

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: P332721-840

Luminaire Tested: **S124DIW-S350D770U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332721-840  
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-S350D770U840-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 770 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4694.9 lumens  
Efficiency: N/A  
Efficacy: 154.4 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: Semi-Indirect

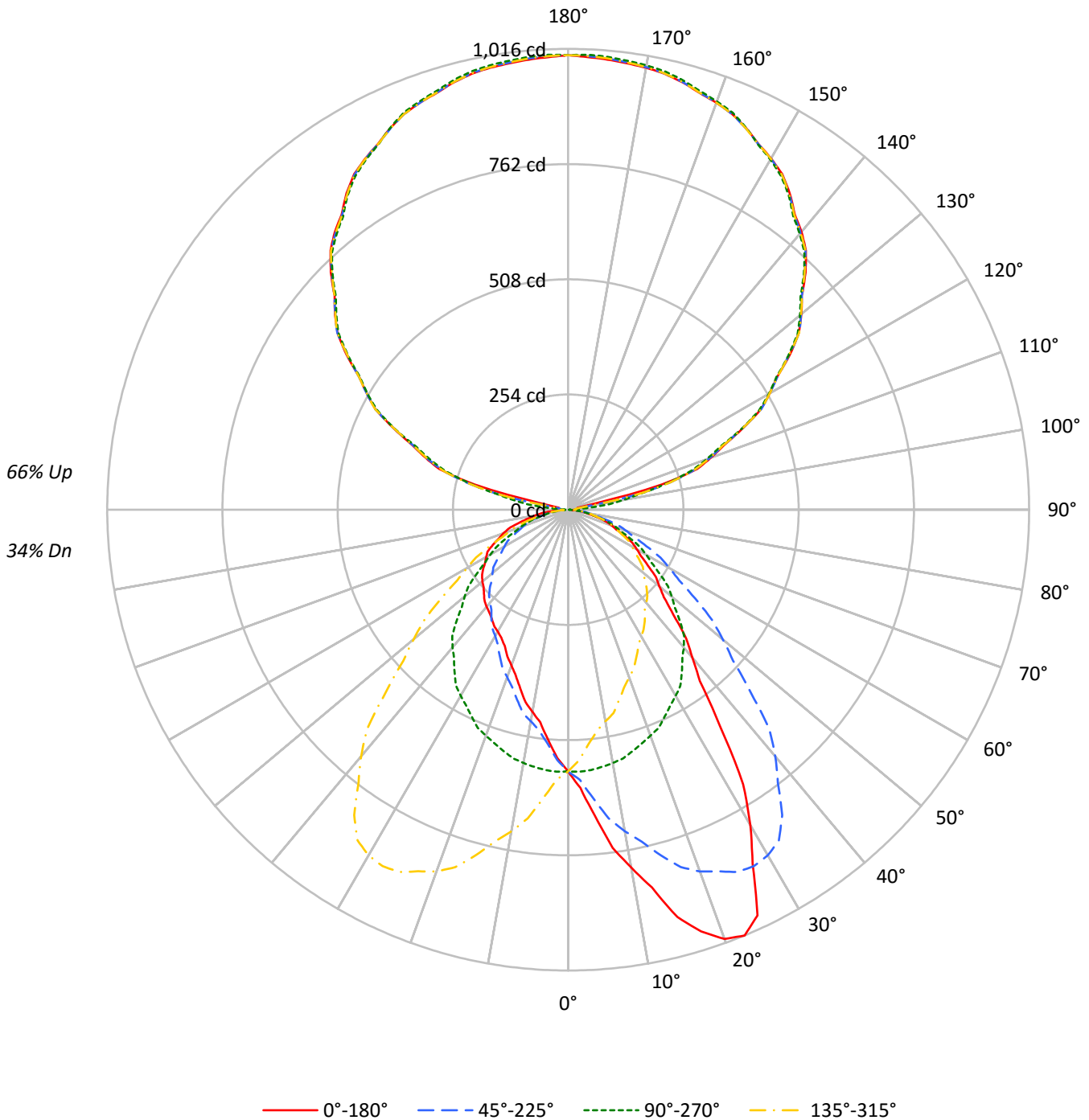
Input Watts (W): 30.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	83	85	82	78	76	65	63	61	50	49	48	37	36	35	29
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	33	31	30	24
3	78	69	62	57	71	63	57	52	51	46	43	39	37	34	29	27	26	21
4	72	61	54	48	65	56	49	44	45	40	37	35	32	29	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	32	32	28	25	23	21	19	16
6	61	49	41	36	55	45	38	33	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	34	29	33	28	24	26	22	20	19	17	15	12
8	52	40	33	27	47	37	30	25	30	25	21	24	20	17	18	15	14	11
9	48	36	29	24	44	33	27	23	27	23	19	22	18	16	16	14	12	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	15	13	11	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	4657	4657	4657	4657
5°	5485	4669	4122	4669
10°	6567	4649	3710	4649
15°	7770	4603	3408	4603
20°	8652	4554	3137	4554
25°	8792	4483	2950	4483
30°	7481	4416	2892	4416
35°	5752	4306	2893	4306
40°	4484	4176	2947	4176
45°	3738	3981	2997	3981
50°	3291	3743	3097	3743
55°	3015	3458	3222	3458
60°	2824	3202	3371	3202
65°	2628	2917	3498	2917
70°	2403	2634	3576	2634
75°	2149	2318	3534	2318
80°	1799	1901	3422	1901
85°	1325	1371	3270	1371



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.2	1.2
10°-20°	173.3	3.7
20°-30°	274.7	5.9
30°-40°	305.7	6.5
40°-50°	278.3	5.9
50°-60°	227.4	4.8
60°-70°	162.4	3.5
70°-80°	89.4	1.9
80°-90°	27.3	0.6
90°-100°	34.3	0.7
100°-110°	218.6	4.7
110°-120°	418.1	8.9
120°-130°	530.7	11.3
130°-140°	567.9	12.1
140°-150°	531.0	11.3
150°-160°	428.2	9.1
160°-170°	276.2	5.9
170°-180°	95.2	2.0
0°-30°	504.2	10.7
0°-40°	809.9	17.3
0°-60°	1315.6	28.0
0°-90°	1594.7	34.0
90°-120°	670.9	14.3
90°-150°	2300.6	49.0
90°-180°	3100.0	66.0
0°-180°	4694.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	577	577	577	577	577	
5°	677	576	509	576	677	69
15°	930	551	408	551	930	263
25°	987	503	331	503	987	435
35°	584	437	294	437	584	370
45°	327	349	262	349	327	258
55°	214	246	229	246	214	193
65°	138	153	183	153	138	136
75°	69	74	113	74	69	73
85°	14	15	35	15	14	18
90°	22	2	22	2	22	10
95°	22	41	22	41	22	17
105°	214	226	214	226	214	186
115°	424	421	424	421	424	420
125°	597	592	597	592	597	531
135°	740	735	740	735	740	569
145°	852	847	852	847	852	532
155°	928	929	928	929	928	428
165°	975	980	975	980	975	275
175°	996	1002	996	1002	996	95
180°	1002	1002	1002	1002	1002	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	614.0	613.9	612.0	611.6	610.3	608.5	608.1	605.0	599.0	596.0	595.3
5°	676.8	681.7	675.4	674.2	673.5	665.6	661.6	656.8	645.8	639.3	634.3
7.5°	751.8	752.3	749.6	747.5	741.3	734.5	724.2	713.2	700.0	686.5	676.2
10°	801.1	803.0	799.9	799.5	787.3	779.6	764.4	751.4	736.6	720.1	705.1
12.5°	853.1	850.5	848.9	838.7	836.4	822.4	804.7	791.4	768.5	749.5	729.5
15°	929.7	924.4	921.1	907.1	900.1	880.7	861.8	847.3	817.4	788.9	767.4
17.5°	974.6	979.9	972.2	966.3	948.5	934.8	915.5	884.9	861.6	826.3	799.1
20°	1007.1	1007.6	1003.3	997.3	983.3	966.0	945.0	911.6	883.6	848.5	811.1
22.5°	1015.9	1016.0	1014.2	1008.7	997.9	984.0	962.8	934.8	901.0	862.8	825.5
25°	987.0	986.1	988.3	994.5	990.5	986.1	973.9	953.1	921.6	881.2	841.0
27.5°	879.8	886.5	898.6	913.8	928.6	939.8	942.9	938.7	919.2	886.0	843.8
30°	802.5	810.7	819.8	835.1	864.7	881.7	900.3	914.4	906.6	880.0	840.8
32.5°	717.7	719.7	733.2	750.5	777.7	810.3	839.9	868.6	878.1	864.1	831.4
35°	583.6	587.0	601.6	618.7	652.0	692.0	736.4	776.1	808.8	821.9	805.2
37.5°	476.3	485.8	496.1	514.6	543.9	579.9	626.0	677.4	726.2	758.9	764.5
40°	425.5	431.4	438.8	452.9	477.8	513.1	552.8	611.6	663.5	710.3	725.6
42.5°	385.3	388.8	393.3	406.1	425.0	460.2	496.4	548.2	600.2	656.2	681.9
45°	327.4	331.0	338.7	346.1	360.4	384.8	418.5	461.0	513.4	567.3	614.7
47.5°	285.7	287.9	292.5	300.4	312.7	328.7	356.1	391.6	440.1	492.6	543.0
50°	262.0	263.9	267.4	274.6	284.0	298.3	320.7	354.0	391.9	444.7	494.2
52.5°	243.2	244.0	246.6	251.5	258.9	270.9	289.4	316.9	352.2	399.3	448.6
55°	214.2	215.1	217.5	221.1	227.5	235.2	249.2	269.8	300.6	341.5	384.4
57.5°	190.3	191.0	192.9	194.3	199.7	205.8	216.7	231.4	254.7	289.4	327.6
60°	174.9	174.5	176.8	178.0	181.7	186.9	195.3	209.3	229.6	257.6	292.8
62.5°	160.1	159.4	161.4	163.0	165.0	169.5	176.3	187.3	203.9	229.1	259.5
65°	137.6	136.7	137.9	139.9	141.7	144.1	149.2	159.0	172.1	190.3	213.4
67.5°	115.2	116.2	116.4	117.3	118.5	121.7	125.1	132.1	141.4	155.9	175.5
70°	101.8	102.1	103.0	103.0	103.7	106.6	109.5	113.5	122.6	136.0	152.0
72.5°	88.5	89.5	89.1	89.8	90.4	92.3	94.3	98.3	105.9	115.9	129.5
75°	68.9	69.6	69.6	69.8	70.5	71.2	72.9	75.7	81.3	88.7	98.0
77.5°	50.2	50.3	50.6	51.5	51.5	52.6	53.8	56.1	58.9	63.9	69.7
80°	38.7	39.2	39.0	39.5	39.5	40.4	40.9	43.7	44.9	48.3	52.8
82.5°	28.4	28.9	28.8	29.5	29.9	30.1	30.7	31.9	33.1	36.1	37.9
85°	14.3	14.8	14.3	14.8	15.6	15.8	16.5	16.8	17.7	18.4	20.1
87.5°	8.7	9.2	9.2	9.3	9.6	9.6	9.6	9.3	9.8	9.8	10.3
90°	22.5	22.1	21.8	21.5	21.1	20.5	19.5	18.5	17.5	16.5	15.1
92.5°	20.7	20.6	20.6	20.5	20.4	19.9	18.9	17.9	16.9	15.9	14.5
95°	21.7	21.6	21.4	21.2	21.1	20.5	19.5	18.5	17.5	16.5	16.4
97.5°	21.0	20.8	20.7	20.5	20.3	20.2	20.1	20.0	19.9	19.8	38.4
100°	21.0	20.8	20.7	20.5	20.3	21.6	24.4	27.4	30.2	33.0	55.9
102.5°	21.6	21.5	21.5	21.5	21.4	36.8	67.3	97.9	128.4	159.0	161.9
105°	213.7	219.6	225.6	231.7	237.6	239.8	238.3	236.9	235.4	233.9	233.1
107.5°	297.7	297.1	296.5	295.9	295.2	294.6	293.8	293.1	292.4	291.5	290.4
110°	334.4	333.9	333.4	332.9	332.3	331.9	331.5	331.2	330.9	330.5	329.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	370.9	370.3	369.6	369.0	368.4	368.1	368.2	368.2	368.3	368.4	367.9
115°	424.2	424.2	424.2	424.2	424.2	424.1	423.7	423.4	423.1	422.7	422.9
117.5°	478.6	478.6	478.7	478.8	478.8	478.9	479.0	479.0	479.1	479.2	478.8
120°	512.7	513.1	513.4	513.7	514.0	514.0	513.7	513.4	513.1	512.7	512.9
122.5°	546.3	546.6	546.9	547.3	547.6	547.8	547.5	547.3	547.1	546.9	546.6
125°	596.7	596.5	596.3	596.2	596.0	595.7	595.2	594.7	594.2	593.7	594.0
127.5°	641.0	641.1	641.2	641.4	641.5	641.6	641.7	641.8	641.9	642.0	641.2
130°	670.9	670.9	670.9	670.9	670.9	670.9	670.7	670.4	670.3	670.1	669.6
132.5°	698.5	698.6	698.7	698.9	699.0	699.0	698.8	698.6	698.5	698.3	697.7
135°	739.8	739.5	739.2	738.8	738.5	738.2	737.9	737.5	737.2	736.9	736.2
137.5°	775.3	775.4	775.5	775.6	775.7	775.5	775.2	774.8	774.4	774.1	773.4
140°	799.8	799.7	799.5	799.3	799.2	798.8	798.3	797.8	797.3	796.9	796.5
142.5°	820.2	820.2	820.1	820.1	820.1	819.9	819.5	819.2	818.8	818.4	818.2
145°	851.5	851.2	850.9	850.5	850.2	850.0	849.8	849.6	849.5	849.3	849.3
147.5°	877.5	877.4	877.2	877.0	876.9	876.7	876.6	876.4	876.3	876.2	876.3
150°	894.2	894.1	893.9	893.8	893.6	893.5	893.5	893.5	893.5	893.5	893.7
152.5°	908.7	908.8	908.9	909.0	909.1	909.0	908.7	908.5	908.2	908.0	908.3
155°	928.1	928.5	929.0	929.5	930.0	929.9	929.3	928.6	928.0	927.3	927.8
157.5°	944.2	945.0	945.9	946.8	947.7	947.7	946.8	945.9	945.0	944.2	944.7
160°	955.0	956.0	957.0	958.0	959.0	959.0	958.0	957.0	956.0	955.0	955.1
162.5°	963.4	964.5	965.6	966.8	968.0	968.0	966.9	966.0	965.0	964.0	964.1
165°	975.2	976.7	978.3	979.8	981.3	981.3	980.0	978.7	977.3	976.0	976.0
167.5°	984.1	985.7	987.4	989.1	990.8	990.9	989.4	988.0	986.4	985.0	985.1
170°	989.5	991.2	992.8	994.5	996.1	996.3	995.0	993.6	992.3	991.0	990.8
172.5°	992.5	994.3	996.1	997.8	999.7	999.9	998.6	997.2	995.9	994.6	994.4
175°	996.2	998.3	1000.3	1002.2	1004.2	1004.5	1003.0	1001.5	1000.0	998.5	998.4
177.5°	998.7	1000.3	1001.8	1003.4	1005.0	1005.3	1004.2	1003.2	1002.1	1001.0	1000.8
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	595.5	592.8	590.9	589.4	585.2	582.7	580.8	578.1	575.0	571.8	567.7
5°	629.2	621.2	615.2	606.1	597.5	590.4	582.9	576.2	568.2	559.3	552.8
7.5°	664.8	652.7	637.2	623.8	608.6	595.5	583.8	571.8	559.3	547.0	535.9
10°	687.4	671.9	654.6	634.3	615.2	598.2	582.5	567.1	552.3	537.6	524.8
12.5°	711.7	692.3	666.8	643.1	621.7	599.0	580.0	561.2	543.3	527.8	513.0
15°	744.3	716.3	686.9	655.1	626.9	600.4	574.3	550.7	530.6	510.0	495.6
17.5°	764.3	729.6	696.1	662.9	628.7	595.2	567.1	539.9	514.7	494.3	476.3
20°	777.5	743.1	701.3	668.0	627.4	593.0	560.5	530.1	503.8	482.1	463.4
22.5°	788.9	749.2	707.3	663.6	623.2	586.6	551.1	520.6	493.7	470.8	452.9
25°	795.2	749.5	704.1	660.6	614.7	571.5	539.2	503.3	474.6	450.5	431.4
27.5°	795.9	747.0	695.6	647.3	600.0	559.7	519.0	486.9	457.2	431.6	413.2
30°	793.8	742.9	687.6	635.3	587.7	544.0	508.6	473.7	443.3	418.0	398.9
32.5°	787.0	734.1	677.3	621.9	572.6	529.8	493.3	460.1	430.5	405.6	385.5
35°	767.7	715.3	654.9	597.2	546.8	503.6	470.6	436.9	407.3	383.6	364.3
37.5°	737.4	690.1	628.6	569.1	519.5	476.1	443.3	412.9	386.2	362.1	342.3
40°	711.0	669.4	607.7	549.7	496.1	454.8	424.2	396.3	369.7	347.0	328.1
42.5°	680.6	644.4	587.5	526.0	474.3	432.8	403.0	377.9	352.9	331.9	313.1
45°	626.4	602.5	549.0	492.1	438.3	399.1	370.7	348.7	327.7	307.1	291.3
47.5°	564.1	552.2	507.2	453.1	402.1	363.5	338.8	318.5	300.0	282.7	268.7
50°	522.2	516.4	477.6	425.5	376.7	340.3	315.5	298.0	282.3	267.0	253.8
52.5°	480.9	480.7	445.6	397.9	352.7	317.8	293.1	276.8	263.2	250.7	238.9
55°	417.8	424.4	397.0	354.5	314.1	282.5	260.2	245.7	236.1	225.9	217.0
57.5°	359.8	370.9	348.2	310.7	277.0	248.0	228.6	217.7	207.5	201.3	194.8
60°	321.9	332.4	314.8	283.3	251.5	226.6	208.1	198.3	189.6	185.2	180.7
62.5°	288.3	297.6	284.6	255.3	227.7	203.8	188.2	178.8	172.9	168.2	165.2
65°	240.2	248.1	236.8	215.6	191.9	172.8	160.2	152.7	147.0	145.1	141.7
67.5°	194.2	201.4	195.3	177.2	158.2	143.7	133.8	126.7	123.3	121.7	119.3
70°	166.8	174.0	167.5	151.8	137.1	125.0	115.6	111.6	108.1	107.3	104.0
72.5°	143.7	148.6	142.1	129.8	117.3	107.0	99.8	95.5	93.7	92.4	90.6
75°	107.8	112.1	107.8	98.3	89.4	82.2	76.0	74.3	72.2	71.5	70.3
77.5°	76.2	80.0	76.7	70.8	64.1	58.6	55.2	53.1	52.6	51.4	52.0
80°	58.3	60.7	57.6	53.5	48.3	44.4	42.1	40.9	39.5	39.0	39.9
82.5°	41.9	42.9	41.3	38.6	34.7	32.2	30.6	29.2	28.9	29.0	29.0
85°	21.7	21.5	21.3	18.9	17.7	16.1	15.0	14.8	14.5	15.0	15.6
87.5°	10.0	10.0	9.5	8.4	7.5	6.6	6.0	5.5	6.0	6.6	7.1
90°	13.8	12.5	11.2	9.6	7.8	6.0	4.0	2.2	4.0	6.0	7.8
92.5°	13.2	11.9	10.6	9.8	9.7	9.7	9.6	9.5	9.6	9.7	9.7
95°	16.2	16.0	15.9	18.6	24.2	29.9	35.5	41.2	35.5	29.9	24.2
97.5°	57.0	75.5	94.1	101.7	98.2	94.6	91.1	87.6	91.1	94.6	98.2
100°	79.0	102.0	124.9	134.9	131.9	129.0	125.9	122.9	125.9	129.0	131.9
102.5°	164.9	167.9	170.9	171.3	169.2	166.9	164.7	162.5	164.7	166.9	169.2
105°	232.2	231.4	230.6	229.6	228.6	227.6	226.6	225.6	226.6	227.6	228.6
107.5°	289.3	288.2	287.1	286.3	285.8	285.3	284.8	284.3	284.8	285.3	285.8
110°	328.6	327.6	326.6	325.8	325.4	324.9	324.4	323.9	324.4	324.9	325.4





TEST NUMBER: P332721-840

CATALOG NUMBER: S124DIW-S350D770U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	367.4	367.0	366.5	365.8	364.9	364.1	363.1	362.2	363.1	364.1	364.9
115°	423.1	423.2	423.4	423.2	422.7	422.3	421.8	421.3	421.8	422.3	422.7
117.5°	478.4	478.1	477.7	477.2	476.5	475.8	475.1	474.5	475.1	475.8	476.5
120°	513.1	513.2	513.4	513.1	512.5	511.8	511.2	510.5	511.2	511.8	512.5
122.5°	546.4	546.2	545.9	545.6	545.2	544.8	544.4	544.1	544.4	544.8	545.2
125°	594.4	594.7	595.0	594.8	594.2	593.5	592.9	592.2	592.9	593.5	594.2
127.5°	640.5	639.6	638.9	638.4	638.2	638.1	637.9	637.7	637.9	638.1	638.2
130°	669.1	668.6	668.1	667.8	667.6	667.5	667.3	667.1	667.3	667.5	667.6
132.5°	697.1	696.4	695.8	695.3	695.0	694.8	694.5	694.2	694.5	694.8	695.0
135°	735.5	734.9	734.2	734.0	734.1	734.3	734.5	734.6	734.5	734.3	734.1
137.5°	772.5	771.8	771.1	770.7	770.6	770.6	770.5	770.4	770.5	770.6	770.6
140°	796.2	795.9	795.5	795.2	794.9	794.5	794.2	793.9	794.2	794.5	794.9
142.5°	818.0	817.8	817.6	817.2	816.6	816.1	815.5	814.9	815.5	816.1	816.6
145°	849.3	849.3	849.3	849.1	848.6	848.1	847.6	847.1	847.6	848.1	848.6
147.5°	876.5	876.7	876.8	876.5	875.5	874.5	873.6	872.7	873.6	874.5	875.5
150°	893.8	894.0	894.2	893.9	893.3	892.6	891.9	891.3	891.9	892.6	893.3
152.5°	908.6	908.8	909.1	909.0	908.5	908.0	907.4	906.9	907.4	908.0	908.5
155°	928.3	928.8	929.3	929.5	929.3	929.1	929.0	928.8	929.0	929.1	929.3
157.5°	945.3	945.9	946.4	946.8	947.0	947.1	947.2	947.3	947.2	947.1	947.0
160°	955.3	955.5	955.6	956.0	956.5	957.0	957.5	958.0	957.5	957.0	956.5
162.5°	964.3	964.5	964.6	965.0	965.7	966.3	966.9	967.6	966.9	966.3	965.7
165°	976.0	976.0	976.0	976.4	977.2	978.1	978.9	979.8	978.9	978.1	977.2
167.5°	985.2	985.3	985.4	985.8	986.7	987.6	988.5	989.4	988.5	987.6	986.7
170°	990.7	990.5	990.3	990.8	991.7	992.7	993.7	994.7	993.7	992.7	991.7
172.5°	994.2	994.1	993.9	994.3	995.3	996.3	997.3	998.4	997.3	996.3	995.3
175°	998.2	997.9	997.8	998.3	999.3	1000.3	1001.2	1002.2	1001.2	1000.3	999.3
177.5°	1000.5	1000.3	1000.0	1000.3	1001.2	1002.2	1003.1	1004.0	1003.1	1002.2	1001.2
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2



TEST NUMBER: P332721-840

CATALOG NUMBER: S124DIW-S350D770U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	565.8	564.1	561.7	558.3	555.3	552.3	551.5	550.4	552.7	550.8	550.2
5°	547.3	542.3	535.8	528.5	524.1	518.0	516.7	514.3	511.9	511.7	509.3
7.5°	527.7	520.3	511.8	504.3	497.4	490.5	486.0	485.1	481.6	479.5	477.2
10°	515.0	505.9	496.1	489.0	480.9	473.7	468.7	465.9	463.4	460.8	458.4
12.5°	500.2	490.5	482.4	474.6	465.0	459.6	451.3	446.4	445.9	445.9	439.7
15°	482.8	473.2	460.8	449.8	444.5	434.0	429.5	423.7	420.2	416.6	413.7
17.5°	462.9	451.0	441.3	428.7	418.7	410.3	404.3	400.9	395.5	390.4	386.8
20°	450.5	437.9	427.6	414.1	403.2	392.9	387.9	383.1	379.1	374.8	370.7
22.5°	437.9	424.6	412.1	399.1	388.9	378.0	373.1	366.7	362.8	360.4	356.4
25°	418.0	403.6	389.3	376.9	366.4	356.8	350.4	345.4	341.0	339.1	336.5
27.5°	396.4	382.1	368.3	354.2	342.2	335.3	330.1	326.4	323.9	321.3	320.1
30°	382.6	367.8	353.0	339.8	328.9	321.9	317.2	314.6	312.7	311.4	310.2
32.5°	368.7	354.1	338.5	326.5	316.6	310.4	306.8	304.2	303.3	302.9	302.4
35°	346.3	331.5	317.2	306.4	297.1	294.7	291.5	290.1	289.6	291.3	292.1
37.5°	324.7	310.9	297.7	287.3	281.1	277.7	276.6	276.7	278.4	279.8	281.6
40°	310.7	297.3	284.9	275.8	270.0	267.9	267.4	268.6	270.5	272.3	274.2
42.5°	297.1	284.0	272.7	264.2	260.1	258.1	258.4	259.6	262.4	264.4	267.2
45°	276.1	265.1	254.1	247.1	243.8	244.3	244.3	246.4	249.0	252.2	255.3
47.5°	256.2	245.1	236.1	230.2	228.5	228.1	229.4	232.3	236.0	239.8	244.2
50°	242.9	232.3	224.4	219.1	217.2	217.9	219.8	222.5	227.0	231.9	236.4
52.5°	229.2	219.6	212.4	207.5	206.1	207.4	209.3	213.5	217.5	222.7	228.1
55°	208.1	200.1	194.3	190.8	190.3	191.0	193.1	197.6	203.4	209.8	215.1
57.5°	187.2	180.4	175.1	172.7	172.9	173.6	177.1	182.5	188.6	195.5	202.3
60°	173.0	166.8	162.5	160.6	160.9	162.3	166.6	171.6	179.3	185.9	193.1
62.5°	159.7	154.2	150.1	148.3	148.0	151.2	155.3	160.5	168.1	175.6	183.4
65°	138.1	133.8	130.5	129.6	130.3	132.7	137.9	144.8	151.3	159.2	167.3
67.5°	117.1	113.6	111.3	111.7	112.6	116.1	120.5	126.4	133.8	142.0	150.0
70°	103.7	100.4	98.5	98.7	100.2	104.4	108.3	114.2	122.1	130.5	137.1
72.5°	90.0	87.8	86.0	87.1	88.5	91.4	96.2	102.2	109.2	116.9	124.0
75°	69.1	69.1	68.2	68.9	71.0	73.8	77.5	83.6	90.6	96.8	102.5
77.5°	51.2	50.7	51.3	52.2	53.4	56.9	61.0	65.4	70.6	76.9	81.6
80°	39.2	39.5	40.6	42.1	42.5	45.1	49.5	53.5	57.6	62.8	67.4
82.5°	29.5	29.7	30.3	32.1	32.6	35.4	38.2	42.2	45.9	49.5	53.2
85°	16.1	16.1	17.2	18.0	19.1	21.0	22.7	25.1	28.5	30.8	34.4
87.5°	8.1	8.4	9.4	10.0	10.9	12.1	12.7	14.9	16.0	17.1	19.0
90°	9.6	11.2	12.5	13.8	15.1	16.5	17.5	18.5	19.5	20.5	21.1
92.5°	9.8	10.6	11.9	13.2	14.5	15.9	16.9	17.9	18.9	19.9	20.4
95°	18.6	15.9	16.0	16.2	16.4	16.5	17.5	18.5	19.5	20.5	21.1
97.5°	101.7	94.1	75.5	57.0	38.4	19.8	19.9	20.0	20.1	20.2	20.3
100°	134.9	124.9	102.0	79.0	55.9	33.0	30.2	27.4	24.4	21.6	20.3
102.5°	171.3	170.9	167.9	164.9	161.9	159.0	128.4	97.9	67.3	36.8	21.4
105°	229.6	230.6	231.4	232.2	233.1	233.9	235.4	236.9	238.3	239.8	237.6
107.5°	286.3	287.1	288.2	289.3	290.4	291.5	292.4	293.1	293.8	294.6	295.2
110°	325.8	326.6	327.6	328.6	329.6	330.5	330.9	331.2	331.5	331.9	332.3



TEST NUMBER: P332721-840

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	365.8	366.5	367.0	367.4	367.9	368.4	368.3	368.2	368.2	368.1	368.4
115°	423.2	423.4	423.2	423.1	422.9	422.7	423.1	423.4	423.7	424.1	424.2
117.5°	477.2	477.7	478.1	478.4	478.8	479.2	479.1	479.0	479.0	478.9	478.8
120°	513.1	513.4	513.2	513.1	512.9	512.7	513.1	513.4	513.7	514.0	514.0
122.5°	545.6	545.9	546.2	546.4	546.6	546.9	547.1	547.3	547.5	547.8	547.6
125°	594.8	595.0	594.7	594.4	594.0	593.7	594.2	594.7	595.2	595.7	596.0
127.5°	638.4	638.9	639.6	640.5	641.2	642.0	641.9	641.8	641.7	641.6	641.5
130°	667.8	668.1	668.6	669.1	669.6	670.1	670.3	670.4	670.7	670.9	670.9
132.5°	695.3	695.8	696.4	697.1	697.7	698.3	698.5	698.6	698.8	699.0	699.0
135°	734.0	734.2	734.9	735.5	736.2	736.9	737.2	737.5	737.9	738.2	738.5
137.5°	770.7	771.1	771.8	772.5	773.4	774.1	774.4	774.8	775.2	775.5	775.7
140°	795.2	795.5	795.9	796.2	796.5	796.9	797.3	797.8	798.3	798.8	799.2
142.5°	817.2	817.6	817.8	818.0	818.2	818.4	818.8	819.2	819.5	819.9	820.1
145°	849.1	849.3	849.3	849.3	849.3	849.3	849.5	849.6	849.8	850.0	850.2
147.5°	876.5	876.8	876.7	876.5	876.3	876.2	876.3	876.4	876.6	876.7	876.9
150°	893.9	894.2	894.0	893.8	893.7	893.5	893.5	893.5	893.5	893.5	893.6
152.5°	909.0	909.1	908.8	908.6	908.3	908.0	908.2	908.5	908.7	909.0	909.1
155°	929.5	929.3	928.8	928.3	927.8	927.3	928.0	928.6	929.3	929.9	930.0
157.5°	946.8	946.4	945.9	945.3	944.7	944.2	945.0	945.9	946.8	947.7	947.7
160°	956.0	955.6	955.5	955.3	955.1	955.0	956.0	957.0	958.0	959.0	959.0
162.5°	965.0	964.6	964.5	964.3	964.1	964.0	965.0	966.0	966.9	968.0	968.0
165°	976.4	976.0	976.0	976.0	976.0	976.0	977.3	978.7	980.0	981.3	981.3
167.5°	985.8	985.4	985.3	985.2	985.1	985.0	986.4	988.0	989.4	990.9	990.8
170°	990.8	990.3	990.5	990.7	990.8	991.0	992.3	993.6	995.0	996.3	996.1
172.5°	994.3	993.9	994.1	994.2	994.4	994.6	995.9	997.2	998.6	999.9	999.7
175°	998.3	997.8	997.9	998.2	998.4	998.5	1000.0	1001.5	1003.0	1004.5	1004.2
177.5°	1000.3	1000.0	1000.3	1000.5	1000.8	1001.0	1002.1	1003.2	1004.2	1005.3	1005.0
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2



TEST NUMBER: P332721-840

CATALOG NUMBER: S124DIW-S350D770U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	549.8	549.5	548.1	547.9	548.1	549.5	549.8	550.2	550.8	552.7	550.4
5°	507.9	506.6	505.9	508.6	505.9	506.6	507.9	509.3	511.7	511.9	514.3
7.5°	476.3	475.3	473.2	472.5	473.2	475.3	476.3	477.2	479.5	481.6	485.1
10°	456.1	455.0	453.1	452.6	453.1	455.0	456.1	458.4	460.8	463.4	465.9
12.5°	436.5	434.6	434.2	434.7	434.2	434.6	436.5	439.7	445.9	445.9	446.4
15°	410.6	409.6	407.0	407.8	407.0	409.6	410.6	413.7	416.6	420.2	423.7
17.5°	385.1	384.0	380.7	383.5	380.7	384.0	385.1	386.8	390.4	395.5	400.9
20°	369.0	367.1	365.5	365.2	365.5	367.1	369.0	370.7	374.8	379.1	383.1
22.5°	353.8	352.0	351.8	350.3	351.8	352.0	353.8	356.4	360.4	362.8	366.7
25°	334.6	333.0	332.4	331.2	332.4	333.0	334.6	336.5	339.1	341.0	345.4
27.5°	319.9	319.1	318.2	318.6	318.2	319.1	319.9	320.1	321.3	323.9	326.4
30°	310.9	310.7	310.2	310.2	310.2	310.7	310.9	310.2	311.4	312.7	314.6
32.5°	303.5	303.5	303.8	303.8	303.8	303.5	303.5	302.4	302.9	303.3	304.2
35°	293.1	293.8	294.2	293.5	294.2	293.8	293.1	292.1	291.3	289.6	290.1
37.5°	283.6	284.3	285.0	285.8	285.0	284.3	283.6	281.6	279.8	278.4	276.7
40°	276.3	277.9	278.4	279.6	278.4	277.9	276.3	274.2	272.3	270.5	268.6
42.5°	269.4	271.2	272.5	272.8	272.5	271.2	269.4	267.2	264.4	262.4	259.6
45°	258.8	260.7	262.5	262.5	262.5	260.7	258.8	255.3	252.2	249.0	246.4
47.5°	247.9	250.6	252.4	252.8	252.4	250.6	247.9	244.2	239.8	236.0	232.3
50°	240.4	243.8	245.5	246.6	245.5	243.8	240.4	236.4	231.9	227.0	222.5
52.5°	233.2	236.5	238.7	239.3	238.7	236.5	233.2	228.1	222.7	217.5	213.5
55°	220.6	225.4	228.0	228.9	228.0	225.4	220.6	215.1	209.8	203.4	197.6
57.5°	208.7	213.2	216.2	216.9	216.2	213.2	208.7	202.3	195.5	188.6	182.5
60°	199.5	204.4	208.1	208.8	208.1	204.4	199.5	193.1	185.9	179.3	171.6
62.5°	190.2	195.2	198.6	200.5	198.6	195.2	190.2	183.4	175.6	168.1	160.5
65°	174.0	179.0	182.4	183.1	182.4	179.0	174.0	167.3	159.2	151.3	144.8
67.5°	156.3	161.4	163.5	164.9	163.5	161.4	156.3	150.0	142.0	133.8	126.4
70°	143.9	147.9	150.4	151.5	150.4	147.9	143.9	137.1	130.5	122.1	114.2
72.5°	129.8	134.0	136.7	137.0	136.7	134.0	129.8	124.0	116.9	109.2	102.2
75°	108.1	111.9	113.3	113.3	113.3	111.9	108.1	102.5	96.8	90.6	83.6
77.5°	85.5	87.5	89.3	89.7	89.3	87.5	85.5	81.6	76.9	70.6	65.4
80°	71.0	72.2	73.6	73.6	73.6	72.2	71.0	67.4	62.8	57.6	53.5
82.5°	56.0	57.1	58.5	58.3	58.5	57.1	56.0	53.2	49.5	45.9	42.2
85°	33.9	36.1	35.9	35.3	35.9	36.1	33.9	34.4	30.8	28.5	25.1
87.5°	19.6	19.9	20.5	20.9	20.5	19.9	19.6	19.0	17.1	16.0	14.9
90°	21.5	21.8	22.1	22.5	22.1	21.8	21.5	21.1	20.5	19.5	18.5
92.5°	20.5	20.6	20.6	20.7	20.6	20.6	20.5	20.4	19.9	18.9	17.9
95°	21.2	21.4	21.6	21.7	21.6	21.4	21.2	21.1	20.5	19.5	18.5
97.5°	20.5	20.7	20.8	21.0	20.8	20.7	20.5	20.3	20.2	20.1	20.0
100°	20.5	20.7	20.8	21.0	20.8	20.7	20.5	20.3	21.6	24.4	27.4
102.5°	21.5	21.5	21.5	21.6	21.5	21.5	21.5	21.4	36.8	67.3	97.9
105°	231.7	225.6	219.6	213.7	219.6	225.6	231.7	237.6	239.8	238.3	236.9
107.5°	295.9	296.5	297.1	297.7	297.1	296.5	295.9	295.2	294.6	293.8	293.1
110°	332.9	333.4	333.9	334.4	333.9	333.4	332.9	332.3	331.9	331.5	331.2



TEST NUMBER: P332721-840

CATALOG NUMBER: S124DIW-S350D770U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	369.0	369.6	370.3	370.9	370.3	369.6	369.0	368.4	368.1	368.2	368.2
115°	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.1	423.7	423.4
117.5°	478.8	478.7	478.6	478.6	478.6	478.7	478.8	478.8	478.9	479.0	479.0
120°	513.7	513.4	513.1	512.7	513.1	513.4	513.7	514.0	514.0	513.7	513.4
122.5°	547.3	546.9	546.6	546.3	546.6	546.9	547.3	547.6	547.8	547.5	547.3
125°	596.2	596.3	596.5	596.7	596.5	596.3	596.2	596.0	595.7	595.2	594.7
127.5°	641.4	641.2	641.1	641.0	641.1	641.2	641.4	641.5	641.6	641.7	641.8
130°	670.9	670.9	670.9	670.9	670.9	670.9	670.9	670.9	670.9	670.7	670.4
132.5°	698.9	698.7	698.6	698.5	698.6	698.7	698.9	699.0	699.0	698.8	698.6
135°	738.8	739.2	739.5	739.8	739.5	739.2	738.8	738.5	738.2	737.9	737.5
137.5°	775.6	775.5	775.4	775.3	775.4	775.5	775.6	775.7	775.5	775.2	774.8
140°	799.3	799.5	799.7	799.8	799.7	799.5	799.3	799.2	798.8	798.3	797.8
142.5°	820.1	820.1	820.2	820.2	820.2	820.1	820.1	820.1	819.9	819.5	819.2
145°	850.5	850.9	851.2	851.5	851.2	850.9	850.5	850.2	850.0	849.8	849.6
147.5°	877.0	877.2	877.4	877.5	877.4	877.2	877.0	876.9	876.7	876.6	876.4
150°	893.8	893.9	894.1	894.2	894.1	893.9	893.8	893.6	893.5	893.5	893.5
152.5°	909.0	908.9	908.8	908.7	908.8	908.9	909.0	909.1	909.0	908.7	908.5
155°	929.5	929.0	928.5	928.1	928.5	929.0	929.5	930.0	929.9	929.3	928.6
157.5°	946.8	945.9	945.0	944.2	945.0	945.9	946.8	947.7	947.7	946.8	945.9
160°	958.0	957.0	956.0	955.0	956.0	957.0	958.0	959.0	959.0	958.0	957.0
162.5°	966.8	965.6	964.5	963.4	964.5	965.6	966.8	968.0	968.0	966.9	966.0
165°	979.8	978.3	976.7	975.2	976.7	978.3	979.8	981.3	981.3	980.0	978.7
167.5°	989.1	987.4	985.7	984.1	985.7	987.4	989.1	990.8	990.9	989.4	988.0
170°	994.5	992.8	991.2	989.5	991.2	992.8	994.5	996.1	996.3	995.0	993.6
172.5°	997.8	996.1	994.3	992.5	994.3	996.1	997.8	999.7	999.9	998.6	997.2
175°	1002.2	1000.3	998.3	996.2	998.3	1000.3	1002.2	1004.2	1004.5	1003.0	1001.5
177.5°	1003.4	1001.8	1000.3	998.7	1000.3	1001.8	1003.4	1005.0	1005.3	1004.2	1003.2
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2



TEST NUMBER: P332721-840

CATALOG NUMBER: S124DIW-S350D770U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	551.5	552.3	555.3	558.3	561.7	564.1	565.8	567.7	571.8	575.0	578.1
5°	516.7	518.0	524.1	528.5	535.8	542.3	547.3	552.8	559.3	568.2	576.2
7.5°	486.0	490.5	497.4	504.3	511.8	520.3	527.7	535.9	547.0	559.3	571.8
10°	468.7	473.7	480.9	489.0	496.1	505.9	515.0	524.8	537.6	552.3	567.1
12.5°	451.3	459.6	465.0	474.6	482.4	490.5	500.2	513.0	527.8	543.3	561.2
15°	429.5	434.0	444.5	449.8	460.8	473.2	482.8	495.6	510.0	530.6	550.7
17.5°	404.3	410.3	418.7	428.7	441.3	451.0	462.9	476.3	494.3	514.7	539.9
20°	387.9	392.9	403.2	414.1	427.6	437.9	450.5	463.4	482.1	503.8	530.1
22.5°	373.1	378.0	388.9	399.1	412.1	424.6	437.9	452.9	470.8	493.7	520.6
25°	350.4	356.8	366.4	376.9	389.3	403.6	418.0	431.4	450.5	474.6	503.3
27.5°	330.1	335.3	342.2	354.2	368.3	382.1	396.4	413.2	431.6	457.2	486.9
30°	317.2	321.9	328.9	339.8	353.0	367.8	382.6	398.9	418.0	443.3	473.7
32.5°	306.8	310.4	316.6	326.5	338.5	354.1	368.7	385.5	405.6	430.5	460.1
35°	291.5	294.7	297.1	306.4	317.2	331.5	346.3	364.3	383.6	407.3	436.9
37.5°	276.6	277.7	281.1	287.3	297.7	310.9	324.7	342.3	362.1	386.2	412.9
40°	267.4	267.9	270.0	275.8	284.9	297.3	310.7	328.1	347.0	369.7	396.3
42.5°	258.4	258.1	260.1	264.2	272.7	284.0	297.1	313.1	331.9	352.9	377.9
45°	244.3	244.3	243.8	247.1	254.1	265.1	276.1	291.3	307.1	327.7	348.7
47.5°	229.4	228.1	228.5	230.2	236.1	245.1	256.2	268.7	282.7	300.0	318.5
50°	219.8	217.9	217.2	219.1	224.4	232.3	242.9	253.8	267.0	282.3	298.0
52.5°	209.3	207.4	206.1	207.5	212.4	219.6	229.2	238.9	250.7	263.2	276.8
55°	193.1	191.0	190.3	190.8	194.3	200.1	208.1	217.0	225.9	236.1	245.7
57.5°	177.1	173.6	172.9	172.7	175.1	180.4	187.2	194.8	201.3	207.5	217.7
60°	166.6	162.3	160.9	160.6	162.5	166.8	173.0	180.7	185.2	189.6	198.3
62.5°	155.3	151.2	148.0	148.3	150.1	154.2	159.7	165.2	168.2	172.9	178.8
65°	137.9	132.7	130.3	129.6	130.5	133.8	138.1	141.7	145.1	147.0	152.7
67.5°	120.5	116.1	112.6	111.7	111.3	113.6	117.1	119.3	121.7	123.3	126.7
70°	108.3	104.4	100.2	98.7	98.5	100.4	103.7	104.0	107.3	108.1	111.6
72.5°	96.2	91.4	88.5	87.1	86.0	87.8	90.0	90.6	92.4	93.7	95.5
75°	77.5	73.8	71.0	68.9	68.2	69.1	69.1	70.3	71.5	72.2	74.3
77.5°	61.0	56.9	53.4	52.2	51.3	50.7	51.2	52.0	51.4	52.6	53.1
80°	49.5	45.1	42.5	42.1	40.6	39.5	39.2	39.9	39.0	39.5	40.9
82.5°	38.2	35.4	32.6	32.1	30.3	29.7	29.5	29.0	29.0	28.9	29.2
85°	22.7	21.0	19.1	18.0	17.2	16.1	16.1	15.6	15.0	14.5	14.8
87.5°	12.7	12.1	10.9	10.0	9.4	8.4	8.1	7.1	6.6	6.0	5.5
90°	17.5	16.5	15.1	13.8	12.5	11.2	9.6	7.8	6.0	4.0	2.2
92.5°	16.9	15.9	14.5	13.2	11.9	10.6	9.8	9.7	9.7	9.6	9.5
95°	17.5	16.5	16.4	16.2	16.0	15.9	18.6	24.2	29.9	35.5	41.2
97.5°	19.9	19.8	38.4	57.0	75.5	94.1	101.7	98.2	94.6	91.1	87.6
100°	30.2	33.0	55.9	79.0	102.0	124.9	134.9	131.9	129.0	125.9	122.9
102.5°	128.4	159.0	161.9	164.9	167.9	170.9	171.3	169.2	166.9	164.7	162.5
105°	235.4	233.9	233.1	232.2	231.4	230.6	229.6	228.6	227.6	226.6	225.6
107.5°	292.4	291.5	290.4	289.3	288.2	287.1	286.3	285.8	285.3	284.8	284.3
110°	330.9	330.5	329.6	328.6	327.6	326.6	325.8	325.4	324.9	324.4	323.9



TEST NUMBER: P332721-840

CATALOG NUMBER: S124DIW-S350D770U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	368.3	368.4	367.9	367.4	367.0	366.5	365.8	364.9	364.1	363.1	362.2
115°	423.1	422.7	422.9	423.1	423.2	423.4	423.2	422.7	422.3	421.8	421.3
117.5°	479.1	479.2	478.8	478.4	478.1	477.7	477.2	476.5	475.8	475.1	474.5
120°	513.1	512.7	512.9	513.1	513.2	513.4	513.1	512.5	511.8	511.2	510.5
122.5°	547.1	546.9	546.6	546.4	546.2	545.9	545.6	545.2	544.8	544.4	544.1
125°	594.2	593.7	594.0	594.4	594.7	595.0	594.8	594.2	593.5	592.9	592.2
127.5°	641.9	642.0	641.2	640.5	639.6	638.9	638.4	638.2	638.1	637.9	637.7
130°	670.3	670.1	669.6	669.1	668.6	668.1	667.8	667.6	667.5	667.3	667.1
132.5°	698.5	698.3	697.7	697.1	696.4	695.8	695.3	695.0	694.8	694.5	694.2
135°	737.2	736.9	736.2	735.5	734.9	734.2	734.0	734.1	734.3	734.5	734.6
137.5°	774.4	774.1	773.4	772.5	771.8	771.1	770.7	770.6	770.6	770.5	770.4
140°	797.3	796.9	796.5	796.2	795.9	795.5	795.2	794.9	794.5	794.2	793.9
142.5°	818.8	818.4	818.2	818.0	817.8	817.6	817.2	816.6	816.1	815.5	814.9
145°	849.5	849.3	849.3	849.3	849.3	849.3	849.1	848.6	848.1	847.6	847.1
147.5°	876.3	876.2	876.3	876.5	876.7	876.8	876.5	875.5	874.5	873.6	872.7
150°	893.5	893.5	893.7	893.8	894.0	894.2	893.9	893.3	892.6	891.9	891.3
152.5°	908.2	908.0	908.3	908.6	908.8	909.1	909.0	908.5	908.0	907.4	906.9
155°	928.0	927.3	927.8	928.3	928.8	929.3	929.5	929.3	929.1	929.0	928.8
157.5°	945.0	944.2	944.7	945.3	945.9	946.4	946.8	947.0	947.1	947.2	947.3
160°	956.0	955.0	955.1	955.3	955.5	955.6	956.0	956.5	957.0	957.5	958.0
162.5°	965.0	964.0	964.1	964.3	964.5	964.6	965.0	965.7	966.3	966.9	967.6
165°	977.3	976.0	976.0	976.0	976.0	976.0	976.4	977.2	978.1	978.9	979.8
167.5°	986.4	985.0	985.1	985.2	985.3	985.4	985.8	986.7	987.6	988.5	989.4
170°	992.3	991.0	990.8	990.7	990.5	990.3	990.8	991.7	992.7	993.7	994.7
172.5°	995.9	994.6	994.4	994.2	994.1	993.9	994.3	995.3	996.3	997.3	998.4
175°	1000.0	998.5	998.4	998.2	997.9	997.8	998.3	999.3	1000.3	1001.2	1002.2
177.5°	1002.1	1001.0	1000.8	1000.5	1000.3	1000.0	1000.3	1001.2	1002.2	1003.1	1004.0
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2



TEST NUMBER: P332721-840

CATALOG NUMBER: S124DIW-S350D770U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	580.8	582.7	585.2	589.4	590.9	592.8	595.5	595.3	596.0	599.0	605.0
5°	582.9	590.4	597.5	606.1	615.2	621.2	629.2	634.3	639.3	645.8	656.8
7.5°	583.8	595.5	608.6	623.8	637.2	652.7	664.8	676.2	686.5	700.0	713.2
10°	582.5	598.2	615.2	634.3	654.6	671.9	687.4	705.1	720.1	736.6	751.4
12.5°	580.0	599.0	621.7	643.1	666.8	692.3	711.7	729.5	749.5	768.5	791.4
15°	574.3	600.4	626.9	655.1	686.9	716.3	744.3	767.4	788.9	817.4	847.3
17.5°	567.1	595.2	628.7	662.9	696.1	729.6	764.3	799.1	826.3	861.6	884.9
20°	560.5	593.0	627.4	668.0	701.3	743.1	777.5	811.1	848.5	883.6	911.6
22.5°	551.1	586.6	623.2	663.6	707.3	749.2	788.9	825.5	862.8	901.0	934.8
25°	539.2	571.5	614.7	660.6	704.1	749.5	795.2	841.0	881.2	921.6	953.1
27.5°	519.0	559.7	600.0	647.3	695.6	747.0	795.9	843.8	886.0	919.2	938.7
30°	508.6	544.0	587.7	635.3	687.6	742.9	793.8	840.8	880.0	906.6	914.4
32.5°	493.3	529.8	572.6	621.9	677.3	734.1	787.0	831.4	864.1	878.1	868.6
35°	470.6	503.6	546.8	597.2	654.9	715.3	767.7	805.2	821.9	808.8	776.1
37.5°	443.3	476.1	519.5	569.1	628.6	690.1	737.4	764.5	758.9	726.2	677.4
40°	424.2	454.8	496.1	549.7	607.7	669.4	711.0	725.6	710.3	663.5	611.6
42.5°	403.0	432.8	474.3	526.0	587.5	644.4	680.6	681.9	656.2	600.2	548.2
45°	370.7	399.1	438.3	492.1	549.0	602.5	626.4	614.7	567.3	513.4	461.0
47.5°	338.8	363.5	402.1	453.1	507.2	552.2	564.1	543.0	492.6	440.1	391.6
50°	315.5	340.3	376.7	425.5	477.6	516.4	522.2	494.2	444.7	391.9	354.0
52.5°	293.1	317.8	352.7	397.9	445.6	480.7	480.9	448.6	399.3	352.2	316.9
55°	260.2	282.5	314.1	354.5	397.0	424.4	417.8	384.4	341.5	300.6	269.8
57.5°	228.6	248.0	277.0	310.7	348.2	370.9	359.8	327.6	289.4	254.7	231.4
60°	208.1	226.6	251.5	283.3	314.8	332.4	321.9	292.8	257.6	229.6	209.3
62.5°	188.2	203.8	227.7	255.3	284.6	297.6	288.3	259.5	229.1	203.9	187.3
65°	160.2	172.8	191.9	215.6	236.8	248.1	240.2	213.4	190.3	172.1	159.0
67.5°	133.8	143.7	158.2	177.2	195.3	201.4	194.2	175.5	155.9	141.4	132.1
70°	115.6	125.0	137.1	151.8	167.5	174.0	166.8	152.0	136.0	122.6	113.5
72.5°	99.8	107.0	117.3	129.8	142.1	148.6	143.7	129.5	115.9	105.9	98.3
75°	76.0	82.2	89.4	98.3	107.8	112.1	107.8	98.0	88.7	81.3	75.7
77.5°	55.2	58.6	64.1	70.8	76.7	80.0	76.2	69.7	63.9	58.9	56.1
80°	42.1	44.4	48.3	53.5	57.6	60.7	58.3	52.8	48.3	44.9	43.7
82.5°	30.6	32.2	34.7	38.6	41.3	42.9	41.9	37.9	36.1	33.1	31.9
85°	15.0	16.1	17.7	18.9	21.3	21.5	21.7	20.1	18.4	17.7	16.8
87.5°	6.0	6.6	7.5	8.4	9.5	10.0	10.0	10.3	9.8	9.8	9.3
90°	4.0	6.0	7.8	9.6	11.2	12.5	13.8	15.1	16.5	17.5	18.5
92.5°	9.6	9.7	9.7	9.8	10.6	11.9	13.2	14.5	15.9	16.9	17.9
95°	35.5	29.9	24.2	18.6	15.9	16.0	16.2	16.4	16.5	17.5	18.5
97.5°	91.1	94.6	98.2	101.7	94.1	75.5	57.0	38.4	19.8	19.9	20.0
100°	125.9	129.0	131.9	134.9	124.9	102.0	79.0	55.9	33.0	30.2	27.4
102.5°	164.7	166.9	169.2	171.3	170.9	167.9	164.9	161.9	159.0	128.4	97.9
105°	226.6	227.6	228.6	229.6	230.6	231.4	232.2	233.1	233.9	235.4	236.9
107.5°	284.8	285.3	285.8	286.3	287.1	288.2	289.3	290.4	291.5	292.4	293.1
110°	324.4	324.9	325.4	325.8	326.6	327.6	328.6	329.6	330.5	330.9	331.2





TEST NUMBER: P332721-840

CATALOG NUMBER: S124DIW-S350D770U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	363.1	364.1	364.9	365.8	366.5	367.0	367.4	367.9	368.4	368.3	368.2
115°	421.8	422.3	422.7	423.2	423.4	423.2	423.1	422.9	422.7	423.1	423.4
117.5°	475.1	475.8	476.5	477.2	477.7	478.1	478.4	478.8	479.2	479.1	479.0
120°	511.2	511.8	512.5	513.1	513.4	513.2	513.1	512.9	512.7	513.1	513.4
122.5°	544.4	544.8	545.2	545.6	545.9	546.2	546.4	546.6	546.9	547.1	547.3
125°	592.9	593.5	594.2	594.8	595.0	594.7	594.4	594.0	593.7	594.2	594.7
127.5°	637.9	638.1	638.2	638.4	638.9	639.6	640.5	641.2	642.0	641.9	641.8
130°	667.3	667.5	667.6	667.8	668.1	668.6	669.1	669.6	670.1	670.3	670.4
132.5°	694.5	694.8	695.0	695.3	695.8	696.4	697.1	697.7	698.3	698.5	698.6
135°	734.5	734.3	734.1	734.0	734.2	734.9	735.5	736.2	736.9	737.2	737.5
137.5°	770.5	770.6	770.6	770.7	771.1	771.8	772.5	773.4	774.1	774.4	774.8
140°	794.2	794.5	794.9	795.2	795.5	795.9	796.2	796.5	796.9	797.3	797.8
142.5°	815.5	816.1	816.6	817.2	817.6	817.8	818.0	818.2	818.4	818.8	819.2
145°	847.6	848.1	848.6	849.1	849.3	849.3	849.3	849.3	849.3	849.5	849.6
147.5°	873.6	874.5	875.5	876.5	876.8	876.7	876.5	876.3	876.2	876.3	876.4
150°	891.9	892.6	893.3	893.9	894.2	894.0	893.8	893.7	893.5	893.5	893.5
152.5°	907.4	908.0	908.5	909.0	909.1	908.8	908.6	908.3	908.0	908.2	908.5
155°	929.0	929.1	929.3	929.5	929.3	928.8	928.3	927.8	927.3	928.0	928.6
157.5°	947.2	947.1	947.0	946.8	946.4	945.9	945.3	944.7	944.2	945.0	945.9
160°	957.5	957.0	956.5	956.0	955.6	955.5	955.3	955.1	955.0	956.0	957.0
162.5°	966.9	966.3	965.7	965.0	964.6	964.5	964.3	964.1	964.0	965.0	966.0
165°	978.9	978.1	977.2	976.4	976.0	976.0	976.0	976.0	976.0	977.3	978.7
167.5°	988.5	987.6	986.7	985.8	985.4	985.3	985.2	985.1	985.0	986.4	988.0
170°	993.7	992.7	991.7	990.8	990.3	990.5	990.7	990.8	991.0	992.3	993.6
172.5°	997.3	996.3	995.3	994.3	993.9	994.1	994.2	994.4	994.6	995.9	997.2
175°	1001.2	1000.3	999.3	998.3	997.8	997.9	998.2	998.4	998.5	1000.0	1001.5
177.5°	1003.1	1002.2	1001.2	1000.3	1000.0	1000.3	1000.5	1000.8	1001.0	1002.1	1003.2
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	608.1	608.5	610.3	611.6	612.0	613.9	614.0
5°	661.6	665.6	673.5	674.2	675.4	681.7	676.8
7.5°	724.2	734.5	741.3	747.5	749.6	752.3	751.8
10°	764.4	779.6	787.3	799.5	799.9	803.0	801.1
12.5°	804.7	822.4	836.4	838.7	848.9	850.5	853.1
15°	861.8	880.7	900.1	907.1	921.1	924.4	929.7
17.5°	915.5	934.8	948.5	966.3	972.2	979.9	974.6
20°	945.0	966.0	983.3	997.3	1003.3	1007.6	1007.1
22.5°	962.8	984.0	997.9	1008.7	1014.2	1016.0	1015.9
25°	973.9	986.1	990.5	994.5	988.3	986.1	987.0
27.5°	942.9	939.8	928.6	913.8	898.6	886.5	879.8
30°	900.3	881.7	864.7	835.1	819.8	810.7	802.5
32.5°	839.9	810.3	777.7	750.5	733.2	719.7	717.7
35°	736.4	692.0	652.0	618.7	601.6	587.0	583.6
37.5°	626.0	579.9	543.9	514.6	496.1	485.8	476.3
40°	552.8	513.1	477.8	452.9	438.8	431.4	425.5
42.5°	496.4	460.2	425.0	406.1	393.3	388.8	385.3
45°	418.5	384.8	360.4	346.1	338.7	331.0	327.4
47.5°	356.1	328.7	312.7	300.4	292.5	287.9	285.7
50°	320.7	298.3	284.0	274.6	267.4	263.9	262.0
52.5°	289.4	270.9	258.9	251.5	246.6	244.0	243.2
55°	249.2	235.2	227.5	221.1	217.5	215.1	214.2
57.5°	216.7	205.8	199.7	194.3	192.9	191.0	190.3
60°	195.3	186.9	181.7	178.0	176.8	174.5	174.9
62.5°	176.3	169.5	165.0	163.0	161.4	159.4	160.1
65°	149.2	144.1	141.7	139.9	137.9	136.7	137.6
67.5°	125.1	121.7	118.5	117.3	116.4	116.2	115.2
70°	109.5	106.6	103.7	103.0	103.0	102.1	101.8
72.5°	94.3	92.3	90.4	89.8	89.1	89.5	88.5
75°	72.9	71.2	70.5	69.8	69.6	69.6	68.9
77.5°	53.8	52.6	51.5	51.5	50.6	50.3	50.2
80°	40.9	40.4	39.5	39.5	39.0	39.2	38.7
82.5°	30.7	30.1	29.9	29.5	28.8	28.9	28.4
85°	16.5	15.8	15.6	14.8	14.3	14.8	14.3
87.5°	9.6	9.6	9.6	9.3	9.2	9.2	8.7
90°	19.5	20.5	21.1	21.5	21.8	22.1	22.5
92.5°	18.9	19.9	20.4	20.5	20.6	20.6	20.7
95°	19.5	20.5	21.1	21.2	21.4	21.6	21.7
97.5°	20.1	20.2	20.3	20.5	20.7	20.8	21.0
100°	24.4	21.6	20.3	20.5	20.7	20.8	21.0
102.5°	67.3	36.8	21.4	21.5	21.5	21.5	21.6
105°	238.3	239.8	237.6	231.7	225.6	219.6	213.7
107.5°	293.8	294.6	295.2	295.9	296.5	297.1	297.7
110°	331.5	331.9	332.3	332.9	333.4	333.9	334.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	368.2	368.1	368.4	369.0	369.6	370.3	370.9
115°	423.7	424.1	424.2	424.2	424.2	424.2	424.2
117.5°	479.0	478.9	478.8	478.8	478.7	478.6	478.6
120°	513.7	514.0	514.0	513.7	513.4	513.1	512.7
122.5°	547.5	547.8	547.6	547.3	546.9	546.6	546.3
125°	595.2	595.7	596.0	596.2	596.3	596.5	596.7
127.5°	641.7	641.6	641.5	641.4	641.2	641.1	641.0
130°	670.7	670.9	670.9	670.9	670.9	670.9	670.9
132.5°	698.8	699.0	699.0	698.9	698.7	698.6	698.5
135°	737.9	738.2	738.5	738.8	739.2	739.5	739.8
137.5°	775.2	775.5	775.7	775.6	775.5	775.4	775.3
140°	798.3	798.8	799.2	799.3	799.5	799.7	799.8
142.5°	819.5	819.9	820.1	820.1	820.1	820.2	820.2
145°	849.8	850.0	850.2	850.5	850.9	851.2	851.5
147.5°	876.6	876.7	876.9	877.0	877.2	877.4	877.5
150°	893.5	893.5	893.6	893.8	893.9	894.1	894.2
152.5°	908.7	909.0	909.1	909.0	908.9	908.8	908.7
155°	929.3	929.9	930.0	929.5	929.0	928.5	928.1
157.5°	946.8	947.7	947.7	946.8	945.9	945.0	944.2
160°	958.0	959.0	959.0	958.0	957.0	956.0	955.0
162.5°	966.9	968.0	968.0	966.8	965.6	964.5	963.4
165°	980.0	981.3	981.3	979.8	978.3	976.7	975.2
167.5°	989.4	990.9	990.8	989.1	987.4	985.7	984.1
170°	995.0	996.3	996.1	994.5	992.8	991.2	989.5
172.5°	998.6	999.9	999.7	997.8	996.1	994.3	992.5
175°	1003.0	1004.5	1004.2	1002.2	1000.3	998.3	996.2
177.5°	1004.2	1005.3	1005.0	1003.4	1001.8	1000.3	998.7
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2

(END OF REPORT)