

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: P332394-830

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332394-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
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-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 755 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4126.7 lumens
Efficiency: N/A
Efficacy: 135.7 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

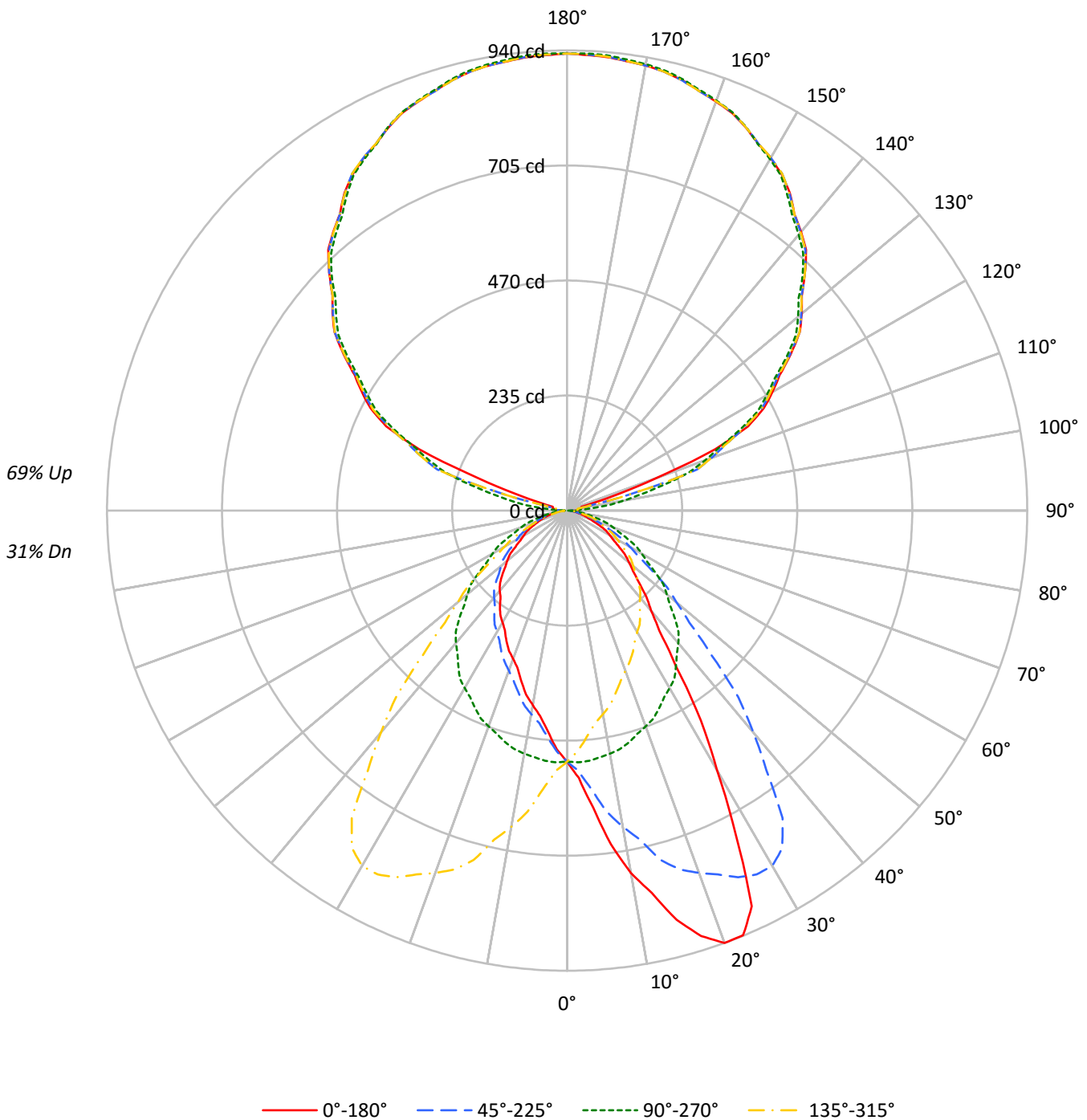
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31	
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	33	35	34	33	27	
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29	31	30	29	23	
3	78	70	63	57	70	63	57	52	50	46	43	39	36	34	28	26	25	28	26	25	20	
4	72	62	54	49	64	56	49	45	45	40	37	35	31	29	25	23	22	25	23	22	17	
5	66	55	47	42	59	50	43	38	40	35	32	31	28	25	23	21	19	23	21	19	15	
6	61	49	42	36	54	45	38	33	36	31	28	28	25	22	21	18	17	21	18	17	14	
7	56	44	37	32	50	40	34	29	33	28	24	26	22	20	19	17	15	19	17	15	12	
8	52	40	33	28	47	37	30	26	30	25	22	23	20	18	17	15	14	17	15	14	11	
9	48	37	30	25	44	34	27	23	27	23	19	22	18	16	16	14	12	16	14	12	10	
10	45	34	27	22	41	31	25	21	25	21	17	20	17	14	15	13	11	15	13	11	9	

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	1.2
10°-20°	157.6	3.8
20°-30°	247.6	6.0
30°-40°	258.3	6.3
40°-50°	221.1	5.4
50°-60°	168.5	4.1
60°-70°	108.0	2.6
70°-80°	52.0	1.3
80°-90°	16.4	0.4
90°-100°	33.9	0.8
100°-110°	161.8	3.9
110°-120°	388.6	9.4
120°-130°	494.8	12.0
130°-140°	528.7	12.8
140°-150°	494.4	12.0
150°-160°	398.8	9.7
160°-170°	257.4	6.2
170°-180°	88.7	2.1
0°-30°	455.6	11.0
0°-40°	714.0	17.3
0°-60°	1103.5	26.7
0°-90°	1279.8	31.0
90°-120°	584.3	14.2
90°-150°	2102.1	50.9
90°-180°	2847.0	69.0
0°-180°	4126.7	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°	26	42	26	42	26	22
105°	30	207	30	207	30	70
115°	408	388	408	388	408	377
125°	558	547	558	547	558	498
135°	687	680	687	680	687	530
145°	793	785	793	785	793	495
155°	864	865	864	865	864	398
165°	910	912	910	912	910	257
175°	930	934	930	934	930	89
180°	934	934	934	934	934	



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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	5.7	5.9	5.8	5.9	5.8	5.7	5.9	5.7	5.4
90°	20.8	20.5	20.2	19.9	19.6	19.1	18.5	17.9	17.2	16.7	14.6
92.5°	23.0	22.8	22.6	22.4	22.2	21.7	20.7	19.7	18.8	17.7	16.2
95°	26.4	26.4	26.4	26.4	26.4	25.8	24.7	23.7	22.6	21.5	19.8
97.5°	28.6	28.5	28.3	28.1	28.0	27.2	26.0	24.8	23.6	22.3	33.5
100°	29.1	28.9	28.8	28.7	28.6	27.8	26.6	25.4	24.1	22.9	46.9
102.5°	29.7	29.4	29.1	28.8	28.6	30.3	34.2	38.0	41.8	45.6	71.9
105°	30.5	30.3	29.9	29.6	29.3	42.8	70.0	97.4	124.6	151.9	165.8
107.5°	95.9	116.4	137.0	157.5	178.1	198.4	218.4	238.4	258.4	278.4	276.3
110°	190.8	212.7	234.8	256.8	278.9	292.5	297.6	302.7	307.7	312.8	311.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	327.3	331.9	336.6	341.2	345.8	348.2	348.1	348.0	347.9	347.8	346.1
115°	407.8	407.2	406.6	406.0	405.4	404.3	402.7	401.2	399.6	398.1	396.7
117.5°	453.1	452.9	452.8	452.7	452.5	451.9	450.6	449.4	448.2	447.0	446.2
120°	484.1	484.1	484.1	484.1	484.1	483.5	482.3	481.1	479.8	478.5	478.2
122.5°	514.6	514.5	514.3	514.3	514.2	513.7	512.7	511.9	511.0	510.2	509.6
125°	557.6	557.3	557.0	556.8	556.4	556.1	555.8	555.4	555.2	554.9	554.2
127.5°	599.0	599.3	599.6	599.9	600.2	600.1	599.6	599.2	598.6	598.1	597.4
130°	625.6	625.9	626.2	626.5	626.9	626.7	626.0	625.5	624.8	624.2	623.6
132.5°	650.0	650.4	650.9	651.3	651.8	651.7	651.0	650.4	649.8	649.2	648.7
135°	687.3	687.8	688.2	688.7	689.2	689.2	688.7	688.2	687.8	687.3	686.7
137.5°	722.5	722.7	723.0	723.4	723.7	723.5	722.7	722.0	721.2	720.5	720.2
140°	743.5	743.9	744.1	744.4	744.8	744.6	743.9	743.4	742.7	742.2	741.7
142.5°	762.9	763.4	763.8	764.2	764.7	764.6	764.1	763.6	763.2	762.7	762.2
145°	792.8	792.8	792.8	792.8	792.8	792.6	792.3	792.0	791.6	791.4	791.1
147.5°	814.9	815.7	816.3	817.1	817.7	818.0	817.7	817.4	817.1	816.7	816.4
150°	831.6	832.1	832.5	833.0	833.5	833.5	833.2	832.9	832.6	832.3	832.0
152.5°	844.9	845.6	846.3	847.1	847.7	847.8	847.3	846.7	846.1	845.6	845.5
155°	863.5	864.4	865.3	866.3	867.2	867.3	866.5	865.7	865.0	864.2	864.0
157.5°	879.2	880.4	881.6	882.8	884.0	884.1	883.2	882.3	881.4	880.4	880.6
160°	889.2	890.2	891.4	892.4	893.5	893.5	892.7	891.7	890.8	889.9	890.0
162.5°	898.6	899.6	900.5	901.4	902.4	902.4	901.4	900.3	899.3	898.1	898.3
165°	909.9	911.1	912.1	913.2	914.3	914.2	912.9	911.7	910.5	909.3	909.5
167.5°	918.1	919.4	920.6	921.9	923.1	923.1	921.9	920.6	919.4	918.1	918.1
170°	923.1	924.4	925.6	926.9	928.1	928.1	926.9	925.6	924.4	923.1	923.1
172.5°	926.0	927.3	928.7	930.0	931.3	931.4	930.2	929.0	927.7	926.5	926.3
175°	930.1	931.3	932.6	933.8	935.0	935.1	934.1	932.9	931.9	930.8	930.7
177.5°	931.3	932.6	933.8	935.0	936.2	936.4	935.4	934.4	933.4	932.5	932.4
180°	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6



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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°	12.6	10.7	8.7	6.9	5.3	3.8	2.3	0.7	2.3	3.8	5.3
92.5°	14.7	13.2	11.7	11.2	11.6	12.1	12.4	12.9	12.4	12.1	11.6
95°	18.1	16.4	14.7	17.1	23.4	29.7	36.0	42.3	36.0	29.7	23.4
97.5°	44.5	55.6	66.7	73.7	76.5	79.4	82.2	85.0	82.2	79.4	76.5
100°	71.0	95.0	119.0	129.5	126.5	123.4	120.3	117.3	120.3	123.4	126.5
102.5°	98.1	124.4	150.7	162.7	160.5	158.3	156.1	153.8	156.1	158.3	160.5
105°	179.6	193.5	207.4	213.5	211.8	210.1	208.4	206.7	208.4	210.1	211.8
107.5°	274.0	271.8	269.7	267.9	266.6	265.1	263.8	262.4	263.8	265.1	266.6
110°	309.4	307.7	306.0	304.5	303.3	302.1	300.9	299.6	300.9	302.1	303.3



TEST NUMBER: P332394-830

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	344.4	342.7	341.0	339.6	338.5	337.3	336.2	335.2	336.2	337.3	338.5
115°	395.3	394.0	392.6	391.4	390.5	389.6	388.6	387.7	388.6	389.6	390.5
117.5°	445.5	444.8	444.1	443.2	442.1	440.9	439.8	438.7	439.8	440.9	442.1
120°	477.7	477.2	476.7	475.8	474.4	473.1	471.6	470.2	471.6	473.1	474.4
122.5°	509.1	508.4	507.8	507.0	505.9	504.7	503.6	502.5	503.6	504.7	505.9
125°	553.6	553.0	552.4	551.5	550.3	549.0	547.8	546.6	547.8	549.0	550.3
127.5°	596.6	596.0	595.2	594.2	593.0	591.7	590.5	589.3	590.5	591.7	593.0
130°	623.0	622.4	621.8	620.9	619.6	618.4	617.2	615.9	617.2	618.4	619.6
132.5°	648.2	647.7	647.2	646.4	645.1	643.9	642.6	641.4	642.6	643.9	645.1
135°	686.1	685.5	684.9	684.1	683.2	682.2	681.4	680.4	681.4	682.2	683.2
137.5°	719.8	719.4	719.2	718.4	717.2	716.0	714.8	713.7	714.8	716.0	717.2
140°	741.2	740.7	740.3	739.6	738.7	737.7	736.8	735.8	736.8	737.7	738.7
142.5°	761.8	761.3	760.8	760.2	759.2	758.3	757.3	756.4	757.3	758.3	759.2
145°	790.8	790.4	790.1	789.5	788.3	787.3	786.2	785.1	786.2	787.3	788.3
147.5°	816.1	815.9	815.5	815.0	814.3	813.6	812.8	812.2	812.8	813.6	814.3
150°	831.7	831.4	831.0	830.7	830.2	829.7	829.2	828.9	829.2	829.7	830.2
152.5°	845.3	845.1	844.9	844.7	844.4	844.2	844.0	843.8	844.0	844.2	844.4
155°	863.9	863.7	863.6	863.7	863.9	864.3	864.6	864.9	864.6	864.3	863.9
157.5°	880.7	880.9	881.1	881.2	881.2	881.2	881.3	881.3	881.3	881.2	881.2
160°	890.1	890.3	890.5	890.6	890.8	891.0	891.1	891.3	891.1	891.0	890.8
162.5°	898.5	898.6	898.8	899.1	899.5	899.8	900.3	900.7	900.3	899.8	899.5
165°	909.6	909.7	909.9	910.2	910.7	911.2	911.6	912.1	911.6	911.2	910.7
167.5°	918.1	918.1	918.1	918.5	919.1	919.7	920.3	921.0	920.3	919.7	919.1
170°	923.1	923.1	923.1	923.5	924.1	924.7	925.3	926.0	925.3	924.7	924.1
172.5°	926.2	926.1	926.0	926.3	927.1	927.7	928.5	929.3	928.5	927.7	927.1
175°	930.5	930.3	930.2	930.5	931.2	932.0	932.7	933.6	932.7	932.0	931.2
177.5°	932.2	932.1	932.0	932.2	932.8	933.4	934.1	934.6	934.1	933.4	932.8
180°	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6



TEST NUMBER: P332394-830

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

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	8.3	8.9	9.1	9.4	9.5	9.8	10.0	10.1
90°	6.9	8.7	10.7	12.6	14.6	16.7	17.2	17.9	18.5	19.1	19.6
92.5°	11.2	11.7	13.2	14.7	16.2	17.7	18.8	19.7	20.7	21.7	22.2
95°	17.1	14.7	16.4	18.1	19.8	21.5	22.6	23.7	24.7	25.8	26.4
97.5°	73.7	66.7	55.6	44.5	33.5	22.3	23.6	24.8	26.0	27.2	28.0
100°	129.5	119.0	95.0	71.0	46.9	22.9	24.1	25.4	26.6	27.8	28.6
102.5°	162.7	150.7	124.4	98.1	71.9	45.6	41.8	38.0	34.2	30.3	28.6
105°	213.5	207.4	193.5	179.6	165.8	151.9	124.6	97.4	70.0	42.8	29.3
107.5°	267.9	269.7	271.8	274.0	276.3	278.4	258.4	238.4	218.4	198.4	178.1
110°	304.5	306.0	307.7	309.4	311.1	312.8	307.7	302.7	297.6	292.5	278.9



TEST NUMBER: P332394-830

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	339.6	341.0	342.7	344.4	346.1	347.8	347.9	348.0	348.1	348.2	345.8
115°	391.4	392.6	394.0	395.3	396.7	398.1	399.6	401.2	402.7	404.3	405.4
117.5°	443.2	444.1	444.8	445.5	446.2	447.0	448.2	449.4	450.6	451.9	452.5
120°	475.8	476.7	477.2	477.7	478.2	478.5	479.8	481.1	482.3	483.5	484.1
122.5°	507.0	507.8	508.4	509.1	509.6	510.2	511.0	511.9	512.7	513.7	514.2
125°	551.5	552.4	553.0	553.6	554.2	554.9	555.2	555.4	555.8	556.1	556.4
127.5°	594.2	595.2	596.0	596.6	597.4	598.1	598.6	599.2	599.6	600.1	600.2
130°	620.9	621.8	622.4	623.0	623.6	624.2	624.8	625.5	626.0	626.7	626.9
132.5°	646.4	647.2	647.7	648.2	648.7	649.2	649.8	650.4	651.0	651.7	651.8
135°	684.1	684.9	685.5	686.1	686.7	687.3	687.8	688.2	688.7	689.2	689.2
137.5°	718.4	719.2	719.4	719.8	720.2	720.5	721.2	722.0	722.7	723.5	723.7
140°	739.6	740.3	740.7	741.2	741.7	742.2	742.7	743.4	743.9	744.6	744.8
142.5°	760.2	760.8	761.3	761.8	762.2	762.7	763.2	763.6	764.1	764.6	764.7
145°	789.5	790.1	790.4	790.8	791.1	791.4	791.6	792.0	792.3	792.6	792.8
147.5°	815.0	815.5	815.9	816.1	816.4	816.7	817.1	817.4	817.7	818.0	817.7
150°	830.7	831.0	831.4	831.7	832.0	832.3	832.6	832.9	833.2	833.5	833.5
152.5°	844.7	844.9	845.1	845.3	845.5	845.6	846.1	846.7	847.3	847.8	847.7
155°	863.7	863.6	863.7	863.9	864.0	864.2	865.0	865.7	866.5	867.3	867.2
157.5°	881.2	881.1	880.9	880.7	880.6	880.4	881.4	882.3	883.2	884.1	884.0
160°	890.6	890.5	890.3	890.1	890.0	889.9	890.8	891.7	892.7	893.5	893.5
162.5°	899.1	898.8	898.6	898.5	898.3	898.1	899.3	900.3	901.4	902.4	902.4
165°	910.2	909.9	909.7	909.6	909.5	909.3	910.5	911.7	912.9	914.2	914.3
167.5°	918.5	918.1	918.1	918.1	918.1	918.1	919.4	920.6	921.9	923.1	923.1
170°	923.5	923.1	923.1	923.1	923.1	923.1	924.4	925.6	926.9	928.1	928.1
172.5°	926.3	926.0	926.1	926.2	926.3	926.5	927.7	929.0	930.2	931.4	931.3
175°	930.5	930.2	930.3	930.5	930.7	930.8	931.9	932.9	934.1	935.1	935.0
177.5°	932.2	932.0	932.1	932.2	932.4	932.5	933.4	934.4	935.4	936.4	936.2
180°	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6



TEST NUMBER: P332394-830

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

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°	10.5	10.2	10.3	10.5	10.3	10.2	10.5	10.1	10.0	9.8	9.5
90°	19.9	20.2	20.5	20.8	20.5	20.2	19.9	19.6	19.1	18.5	17.9
92.5°	22.4	22.6	22.8	23.0	22.8	22.6	22.4	22.2	21.7	20.7	19.7
95°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	25.8	24.7	23.7
97.5°	28.1	28.3	28.5	28.6	28.5	28.3	28.1	28.0	27.2	26.0	24.8
100°	28.7	28.8	28.9	29.1	28.9	28.8	28.7	28.6	27.8	26.6	25.4
102.5°	28.8	29.1	29.4	29.7	29.4	29.1	28.8	28.6	30.3	34.2	38.0
105°	29.6	29.9	30.3	30.5	30.3	29.9	29.6	29.3	42.8	70.0	97.4
107.5°	157.5	137.0	116.4	95.9	116.4	137.0	157.5	178.1	198.4	218.4	238.4
110°	256.8	234.8	212.7	190.8	212.7	234.8	256.8	278.9	292.5	297.6	302.7



TEST NUMBER: P332394-830

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	341.2	336.6	331.9	327.3	331.9	336.6	341.2	345.8	348.2	348.1	348.0
115°	406.0	406.6	407.2	407.8	407.2	406.6	406.0	405.4	404.3	402.7	401.2
117.5°	452.7	452.8	452.9	453.1	452.9	452.8	452.7	452.5	451.9	450.6	449.4
120°	484.1	484.1	484.1	484.1	484.1	484.1	484.1	484.1	483.5	482.3	481.1
122.5°	514.3	514.3	514.5	514.6	514.5	514.3	514.3	514.2	513.7	512.7	511.9
125°	556.8	557.0	557.3	557.6	557.3	557.0	556.8	556.4	556.1	555.8	555.4
127.5°	599.9	599.6	599.3	599.0	599.3	599.6	599.9	600.2	600.1	599.6	599.2
130°	626.5	626.2	625.9	625.6	625.9	626.2	626.5	626.9	626.7	626.0	625.5
132.5°	651.3	650.9	650.4	650.0	650.4	650.9	651.3	651.8	651.7	651.0	650.4
135°	688.7	688.2	687.8	687.3	687.8	688.2	688.7	689.2	689.2	688.7	688.2
137.5°	723.4	723.0	722.7	722.5	722.7	723.0	723.4	723.7	723.5	722.7	722.0
140°	744.4	744.1	743.9	743.5	743.9	744.1	744.4	744.8	744.6	743.9	743.4
142.5°	764.2	763.8	763.4	762.9	763.4	763.8	764.2	764.7	764.6	764.1	763.6
145°	792.8	792.8	792.8	792.8	792.8	792.8	792.8	792.8	792.6	792.3	792.0
147.5°	817.1	816.3	815.7	814.9	815.7	816.3	817.1	817.7	818.0	817.7	817.4
150°	833.0	832.5	832.1	831.6	832.1	832.5	833.0	833.5	833.5	833.2	832.9
152.5°	847.1	846.3	845.6	844.9	845.6	846.3	847.1	847.7	847.8	847.3	846.7
155°	866.3	865.3	864.4	863.5	864.4	865.3	866.3	867.2	867.3	866.5	865.7
157.5°	882.8	881.6	880.4	879.2	880.4	881.6	882.8	884.0	884.1	883.2	882.3
160°	892.4	891.4	890.2	889.2	890.2	891.4	892.4	893.5	893.5	892.7	891.7
162.5°	901.4	900.5	899.6	898.6	899.6	900.5	901.4	902.4	902.4	901.4	900.3
165°	913.2	912.1	911.1	909.9	911.1	912.1	913.2	914.3	914.2	912.9	911.7
167.5°	921.9	920.6	919.4	918.1	919.4	920.6	921.9	923.1	923.1	921.9	920.6
170°	926.9	925.6	924.4	923.1	924.4	925.6	926.9	928.1	928.1	926.9	925.6
172.5°	930.0	928.7	927.3	926.0	927.3	928.7	930.0	931.3	931.4	930.2	929.0
175°	933.8	932.6	931.3	930.1	931.3	932.6	933.8	935.0	935.1	934.1	932.9
177.5°	935.0	933.8	932.6	931.3	932.6	933.8	935.0	936.2	936.4	935.4	934.4
180°	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6



TEST NUMBER: P332394-830

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

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	8.9	8.3	7.7	7.2	6.3	6.1	5.8	6.2	5.7
90°	17.2	16.7	14.6	12.6	10.7	8.7	6.9	5.3	3.8	2.3	0.7
92.5°	18.8	17.7	16.2	14.7	13.2	11.7	11.2	11.6	12.1	12.4	12.9
95°	22.6	21.5	19.8	18.1	16.4	14.7	17.1	23.4	29.7	36.0	42.3
97.5°	23.6	22.3	33.5	44.5	55.6	66.7	73.7	76.5	79.4	82.2	85.0
100°	24.1	22.9	46.9	71.0	95.0	119.0	129.5	126.5	123.4	120.3	117.3
102.5°	41.8	45.6	71.9	98.1	124.4	150.7	162.7	160.5	158.3	156.1	153.8
105°	124.6	151.9	165.8	179.6	193.5	207.4	213.5	211.8	210.1	208.4	206.7
107.5°	258.4	278.4	276.3	274.0	271.8	269.7	267.9	266.6	265.1	263.8	262.4
110°	307.7	312.8	311.1	309.4	307.7	306.0	304.5	303.3	302.1	300.9	299.6



TEST NUMBER: P332394-830

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	347.9	347.8	346.1	344.4	342.7	341.0	339.6	338.5	337.3	336.2	335.2
115°	399.6	398.1	396.7	395.3	394.0	392.6	391.4	390.5	389.6	388.6	387.7
117.5°	448.2	447.0	446.2	445.5	444.8	444.1	443.2	442.1	440.9	439.8	438.7
120°	479.8	478.5	478.2	477.7	477.2	476.7	475.8	474.4	473.1	471.6	470.2
122.5°	511.0	510.2	509.6	509.1	508.4	507.8	507.0	505.9	504.7	503.6	502.5
125°	555.2	554.9	554.2	553.6	553.0	552.4	551.5	550.3	549.0	547.8	546.6
127.5°	598.6	598.1	597.4	596.6	596.0	595.2	594.2	593.0	591.7	590.5	589.3
130°	624.8	624.2	623.6	623.0	622.4	621.8	620.9	619.6	618.4	617.2	615.9
132.5°	649.8	649.2	648.7	648.2	647.7	647.2	646.4	645.1	643.9	642.6	641.4
135°	687.8	687.3	686.7	686.1	685.5	684.9	684.1	683.2	682.2	681.4	680.4
137.5°	721.2	720.5	720.2	719.8	719.4	719.2	718.4	717.2	716.0	714.8	713.7
140°	742.7	742.2	741.7	741.2	740.7	740.3	739.6	738.7	737.7	736.8	735.8
142.5°	763.2	762.7	762.2	761.8	761.3	760.8	760.2	759.2	758.3	757.3	756.4
145°	791.6	791.4	791.1	790.8	790.4	790.1	789.5	788.3	787.3	786.2	785.1
147.5°	817.1	816.7	816.4	816.1	815.9	815.5	815.0	814.3	813.6	812.8	812.2
150°	832.6	832.3	832.0	831.7	831.4	831.0	830.7	830.2	829.7	829.2	828.9
152.5°	846.1	845.6	845.5	845.3	845.1	844.9	844.7	844.4	844.2	844.0	843.8
155°	865.0	864.2	864.0	863.9	863.7	863.6	863.7	863.9	864.3	864.6	864.9
157.5°	881.4	880.4	880.6	880.7	880.9	881.1	881.2	881.2	881.2	881.3	881.3
160°	890.8	889.9	890.0	890.1	890.3	890.5	890.6	890.8	891.0	891.1	891.3
162.5°	899.3	898.1	898.3	898.5	898.6	898.8	899.1	899.5	899.8	900.3	900.7
165°	910.5	909.3	909.5	909.6	909.7	909.9	910.2	910.7	911.2	911.6	912.1
167.5°	919.4	918.1	918.1	918.1	918.1	918.1	918.5	919.1	919.7	920.3	921.0
170°	924.4	923.1	923.1	923.1	923.1	923.1	923.5	924.1	924.7	925.3	926.0
172.5°	927.7	926.5	926.3	926.2	926.1	926.0	926.3	927.1	927.7	928.5	929.3
175°	931.9	930.8	930.7	930.5	930.3	930.2	930.5	931.2	932.0	932.7	933.6
177.5°	933.4	932.5	932.4	932.2	932.1	932.0	932.2	932.8	933.4	934.1	934.6
180°	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6



TEST NUMBER: P332394-830

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

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	5.3	6.9	8.7	10.7	12.6	14.6	16.7	17.2	17.9
92.5°	12.4	12.1	11.6	11.2	11.7	13.2	14.7	16.2	17.7	18.8	19.7
95°	36.0	29.7	23.4	17.1	14.7	16.4	18.1	19.8	21.5	22.6	23.7
97.5°	82.2	79.4	76.5	73.7	66.7	55.6	44.5	33.5	22.3	23.6	24.8
100°	120.3	123.4	126.5	129.5	119.0	95.0	71.0	46.9	22.9	24.1	25.4
102.5°	156.1	158.3	160.5	162.7	150.7	124.4	98.1	71.9	45.6	41.8	38.0
105°	208.4	210.1	211.8	213.5	207.4	193.5	179.6	165.8	151.9	124.6	97.4
107.5°	263.8	265.1	266.6	267.9	269.7	271.8	274.0	276.3	278.4	258.4	238.4
110°	300.9	302.1	303.3	304.5	306.0	307.7	309.4	311.1	312.8	307.7	302.7



TEST NUMBER: P332394-830

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	336.2	337.3	338.5	339.6	341.0	342.7	344.4	346.1	347.8	347.9	348.0
115°	388.6	389.6	390.5	391.4	392.6	394.0	395.3	396.7	398.1	399.6	401.2
117.5°	439.8	440.9	442.1	443.2	444.1	444.8	445.5	446.2	447.0	448.2	449.4
120°	471.6	473.1	474.4	475.8	476.7	477.2	477.7	478.2	478.5	479.8	481.1
122.5°	503.6	504.7	505.9	507.0	507.8	508.4	509.1	509.6	510.2	511.0	511.9
125°	547.8	549.0	550.3	551.5	552.4	553.0	553.6	554.2	554.9	555.2	555.4
127.5°	590.5	591.7	593.0	594.2	595.2	596.0	596.6	597.4	598.1	598.6	599.2
130°	617.2	618.4	619.6	620.9	621.8	622.4	623.0	623.6	624.2	624.8	625.5
132.5°	642.6	643.9	645.1	646.4	647.2	647.7	648.2	648.7	649.2	649.8	650.4
135°	681.4	682.2	683.2	684.1	684.9	685.5	686.1	686.7	687.3	687.8	688.2
137.5°	714.8	716.0	717.2	718.4	719.2	719.4	719.8	720.2	720.5	721.2	722.0
140°	736.8	737.7	738.7	739.6	740.3	740.7	741.2	741.7	742.2	742.7	743.4
142.5°	757.3	758.3	759.2	760.2	760.8	761.3	761.8	762.2	762.7	763.2	763.6
145°	786.2	787.3	788.3	789.5	790.1	790.4	790.8	791.1	791.4	791.6	792.0
147.5°	812.8	813.6	814.3	815.0	815.5	815.9	816.1	816.4	816.7	817.1	817.4
150°	829.2	829.7	830.2	830.7	831.0	831.4	831.7	832.0	832.3	832.6	832.9
152.5°	844.0	844.2	844.4	844.7	844.9	845.1	845.3	845.5	845.6	846.1	846.7
155°	864.6	864.3	863.9	863.7	863.6	863.7	863.9	864.0	864.2	865.0	865.7
157.5°	881.3	881.2	881.2	881.2	881.1	880.9	880.7	880.6	880.4	881.4	882.3
160°	891.1	891.0	890.8	890.6	890.5	890.3	890.1	890.0	889.9	890.8	891.7
162.5°	900.3	899.8	899.5	899.1	898.8	898.6	898.5	898.3	898.1	899.3	900.3
165°	911.6	911.2	910.7	910.2	909.9	909.7	909.6	909.5	909.3	910.5	911.7
167.5°	920.3	919.7	919.1	918.5	918.1	918.1	918.1	918.1	918.1	919.4	920.6
170°	925.3	924.7	924.1	923.5	923.1	923.1	923.1	923.1	923.1	924.4	925.6
172.5°	928.5	927.7	927.1	926.3	926.0	926.1	926.2	926.3	926.5	927.7	929.0
175°	932.7	932.0	931.2	930.5	930.2	930.3	930.5	930.7	930.8	931.9	932.9
177.5°	934.1	933.4	932.8	932.2	932.0	932.1	932.2	932.4	932.5	933.4	934.4
180°	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6



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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	5.7	6.2	5.9
90°	18.5	19.1	19.6	19.9	20.2	20.5	20.8
92.5°	20.7	21.7	22.2	22.4	22.6	22.8	23.0
95°	24.7	25.8	26.4	26.4	26.4	26.4	26.4
97.5°	26.0	27.2	28.0	28.1	28.3	28.5	28.6
100°	26.6	27.8	28.6	28.7	28.8	28.9	29.1
102.5°	34.2	30.3	28.6	28.8	29.1	29.4	29.7
105°	70.0	42.8	29.3	29.6	29.9	30.3	30.5
107.5°	218.4	198.4	178.1	157.5	137.0	116.4	95.9
110°	297.6	292.5	278.9	256.8	234.8	212.7	190.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	348.1	348.2	345.8	341.2	336.6	331.9	327.3
115°	402.7	404.3	405.4	406.0	406.6	407.2	407.8
117.5°	450.6	451.9	452.5	452.7	452.8	452.9	453.1
120°	482.3	483.5	484.1	484.1	484.1	484.1	484.1
122.5°	512.7	513.7	514.2	514.3	514.3	514.5	514.6
125°	555.8	556.1	556.4	556.8	557.0	557.3	557.6
127.5°	599.6	600.1	600.2	599.9	599.6	599.3	599.0
130°	626.0	626.7	626.9	626.5	626.2	625.9	625.6
132.5°	651.0	651.7	651.8	651.3	650.9	650.4	650.0
135°	688.7	689.2	689.2	688.7	688.2	687.8	687.3
137.5°	722.7	723.5	723.7	723.4	723.0	722.7	722.5
140°	743.9	744.6	744.8	744.4	744.1	743.9	743.5
142.5°	764.1	764.6	764.7	764.2	763.8	763.4	762.9
145°	792.3	792.6	792.8	792.8	792.8	792.8	792.8
147.5°	817.7	818.0	817.7	817.1	816.3	815.7	814.9
150°	833.2	833.5	833.5	833.0	832.5	832.1	831.6
152.5°	847.3	847.8	847.7	847.1	846.3	845.6	844.9
155°	866.5	867.3	867.2	866.3	865.3	864.4	863.5
157.5°	883.2	884.1	884.0	882.8	881.6	880.4	879.2
160°	892.7	893.5	893.5	892.4	891.4	890.2	889.2
162.5°	901.4	902.4	902.4	901.4	900.5	899.6	898.6
165°	912.9	914.2	914.3	913.2	912.1	911.1	909.9
167.5°	921.9	923.1	923.1	921.9	920.6	919.4	918.1
170°	926.9	928.1	928.1	926.9	925.6	924.4	923.1
172.5°	930.2	931.4	931.3	930.0	928.7	927.3	926.0
175°	934.1	935.1	935.0	933.8	932.6	931.3	930.1
177.5°	935.4	936.4	936.2	935.0	933.8	932.6	931.3
180°	933.6	933.6	933.6	933.6	933.6	933.6	933.6

(END OF REPORT)