

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: P332508-840

Luminaire Tested: **S124DIP-S350D810U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332508-840  
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: S124DIP-S350D810U840-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4860.5 lumens  
Efficiency: N/A  
Efficacy: 155.8 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

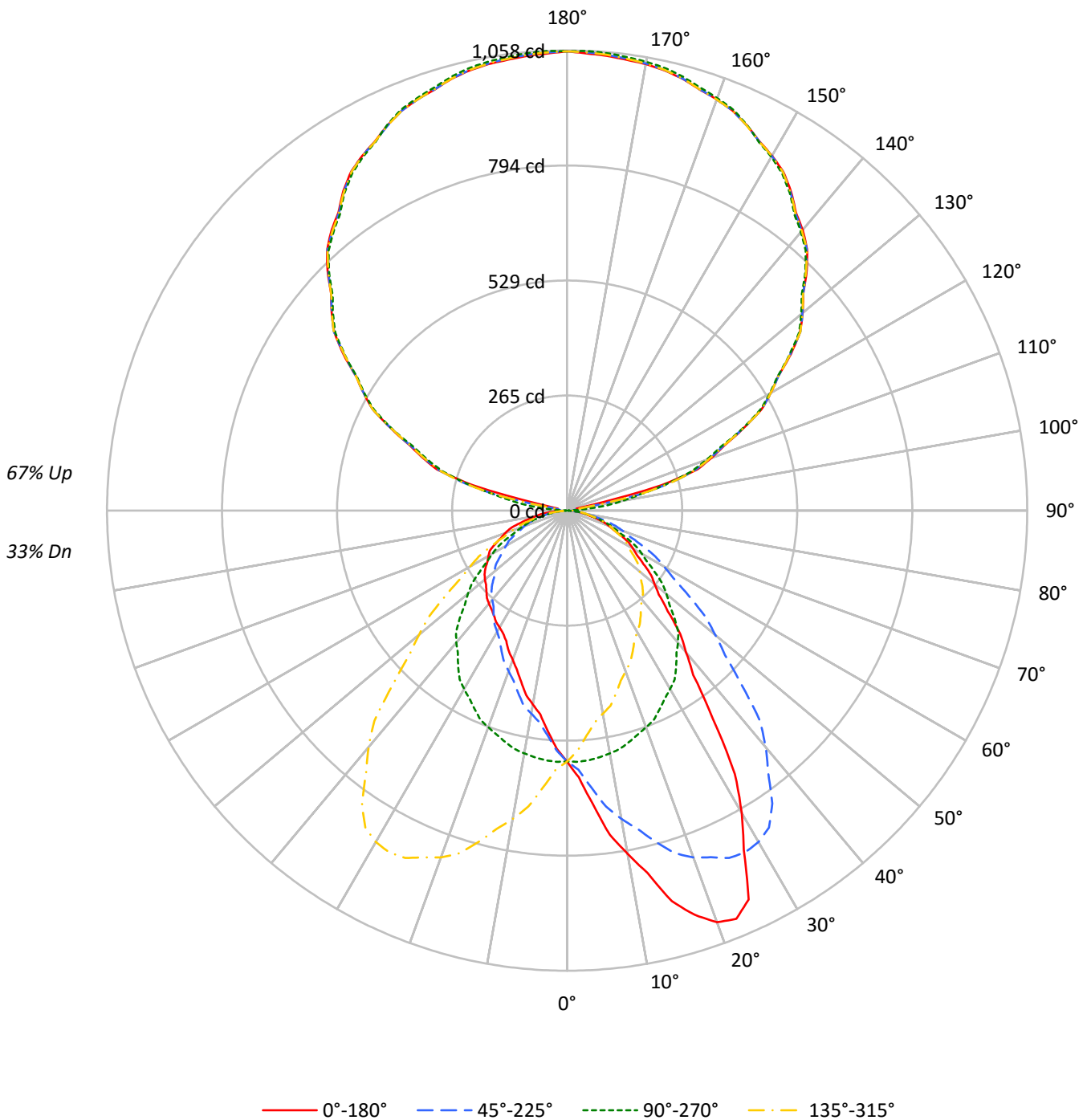
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	42	39	32	30	29	24
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	61	54	48	64	56	49	44	45	40	36	35	31	29	25	23	22	17
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	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	3.6
20°-30°	274.7	5.7
30°-40°	305.7	6.3
40°-50°	278.3	5.7
50°-60°	227.4	4.7
60°-70°	162.4	3.3
70°-80°	89.4	1.8
80°-90°	27.5	0.6
90°-100°	36.1	0.7
100°-110°	230.2	4.7
110°-120°	440.4	9.1
120°-130°	559.1	11.5
130°-140°	598.2	12.3
140°-150°	559.3	11.5
150°-160°	451.1	9.3
160°-170°	290.9	6.0
170°-180°	100.3	2.1
0°-30°	504.2	10.4
0°-40°	809.9	16.7
0°-60°	1315.6	27.1
0°-90°	1594.9	32.8
90°-120°	706.7	14.5
90°-150°	2423.3	49.9
90°-180°	3266.0	67.2
0°-180°	4860.5	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°	24	2	24	2	24	11
95°	23	43	23	43	23	18
105°	225	238	225	238	225	196
115°	447	444	447	444	447	442
125°	628	624	628	624	628	560
135°	779	774	779	774	779	600
145°	897	892	897	892	897	561
155°	978	978	978	978	978	451
165°	1027	1032	1027	1032	1027	290
175°	1049	1056	1049	1056	1049	100
180°	1056	1056	1056	1056	1056	



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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°	9.0	9.5	9.4	9.5	9.8	9.9	9.8	9.4	10.0	10.0	10.5
90°	23.7	23.3	23.0	22.6	22.3	21.6	20.5	19.5	18.4	17.4	16.0
92.5°	21.8	21.7	21.6	21.6	21.5	20.9	19.9	18.9	17.8	16.8	15.3
95°	22.9	22.7	22.5	22.4	22.2	21.6	20.5	19.5	18.4	17.4	17.2
97.5°	22.1	21.9	21.7	21.6	21.4	21.3	21.2	21.1	20.9	20.8	40.4
100°	22.1	21.9	21.7	21.6	21.4	22.8	25.8	28.8	31.7	34.7	59.0
102.5°	22.7	22.7	22.6	22.6	22.6	38.7	70.9	103.0	135.2	167.4	170.6
105°	225.0	231.4	237.6	244.0	250.3	252.7	251.1	249.5	247.9	246.3	245.5
107.5°	313.7	313.0	312.3	311.6	310.9	310.2	309.4	308.7	307.9	307.2	306.0
110°	352.1	351.6	351.1	350.6	350.0	349.6	349.3	348.9	348.6	348.2	347.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	390.7	390.0	389.4	388.7	388.0	387.7	387.8	387.9	388.0	388.0	387.5
115°	447.0	447.0	447.0	447.0	447.0	446.8	446.4	446.1	445.7	445.4	445.6
117.5°	504.1	504.1	504.2	504.3	504.3	504.4	504.5	504.5	504.6	504.7	504.3
120°	540.1	540.5	540.8	541.2	541.5	541.5	541.2	540.8	540.5	540.1	540.3
122.5°	575.4	575.8	576.1	576.5	576.8	576.9	576.7	576.5	576.3	576.1	575.8
125°	628.5	628.3	628.1	628.0	627.8	627.4	626.9	626.4	625.9	625.4	625.7
127.5°	675.1	675.3	675.4	675.5	675.7	675.8	675.9	676.0	676.1	676.2	675.4
130°	706.7	706.7	706.7	706.7	706.7	706.6	706.4	706.3	706.1	705.9	705.4
132.5°	735.8	735.9	736.0	736.2	736.3	736.3	736.1	736.0	735.8	735.6	734.9
135°	779.3	779.0	778.6	778.3	777.9	777.6	777.2	776.9	776.5	776.2	775.5
137.5°	816.6	816.7	816.8	816.9	817.0	816.9	816.5	816.1	815.8	815.4	814.6
140°	842.5	842.3	842.1	842.0	841.8	841.4	840.9	840.4	839.9	839.3	839.0
142.5°	863.9	863.9	863.9	863.8	863.8	863.6	863.2	862.8	862.5	862.1	861.9
145°	897.0	896.7	896.3	896.0	895.5	895.3	895.1	894.9	894.8	894.6	894.6
147.5°	924.3	924.1	923.9	923.8	923.6	923.4	923.3	923.2	923.0	922.9	923.0
150°	942.0	941.8	941.6	941.5	941.3	941.2	941.2	941.2	941.2	941.2	941.4
152.5°	957.2	957.3	957.4	957.5	957.6	957.5	957.3	956.9	956.6	956.3	956.6
155°	977.5	978.1	978.6	979.1	979.7	979.6	978.9	978.2	977.4	976.7	977.2
157.5°	994.6	995.5	996.4	997.3	998.3	998.3	997.3	996.4	995.5	994.6	995.2
160°	1005.9	1007.0	1008.0	1009.2	1010.2	1010.2	1009.2	1008.0	1007.0	1005.9	1006.1
162.5°	1014.8	1016.0	1017.1	1018.3	1019.6	1019.7	1018.5	1017.5	1016.5	1015.4	1015.6
165°	1027.2	1028.9	1030.5	1032.0	1033.6	1033.7	1032.3	1030.9	1029.5	1028.0	1028.0
167.5°	1036.6	1038.3	1040.1	1041.9	1043.6	1043.7	1042.2	1040.7	1039.1	1037.5	1037.6
170°	1042.3	1044.0	1045.8	1047.5	1049.2	1049.5	1048.0	1046.6	1045.2	1043.9	1043.7
172.5°	1045.4	1047.3	1049.2	1051.2	1053.0	1053.3	1051.9	1050.5	1049.0	1047.6	1047.4
175°	1049.4	1051.5	1053.6	1055.7	1057.8	1058.0	1056.5	1054.9	1053.3	1051.8	1051.6
177.5°	1051.9	1053.6	1055.3	1056.9	1058.6	1058.9	1057.8	1056.7	1055.5	1054.4	1054.2
180°	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7



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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°	10.2	10.1	9.6	8.5	7.6	6.6	6.1	5.5	6.1	6.6	7.2
90°	14.5	13.1	11.7	10.1	8.2	6.3	4.3	2.3	4.3	6.3	8.2
92.5°	13.9	12.5	11.1	10.4	10.3	10.2	10.1	10.0	10.1	10.2	10.3
95°	17.1	16.9	16.7	19.6	25.5	31.5	37.5	43.4	37.5	31.5	25.5
97.5°	60.0	79.6	99.2	107.1	103.4	99.7	95.9	92.2	95.9	99.7	103.4
100°	83.2	107.3	131.6	142.1	139.0	135.8	132.7	129.5	132.7	135.8	139.0
102.5°	173.7	176.8	180.1	180.5	178.1	175.8	173.5	171.2	173.5	175.8	178.1
105°	244.6	243.7	242.9	241.9	240.9	239.7	238.7	237.6	238.7	239.7	240.9
107.5°	304.8	303.6	302.4	301.5	301.0	300.4	299.9	299.4	299.9	300.4	301.0
110°	346.1	345.1	344.0	343.3	342.6	342.1	341.6	341.1	341.6	342.1	342.6





TEST NUMBER: P332508-840

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	387.0	386.6	386.1	385.4	384.4	383.4	382.4	381.5	382.4	383.4	384.4
115°	445.7	445.9	446.1	445.9	445.4	444.8	444.2	443.7	444.2	444.8	445.4
117.5°	503.9	503.5	503.2	502.6	501.9	501.2	500.5	499.8	500.5	501.2	501.9
120°	540.5	540.6	540.8	540.5	539.9	539.2	538.5	537.8	538.5	539.2	539.9
122.5°	575.6	575.3	575.1	574.8	574.3	573.9	573.5	573.1	573.5	573.9	574.3
125°	626.1	626.4	626.7	626.6	625.9	625.2	624.5	623.8	624.5	625.2	625.9
127.5°	674.6	673.8	673.0	672.5	672.4	672.2	672.0	671.8	672.0	672.2	672.4
130°	704.9	704.3	703.8	703.5	703.3	703.1	703.0	702.8	703.0	703.1	703.3
132.5°	734.3	733.6	733.0	732.5	732.2	731.8	731.4	731.1	731.4	731.8	732.2
135°	774.8	774.1	773.4	773.2	773.3	773.5	773.7	773.9	773.7	773.5	773.3
137.5°	813.9	813.0	812.2	811.8	811.7	811.7	811.6	811.5	811.6	811.7	811.7
140°	838.7	838.3	838.0	837.6	837.3	836.9	836.6	836.2	836.6	836.9	837.3
142.5°	861.7	861.4	861.2	860.8	860.2	859.6	858.9	858.3	858.9	859.6	860.2
145°	894.6	894.6	894.6	894.3	893.8	893.3	892.8	892.2	892.8	893.3	893.8
147.5°	923.2	923.4	923.6	923.2	922.2	921.2	920.3	919.3	920.3	921.2	922.2
150°	941.6	941.7	941.9	941.6	941.0	940.3	939.6	938.9	939.6	940.3	941.0
152.5°	957.0	957.4	957.7	957.6	956.9	956.3	955.8	955.2	955.8	956.3	956.9
155°	977.8	978.4	978.9	979.1	978.9	978.7	978.5	978.4	978.5	978.7	978.9
157.5°	995.8	996.3	996.9	997.3	997.4	997.5	997.6	997.7	997.6	997.5	997.4
160°	1006.3	1006.5	1006.6	1007.0	1007.5	1008.0	1008.6	1009.2	1008.6	1008.0	1007.5
162.5°	1015.8	1015.9	1016.1	1016.5	1017.2	1017.8	1018.5	1019.3	1018.5	1017.8	1017.2
165°	1028.0	1028.0	1028.0	1028.5	1029.4	1030.3	1031.2	1032.0	1031.2	1030.3	1029.4
167.5°	1037.7	1037.8	1037.9	1038.4	1039.4	1040.3	1041.2	1042.1	1041.2	1040.3	1039.4
170°	1043.5	1043.3	1043.2	1043.6	1044.6	1045.7	1046.7	1047.8	1046.7	1045.7	1044.6
172.5°	1047.3	1047.1	1046.9	1047.4	1048.4	1049.5	1050.6	1051.6	1050.6	1049.5	1048.4
175°	1051.4	1051.3	1051.1	1051.5	1052.6	1053.6	1054.6	1055.7	1054.6	1053.6	1052.6
177.5°	1053.9	1053.6	1053.3	1053.7	1054.6	1055.6	1056.6	1057.6	1056.6	1055.6	1054.6
180°	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7



TEST NUMBER: P332508-840

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**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°	8.2	8.5	9.5	10.2	11.0	12.2	12.8	15.1	16.2	17.3	19.2
90°	10.1	11.7	13.1	14.5	16.0	17.4	18.4	19.5	20.5	21.6	22.3
92.5°	10.4	11.1	12.5	13.9	15.3	16.8	17.8	18.9	19.9	20.9	21.5
95°	19.6	16.7	16.9	17.1	17.2	17.4	18.4	19.5	20.5	21.6	22.2
97.5°	107.1	99.2	79.6	60.0	40.4	20.8	20.9	21.1	21.2	21.3	21.4
100°	142.1	131.6	107.3	83.2	59.0	34.7	31.7	28.8	25.8	22.8	21.4
102.5°	180.5	180.1	176.8	173.7	170.6	167.4	135.2	103.0	70.9	38.7	22.6
105°	241.9	242.9	243.7	244.6	245.5	246.3	247.9	249.5	251.1	252.7	250.3
107.5°	301.5	302.4	303.6	304.8	306.0	307.2	307.9	308.7	309.4	310.2	310.9
110°	343.3	344.0	345.1	346.1	347.2	348.2	348.6	348.9	349.3	349.6	350.0



TEST NUMBER: P332508-840

CATALOG NUMBER: S124DIP-S350D810U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	385.4	386.1	386.6	387.0	387.5	388.0	388.0	387.9	387.8	387.7	388.0
115°	445.9	446.1	445.9	445.7	445.6	445.4	445.7	446.1	446.4	446.8	447.0
117.5°	502.6	503.2	503.5	503.9	504.3	504.7	504.6	504.5	504.5	504.4	504.3
120°	540.5	540.8	540.6	540.5	540.3	540.1	540.5	540.8	541.2	541.5	541.5
122.5°	574.8	575.1	575.3	575.6	575.8	576.1	576.3	576.5	576.7	576.9	576.8
125°	626.6	626.7	626.4	626.1	625.7	625.4	625.9	626.4	626.9	627.4	627.8
127.5°	672.5	673.0	673.8	674.6	675.4	676.2	676.1	676.0	675.9	675.8	675.7
130°	703.5	703.8	704.3	704.9	705.4	705.9	706.1	706.3	706.4	706.6	706.7
132.5°	732.5	733.0	733.6	734.3	734.9	735.6	735.8	736.0	736.1	736.3	736.3
135°	773.2	773.4	774.1	774.8	775.5	776.2	776.5	776.9	777.2	777.6	777.9
137.5°	811.8	812.2	813.0	813.9	814.6	815.4	815.8	816.1	816.5	816.9	817.0
140°	837.6	838.0	838.3	838.7	839.0	839.3	839.9	840.4	840.9	841.4	841.8
142.5°	860.8	861.2	861.4	861.7	861.9	862.1	862.5	862.8	863.2	863.6	863.8
145°	894.3	894.6	894.6	894.6	894.6	894.6	894.8	894.9	895.1	895.3	895.5
147.5°	923.2	923.6	923.4	923.2	923.0	922.9	923.0	923.2	923.3	923.4	923.6
150°	941.6	941.9	941.7	941.6	941.4	941.2	941.2	941.2	941.2	941.2	941.3
152.5°	957.6	957.7	957.4	957.0	956.6	956.3	956.6	956.9	957.3	957.5	957.6
155°	979.1	978.9	978.4	977.8	977.2	976.7	977.4	978.2	978.9	979.6	979.7
157.5°	997.3	996.9	996.3	995.8	995.2	994.6	995.5	996.4	997.3	998.3	998.3
160°	1007.0	1006.6	1006.5	1006.3	1006.1	1005.9	1007.0	1008.0	1009.2	1010.2	1010.2
162.5°	1016.5	1016.1	1015.9	1015.8	1015.6	1015.4	1016.5	1017.5	1018.5	1019.7	1019.6
165°	1028.5	1028.0	1028.0	1028.0	1028.0	1028.0	1029.5	1030.9	1032.3	1033.7	1033.6
167.5°	1038.4	1037.9	1037.8	1037.7	1037.6	1037.5	1039.1	1040.7	1042.2	1043.7	1043.6
170°	1043.6	1043.2	1043.3	1043.5	1043.7	1043.9	1045.2	1046.6	1048.0	1049.5	1049.2
172.5°	1047.4	1046.9	1047.1	1047.3	1047.4	1047.6	1049.0	1050.5	1051.9	1053.3	1053.0
175°	1051.5	1051.1	1051.3	1051.4	1051.6	1051.8	1053.3	1054.9	1056.5	1058.0	1057.8
177.5°	1053.7	1053.3	1053.6	1053.9	1054.2	1054.4	1055.5	1056.7	1057.8	1058.9	1058.6
180°	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7



TEST NUMBER: P332508-840

CATALOG NUMBER: S124DIP-S350D810U840-4F0-1E-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°	19.8	20.1	20.7	21.2	20.7	20.1	19.8	19.2	17.3	16.2	15.1
90°	22.6	23.0	23.3	23.7	23.3	23.0	22.6	22.3	21.6	20.5	19.5
92.5°	21.6	21.6	21.7	21.8	21.7	21.6	21.6	21.5	20.9	19.9	18.9
95°	22.4	22.5	22.7	22.9	22.7	22.5	22.4	22.2	21.6	20.5	19.5
97.5°	21.6	21.7	21.9	22.1	21.9	21.7	21.6	21.4	21.3	21.2	21.1
100°	21.6	21.7	21.9	22.1	21.9	21.7	21.6	21.4	22.8	25.8	28.8
102.5°	22.6	22.6	22.7	22.7	22.7	22.6	22.6	22.6	38.7	70.9	103.0
105°	244.0	237.6	231.4	225.0	231.4	237.6	244.0	250.3	252.7	251.1	249.5
107.5°	311.6	312.3	313.0	313.7	313.0	312.3	311.6	310.9	310.2	309.4	308.7
110°	350.6	351.1	351.6	352.1	351.6	351.1	350.6	350.0	349.6	349.3	348.9



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	388.7	389.4	390.0	390.7	390.0	389.4	388.7	388.0	387.7	387.8	387.9
115°	447.0	447.0	447.0	447.0	447.0	447.0	447.0	447.0	446.8	446.4	446.1
117.5°	504.3	504.2	504.1	504.1	504.1	504.2	504.3	504.3	504.4	504.5	504.5
120°	541.2	540.8	540.5	540.1	540.5	540.8	541.2	541.5	541.5	541.2	540.8
122.5°	576.5	576.1	575.8	575.4	575.8	576.1	576.5	576.8	576.9	576.7	576.5
125°	628.0	628.1	628.3	628.5	628.3	628.1	628.0	627.8	627.4	626.9	626.4
127.5°	675.5	675.4	675.3	675.1	675.3	675.4	675.5	675.7	675.8	675.9	676.0
130°	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.6	706.4	706.3
132.5°	736.2	736.0	735.9	735.8	735.9	736.0	736.2	736.3	736.3	736.1	736.0
135°	778.3	778.6	779.0	779.3	779.0	778.6	778.3	777.9	777.6	777.2	776.9
137.5°	816.9	816.8	816.7	816.6	816.7	816.8	816.9	817.0	816.9	816.5	816.1
140°	842.0	842.1	842.3	842.5	842.3	842.1	842.0	841.8	841.4	840.9	840.4
142.5°	863.8	863.9	863.9	863.9	863.9	863.9	863.8	863.8	863.6	863.2	862.8
145°	896.0	896.3	896.7	897.0	896.7	896.3	896.0	895.5	895.3	895.1	894.9
147.5°	923.8	923.9	924.1	924.3	924.1	923.9	923.8	923.6	923.4	923.3	923.2
150°	941.5	941.6	941.8	942.0	941.8	941.6	941.5	941.3	941.2	941.2	941.2
152.5°	957.5	957.4	957.3	957.2	957.3	957.4	957.5	957.6	957.5	957.3	956.9
155°	979.1	978.6	978.1	977.5	978.1	978.6	979.1	979.7	979.6	978.9	978.2
157.5°	997.3	996.4	995.5	994.6	995.5	996.4	997.3	998.3	998.3	997.3	996.4
160°	1009.2	1008.0	1007.0	1005.9	1007.0	1008.0	1009.2	1010.2	1010.2	1009.2	1008.0
162.5°	1018.3	1017.1	1016.0	1014.8	1016.0	1017.1	1018.3	1019.6	1019.7	1018.5	1017.5
165°	1032.0	1030.5	1028.9	1027.2	1028.9	1030.5	1032.0	1033.6	1033.7	1032.3	1030.9
167.5°	1041.9	1040.1	1038.3	1036.6	1038.3	1040.1	1041.9	1043.6	1043.7	1042.2	1040.7
170°	1047.5	1045.8	1044.0	1042.3	1044.0	1045.8	1047.5	1049.2	1049.5	1048.0	1046.6
172.5°	1051.2	1049.2	1047.3	1045.4	1047.3	1049.2	1051.2	1053.0	1053.3	1051.9	1050.5
175°	1055.7	1053.6	1051.5	1049.4	1051.5	1053.6	1055.7	1057.8	1058.0	1056.5	1054.9
177.5°	1056.9	1055.3	1053.6	1051.9	1053.6	1055.3	1056.9	1058.6	1058.9	1057.8	1056.7
180°	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7



TEST NUMBER: P332508-840

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**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°	12.8	12.2	11.0	10.2	9.5	8.5	8.2	7.2	6.6	6.1	5.5
90°	18.4	17.4	16.0	14.5	13.1	11.7	10.1	8.2	6.3	4.3	2.3
92.5°	17.8	16.8	15.3	13.9	12.5	11.1	10.4	10.3	10.2	10.1	10.0
95°	18.4	17.4	17.2	17.1	16.9	16.7	19.6	25.5	31.5	37.5	43.4
97.5°	20.9	20.8	40.4	60.0	79.6	99.2	107.1	103.4	99.7	95.9	92.2
100°	31.7	34.7	59.0	83.2	107.3	131.6	142.1	139.0	135.8	132.7	129.5
102.5°	135.2	167.4	170.6	173.7	176.8	180.1	180.5	178.1	175.8	173.5	171.2
105°	247.9	246.3	245.5	244.6	243.7	242.9	241.9	240.9	239.7	238.7	237.6
107.5°	307.9	307.2	306.0	304.8	303.6	302.4	301.5	301.0	300.4	299.9	299.4
110°	348.6	348.2	347.2	346.1	345.1	344.0	343.3	342.6	342.1	341.6	341.1



TEST NUMBER: P332508-840

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	388.0	388.0	387.5	387.0	386.6	386.1	385.4	384.4	383.4	382.4	381.5
115°	445.7	445.4	445.6	445.7	445.9	446.1	445.9	445.4	444.8	444.2	443.7
117.5°	504.6	504.7	504.3	503.9	503.5	503.2	502.6	501.9	501.2	500.5	499.8
120°	540.5	540.1	540.3	540.5	540.6	540.8	540.5	539.9	539.2	538.5	537.8
122.5°	576.3	576.1	575.8	575.6	575.3	575.1	574.8	574.3	573.9	573.5	573.1
125°	625.9	625.4	625.7	626.1	626.4	626.7	626.6	625.9	625.2	624.5	623.8
127.5°	676.1	676.2	675.4	674.6	673.8	673.0	672.5	672.4	672.2	672.0	671.8
130°	706.1	705.9	705.4	704.9	704.3	703.8	703.5	703.3	703.1	703.0	702.8
132.5°	735.8	735.6	734.9	734.3	733.6	733.0	732.5	732.2	731.8	731.4	731.1
135°	776.5	776.2	775.5	774.8	774.1	773.4	773.2	773.3	773.5	773.7	773.9
137.5°	815.8	815.4	814.6	813.9	813.0	812.2	811.8	811.7	811.7	811.6	811.5
140°	839.9	839.3	839.0	838.7	838.3	838.0	837.6	837.3	836.9	836.6	836.2
142.5°	862.5	862.1	861.9	861.7	861.4	861.2	860.8	860.2	859.6	858.9	858.3
145°	894.8	894.6	894.6	894.6	894.6	894.6	894.3	893.8	893.3	892.8	892.2
147.5°	923.0	922.9	923.0	923.2	923.4	923.6	923.2	922.2	921.2	920.3	919.3
150°	941.2	941.2	941.4	941.6	941.7	941.9	941.6	941.0	940.3	939.6	938.9
152.5°	956.6	956.3	956.6	957.0	957.4	957.7	957.6	956.9	956.3	955.8	955.2
155°	977.4	976.7	977.2	977.8	978.4	978.9	979.1	978.9	978.7	978.5	978.4
157.5°	995.5	994.6	995.2	995.8	996.3	996.9	997.3	997.4	997.5	997.6	997.7
160°	1007.0	1005.9	1006.1	1006.3	1006.5	1006.6	1007.0	1007.5	1008.0	1008.6	1009.2
162.5°	1016.5	1015.4	1015.6	1015.8	1015.9	1016.1	1016.5	1017.2	1017.8	1018.5	1019.3
165°	1029.5	1028.0	1028.0	1028.0	1028.0	1028.0	1028.5	1029.4	1030.3	1031.2	1032.0
167.5°	1039.1	1037.5	1037.6	1037.7	1037.8	1037.9	1038.4	1039.4	1040.3	1041.2	1042.1
170°	1045.2	1043.9	1043.7	1043.5	1043.3	1043.2	1043.6	1044.6	1045.7	1046.7	1047.8
172.5°	1049.0	1047.6	1047.4	1047.3	1047.1	1046.9	1047.4	1048.4	1049.5	1050.6	1051.6
175°	1053.3	1051.8	1051.6	1051.4	1051.3	1051.1	1051.5	1052.6	1053.6	1054.6	1055.7
177.5°	1055.5	1054.4	1054.2	1053.9	1053.6	1053.3	1053.7	1054.6	1055.6	1056.6	1057.6
180°	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7



TEST NUMBER: P332508-840

CATALOG NUMBER: S124DIP-S350D810U840-4F0-1E-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°	6.1	6.6	7.6	8.5	9.6	10.1	10.2	10.5	10.0	10.0	9.4
90°	4.3	6.3	8.2	10.1	11.7	13.1	14.5	16.0	17.4	18.4	19.5
92.5°	10.1	10.2	10.3	10.4	11.1	12.5	13.9	15.3	16.8	17.8	18.9
95°	37.5	31.5	25.5	19.6	16.7	16.9	17.1	17.2	17.4	18.4	19.5
97.5°	95.9	99.7	103.4	107.1	99.2	79.6	60.0	40.4	20.8	20.9	21.1
100°	132.7	135.8	139.0	142.1	131.6	107.3	83.2	59.0	34.7	31.7	28.8
102.5°	173.5	175.8	178.1	180.5	180.1	176.8	173.7	170.6	167.4	135.2	103.0
105°	238.7	239.7	240.9	241.9	242.9	243.7	244.6	245.5	246.3	247.9	249.5
107.5°	299.9	300.4	301.0	301.5	302.4	303.6	304.8	306.0	307.2	307.9	308.7
110°	341.6	342.1	342.6	343.3	344.0	345.1	346.1	347.2	348.2	348.6	348.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	382.4	383.4	384.4	385.4	386.1	386.6	387.0	387.5	388.0	388.0	387.9
115°	444.2	444.8	445.4	445.9	446.1	445.9	445.7	445.6	445.4	445.7	446.1
117.5°	500.5	501.2	501.9	502.6	503.2	503.5	503.9	504.3	504.7	504.6	504.5
120°	538.5	539.2	539.9	540.5	540.8	540.6	540.5	540.3	540.1	540.5	540.8
122.5°	573.5	573.9	574.3	574.8	575.1	575.3	575.6	575.8	576.1	576.3	576.5
125°	624.5	625.2	625.9	626.6	626.7	626.4	626.1	625.7	625.4	625.9	626.4
127.5°	672.0	672.2	672.4	672.5	673.0	673.8	674.6	675.4	676.2	676.1	676.0
130°	703.0	703.1	703.3	703.5	703.8	704.3	704.9	705.4	705.9	706.1	706.3
132.5°	731.4	731.8	732.2	732.5	733.0	733.6	734.3	734.9	735.6	735.8	736.0
135°	773.7	773.5	773.3	773.2	773.4	774.1	774.8	775.5	776.2	776.5	776.9
137.5°	811.6	811.7	811.7	811.8	812.2	813.0	813.9	814.6	815.4	815.8	816.1
140°	836.6	836.9	837.3	837.6	838.0	838.3	838.7	839.0	839.3	839.9	840.4
142.5°	858.9	859.6	860.2	860.8	861.2	861.4	861.7	861.9	862.1	862.5	862.8
145°	892.8	893.3	893.8	894.3	894.6	894.6	894.6	894.6	894.6	894.8	894.9
147.5°	920.3	921.2	922.2	923.2	923.6	923.4	923.2	923.0	922.9	923.0	923.2
150°	939.6	940.3	941.0	941.6	941.9	941.7	941.6	941.4	941.2	941.2	941.2
152.5°	955.8	956.3	956.9	957.6	957.7	957.4	957.0	956.6	956.3	956.6	956.9
155°	978.5	978.7	978.9	979.1	978.9	978.4	977.8	977.2	976.7	977.4	978.2
157.5°	997.6	997.5	997.4	997.3	996.9	996.3	995.8	995.2	994.6	995.5	996.4
160°	1008.6	1008.0	1007.5	1007.0	1006.6	1006.5	1006.3	1006.1	1005.9	1007.0	1008.0
162.5°	1018.5	1017.8	1017.2	1016.5	1016.1	1015.9	1015.8	1015.6	1015.4	1016.5	1017.5
165°	1031.2	1030.3	1029.4	1028.5	1028.0	1028.0	1028.0	1028.0	1028.0	1029.5	1030.9
167.5°	1041.2	1040.3	1039.4	1038.4	1037.9	1037.8	1037.7	1037.6	1037.5	1039.1	1040.7
170°	1046.7	1045.7	1044.6	1043.6	1043.2	1043.3	1043.5	1043.7	1043.9	1045.2	1046.6
172.5°	1050.6	1049.5	1048.4	1047.4	1046.9	1047.1	1047.3	1047.4	1047.6	1049.0	1050.5
175°	1054.6	1053.6	1052.6	1051.5	1051.1	1051.3	1051.4	1051.6	1051.8	1053.3	1054.9
177.5°	1056.6	1055.6	1054.6	1053.7	1053.3	1053.6	1053.9	1054.2	1054.4	1055.5	1056.7
180°	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7



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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°	9.8	9.9	9.8	9.5	9.4	9.5	9.0
90°	20.5	21.6	22.3	22.6	23.0	23.3	23.7
92.5°	19.9	20.9	21.5	21.6	21.6	21.7	21.8
95°	20.5	21.6	22.2	22.4	22.5	22.7	22.9
97.5°	21.2	21.3	21.4	21.6	21.7	21.9	22.1
100°	25.8	22.8	21.4	21.6	21.7	21.9	22.1
102.5°	70.9	38.7	22.6	22.6	22.6	22.7	22.7
105°	251.1	252.7	250.3	244.0	237.6	231.4	225.0
107.5°	309.4	310.2	310.9	311.6	312.3	313.0	313.7
110°	349.3	349.6	350.0	350.6	351.1	351.6	352.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	387.8	387.7	388.0	388.7	389.4	390.0	390.7
115°	446.4	446.8	447.0	447.0	447.0	447.0	447.0
117.5°	504.5	504.4	504.3	504.3	504.2	504.1	504.1
120°	541.2	541.5	541.5	541.2	540.8	540.5	540.1
122.5°	576.7	576.9	576.8	576.5	576.1	575.8	575.4
125°	626.9	627.4	627.8	628.0	628.1	628.3	628.5
127.5°	675.9	675.8	675.7	675.5	675.4	675.3	675.1
130°	706.4	706.6	706.7	706.7	706.7	706.7	706.7
132.5°	736.1	736.3	736.3	736.2	736.0	735.9	735.8
135°	777.2	777.6	777.9	778.3	778.6	779.0	779.3
137.5°	816.5	816.9	817.0	816.9	816.8	816.7	816.6
140°	840.9	841.4	841.8	842.0	842.1	842.3	842.5
142.5°	863.2	863.6	863.8	863.8	863.9	863.9	863.9
145°	895.1	895.3	895.5	896.0	896.3	896.7	897.0
147.5°	923.3	923.4	923.6	923.8	923.9	924.1	924.3
150°	941.2	941.2	941.3	941.5	941.6	941.8	942.0
152.5°	957.3	957.5	957.6	957.5	957.4	957.3	957.2
155°	978.9	979.6	979.7	979.1	978.6	978.1	977.5
157.5°	997.3	998.3	998.3	997.3	996.4	995.5	994.6
160°	1009.2	1010.2	1010.2	1009.2	1008.0	1007.0	1005.9
162.5°	1018.5	1019.7	1019.6	1018.3	1017.1	1016.0	1014.8
165°	1032.3	1033.7	1033.6	1032.0	1030.5	1028.9	1027.2
167.5°	1042.2	1043.7	1043.6	1041.9	1040.1	1038.3	1036.6
170°	1048.0	1049.5	1049.2	1047.5	1045.8	1044.0	1042.3
172.5°	1051.9	1053.3	1053.0	1051.2	1049.2	1047.3	1045.4
175°	1056.5	1058.0	1057.8	1055.7	1053.6	1051.5	1049.4
177.5°	1057.8	1058.9	1058.6	1056.9	1055.3	1053.6	1051.9
180°	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7

(END OF REPORT)