

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: P332715-830

Luminaire Tested: **S124DIW-S350D470U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332715-830
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: S124DIW-S350D470U830-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3254.0 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

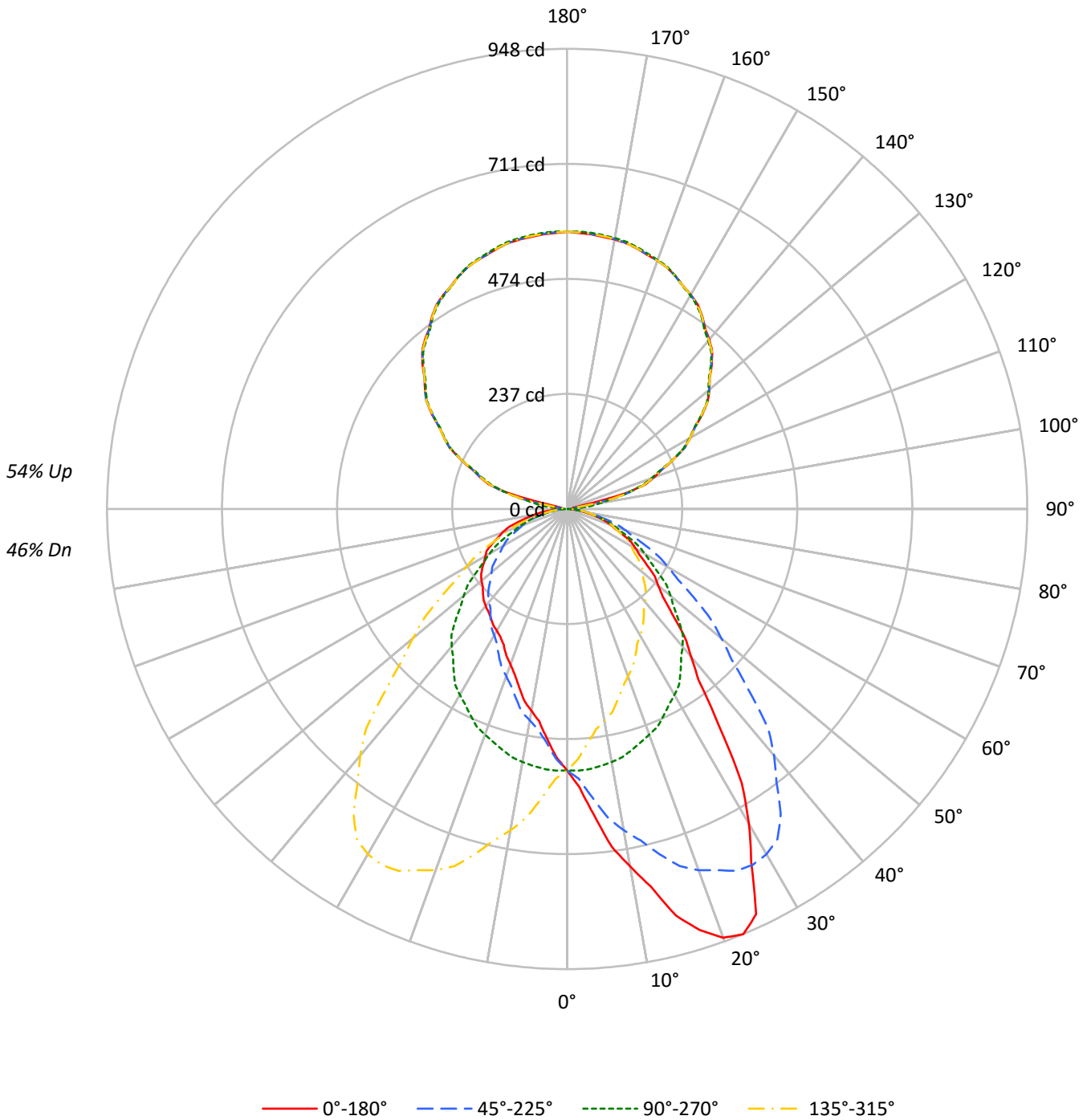
Input Watts (W): 23
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46				46
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44				39	
2	88	81	75	70	81	75	70	65	63	59	56	51	49	46	41	39	38				33	
3	81	72	64	59	74	66	60	55	55	51	47	46	42	40	37	34	32				28	
4	74	63	56	50	68	59	52	47	49	44	40	41	37	34	33	30	28				24	
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25				21	
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22				19	
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19				17	
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17				15	
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16				13	
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	19	16	14				12	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4347	4347	4347	4347
5°	5119	4358	3847	4358
10°	6129	4339	3463	4339
15°	7252	4296	3181	4296
20°	8076	4250	2928	4250
25°	8206	4185	2754	4185
30°	6982	4121	2699	4121
35°	5368	4018	2699	4018
40°	4185	3898	2751	3898
45°	3489	3716	2797	3716
50°	3071	3493	2891	3493
55°	2814	3227	3008	3227
60°	2635	2989	3147	2989
65°	2455	2722	3265	2722
70°	2242	2460	3338	2460
75°	2006	2165	3300	2165
80°	1678	1776	3194	1776
85°	1241	1288	3057	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	1.6
10°-20°	161.7	5.0
20°-30°	256.4	7.9
30°-40°	285.4	8.8
40°-50°	259.8	8.0
50°-60°	212.3	6.5
60°-70°	151.5	4.7
70°-80°	83.4	2.6
80°-90°	24.4	0.8
90°-100°	19.5	0.6
100°-110°	124.6	3.8
110°-120°	238.3	7.3
120°-130°	302.4	9.3
130°-140°	323.6	9.9
140°-150°	302.6	9.3
150°-160°	244.0	7.5
160°-170°	157.4	4.8
170°-180°	54.2	1.7
0°-30°	470.6	14.5
0°-40°	755.9	23.2
0°-60°	1227.9	37.7
0°-90°	1487.4	45.7
90°-120°	382.4	11.8
90°-150°	1311.0	40.3
90°-180°	1767.0	54.3
0°-180°	3254.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	538	538	538	538	538	
5°	632	538	475	538	632	64
15°	868	514	381	514	868	245
25°	921	470	309	470	921	406
35°	545	408	274	408	545	346
45°	306	326	245	326	306	241
55°	200	229	214	229	200	181
65°	128	142	171	142	128	127
75°	64	69	106	69	64	68
85°	13	14	33	14	13	17
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°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	573.1	573.0	571.2	570.8	569.6	568.0	567.6	564.7	559.0	556.3	555.6
5°	631.7	636.2	630.4	629.2	628.6	621.2	617.5	613.0	602.8	596.7	592.0
7.5°	701.7	702.2	699.6	697.7	691.9	685.5	675.9	665.6	653.4	640.7	631.1
10°	747.7	749.5	746.6	746.2	734.8	727.6	713.4	701.3	687.5	672.1	658.1
12.5°	796.3	793.8	792.3	782.8	780.6	767.6	751.0	738.7	717.3	699.6	680.9
15°	867.7	862.8	859.7	846.6	840.1	822.0	804.4	790.8	762.9	736.3	716.2
17.5°	909.6	914.5	907.4	901.9	885.2	872.5	854.5	826.0	804.2	771.2	745.8
20°	940.0	940.5	936.4	930.9	917.8	901.6	882.0	850.8	824.7	791.9	757.1
22.5°	948.2	948.3	946.6	941.4	931.4	918.4	898.6	872.5	840.9	805.3	770.4
25°	921.2	920.4	922.4	928.2	924.4	920.4	909.0	889.6	860.2	822.5	784.9
27.5°	821.1	827.4	838.7	852.9	866.7	877.1	880.1	876.1	857.9	826.9	787.6
30°	749.0	756.7	765.2	779.4	807.1	822.9	840.3	853.5	846.1	821.3	784.8
32.5°	669.9	671.8	684.3	700.5	725.9	756.3	783.9	810.7	819.5	806.5	776.0
35°	544.7	547.9	561.5	577.5	608.5	645.8	687.3	724.3	754.9	767.1	751.5
37.5°	444.5	453.5	463.1	480.3	507.7	541.2	584.3	632.3	677.8	708.3	713.5
40°	397.1	402.7	409.5	422.7	445.9	478.9	515.9	570.8	619.3	663.0	677.2
42.5°	359.6	362.9	367.1	379.0	396.6	429.5	463.4	511.6	560.2	612.5	636.4
45°	305.6	309.0	316.1	323.0	336.4	359.1	390.6	430.3	479.2	529.5	573.7
47.5°	266.6	268.7	273.0	280.4	291.8	306.8	332.3	365.5	410.8	459.8	506.8
50°	244.5	246.3	249.6	256.3	265.0	278.4	299.4	330.4	365.8	415.1	461.3
52.5°	227.0	227.7	230.2	234.7	241.7	252.9	270.1	295.8	328.8	372.7	418.7
55°	199.9	200.8	203.0	206.3	212.4	219.5	232.6	251.8	280.6	318.8	358.7
57.5°	177.6	178.2	180.0	181.3	186.3	192.1	202.3	215.9	237.7	270.1	305.8
60°	163.2	162.9	165.0	166.2	169.6	174.5	182.3	195.4	214.3	240.4	273.2
62.5°	149.4	148.7	150.6	152.1	154.0	158.2	164.6	174.8	190.3	213.9	242.2
65°	128.5	127.6	128.8	130.5	132.2	134.5	139.2	148.4	160.6	177.6	199.2
67.5°	107.5	108.5	108.7	109.5	110.6	113.6	116.8	123.3	132.0	145.5	163.8
70°	95.0	95.3	96.1	96.1	96.8	99.5	102.2	105.9	114.4	127.0	141.9
72.5°	82.6	83.5	83.1	83.8	84.4	86.1	88.0	91.7	98.9	108.2	120.8
75°	64.3	64.9	64.9	65.1	65.8	66.4	68.1	70.7	75.9	82.8	91.4
77.5°	46.8	46.9	47.2	48.1	48.1	49.1	50.2	52.4	55.0	59.7	65.0
80°	36.1	36.6	36.4	36.9	36.9	37.7	38.2	40.8	41.9	45.1	49.3
82.5°	26.5	27.0	26.9	27.5	27.9	28.1	28.7	29.8	30.9	33.6	35.3
85°	13.4	13.9	13.4	13.9	14.5	14.7	15.4	15.6	16.5	17.2	18.8
87.5°	6.5	7.0	7.0	7.1	7.4	7.5	7.5	7.3	7.9	7.9	8.5
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°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	555.8	553.3	551.5	550.1	546.2	543.8	542.1	539.6	536.7	533.7	529.9
5°	587.3	579.8	574.2	565.7	557.7	551.0	544.0	537.8	530.3	522.0	515.9
7.5°	620.5	609.2	594.7	582.2	568.1	555.8	544.9	533.7	522.0	510.6	500.2
10°	641.6	627.1	611.0	592.0	574.2	558.4	543.7	529.3	515.5	501.7	489.8
12.5°	664.2	646.1	622.4	600.2	580.2	559.0	541.3	523.8	507.1	492.6	478.8
15°	694.7	668.5	641.1	611.4	585.1	560.3	536.0	514.0	495.2	476.0	462.6
17.5°	713.3	681.0	649.7	618.7	586.8	555.5	529.3	503.9	480.4	461.4	444.5
20°	725.7	693.5	654.5	623.5	585.6	553.5	523.1	494.7	470.2	450.0	432.5
22.5°	736.3	699.3	660.2	619.3	581.6	547.5	514.3	485.9	460.8	439.4	422.7
25°	742.2	699.6	657.1	616.5	573.7	533.4	503.2	469.8	443.0	420.5	402.7
27.5°	742.8	697.2	649.2	604.2	560.0	522.4	484.4	454.4	426.7	402.8	385.7
30°	740.8	693.3	641.8	593.0	548.6	507.7	474.7	442.1	413.8	390.1	372.3
32.5°	734.5	685.1	632.2	580.4	534.4	494.5	460.4	429.4	401.8	378.5	359.8
35°	716.5	667.6	611.2	557.4	510.4	470.0	439.2	407.7	380.1	358.1	340.0
37.5°	688.2	644.1	586.7	531.1	484.8	444.3	413.8	385.4	360.4	338.0	319.5
40°	663.6	624.8	567.2	513.0	463.1	424.5	396.0	369.9	345.1	323.9	306.2
42.5°	635.3	601.4	548.4	491.0	442.7	404.0	376.2	352.7	329.4	309.8	292.2
45°	584.7	562.3	512.4	459.3	409.1	372.5	346.0	325.5	305.9	286.6	271.9
47.5°	526.5	515.4	473.3	422.9	375.3	339.2	316.2	297.3	280.0	263.8	250.8
50°	487.4	482.0	445.7	397.1	351.6	317.6	294.5	278.1	263.4	249.2	236.9
52.5°	448.8	448.7	415.8	371.4	329.2	296.6	273.5	258.4	245.6	234.0	223.0
55°	389.9	396.2	370.5	330.8	293.1	263.6	242.9	229.3	220.4	210.8	202.6
57.5°	335.8	346.2	325.0	290.0	258.5	231.5	213.4	203.2	193.7	187.8	181.8
60°	300.5	310.3	293.8	264.4	234.7	211.5	194.3	185.1	176.9	172.9	168.6
62.5°	269.1	277.8	265.6	238.3	212.5	190.2	175.7	166.9	161.4	157.0	154.2
65°	224.2	231.6	221.0	201.2	179.1	161.3	149.5	142.5	137.2	135.4	132.2
67.5°	181.3	187.9	182.3	165.4	147.7	134.1	124.9	118.3	115.1	113.6	111.3
70°	155.7	162.4	156.4	141.7	128.0	116.7	107.9	104.2	100.9	100.2	97.1
72.5°	134.1	138.6	132.6	121.1	109.5	99.9	93.1	89.2	87.5	86.2	84.5
75°	100.6	104.6	100.6	91.7	83.4	76.7	71.0	69.4	67.4	66.7	65.6
77.5°	71.2	74.6	71.6	66.1	59.9	54.7	51.6	49.6	49.1	48.0	48.5
80°	54.4	56.6	53.7	50.0	45.1	41.5	39.3	38.2	36.9	36.4	37.2
82.5°	39.1	40.1	38.5	36.0	32.4	30.1	28.6	27.2	27.0	27.1	27.1
85°	20.3	20.1	19.9	17.6	16.5	15.0	14.0	13.9	13.6	14.0	14.5
87.5°	8.4	8.4	8.0	7.2	6.4	5.7	5.3	4.9	5.3	5.7	6.0
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: P332715-830

CATALOG NUMBER: S124DIW-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: P332715-830

CATALOG NUMBER: S124DIW-S350D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	528.1	526.5	524.2	521.0	518.3	515.5	514.7	513.7	515.9	514.1	513.5
5°	510.9	506.1	500.1	493.2	489.2	483.4	482.3	480.0	477.8	477.6	475.3
7.5°	492.5	485.6	477.7	470.7	464.2	457.8	453.6	452.8	449.5	447.5	445.4
10°	480.7	472.2	463.1	456.4	448.8	442.1	437.4	434.8	432.5	430.1	427.8
12.5°	466.8	457.8	450.3	443.0	434.0	429.0	421.2	416.6	416.1	416.1	410.4
15°	450.6	441.7	430.1	419.8	414.9	405.1	400.9	395.5	392.2	388.8	386.2
17.5°	432.1	420.9	411.9	400.1	390.8	383.0	377.4	374.2	369.1	364.4	361.0
20°	420.5	408.7	399.1	386.5	376.4	366.7	362.0	357.6	353.8	349.8	346.0
22.5°	408.7	396.3	384.7	372.5	363.0	352.8	348.3	342.2	338.7	336.4	332.6
25°	390.1	376.7	363.4	351.8	342.0	333.0	327.1	322.3	318.3	316.5	314.1
27.5°	369.9	356.7	343.7	330.5	319.4	312.9	308.1	304.6	302.3	299.9	298.8
30°	357.1	343.3	329.5	317.2	307.0	300.5	296.1	293.6	291.8	290.7	289.5
32.5°	344.1	330.5	315.9	304.7	295.5	289.7	286.3	283.9	283.0	282.7	282.2
35°	323.2	309.4	296.1	286.0	277.3	275.0	272.1	270.8	270.3	271.9	272.6
37.5°	303.0	290.2	277.9	268.2	262.4	259.2	258.2	258.3	259.9	261.2	262.8
40°	290.0	277.5	265.9	257.4	252.0	250.1	249.6	250.7	252.5	254.1	255.9
42.5°	277.3	265.0	254.5	246.6	242.8	240.9	241.2	242.3	244.9	246.8	249.4
45°	257.7	247.4	237.1	230.6	227.5	228.0	228.0	230.0	232.4	235.4	238.3
47.5°	239.1	228.8	220.4	214.9	213.3	212.9	214.1	216.8	220.3	223.9	227.9
50°	226.7	216.8	209.4	204.5	202.7	203.4	205.2	207.6	211.9	216.4	220.6
52.5°	214.0	205.0	198.2	193.7	192.4	193.6	195.4	199.3	203.0	207.8	212.9
55°	194.3	186.7	181.3	178.0	177.6	178.2	180.2	184.5	189.8	195.9	200.8
57.5°	174.7	168.3	163.4	161.2	161.4	162.0	165.3	170.3	176.1	182.5	188.8
60°	161.5	155.7	151.7	149.9	150.1	151.5	155.5	160.1	167.3	173.5	180.2
62.5°	149.0	143.9	140.1	138.5	138.2	141.1	145.0	149.8	156.9	163.9	171.2
65°	128.9	124.9	121.8	120.9	121.6	123.9	128.8	135.2	141.2	148.5	156.2
67.5°	109.3	106.0	103.9	104.2	105.1	108.4	112.4	118.0	124.9	132.5	140.0
70°	96.8	93.7	91.9	92.1	93.5	97.5	101.0	106.6	114.0	121.8	128.0
72.5°	84.0	81.9	80.3	81.2	82.6	85.3	89.8	95.4	101.9	109.1	115.7
75°	64.5	64.5	63.6	64.3	66.3	68.9	72.3	78.0	84.5	90.4	95.7
77.5°	47.8	47.3	47.9	48.7	49.9	53.1	56.9	61.1	65.9	71.7	76.2
80°	36.6	36.9	37.9	39.3	39.7	42.1	46.2	50.0	53.7	58.6	62.9
82.5°	27.5	27.7	28.3	30.0	30.4	33.1	35.6	39.4	42.9	46.2	49.7
85°	15.0	15.0	16.0	16.8	17.8	19.6	21.2	23.5	26.6	28.7	32.1
87.5°	6.8	7.0	7.8	8.4	9.0	10.1	10.6	12.6	13.5	14.5	16.1
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: P332715-830

CATALOG NUMBER: S124DIW-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: P332715-830

CATALOG NUMBER: S124DIW-S350D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	513.1	512.8	511.5	511.3	511.5	512.8	513.1	513.5	514.1	515.9	513.7
5°	474.0	472.9	472.2	474.7	472.2	472.9	474.0	475.3	477.6	477.8	480.0
7.5°	444.5	443.7	441.7	441.0	441.7	443.7	444.5	445.4	447.5	449.5	452.8
10°	425.7	424.7	422.9	422.4	422.9	424.7	425.7	427.8	430.1	432.5	434.8
12.5°	407.4	405.7	405.3	405.8	405.3	405.7	407.4	410.4	416.1	416.1	416.6
15°	383.2	382.3	379.8	380.6	379.8	382.3	383.2	386.2	388.8	392.2	395.5
17.5°	359.4	358.4	355.3	358.0	355.3	358.4	359.4	361.0	364.4	369.1	374.2
20°	344.4	342.6	341.1	340.8	341.1	342.6	344.4	346.0	349.8	353.8	357.6
22.5°	330.2	328.6	328.4	327.0	328.4	328.6	330.2	332.6	336.4	338.7	342.2
25°	312.3	310.8	310.3	309.2	310.3	310.8	312.3	314.1	316.5	318.3	322.3
27.5°	298.6	297.8	297.0	297.4	297.0	297.8	298.6	298.8	299.9	302.3	304.6
30°	290.2	290.0	289.5	289.5	289.5	290.0	290.2	289.5	290.7	291.8	293.6
32.5°	283.2	283.2	283.5	283.5	283.5	283.2	283.2	282.2	282.7	283.0	283.9
35°	273.5	274.2	274.6	273.9	274.6	274.2	273.5	272.6	271.9	270.3	270.8
37.5°	264.7	265.3	266.0	266.7	266.0	265.3	264.7	262.8	261.2	259.9	258.3
40°	257.9	259.4	259.9	261.0	259.9	259.4	257.9	255.9	254.1	252.5	250.7
42.5°	251.5	253.2	254.3	254.6	254.3	253.2	251.5	249.4	246.8	244.9	242.3
45°	241.6	243.4	245.0	245.0	245.0	243.4	241.6	238.3	235.4	232.4	230.0
47.5°	231.4	233.9	235.5	235.9	235.5	233.9	231.4	227.9	223.9	220.3	216.8
50°	224.4	227.5	229.1	230.2	229.1	227.5	224.4	220.6	216.4	211.9	207.6
52.5°	217.6	220.7	222.8	223.4	222.8	220.7	217.6	212.9	207.8	203.0	199.3
55°	205.9	210.4	212.8	213.7	212.8	210.4	205.9	200.8	195.9	189.8	184.5
57.5°	194.8	199.0	201.8	202.5	201.8	199.0	194.8	188.8	182.5	176.1	170.3
60°	186.2	190.8	194.3	194.9	194.3	190.8	186.2	180.2	173.5	167.3	160.1
62.5°	177.5	182.2	185.4	187.1	185.4	182.2	177.5	171.2	163.9	156.9	149.8
65°	162.4	167.1	170.2	170.9	170.2	167.1	162.4	156.2	148.5	141.2	135.2
67.5°	145.9	150.6	152.6	153.9	152.6	150.6	145.9	140.0	132.5	124.9	118.0
70°	134.3	138.1	140.3	141.4	140.3	138.1	134.3	128.0	121.8	114.0	106.6
72.5°	121.1	125.1	127.6	127.9	127.6	125.1	121.1	115.7	109.1	101.9	95.4
75°	100.9	104.4	105.8	105.8	105.8	104.4	100.9	95.7	90.4	84.5	78.0
77.5°	79.8	81.6	83.3	83.7	83.3	81.6	79.8	76.2	71.7	65.9	61.1
80°	66.3	67.4	68.7	68.7	68.7	67.4	66.3	62.9	58.6	53.7	50.0
82.5°	52.3	53.3	54.6	54.4	54.6	53.3	52.3	49.7	46.2	42.9	39.4
85°	31.7	33.6	33.5	33.0	33.5	33.6	31.7	32.1	28.7	26.6	23.5
87.5°	16.7	17.0	17.5	17.9	17.5	17.0	16.7	16.1	14.5	13.5	12.6
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: P332715-830

CATALOG NUMBER: S124DIW-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: P332715-830

CATALOG NUMBER: S124DIW-S350D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	514.7	515.5	518.3	521.0	524.2	526.5	528.1	529.9	533.7	536.7	539.6
5°	482.3	483.4	489.2	493.2	500.1	506.1	510.9	515.9	522.0	530.3	537.8
7.5°	453.6	457.8	464.2	470.7	477.7	485.6	492.5	500.2	510.6	522.0	533.7
10°	437.4	442.1	448.8	456.4	463.1	472.2	480.7	489.8	501.7	515.5	529.3
12.5°	421.2	429.0	434.0	443.0	450.3	457.8	466.8	478.8	492.6	507.1	523.8
15°	400.9	405.1	414.9	419.8	430.1	441.7	450.6	462.6	476.0	495.2	514.0
17.5°	377.4	383.0	390.8	400.1	411.9	420.9	432.1	444.5	461.4	480.4	503.9
20°	362.0	366.7	376.4	386.5	399.1	408.7	420.5	432.5	450.0	470.2	494.7
22.5°	348.3	352.8	363.0	372.5	384.7	396.3	408.7	422.7	439.4	460.8	485.9
25°	327.1	333.0	342.0	351.8	363.4	376.7	390.1	402.7	420.5	443.0	469.8
27.5°	308.1	312.9	319.4	330.5	343.7	356.7	369.9	385.7	402.8	426.7	454.4
30°	296.1	300.5	307.0	317.2	329.5	343.3	357.1	372.3	390.1	413.8	442.1
32.5°	286.3	289.7	295.5	304.7	315.9	330.5	344.1	359.8	378.5	401.8	429.4
35°	272.1	275.0	277.3	286.0	296.1	309.4	323.2	340.0	358.1	380.1	407.7
37.5°	258.2	259.2	262.4	268.2	277.9	290.2	303.0	319.5	338.0	360.4	385.4
40°	249.6	250.1	252.0	257.4	265.9	277.5	290.0	306.2	323.9	345.1	369.9
42.5°	241.2	240.9	242.8	246.6	254.5	265.0	277.3	292.2	309.8	329.4	352.7
45°	228.0	228.0	227.5	230.6	237.1	247.4	257.7	271.9	286.6	305.9	325.5
47.5°	214.1	212.9	213.3	214.9	220.4	228.8	239.1	250.8	263.8	280.0	297.3
50°	205.2	203.4	202.7	204.5	209.4	216.8	226.7	236.9	249.2	263.4	278.1
52.5°	195.4	193.6	192.4	193.7	198.2	205.0	214.0	223.0	234.0	245.6	258.4
55°	180.2	178.2	177.6	178.0	181.3	186.7	194.3	202.6	210.8	220.4	229.3
57.5°	165.3	162.0	161.4	161.2	163.4	168.3	174.7	181.8	187.8	193.7	203.2
60°	155.5	151.5	150.1	149.9	151.7	155.7	161.5	168.6	172.9	176.9	185.1
62.5°	145.0	141.1	138.2	138.5	140.1	143.9	149.0	154.2	157.0	161.4	166.9
65°	128.8	123.9	121.6	120.9	121.8	124.9	128.9	132.2	135.4	137.2	142.5
67.5°	112.4	108.4	105.1	104.2	103.9	106.0	109.3	111.3	113.6	115.1	118.3
70°	101.0	97.5	93.5	92.1	91.9	93.7	96.8	97.1	100.2	100.9	104.2
72.5°	89.8	85.3	82.6	81.2	80.3	81.9	84.0	84.5	86.2	87.5	89.2
75°	72.3	68.9	66.3	64.3	63.6	64.5	64.5	65.6	66.7	67.4	69.4
77.5°	56.9	53.1	49.9	48.7	47.9	47.3	47.8	48.5	48.0	49.1	49.6
80°	46.2	42.1	39.7	39.3	37.9	36.9	36.6	37.2	36.4	36.9	38.2
82.5°	35.6	33.1	30.4	30.0	28.3	27.7	27.5	27.1	27.1	27.0	27.2
85°	21.2	19.6	17.8	16.8	16.0	15.0	15.0	14.5	14.0	13.6	13.9
87.5°	10.6	10.1	9.0	8.4	7.8	7.0	6.8	6.0	5.7	5.3	4.9
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: P332715-830

CATALOG NUMBER: S124DIW-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: P332715-830

CATALOG NUMBER: S124DIW-S350D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	542.1	543.8	546.2	550.1	551.5	553.3	555.8	555.6	556.3	559.0	564.7
5°	544.0	551.0	557.7	565.7	574.2	579.8	587.3	592.0	596.7	602.8	613.0
7.5°	544.9	555.8	568.1	582.2	594.7	609.2	620.5	631.1	640.7	653.4	665.6
10°	543.7	558.4	574.2	592.0	611.0	627.1	641.6	658.1	672.1	687.5	701.3
12.5°	541.3	559.0	580.2	600.2	622.4	646.1	664.2	680.9	699.6	717.3	738.7
15°	536.0	560.3	585.1	611.4	641.1	668.5	694.7	716.2	736.3	762.9	790.8
17.5°	529.3	555.5	586.8	618.7	649.7	681.0	713.3	745.8	771.2	804.2	826.0
20°	523.1	553.5	585.6	623.5	654.5	693.5	725.7	757.1	791.9	824.7	850.8
22.5°	514.3	547.5	581.6	619.3	660.2	699.3	736.3	770.4	805.3	840.9	872.5
25°	503.2	533.4	573.7	616.5	657.1	699.6	742.2	784.9	822.5	860.2	889.6
27.5°	484.4	522.4	560.0	604.2	649.2	697.2	742.8	787.6	826.9	857.9	876.1
30°	474.7	507.7	548.6	593.0	641.8	693.3	740.8	784.8	821.3	846.1	853.5
32.5°	460.4	494.5	534.4	580.4	632.2	685.1	734.5	776.0	806.5	819.5	810.7
35°	439.2	470.0	510.4	557.4	611.2	667.6	716.5	751.5	767.1	754.9	724.3
37.5°	413.8	444.3	484.8	531.1	586.7	644.1	688.2	713.5	708.3	677.8	632.3
40°	396.0	424.5	463.1	513.0	567.2	624.8	663.6	677.2	663.0	619.3	570.8
42.5°	376.2	404.0	442.7	491.0	548.4	601.4	635.3	636.4	612.5	560.2	511.6
45°	346.0	372.5	409.1	459.3	512.4	562.3	584.7	573.7	529.5	479.2	430.3
47.5°	316.2	339.2	375.3	422.9	473.3	515.4	526.5	506.8	459.8	410.8	365.5
50°	294.5	317.6	351.6	397.1	445.7	482.0	487.4	461.3	415.1	365.8	330.4
52.5°	273.5	296.6	329.2	371.4	415.8	448.7	448.8	418.7	372.7	328.8	295.8
55°	242.9	263.6	293.1	330.8	370.5	396.2	389.9	358.7	318.8	280.6	251.8
57.5°	213.4	231.5	258.5	290.0	325.0	346.2	335.8	305.8	270.1	237.7	215.9
60°	194.3	211.5	234.7	264.4	293.8	310.3	300.5	273.2	240.4	214.3	195.4
62.5°	175.7	190.2	212.5	238.3	265.6	277.8	269.1	242.2	213.9	190.3	174.8
65°	149.5	161.3	179.1	201.2	221.0	231.6	224.2	199.2	177.6	160.6	148.4
67.5°	124.9	134.1	147.7	165.4	182.3	187.9	181.3	163.8	145.5	132.0	123.3
70°	107.9	116.7	128.0	141.7	156.4	162.4	155.7	141.9	127.0	114.4	105.9
72.5°	93.1	99.9	109.5	121.1	132.6	138.6	134.1	120.8	108.2	98.9	91.7
75°	71.0	76.7	83.4	91.7	100.6	104.6	100.6	91.4	82.8	75.9	70.7
77.5°	51.6	54.7	59.9	66.1	71.6	74.6	71.2	65.0	59.7	55.0	52.4
80°	39.3	41.5	45.1	50.0	53.7	56.6	54.4	49.3	45.1	41.9	40.8
82.5°	28.6	30.1	32.4	36.0	38.5	40.1	39.1	35.3	33.6	30.9	29.8
85°	14.0	15.0	16.5	17.6	19.9	20.1	20.3	18.8	17.2	16.5	15.6
87.5°	5.3	5.7	6.4	7.2	8.0	8.4	8.4	8.5	7.9	7.9	7.3
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: P332715-830

CATALOG NUMBER: S124DIW-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°	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	567.6	568.0	569.6	570.8	571.2	573.0	573.1
5°	617.5	621.2	628.6	629.2	630.4	636.2	631.7
7.5°	675.9	685.5	691.9	697.7	699.6	702.2	701.7
10°	713.4	727.6	734.8	746.2	746.6	749.5	747.7
12.5°	751.0	767.6	780.6	782.8	792.3	793.8	796.3
15°	804.4	822.0	840.1	846.6	859.7	862.8	867.7
17.5°	854.5	872.5	885.2	901.9	907.4	914.5	909.6
20°	882.0	901.6	917.8	930.9	936.4	940.5	940.0
22.5°	898.6	918.4	931.4	941.4	946.6	948.3	948.2
25°	909.0	920.4	924.4	928.2	922.4	920.4	921.2
27.5°	880.1	877.1	866.7	852.9	838.7	827.4	821.1
30°	840.3	822.9	807.1	779.4	765.2	756.7	749.0
32.5°	783.9	756.3	725.9	700.5	684.3	671.8	669.9
35°	687.3	645.8	608.5	577.5	561.5	547.9	544.7
37.5°	584.3	541.2	507.7	480.3	463.1	453.5	444.5
40°	515.9	478.9	445.9	422.7	409.5	402.7	397.1
42.5°	463.4	429.5	396.6	379.0	367.1	362.9	359.6
45°	390.6	359.1	336.4	323.0	316.1	309.0	305.6
47.5°	332.3	306.8	291.8	280.4	273.0	268.7	266.6
50°	299.4	278.4	265.0	256.3	249.6	246.3	244.5
52.5°	270.1	252.9	241.7	234.7	230.2	227.7	227.0
55°	232.6	219.5	212.4	206.3	203.0	200.8	199.9
57.5°	202.3	192.1	186.3	181.3	180.0	178.2	177.6
60°	182.3	174.5	169.6	166.2	165.0	162.9	163.2
62.5°	164.6	158.2	154.0	152.1	150.6	148.7	149.4
65°	139.2	134.5	132.2	130.5	128.8	127.6	128.5
67.5°	116.8	113.6	110.6	109.5	108.7	108.5	107.5
70°	102.2	99.5	96.8	96.1	96.1	95.3	95.0
72.5°	88.0	86.1	84.4	83.8	83.1	83.5	82.6
75°	68.1	66.4	65.8	65.1	64.9	64.9	64.3
77.5°	50.2	49.1	48.1	48.1	47.2	46.9	46.8
80°	38.2	37.7	36.9	36.9	36.4	36.6	36.1
82.5°	28.7	28.1	27.9	27.5	26.9	27.0	26.5
85°	15.4	14.7	14.5	13.9	13.4	13.9	13.4
87.5°	7.5	7.5	7.4	7.1	7.0	7.0	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)