

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: P333015-830

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333015-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
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-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 470 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3167.8 lumens  
Efficiency: N/A  
Efficacy: 137.7 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

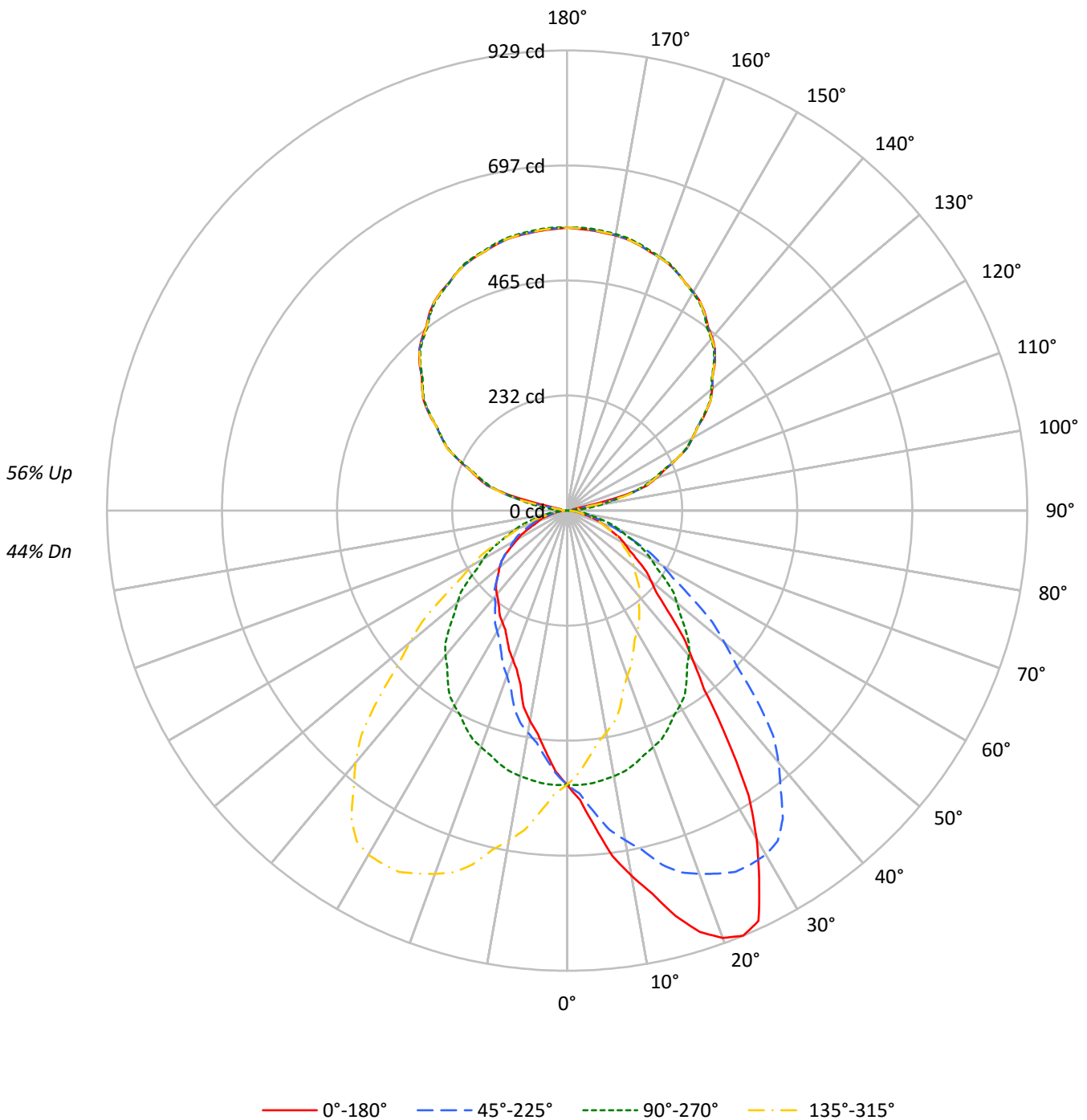
Input Watts (W): 23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38
2	89	81	76	71	81	75	70	66	63	59	56	51	49	46	41	39	37	33
3	81	72	65	59	74	66	60	55	55	51	47	45	42	40	36	34	32	28
4	74	64	56	50	68	59	52	47	49	45	41	41	37	34	33	30	28	24
5	68	57	49	43	62	53	46	41	44	39	35	37	33	30	30	27	25	21
6	63	51	43	38	58	47	40	35	40	35	31	33	29	26	27	24	22	19
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	25	22	20	17
8	54	42	34	29	49	39	32	28	33	28	24	28	24	21	23	20	18	15
9	50	38	31	26	46	36	29	25	30	25	22	26	22	19	21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	19	17	14	12

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	1.7
10°-20°	161.8	5.1
20°-30°	253.1	8.0
30°-40°	281.4	8.9
40°-50°	249.6	7.9
50°-60°	194.5	6.1
60°-70°	127.4	4.0
70°-80°	62.6	2.0
80°-90°	17.1	0.5
90°-100°	19.5	0.6
100°-110°	124.6	3.9
110°-120°	238.3	7.5
120°-130°	302.4	9.5
130°-140°	323.6	10.2
140°-150°	302.6	9.6
150°-160°	244.0	7.7
160°-170°	157.4	5.0
170°-180°	54.2	1.7
0°-30°	468.6	14.8
0°-40°	749.9	23.7
0°-60°	1194.1	37.7
0°-90°	1401.2	44.2
90°-120°	382.4	12.1
90°-150°	1311.0	41.4
90°-180°	1767.0	55.8
0°-180°	3167.8	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	6
95°	12	24	12	24	12	10
105°	122	129	122	129	122	106
115°	242	240	242	240	242	239
125°	340	337	340	337	340	303
135°	422	419	422	419	422	325
145°	485	483	485	483	485	303
155°	529	529	529	529	529	244
165°	556	558	556	558	556	157
175°	568	571	568	571	568	54
180°	571	571	571	571	571	



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**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°	11.8	11.8	11.7	11.7	11.6	11.3	10.7	10.2	9.6	9.0	8.3
95°	12.3	12.3	12.2	12.1	12.0	11.7	11.1	10.6	10.0	9.4	9.3
97.5°	12.0	11.9	11.8	11.7	11.6	11.5	11.4	11.4	11.3	11.3	21.9
100°	12.0	11.9	11.8	11.7	11.6	12.3	13.9	15.6	17.2	18.8	31.9
102.5°	12.3	12.3	12.3	12.3	12.3	20.9	38.4	55.7	73.1	90.6	92.3
105°	121.8	125.2	128.6	132.0	135.4	136.7	135.8	135.0	134.1	133.3	132.8
107.5°	169.7	169.3	168.9	168.6	168.2	167.9	167.4	167.0	166.5	166.2	165.5
110°	190.5	190.2	189.9	189.6	189.4	189.2	189.0	188.8	188.6	188.4	187.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	211.3	211.0	210.7	210.3	209.9	209.7	209.8	209.8	209.9	209.9	209.6
115°	241.8	241.8	241.8	241.8	241.8	241.7	241.5	241.3	241.1	240.9	241.0
117.5°	272.7	272.8	272.8	272.8	272.9	272.9	273.0	273.0	273.0	273.1	272.9
120°	292.2	292.4	292.6	292.8	292.9	292.9	292.8	292.6	292.4	292.2	292.3
122.5°	311.3	311.5	311.7	311.9	312.1	312.1	312.0	311.9	311.8	311.7	311.5
125°	340.0	339.9	339.8	339.7	339.6	339.4	339.1	338.8	338.6	338.3	338.5
127.5°	365.2	365.3	365.3	365.4	365.5	365.6	365.6	365.7	365.8	365.8	365.4
130°	382.3	382.3	382.3	382.3	382.3	382.3	382.2	382.1	382.0	381.9	381.6
132.5°	398.0	398.1	398.2	398.2	398.3	398.3	398.2	398.1	398.0	397.9	397.6
135°	421.6	421.4	421.2	421.0	420.8	420.7	420.5	420.3	420.1	419.9	419.5
137.5°	441.8	441.9	441.9	442.0	442.0	442.0	441.7	441.5	441.3	441.1	440.6
140°	455.8	455.7	455.6	455.5	455.4	455.2	455.0	454.7	454.4	454.1	453.9
142.5°	467.4	467.4	467.4	467.3	467.3	467.2	467.0	466.7	466.6	466.4	466.3
145°	485.2	485.0	484.8	484.7	484.5	484.4	484.3	484.2	484.1	484.0	484.0
147.5°	500.0	499.9	499.8	499.7	499.6	499.5	499.5	499.5	499.4	499.3	499.4
150°	509.6	509.5	509.4	509.3	509.3	509.2	509.2	509.2	509.2	509.2	509.3
152.5°	517.8	517.8	517.9	518.0	518.0	518.0	517.8	517.6	517.6	517.4	517.6
155°	528.9	529.1	529.4	529.7	530.0	529.9	529.5	529.1	528.8	528.4	528.7
157.5°	538.1	538.6	539.0	539.5	540.0	540.0	539.5	539.0	538.6	538.1	538.4
160°	544.2	544.8	545.4	545.9	546.5	546.5	545.9	545.4	544.8	544.2	544.3
162.5°	549.0	549.6	550.3	550.9	551.6	551.6	551.0	550.4	549.9	549.3	549.4
165°	555.7	556.6	557.4	558.3	559.1	559.2	558.5	557.7	556.9	556.2	556.2
167.5°	560.8	561.8	562.7	563.6	564.6	564.7	563.8	563.0	562.1	561.3	561.4
170°	563.8	564.8	565.7	566.7	567.7	567.8	566.9	566.2	565.4	564.7	564.6
172.5°	565.5	566.6	567.6	568.6	569.7	569.8	569.0	568.3	567.5	566.8	566.7
175°	567.7	568.8	570.0	571.1	572.2	572.4	571.6	570.7	569.9	569.0	568.9
177.5°	569.1	570.0	570.9	571.8	572.7	572.9	572.2	571.7	571.0	570.4	570.2
180°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1



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**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°	7.5	6.8	6.0	5.7	5.6	5.5	5.5	5.4	5.5	5.5	5.6
95°	9.2	9.1	9.0	10.6	13.9	17.1	20.3	23.5	20.3	17.1	13.9
97.5°	32.4	43.1	53.6	58.0	55.9	53.9	51.9	49.9	51.9	53.9	55.9
100°	45.0	58.1	71.2	76.9	75.2	73.5	71.7	70.0	71.7	73.5	75.2
102.5°	94.0	95.7	97.4	97.6	96.3	95.1	93.9	92.7	93.9	95.1	96.3
105°	132.3	131.9	131.4	130.8	130.3	129.7	129.1	128.6	129.1	129.7	130.3
107.5°	164.9	164.2	163.6	163.2	162.9	162.6	162.3	162.0	162.3	162.6	162.9
110°	187.3	186.6	186.1	185.7	185.4	185.1	184.8	184.5	184.8	185.1	185.4





TEST NUMBER: P333015-830

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	209.3	209.2	208.9	208.5	207.9	207.5	206.9	206.4	206.9	207.5	207.9
115°	241.1	241.2	241.3	241.2	240.9	240.6	240.3	240.1	240.3	240.6	240.9
117.5°	272.6	272.4	272.2	271.9	271.5	271.2	270.8	270.4	270.8	271.2	271.5
120°	292.4	292.5	292.6	292.4	292.0	291.6	291.2	290.9	291.2	291.6	292.0
122.5°	311.4	311.2	311.1	310.9	310.8	310.5	310.3	310.0	310.3	310.5	310.8
125°	338.7	338.8	339.0	338.9	338.6	338.2	337.8	337.4	337.8	338.2	338.6
127.5°	365.0	364.5	364.1	363.8	363.7	363.6	363.5	363.4	363.5	363.6	363.7
130°	381.4	381.1	380.8	380.6	380.5	380.4	380.2	380.1	380.2	380.4	380.5
132.5°	397.2	396.9	396.5	396.2	396.1	395.9	395.7	395.6	395.7	395.9	396.1
135°	419.1	418.8	418.4	418.2	418.3	418.4	418.5	418.6	418.5	418.4	418.3
137.5°	440.3	439.8	439.4	439.2	439.1	439.1	439.0	439.0	439.0	439.1	439.1
140°	453.7	453.5	453.3	453.1	452.9	452.7	452.5	452.3	452.5	452.7	452.9
142.5°	466.2	466.0	465.9	465.7	465.3	465.1	464.7	464.3	464.7	465.1	465.3
145°	484.0	484.0	484.0	483.8	483.5	483.2	483.0	482.7	483.0	483.2	483.5
147.5°	499.5	499.5	499.6	499.5	498.9	498.3	497.9	497.3	497.9	498.3	498.9
150°	509.3	509.4	509.5	509.4	509.1	508.7	508.3	507.9	508.3	508.7	509.1
152.5°	517.7	517.9	518.0	518.0	517.6	517.4	517.1	516.8	517.1	517.4	517.6
155°	529.0	529.2	529.5	529.6	529.5	529.4	529.3	529.2	529.3	529.4	529.5
157.5°	538.7	539.0	539.3	539.5	539.6	539.6	539.7	539.8	539.7	539.6	539.6
160°	544.4	544.5	544.6	544.8	545.1	545.4	545.6	545.9	545.6	545.4	545.1
162.5°	549.5	549.6	549.7	550.0	550.3	550.6	551.0	551.4	551.0	550.6	550.3
165°	556.2	556.2	556.2	556.4	556.9	557.3	557.8	558.3	557.8	557.3	556.9
167.5°	561.4	561.5	561.5	561.8	562.3	562.8	563.3	563.7	563.3	562.8	562.3
170°	564.5	564.4	564.3	564.6	565.1	565.7	566.3	566.8	566.3	565.7	565.1
172.5°	566.6	566.5	566.4	566.7	567.2	567.8	568.4	568.9	568.4	567.8	567.2
175°	568.8	568.7	568.6	568.8	569.4	570.0	570.5	571.1	570.5	570.0	569.4
177.5°	570.1	570.0	569.9	570.0	570.5	571.1	571.7	572.1	571.7	571.1	570.5
180°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1



TEST NUMBER: P333015-830

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

**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°	5.7	6.0	6.8	7.5	8.3	9.0	9.6	10.2	10.7	11.3	11.6
95°	10.6	9.0	9.1	9.2	9.3	9.4	10.0	10.6	11.1	11.7	12.0
97.5°	58.0	53.6	43.1	32.4	21.9	11.3	11.3	11.4	11.4	11.5	11.6
100°	76.9	71.2	58.1	45.0	31.9	18.8	17.2	15.6	13.9	12.3	11.6
102.5°	97.6	97.4	95.7	94.0	92.3	90.6	73.1	55.7	38.4	20.9	12.3
105°	130.8	131.4	131.9	132.3	132.8	133.3	134.1	135.0	135.8	136.7	135.4
107.5°	163.2	163.6	164.2	164.9	165.5	166.2	166.5	167.0	167.4	167.9	168.2
110°	185.7	186.1	186.6	187.3	187.8	188.4	188.6	188.8	189.0	189.2	189.4



TEST NUMBER: P333015-830

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	208.5	208.9	209.2	209.3	209.6	209.9	209.9	209.8	209.8	209.7	209.9
115°	241.2	241.3	241.2	241.1	241.0	240.9	241.1	241.3	241.5	241.7	241.8
117.5°	271.9	272.2	272.4	272.6	272.9	273.1	273.0	273.0	273.0	272.9	272.9
120°	292.4	292.6	292.5	292.4	292.3	292.2	292.4	292.6	292.8	292.9	292.9
122.5°	310.9	311.1	311.2	311.4	311.5	311.7	311.8	311.9	312.0	312.1	312.1
125°	338.9	339.0	338.8	338.7	338.5	338.3	338.6	338.8	339.1	339.4	339.6
127.5°	363.8	364.1	364.5	365.0	365.4	365.8	365.8	365.7	365.6	365.6	365.5
130°	380.6	380.8	381.1	381.4	381.6	381.9	382.0	382.1	382.2	382.3	382.3
132.5°	396.2	396.5	396.9	397.2	397.6	397.9	398.0	398.1	398.2	398.3	398.3
135°	418.2	418.4	418.8	419.1	419.5	419.9	420.1	420.3	420.5	420.7	420.8
137.5°	439.2	439.4	439.8	440.3	440.6	441.1	441.3	441.5	441.7	442.0	442.0
140°	453.1	453.3	453.5	453.7	453.9	454.1	454.4	454.7	455.0	455.2	455.4
142.5°	465.7	465.9	466.0	466.2	466.3	466.4	466.6	466.7	467.0	467.2	467.3
145°	483.8	484.0	484.0	484.0	484.0	484.0	484.1	484.2	484.3	484.4	484.5
147.5°	499.5	499.6	499.5	499.5	499.4	499.3	499.4	499.5	499.5	499.5	499.6
150°	509.4	509.5	509.4	509.3	509.3	509.2	509.2	509.2	509.2	509.2	509.3
152.5°	518.0	518.0	517.9	517.7	517.6	517.4	517.6	517.6	517.8	518.0	518.0
155°	529.6	529.5	529.2	529.0	528.7	528.4	528.8	529.1	529.5	529.9	530.0
157.5°	539.5	539.3	539.0	538.7	538.4	538.1	538.6	539.0	539.5	540.0	540.0
160°	544.8	544.6	544.5	544.4	544.3	544.2	544.8	545.4	545.9	546.5	546.5
162.5°	550.0	549.7	549.6	549.5	549.4	549.3	549.9	550.4	551.0	551.6	551.6
165°	556.4	556.2	556.2	556.2	556.2	556.2	556.9	557.7	558.5	559.2	559.1
167.5°	561.8	561.5	561.5	561.4	561.4	561.3	562.1	563.0	563.8	564.7	564.6
170°	564.6	564.3	564.4	564.5	564.6	564.7	565.4	566.2	566.9	567.8	567.7
172.5°	566.7	566.4	566.5	566.6	566.7	566.8	567.5	568.3	569.0	569.8	569.7
175°	568.8	568.6	568.7	568.8	568.9	569.0	569.9	570.7	571.6	572.4	572.2
177.5°	570.0	569.9	570.0	570.1	570.2	570.4	571.0	571.7	572.2	572.9	572.7
180°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1



TEST NUMBER: P333015-830

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

**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°	11.7	11.7	11.8	11.8	11.8	11.7	11.7	11.6	11.3	10.7	10.2
95°	12.1	12.2	12.3	12.3	12.3	12.2	12.1	12.0	11.7	11.1	10.6
97.5°	11.7	11.8	11.9	12.0	11.9	11.8	11.7	11.6	11.5	11.4	11.4
100°	11.7	11.8	11.9	12.0	11.9	11.8	11.7	11.6	12.3	13.9	15.6
102.5°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	20.9	38.4	55.7
105°	132.0	128.6	125.2	121.8	125.2	128.6	132.0	135.4	136.7	135.8	135.0
107.5°	168.6	168.9	169.3	169.7	169.3	168.9	168.6	168.2	167.9	167.4	167.0
110°	189.6	189.9	190.2	190.5	190.2	189.9	189.6	189.4	189.2	189.0	188.8



TEST NUMBER: P333015-830

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	210.3	210.7	211.0	211.3	211.0	210.7	210.3	209.9	209.7	209.8	209.8
115°	241.8	241.8	241.8	241.8	241.8	241.8	241.8	241.8	241.7	241.5	241.3
117.5°	272.8	272.8	272.8	272.7	272.8	272.8	272.8	272.9	272.9	273.0	273.0
120°	292.8	292.6	292.4	292.2	292.4	292.6	292.8	292.9	292.9	292.8	292.6
122.5°	311.9	311.7	311.5	311.3	311.5	311.7	311.9	312.1	312.1	312.0	311.9
125°	339.7	339.8	339.9	340.0	339.9	339.8	339.7	339.6	339.4	339.1	338.8
127.5°	365.4	365.3	365.3	365.2	365.3	365.3	365.4	365.5	365.6	365.6	365.7
130°	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.2	382.1
132.5°	398.2	398.2	398.1	398.0	398.1	398.2	398.2	398.3	398.3	398.2	398.1
135°	421.0	421.2	421.4	421.6	421.4	421.2	421.0	420.8	420.7	420.5	420.3
137.5°	442.0	441.9	441.9	441.8	441.9	441.9	442.0	442.0	442.0	441.7	441.5
140°	455.5	455.6	455.7	455.8	455.7	455.6	455.5	455.4	455.2	455.0	454.7
142.5°	467.3	467.4	467.4	467.4	467.4	467.4	467.3	467.3	467.2	467.0	466.7
145°	484.7	484.8	485.0	485.2	485.0	484.8	484.7	484.5	484.4	484.3	484.2
147.5°	499.7	499.8	499.9	500.0	499.9	499.8	499.7	499.6	499.5	499.5	499.5
150°	509.3	509.4	509.5	509.6	509.5	509.4	509.3	509.3	509.2	509.2	509.2
152.5°	518.0	517.9	517.8	517.8	517.8	517.9	518.0	518.0	518.0	517.8	517.6
155°	529.7	529.4	529.1	528.9	529.1	529.4	529.7	530.0	529.9	529.5	529.1
157.5°	539.5	539.0	538.6	538.1	538.6	539.0	539.5	540.0	540.0	539.5	539.0
160°	545.9	545.4	544.8	544.2	544.8	545.4	545.9	546.5	546.5	545.9	545.4
162.5°	550.9	550.3	549.6	549.0	549.6	550.3	550.9	551.6	551.6	551.0	550.4
165°	558.3	557.4	556.6	555.7	556.6	557.4	558.3	559.1	559.2	558.5	557.7
167.5°	563.6	562.7	561.8	560.8	561.8	562.7	563.6	564.6	564.7	563.8	563.0
170°	566.7	565.7	564.8	563.8	564.8	565.7	566.7	567.7	567.8	566.9	566.2
172.5°	568.6	567.6	566.6	565.5	566.6	567.6	568.6	569.7	569.8	569.0	568.3
175°	571.1	570.0	568.8	567.7	568.8	570.0	571.1	572.2	572.4	571.6	570.7
177.5°	571.8	570.9	570.0	569.1	570.0	570.9	571.8	572.7	572.9	572.2	571.7
180°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1



TEST NUMBER: P333015-830

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

**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°	9.6	9.0	8.3	7.5	6.8	6.0	5.7	5.6	5.5	5.5	5.4
95°	10.0	9.4	9.3	9.2	9.1	9.0	10.6	13.9	17.1	20.3	23.5
97.5°	11.3	11.3	21.9	32.4	43.1	53.6	58.0	55.9	53.9	51.9	49.9
100°	17.2	18.8	31.9	45.0	58.1	71.2	76.9	75.2	73.5	71.7	70.0
102.5°	73.1	90.6	92.3	94.0	95.7	97.4	97.6	96.3	95.1	93.9	92.7
105°	134.1	133.3	132.8	132.3	131.9	131.4	130.8	130.3	129.7	129.1	128.6
107.5°	166.5	166.2	165.5	164.9	164.2	163.6	163.2	162.9	162.6	162.3	162.0
110°	188.6	188.4	187.8	187.3	186.6	186.1	185.7	185.4	185.1	184.8	184.5



TEST NUMBER: P333015-830

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	209.9	209.9	209.6	209.3	209.2	208.9	208.5	207.9	207.5	206.9	206.4
115°	241.1	240.9	241.0	241.1	241.2	241.3	241.2	240.9	240.6	240.3	240.1
117.5°	273.0	273.1	272.9	272.6	272.4	272.2	271.9	271.5	271.2	270.8	270.4
120°	292.4	292.2	292.3	292.4	292.5	292.6	292.4	292.0	291.6	291.2	290.9
122.5°	311.8	311.7	311.5	311.4	311.2	311.1	310.9	310.8	310.5	310.3	310.0
125°	338.6	338.3	338.5	338.7	338.8	339.0	338.9	338.6	338.2	337.8	337.4
127.5°	365.8	365.8	365.4	365.0	364.5	364.1	363.8	363.7	363.6	363.5	363.4
130°	382.0	381.9	381.6	381.4	381.1	380.8	380.6	380.5	380.4	380.2	380.1
132.5°	398.0	397.9	397.6	397.2	396.9	396.5	396.2	396.1	395.9	395.7	395.6
135°	420.1	419.9	419.5	419.1	418.8	418.4	418.2	418.3	418.4	418.5	418.6
137.5°	441.3	441.1	440.6	440.3	439.8	439.4	439.2	439.1	439.1	439.0	439.0
140°	454.4	454.1	453.9	453.7	453.5	453.3	453.1	452.9	452.7	452.5	452.3
142.5°	466.6	466.4	466.3	466.2	466.0	465.9	465.7	465.3	465.1	464.7	464.3
145°	484.1	484.0	484.0	484.0	484.0	484.0	483.8	483.5	483.2	483.0	482.7
147.5°	499.4	499.3	499.4	499.5	499.5	499.6	499.5	498.9	498.3	497.9	497.3
150°	509.2	509.2	509.3	509.3	509.4	509.5	509.4	509.1	508.7	508.3	507.9
152.5°	517.6	517.4	517.6	517.7	517.9	518.0	518.0	517.6	517.4	517.1	516.8
155°	528.8	528.4	528.7	529.0	529.2	529.5	529.6	529.5	529.4	529.3	529.2
157.5°	538.6	538.1	538.4	538.7	539.0	539.3	539.5	539.6	539.6	539.7	539.8
160°	544.8	544.2	544.3	544.4	544.5	544.6	544.8	545.1	545.4	545.6	545.9
162.5°	549.9	549.3	549.4	549.5	549.6	549.7	550.0	550.3	550.6	551.0	551.4
165°	556.9	556.2	556.2	556.2	556.2	556.2	556.4	556.9	557.3	557.8	558.3
167.5°	562.1	561.3	561.4	561.4	561.5	561.5	561.8	562.3	562.8	563.3	563.7
170°	565.4	564.7	564.6	564.5	564.4	564.3	564.6	565.1	565.7	566.3	566.8
172.5°	567.5	566.8	566.7	566.6	566.5	566.4	566.7	567.2	567.8	568.4	568.9
175°	569.9	569.0	568.9	568.8	568.7	568.6	568.8	569.4	570.0	570.5	571.1
177.5°	571.0	570.4	570.2	570.1	570.0	569.9	570.0	570.5	571.1	571.7	572.1
180°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1



TEST NUMBER: P333015-830

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

**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°	5.5	5.5	5.6	5.7	6.0	6.8	7.5	8.3	9.0	9.6	10.2
95°	20.3	17.1	13.9	10.6	9.0	9.1	9.2	9.3	9.4	10.0	10.6
97.5°	51.9	53.9	55.9	58.0	53.6	43.1	32.4	21.9	11.3	11.3	11.4
100°	71.7	73.5	75.2	76.9	71.2	58.1	45.0	31.9	18.8	17.2	15.6
102.5°	93.9	95.1	96.3	97.6	97.4	95.7	94.0	92.3	90.6	73.1	55.7
105°	129.1	129.7	130.3	130.8	131.4	131.9	132.3	132.8	133.3	134.1	135.0
107.5°	162.3	162.6	162.9	163.2	163.6	164.2	164.9	165.5	166.2	166.5	167.0
110°	184.8	185.1	185.4	185.7	186.1	186.6	187.3	187.8	188.4	188.6	188.8





TEST NUMBER: P333015-830

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

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	206.9	207.5	207.9	208.5	208.9	209.2	209.3	209.6	209.9	209.9	209.8
115°	240.3	240.6	240.9	241.2	241.3	241.2	241.1	241.0	240.9	241.1	241.3
117.5°	270.8	271.2	271.5	271.9	272.2	272.4	272.6	272.9	273.1	273.0	273.0
120°	291.2	291.6	292.0	292.4	292.6	292.5	292.4	292.3	292.2	292.4	292.6
122.5°	310.3	310.5	310.8	310.9	311.1	311.2	311.4	311.5	311.7	311.8	311.9
125°	337.8	338.2	338.6	338.9	339.0	338.8	338.7	338.5	338.3	338.6	338.8
127.5°	363.5	363.6	363.7	363.8	364.1	364.5	365.0	365.4	365.8	365.8	365.7
130°	380.2	380.4	380.5	380.6	380.8	381.1	381.4	381.6	381.9	382.0	382.1
132.5°	395.7	395.9	396.1	396.2	396.5	396.9	397.2	397.6	397.9	398.0	398.1
135°	418.5	418.4	418.3	418.2	418.4	418.8	419.1	419.5	419.9	420.1	420.3
137.5°	439.0	439.1	439.1	439.2	439.4	439.8	440.3	440.6	441.1	441.3	441.5
140°	452.5	452.7	452.9	453.1	453.3	453.5	453.7	453.9	454.1	454.4	454.7
142.5°	464.7	465.1	465.3	465.7	465.9	466.0	466.2	466.3	466.4	466.6	466.7
145°	483.0	483.2	483.5	483.8	484.0	484.0	484.0	484.0	484.0	484.1	484.2
147.5°	497.9	498.3	498.9	499.5	499.6	499.5	499.5	499.4	499.3	499.4	499.5
150°	508.3	508.7	509.1	509.4	509.5	509.4	509.3	509.3	509.2	509.2	509.2
152.5°	517.1	517.4	517.6	518.0	518.0	517.9	517.7	517.6	517.4	517.6	517.6
155°	529.3	529.4	529.5	529.6	529.5	529.2	529.0	528.7	528.4	528.8	529.1
157.5°	539.7	539.6	539.6	539.5	539.3	539.0	538.7	538.4	538.1	538.6	539.0
160°	545.6	545.4	545.1	544.8	544.6	544.5	544.4	544.3	544.2	544.8	545.4
162.5°	551.0	550.6	550.3	550.0	549.7	549.6	549.5	549.4	549.3	549.9	550.4
165°	557.8	557.3	556.9	556.4	556.2	556.2	556.2	556.2	556.2	556.9	557.7
167.5°	563.3	562.8	562.3	561.8	561.5	561.5	561.4	561.4	561.3	562.1	563.0
170°	566.3	565.7	565.1	564.6	564.3	564.4	564.5	564.6	564.7	565.4	566.2
172.5°	568.4	567.8	567.2	566.7	566.4	566.5	566.6	566.7	566.8	567.5	568.3
175°	570.5	570.0	569.4	568.8	568.6	568.7	568.8	568.9	569.0	569.9	570.7
177.5°	571.7	571.1	570.5	570.0	569.9	570.0	570.1	570.2	570.4	571.0	571.7
180°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1



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**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°	10.7	11.3	11.6	11.7	11.7	11.8	11.8
95°	11.1	11.7	12.0	12.1	12.2	12.3	12.3
97.5°	11.4	11.5	11.6	11.7	11.8	11.9	12.0
100°	13.9	12.3	11.6	11.7	11.8	11.9	12.0
102.5°	38.4	20.9	12.3	12.3	12.3	12.3	12.3
105°	135.8	136.7	135.4	132.0	128.6	125.2	121.8
107.5°	167.4	167.9	168.2	168.6	168.9	169.3	169.7
110°	189.0	189.2	189.4	189.6	189.9	190.2	190.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	209.8	209.7	209.9	210.3	210.7	211.0	211.3
115°	241.5	241.7	241.8	241.8	241.8	241.8	241.8
117.5°	273.0	272.9	272.9	272.8	272.8	272.8	272.7
120°	292.8	292.9	292.9	292.8	292.6	292.4	292.2
122.5°	312.0	312.1	312.1	311.9	311.7	311.5	311.3
125°	339.1	339.4	339.6	339.7	339.8	339.9	340.0
127.5°	365.6	365.6	365.5	365.4	365.3	365.3	365.2
130°	382.2	382.3	382.3	382.3	382.3	382.3	382.3
132.5°	398.2	398.3	398.3	398.2	398.2	398.1	398.0
135°	420.5	420.7	420.8	421.0	421.2	421.4	421.6
137.5°	441.7	442.0	442.0	442.0	441.9	441.9	441.8
140°	455.0	455.2	455.4	455.5	455.6	455.7	455.8
142.5°	467.0	467.2	467.3	467.3	467.4	467.4	467.4
145°	484.3	484.4	484.5	484.7	484.8	485.0	485.2
147.5°	499.5	499.5	499.6	499.7	499.8	499.9	500.0
150°	509.2	509.2	509.3	509.3	509.4	509.5	509.6
152.5°	517.8	518.0	518.0	518.0	517.9	517.8	517.8
155°	529.5	529.9	530.0	529.7	529.4	529.1	528.9
157.5°	539.5	540.0	540.0	539.5	539.0	538.6	538.1
160°	545.9	546.5	546.5	545.9	545.4	544.8	544.2
162.5°	551.0	551.6	551.6	550.9	550.3	549.6	549.0
165°	558.5	559.2	559.1	558.3	557.4	556.6	555.7
167.5°	563.8	564.7	564.6	563.6	562.7	561.8	560.8
170°	566.9	567.8	567.7	566.7	565.7	564.8	563.8
172.5°	569.0	569.8	569.7	568.6	567.6	566.6	565.5
175°	571.6	572.4	572.2	571.1	570.0	568.8	567.7
177.5°	572.2	572.9	572.7	571.8	570.9	570.0	569.1
180°	571.1	571.1	571.1	571.1	571.1	571.1	571.1

(END OF REPORT)