

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: P332395-830

Luminaire Tested: **S123RDIW-S340D755U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332395-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S340D755U830-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 755 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3747.3 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

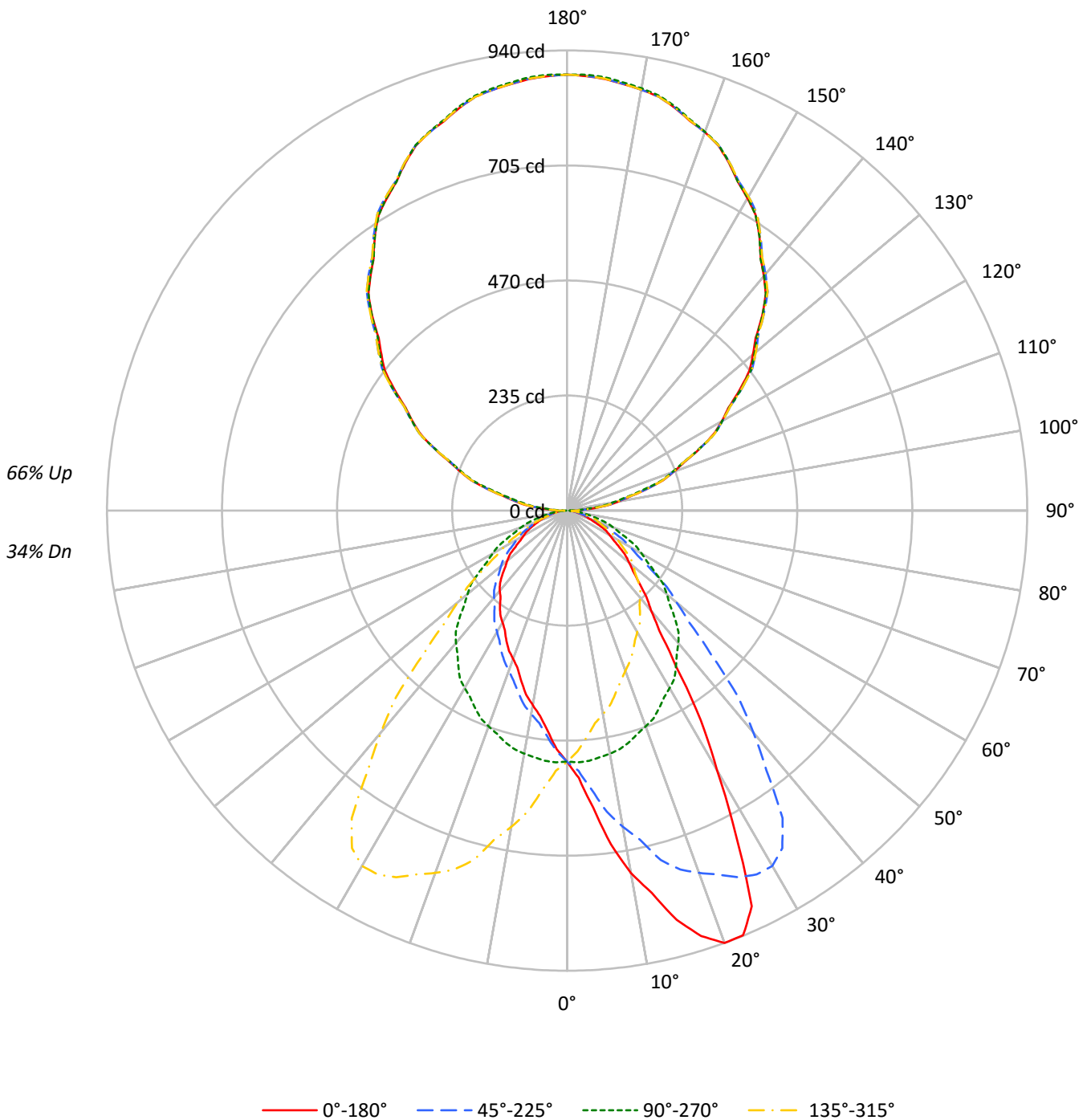
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42	34				
1	95	91	87	84	85	82	79	76	66	64	62	51	50	48	37	37	36	30				
2	86	79	74	69	78	72	67	63	58	55	52	45	43	41	33	32	31	25				
3	79	70	63	58	71	64	58	53	52	47	44	40	37	35	30	28	27	22				
4	72	62	55	49	65	57	50	45	46	41	38	36	33	30	27	25	23	19				
5	67	56	48	42	60	51	44	39	41	36	33	33	29	26	24	22	20	17				
6	61	50	42	37	55	45	39	34	37	32	29	29	26	23	22	20	18	15				
7	57	45	37	32	51	41	34	30	34	29	25	27	23	21	20	18	16	13				
8	53	41	33	28	48	37	31	26	31	26	22	25	21	18	19	16	15	12				
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	17	15	13	11				
10	46	34	27	23	41	31	25	21	26	21	18	21	17	15	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5521	5521	5521	5521
5°	6582	5545	4883	5545
10°	8218	5513	4411	5513
15°	9646	5457	4023	5457
20°	10766	5372	3692	5372
25°	10594	5284	3489	5284
30°	7615	5203	3280	5203
35°	5084	5096	3144	5096
40°	3746	4967	3006	4967
45°	3142	4743	2868	4743
50°	2773	4449	2678	4449
55°	2432	4112	2415	4112
60°	2166	3791	2211	3791
65°	1900	3446	2058	3446
70°	1492	3138	1882	3138
75°	1314	2741	1718	2741
80°	1147	2325	1686	2325
85°	914	1877	1791	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.3
10°-20°	157.6	4.2
20°-30°	247.6	6.6
30°-40°	258.3	6.9
40°-50°	221.1	5.9
50°-60°	168.5	4.5
60°-70°	108.0	2.9
70°-80°	52.0	1.4
80°-90°	16.4	0.4
90°-100°	58.0	1.5
100°-110°	173.6	4.6
110°-120°	295.3	7.9
120°-130°	388.5	10.4
130°-140°	436.7	11.7
140°-150°	429.2	11.5
150°-160°	361.3	9.6
160°-170°	240.5	6.4
170°-180°	84.2	2.2
0°-30°	455.6	12.2
0°-40°	714.0	19.1
0°-60°	1103.5	29.4
0°-90°	1279.8	34.2
90°-120°	527.0	14.1
90°-150°	1781.4	47.5
90°-180°	2468.0	65.9
0°-180°	3747.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	513	513	513	513	513	
5°	609	513	452	513	609	63
15°	866	490	361	490	866	245
25°	892	445	294	445	892	383
35°	387	388	239	388	387	254
45°	206	312	188	312	206	162
55°	130	219	129	219	130	117
65°	75	135	81	135	75	73
75°	32	66	41	66	32	34
85°	7	15	14	15	7	9
90°	21	1	21	1	21	10
95°	55	41	55	41	55	56
105°	166	157	166	157	166	177
115°	298	297	298	297	298	295
125°	430	435	430	435	430	385
135°	564	565	564	565	564	434
145°	685	685	685	685	685	427
155°	783	784	783	784	783	360
165°	851	854	851	854	851	240
175°	885	888	885	888	885	84
180°	891	891	891	891	891	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	546.4	547.1	544.8	544.4	541.8	541.1	541.1	537.3	535.1	532.2	530.4
5°	609.2	612.7	610.9	607.0	600.4	598.8	594.7	588.1	580.6	571.4	567.0
7.5°	687.6	692.4	690.5	684.5	677.5	671.9	660.2	649.2	634.0	620.5	609.0
10°	751.9	746.9	742.9	737.0	730.6	720.3	707.9	691.1	671.6	656.1	639.0
12.5°	800.0	799.2	794.2	788.1	779.1	769.3	754.1	733.6	710.9	688.6	669.0
15°	865.6	867.0	863.7	857.3	844.5	827.2	804.4	795.8	763.3	739.1	715.0
17.5°	911.1	910.8	910.3	901.5	888.5	876.2	855.0	832.5	803.0	769.0	736.5
20°	939.9	937.6	938.1	928.2	918.6	904.3	883.6	850.9	826.8	787.5	753.8
22.5°	939.1	938.7	940.4	937.0	930.0	919.1	902.8	875.2	844.3	804.6	766.9
25°	892.0	890.2	900.5	903.4	914.6	916.6	911.7	896.6	867.4	826.5	779.8
27.5°	746.5	745.6	764.7	788.7	819.1	842.7	865.5	876.6	867.4	838.1	791.3
30°	612.7	633.3	643.0	677.7	716.3	762.4	802.9	841.2	850.7	837.9	799.6
32.5°	508.7	526.7	534.8	564.5	600.6	654.6	715.2	769.6	808.0	817.7	794.7
35°	386.9	387.1	405.6	418.8	452.1	507.7	566.6	639.4	711.9	766.9	772.5
37.5°	308.8	309.8	321.0	334.1	359.2	388.5	440.4	501.0	584.7	668.9	718.4
40°	266.6	268.5	276.9	289.8	307.8	330.1	370.4	427.5	497.4	591.2	667.8
42.5°	239.5	242.7	247.0	257.0	268.2	289.0	321.6	365.7	429.2	517.9	606.3
45°	206.4	208.2	211.5	216.1	226.2	240.6	262.6	292.3	345.0	416.3	504.8
47.5°	182.1	181.2	184.6	188.3	195.1	205.0	219.7	243.8	281.4	338.7	413.8
50°	165.6	165.3	167.8	170.6	177.0	184.3	196.3	214.5	244.4	291.8	360.6
52.5°	150.1	150.9	152.7	156.2	160.8	166.6	177.5	190.7	216.3	257.2	314.5
55°	129.6	130.3	132.6	134.6	137.9	143.8	150.6	161.6	179.2	207.7	255.0
57.5°	112.2	111.9	114.1	114.7	118.4	123.2	128.5	137.0	149.8	171.0	202.7
60°	100.6	99.9	101.9	103.4	105.4	109.3	113.8	122.1	132.2	147.8	175.0
62.5°	90.0	89.7	91.1	92.7	94.3	97.9	101.6	108.0	116.0	129.1	150.8
65°	74.6	75.3	76.0	76.6	77.5	79.7	83.2	87.7	93.1	102.4	117.9
67.5°	58.7	59.4	59.6	60.9	62.8	64.2	66.4	70.2	74.1	81.8	90.7
70°	47.4	47.2	47.4	48.1	50.5	52.9	55.8	58.6	61.1	66.5	74.0
72.5°	40.7	40.3	40.9	41.1	42.2	42.9	44.7	47.4	50.5	54.2	59.6
75°	31.6	31.6	31.6	31.6	32.5	32.9	33.6	34.2	35.3	37.1	41.1
77.5°	23.4	23.4	23.8	23.9	24.1	24.4	24.8	25.4	25.8	26.8	28.5
80°	18.5	18.7	18.5	18.7	18.7	19.1	19.3	20.0	20.2	21.3	22.0
82.5°	13.9	13.8	13.9	14.1	14.1	14.5	14.6	15.1	15.1	15.6	16.3
85°	7.4	7.1	7.4	7.3	7.7	7.3	7.4	7.9	7.9	8.1	9.0
87.5°	5.9	6.2	5.8	5.9	5.8	5.9	5.8	5.7	5.9	5.7	5.4
90°	21.0	20.6	20.4	20.1	19.7	19.3	18.7	18.0	17.4	16.8	14.8
92.5°	28.3	28.5	28.7	28.8	29.0	28.8	28.4	27.9	27.3	26.9	25.7
95°	54.6	54.6	54.6	54.6	54.6	54.3	53.6	53.0	52.4	51.7	50.5
97.5°	84.0	84.0	84.1	84.2	84.2	83.9	83.1	82.5	81.7	81.1	80.1
100°	106.3	106.0	105.8	105.4	105.1	104.7	104.2	103.8	103.3	102.8	102.1
102.5°	129.3	129.3	129.4	129.5	129.5	129.3	128.8	128.4	127.9	127.4	126.4
105°	166.5	166.2	165.9	165.6	165.2	165.1	165.1	165.1	165.1	165.1	163.7
107.5°	205.3	205.5	205.7	205.9	206.0	205.9	205.4	204.8	204.3	203.9	203.3
110°	231.6	231.9	232.1	232.5	232.8	232.6	232.1	231.4	230.8	230.2	229.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	259.6	259.6	259.7	259.8	259.8	259.5	258.7	258.0	257.2	256.5	256.4
115°	298.0	298.2	298.3	298.5	298.7	298.7	298.5	298.3	298.2	298.0	298.3
117.5°	337.1	337.5	337.9	338.4	338.8	339.0	339.0	339.1	339.1	339.1	339.6
120°	364.5	364.8	365.1	365.4	365.7	366.0	366.1	366.3	366.5	366.6	367.4
122.5°	390.8	391.2	391.6	392.1	392.6	392.9	393.3	393.8	394.2	394.5	395.0
125°	430.3	430.8	431.5	432.2	432.7	433.4	433.9	434.6	435.3	435.8	436.1
127.5°	469.6	470.3	471.0	471.7	472.4	473.3	474.1	474.9	475.8	476.7	477.0
130°	495.3	496.4	497.5	498.6	499.6	500.5	501.1	501.8	502.4	503.0	503.5
132.5°	522.2	523.0	523.9	524.7	525.6	526.3	527.1	527.8	528.6	529.3	529.6
135°	563.8	564.2	564.5	564.8	565.1	565.6	566.2	566.8	567.4	568.1	568.3
137.5°	600.7	601.2	601.8	602.5	603.0	603.7	604.3	604.9	605.6	606.2	605.9
140°	624.7	625.8	626.9	628.0	629.1	629.7	629.9	630.0	630.2	630.4	630.2
142.5°	649.3	650.2	651.0	651.9	652.7	653.2	653.4	653.6	653.7	653.8	653.6
145°	684.9	685.5	686.2	686.7	687.4	687.8	688.0	688.1	688.2	688.4	688.0
147.5°	716.5	717.5	718.4	719.3	720.3	720.8	720.8	720.8	720.8	720.8	720.3
150°	736.7	737.6	738.6	739.4	740.4	740.8	740.8	740.8	740.8	740.8	740.6
152.5°	756.3	757.1	757.9	758.7	759.5	759.8	759.5	759.3	759.0	758.7	758.6
155°	782.9	783.9	785.0	786.1	787.2	787.4	786.8	786.2	785.6	784.9	784.8
157.5°	807.0	807.9	808.8	809.6	810.5	810.7	810.0	809.4	808.7	808.0	807.9
160°	822.7	823.3	824.0	824.6	825.2	825.1	824.3	823.6	822.8	822.0	822.0
162.5°	834.4	835.5	836.5	837.4	838.5	838.6	837.8	837.0	836.2	835.5	835.4
165°	851.4	852.5	853.6	854.7	855.7	855.8	854.9	853.9	853.0	852.1	852.1
167.5°	865.8	866.8	867.7	868.7	869.7	869.7	868.7	867.7	866.8	865.8	865.7
170°	873.1	874.2	875.2	876.4	877.4	877.4	876.4	875.2	874.2	873.1	873.1
172.5°	878.7	879.8	880.9	881.9	883.1	883.1	882.1	881.2	880.2	879.2	879.2
175°	885.0	886.1	887.1	888.3	889.4	889.4	888.4	887.6	886.6	885.7	885.7
177.5°	888.3	889.2	890.0	891.0	891.8	891.9	891.2	890.4	889.7	888.9	888.9
180°	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	529.6	529.1	526.7	523.9	520.2	517.7	515.8	514.7	511.5	507.7	505.1
5°	562.4	555.8	548.7	540.2	532.3	524.1	519.2	513.2	506.0	497.9	492.1
7.5°	597.4	584.5	570.6	556.2	542.1	529.3	518.0	508.4	496.9	485.2	477.1
10°	624.3	605.4	585.9	565.9	547.7	530.6	517.4	504.4	490.6	477.2	467.0
12.5°	648.8	623.9	601.3	576.7	553.5	533.0	514.1	498.8	482.1	467.9	456.4
15°	679.7	654.1	627.0	589.6	558.6	532.7	509.6	489.7	469.5	451.9	440.7
17.5°	708.5	670.2	633.6	602.5	562.2	529.9	501.7	477.9	455.6	437.1	423.2
20°	720.5	683.3	643.7	603.9	564.4	528.1	495.4	469.0	446.0	424.9	412.2
22.5°	727.6	685.7	643.8	601.1	559.1	521.4	489.1	460.1	435.1	415.1	399.4
25°	736.0	686.0	639.9	597.8	554.9	514.1	475.6	444.9	417.9	396.6	379.9
27.5°	741.6	682.7	628.2	581.4	537.9	497.3	462.0	429.4	402.0	379.5	361.6
30°	742.6	680.0	619.3	568.5	524.4	487.0	449.7	418.6	389.6	365.6	348.9
32.5°	744.0	673.5	607.1	553.3	508.0	471.1	437.2	407.5	377.8	354.2	337.1
35°	738.3	670.0	588.7	526.8	481.5	445.7	415.3	387.8	358.6	335.7	318.4
37.5°	713.3	655.7	569.7	497.0	449.7	416.6	391.7	367.8	341.0	316.3	300.0
40°	688.2	641.7	554.9	478.9	429.5	395.5	373.1	353.5	327.6	304.5	287.0
42.5°	650.8	622.5	540.8	460.0	406.7	373.9	355.0	336.7	314.0	290.5	274.0
45°	582.1	585.9	512.1	429.7	375.0	342.1	324.3	311.6	291.4	272.1	255.1
47.5°	496.1	530.9	478.3	397.6	341.8	310.9	295.3	284.2	270.5	251.6	236.1
50°	439.9	489.7	451.3	376.0	320.8	290.1	274.8	265.7	253.8	238.9	224.2
52.5°	388.0	441.6	418.6	351.9	298.1	270.0	255.1	247.6	238.2	224.1	210.8
55°	316.4	370.7	365.4	315.6	264.2	238.9	227.5	219.1	212.8	202.3	191.7
57.5°	256.0	307.4	310.1	275.1	234.2	209.2	199.4	193.1	189.0	181.1	171.3
60°	217.8	265.0	274.3	247.9	212.8	190.9	181.2	176.1	172.9	166.5	159.0
62.5°	186.2	226.4	236.9	217.9	192.3	171.6	164.1	159.3	157.0	151.6	145.0
65°	142.5	175.9	186.0	175.5	162.0	145.6	139.4	135.3	133.3	130.3	125.4
67.5°	107.2	131.5	142.6	135.2	130.3	119.9	116.0	113.8	112.0	109.9	105.8
70°	86.1	104.1	115.5	113.6	109.6	104.1	101.2	99.7	97.9	96.1	92.7
72.5°	69.2	81.6	92.3	93.3	90.1	89.0	86.4	85.8	84.7	82.7	80.7
75°	45.9	54.5	61.9	64.8	66.1	67.2	66.1	65.9	65.7	63.9	62.8
77.5°	30.1	34.7	39.4	44.3	46.4	47.8	48.2	49.0	48.4	47.5	46.9
80°	23.1	24.1	27.4	31.6	34.9	36.2	37.1	37.5	37.3	37.1	36.2
82.5°	16.8	17.6	19.2	22.1	24.9	27.1	27.6	27.5	28.0	28.2	27.4
85°	9.0	9.2	9.7	10.1	11.6	14.0	14.7	15.2	15.6	15.6	14.2
87.5°	5.4	4.8	4.7	4.3	4.6	4.4	5.2	5.7	6.2	5.8	6.1
90°	12.7	10.7	8.7	6.9	5.4	3.8	2.3	0.7	2.3	3.8	5.4
92.5°	24.6	23.4	22.2	21.1	20.1	19.0	18.0	17.0	18.0	19.0	20.1
95°	49.3	48.1	46.8	45.6	44.6	43.5	42.3	41.3	42.3	43.5	44.6
97.5°	79.2	78.3	77.4	76.5	75.8	74.9	74.1	73.3	74.1	74.9	75.8
100°	101.3	100.5	99.7	98.9	97.9	97.0	96.0	95.1	96.0	97.0	97.9
102.5°	125.5	124.4	123.4	122.5	122.0	121.5	120.9	120.4	120.9	121.5	122.0
105°	162.3	160.9	159.5	158.6	158.3	158.1	157.7	157.4	157.7	158.1	158.3
107.5°	202.7	202.2	201.6	201.2	201.0	200.9	200.7	200.5	200.7	200.9	201.0
110°	229.5	229.2	228.9	228.6	228.3	228.0	227.7	227.3	227.7	228.0	228.3



TEST NUMBER: P332395-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	256.4	256.3	256.2	256.1	255.9	255.7	255.5	255.3	255.5	255.7	255.9
115°	298.7	299.0	299.3	299.2	298.7	298.2	297.7	297.4	297.7	298.2	298.7
117.5°	340.0	340.4	340.8	340.8	340.5	340.2	339.9	339.6	339.9	340.2	340.5
120°	368.2	368.9	369.7	369.7	368.7	367.8	366.8	365.9	366.8	367.8	368.7
122.5°	395.4	395.8	396.2	396.1	395.4	394.6	394.0	393.3	394.0	394.6	395.4
125°	436.5	436.8	437.1	437.1	436.6	436.1	435.6	435.2	435.6	436.1	436.6
127.5°	477.4	477.8	478.1	477.8	476.7	475.8	474.8	473.7	474.8	475.8	476.7
130°	504.0	504.4	504.9	504.4	503.2	502.0	500.8	499.5	500.8	502.0	503.2
132.5°	530.0	530.4	530.7	530.3	529.0	527.7	526.5	525.3	526.5	527.7	529.0
135°	568.4	568.5	568.7	568.3	567.4	566.5	565.5	564.6	565.5	566.5	567.4
137.5°	605.5	605.0	604.6	604.1	603.3	602.5	601.7	601.0	601.7	602.5	603.3
140°	630.0	629.9	629.7	629.2	628.5	627.7	626.9	626.1	626.9	627.7	628.5
142.5°	653.3	653.0	652.7	652.1	651.4	650.6	649.9	649.1	649.9	650.6	651.4
145°	687.5	687.0	686.5	686.2	685.8	685.5	685.2	684.9	685.2	685.5	685.8
147.5°	719.8	719.4	719.0	718.5	717.9	717.4	716.8	716.2	716.8	717.4	717.9
150°	740.3	739.9	739.6	739.3	739.0	738.7	738.4	738.1	738.4	738.7	739.0
152.5°	758.4	758.2	758.0	757.7	757.3	756.9	756.4	756.0	756.4	756.9	757.3
155°	784.7	784.5	784.3	784.3	784.3	784.3	784.3	784.3	784.3	784.3	784.3
157.5°	807.8	807.7	807.6	807.6	807.8	807.9	808.1	808.3	808.1	807.9	807.8
160°	822.0	822.0	822.0	822.2	822.5	822.8	823.1	823.4	823.1	822.8	822.5
162.5°	835.2	835.1	835.0	835.1	835.6	835.9	836.4	836.9	836.4	835.9	835.6
165°	852.1	852.1	852.1	852.3	852.8	853.3	853.8	854.2	853.8	853.3	852.8
167.5°	865.5	865.4	865.3	865.5	866.2	866.9	867.4	868.1	867.4	866.9	866.2
170°	873.1	873.1	873.1	873.4	874.0	874.7	875.2	875.9	875.2	874.7	874.0
172.5°	879.2	879.2	879.2	879.6	880.1	880.8	881.5	882.0	881.5	880.8	880.1
175°	885.7	885.7	885.7	886.0	886.6	887.2	887.9	888.4	887.9	887.2	886.6
177.5°	888.9	888.9	888.9	889.2	889.7	890.1	890.6	891.2	890.6	890.1	889.7
180°	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6



TEST NUMBER: P332395-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	504.2	501.9	500.3	496.8	494.6	492.1	489.7	491.2	491.0	490.9	490.9
5°	487.3	482.2	477.6	471.6	468.0	463.4	459.9	459.4	460.2	457.2	455.4
7.5°	470.5	463.6	457.0	450.5	443.6	438.0	434.6	432.9	430.7	428.9	426.9
10°	458.7	450.6	444.2	436.1	428.7	422.1	417.9	415.0	413.5	412.0	409.1
12.5°	446.6	438.7	430.6	421.3	414.2	406.6	403.5	400.3	397.4	395.6	391.7
15°	428.9	418.6	410.0	400.3	392.4	384.9	380.6	374.2	373.3	371.1	367.1
17.5°	411.0	399.9	388.0	380.9	372.0	364.2	357.5	355.4	349.1	346.8	343.3
20°	397.0	386.7	377.7	368.3	355.3	348.1	342.8	340.0	334.9	331.8	329.6
22.5°	384.9	374.4	364.0	353.0	342.3	334.1	330.3	325.8	323.1	318.8	316.4
25°	367.6	356.2	343.7	331.8	324.1	318.0	311.8	307.8	303.9	301.9	297.6
27.5°	347.5	335.5	323.9	314.8	305.4	299.4	293.8	290.3	285.5	282.2	279.7
30°	336.4	322.3	312.3	304.2	292.1	286.3	282.2	277.8	274.3	270.8	268.3
32.5°	323.6	310.8	301.2	291.2	281.9	275.6	270.2	266.4	263.3	260.0	257.6
35°	303.5	292.8	282.9	272.8	265.9	259.6	253.2	249.9	247.0	243.9	241.8
37.5°	285.3	275.2	265.8	256.3	247.8	242.6	237.5	235.0	231.1	229.0	226.9
40°	274.1	264.2	254.1	244.9	236.1	232.1	227.5	223.8	220.3	218.7	216.3
42.5°	261.7	251.8	243.4	233.5	226.2	220.8	216.6	212.5	209.9	207.6	206.3
45°	243.6	234.8	226.4	216.5	209.7	205.1	200.3	196.5	194.2	192.6	190.2
47.5°	225.8	217.1	208.6	200.0	193.4	188.1	183.2	180.7	177.5	175.6	174.0
50°	213.0	205.1	196.1	188.2	181.6	176.3	172.4	169.1	166.3	163.8	162.7
52.5°	201.2	192.8	185.0	177.7	170.7	164.8	161.2	157.7	155.5	152.8	151.5
55°	181.8	173.7	167.1	159.9	153.1	148.0	143.6	140.5	138.4	135.3	133.6
57.5°	163.6	156.3	148.5	142.1	135.2	130.9	127.2	123.1	120.4	118.0	116.2
60°	151.3	143.0	136.1	130.3	124.0	118.6	115.3	112.0	109.1	106.7	105.2
62.5°	138.5	131.2	124.7	118.3	112.6	107.8	104.1	101.3	98.8	97.3	95.7
65°	118.8	113.1	106.5	101.2	96.0	92.5	89.4	87.0	85.2	84.1	82.8
67.5°	100.7	95.2	89.4	84.3	80.7	78.0	76.1	74.0	73.0	71.6	70.8
70°	89.0	83.2	78.1	74.2	70.7	68.7	67.4	65.9	65.0	63.2	62.4
72.5°	76.2	72.0	68.3	65.1	62.3	60.5	58.8	56.9	55.5	53.5	52.7
75°	59.9	56.2	53.3	51.2	49.4	47.0	44.6	42.6	41.9	41.3	41.1
77.5°	44.4	42.0	40.0	38.1	35.9	34.2	33.6	33.2	33.1	32.7	32.7
80°	34.9	32.7	31.2	29.0	27.7	27.7	27.7	27.2	27.4	27.4	27.4
82.5°	25.9	23.9	23.1	22.3	22.1	22.2	22.2	22.3	22.1	22.5	22.3
85°	13.4	13.6	14.0	13.9	14.0	14.0	14.5	14.2	14.5	14.0	14.5
87.5°	6.3	7.2	7.7	8.4	9.0	9.1	9.4	9.6	9.9	10.0	10.1
90°	6.9	8.7	10.7	12.7	14.8	16.8	17.4	18.0	18.7	19.3	19.7
92.5°	21.1	22.2	23.4	24.6	25.7	26.9	27.3	27.9	28.4	28.8	29.0
95°	45.6	46.8	48.1	49.3	50.5	51.7	52.4	53.0	53.6	54.3	54.6
97.5°	76.5	77.4	78.3	79.2	80.1	81.1	81.7	82.5	83.1	83.9	84.2
100°	98.9	99.7	100.5	101.3	102.1	102.8	103.3	103.8	104.2	104.7	105.1
102.5°	122.5	123.4	124.4	125.5	126.4	127.4	127.9	128.4	128.8	129.3	129.5
105°	158.6	159.5	160.9	162.3	163.7	165.1	165.1	165.1	165.1	165.1	165.2
107.5°	201.2	201.6	202.2	202.7	203.3	203.9	204.3	204.8	205.4	205.9	206.0
110°	228.6	228.9	229.2	229.5	229.9	230.2	230.8	231.4	232.1	232.6	232.8



TEST NUMBER: P332395-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	256.1	256.2	256.3	256.4	256.4	256.5	257.2	258.0	258.7	259.5	259.8
115°	299.2	299.3	299.0	298.7	298.3	298.0	298.2	298.3	298.5	298.7	298.7
117.5°	340.8	340.8	340.4	340.0	339.6	339.1	339.1	339.1	339.0	339.0	338.8
120°	369.7	369.7	368.9	368.2	367.4	366.6	366.5	366.3	366.1	366.0	365.7
122.5°	396.1	396.2	395.8	395.4	395.0	394.5	394.2	393.8	393.3	392.9	392.6
125°	437.1	437.1	436.8	436.5	436.1	435.8	435.3	434.6	433.9	433.4	432.7
127.5°	477.8	478.1	477.8	477.4	477.0	476.7	475.8	474.9	474.1	473.3	472.4
130°	504.4	504.9	504.4	504.0	503.5	503.0	502.4	501.8	501.1	500.5	499.6
132.5°	530.3	530.7	530.4	530.0	529.6	529.3	528.6	527.8	527.1	526.3	525.6
135°	568.3	568.7	568.5	568.4	568.3	568.1	567.4	566.8	566.2	565.6	565.1
137.5°	604.1	604.6	605.0	605.5	605.9	606.2	605.6	604.9	604.3	603.7	603.0
140°	629.2	629.7	629.9	630.0	630.2	630.4	630.2	630.0	629.9	629.7	629.1
142.5°	652.1	652.7	653.0	653.3	653.6	653.8	653.7	653.6	653.4	653.2	652.7
145°	686.2	686.5	687.0	687.5	688.0	688.4	688.2	688.1	688.0	687.8	687.4
147.5°	718.5	719.0	719.4	719.8	720.3	720.8	720.8	720.8	720.8	720.8	720.3
150°	739.3	739.6	739.9	740.3	740.6	740.8	740.8	740.8	740.8	740.8	740.4
152.5°	757.7	758.0	758.2	758.4	758.6	758.7	759.0	759.3	759.5	759.8	759.5
155°	784.3	784.3	784.5	784.7	784.8	784.9	785.6	786.2	786.8	787.4	787.2
157.5°	807.6	807.6	807.7	807.8	807.9	808.0	808.7	809.4	810.0	810.7	810.5
160°	822.2	822.0	822.0	822.0	822.0	822.0	822.8	823.6	824.3	825.1	825.2
162.5°	835.1	835.0	835.1	835.2	835.4	835.5	836.2	837.0	837.8	838.6	838.5
165°	852.3	852.1	852.1	852.1	852.1	852.1	853.0	853.9	854.9	855.8	855.7
167.5°	865.5	865.3	865.4	865.5	865.7	865.8	866.8	867.7	868.7	869.7	869.7
170°	873.4	873.1	873.1	873.1	873.1	873.1	874.2	875.2	876.4	877.4	877.4
172.5°	879.6	879.2	879.2	879.2	879.2	879.2	880.2	881.2	882.1	883.1	883.1
175°	886.0	885.7	885.7	885.7	885.7	885.7	886.6	887.6	888.4	889.4	889.4
177.5°	889.2	888.9	888.9	888.9	888.9	888.9	889.7	890.4	891.2	891.9	891.8
180°	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6



TEST NUMBER: P332395-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	488.7	488.5	488.7	488.0	488.7	488.5	488.7	490.9	490.9	491.0	491.2
5°	454.8	454.6	453.9	451.9	453.9	454.6	454.8	455.4	457.2	460.2	459.4
7.5°	425.1	424.8	422.9	422.9	422.9	424.8	425.1	426.9	428.9	430.7	432.9
10°	407.6	407.7	405.1	403.6	405.1	407.7	407.6	409.1	412.0	413.5	415.0
12.5°	390.5	389.6	387.4	385.7	387.4	389.6	390.5	391.7	395.6	397.4	400.3
15°	368.1	365.8	360.6	361.0	360.6	365.8	368.1	367.1	371.1	373.3	374.2
17.5°	341.6	340.0	339.9	336.8	339.9	340.0	341.6	343.3	346.8	349.1	355.4
20°	326.1	325.0	325.5	322.3	325.5	325.0	326.1	329.6	331.8	334.9	340.0
22.5°	314.0	312.8	311.0	310.1	311.0	312.8	314.0	316.4	318.8	323.1	325.8
25°	296.2	294.5	292.8	293.8	292.8	294.5	296.2	297.6	301.9	303.9	307.8
27.5°	278.5	277.2	275.4	275.2	275.4	277.2	278.5	279.7	282.2	285.5	290.3
30°	267.2	265.9	265.0	263.9	265.0	265.9	267.2	268.3	270.8	274.3	277.8
32.5°	255.8	255.5	254.0	253.7	254.0	255.5	255.8	257.6	260.0	263.3	266.4
35°	240.9	239.6	239.1	239.3	239.1	239.6	240.9	241.8	243.9	247.0	249.9
37.5°	226.7	225.0	224.1	223.4	224.1	225.0	226.7	226.9	229.0	231.1	235.0
40°	216.5	214.8	214.3	213.9	214.3	214.8	216.5	216.3	218.7	220.3	223.8
42.5°	205.1	204.4	204.2	203.3	204.2	204.4	205.1	206.3	207.6	209.9	212.5
45°	189.5	189.3	187.9	188.4	187.9	189.3	189.5	190.2	192.6	194.2	196.5
47.5°	173.1	172.1	171.2	171.8	171.2	172.1	173.1	174.0	175.6	177.5	180.7
50°	161.8	161.4	159.4	159.9	159.4	161.4	161.8	162.7	163.8	166.3	169.1
52.5°	150.6	148.9	148.2	147.9	148.2	148.9	150.6	151.5	152.8	155.5	157.7
55°	132.0	130.0	129.1	128.7	129.1	130.0	132.0	133.6	135.3	138.4	140.5
57.5°	113.7	113.2	112.4	112.9	112.4	113.2	113.7	116.2	118.0	120.4	123.1
60°	103.0	103.0	103.0	102.7	103.0	103.0	103.0	105.2	106.7	109.1	112.0
62.5°	94.7	94.2	94.1	94.3	94.1	94.2	94.7	95.7	97.3	98.8	101.3
65°	82.1	81.9	81.1	80.8	81.1	81.9	82.1	82.8	84.1	85.2	87.0
67.5°	70.2	69.5	69.2	68.9	69.2	69.5	70.2	70.8	71.6	73.0	74.0
70°	61.3	60.8	59.5	59.8	59.5	60.8	61.3	62.4	63.2	65.0	65.9
72.5°	51.7	51.2	50.9	50.6	50.9	51.2	51.7	52.7	53.5	55.5	56.9
75°	40.8	40.6	40.4	41.3	40.4	40.6	40.8	41.1	41.3	41.9	42.6
77.5°	32.7	32.7	32.9	32.5	32.9	32.7	32.7	32.7	32.7	33.1	33.2
80°	27.4	27.4	27.2	27.2	27.2	27.4	27.4	27.4	27.4	27.4	27.2
82.5°	22.0	22.1	22.3	22.0	22.3	22.1	22.0	22.3	22.5	22.1	22.3
85°	14.5	14.2	14.7	14.5	14.7	14.2	14.5	14.5	14.0	14.5	14.2
87.5°	10.6	10.2	10.3	10.6	10.3	10.2	10.6	10.1	10.0	9.9	9.6
90°	20.1	20.4	20.6	21.0	20.6	20.4	20.1	19.7	19.3	18.7	18.0
92.5°	28.8	28.7	28.5	28.3	28.5	28.7	28.8	29.0	28.8	28.4	27.9
95°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.3	53.6	53.0
97.5°	84.2	84.1	84.0	84.0	84.0	84.1	84.2	84.2	83.9	83.1	82.5
100°	105.4	105.8	106.0	106.3	106.0	105.8	105.4	105.1	104.7	104.2	103.8
102.5°	129.5	129.4	129.3	129.3	129.3	129.4	129.5	129.5	129.3	128.8	128.4
105°	165.6	165.9	166.2	166.5	166.2	165.9	165.6	165.2	165.1	165.1	165.1
107.5°	205.9	205.7	205.5	205.3	205.5	205.7	205.9	206.0	205.9	205.4	204.8
110°	232.5	232.1	231.9	231.6	231.9	232.1	232.5	232.8	232.6	232.1	231.4



TEST NUMBER: P332395-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	259.8	259.7	259.6	259.6	259.6	259.7	259.8	259.8	259.5	258.7	258.0
115°	298.5	298.3	298.2	298.0	298.2	298.3	298.5	298.7	298.7	298.5	298.3
117.5°	338.4	337.9	337.5	337.1	337.5	337.9	338.4	338.8	339.0	339.0	339.1
120°	365.4	365.1	364.8	364.5	364.8	365.1	365.4	365.7	366.0	366.1	366.3
122.5°	392.1	391.6	391.2	390.8	391.2	391.6	392.1	392.6	392.9	393.3	393.8
125°	432.2	431.5	430.8	430.3	430.8	431.5	432.2	432.7	433.4	433.9	434.6
127.5°	471.7	471.0	470.3	469.6	470.3	471.0	471.7	472.4	473.3	474.1	474.9
130°	498.6	497.5	496.4	495.3	496.4	497.5	498.6	499.6	500.5	501.1	501.8
132.5°	524.7	523.9	523.0	522.2	523.0	523.9	524.7	525.6	526.3	527.1	527.8
135°	564.8	564.5	564.2	563.8	564.2	564.5	564.8	565.1	565.6	566.2	566.8
137.5°	602.5	601.8	601.2	600.7	601.2	601.8	602.5	603.0	603.7	604.3	604.9
140°	628.0	626.9	625.8	624.7	625.8	626.9	628.0	629.1	629.7	629.9	630.0
142.5°	651.9	651.0	650.2	649.3	650.2	651.0	651.9	652.7	653.2	653.4	653.6
145°	686.7	686.2	685.5	684.9	685.5	686.2	686.7	687.4	687.8	688.0	688.1
147.5°	719.3	718.4	717.5	716.5	717.5	718.4	719.3	720.3	720.8	720.8	720.8
150°	739.4	738.6	737.6	736.7	737.6	738.6	739.4	740.4	740.8	740.8	740.8
152.5°	758.7	757.9	757.1	756.3	757.1	757.9	758.7	759.5	759.8	759.5	759.3
155°	786.1	785.0	783.9	782.9	783.9	785.0	786.1	787.2	787.4	786.8	786.2
157.5°	809.6	808.8	807.9	807.0	807.9	808.8	809.6	810.5	810.7	810.0	809.4
160°	824.6	824.0	823.3	822.7	823.3	824.0	824.6	825.2	825.1	824.3	823.6
162.5°	837.4	836.5	835.5	834.4	835.5	836.5	837.4	838.5	838.6	837.8	837.0
165°	854.7	853.6	852.5	851.4	852.5	853.6	854.7	855.7	855.8	854.9	853.9
167.5°	868.7	867.7	866.8	865.8	866.8	867.7	868.7	869.7	869.7	868.7	867.7
170°	876.4	875.2	874.2	873.1	874.2	875.2	876.4	877.4	877.4	876.4	875.2
172.5°	881.9	880.9	879.8	878.7	879.8	880.9	881.9	883.1	883.1	882.1	881.2
175°	888.3	887.1	886.1	885.0	886.1	887.1	888.3	889.4	889.4	888.4	887.6
177.5°	891.0	890.0	889.2	888.3	889.2	890.0	891.0	891.8	891.9	891.2	890.4
180°	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6



TEST NUMBER: P332395-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	489.7	492.1	494.6	496.8	500.3	501.9	504.2	505.1	507.7	511.5	514.7
5°	459.9	463.4	468.0	471.6	477.6	482.2	487.3	492.1	497.9	506.0	513.2
7.5°	434.6	438.0	443.6	450.5	457.0	463.6	470.5	477.1	485.2	496.9	508.4
10°	417.9	422.1	428.7	436.1	444.2	450.6	458.7	467.0	477.2	490.6	504.4
12.5°	403.5	406.6	414.2	421.3	430.6	438.7	446.6	456.4	467.9	482.1	498.8
15°	380.6	384.9	392.4	400.3	410.0	418.6	428.9	440.7	451.9	469.5	489.7
17.5°	357.5	364.2	372.0	380.9	388.0	399.9	411.0	423.2	437.1	455.6	477.9
20°	342.8	348.1	355.3	368.3	377.7	386.7	397.0	412.2	424.9	446.0	469.0
22.5°	330.3	334.1	342.3	353.0	364.0	374.4	384.9	399.4	415.1	435.1	460.1
25°	311.8	318.0	324.1	331.8	343.7	356.2	367.6	379.9	396.6	417.9	444.9
27.5°	293.8	299.4	305.4	314.8	323.9	335.5	347.5	361.6	379.5	402.0	429.4
30°	282.2	286.3	292.1	304.2	312.3	322.3	336.4	348.9	365.6	389.6	418.6
32.5°	270.2	275.6	281.9	291.2	301.2	310.8	323.6	337.1	354.2	377.8	407.5
35°	253.2	259.6	265.9	272.8	282.9	292.8	303.5	318.4	335.7	358.6	387.8
37.5°	237.5	242.6	247.8	256.3	265.8	275.2	285.3	300.0	316.3	341.0	367.8
40°	227.5	232.1	236.1	244.9	254.1	264.2	274.1	287.0	304.5	327.6	353.5
42.5°	216.6	220.8	226.2	233.5	243.4	251.8	261.7	274.0	290.5	314.0	336.7
45°	200.3	205.1	209.7	216.5	226.4	234.8	243.6	255.1	272.1	291.4	311.6
47.5°	183.2	188.1	193.4	200.0	208.6	217.1	225.8	236.1	251.6	270.5	284.2
50°	172.4	176.3	181.6	188.2	196.1	205.1	213.0	224.2	238.9	253.8	265.7
52.5°	161.2	164.8	170.7	177.7	185.0	192.8	201.2	210.8	224.1	238.2	247.6
55°	143.6	148.0	153.1	159.9	167.1	173.7	181.8	191.7	202.3	212.8	219.1
57.5°	127.2	130.9	135.2	142.1	148.5	156.3	163.6	171.3	181.1	189.0	193.1
60°	115.3	118.6	124.0	130.3	136.1	143.0	151.3	159.0	166.5	172.9	176.1
62.5°	104.1	107.8	112.6	118.3	124.7	131.2	138.5	145.0	151.6	157.0	159.3
65°	89.4	92.5	96.0	101.2	106.5	113.1	118.8	125.4	130.3	133.3	135.3
67.5°	76.1	78.0	80.7	84.3	89.4	95.2	100.7	105.8	109.9	112.0	113.8
70°	67.4	68.7	70.7	74.2	78.1	83.2	89.0	92.7	96.1	97.9	99.7
72.5°	58.8	60.5	62.3	65.1	68.3	72.0	76.2	80.7	82.7	84.7	85.8
75°	44.6	47.0	49.4	51.2	53.3	56.2	59.9	62.8	63.9	65.7	65.9
77.5°	33.6	34.2	35.9	38.1	40.0	42.0	44.4	46.9	47.5	48.4	49.0
80°	27.7	27.7	27.7	29.0	31.2	32.7	34.9	36.2	37.1	37.3	37.5
82.5°	22.2	22.2	22.1	22.3	23.1	23.9	25.9	27.4	28.2	28.0	27.5
85°	14.5	14.0	14.0	13.9	14.0	13.6	13.4	14.2	15.6	15.6	15.2
87.5°	9.4	9.1	9.0	8.4	7.7	7.2	6.3	6.1	5.8	6.2	5.7
90°	17.4	16.8	14.8	12.7	10.7	8.7	6.9	5.4	3.8	2.3	0.7
92.5°	27.3	26.9	25.7	24.6	23.4	22.2	21.1	20.1	19.0	18.0	17.0
95°	52.4	51.7	50.5	49.3	48.1	46.8	45.6	44.6	43.5	42.3	41.3
97.5°	81.7	81.1	80.1	79.2	78.3	77.4	76.5	75.8	74.9	74.1	73.3
100°	103.3	102.8	102.1	101.3	100.5	99.7	98.9	97.9	97.0	96.0	95.1
102.5°	127.9	127.4	126.4	125.5	124.4	123.4	122.5	122.0	121.5	120.9	120.4
105°	165.1	165.1	163.7	162.3	160.9	159.5	158.6	158.3	158.1	157.7	157.4
107.5°	204.3	203.9	203.3	202.7	202.2	201.6	201.2	201.0	200.9	200.7	200.5
110°	230.8	230.2	229.9	229.5	229.2	228.9	228.6	228.3	228.0	227.7	227.3



TEST NUMBER: P332395-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	257.2	256.5	256.4	256.4	256.3	256.2	256.1	255.9	255.7	255.5	255.3
115°	298.2	298.0	298.3	298.7	299.0	299.3	299.2	298.7	298.2	297.7	297.4
117.5°	339.1	339.1	339.6	340.0	340.4	340.8	340.8	340.5	340.2	339.9	339.6
120°	366.5	366.6	367.4	368.2	368.9	369.7	369.7	368.7	367.8	366.8	365.9
122.5°	394.2	394.5	395.0	395.4	395.8	396.2	396.1	395.4	394.6	394.0	393.3
125°	435.3	435.8	436.1	436.5	436.8	437.1	437.1	436.6	436.1	435.6	435.2
127.5°	475.8	476.7	477.0	477.4	477.8	478.1	477.8	476.7	475.8	474.8	473.7
130°	502.4	503.0	503.5	504.0	504.4	504.9	504.4	503.2	502.0	500.8	499.5
132.5°	528.6	529.3	529.6	530.0	530.4	530.7	530.3	529.0	527.7	526.5	525.3
135°	567.4	568.1	568.3	568.4	568.5	568.7	568.3	567.4	566.5	565.5	564.6
137.5°	605.6	606.2	605.9	605.5	605.0	604.6	604.1	603.3	602.5	601.7	601.0
140°	630.2	630.4	630.2	630.0	629.9	629.7	629.2	628.5	627.7	626.9	626.1
142.5°	653.7	653.8	653.6	653.3	653.0	652.7	652.1	651.4	650.6	649.9	649.1
145°	688.2	688.4	688.0	687.5	687.0	686.5	686.2	685.8	685.5	685.2	684.9
147.5°	720.8	720.8	720.3	719.8	719.4	719.0	718.5	717.9	717.4	716.8	716.2
150°	740.8	740.8	740.6	740.3	739.9	739.6	739.3	739.0	738.7	738.4	738.1
152.5°	759.0	758.7	758.6	758.4	758.2	758.0	757.7	757.3	756.9	756.4	756.0
155°	785.6	784.9	784.8	784.7	784.5	784.3	784.3	784.3	784.3	784.3	784.3
157.5°	808.7	808.0	807.9	807.8	807.7	807.6	807.6	807.8	807.9	808.1	808.3
160°	822.8	822.0	822.0	822.0	822.0	822.0	822.2	822.5	822.8	823.1	823.4
162.5°	836.2	835.5	835.4	835.2	835.1	835.0	835.1	835.6	835.9	836.4	836.9
165°	853.0	852.1	852.1	852.1	852.1	852.1	852.3	852.8	853.3	853.8	854.2
167.5°	866.8	865.8	865.7	865.5	865.4	865.3	865.5	866.2	866.9	867.4	868.1
170°	874.2	873.1	873.1	873.1	873.1	873.1	873.4	874.0	874.7	875.2	875.9
172.5°	880.2	879.2	879.2	879.2	879.2	879.2	879.6	880.1	880.8	881.5	882.0
175°	886.6	885.7	885.7	885.7	885.7	885.7	886.0	886.6	887.2	887.9	888.4
177.5°	889.7	888.9	888.9	888.9	888.9	888.9	889.2	889.7	890.1	890.6	891.2
180°	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6



TEST NUMBER: P332395-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	515.8	517.7	520.2	523.9	526.7	529.1	529.6	530.4	532.2	535.1	537.3
5°	519.2	524.1	532.3	540.2	548.7	555.8	562.4	567.0	571.4	580.6	588.1
7.5°	518.0	529.3	542.1	556.2	570.6	584.5	597.4	609.0	620.5	634.0	649.2
10°	517.4	530.6	547.7	565.9	585.9	605.4	624.3	639.0	656.1	671.6	691.1
12.5°	514.1	533.0	553.5	576.7	601.3	623.9	648.8	669.0	688.6	710.9	733.6
15°	509.6	532.7	558.6	589.6	627.0	654.1	679.7	715.0	739.1	763.3	795.8
17.5°	501.7	529.9	562.2	602.5	633.6	670.2	708.5	736.5	769.0	803.0	832.5
20°	495.4	528.1	564.4	603.9	643.7	683.3	720.5	753.8	787.5	826.8	850.9
22.5°	489.1	521.4	559.1	601.1	643.8	685.7	727.6	766.9	804.6	844.3	875.2
25°	475.6	514.1	554.9	597.8	639.9	686.0	736.0	779.8	826.5	867.4	896.6
27.5°	462.0	497.3	537.9	581.4	628.2	682.7	741.6	791.3	838.1	867.4	876.6
30°	449.7	487.0	524.4	568.5	619.3	680.0	742.6	799.6	837.9	850.7	841.2
32.5°	437.2	471.1	508.0	553.3	607.1	673.5	744.0	794.7	817.7	808.0	769.6
35°	415.3	445.7	481.5	526.8	588.7	670.0	738.3	772.5	766.9	711.9	639.4
37.5°	391.7	416.6	449.7	497.0	569.7	655.7	713.3	718.4	668.9	584.7	501.0
40°	373.1	395.5	429.5	478.9	554.9	641.7	688.2	667.8	591.2	497.4	427.5
42.5°	355.0	373.9	406.7	460.0	540.8	622.5	650.8	606.3	517.9	429.2	365.7
45°	324.3	342.1	375.0	429.7	512.1	585.9	582.1	504.8	416.3	345.0	292.3
47.5°	295.3	310.9	341.8	397.6	478.3	530.9	496.1	413.8	338.7	281.4	243.8
50°	274.8	290.1	320.8	376.0	451.3	489.7	439.9	360.6	291.8	244.4	214.5
52.5°	255.1	270.0	298.1	351.9	418.6	441.6	388.0	314.5	257.2	216.3	190.7
55°	227.5	238.9	264.2	315.6	365.4	370.7	316.4	255.0	207.7	179.2	161.6
57.5°	199.4	209.2	234.2	275.1	310.1	307.4	256.0	202.7	171.0	149.8	137.0
60°	181.2	190.9	212.8	247.9	274.3	265.0	217.8	175.0	147.8	132.2	122.1
62.5°	164.1	171.6	192.3	217.9	236.9	226.4	186.2	150.8	129.1	116.0	108.0
65°	139.4	145.6	162.0	175.5	186.0	175.9	142.5	117.9	102.4	93.1	87.7
67.5°	116.0	119.9	130.3	135.2	142.6	131.5	107.2	90.7	81.8	74.1	70.2
70°	101.2	104.1	109.6	113.6	115.5	104.1	86.1	74.0	66.5	61.1	58.6
72.5°	86.4	89.0	90.1	93.3	92.3	81.6	69.2	59.6	54.2	50.5	47.4
75°	66.1	67.2	66.1	64.8	61.9	54.5	45.9	41.1	37.1	35.3	34.2
77.5°	48.2	47.8	46.4	44.3	39.4	34.7	30.1	28.5	26.8	25.8	25.4
80°	37.1	36.2	34.9	31.6	27.4	24.1	23.1	22.0	21.3	20.2	20.0
82.5°	27.6	27.1	24.9	22.1	19.2	17.6	16.8	16.3	15.6	15.1	15.1
85°	14.7	14.0	11.6	10.1	9.7	9.2	9.0	9.0	8.1	7.9	7.9
87.5°	5.2	4.4	4.6	4.3	4.7	4.8	5.4	5.4	5.7	5.9	5.7
90°	2.3	3.8	5.4	6.9	8.7	10.7	12.7	14.8	16.8	17.4	18.0
92.5°	18.0	19.0	20.1	21.1	22.2	23.4	24.6	25.7	26.9	27.3	27.9
95°	42.3	43.5	44.6	45.6	46.8	48.1	49.3	50.5	51.7	52.4	53.0
97.5°	74.1	74.9	75.8	76.5	77.4	78.3	79.2	80.1	81.1	81.7	82.5
100°	96.0	97.0	97.9	98.9	99.7	100.5	101.3	102.1	102.8	103.3	103.8
102.5°	120.9	121.5	122.0	122.5	123.4	124.4	125.5	126.4	127.4	127.9	128.4
105°	157.7	158.1	158.3	158.6	159.5	160.9	162.3	163.7	165.1	165.1	165.1
107.5°	200.7	200.9	201.0	201.2	201.6	202.2	202.7	203.3	203.9	204.3	204.8
110°	227.7	228.0	228.3	228.6	228.9	229.2	229.5	229.9	230.2	230.8	231.4



TEST NUMBER: P332395-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	255.5	255.7	255.9	256.1	256.2	256.3	256.4	256.4	256.5	257.2	258.0
115°	297.7	298.2	298.7	299.2	299.3	299.0	298.7	298.3	298.0	298.2	298.3
117.5°	339.9	340.2	340.5	340.8	340.8	340.4	340.0	339.6	339.1	339.1	339.1
120°	366.8	367.8	368.7	369.7	369.7	368.9	368.2	367.4	366.6	366.5	366.3
122.5°	394.0	394.6	395.4	396.1	396.2	395.8	395.4	395.0	394.5	394.2	393.8
125°	435.6	436.1	436.6	437.1	437.1	436.8	436.5	436.1	435.8	435.3	434.6
127.5°	474.8	475.8	476.7	477.8	478.1	477.8	477.4	477.0	476.7	475.8	474.9
130°	500.8	502.0	503.2	504.4	504.9	504.4	504.0	503.5	503.0	502.4	501.8
132.5°	526.5	527.7	529.0	530.3	530.7	530.4	530.0	529.6	529.3	528.6	527.8
135°	565.5	566.5	567.4	568.3	568.7	568.5	568.4	568.3	568.1	567.4	566.8
137.5°	601.7	602.5	603.3	604.1	604.6	605.0	605.5	605.9	606.2	605.6	604.9
140°	626.9	627.7	628.5	629.2	629.7	629.9	630.0	630.2	630.4	630.2	630.0
142.5°	649.9	650.6	651.4	652.1	652.7	653.0	653.3	653.6	653.8	653.7	653.6
145°	685.2	685.5	685.8	686.2	686.5	687.0	687.5	688.0	688.4	688.2	688.1
147.5°	716.8	717.4	717.9	718.5	719.0	719.4	719.8	720.3	720.8	720.8	720.8
150°	738.4	738.7	739.0	739.3	739.6	739.9	740.3	740.6	740.8	740.8	740.8
152.5°	756.4	756.9	757.3	757.7	758.0	758.2	758.4	758.6	758.7	759.0	759.3
155°	784.3	784.3	784.3	784.3	784.3	784.5	784.7	784.8	784.9	785.6	786.2
157.5°	808.1	807.9	807.8	807.6	807.6	807.7	807.8	807.9	808.0	808.7	809.4
160°	823.1	822.8	822.5	822.2	822.0	822.0	822.0	822.0	822.0	822.8	823.6
162.5°	836.4	835.9	835.6	835.1	835.0	835.1	835.2	835.4	835.5	836.2	837.0
165°	853.8	853.3	852.8	852.3	852.1	852.1	852.1	852.1	852.1	853.0	853.9
167.5°	867.4	866.9	866.2	865.5	865.3	865.4	865.5	865.7	865.8	866.8	867.7
170°	875.2	874.7	874.0	873.4	873.1	873.1	873.1	873.1	873.1	874.2	875.2
172.5°	881.5	880.8	880.1	879.6	879.2	879.2	879.2	879.2	879.2	880.2	881.2
175°	887.9	887.2	886.6	886.0	885.7	885.7	885.7	885.7	885.7	886.6	887.6
177.5°	890.6	890.1	889.7	889.2	888.9	888.9	888.9	888.9	888.9	889.7	890.4
180°	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	541.1	541.1	541.8	544.4	544.8	547.1	546.4
5°	594.7	598.8	600.4	607.0	610.9	612.7	609.2
7.5°	660.2	671.9	677.5	684.5	690.5	692.4	687.6
10°	707.9	720.3	730.6	737.0	742.9	746.9	751.9
12.5°	754.1	769.3	779.1	788.1	794.2	799.2	800.0
15°	804.4	827.2	844.5	857.3	863.7	867.0	865.6
17.5°	855.0	876.2	888.5	901.5	910.3	910.8	911.1
20°	883.6	904.3	918.6	928.2	938.1	937.6	939.9
22.5°	902.8	919.1	930.0	937.0	940.4	938.7	939.1
25°	911.7	916.6	914.6	903.4	900.5	890.2	892.0
27.5°	865.5	842.7	819.1	788.7	764.7	745.6	746.5
30°	802.9	762.4	716.3	677.7	643.0	633.3	612.7
32.5°	715.2	654.6	600.6	564.5	534.8	526.7	508.7
35°	566.6	507.7	452.1	418.8	405.6	387.1	386.9
37.5°	440.4	388.5	359.2	334.1	321.0	309.8	308.8
40°	370.4	330.1	307.8	289.8	276.9	268.5	266.6
42.5°	321.6	289.0	268.2	257.0	247.0	242.7	239.5
45°	262.6	240.6	226.2	216.1	211.5	208.2	206.4
47.5°	219.7	205.0	195.1	188.3	184.6	181.2	182.1
50°	196.3	184.3	177.0	170.6	167.8	165.3	165.6
52.5°	177.5	166.6	160.8	156.2	152.7	150.9	150.1
55°	150.6	143.8	137.9	134.6	132.6	130.3	129.6
57.5°	128.5	123.2	118.4	114.7	114.1	111.9	112.2
60°	113.8	109.3	105.4	103.4	101.9	99.9	100.6
62.5°	101.6	97.9	94.3	92.7	91.1	89.7	90.0
65°	83.2	79.7	77.5	76.6	76.0	75.3	74.6
67.5°	66.4	64.2	62.8	60.9	59.6	59.4	58.7
70°	55.8	52.9	50.5	48.1	47.4	47.2	47.4
72.5°	44.7	42.9	42.2	41.1	40.9	40.3	40.7
75°	33.6	32.9	32.5	31.6	31.6	31.6	31.6
77.5°	24.8	24.4	24.1	23.9	23.8	23.4	23.4
80°	19.3	19.1	18.7	18.7	18.5	18.7	18.5
82.5°	14.6	14.5	14.1	14.1	13.9	13.8	13.9
85°	7.4	7.3	7.7	7.3	7.4	7.1	7.4
87.5°	5.8	5.9	5.8	5.9	5.8	6.2	5.9
90°	18.7	19.3	19.7	20.1	20.4	20.6	21.0
92.5°	28.4	28.8	29.0	28.8	28.7	28.5	28.3
95°	53.6	54.3	54.6	54.6	54.6	54.6	54.6
97.5°	83.1	83.9	84.2	84.2	84.1	84.0	84.0
100°	104.2	104.7	105.1	105.4	105.8	106.0	106.3
102.5°	128.8	129.3	129.5	129.5	129.4	129.3	129.3
105°	165.1	165.1	165.2	165.6	165.9	166.2	166.5
107.5°	205.4	205.9	206.0	205.9	205.7	205.5	205.3
110°	232.1	232.6	232.8	232.5	232.1	231.9	231.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	258.7	259.5	259.8	259.8	259.7	259.6	259.6
115°	298.5	298.7	298.7	298.5	298.3	298.2	298.0
117.5°	339.0	339.0	338.8	338.4	337.9	337.5	337.1
120°	366.1	366.0	365.7	365.4	365.1	364.8	364.5
122.5°	393.3	392.9	392.6	392.1	391.6	391.2	390.8
125°	433.9	433.4	432.7	432.2	431.5	430.8	430.3
127.5°	474.1	473.3	472.4	471.7	471.0	470.3	469.6
130°	501.1	500.5	499.6	498.6	497.5	496.4	495.3
132.5°	527.1	526.3	525.6	524.7	523.9	523.0	522.2
135°	566.2	565.6	565.1	564.8	564.5	564.2	563.8
137.5°	604.3	603.7	603.0	602.5	601.8	601.2	600.7
140°	629.9	629.7	629.1	628.0	626.9	625.8	624.7
142.5°	653.4	653.2	652.7	651.9	651.0	650.2	649.3
145°	688.0	687.8	687.4	686.7	686.2	685.5	684.9
147.5°	720.8	720.8	720.3	719.3	718.4	717.5	716.5
150°	740.8	740.8	740.4	739.4	738.6	737.6	736.7
152.5°	759.5	759.8	759.5	758.7	757.9	757.1	756.3
155°	786.8	787.4	787.2	786.1	785.0	783.9	782.9
157.5°	810.0	810.7	810.5	809.6	808.8	807.9	807.0
160°	824.3	825.1	825.2	824.6	824.0	823.3	822.7
162.5°	837.8	838.6	838.5	837.4	836.5	835.5	834.4
165°	854.9	855.8	855.7	854.7	853.6	852.5	851.4
167.5°	868.7	869.7	869.7	868.7	867.7	866.8	865.8
170°	876.4	877.4	877.4	876.4	875.2	874.2	873.1
172.5°	882.1	883.1	883.1	881.9	880.9	879.8	878.7
175°	888.4	889.4	889.4	888.3	887.1	886.1	885.0
177.5°	891.2	891.9	891.8	891.0	890.0	889.2	888.3
180°	890.6	890.6	890.6	890.6	890.6	890.6	890.6

(END OF REPORT)