.3	27.1	27.7	28.5	29.6
77.5°	19.7	19.9	19.9	19.9	20.0	20.3	20.2	20.6	21.2	21.7	22.1
80°	15.8	16.0	15.8	16.0	16.2	16.4	16.2	16.4	17.0	17.4	17.4
82.5°	12.2	12.3	12.4	12.4	12.5	12.5	12.8	12.8	13.3	13.2	13.4
85°	7.3	7.1	7.1	7.1	7.3	7.5	7.3	7.3	7.5	7.5	7.5
87.5°	4.6	4.8	4.7	4.7	4.6	4.6	4.5	4.6	4.4	4.5	4.1
90°	10.3	10.2	10.0	9.8	9.6	9.3	8.9	8.5	8.0	7.6	7.0
92.5°	10.3	10.2	10.1	10.0	9.9	9.7	9.5	9.3	9.1	8.8	8.5
95°	16.4	16.5	16.6	16.7	16.8	16.6	16.1	15.7	15.2	14.9	14.3
97.5°	21.8	21.8	21.7	21.6	21.5	21.2	21.0	20.6	20.2	19.9	18.5
100°	25.5	25.3	25.2	25.1	24.9	24.4	23.7	23.1	22.4	21.8	20.2
102.5°	27.4	27.1	26.9	26.7	26.4	25.9	25.0	24.1	23.2	22.3	34.4
105°	29.0	28.6	28.3	27.9	27.6	27.0	26.0	25.1	24.2	23.3	46.4
107.5°	29.8	29.4	29.2	28.8	28.4	28.7	29.7	30.7	31.6	32.5	60.3
110°	30.1	29.8	29.4	29.1	28.7	32.8	41.3	49.8	58.2	66.7	91.1



TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	30.4	30.1	29.9	29.6	29.3	44.7	75.5	106.5	137.3	168.3	174.2
115°	31.2	37.4	43.4	49.6	55.6	78.3	117.5	156.8	195.9	235.1	233.0
117.5°	127.6	147.7	167.6	187.7	207.8	222.5	232.0	241.5	251.0	260.5	259.0
120°	232.5	243.9	255.4	266.8	278.2	283.5	282.4	281.4	280.4	279.4	277.9
122.5°	290.1	292.3	294.5	296.8	299.0	299.8	299.2	298.5	298.0	297.4	295.7
125°	325.8	325.7	325.4	325.1	324.9	324.4	323.9	323.2	322.6	322.1	320.5
127.5°	348.4	348.4	348.3	348.3	348.2	347.8	346.9	346.1	345.2	344.3	343.1
130°	362.5	362.6	362.7	362.7	362.8	362.4	361.4	360.5	359.5	358.6	357.8
132.5°	376.2	376.3	376.3	376.4	376.5	376.1	375.3	374.6	373.8	373.0	372.0
135°	396.0	396.2	396.4	396.5	396.6	396.4	395.5	394.7	393.8	393.0	392.2
137.5°	414.0	414.4	414.6	414.9	415.2	414.9	414.1	413.3	412.4	411.6	410.7
140°	425.3	425.8	426.1	426.6	427.0	426.9	426.1	425.3	424.5	423.8	422.8
142.5°	436.3	436.8	437.2	437.6	438.0	437.9	437.2	436.5	435.8	435.1	434.0
145°	451.7	452.1	452.5	452.9	453.3	453.3	452.6	452.1	451.5	450.8	449.4
147.5°	465.1	465.5	465.8	466.2	466.5	466.5	466.1	465.7	465.2	464.8	463.3
150°	473.4	473.8	474.2	474.7	475.1	475.0	474.5	474.0	473.5	473.0	471.6
152.5°	480.4	480.9	481.5	482.1	482.6	482.7	482.1	481.6	481.1	480.6	479.3
155°	490.2	490.8	491.5	492.1	492.8	492.9	492.4	492.0	491.4	490.9	489.9
157.5°	499.1	499.7	500.3	501.1	501.7	501.8	501.1	500.6	500.0	499.4	498.7
160°	504.3	504.8	505.4	506.0	506.6	506.7	506.1	505.6	505.2	504.6	504.1
162.5°	508.5	509.3	510.0	510.7	511.4	511.5	511.0	510.3	509.8	509.2	508.7
165°	514.9	515.5	516.1	516.7	517.3	517.3	516.7	516.1	515.5	514.9	514.7
167.5°	519.0	519.7	520.5	521.2	522.0	522.1	521.5	520.9	520.3	519.7	519.5
170°	521.4	522.2	522.9	523.7	524.4	524.5	524.0	523.3	522.7	522.2	522.0
172.5°	523.3	524.0	524.8	525.5	526.3	526.4	525.8	525.1	524.6	524.0	523.8
175°	524.9	525.7	526.6	527.4	528.2	528.3	527.7	527.2	526.6	525.9	525.8
177.5°	525.8	526.4	527.0	527.6	528.2	528.3	527.8	527.4	526.9	526.4	526.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	596.9	595.6	594.4	591.6	590.0	586.8	586.4	586.2	582.0	577.9	576.8
5°	617.4	614.1	609.3	603.6	597.7	591.7	587.6	584.3	576.2	568.6	564.1
7.5°	638.0	631.1	622.7	612.0	603.0	593.0	585.5	578.8	567.3	556.2	548.8
10°	653.4	642.1	631.0	616.2	604.6	593.3	582.7	573.6	560.7	546.1	535.7
12.5°	663.0	650.5	635.2	620.7	605.7	591.3	577.2	565.5	550.3	535.2	523.0
15°	675.9	662.5	643.9	623.2	604.0	585.1	569.0	554.4	534.6	516.5	501.5
17.5°	686.5	668.1	648.1	624.2	601.9	578.0	557.1	538.5	516.4	494.6	477.0
20°	689.9	671.6	648.5	624.6	598.3	570.2	547.7	527.4	503.7	480.0	459.8
22.5°	687.8	673.6	647.9	619.3	592.4	562.9	537.5	514.0	487.7	463.5	440.1
25°	673.5	668.6	644.4	613.1	582.4	548.1	518.7	493.0	463.1	437.1	411.6
27.5°	640.2	650.7	635.6	602.4	568.1	531.5	498.4	469.1	438.0	408.8	383.4
30°	608.1	632.1	625.7	594.9	556.6	520.6	483.5	452.9	419.7	389.7	364.6
32.5°	564.2	604.0	610.3	584.5	544.9	505.3	466.5	436.0	401.4	369.8	345.3
35°	494.2	553.8	581.1	564.7	525.0	482.2	442.2	406.7	371.8	340.7	316.4
37.5°	410.8	492.0	537.5	538.7	502.2	457.8	414.1	378.9	343.2	312.6	286.3
40°	356.7	444.6	504.0	517.1	486.3	438.4	394.1	358.3	323.5	293.5	263.3
42.5°	308.1	395.7	468.6	491.5	467.1	419.4	375.1	337.6	303.7	275.4	244.5
45°	249.1	325.7	406.1	447.0	433.5	389.3	342.5	306.8	275.1	250.6	221.0
47.5°	210.2	264.1	342.0	397.3	397.1	356.8	310.7	276.6	247.1	224.1	200.2
50°	188.0	235.0	300.8	363.6	368.8	335.0	291.2	257.4	229.9	205.8	186.5
52.5°	168.0	206.8	265.9	326.2	341.2	311.8	269.4	238.2	211.4	189.2	172.8
55°	142.0	172.0	217.0	273.2	296.0	275.3	237.6	208.4	186.7	168.1	153.9
57.5°	120.1	142.6	178.7	224.0	250.4	237.5	206.3	182.6	164.1	147.2	136.1
60°	106.4	124.8	155.3	193.2	222.4	213.3	186.7	164.7	148.9	134.3	123.8
62.5°	93.4	109.2	135.5	166.2	192.9	189.1	167.5	148.9	135.1	121.8	112.9
65°	75.2	86.7	107.2	131.3	152.8	154.5	138.9	126.4	114.0	103.5	95.6
67.5°	59.8	67.4	81.8	102.1	118.2	123.9	114.4	104.8	95.0	86.9	80.0
70°	50.5	56.5	67.1	83.5	98.3	104.3	98.8	91.3	82.8	76.2	70.3
72.5°	40.8	46.8	54.6	66.6	79.3	85.9	83.9	78.6	71.7	66.1	60.5
75°	30.8	32.6	37.9	46.0	55.9	61.6	63.0	60.2	54.7	50.5	47.2
77.5°	22.7	23.9	26.4	30.6	37.1	42.2	44.2	43.9	40.1	37.7	34.6
80°	18.2	18.8	20.1	21.8	26.8	31.8	33.3	33.3	30.6	29.6	26.6
82.5°	13.8	14.3	15.1	16.1	18.3	22.7	24.3	24.6	23.0	21.7	19.3
85°	7.9	7.7	8.1	8.7	9.1	10.3	12.8	13.2	12.8	11.1	10.5
87.5°	4.0	4.0	3.9	3.6	3.6	3.6	4.2	4.8	4.3	4.0	3.8
90°	6.2	5.6	4.9	4.1	3.2	2.2	1.3	0.4	1.3	2.2	3.2
92.5°	8.2	7.8	7.5	7.4	7.4	7.5	7.6	7.7	7.6	7.5	7.4
95°	13.6	13.1	12.5	13.6	16.4	19.2	21.9	24.8	21.9	19.2	16.4
97.5°	17.1	15.8	14.4	17.7	25.5	33.4	41.3	49.1	41.3	33.4	25.5
100°	18.8	17.4	16.0	21.0	32.6	44.2	55.8	67.5	55.8	44.2	32.6
102.5°	46.5	58.5	70.5	77.8	80.3	82.7	85.2	87.6	85.2	82.7	80.3
105°	69.5	92.6	115.7	126.0	123.5	120.9	118.4	115.8	118.4	120.9	123.5
107.5°	88.0	115.7	143.5	156.3	154.3	152.2	150.2	148.1	150.2	152.2	154.3
110°	115.7	140.1	164.6	175.9	174.2	172.4	170.6	168.8	170.6	172.4	174.2





TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	180.3	186.4	192.4	194.7	193.1	191.5	189.9	188.3	189.9	191.5	193.1
115°	231.0	228.8	226.7	224.9	223.5	222.0	220.6	219.2	220.6	222.0	223.5
117.5°	257.5	256.1	254.7	253.1	251.5	249.9	248.3	246.6	248.3	249.9	251.5
120°	276.3	274.8	273.3	271.9	270.6	269.3	268.0	266.8	268.0	269.3	270.6
122.5°	294.0	292.4	290.7	289.2	287.8	286.5	285.2	283.8	285.2	286.5	287.8
125°	318.9	317.3	315.6	314.2	313.2	312.1	310.9	309.9	310.9	312.1	313.2
127.5°	341.9	340.7	339.5	338.3	337.1	335.8	334.7	333.4	334.7	335.8	337.1
130°	356.8	355.9	354.9	353.7	352.4	351.1	349.7	348.4	349.7	351.1	352.4
132.5°	371.1	370.1	369.3	368.2	367.0	365.9	364.7	363.6	364.7	365.9	367.0
135°	391.5	390.7	389.9	388.9	387.4	386.1	384.8	383.4	384.8	386.1	387.4
137.5°	409.9	409.0	408.1	407.2	406.4	405.4	404.4	403.5	404.4	405.4	406.4
140°	422.0	421.1	420.1	419.3	418.6	417.9	417.2	416.6	417.2	417.9	418.6
142.5°	432.9	431.9	430.9	430.0	429.4	428.7	428.2	427.6	428.2	428.7	429.4
145°	448.0	446.6	445.1	444.4	444.5	444.6	444.7	444.8	444.7	444.6	444.5
147.5°	461.9	460.5	459.1	458.5	458.9	459.1	459.5	459.8	459.5	459.1	458.9
150°	470.3	469.0	467.5	467.2	467.8	468.3	469.0	469.6	469.0	468.3	467.8
152.5°	478.0	476.7	475.5	475.1	475.8	476.4	477.2	477.8	477.2	476.4	475.8
155°	488.8	487.9	486.9	486.7	487.5	488.2	489.0	489.7	489.0	488.2	487.5
157.5°	498.0	497.3	496.6	496.6	497.2	497.8	498.5	499.1	498.5	497.8	497.2
160°	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6	504.1	503.6	503.1
162.5°	508.3	507.8	507.5	507.5	508.0	508.5	509.0	509.5	509.0	508.5	508.0
165°	514.4	514.2	513.9	514.0	514.5	515.1	515.6	516.0	515.6	515.1	514.5
167.5°	519.2	519.0	518.8	518.9	519.4	520.0	520.4	520.9	520.4	520.0	519.4
170°	521.8	521.7	521.5	521.7	522.2	522.6	523.2	523.7	523.2	522.6	522.2
172.5°	523.6	523.4	523.3	523.4	524.0	524.5	525.0	525.5	525.0	524.5	524.0
175°	525.7	525.5	525.3	525.5	526.1	526.6	527.3	527.9	527.3	526.6	526.1
177.5°	526.3	526.2	526.1	526.4	526.8	527.3	527.8	528.2	527.8	527.3	526.8
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	574.7	573.5	571.4	568.2	566.2	562.8	560.6	561.9	562.2	561.9	561.6
5°	559.3	555.0	549.1	543.4	538.1	532.5	529.2	527.9	525.0	523.4	522.5
7.5°	540.6	533.2	525.0	515.1	506.7	497.8	493.4	491.2	485.4	482.2	479.5
10°	526.6	515.1	506.8	493.8	485.9	474.4	466.5	466.7	458.8	454.3	451.1
12.5°	511.2	498.6	484.7	473.1	462.1	452.8	443.3	439.4	431.1	426.8	418.0
15°	485.7	470.9	456.4	440.6	429.4	415.0	401.3	384.4	370.9	359.1	355.9
17.5°	457.9	439.5	424.9	406.4	387.3	363.1	347.1	337.3	329.2	323.0	318.3
20°	438.7	420.1	404.5	376.6	350.8	334.4	322.7	315.1	306.7	300.0	296.3
22.5°	418.7	399.2	377.9	346.7	326.6	313.5	303.1	294.4	288.6	283.5	280.1
25°	390.1	368.8	333.8	312.4	296.1	282.3	275.1	269.8	263.8	256.6	253.4
27.5°	360.0	326.2	301.0	285.0	269.6	260.6	254.0	246.2	240.8	237.6	234.2
30°	337.4	303.6	284.0	266.5	255.7	245.7	238.0	233.5	228.3	222.8	220.6
32.5°	312.4	285.3	266.4	252.0	240.9	232.4	226.3	219.1	215.3	212.0	207.3
35°	281.2	260.6	243.4	231.8	221.1	214.3	207.2	203.0	196.1	193.2	191.5
37.5°	254.8	237.0	224.2	211.8	203.4	195.8	191.5	184.7	181.7	177.7	173.9
40°	239.8	222.4	210.1	199.9	190.6	184.9	179.5	174.0	169.5	167.7	163.1
42.5°	224.6	210.4	198.0	187.0	180.7	174.7	167.8	163.8	159.2	156.2	153.4
45°	203.6	191.0	180.5	171.4	164.4	158.2	153.7	147.0	144.5	138.6	136.1
47.5°	185.1	173.4	163.4	154.7	148.0	143.9	137.4	132.2	128.0	124.3	121.2
50°	172.0	162.2	152.5	144.8	138.8	132.9	126.2	123.6	117.1	115.2	113.4
52.5°	160.0	150.7	141.9	134.3	128.2	122.5	116.6	113.2	108.8	107.0	105.7
55°	143.2	134.3	125.8	119.1	113.1	107.2	103.5	99.2	97.2	95.8	94.2
57.5°	126.4	118.3	111.8	105.0	98.9	94.3	90.1	87.5	85.4	83.6	81.6
60°	115.7	108.0	102.1	95.8	89.5	85.7	82.5	79.4	77.0	74.1	73.3
62.5°	104.3	97.6	92.2	86.1	80.6	77.1	74.0	71.2	68.2	64.1	63.0
65°	88.7	83.5	77.8	72.7	67.9	64.4	59.9	56.7	55.5	55.1	54.9
67.5°	74.6	69.6	64.7	59.6	55.2	52.0	49.7	49.2	48.3	48.2	47.5
70°	65.2	60.5	55.7	50.8	46.5	46.0	45.2	44.3	43.3	43.0	42.5
72.5°	56.8	52.0	47.1	43.2	41.4	40.7	39.9	39.0	38.3	37.9	37.7
75°	43.5	39.1	35.8	34.4	33.4	32.8	31.6	31.0	30.6	30.0	29.8
77.5°	31.4	28.8	27.4	26.5	25.4	24.8	24.1	23.5	23.0	22.9	22.6
80°	23.9	22.6	21.7	20.4	20.1	19.3	19.1	18.5	18.6	18.0	18.0
82.5°	18.5	17.0	16.1	15.6	15.2	14.5	14.4	14.1	14.1	13.6	13.6
85°	9.5	9.1	8.7	8.3	8.3	7.7	7.9	7.7	7.7	7.3	7.1
87.5°	3.9	3.9	3.7	3.8	4.0	3.9	4.0	3.9	4.0	4.1	4.0
90°	4.1	4.9	5.6	6.2	7.0	7.6	8.0	8.5	8.9	9.3	9.6
92.5°	7.4	7.5	7.8	8.2	8.5	8.8	9.1	9.3	9.5	9.7	9.9
95°	13.6	12.5	13.1	13.6	14.3	14.9	15.2	15.7	16.1	16.6	16.8
97.5°	17.7	14.4	15.8	17.1	18.5	19.9	20.2	20.6	21.0	21.2	21.5
100°	21.0	16.0	17.4	18.8	20.2	21.8	22.4	23.1	23.7	24.4	24.9
102.5°	77.8	70.5	58.5	46.5	34.4	22.3	23.2	24.1	25.0	25.9	26.4
105°	126.0	115.7	92.6	69.5	46.4	23.3	24.2	25.1	26.0	27.0	27.6
107.5°	156.3	143.5	115.7	88.0	60.3	32.5	31.6	30.7	29.7	28.7	28.4
110°	175.9	164.6	140.1	115.7	91.1	66.7	58.2	49.8	41.3	32.8	28.7



TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	194.7	192.4	186.4	180.3	174.2	168.3	137.3	106.5	75.5	44.7	29.3
115°	224.9	226.7	228.8	231.0	233.0	235.1	195.9	156.8	117.5	78.3	55.6
117.5°	253.1	254.7	256.1	257.5	259.0	260.5	251.0	241.5	232.0	222.5	207.8
120°	271.9	273.3	274.8	276.3	277.9	279.4	280.4	281.4	282.4	283.5	278.2
122.5°	289.2	290.7	292.4	294.0	295.7	297.4	298.0	298.5	299.2	299.8	299.0
125°	314.2	315.6	317.3	318.9	320.5	322.1	322.6	323.2	323.9	324.4	324.9
127.5°	338.3	339.5	340.7	341.9	343.1	344.3	345.2	346.1	346.9	347.8	348.2
130°	353.7	354.9	355.9	356.8	357.8	358.6	359.5	360.5	361.4	362.4	362.8
132.5°	368.2	369.3	370.1	371.1	372.0	373.0	373.8	374.6	375.3	376.1	376.5
135°	388.9	389.9	390.7	391.5	392.2	393.0	393.8	394.7	395.5	396.4	396.6
137.5°	407.2	408.1	409.0	409.9	410.7	411.6	412.4	413.3	414.1	414.9	415.2
140°	419.3	420.1	421.1	422.0	422.8	423.8	424.5	425.3	426.1	426.9	427.0
142.5°	430.0	430.9	431.9	432.9	434.0	435.1	435.8	436.5	437.2	437.9	438.0
145°	444.4	445.1	446.6	448.0	449.4	450.8	451.5	452.1	452.6	453.3	453.3
147.5°	458.5	459.1	460.5	461.9	463.3	464.8	465.2	465.7	466.1	466.5	466.5
150°	467.2	467.5	469.0	470.3	471.6	473.0	473.5	474.0	474.5	475.0	475.1
152.5°	475.1	475.5	476.7	478.0	479.3	480.6	481.1	481.6	482.1	482.7	482.6
155°	486.7	486.9	487.9	488.8	489.9	490.9	491.4	492.0	492.4	492.9	492.8
157.5°	496.6	496.6	497.3	498.0	498.7	499.4	500.0	500.6	501.1	501.8	501.7
160°	502.6	502.6	503.1	503.6	504.1	504.6	505.2	505.6	506.1	506.7	506.6
162.5°	507.5	507.5	507.8	508.3	508.7	509.2	509.8	510.3	511.0	511.5	511.4
165°	514.0	513.9	514.2	514.4	514.7	514.9	515.5	516.1	516.7	517.3	517.3
167.5°	518.9	518.8	519.0	519.2	519.5	519.7	520.3	520.9	521.5	522.1	522.0
170°	521.7	521.5	521.7	521.8	522.0	522.2	522.7	523.3	524.0	524.5	524.4
172.5°	523.4	523.3	523.4	523.6	523.8	524.0	524.6	525.1	525.8	526.4	526.3
175°	525.5	525.3	525.5	525.7	525.8	525.9	526.6	527.2	527.7	528.3	528.2
177.5°	526.4	526.1	526.2	526.3	526.4	526.4	526.9	527.4	527.8	528.3	528.2
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	559.8	560.1	559.6	559.9	559.6	560.1	559.8	561.6	561.9	562.2	561.9
5°	521.6	519.2	518.7	518.2	518.7	519.2	521.6	522.5	523.4	525.0	527.9
7.5°	476.0	475.6	474.6	473.1	474.6	475.6	476.0	479.5	482.2	485.4	491.2
10°	446.7	445.6	445.4	444.0	445.4	445.6	446.7	451.1	454.3	458.8	466.7
12.5°	412.2	405.7	405.1	401.5	405.1	405.7	412.2	418.0	426.8	431.1	439.4
15°	351.1	349.8	345.7	343.1	345.7	349.8	351.1	355.9	359.1	370.9	384.4
17.5°	316.0	312.0	310.8	310.2	310.8	312.0	316.0	318.3	323.0	329.2	337.3
20°	293.5	289.9	289.3	288.8	289.3	289.9	293.5	296.3	300.0	306.7	315.1
22.5°	277.9	274.1	272.6	271.3	272.6	274.1	277.9	280.1	283.5	288.6	294.4
25°	251.4	249.9	249.1	248.7	249.1	249.9	251.4	253.4	256.6	263.8	269.8
27.5°	230.6	227.5	226.9	225.8	226.9	227.5	230.6	234.2	237.6	240.8	246.2
30°	218.7	217.8	216.3	215.1	216.3	217.8	218.7	220.6	222.8	228.3	233.5
32.5°	204.8	203.9	202.7	202.2	202.7	203.9	204.8	207.3	212.0	215.3	219.1
35°	189.4	186.5	185.3	183.5	185.3	186.5	189.4	191.5	193.2	196.1	203.0
37.5°	173.1	171.6	169.9	170.5	169.9	171.6	173.1	173.9	177.7	181.7	184.7
40°	160.4	159.4	159.0	158.8	159.0	159.4	160.4	163.1	167.7	169.5	174.0
42.5°	150.3	147.6	146.5	146.5	146.5	147.6	150.3	153.4	156.2	159.2	163.8
45°	135.1	132.5	130.6	130.8	130.6	132.5	135.1	136.1	138.6	144.5	147.0
47.5°	119.5	119.4	118.2	118.6	118.2	119.4	119.5	121.2	124.3	128.0	132.2
50°	112.0	110.8	109.9	110.2	109.9	110.8	112.0	113.4	115.2	117.1	123.6
52.5°	104.9	103.8	103.2	104.1	103.2	103.8	104.9	105.7	107.0	108.8	113.2
55°	93.2	91.9	91.8	91.6	91.8	91.9	93.2	94.2	95.8	97.2	99.2
57.5°	80.1	79.3	78.0	77.6	78.0	79.3	80.1	81.6	83.6	85.4	87.5
60°	70.7	69.1	67.1	66.9	67.1	69.1	70.7	73.3	74.1	77.0	79.4
62.5°	62.1	61.8	61.3	61.3	61.3	61.8	62.1	63.0	64.1	68.2	71.2
65°	54.5	54.3	54.5	54.7	54.5	54.3	54.5	54.9	55.1	55.5	56.7
67.5°	47.4	47.1	46.7	46.9	46.7	47.1	47.4	47.5	48.2	48.3	49.2
70°	42.1	41.9	41.7	41.7	41.7	41.9	42.1	42.5	43.0	43.3	44.3
72.5°	36.9	36.9	36.7	36.6	36.7	36.9	36.9	37.7	37.9	38.3	39.0
75°	29.6	29.2	29.2	29.2	29.2	29.2	29.6	29.8	30.0	30.6	31.0
77.5°	22.6	22.3	22.1	21.9	22.1	22.3	22.6	22.6	22.9	23.0	23.5
80°	17.8	17.7	17.4	17.4	17.4	17.7	17.8	18.0	18.0	18.6	18.5
82.5°	13.6	13.4	13.4	13.2	13.4	13.4	13.6	13.6	13.6	14.1	14.1
85°	7.3	7.5	7.3	7.7	7.3	7.5	7.3	7.1	7.3	7.7	7.7
87.5°	4.1	3.9	4.1	4.0	4.1	3.9	4.1	4.0	4.1	4.0	3.9
90°	9.8	10.0	10.2	10.3	10.2	10.0	9.8	9.6	9.3	8.9	8.5
92.5°	10.0	10.1	10.2	10.3	10.2	10.1	10.0	9.9	9.7	9.5	9.3
95°	16.7	16.6	16.5	16.4	16.5	16.6	16.7	16.8	16.6	16.1	15.7
97.5°	21.6	21.7	21.8	21.8	21.8	21.7	21.6	21.5	21.2	21.0	20.6
100°	25.1	25.2	25.3	25.5	25.3	25.2	25.1	24.9	24.4	23.7	23.1
102.5°	26.7	26.9	27.1	27.4	27.1	26.9	26.7	26.4	25.9	25.0	24.1
105°	27.9	28.3	28.6	29.0	28.6	28.3	27.9	27.6	27.0	26.0	25.1
107.5°	28.8	29.2	29.4	29.8	29.4	29.2	28.8	28.4	28.7	29.7	30.7
110°	29.1	29.4	29.8	30.1	29.8	29.4	29.1	28.7	32.8	41.3	49.8



TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	29.6	29.9	30.1	30.4	30.1	29.9	29.6	29.3	44.7	75.5	106.5
115°	49.6	43.4	37.4	31.2	37.4	43.4	49.6	55.6	78.3	117.5	156.8
117.5°	187.7	167.6	147.7	127.6	147.7	167.6	187.7	207.8	222.5	232.0	241.5
120°	266.8	255.4	243.9	232.5	243.9	255.4	266.8	278.2	283.5	282.4	281.4
122.5°	296.8	294.5	292.3	290.1	292.3	294.5	296.8	299.0	299.8	299.2	298.5
125°	325.1	325.4	325.7	325.8	325.7	325.4	325.1	324.9	324.4	323.9	323.2
127.5°	348.3	348.3	348.4	348.4	348.4	348.3	348.3	348.2	347.8	346.9	346.1
130°	362.7	362.7	362.6	362.5	362.6	362.7	362.7	362.8	362.4	361.4	360.5
132.5°	376.4	376.3	376.3	376.2	376.3	376.3	376.4	376.5	376.1	375.3	374.6
135°	396.5	396.4	396.2	396.0	396.2	396.4	396.5	396.6	396.4	395.5	394.7
137.5°	414.9	414.6	414.4	414.0	414.4	414.6	414.9	415.2	414.9	414.1	413.3
140°	426.6	426.1	425.8	425.3	425.8	426.1	426.6	427.0	426.9	426.1	425.3
142.5°	437.6	437.2	436.8	436.3	436.8	437.2	437.6	438.0	437.9	437.2	436.5
145°	452.9	452.5	452.1	451.7	452.1	452.5	452.9	453.3	453.3	452.6	452.1
147.5°	466.2	465.8	465.5	465.1	465.5	465.8	466.2	466.5	466.5	466.1	465.7
150°	474.7	474.2	473.8	473.4	473.8	474.2	474.7	475.1	475.0	474.5	474.0
152.5°	482.1	481.5	480.9	480.4	480.9	481.5	482.1	482.6	482.7	482.1	481.6
155°	492.1	491.5	490.8	490.2	490.8	491.5	492.1	492.8	492.9	492.4	492.0
157.5°	501.1	500.3	499.7	499.1	499.7	500.3	501.1	501.7	501.8	501.1	500.6
160°	506.0	505.4	504.8	504.3	504.8	505.4	506.0	506.6	506.7	506.1	505.6
162.5°	510.7	510.0	509.3	508.5	509.3	510.0	510.7	511.4	511.5	511.0	510.3
165°	516.7	516.1	515.5	514.9	515.5	516.1	516.7	517.3	517.3	516.7	516.1
167.5°	521.2	520.5	519.7	519.0	519.7	520.5	521.2	522.0	522.1	521.5	520.9
170°	523.7	522.9	522.2	521.4	522.2	522.9	523.7	524.4	524.5	524.0	523.3
172.5°	525.5	524.8	524.0	523.3	524.0	524.8	525.5	526.3	526.4	525.8	525.1
175°	527.4	526.6	525.7	524.9	525.7	526.6	527.4	528.2	528.3	527.7	527.2
177.5°	527.6	527.0	526.4	525.8	526.4	527.0	527.6	528.2	528.3	527.8	527.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	560.6	562.8	566.2	568.2	571.4	573.5	574.7	576.8	577.9	582.0	586.2
5°	529.2	532.5	538.1	543.4	549.1	555.0	559.3	564.1	568.6	576.2	584.3
7.5°	493.4	497.8	506.7	515.1	525.0	533.2	540.6	548.8	556.2	567.3	578.8
10°	466.5	474.4	485.9	493.8	506.8	515.1	526.6	535.7	546.1	560.7	573.6
12.5°	443.3	452.8	462.1	473.1	484.7	498.6	511.2	523.0	535.2	550.3	565.5
15°	401.3	415.0	429.4	440.6	456.4	470.9	485.7	501.5	516.5	534.6	554.4
17.5°	347.1	363.1	387.3	406.4	424.9	439.5	457.9	477.0	494.6	516.4	538.5
20°	322.7	334.4	350.8	376.6	404.5	420.1	438.7	459.8	480.0	503.7	527.4
22.5°	303.1	313.5	326.6	346.7	377.9	399.2	418.7	440.1	463.5	487.7	514.0
25°	275.1	282.3	296.1	312.4	333.8	368.8	390.1	411.6	437.1	463.1	493.0
27.5°	254.0	260.6	269.6	285.0	301.0	326.2	360.0	383.4	408.8	438.0	469.1
30°	238.0	245.7	255.7	266.5	284.0	303.6	337.4	364.6	389.7	419.7	452.9
32.5°	226.3	232.4	240.9	252.0	266.4	285.3	312.4	345.3	369.8	401.4	436.0
35°	207.2	214.3	221.1	231.8	243.4	260.6	281.2	316.4	340.7	371.8	406.7
37.5°	191.5	195.8	203.4	211.8	224.2	237.0	254.8	286.3	312.6	343.2	378.9
40°	179.5	184.9	190.6	199.9	210.1	222.4	239.8	263.3	293.5	323.5	358.3
42.5°	167.8	174.7	180.7	187.0	198.0	210.4	224.6	244.5	275.4	303.7	337.6
45°	153.7	158.2	164.4	171.4	180.5	191.0	203.6	221.0	250.6	275.1	306.8
47.5°	137.4	143.9	148.0	154.7	163.4	173.4	185.1	200.2	224.1	247.1	276.6
50°	126.2	132.9	138.8	144.8	152.5	162.2	172.0	186.5	205.8	229.9	257.4
52.5°	116.6	122.5	128.2	134.3	141.9	150.7	160.0	172.8	189.2	211.4	238.2
55°	103.5	107.2	113.1	119.1	125.8	134.3	143.2	153.9	168.1	186.7	208.4
57.5°	90.1	94.3	98.9	105.0	111.8	118.3	126.4	136.1	147.2	164.1	182.6
60°	82.5	85.7	89.5	95.8	102.1	108.0	115.7	123.8	134.3	148.9	164.7
62.5°	74.0	77.1	80.6	86.1	92.2	97.6	104.3	112.9	121.8	135.1	148.9
65°	59.9	64.4	67.9	72.7	77.8	83.5	88.7	95.6	103.5	114.0	126.4
67.5°	49.7	52.0	55.2	59.6	64.7	69.6	74.6	80.0	86.9	95.0	104.8
70°	45.2	46.0	46.5	50.8	55.7	60.5	65.2	70.3	76.2	82.8	91.3
72.5°	39.9	40.7	41.4	43.2	47.1	52.0	56.8	60.5	66.1	71.7	78.6
75°	31.6	32.8	33.4	34.4	35.8	39.1	43.5	47.2	50.5	54.7	60.2
77.5°	24.1	24.8	25.4	26.5	27.4	28.8	31.4	34.6	37.7	40.1	43.9
80°	19.1	19.3	20.1	20.4	21.7	22.6	23.9	26.6	29.6	30.6	33.3
82.5°	14.4	14.5	15.2	15.6	16.1	17.0	18.5	19.3	21.7	23.0	24.6
85°	7.9	7.7	8.3	8.3	8.7	9.1	9.5	10.5	11.1	12.8	13.2
87.5°	4.0	3.9	4.0	3.8	3.7	3.9	3.9	3.8	4.0	4.3	4.8
90°	8.0	7.6	7.0	6.2	5.6	4.9	4.1	3.2	2.2	1.3	0.4
92.5°	9.1	8.8	8.5	8.2	7.8	7.5	7.4	7.4	7.5	7.6	7.7
95°	15.2	14.9	14.3	13.6	13.1	12.5	13.6	16.4	19.2	21.9	24.8
97.5°	20.2	19.9	18.5	17.1	15.8	14.4	17.7	25.5	33.4	41.3	49.1
100°	22.4	21.8	20.2	18.8	17.4	16.0	21.0	32.6	44.2	55.8	67.5
102.5°	23.2	22.3	34.4	46.5	58.5	70.5	77.8	80.3	82.7	85.2	87.6
105°	24.2	23.3	46.4	69.5	92.6	115.7	126.0	123.5	120.9	118.4	115.8
107.5°	31.6	32.5	60.3	88.0	115.7	143.5	156.3	154.3	152.2	150.2	148.1
110°	58.2	66.7	91.1	115.7	140.1	164.6	175.9	174.2	172.4	170.6	168.8



TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	137.3	168.3	174.2	180.3	186.4	192.4	194.7	193.1	191.5	189.9	188.3
115°	195.9	235.1	233.0	231.0	228.8	226.7	224.9	223.5	222.0	220.6	219.2
117.5°	251.0	260.5	259.0	257.5	256.1	254.7	253.1	251.5	249.9	248.3	246.6
120°	280.4	279.4	277.9	276.3	274.8	273.3	271.9	270.6	269.3	268.0	266.8
122.5°	298.0	297.4	295.7	294.0	292.4	290.7	289.2	287.8	286.5	285.2	283.8
125°	322.6	322.1	320.5	318.9	317.3	315.6	314.2	313.2	312.1	310.9	309.9
127.5°	345.2	344.3	343.1	341.9	340.7	339.5	338.3	337.1	335.8	334.7	333.4
130°	359.5	358.6	357.8	356.8	355.9	354.9	353.7	352.4	351.1	349.7	348.4
132.5°	373.8	373.0	372.0	371.1	370.1	369.3	368.2	367.0	365.9	364.7	363.6
135°	393.8	393.0	392.2	391.5	390.7	389.9	388.9	387.4	386.1	384.8	383.4
137.5°	412.4	411.6	410.7	409.9	409.0	408.1	407.2	406.4	405.4	404.4	403.5
140°	424.5	423.8	422.8	422.0	421.1	420.1	419.3	418.6	417.9	417.2	416.6
142.5°	435.8	435.1	434.0	432.9	431.9	430.9	430.0	429.4	428.7	428.2	427.6
145°	451.5	450.8	449.4	448.0	446.6	445.1	444.4	444.5	444.6	444.7	444.8
147.5°	465.2	464.8	463.3	461.9	460.5	459.1	458.5	458.9	459.1	459.5	459.8
150°	473.5	473.0	471.6	470.3	469.0	467.5	467.2	467.8	468.3	469.0	469.6
152.5°	481.1	480.6	479.3	478.0	476.7	475.5	475.1	475.8	476.4	477.2	477.8
155°	491.4	490.9	489.9	488.8	487.9	486.9	486.7	487.5	488.2	489.0	489.7
157.5°	500.0	499.4	498.7	498.0	497.3	496.6	496.6	497.2	497.8	498.5	499.1
160°	505.2	504.6	504.1	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6
162.5°	509.8	509.2	508.7	508.3	507.8	507.5	507.5	508.0	508.5	509.0	509.5
165°	515.5	514.9	514.7	514.4	514.2	513.9	514.0	514.5	515.1	515.6	516.0
167.5°	520.3	519.7	519.5	519.2	519.0	518.8	518.9	519.4	520.0	520.4	520.9
170°	522.7	522.2	522.0	521.8	521.7	521.5	521.7	522.2	522.6	523.2	523.7
172.5°	524.6	524.0	523.8	523.6	523.4	523.3	523.4	524.0	524.5	525.0	525.5
175°	526.6	525.9	525.8	525.7	525.5	525.3	525.5	526.1	526.6	527.3	527.9
177.5°	526.9	526.4	526.4	526.3	526.2	526.1	526.4	526.8	527.3	527.8	528.2
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	586.4	586.8	590.0	591.6	594.4	595.6	596.9	596.6	596.6	597.2	601.7
5°	587.6	591.7	597.7	603.6	609.3	614.1	617.4	620.6	621.9	627.7	632.9
7.5°	585.5	593.0	603.0	612.0	622.7	631.1	638.0	644.4	648.6	657.2	665.9
10°	582.7	593.3	604.6	616.2	631.0	642.1	653.4	662.2	664.9	677.7	685.0
12.5°	577.2	591.3	605.7	620.7	635.2	650.5	663.0	671.7	681.7	693.1	706.6
15°	569.0	585.1	604.0	623.2	643.9	662.5	675.9	691.1	702.0	714.6	726.4
17.5°	557.1	578.0	601.9	624.2	648.1	668.1	686.5	701.1	708.7	716.0	717.6
20°	547.7	570.2	598.3	624.6	648.5	671.6	689.9	702.0	704.1	704.3	693.6
22.5°	537.5	562.9	592.4	619.3	647.9	673.6	687.8	692.9	684.9	671.2	650.4
25°	518.7	548.1	582.4	613.1	644.4	668.6	673.5	664.4	636.2	606.6	569.2
27.5°	498.4	531.5	568.1	602.4	635.6	650.7	640.2	607.3	556.6	512.5	459.1
30°	483.5	520.6	556.6	594.9	625.7	632.1	608.1	559.6	500.5	434.1	380.8
32.5°	466.5	505.3	544.9	584.5	610.3	604.0	564.2	504.5	435.2	369.9	319.6
35°	442.2	482.2	525.0	564.7	581.1	553.8	494.2	416.6	345.7	284.8	250.1
37.5°	414.1	457.8	502.2	538.7	537.5	492.0	410.8	330.7	271.2	235.1	210.4
40°	394.1	438.4	486.3	517.1	504.0	444.6	356.7	281.2	237.6	208.8	190.8
42.5°	375.1	419.4	467.1	491.5	468.6	395.7	308.1	248.9	212.9	190.6	175.9
45°	342.5	389.3	433.5	447.0	406.1	325.7	249.1	206.2	182.3	165.7	155.6
47.5°	310.7	356.8	397.1	397.3	342.0	264.1	210.2	178.4	158.0	145.2	137.9
50°	291.2	335.0	368.8	363.6	300.8	235.0	188.0	160.6	143.7	133.7	126.0
52.5°	269.4	311.8	341.2	326.2	265.9	206.8	168.0	145.1	131.0	122.3	115.5
55°	237.6	275.3	296.0	273.2	217.0	172.0	142.0	123.9	113.4	106.1	100.2
57.5°	206.3	237.5	250.4	224.0	178.7	142.6	120.1	106.6	96.1	90.9	87.8
60°	186.7	213.3	222.4	193.2	155.3	124.8	106.4	93.8	86.1	82.7	79.6
62.5°	167.5	189.1	192.9	166.2	135.5	109.2	93.4	82.8	77.7	74.4	71.5
65°	138.9	154.5	152.8	131.3	107.2	86.7	75.2	68.7	64.8	60.2	55.1
67.5°	114.4	123.9	118.2	102.1	81.8	67.4	59.8	54.9	50.1	45.7	44.6
70°	98.8	104.3	98.3	83.5	67.1	56.5	50.5	44.6	41.7	40.8	38.9
72.5°	83.9	85.9	79.3	66.6	54.6	46.8	40.8	37.6	36.0	35.2	34.1
75°	63.0	61.6	55.9	46.0	37.9	32.6	30.8	29.6	28.5	27.7	27.1
77.5°	44.2	42.2	37.1	30.6	26.4	23.9	22.7	22.1	21.7	21.2	20.6
80°	33.3	31.8	26.8	21.8	20.1	18.8	18.2	17.4	17.4	17.0	16.4
82.5°	24.3	22.7	18.3	16.1	15.1	14.3	13.8	13.4	13.2	13.3	12.8
85°	12.8	10.3	9.1	8.7	8.1	7.7	7.9	7.5	7.5	7.5	7.3
87.5°	4.2	3.6	3.6	3.6	3.9	4.0	4.0	4.1	4.5	4.4	4.6
90°	1.3	2.2	3.2	4.1	4.9	5.6	6.2	7.0	7.6	8.0	8.5
92.5°	7.6	7.5	7.4	7.4	7.5	7.8	8.2	8.5	8.8	9.1	9.3
95°	21.9	19.2	16.4	13.6	12.5	13.1	13.6	14.3	14.9	15.2	15.7
97.5°	41.3	33.4	25.5	17.7	14.4	15.8	17.1	18.5	19.9	20.2	20.6
100°	55.8	44.2	32.6	21.0	16.0	17.4	18.8	20.2	21.8	22.4	23.1
102.5°	85.2	82.7	80.3	77.8	70.5	58.5	46.5	34.4	22.3	23.2	24.1
105°	118.4	120.9	123.5	126.0	115.7	92.6	69.5	46.4	23.3	24.2	25.1
107.5°	150.2	152.2	154.3	156.3	143.5	115.7	88.0	60.3	32.5	31.6	30.7
110°	170.6	172.4	174.2	175.9	164.6	140.1	115.7	91.1	66.7	58.2	49.8





TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	189.9	191.5	193.1	194.7	192.4	186.4	180.3	174.2	168.3	137.3	106.5
115°	220.6	222.0	223.5	224.9	226.7	228.8	231.0	233.0	235.1	195.9	156.8
117.5°	248.3	249.9	251.5	253.1	254.7	256.1	257.5	259.0	260.5	251.0	241.5
120°	268.0	269.3	270.6	271.9	273.3	274.8	276.3	277.9	279.4	280.4	281.4
122.5°	285.2	286.5	287.8	289.2	290.7	292.4	294.0	295.7	297.4	298.0	298.5
125°	310.9	312.1	313.2	314.2	315.6	317.3	318.9	320.5	322.1	322.6	323.2
127.5°	334.7	335.8	337.1	338.3	339.5	340.7	341.9	343.1	344.3	345.2	346.1
130°	349.7	351.1	352.4	353.7	354.9	355.9	356.8	357.8	358.6	359.5	360.5
132.5°	364.7	365.9	367.0	368.2	369.3	370.1	371.1	372.0	373.0	373.8	374.6
135°	384.8	386.1	387.4	388.9	389.9	390.7	391.5	392.2	393.0	393.8	394.7
137.5°	404.4	405.4	406.4	407.2	408.1	409.0	409.9	410.7	411.6	412.4	413.3
140°	417.2	417.9	418.6	419.3	420.1	421.1	422.0	422.8	423.8	424.5	425.3
142.5°	428.2	428.7	429.4	430.0	430.9	431.9	432.9	434.0	435.1	435.8	436.5
145°	444.7	444.6	444.5	444.4	445.1	446.6	448.0	449.4	450.8	451.5	452.1
147.5°	459.5	459.1	458.9	458.5	459.1	460.5	461.9	463.3	464.8	465.2	465.7
150°	469.0	468.3	467.8	467.2	467.5	469.0	470.3	471.6	473.0	473.5	474.0
152.5°	477.2	476.4	475.8	475.1	475.5	476.7	478.0	479.3	480.6	481.1	481.6
155°	489.0	488.2	487.5	486.7	486.9	487.9	488.8	489.9	490.9	491.4	492.0
157.5°	498.5	497.8	497.2	496.6	496.6	497.3	498.0	498.7	499.4	500.0	500.6
160°	504.1	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6	505.2	505.6
162.5°	509.0	508.5	508.0	507.5	507.5	507.8	508.3	508.7	509.2	509.8	510.3
165°	515.6	515.1	514.5	514.0	513.9	514.2	514.4	514.7	514.9	515.5	516.1
167.5°	520.4	520.0	519.4	518.9	518.8	519.0	519.2	519.5	519.7	520.3	520.9
170°	523.2	522.6	522.2	521.7	521.5	521.7	521.8	522.0	522.2	522.7	523.3
172.5°	525.0	524.5	524.0	523.4	523.3	523.4	523.6	523.8	524.0	524.6	525.1
175°	527.3	526.6	526.1	525.5	525.3	525.5	525.7	525.8	525.9	526.6	527.2
177.5°	527.8	527.3	526.8	526.4	526.1	526.2	526.3	526.4	526.4	526.9	527.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	603.3	605.5	606.5	606.5	607.6	607.1	606.6
5°	638.0	641.9	642.7	646.3	649.0	648.2	648.5
7.5°	672.5	678.7	684.8	687.6	688.0	689.6	690.3
10°	693.8	698.8	708.3	706.9	714.0	718.1	711.4
12.5°	714.2	721.0	727.6	729.4	733.4	734.8	732.1
15°	732.6	736.3	736.6	735.7	736.9	735.8	732.0
17.5°	715.4	709.4	697.5	691.8	687.3	680.6	678.0
20°	686.9	669.4	649.2	641.1	631.6	613.0	617.4
22.5°	625.3	605.5	585.1	561.5	550.2	532.5	531.5
25°	529.5	495.3	457.5	431.2	415.8	398.2	390.5
27.5°	411.7	368.5	337.7	322.1	307.8	293.9	293.3
30°	334.2	301.8	277.9	264.6	255.8	249.9	251.2
32.5°	281.7	259.5	243.3	232.3	225.9	221.4	221.3
35°	230.3	215.1	204.7	200.1	195.5	192.3	192.4
37.5°	197.1	188.0	182.2	177.1	174.2	172.5	171.7
40°	180.0	172.5	168.1	165.1	162.6	160.4	160.0
42.5°	166.7	160.4	156.0	153.6	151.3	149.7	149.4
45°	147.8	142.8	138.8	136.1	135.1	133.7	133.7
47.5°	131.5	126.5	123.4	121.7	120.0	119.0	119.0
50°	120.6	116.6	113.9	112.8	111.4	110.8	110.6
52.5°	110.7	107.7	105.8	105.0	104.4	103.7	103.8
55°	97.2	95.6	94.8	94.2	93.2	91.9	92.7
57.5°	86.0	84.5	82.4	80.4	79.5	78.6	79.0
60°	78.0	75.2	72.3	70.1	69.5	67.7	67.7
62.5°	67.9	63.9	60.5	59.2	58.6	57.8	57.6
65°	52.3	50.6	49.8	49.0	48.6	48.6	48.2
67.5°	43.3	42.6	41.7	41.6	41.2	41.0	40.9
70°	38.3	37.5	37.1	36.8	36.5	36.6	36.0
72.5°	33.4	32.8	32.7	32.2	31.9	31.9	31.5
75°	26.3	26.3	26.1	25.9	25.5	25.3	25.5
77.5°	20.2	20.3	20.0	19.9	19.9	19.9	19.7
80°	16.2	16.4	16.2	16.0	15.8	16.0	15.8
82.5°	12.8	12.5	12.5	12.4	12.4	12.3	12.2
85°	7.3	7.5	7.3	7.1	7.1	7.1	7.3
87.5°	4.5	4.6	4.6	4.7	4.7	4.8	4.6
90°	8.9	9.3	9.6	9.8	10.0	10.2	10.3
92.5°	9.5	9.7	9.9	10.0	10.1	10.2	10.3
95°	16.1	16.6	16.8	16.7	16.6	16.5	16.4
97.5°	21.0	21.2	21.5	21.6	21.7	21.8	21.8
100°	23.7	24.4	24.9	25.1	25.2	25.3	25.5
102.5°	25.0	25.9	26.4	26.7	26.9	27.1	27.4
105°	26.0	27.0	27.6	27.9	28.3	28.6	29.0
107.5°	29.7	28.7	28.4	28.8	29.2	29.4	29.8
110°	41.3	32.8	28.7	29.1	29.4	29.8	30.1



TEST NUMBER: P331765-940

CATALOG NUMBER: S122RDIW-S290D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	75.5	44.7	29.3	29.6	29.9	30.1	30.4
115°	117.5	78.3	55.6	49.6	43.4	37.4	31.2
117.5°	232.0	222.5	207.8	187.7	167.6	147.7	127.6
120°	282.4	283.5	278.2	266.8	255.4	243.9	232.5
122.5°	299.2	299.8	299.0	296.8	294.5	292.3	290.1
125°	323.9	324.4	324.9	325.1	325.4	325.7	325.8
127.5°	346.9	347.8	348.2	348.3	348.3	348.4	348.4
130°	361.4	362.4	362.8	362.7	362.7	362.6	362.5
132.5°	375.3	376.1	376.5	376.4	376.3	376.3	376.2
135°	395.5	396.4	396.6	396.5	396.4	396.2	396.0
137.5°	414.1	414.9	415.2	414.9	414.6	414.4	414.0
140°	426.1	426.9	427.0	426.6	426.1	425.8	425.3
142.5°	437.2	437.9	438.0	437.6	437.2	436.8	436.3
145°	452.6	453.3	453.3	452.9	452.5	452.1	451.7
147.5°	466.1	466.5	466.5	466.2	465.8	465.5	465.1
150°	474.5	475.0	475.1	474.7	474.2	473.8	473.4
152.5°	482.1	482.7	482.6	482.1	481.5	480.9	480.4
155°	492.4	492.9	492.8	492.1	491.5	490.8	490.2
157.5°	501.1	501.8	501.7	501.1	500.3	499.7	499.1
160°	506.1	506.7	506.6	506.0	505.4	504.8	504.3
162.5°	511.0	511.5	511.4	510.7	510.0	509.3	508.5
165°	516.7	517.3	517.3	516.7	516.1	515.5	514.9
167.5°	521.5	522.1	522.0	521.2	520.5	519.7	519.0
170°	524.0	524.5	524.4	523.7	522.9	522.2	521.4
172.5°	525.8	526.4	526.3	525.5	524.8	524.0	523.3
175°	527.7	528.3	528.2	527.4	526.6	525.7	524.9
177.5°	527.8	528.3	528.2	527.6	527.0	526.4	525.8
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7

(END OF REPORT)