

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: P333016-830

Luminaire Tested: **S124RDIW-S350D470U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333016-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S350D470U830-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2933.3 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

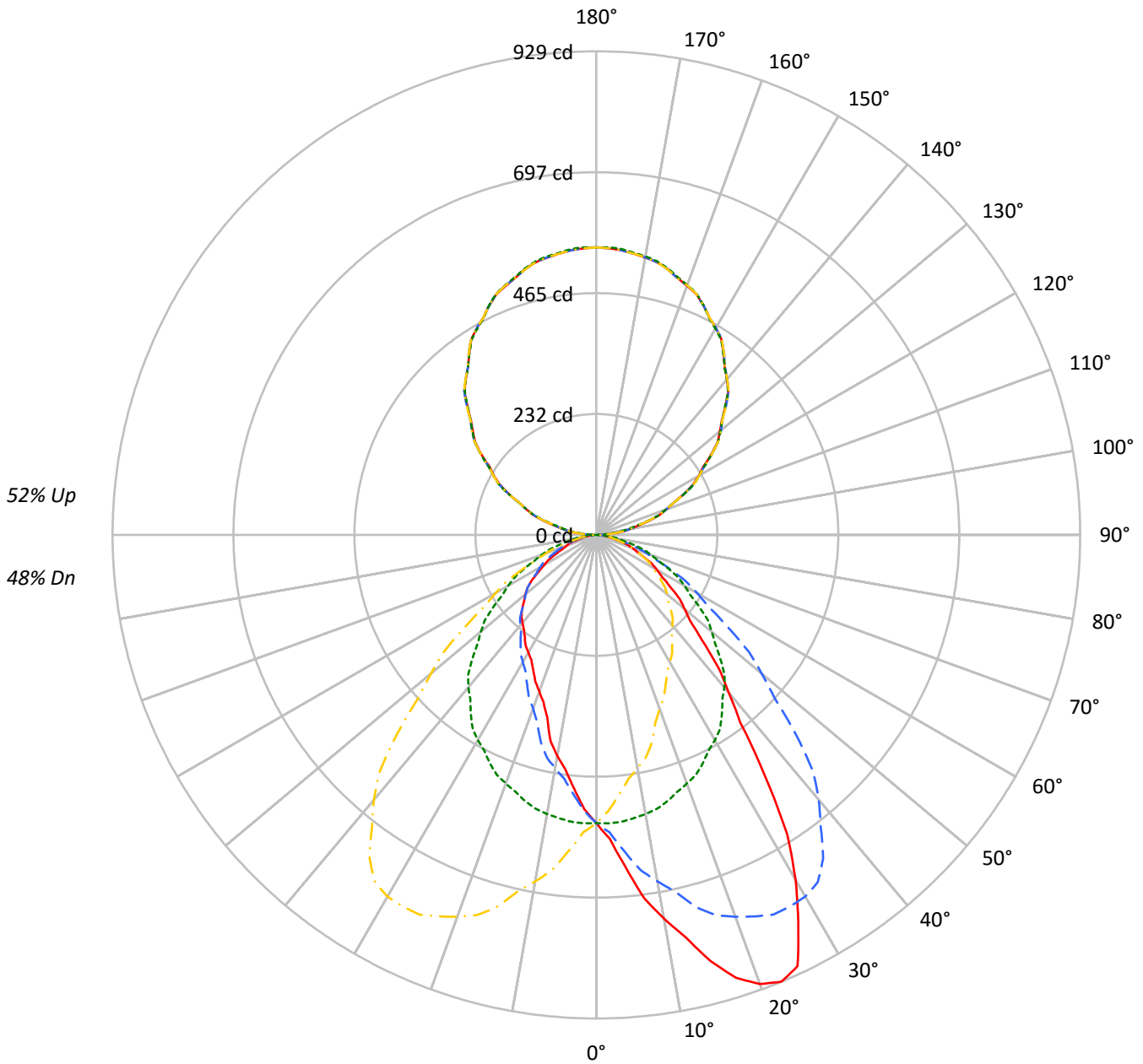
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48																												
1	98	94	90	87	90	86	83	80	73	70	68	60	59	57	48	47	47	41																												
2	89	82	76	71	82	76	71	67	64	60	57	53	51	48	43	41	40	35																												
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	39	36	34	30																												
4	75	64	57	51	69	60	53	48	51	46	42	42	39	36	35	32	30	26																												
5	69	58	50	44	63	53	47	41	46	40	36	38	34	31	31	29	26	23																												
6	64	52	44	38	58	48	41	36	41	36	32	35	31	27	29	26	23	20																												
7	59	47	39	34	54	44	37	32	37	32	28	32	28	24	26	23	21	18																												
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16																												
9	51	39	32	27	47	36	30	25	31	26	22	27	23	20	22	19	17	15																												
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	15	13																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4469	4469	4469	4469
5°	5185	4483	3963	4483
10°	6133	4464	3536	4464
15°	7084	4422	3039	4422
20°	7887	4365	2748	4365
25°	8143	4309	2551	4309
30°	7128	4242	2433	4242
35°	5549	4142	2361	4142
40°	4161	4027	2323	4027
45°	3286	3843	2302	3843
50°	2773	3631	2236	3631
55°	2417	3398	2115	3398
60°	2175	3155	1873	3155
65°	1918	2894	1612	2894
70°	1725	2622	1452	2622
75°	1447	2324	1238	2324
80°	1223	1980	1162	1980
85°	1028	1556	1028	1556



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	1.8
10°-20°	161.8	5.5
20°-30°	253.1	8.6
30°-40°	281.4	9.6
40°-50°	249.6	8.5
50°-60°	194.5	6.6
60°-70°	127.4	4.3
70°-80°	62.6	2.1
80°-90°	17.1	0.6
90°-100°	36.4	1.2
100°-110°	107.9	3.7
110°-120°	183.1	6.2
120°-130°	241.5	8.2
130°-140°	271.2	9.2
140°-150°	266.5	9.1
150°-160°	224.1	7.6
160°-170°	149.1	5.1
170°-180°	52.2	1.8
0°-30°	468.6	16.0
0°-40°	749.9	25.6
0°-60°	1194.1	40.7
0°-90°	1401.2	47.8
90°-120°	327.5	11.2
90°-150°	1106.7	37.7
90°-180°	1532.0	52.2
0°-180°	2933.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	554	554	554	554	554	
5°	640	553	489	553	640	65
15°	848	529	364	529	848	241
25°	914	484	286	484	914	406
35°	563	420	240	420	563	353
45°	288	337	202	337	288	228
55°	172	241	150	241	172	156
65°	100	152	84	152	100	101
75°	46	74	40	74	46	51
85°	11	17	11	17	11	13
90°	13	1	13	1	13	7
95°	34	26	34	26	34	35
105°	104	100	104	100	104	110
115°	184	186	184	186	184	182
125°	269	271	269	271	269	240
135°	350	350	350	350	350	270
145°	425	425	425	425	425	266
155°	486	487	486	487	486	224
165°	529	530	529	530	529	149
175°	549	551	549	551	549	52
180°	552	552	552	552	552	



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	584.0	585.6	584.0	583.8	582.0	581.5	580.8	578.4	574.2	571.7	572.2
5°	639.8	645.4	642.2	641.8	636.9	632.0	628.9	621.7	614.1	609.0	604.7
7.5°	704.3	707.5	705.5	702.4	694.5	689.9	682.7	673.4	659.7	649.3	639.8
10°	748.2	750.8	750.0	744.1	738.4	726.5	719.8	706.7	689.5	675.9	663.2
12.5°	791.4	794.2	786.4	786.6	775.6	766.3	755.7	739.1	719.3	701.8	685.9
15°	847.6	844.0	844.0	839.6	827.4	814.5	803.5	786.1	761.1	740.2	718.0
17.5°	891.7	893.0	891.2	880.6	871.0	857.6	837.5	817.3	794.1	765.9	743.4
20°	918.1	918.1	916.2	909.0	896.5	882.2	860.6	838.5	809.1	780.7	755.4
22.5°	928.9	929.5	927.2	921.3	910.1	896.2	877.7	855.3	824.9	793.1	761.6
25°	914.2	918.4	918.8	917.3	913.9	905.4	889.6	866.7	839.4	804.8	770.9
27.5°	839.2	844.6	849.3	857.1	867.3	872.6	873.4	861.7	837.9	804.6	770.5
30°	764.7	769.1	783.6	802.6	817.3	830.7	842.4	845.5	832.1	802.2	766.3
32.5°	681.8	688.0	702.5	722.8	747.3	770.1	796.1	809.4	809.0	791.1	757.9
35°	563.0	567.5	580.9	602.3	631.7	665.4	706.7	738.8	760.6	759.1	738.8
37.5°	454.1	459.1	472.6	490.4	519.0	560.6	600.6	644.9	685.2	707.9	701.2
40°	394.8	395.0	408.2	426.5	453.3	489.7	533.1	582.2	627.3	664.1	671.2
42.5°	348.1	348.1	356.8	376.5	395.8	430.0	471.6	520.3	573.1	615.6	634.4
45°	287.8	289.7	296.9	308.7	323.9	352.9	386.2	431.4	490.5	540.9	572.4
47.5°	243.6	246.7	251.2	260.8	272.9	292.2	319.7	360.4	408.5	463.9	508.7
50°	220.8	221.3	227.1	232.4	242.9	258.4	282.4	316.3	360.5	413.8	463.5
52.5°	201.2	201.1	204.6	211.4	219.9	231.9	251.4	282.2	321.4	369.2	420.6
55°	171.7	172.9	175.6	180.9	187.4	195.9	211.2	234.4	265.2	306.0	352.7
57.5°	149.4	150.0	152.0	154.3	160.2	166.5	178.0	194.1	220.0	253.4	296.9
60°	134.7	135.0	135.6	138.9	143.6	149.5	157.3	170.9	192.7	223.3	257.7
62.5°	120.5	120.8	121.9	124.3	128.0	132.0	140.2	151.1	169.2	195.3	226.2
65°	100.4	100.6	102.2	103.0	105.9	109.5	115.6	122.9	135.4	157.3	180.7
67.5°	83.9	83.9	84.0	85.2	87.2	89.5	93.1	99.1	108.5	121.9	142.5
70°	73.1	73.1	73.6	74.3	75.4	77.4	79.5	83.9	90.8	101.7	117.5
72.5°	63.2	63.3	63.8	63.9	64.5	66.2	67.7	70.5	75.6	83.9	96.7
75°	46.4	47.0	48.2	49.1	50.2	50.0	51.6	53.3	54.9	59.8	67.1
77.5°	34.5	34.2	34.3	35.1	35.2	35.4	36.6	37.9	39.1	41.4	44.0
80°	26.3	26.3	27.0	27.2	27.0	27.2	28.4	29.0	29.4	30.3	32.8
82.5°	19.9	20.3	20.1	20.3	20.4	20.6	21.6	21.7	22.1	22.5	23.5
85°	11.1	11.4	11.6	11.1	11.1	11.1	11.6	11.8	12.3	12.1	12.5
87.5°	6.5	6.3	6.4	6.4	6.5	6.2	6.3	6.6	6.1	6.1	6.0
90°	12.8	12.6	12.4	12.3	12.1	11.7	11.1	10.6	10.0	9.4	8.7
92.5°	18.9	18.9	18.8	18.7	18.5	18.3	17.9	17.6	17.2	16.9	16.4
95°	33.7	33.7	33.7	33.7	33.7	33.6	33.3	33.0	32.7	32.4	31.8
97.5°	52.9	52.9	52.9	52.9	52.9	52.7	52.4	52.0	51.7	51.4	50.5
100°	66.2	66.2	66.2	66.2	66.2	66.1	65.9	65.7	65.5	65.3	64.5
102.5°	81.2	81.2	81.1	81.0	81.0	80.8	80.5	80.2	79.9	79.7	78.9
105°	104.2	104.0	103.7	103.4	103.1	102.8	102.5	102.3	101.9	101.6	101.2
107.5°	126.6	126.6	126.7	126.7	126.7	126.6	126.3	126.0	125.7	125.5	125.5
110°	142.6	142.3	142.0	141.8	141.5	141.5	141.7	141.9	142.0	142.2	142.3



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	159.0	159.0	158.9	158.9	158.8	158.8	158.8	158.9	158.9	159.0	159.1
115°	184.5	184.6	184.7	184.8	184.9	185.0	185.1	185.2	185.3	185.4	185.6
117.5°	208.8	209.0	209.2	209.3	209.5	209.8	210.1	210.5	210.8	211.0	211.2
120°	227.2	227.1	226.9	226.7	226.5	226.6	227.1	227.5	228.0	228.5	228.8
122.5°	242.6	242.9	243.3	243.6	243.9	244.3	244.6	245.0	245.2	245.6	245.7
125°	269.1	269.3	269.5	269.7	269.8	270.0	270.2	270.4	270.6	270.8	270.9
127.5°	293.6	293.8	293.9	294.1	294.2	294.4	294.5	294.7	294.9	295.1	295.3
130°	309.6	310.0	310.4	310.8	311.1	311.4	311.6	311.8	312.0	312.2	312.2
132.5°	326.8	326.9	327.1	327.2	327.3	327.5	327.7	327.9	328.1	328.3	328.4
135°	350.2	350.5	350.8	351.1	351.4	351.6	351.8	351.9	352.1	352.3	352.3
137.5°	374.9	374.8	374.8	374.8	374.7	374.8	375.0	375.2	375.5	375.8	375.6
140°	389.9	390.0	390.1	390.2	390.3	390.4	390.5	390.6	390.7	390.8	390.8
142.5°	405.0	405.0	405.0	405.0	405.0	405.1	405.1	405.1	405.1	405.1	405.2
145°	425.4	425.7	425.9	426.2	426.5	426.7	426.8	426.9	427.0	427.1	427.0
147.5°	446.1	446.2	446.3	446.4	446.5	446.6	446.6	446.7	446.8	446.9	447.0
150°	458.7	458.8	458.9	459.0	459.1	459.1	459.1	459.1	459.1	459.1	459.1
152.5°	470.3	470.6	470.8	471.1	471.3	471.4	471.1	470.9	470.6	470.4	470.3
155°	486.4	486.8	487.2	487.6	488.0	488.0	487.6	487.2	486.8	486.4	486.5
157.5°	500.9	501.2	501.5	501.9	502.2	502.2	501.9	501.6	501.3	501.1	501.1
160°	509.1	509.5	510.1	510.6	511.0	511.1	510.9	510.6	510.3	510.0	510.1
162.5°	517.6	518.1	518.6	519.1	519.5	519.5	519.1	518.5	518.0	517.5	517.6
165°	528.8	529.1	529.5	529.9	530.3	530.2	529.6	529.0	528.5	527.9	528.1
167.5°	536.7	537.2	537.9	538.5	539.0	539.0	538.5	537.9	537.3	536.8	536.8
170°	541.1	541.8	542.4	543.1	543.8	543.8	543.3	542.7	542.2	541.6	541.5
172.5°	544.9	545.5	546.2	546.9	547.5	547.5	547.0	546.3	545.6	545.0	545.0
175°	548.8	549.5	550.2	550.8	551.5	551.5	550.8	550.2	549.5	548.8	548.9
177.5°	550.9	551.5	552.1	552.7	553.3	553.4	552.8	552.3	551.8	551.2	551.2
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	570.4	568.0	566.7	563.8	560.4	558.6	557.0	554.7	551.7	548.5	546.2
5°	599.4	594.0	587.3	579.3	572.2	565.2	559.2	553.2	546.3	539.1	532.1
7.5°	629.1	618.6	607.2	594.0	581.3	569.6	558.8	548.7	537.1	526.6	517.2
10°	649.8	635.6	619.7	602.9	586.3	571.7	557.4	544.5	530.3	517.6	506.8
12.5°	666.6	649.8	630.7	609.9	589.7	572.2	555.8	538.9	522.7	509.0	494.6
15°	694.4	671.5	645.8	620.8	594.7	570.8	548.7	529.1	510.6	491.2	477.6
17.5°	713.6	686.3	655.1	625.1	594.3	566.1	540.6	517.3	495.9	476.1	459.9
20°	725.0	694.8	660.3	626.1	591.5	561.5	534.0	508.1	486.1	464.7	447.9
22.5°	731.4	698.0	660.3	624.5	588.7	556.1	526.0	499.1	475.0	453.6	435.1
25°	733.5	697.8	659.2	618.1	578.9	544.3	513.0	483.8	457.0	435.6	416.0
27.5°	730.6	688.5	649.0	606.9	566.4	530.0	497.2	466.5	439.7	416.7	396.5
30°	726.3	681.3	638.9	595.1	554.1	519.1	484.5	455.1	427.2	403.3	383.0
32.5°	717.0	672.3	626.7	581.9	540.4	504.3	471.5	441.9	414.5	390.1	368.5
35°	698.6	653.4	603.9	557.9	517.1	479.6	448.8	420.3	394.2	368.1	345.3
37.5°	674.4	628.2	578.9	528.6	487.7	452.3	424.1	397.3	371.8	348.0	322.8
40°	651.6	609.4	558.6	508.6	466.7	432.5	406.4	382.1	356.5	332.8	307.6
42.5°	624.0	588.1	536.6	486.4	445.1	412.2	387.9	364.1	340.7	317.8	291.5
45°	577.8	550.5	502.4	454.2	412.5	379.8	357.6	336.6	316.1	294.3	269.5
47.5°	524.8	506.4	464.9	415.5	376.9	347.6	326.0	308.9	291.5	269.7	248.0
50°	488.0	476.3	436.1	391.1	354.2	327.3	305.2	289.1	274.6	253.6	234.2
52.5°	448.8	442.5	408.6	365.5	330.0	303.5	284.6	270.2	255.5	238.1	220.0
55°	389.0	392.4	363.6	326.3	292.8	270.6	253.4	241.4	228.8	214.1	200.1
57.5°	327.9	340.2	320.8	288.1	256.7	236.1	223.2	213.1	202.6	190.4	178.3
60°	291.3	301.6	290.7	261.8	234.4	215.3	203.2	195.4	184.9	173.8	164.7
62.5°	255.6	266.6	260.1	236.9	211.4	194.9	184.3	177.0	169.2	159.5	150.0
65°	210.8	217.9	214.8	198.8	180.7	166.6	156.8	151.5	144.3	137.2	128.8
67.5°	161.5	175.2	173.4	164.9	149.3	138.3	131.9	127.1	120.6	115.4	109.6
70°	132.7	145.4	145.2	138.3	129.8	119.6	115.1	111.1	105.3	100.2	95.5
72.5°	108.7	120.3	122.1	116.7	110.9	103.1	98.9	96.1	90.5	87.0	83.1
75°	76.1	84.5	86.8	86.8	84.1	80.1	76.3	74.5	70.5	67.4	65.1
77.5°	49.9	55.2	58.7	59.5	59.9	58.5	55.4	54.2	51.1	50.0	47.9
80°	35.3	38.8	42.8	44.2	45.2	44.9	43.5	42.6	39.7	38.5	37.7
82.5°	24.3	26.3	29.6	32.6	32.2	33.5	32.2	31.6	29.3	28.9	28.1
85°	12.7	12.9	13.4	15.4	16.5	17.0	17.2	16.8	16.0	16.0	14.5
87.5°	5.8	5.6	5.7	5.6	5.6	6.0	6.3	6.3	6.0	5.7	5.4
90°	7.9	7.2	6.3	5.5	4.4	3.4	2.4	1.3	2.4	3.4	4.4
92.5°	15.8	15.4	14.8	13.9	12.7	11.5	10.4	9.1	10.4	11.5	12.7
95°	31.1	30.4	29.8	29.0	28.2	27.3	26.5	25.6	26.5	27.3	28.2
97.5°	49.8	49.0	48.3	47.5	46.8	46.1	45.4	44.8	45.4	46.1	46.8
100°	63.6	62.8	61.9	61.4	60.9	60.5	60.1	59.8	60.1	60.5	60.9
102.5°	78.1	77.4	76.6	76.2	76.0	75.8	75.7	75.5	75.7	75.8	76.0
105°	100.9	100.5	100.1	99.9	99.8	99.7	99.6	99.5	99.6	99.7	99.8
107.5°	125.4	125.4	125.3	125.2	125.1	125.0	124.8	124.7	124.8	125.0	125.1
110°	142.4	142.5	142.6	142.5	142.3	142.1	141.9	141.8	141.9	142.1	142.3



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	159.3	159.5	159.7	159.8	159.7	159.7	159.6	159.6	159.6	159.7	159.7
115°	185.8	186.0	186.2	186.2	186.2	186.2	186.2	186.2	186.2	186.2	186.2
117.5°	211.3	211.5	211.6	211.6	211.6	211.5	211.4	211.3	211.4	211.5	211.6
120°	229.0	229.3	229.6	229.6	229.2	228.8	228.5	228.1	228.5	228.8	229.2
122.5°	245.8	246.0	246.1	246.1	245.9	245.8	245.6	245.5	245.6	245.8	245.9
125°	271.0	271.1	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2
127.5°	295.4	295.6	295.8	295.7	295.4	295.1	294.8	294.5	294.8	295.1	295.4
130°	312.2	312.2	312.2	312.1	311.8	311.5	311.2	310.9	311.2	311.5	311.8
132.5°	328.4	328.5	328.6	328.5	328.3	328.1	327.9	327.6	327.9	328.1	328.3
135°	352.3	352.3	352.3	352.0	351.5	350.9	350.3	349.8	350.3	350.9	351.5
137.5°	375.5	375.3	375.1	374.9	374.7	374.4	374.2	373.9	374.2	374.4	374.7
140°	390.8	390.8	390.8	390.7	390.5	390.3	390.1	389.9	390.1	390.3	390.5
142.5°	405.3	405.4	405.5	405.4	405.2	405.0	404.8	404.6	404.8	405.0	405.2
145°	426.9	426.8	426.7	426.5	426.1	425.7	425.4	425.0	425.4	425.7	426.1
147.5°	447.0	447.0	447.1	447.0	446.5	446.0	445.5	445.2	445.5	446.0	446.5
150°	459.1	459.1	459.1	458.9	458.5	458.2	457.8	457.4	457.8	458.2	458.5
152.5°	470.2	470.1	470.1	470.0	469.8	469.5	469.3	469.0	469.3	469.5	469.8
155°	486.6	486.7	486.8	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9
157.5°	501.1	501.1	501.1	501.2	501.4	501.6	501.7	501.9	501.7	501.6	501.4
160°	510.2	510.3	510.4	510.5	510.6	510.7	510.8	510.9	510.8	510.7	510.6
162.5°	517.6	517.7	517.8	518.0	518.3	518.5	518.8	519.1	518.8	518.5	518.3
165°	528.3	528.5	528.7	528.9	529.1	529.4	529.7	530.0	529.7	529.4	529.1
167.5°	536.8	536.7	536.7	536.9	537.3	537.7	538.1	538.5	538.1	537.7	537.3
170°	541.4	541.3	541.2	541.4	541.9	542.3	542.8	543.3	542.8	542.3	541.9
172.5°	545.0	544.9	544.9	545.1	545.5	545.9	546.3	546.7	546.3	545.9	545.5
175°	549.0	549.1	549.2	549.5	550.0	550.4	550.9	551.4	550.9	550.4	550.0
177.5°	551.2	551.2	551.2	551.4	551.8	552.1	552.5	552.9	552.5	552.1	551.8
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	543.7	541.9	539.6	536.9	533.7	530.8	529.5	530.7	531.2	529.7	529.5
5°	527.1	521.5	517.1	510.4	505.0	500.6	497.5	496.1	496.5	492.9	492.1
7.5°	508.5	501.9	494.6	486.6	479.3	472.7	469.3	467.4	463.5	461.9	459.2
10°	496.5	487.7	480.5	471.1	462.6	454.9	451.0	447.9	444.1	442.3	438.6
12.5°	484.3	473.9	466.0	456.3	447.6	438.3	434.6	428.9	422.9	419.1	414.2
15°	466.8	454.4	444.8	433.2	422.9	412.3	402.7	391.9	388.0	379.5	374.6
17.5°	446.6	433.9	422.1	406.5	390.7	377.3	367.1	356.8	350.7	345.3	342.8
20°	433.2	421.6	405.1	387.0	369.4	354.7	346.4	339.7	333.0	329.2	326.6
22.5°	420.6	405.7	386.5	367.0	349.4	337.9	330.9	324.0	318.6	315.0	311.4
25°	399.3	379.8	359.6	337.2	325.3	315.2	307.6	302.0	298.7	294.0	292.2
27.5°	377.5	353.9	331.6	316.6	304.1	294.8	288.2	284.1	279.8	276.8	274.5
30°	360.7	336.9	316.8	302.5	289.7	282.2	276.8	271.9	268.5	266.1	264.4
32.5°	344.1	320.3	303.4	288.0	278.0	270.6	264.9	261.2	258.5	255.4	254.3
35°	320.1	298.9	284.2	270.3	260.1	253.4	248.9	245.2	242.9	242.0	241.4
37.5°	297.0	279.7	263.8	252.5	243.4	238.1	232.8	230.9	229.4	227.8	228.6
40°	282.4	266.1	252.0	240.1	232.6	226.9	223.8	221.5	220.2	220.2	220.2
42.5°	269.8	253.8	240.1	229.3	222.0	217.1	213.6	211.7	211.2	211.0	212.2
45°	250.1	235.4	221.5	212.5	206.3	201.4	199.4	197.8	197.8	198.8	199.0
47.5°	230.5	216.8	205.7	195.7	189.9	186.9	185.1	184.4	184.5	185.3	186.3
50°	218.6	205.0	194.1	185.1	179.8	176.9	175.3	174.8	175.3	175.3	176.9
52.5°	205.6	193.4	182.7	175.1	169.1	166.4	165.5	164.9	165.1	165.9	166.5
55°	186.5	175.6	165.3	158.2	153.7	151.9	149.9	150.1	149.7	150.1	150.1
57.5°	167.3	157.5	148.0	142.3	138.4	135.8	133.7	134.2	133.6	133.5	133.1
60°	155.0	144.3	136.8	131.6	127.1	124.9	122.9	123.4	122.7	122.2	121.3
62.5°	141.7	132.7	125.5	120.6	117.0	114.4	112.4	112.0	110.4	108.9	106.9
65°	122.2	114.9	108.4	103.8	100.4	98.4	96.8	95.5	92.1	88.6	86.8
67.5°	103.4	98.0	92.0	88.0	85.3	82.8	79.7	77.5	74.4	72.4	71.3
70°	91.2	86.1	81.0	77.2	74.3	71.8	68.5	66.9	64.7	63.8	62.7
72.5°	79.6	74.8	70.1	66.6	63.6	61.6	59.0	57.5	56.5	56.1	55.0
75°	62.0	58.2	54.7	51.6	49.1	47.7	46.7	45.5	45.1	43.1	41.9
77.5°	45.2	42.7	40.5	38.3	36.6	35.6	33.5	32.2	31.5	30.5	30.3
80°	35.3	33.5	31.2	29.9	27.4	26.6	25.6	25.4	25.2	25.0	24.8
82.5°	26.5	24.7	22.5	21.7	21.0	20.5	20.0	19.7	19.5	19.6	19.6
85°	13.4	12.5	12.5	12.3	12.1	11.8	11.6	11.6	11.4	11.6	11.4
87.5°	5.6	5.6	5.7	5.5	5.8	5.9	5.9	6.0	6.3	6.1	6.1
90°	5.5	6.3	7.2	7.9	8.7	9.4	10.0	10.6	11.1	11.7	12.1
92.5°	13.9	14.8	15.4	15.8	16.4	16.9	17.2	17.6	17.9	18.3	18.5
95°	29.0	29.8	30.4	31.1	31.8	32.4	32.7	33.0	33.3	33.6	33.7
97.5°	47.5	48.3	49.0	49.8	50.5	51.4	51.7	52.0	52.4	52.7	52.9
100°	61.4	61.9	62.8	63.6	64.5	65.3	65.5	65.7	65.9	66.1	66.2
102.5°	76.2	76.6	77.4	78.1	78.9	79.7	79.9	80.2	80.5	80.8	81.0
105°	99.9	100.1	100.5	100.9	101.2	101.6	101.9	102.3	102.5	102.8	103.1
107.5°	125.2	125.3	125.4	125.4	125.5	125.5	125.7	126.0	126.3	126.6	126.7
110°	142.5	142.6	142.5	142.4	142.3	142.2	142.0	141.9	141.7	141.5	141.5



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	159.8	159.7	159.5	159.3	159.1	159.0	158.9	158.9	158.8	158.8	158.8
115°	186.2	186.2	186.0	185.8	185.6	185.4	185.3	185.2	185.1	185.0	184.9
117.5°	211.6	211.6	211.5	211.3	211.2	211.0	210.8	210.5	210.1	209.8	209.5
120°	229.6	229.6	229.3	229.0	228.8	228.5	228.0	227.5	227.1	226.6	226.5
122.5°	246.1	246.1	246.0	245.8	245.7	245.6	245.2	245.0	244.6	244.3	243.9
125°	271.2	271.2	271.1	271.0	270.9	270.8	270.6	270.4	270.2	270.0	269.8
127.5°	295.7	295.8	295.6	295.4	295.3	295.1	294.9	294.7	294.5	294.4	294.2
130°	312.1	312.2	312.2	312.2	312.2	312.2	312.0	311.8	311.6	311.4	311.1
132.5°	328.5	328.6	328.5	328.4	328.4	328.3	328.1	327.9	327.7	327.5	327.3
135°	352.0	352.3	352.3	352.3	352.3	352.3	352.1	351.9	351.8	351.6	351.4
137.5°	374.9	375.1	375.3	375.5	375.6	375.8	375.5	375.2	375.0	374.8	374.7
140°	390.7	390.8	390.8	390.8	390.8	390.8	390.7	390.6	390.5	390.4	390.3
142.5°	405.4	405.5	405.4	405.3	405.2	405.1	405.1	405.1	405.1	405.1	405.0
145°	426.5	426.7	426.8	426.9	427.0	427.1	427.0	426.9	426.8	426.7	426.5
147.5°	447.0	447.1	447.0	447.0	447.0	446.9	446.8	446.7	446.6	446.6	446.5
150°	458.9	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1
152.5°	470.0	470.1	470.1	470.2	470.3	470.4	470.6	470.9	471.1	471.4	471.3
155°	486.9	486.8	486.7	486.6	486.5	486.4	486.8	487.2	487.6	488.0	488.0
157.5°	501.2	501.1	501.1	501.1	501.1	501.1	501.3	501.6	501.9	502.2	502.2
160°	510.5	510.4	510.3	510.2	510.1	510.0	510.3	510.6	510.9	511.1	511.0
162.5°	518.0	517.8	517.7	517.6	517.6	517.5	518.0	518.5	519.1	519.5	519.5
165°	528.9	528.7	528.5	528.3	528.1	527.9	528.5	529.0	529.6	530.2	530.3
167.5°	536.9	536.7	536.7	536.8	536.8	536.8	537.3	537.9	538.5	539.0	539.0
170°	541.4	541.2	541.3	541.4	541.5	541.6	542.2	542.7	543.3	543.8	543.8
172.5°	545.1	544.9	544.9	545.0	545.0	545.0	545.6	546.3	547.0	547.5	547.5
175°	549.5	549.2	549.1	549.0	548.9	548.8	549.5	550.2	550.8	551.5	551.5
177.5°	551.4	551.2	551.2	551.2	551.2	551.2	551.8	552.3	552.8	553.4	553.3
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	528.5	528.9	527.6	527.3	527.6	528.9	528.5	529.5	529.7	531.2	530.7
5°	490.3	489.8	488.7	489.0	488.7	489.8	490.3	492.1	492.9	496.5	496.1
7.5°	457.6	455.9	456.4	454.6	456.4	455.9	457.6	459.2	461.9	463.5	467.4
10°	437.6	435.2	433.2	431.4	433.2	435.2	437.6	438.6	442.3	444.1	447.9
12.5°	410.4	408.2	405.6	406.0	405.6	408.2	410.4	414.2	419.1	422.9	428.9
15°	371.6	368.3	363.0	363.6	363.0	368.3	371.6	374.6	379.5	388.0	391.9
17.5°	338.8	338.8	336.4	337.1	336.4	338.8	338.8	342.8	345.3	350.7	356.8
20°	321.9	320.4	320.6	319.9	320.6	320.4	321.9	326.6	329.2	333.0	339.7
22.5°	310.1	308.2	306.6	305.3	306.6	308.2	310.1	311.4	315.0	318.6	324.0
25°	290.2	288.9	286.9	286.4	286.9	288.9	290.2	292.2	294.0	298.7	302.0
27.5°	272.7	272.5	271.6	270.6	271.6	272.5	272.7	274.5	276.8	279.8	284.1
30°	262.6	262.1	261.6	261.0	261.6	262.1	262.6	264.4	266.1	268.5	271.9
32.5°	253.4	253.2	252.7	252.8	252.7	253.2	253.4	254.3	255.4	258.5	261.2
35°	240.4	240.3	239.8	239.6	239.8	240.3	240.4	241.4	242.0	242.9	245.2
37.5°	228.4	228.9	228.7	228.6	228.7	228.9	228.4	228.6	227.8	229.4	230.9
40°	220.0	220.2	220.6	220.4	220.6	220.2	220.0	220.2	220.2	220.2	221.5
42.5°	213.0	213.0	213.7	212.9	213.7	213.0	213.0	212.2	211.0	211.2	211.7
45°	200.6	201.9	201.6	201.6	201.6	201.9	200.6	199.0	198.8	197.8	197.8
47.5°	186.9	188.1	188.4	188.3	188.4	188.1	186.9	186.3	185.3	184.5	184.4
50°	178.0	177.6	178.2	178.0	178.2	177.6	178.0	176.9	175.3	175.3	174.8
52.5°	167.1	167.2	167.2	166.9	167.2	167.2	167.1	166.5	165.9	165.1	164.9
55°	150.3	150.6	150.1	150.3	150.1	150.6	150.3	150.1	150.1	149.7	150.1
57.5°	132.1	131.1	131.5	131.0	131.5	131.1	132.1	133.1	133.5	133.6	134.2
60°	119.1	117.3	116.9	116.0	116.9	117.3	119.1	121.3	122.2	122.7	123.4
62.5°	104.5	103.2	101.7	102.5	101.7	103.2	104.5	106.9	108.9	110.4	112.0
65°	85.0	84.1	83.4	84.4	83.4	84.1	85.0	86.8	88.6	92.1	95.5
67.5°	70.3	69.8	69.8	69.5	69.8	69.8	70.3	71.3	72.4	74.4	77.5
70°	62.7	62.0	62.0	61.5	62.0	62.0	62.7	62.7	63.8	64.7	66.9
72.5°	54.9	54.2	54.4	54.1	54.4	54.2	54.9	55.0	56.1	56.5	57.5
75°	40.6	39.5	39.5	39.7	39.5	39.5	40.6	41.9	43.1	45.1	45.5
77.5°	30.3	30.1	30.3	30.0	30.3	30.1	30.3	30.3	30.5	31.5	32.2
80°	24.8	24.5	24.3	25.0	24.3	24.5	24.8	24.8	25.0	25.2	25.4
82.5°	19.2	19.2	19.1	20.0	19.1	19.2	19.2	19.6	19.6	19.5	19.7
85°	11.6	11.1	11.6	11.1	11.6	11.1	11.6	11.4	11.6	11.4	11.6
87.5°	6.6	6.4	6.3	6.5	6.3	6.4	6.6	6.1	6.1	6.3	6.0
90°	12.3	12.4	12.6	12.8	12.6	12.4	12.3	12.1	11.7	11.1	10.6
92.5°	18.7	18.8	18.9	18.9	18.9	18.8	18.7	18.5	18.3	17.9	17.6
95°	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.6	33.3	33.0
97.5°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.7	52.4	52.0
100°	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.1	65.9	65.7
102.5°	81.0	81.1	81.2	81.2	81.2	81.1	81.0	81.0	80.8	80.5	80.2
105°	103.4	103.7	104.0	104.2	104.0	103.7	103.4	103.1	102.8	102.5	102.3
107.5°	126.7	126.7	126.6	126.6	126.6	126.7	126.7	126.7	126.6	126.3	126.0
110°	141.8	142.0	142.3	142.6	142.3	142.0	141.8	141.5	141.5	141.7	141.9



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	158.9	158.9	159.0	159.0	159.0	158.9	158.9	158.8	158.8	158.8	158.9
115°	184.8	184.7	184.6	184.5	184.6	184.7	184.8	184.9	185.0	185.1	185.2
117.5°	209.3	209.2	209.0	208.8	209.0	209.2	209.3	209.5	209.8	210.1	210.5
120°	226.7	226.9	227.1	227.2	227.1	226.9	226.7	226.5	226.6	227.1	227.5
122.5°	243.6	243.3	242.9	242.6	242.9	243.3	243.6	243.9	244.3	244.6	245.0
125°	269.7	269.5	269.3	269.1	269.3	269.5	269.7	269.8	270.0	270.2	270.4
127.5°	294.1	293.9	293.8	293.6	293.8	293.9	294.1	294.2	294.4	294.5	294.7
130°	310.8	310.4	310.0	309.6	310.0	310.4	310.8	311.1	311.4	311.6	311.8
132.5°	327.2	327.1	326.9	326.8	326.9	327.1	327.2	327.3	327.5	327.7	327.9
135°	351.1	350.8	350.5	350.2	350.5	350.8	351.1	351.4	351.6	351.8	351.9
137.5°	374.8	374.8	374.8	374.9	374.8	374.8	374.8	374.7	374.8	375.0	375.2
140°	390.2	390.1	390.0	389.9	390.0	390.1	390.2	390.3	390.4	390.5	390.6
142.5°	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.1	405.1	405.1
145°	426.2	425.9	425.7	425.4	425.7	425.9	426.2	426.5	426.7	426.8	426.9
147.5°	446.4	446.3	446.2	446.1	446.2	446.3	446.4	446.5	446.6	446.6	446.7
150°	459.0	458.9	458.8	458.7	458.8	458.9	459.0	459.1	459.1	459.1	459.1
152.5°	471.1	470.8	470.6	470.3	470.6	470.8	471.1	471.3	471.4	471.1	470.9
155°	487.6	487.2	486.8	486.4	486.8	487.2	487.6	488.0	488.0	487.6	487.2
157.5°	501.9	501.5	501.2	500.9	501.2	501.5	501.9	502.2	502.2	501.9	501.6
160°	510.6	510.1	509.5	509.1	509.5	510.1	510.6	511.0	511.1	510.9	510.6
162.5°	519.1	518.6	518.1	517.6	518.1	518.6	519.1	519.5	519.5	519.1	518.5
165°	529.9	529.5	529.1	528.8	529.1	529.5	529.9	530.3	530.2	529.6	529.0
167.5°	538.5	537.9	537.2	536.7	537.2	537.9	538.5	539.0	539.0	538.5	537.9
170°	543.1	542.4	541.8	541.1	541.8	542.4	543.1	543.8	543.8	543.3	542.7
172.5°	546.9	546.2	545.5	544.9	545.5	546.2	546.9	547.5	547.5	547.0	546.3
175°	550.8	550.2	549.5	548.8	549.5	550.2	550.8	551.5	551.5	550.8	550.2
177.5°	552.7	552.1	551.5	550.9	551.5	552.1	552.7	553.3	553.4	552.8	552.3
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	529.5	530.8	533.7	536.9	539.6	541.9	543.7	546.2	548.5	551.7	554.7
5°	497.5	500.6	505.0	510.4	517.1	521.5	527.1	532.1	539.1	546.3	553.2
7.5°	469.3	472.7	479.3	486.6	494.6	501.9	508.5	517.2	526.6	537.1	548.7
10°	451.0	454.9	462.6	471.1	480.5	487.7	496.5	506.8	517.6	530.3	544.5
12.5°	434.6	438.3	447.6	456.3	466.0	473.9	484.3	494.6	509.0	522.7	538.9
15°	402.7	412.3	422.9	433.2	444.8	454.4	466.8	477.6	491.2	510.6	529.1
17.5°	367.1	377.3	390.7	406.5	422.1	433.9	446.6	459.9	476.1	495.9	517.3
20°	346.4	354.7	369.4	387.0	405.1	421.6	433.2	447.9	464.7	486.1	508.1
22.5°	330.9	337.9	349.4	367.0	386.5	405.7	420.6	435.1	453.6	475.0	499.1
25°	307.6	315.2	325.3	337.2	359.6	379.8	399.3	416.0	435.6	457.0	483.8
27.5°	288.2	294.8	304.1	316.6	331.6	353.9	377.5	396.5	416.7	439.7	466.5
30°	276.8	282.2	289.7	302.5	316.8	336.9	360.7	383.0	403.3	427.2	455.1
32.5°	264.9	270.6	278.0	288.0	303.4	320.3	344.1	368.5	390.1	414.5	441.9
35°	248.9	253.4	260.1	270.3	284.2	298.9	320.1	345.3	368.1	394.2	420.3
37.5°	232.8	238.1	243.4	252.5	263.8	279.7	297.0	322.8	348.0	371.8	397.3
40°	223.8	226.9	232.6	240.1	252.0	266.1	282.4	307.6	332.8	356.5	382.1
42.5°	213.6	217.1	222.0	229.3	240.1	253.8	269.8	291.5	317.8	340.7	364.1
45°	199.4	201.4	206.3	212.5	221.5	235.4	250.1	269.5	294.3	316.1	336.6
47.5°	185.1	186.9	189.9	195.7	205.7	216.8	230.5	248.0	269.7	291.5	308.9
50°	175.3	176.9	179.8	185.1	194.1	205.0	218.6	234.2	253.6	274.6	289.1
52.5°	165.5	166.4	169.1	175.1	182.7	193.4	205.6	220.0	238.1	255.5	270.2
55°	149.9	151.9	153.7	158.2	165.3	175.6	186.5	200.1	214.1	228.8	241.4
57.5°	133.7	135.8	138.4	142.3	148.0	157.5	167.3	178.3	190.4	202.6	213.1
60°	122.9	124.9	127.1	131.6	136.8	144.3	155.0	164.7	173.8	184.9	195.4
62.5°	112.4	114.4	117.0	120.6	125.5	132.7	141.7	150.0	159.5	169.2	177.0
65°	96.8	98.4	100.4	103.8	108.4	114.9	122.2	128.8	137.2	144.3	151.5
67.5°	79.7	82.8	85.3	88.0	92.0	98.0	103.4	109.6	115.4	120.6	127.1
70°	68.5	71.8	74.3	77.2	81.0	86.1	91.2	95.5	100.2	105.3	111.1
72.5°	59.0	61.6	63.6	66.6	70.1	74.8	79.6	83.1	87.0	90.5	96.1
75°	46.7	47.7	49.1	51.6	54.7	58.2	62.0	65.1	67.4	70.5	74.5
77.5°	33.5	35.6	36.6	38.3	40.5	42.7	45.2	47.9	50.0	51.1	54.2
80°	25.6	26.6	27.4	29.9	31.2	33.5	35.3	37.7	38.5	39.7	42.6
82.5°	20.0	20.5	21.0	21.7	22.5	24.7	26.5	28.1	28.9	29.3	31.6
85°	11.6	11.8	12.1	12.3	12.5	12.5	13.4	14.5	16.0	16.0	16.8
87.5°	5.9	5.9	5.8	5.5	5.7	5.6	5.6	5.4	5.7	6.0	6.3
90°	10.0	9.4	8.7	7.9	7.2	6.3	5.5	4.4	3.4	2.4	1.3
92.5°	17.2	16.9	16.4	15.8	15.4	14.8	13.9	12.7	11.5	10.4	9.1
95°	32.7	32.4	31.8	31.1	30.4	29.8	29.0	28.2	27.3	26.5	25.6
97.5°	51.7	51.4	50.5	49.8	49.0	48.3	47.5	46.8	46.1	45.4	44.8
100°	65.5	65.3	64.5	63.6	62.8	61.9	61.4	60.9	60.5	60.1	59.8
102.5°	79.9	79.7	78.9	78.1	77.4	76.6	76.2	76.0	75.8	75.7	75.5
105°	101.9	101.6	101.2	100.9	100.5	100.1	99.9	99.8	99.7	99.6	99.5
107.5°	125.7	125.5	125.5	125.4	125.4	125.3	125.2	125.1	125.0	124.8	124.7
110°	142.0	142.2	142.3	142.4	142.5	142.6	142.5	142.3	142.1	141.9	141.8



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	158.9	159.0	159.1	159.3	159.5	159.7	159.8	159.7	159.7	159.6	159.6
115°	185.3	185.4	185.6	185.8	186.0	186.2	186.2	186.2	186.2	186.2	186.2
117.5°	210.8	211.0	211.2	211.3	211.5	211.6	211.6	211.6	211.5	211.4	211.3
120°	228.0	228.5	228.8	229.0	229.3	229.6	229.6	229.2	228.8	228.5	228.1
122.5°	245.2	245.6	245.7	245.8	246.0	246.1	246.1	245.9	245.8	245.6	245.5
125°	270.6	270.8	270.9	271.0	271.1	271.2	271.2	271.2	271.2	271.2	271.2
127.5°	294.9	295.1	295.3	295.4	295.6	295.8	295.7	295.4	295.1	294.8	294.5
130°	312.0	312.2	312.2	312.2	312.2	312.2	312.1	311.8	311.5	311.2	310.9
132.5°	328.1	328.3	328.4	328.4	328.5	328.6	328.5	328.3	328.1	327.9	327.6
135°	352.1	352.3	352.3	352.3	352.3	352.3	352.0	351.5	350.9	350.3	349.8
137.5°	375.5	375.8	375.6	375.5	375.3	375.1	374.9	374.7	374.4	374.2	373.9
140°	390.7	390.8	390.8	390.8	390.8	390.8	390.7	390.5	390.3	390.1	389.9
142.5°	405.1	405.1	405.2	405.3	405.4	405.5	405.4	405.2	405.0	404.8	404.6
145°	427.0	427.1	427.0	426.9	426.8	426.7	426.5	426.1	425.7	425.4	425.0
147.5°	446.8	446.9	447.0	447.0	447.0	447.1	447.0	446.5	446.0	445.5	445.2
150°	459.1	459.1	459.1	459.1	459.1	459.1	458.9	458.5	458.2	457.8	457.4
152.5°	470.6	470.4	470.3	470.2	470.1	470.1	470.0	469.8	469.5	469.3	469.0
155°	486.8	486.4	486.5	486.6	486.7	486.8	486.9	486.9	486.9	486.9	486.9
157.5°	501.3	501.1	501.1	501.1	501.1	501.1	501.2	501.4	501.6	501.7	501.9
160°	510.3	510.0	510.1	510.2	510.3	510.4	510.5	510.6	510.7	510.8	510.9
162.5°	518.0	517.5	517.6	517.6	517.7	517.8	518.0	518.3	518.5	518.8	519.1
165°	528.5	527.9	528.1	528.3	528.5	528.7	528.9	529.1	529.4	529.7	530.0
167.5°	537.3	536.8	536.8	536.8	536.7	536.7	536.9	537.3	537.7	538.1	538.5
170°	542.2	541.6	541.5	541.4	541.3	541.2	541.4	541.9	542.3	542.8	543.3
172.5°	545.6	545.0	545.0	545.0	544.9	544.9	545.1	545.5	545.9	546.3	546.7
175°	549.5	548.8	548.9	549.0	549.1	549.2	549.5	550.0	550.4	550.9	551.4
177.5°	551.8	551.2	551.2	551.2	551.2	551.2	551.4	551.8	552.1	552.5	552.9
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	557.0	558.6	560.4	563.8	566.7	568.0	570.4	572.2	571.7	574.2	578.4
5°	559.2	565.2	572.2	579.3	587.3	594.0	599.4	604.7	609.0	614.1	621.7
7.5°	558.8	569.6	581.3	594.0	607.2	618.6	629.1	639.8	649.3	659.7	673.4
10°	557.4	571.7	586.3	602.9	619.7	635.6	649.8	663.2	675.9	689.5	706.7
12.5°	555.8	572.2	589.7	609.9	630.7	649.8	666.6	685.9	701.8	719.3	739.1
15°	548.7	570.8	594.7	620.8	645.8	671.5	694.4	718.0	740.2	761.1	786.1
17.5°	540.6	566.1	594.3	625.1	655.1	686.3	713.6	743.4	765.9	794.1	817.3
20°	534.0	561.5	591.5	626.1	660.3	694.8	725.0	755.4	780.7	809.1	838.5
22.5°	526.0	556.1	588.7	624.5	660.3	698.0	731.4	761.6	793.1	824.9	855.3
25°	513.0	544.3	578.9	618.1	659.2	697.8	733.5	770.9	804.8	839.4	866.7
27.5°	497.2	530.0	566.4	606.9	649.0	688.5	730.6	770.5	804.6	837.9	861.7
30°	484.5	519.1	554.1	595.1	638.9	681.3	726.3	766.3	802.2	832.1	845.5
32.5°	471.5	504.3	540.4	581.9	626.7	672.3	717.0	757.9	791.1	809.0	809.4
35°	448.8	479.6	517.1	557.9	603.9	653.4	698.6	738.8	759.1	760.6	738.8
37.5°	424.1	452.3	487.7	528.6	578.9	628.2	674.4	701.2	707.9	685.2	644.9
40°	406.4	432.5	466.7	508.6	558.6	609.4	651.6	671.2	664.1	627.3	582.2
42.5°	387.9	412.2	445.1	486.4	536.6	588.1	624.0	634.4	615.6	573.1	520.3
45°	357.6	379.8	412.5	454.2	502.4	550.5	577.8	572.4	540.9	490.5	431.4
47.5°	326.0	347.6	376.9	415.5	464.9	506.4	524.8	508.7	463.9	408.5	360.4
50°	305.2	327.3	354.2	391.1	436.1	476.3	488.0	463.5	413.8	360.5	316.3
52.5°	284.6	303.5	330.0	365.5	408.6	442.5	448.8	420.6	369.2	321.4	282.2
55°	253.4	270.6	292.8	326.3	363.6	392.4	389.0	352.7	306.0	265.2	234.4
57.5°	223.2	236.1	256.7	288.1	320.8	340.2	327.9	296.9	253.4	220.0	194.1
60°	203.2	215.3	234.4	261.8	290.7	301.6	291.3	257.7	223.3	192.7	170.9
62.5°	184.3	194.9	211.4	236.9	260.1	266.6	255.6	226.2	195.3	169.2	151.1
65°	156.8	166.6	180.7	198.8	214.8	217.9	210.8	180.7	157.3	135.4	122.9
67.5°	131.9	138.3	149.3	164.9	173.4	175.2	161.5	142.5	121.9	108.5	99.1
70°	115.1	119.6	129.8	138.3	145.2	145.4	132.7	117.5	101.7	90.8	83.9
72.5°	98.9	103.1	110.9	116.7	122.1	120.3	108.7	96.7	83.9	75.6	70.5
75°	76.3	80.1	84.1	86.8	86.8	84.5	76.1	67.1	59.8	54.9	53.3
77.5°	55.4	58.5	59.9	59.5	58.7	55.2	49.9	44.0	41.4	39.1	37.9
80°	43.5	44.9	45.2	44.2	42.8	38.8	35.3	32.8	30.3	29.4	29.0
82.5°	32.2	33.5	32.2	32.6	29.6	26.3	24.3	23.5	22.5	22.1	21.7
85°	17.2	17.0	16.5	15.4	13.4	12.9	12.7	12.5	12.1	12.3	11.8
87.5°	6.3	6.0	5.6	5.6	5.7	5.6	5.8	6.0	6.1	6.1	6.6
90°	2.4	3.4	4.4	5.5	6.3	7.2	7.9	8.7	9.4	10.0	10.6
92.5°	10.4	11.5	12.7	13.9	14.8	15.4	15.8	16.4	16.9	17.2	17.6
95°	26.5	27.3	28.2	29.0	29.8	30.4	31.1	31.8	32.4	32.7	33.0
97.5°	45.4	46.1	46.8	47.5	48.3	49.0	49.8	50.5	51.4	51.7	52.0
100°	60.1	60.5	60.9	61.4	61.9	62.8	63.6	64.5	65.3	65.5	65.7
102.5°	75.7	75.8	76.0	76.2	76.6	77.4	78.1	78.9	79.7	79.9	80.2
105°	99.6	99.7	99.8	99.9	100.1	100.5	100.9	101.2	101.6	101.9	102.3
107.5°	124.8	125.0	125.1	125.2	125.3	125.4	125.4	125.5	125.5	125.7	126.0
110°	141.9	142.1	142.3	142.5	142.6	142.5	142.4	142.3	142.2	142.0	141.9



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	159.6	159.7	159.7	159.8	159.7	159.5	159.3	159.1	159.0	158.9	158.9
115°	186.2	186.2	186.2	186.2	186.2	186.0	185.8	185.6	185.4	185.3	185.2
117.5°	211.4	211.5	211.6	211.6	211.6	211.5	211.3	211.2	211.0	210.8	210.5
120°	228.5	228.8	229.2	229.6	229.6	229.3	229.0	228.8	228.5	228.0	227.5
122.5°	245.6	245.8	245.9	246.1	246.1	246.0	245.8	245.7	245.6	245.2	245.0
125°	271.2	271.2	271.2	271.2	271.2	271.1	271.0	270.9	270.8	270.6	270.4
127.5°	294.8	295.1	295.4	295.7	295.8	295.6	295.4	295.3	295.1	294.9	294.7
130°	311.2	311.5	311.8	312.1	312.2	312.2	312.2	312.2	312.2	312.0	311.8
132.5°	327.9	328.1	328.3	328.5	328.6	328.5	328.4	328.4	328.3	328.1	327.9
135°	350.3	350.9	351.5	352.0	352.3	352.3	352.3	352.3	352.3	352.1	351.9
137.5°	374.2	374.4	374.7	374.9	375.1	375.3	375.5	375.6	375.8	375.5	375.2
140°	390.1	390.3	390.5	390.7	390.8	390.8	390.8	390.8	390.8	390.7	390.6
142.5°	404.8	405.0	405.2	405.4	405.5	405.4	405.3	405.2	405.1	405.1	405.1
145°	425.4	425.7	426.1	426.5	426.7	426.8	426.9	427.0	427.1	427.0	426.9
147.5°	445.5	446.0	446.5	447.0	447.1	447.0	447.0	447.0	446.9	446.8	446.7
150°	457.8	458.2	458.5	458.9	459.1	459.1	459.1	459.1	459.1	459.1	459.1
152.5°	469.3	469.5	469.8	470.0	470.1	470.1	470.2	470.3	470.4	470.6	470.9
155°	486.9	486.9	486.9	486.9	486.8	486.7	486.6	486.5	486.4	486.8	487.2
157.5°	501.7	501.6	501.4	501.2	501.1	501.1	501.1	501.1	501.1	501.3	501.6
160°	510.8	510.7	510.6	510.5	510.4	510.3	510.2	510.1	510.0	510.3	510.6
162.5°	518.8	518.5	518.3	518.0	517.8	517.7	517.6	517.6	517.5	518.0	518.5
165°	529.7	529.4	529.1	528.9	528.7	528.5	528.3	528.1	527.9	528.5	529.0
167.5°	538.1	537.7	537.3	536.9	536.7	536.7	536.8	536.8	536.8	537.3	537.9
170°	542.8	542.3	541.9	541.4	541.2	541.3	541.4	541.5	541.6	542.2	542.7
172.5°	546.3	545.9	545.5	545.1	544.9	544.9	545.0	545.0	545.0	545.6	546.3
175°	550.9	550.4	550.0	549.5	549.2	549.1	549.0	548.9	548.8	549.5	550.2
177.5°	552.5	552.1	551.8	551.4	551.2	551.2	551.2	551.2	551.2	551.8	552.3
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	580.8	581.5	582.0	583.8	584.0	585.6	584.0
5°	628.9	632.0	636.9	641.8	642.2	645.4	639.8
7.5°	682.7	689.9	694.5	702.4	705.5	707.5	704.3
10°	719.8	726.5	738.4	744.1	750.0	750.8	748.2
12.5°	755.7	766.3	775.6	786.6	786.4	794.2	791.4
15°	803.5	814.5	827.4	839.6	844.0	844.0	847.6
17.5°	837.5	857.6	871.0	880.6	891.2	893.0	891.7
20°	860.6	882.2	896.5	909.0	916.2	918.1	918.1
22.5°	877.7	896.2	910.1	921.3	927.2	929.5	928.9
25°	889.6	905.4	913.9	917.3	918.8	918.4	914.2
27.5°	873.4	872.6	867.3	857.1	849.3	844.6	839.2
30°	842.4	830.7	817.3	802.6	783.6	769.1	764.7
32.5°	796.1	770.1	747.3	722.8	702.5	688.0	681.8
35°	706.7	665.4	631.7	602.3	580.9	567.5	563.0
37.5°	600.6	560.6	519.0	490.4	472.6	459.1	454.1
40°	533.1	489.7	453.3	426.5	408.2	395.0	394.8
42.5°	471.6	430.0	395.8	376.5	356.8	348.1	348.1
45°	386.2	352.9	323.9	308.7	296.9	289.7	287.8
47.5°	319.7	292.2	272.9	260.8	251.2	246.7	243.6
50°	282.4	258.4	242.9	232.4	227.1	221.3	220.8
52.5°	251.4	231.9	219.9	211.4	204.6	201.1	201.2
55°	211.2	195.9	187.4	180.9	175.6	172.9	171.7
57.5°	178.0	166.5	160.2	154.3	152.0	150.0	149.4
60°	157.3	149.5	143.6	138.9	135.6	135.0	134.7
62.5°	140.2	132.0	128.0	124.3	121.9	120.8	120.5
65°	115.6	109.5	105.9	103.0	102.2	100.6	100.4
67.5°	93.1	89.5	87.2	85.2	84.0	83.9	83.9
70°	79.5	77.4	75.4	74.3	73.6	73.1	73.1
72.5°	67.7	66.2	64.5	63.9	63.8	63.3	63.2
75°	51.6	50.0	50.2	49.1	48.2	47.0	46.4
77.5°	36.6	35.4	35.2	35.1	34.3	34.2	34.5
80°	28.4	27.2	27.0	27.2	27.0	26.3	26.3
82.5°	21.6	20.6	20.4	20.3	20.1	20.3	19.9
85°	11.6	11.1	11.1	11.1	11.6	11.4	11.1
87.5°	6.3	6.2	6.5	6.4	6.4	6.3	6.5
90°	11.1	11.7	12.1	12.3	12.4	12.6	12.8
92.5°	17.9	18.3	18.5	18.7	18.8	18.9	18.9
95°	33.3	33.6	33.7	33.7	33.7	33.7	33.7
97.5°	52.4	52.7	52.9	52.9	52.9	52.9	52.9
100°	65.9	66.1	66.2	66.2	66.2	66.2	66.2
102.5°	80.5	80.8	81.0	81.0	81.1	81.2	81.2
105°	102.5	102.8	103.1	103.4	103.7	104.0	104.2
107.5°	126.3	126.6	126.7	126.7	126.7	126.6	126.6
110°	141.7	141.5	141.5	141.8	142.0	142.3	142.6



TEST NUMBER: P333016-830

CATALOG NUMBER: S124RDIW-S350D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	158.8	158.8	158.8	158.9	158.9	159.0	159.0
115°	185.1	185.0	184.9	184.8	184.7	184.6	184.5
117.5°	210.1	209.8	209.5	209.3	209.2	209.0	208.8
120°	227.1	226.6	226.5	226.7	226.9	227.1	227.2
122.5°	244.6	244.3	243.9	243.6	243.3	242.9	242.6
125°	270.2	270.0	269.8	269.7	269.5	269.3	269.1
127.5°	294.5	294.4	294.2	294.1	293.9	293.8	293.6
130°	311.6	311.4	311.1	310.8	310.4	310.0	309.6
132.5°	327.7	327.5	327.3	327.2	327.1	326.9	326.8
135°	351.8	351.6	351.4	351.1	350.8	350.5	350.2
137.5°	375.0	374.8	374.7	374.8	374.8	374.8	374.9
140°	390.5	390.4	390.3	390.2	390.1	390.0	389.9
142.5°	405.1	405.1	405.0	405.0	405.0	405.0	405.0
145°	426.8	426.7	426.5	426.2	425.9	425.7	425.4
147.5°	446.6	446.6	446.5	446.4	446.3	446.2	446.1
150°	459.1	459.1	459.1	459.0	458.9	458.8	458.7
152.5°	471.1	471.4	471.3	471.1	470.8	470.6	470.3
155°	487.6	488.0	488.0	487.6	487.2	486.8	486.4
157.5°	501.9	502.2	502.2	501.9	501.5	501.2	500.9
160°	510.9	511.1	511.0	510.6	510.1	509.5	509.1
162.5°	519.1	519.5	519.5	519.1	518.6	518.1	517.6
165°	529.6	530.2	530.3	529.9	529.5	529.1	528.8
167.5°	538.5	539.0	539.0	538.5	537.9	537.2	536.7
170°	543.3	543.8	543.8	543.1	542.4	541.8	541.1
172.5°	547.0	547.5	547.5	546.9	546.2	545.5	544.9
175°	550.8	551.5	551.5	550.8	550.2	549.5	548.8
177.5°	552.8	553.4	553.3	552.7	552.1	551.5	550.9
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2

(END OF REPORT)