

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: P332501-840

Luminaire Tested: **S124DIP-S350D590U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332501-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIP-S350D590U840-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3726.0 lumens  
Efficiency: N/A  
Efficacy: 145.5 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

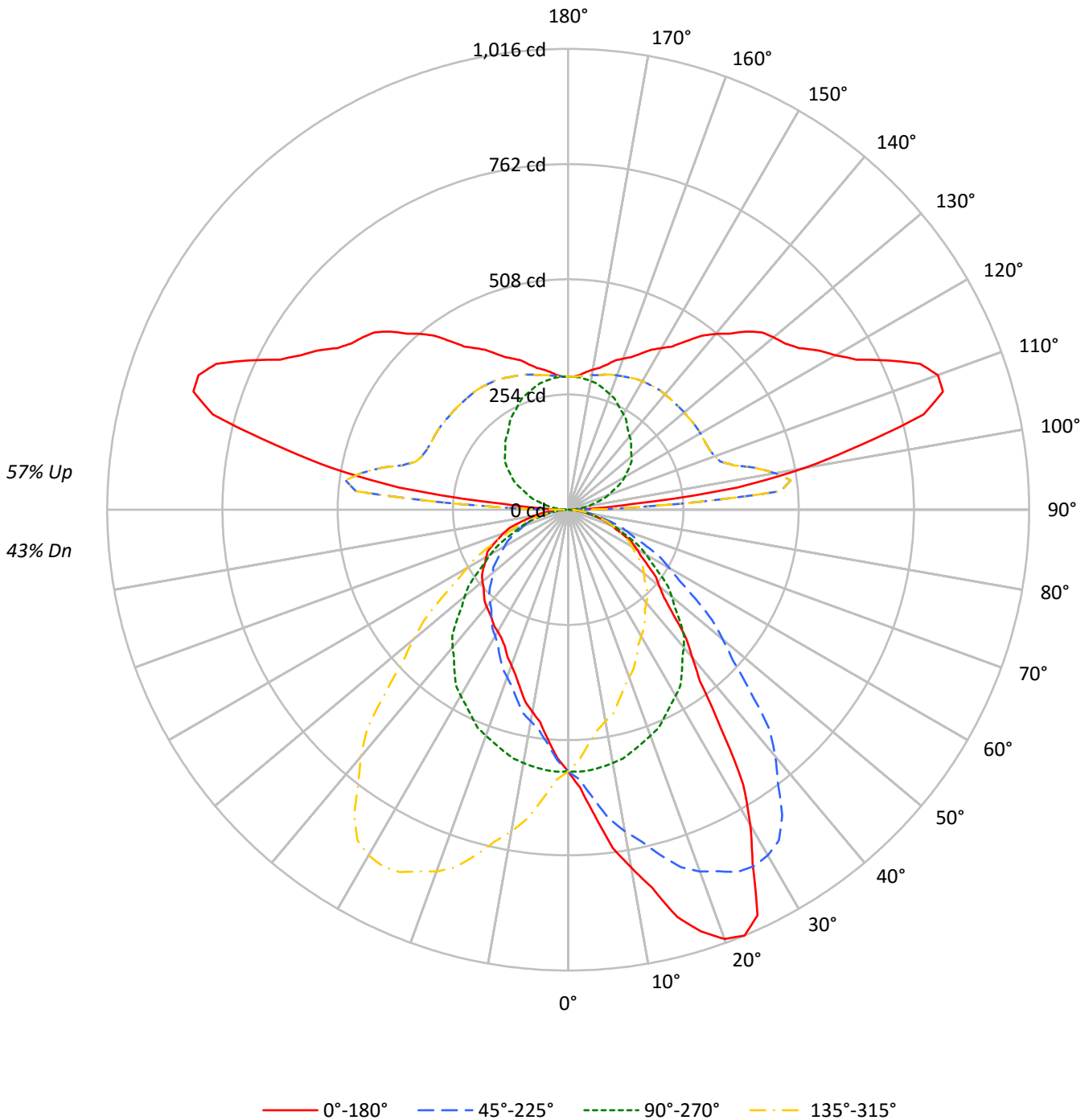
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43																												
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36																												
2	88	81	75	70	80	74	69	64	61	58	54	50	47	45	39	37	36	31																												
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	32	31	26																												
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23																												
5	67	56	48	42	61	52	45	40	43	38	34	35	32	29	28	25	23	20																												
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	21	18																												
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	16																												
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	21	19	16	14																												
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13																												
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	16	13	11																												

**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	1.5
10°-20°	173.3	4.6
20°-30°	274.7	7.4
30°-40°	305.7	8.2
40°-50°	278.3	7.5
50°-60°	227.4	6.1
60°-70°	162.4	4.4
70°-80°	89.4	2.4
80°-90°	26.0	0.7
90°-100°	211.8	5.7
100°-110°	440.8	11.8
110°-120°	394.8	10.6
120°-130°	332.1	8.9
130°-140°	276.9	7.4
140°-150°	211.5	5.7
150°-160°	148.7	4.0
160°-170°	87.5	2.3
170°-180°	28.5	0.8
0°-30°	504.2	13.5
0°-40°	809.9	21.7
0°-60°	1315.6	35.3
0°-90°	1593.4	42.8
90°-120°	1047.4	28.1
90°-150°	1868.0	50.1
90°-180°	2133.0	57.2
0°-180°	3726.0	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°	12	1	12	1	12	10
95°	141	19	141	19	141	218
105°	810	67	810	67	810	801
115°	778	119	778	119	778	773
125°	621	165	621	165	621	564
135°	555	196	555	196	555	429
145°	453	226	453	226	453	287
155°	380	258	380	258	380	177
165°	331	280	331	280	331	95
175°	298	293	298	293	298	29
180°	293	293	293	293	293	



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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°	6.7	7.2	7.3	7.4	7.7	7.9	7.9	7.6	8.3	8.6	9.1
90°	12.1	12.1	12.6	12.1	11.5	11.5	10.9	10.4	9.8	10.4	9.2
92.5°	44.3	44.3	46.4	49.4	56.2	67.8	85.1	113.1	152.2	182.7	160.0
95°	140.6	148.0	158.4	176.3	204.5	260.3	337.6	426.9	482.7	469.5	354.3
97.5°	375.7	387.7	405.0	439.7	481.0	541.2	597.5	630.7	606.5	494.5	331.6
100°	528.3	532.9	550.2	585.3	635.4	678.0	706.3	694.8	610.7	463.1	300.7
102.5°	661.0	664.7	682.9	708.3	739.1	756.9	748.7	691.6	576.0	424.0	279.9
105°	810.5	814.0	822.0	826.7	825.6	801.9	744.9	645.2	513.3	377.9	262.2
107.5°	866.1	864.5	858.8	845.7	817.2	765.9	685.5	579.5	462.6	352.1	258.9
110°	867.0	861.8	851.4	827.3	786.4	723.0	639.4	539.8	437.3	343.4	259.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	839.8	831.4	816.9	787.6	741.1	677.8	598.8	510.8	422.9	339.2	262.6
115°	778.3	773.7	755.3	720.6	675.2	619.9	552.5	481.6	409.6	337.0	267.9
117.5°	716.0	712.4	693.7	664.7	625.8	579.0	525.9	467.3	403.6	336.4	273.5
120°	681.0	674.6	659.6	634.3	601.4	560.5	514.4	460.9	400.4	336.4	277.7
122.5°	653.3	646.9	634.3	612.6	584.8	549.0	507.1	455.3	396.7	336.0	281.9
125°	621.0	617.5	606.6	589.9	566.8	535.1	495.4	445.9	390.6	335.3	288.0
127.5°	602.1	598.6	589.5	574.6	551.4	521.4	481.7	434.3	382.4	334.0	293.0
130°	591.1	587.6	578.3	564.0	540.4	509.8	470.7	425.2	377.3	333.6	296.7
132.5°	578.7	575.1	566.4	550.2	526.9	496.4	458.2	415.5	372.7	333.1	299.9
135°	555.3	551.9	542.7	526.5	503.5	474.6	439.6	402.1	365.8	332.3	304.8
137.5°	526.5	522.4	514.8	498.9	477.4	451.3	421.7	390.0	359.8	332.2	307.6
140°	505.8	501.2	493.1	480.5	460.3	436.1	410.2	383.0	356.6	331.8	309.9
142.5°	483.6	480.5	473.3	461.5	443.7	422.7	400.5	376.7	353.9	331.8	311.7
145°	453.3	450.5	444.7	434.9	420.5	404.5	387.1	367.5	349.1	330.6	312.9
147.5°	426.6	425.5	421.1	412.7	402.1	389.4	375.6	360.0	344.9	328.6	313.4
150°	411.3	410.7	407.3	399.8	390.6	380.2	368.7	355.5	341.6	327.2	313.4
152.5°	397.5	396.9	394.9	388.7	380.9	372.3	361.7	350.3	337.9	324.9	312.5
155°	379.6	379.6	377.9	373.3	367.5	360.6	351.9	342.7	332.3	321.4	311.0
157.5°	364.0	364.0	362.9	359.5	355.1	349.5	342.3	334.6	326.8	317.9	309.6
160°	354.3	354.3	353.8	350.2	346.8	342.1	335.9	329.5	322.7	315.1	308.2
162.5°	345.1	345.6	345.0	341.5	339.0	334.8	329.8	324.5	318.9	312.4	306.8
165°	331.2	331.8	332.3	330.1	327.8	324.9	320.8	317.4	312.9	308.2	304.2
167.5°	320.3	320.7	320.8	319.4	318.2	316.5	313.3	310.6	307.3	304.1	301.4
170°	313.4	313.4	314.0	313.4	312.3	310.5	308.2	306.5	303.6	301.2	299.5
172.5°	306.5	307.4	308.0	307.4	306.7	305.5	304.1	302.8	300.3	298.5	297.7
175°	298.4	299.5	300.7	299.5	299.5	299.5	298.4	297.8	296.7	295.5	295.5
177.5°	293.7	294.6	295.5	295.1	295.5	295.1	295.1	294.6	294.2	293.7	293.7
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



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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°	8.9	9.1	8.2	7.5	6.8	6.1	5.6	5.0	5.6	6.1	6.4
90°	8.1	8.1	4.6	4.6	4.0	3.4	1.7	0.6	1.7	3.4	4.0
92.5°	116.3	71.7	42.4	30.4	22.0	14.9	9.6	6.6	9.6	14.9	22.0
95°	216.6	122.1	72.0	47.8	34.0	26.5	20.7	19.0	20.7	26.5	34.0
97.5°	194.7	116.7	78.2	57.9	45.9	39.1	34.1	34.1	34.1	39.1	45.9
100°	183.2	118.1	84.1	65.6	54.7	47.8	43.8	43.8	43.8	47.8	54.7
102.5°	180.0	122.7	91.9	74.4	63.9	57.5	53.9	53.0	53.9	57.5	63.9
105°	181.5	133.6	106.0	89.3	79.0	72.0	69.2	67.4	69.2	72.0	79.0
107.5°	190.0	146.4	121.1	104.6	94.7	87.4	84.4	83.3	84.4	87.4	94.7
110°	196.4	156.1	130.8	115.2	104.8	98.0	95.0	93.9	95.0	98.0	104.8





TEST NUMBER: P332501-840

CATALOG NUMBER: S124DIP-S350D590U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	203.4	165.3	140.9	125.3	115.0	108.6	105.2	104.0	105.2	108.6	115.0
115°	214.3	179.8	156.7	141.2	130.2	124.4	120.4	118.7	120.4	124.4	130.2
117.5°	225.5	193.7	171.8	155.6	145.4	139.1	135.5	133.9	135.5	139.1	145.4
120°	233.3	203.4	181.5	165.3	155.5	149.2	145.2	144.0	145.2	149.2	155.5
122.5°	240.7	212.6	190.7	175.0	164.3	158.4	154.4	153.2	154.4	158.4	164.3
125°	251.8	225.2	204.5	188.3	177.4	171.1	167.6	165.3	167.6	171.1	177.4
127.5°	261.4	237.0	216.9	200.7	189.2	182.1	177.9	176.0	177.9	182.1	189.2
130°	267.3	244.8	225.2	208.5	197.6	188.9	184.3	182.1	184.3	188.9	197.6
132.5°	273.3	251.3	231.7	215.9	204.1	195.9	189.9	188.0	189.9	195.9	204.1
135°	281.1	260.3	241.4	226.4	214.3	204.5	198.7	196.4	198.7	204.5	214.3
137.5°	286.7	267.3	249.5	235.3	222.7	213.4	207.0	204.9	207.0	213.4	222.7
140°	290.3	272.0	254.6	240.8	228.7	218.9	212.6	210.9	212.6	218.9	228.7
142.5°	293.1	276.1	259.2	245.9	234.2	224.9	219.0	217.3	219.0	224.9	234.2
145°	296.1	280.5	265.6	252.9	242.0	233.9	228.1	226.4	228.1	233.9	242.0
147.5°	298.7	285.2	271.1	259.7	250.5	242.3	237.2	236.6	237.2	242.3	250.5
150°	300.1	287.5	274.8	263.9	255.2	248.3	243.7	243.1	243.7	248.3	255.2
152.5°	301.0	289.3	278.0	268.0	260.2	253.8	249.2	249.1	249.2	253.8	260.2
155°	301.8	292.1	282.3	273.7	267.3	261.6	258.1	257.5	258.1	261.6	267.3
157.5°	301.8	294.1	285.7	278.9	273.4	268.9	265.7	265.7	265.7	268.9	273.4
160°	301.8	295.0	288.0	281.7	277.1	273.1	270.7	270.7	270.7	273.1	277.1
162.5°	301.8	295.9	289.4	284.5	280.3	276.7	274.9	275.4	274.9	276.7	280.3
165°	300.7	296.1	290.9	287.5	284.6	281.7	280.5	280.5	280.5	281.7	284.6
167.5°	299.3	296.0	292.2	289.5	287.9	285.7	285.2	285.7	285.2	285.7	287.9
170°	298.4	295.5	292.7	290.9	289.7	288.0	287.5	288.0	287.5	288.0	289.7
172.5°	297.5	295.1	293.1	291.9	291.1	289.8	289.7	290.3	289.7	289.8	291.1
175°	296.1	294.4	293.3	293.3	292.7	292.1	292.1	292.7	292.1	292.1	292.7
177.5°	294.6	293.7	293.3	293.3	293.3	292.8	293.3	293.7	293.3	292.8	293.3
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P332501-840

CATALOG NUMBER: S124DIP-S350D590U840-4F0-1E-UDD-A4

**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°	7.1	7.1	8.5	8.9	9.7	10.9	11.1	13.3	14.2	15.3	17.1
90°	4.6	4.6	8.1	8.1	9.2	10.4	9.8	10.4	10.9	11.5	11.5
92.5°	30.4	42.4	71.7	116.3	160.0	182.7	152.2	113.1	85.1	67.8	56.2
95°	47.8	72.0	122.1	216.6	354.3	469.5	482.7	426.9	337.6	260.3	204.5
97.5°	57.9	78.2	116.7	194.7	331.6	494.5	606.5	630.7	597.5	541.2	481.0
100°	65.6	84.1	118.1	183.2	300.7	463.1	610.7	694.8	706.3	678.0	635.4
102.5°	74.4	91.9	122.7	180.0	279.9	424.0	576.0	691.6	748.7	756.9	739.1
105°	89.3	106.0	133.6	181.5	262.2	377.9	513.3	645.2	744.9	801.9	825.6
107.5°	104.6	121.1	146.4	190.0	258.9	352.1	462.6	579.5	685.5	765.9	817.2
110°	115.2	130.8	156.1	196.4	259.8	343.4	437.3	539.8	639.4	723.0	786.4



TEST NUMBER: P332501-840

CATALOG NUMBER: S124DIP-S350D590U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	125.3	140.9	165.3	203.4	262.6	339.2	422.9	510.8	598.8	677.8	741.1
115°	141.2	156.7	179.8	214.3	267.9	337.0	409.6	481.6	552.5	619.9	675.2
117.5°	155.6	171.8	193.7	225.5	273.5	336.4	403.6	467.3	525.9	579.0	625.8
120°	165.3	181.5	203.4	233.3	277.7	336.4	400.4	460.9	514.4	560.5	601.4
122.5°	175.0	190.7	212.6	240.7	281.9	336.0	396.7	455.3	507.1	549.0	584.8
125°	188.3	204.5	225.2	251.8	288.0	335.3	390.6	445.9	495.4	535.1	566.8
127.5°	200.7	216.9	237.0	261.4	293.0	334.0	382.4	434.3	481.7	521.4	551.4
130°	208.5	225.2	244.8	267.3	296.7	333.6	377.3	425.2	470.7	509.8	540.4
132.5°	215.9	231.7	251.3	273.3	299.9	333.1	372.7	415.5	458.2	496.4	526.9
135°	226.4	241.4	260.3	281.1	304.8	332.3	365.8	402.1	439.6	474.6	503.5
137.5°	235.3	249.5	267.3	286.7	307.6	332.2	359.8	390.0	421.7	451.3	477.4
140°	240.8	254.6	272.0	290.3	309.9	331.8	356.6	383.0	410.2	436.1	460.3
142.5°	245.9	259.2	276.1	293.1	311.7	331.8	353.9	376.7	400.5	422.7	443.7
145°	252.9	265.6	280.5	296.1	312.9	330.6	349.1	367.5	387.1	404.5	420.5
147.5°	259.7	271.1	285.2	298.7	313.4	328.6	344.9	360.0	375.6	389.4	402.1
150°	263.9	274.8	287.5	300.1	313.4	327.2	341.6	355.5	368.7	380.2	390.6
152.5°	268.0	278.0	289.3	301.0	312.5	324.9	337.9	350.3	361.7	372.3	380.9
155°	273.7	282.3	292.1	301.8	311.0	321.4	332.3	342.7	351.9	360.6	367.5
157.5°	278.9	285.7	294.1	301.8	309.6	317.9	326.8	334.6	342.3	349.5	355.1
160°	281.7	288.0	295.0	301.8	308.2	315.1	322.7	329.5	335.9	342.1	346.8
162.5°	284.5	289.4	295.9	301.8	306.8	312.4	318.9	324.5	329.8	334.8	339.0
165°	287.5	290.9	296.1	300.7	304.2	308.2	312.9	317.4	320.8	324.9	327.8
167.5°	289.5	292.2	296.0	299.3	301.4	304.1	307.3	310.6	313.3	316.5	318.2
170°	290.9	292.7	295.5	298.4	299.5	301.2	303.6	306.5	308.2	310.5	312.3
172.5°	291.9	293.1	295.1	297.5	297.7	298.5	300.3	302.8	304.1	305.5	306.7
175°	293.3	293.3	294.4	296.1	295.5	295.5	296.7	297.8	298.4	299.5	299.5
177.5°	293.3	293.3	293.7	294.6	293.7	293.7	294.2	294.6	295.1	295.1	295.5
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P332501-840

CATALOG NUMBER: S124DIP-S350D590U840-4F0-1E-UDD-A4

**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°	17.7	18.0	18.5	18.9	18.5	18.0	17.7	17.1	15.3	14.2	13.3
90°	12.1	12.6	12.1	12.1	12.1	12.6	12.1	11.5	11.5	10.9	10.4
92.5°	49.4	46.4	44.3	44.3	44.3	46.4	49.4	56.2	67.8	85.1	113.1
95°	176.3	158.4	148.0	140.6	148.0	158.4	176.3	204.5	260.3	337.6	426.9
97.5°	439.7	405.0	387.7	375.7	387.7	405.0	439.7	481.0	541.2	597.5	630.7
100°	585.3	550.2	532.9	528.3	532.9	550.2	585.3	635.4	678.0	706.3	694.8
102.5°	708.3	682.9	664.7	661.0	664.7	682.9	708.3	739.1	756.9	748.7	691.6
105°	826.7	822.0	814.0	810.5	814.0	822.0	826.7	825.6	801.9	744.9	645.2
107.5°	845.7	858.8	864.5	866.1	864.5	858.8	845.7	817.2	765.9	685.5	579.5
110°	827.3	851.4	861.8	867.0	861.8	851.4	827.3	786.4	723.0	639.4	539.8



TEST NUMBER: P332501-840

CATALOG NUMBER: S124DIP-S350D590U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	787.6	816.9	831.4	839.8	831.4	816.9	787.6	741.1	677.8	598.8	510.8
115°	720.6	755.3	773.7	778.3	773.7	755.3	720.6	675.2	619.9	552.5	481.6
117.5°	664.7	693.7	712.4	716.0	712.4	693.7	664.7	625.8	579.0	525.9	467.3
120°	634.3	659.6	674.6	681.0	674.6	659.6	634.3	601.4	560.5	514.4	460.9
122.5°	612.6	634.3	646.9	653.3	646.9	634.3	612.6	584.8	549.0	507.1	455.3
125°	589.9	606.6	617.5	621.0	617.5	606.6	589.9	566.8	535.1	495.4	445.9
127.5°	574.6	589.5	598.6	602.1	598.6	589.5	574.6	551.4	521.4	481.7	434.3
130°	564.0	578.3	587.6	591.1	587.6	578.3	564.0	540.4	509.8	470.7	425.2
132.5°	550.2	566.4	575.1	578.7	575.1	566.4	550.2	526.9	496.4	458.2	415.5
135°	526.5	542.7	551.9	555.3	551.9	542.7	526.5	503.5	474.6	439.6	402.1
137.5°	498.9	514.8	522.4	526.5	522.4	514.8	498.9	477.4	451.3	421.7	390.0
140°	480.5	493.1	501.2	505.8	501.2	493.1	480.5	460.3	436.1	410.2	383.0
142.5°	461.5	473.3	480.5	483.6	480.5	473.3	461.5	443.7	422.7	400.5	376.7
145°	434.9	444.7	450.5	453.3	450.5	444.7	434.9	420.5	404.5	387.1	367.5
147.5°	412.7	421.1	425.5	426.6	425.5	421.1	412.7	402.1	389.4	375.6	360.0
150°	399.8	407.3	410.7	411.3	410.7	407.3	399.8	390.6	380.2	368.7	355.5
152.5°	388.7	394.9	396.9	397.5	396.9	394.9	388.7	380.9	372.3	361.7	350.3
155°	373.3	377.9	379.6	379.6	379.6	377.9	373.3	367.5	360.6	351.9	342.7
157.5°	359.5	362.9	364.0	364.0	364.0	362.9	359.5	355.1	349.5	342.3	334.6
160°	350.2	353.8	354.3	354.3	354.3	353.8	350.2	346.8	342.1	335.9	329.5
162.5°	341.5	345.0	345.6	345.1	345.6	345.0	341.5	339.0	334.8	329.8	324.5
165°	330.1	332.3	331.8	331.2	331.8	332.3	330.1	327.8	324.9	320.8	317.4
167.5°	319.4	320.8	320.7	320.3	320.7	320.8	319.4	318.2	316.5	313.3	310.6
170°	313.4	314.0	313.4	313.4	313.4	314.0	313.4	312.3	310.5	308.2	306.5
172.5°	307.4	308.0	307.4	306.5	307.4	308.0	307.4	306.7	305.5	304.1	302.8
175°	299.5	300.7	299.5	298.4	299.5	300.7	299.5	299.5	299.5	298.4	297.8
177.5°	295.1	295.5	294.6	293.7	294.6	295.5	295.1	295.5	295.1	295.1	294.6
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P332501-840

CATALOG NUMBER: S124DIP-S350D590U840-4F0-1E-UDD-A4

**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°	11.1	10.9	9.7	8.9	8.5	7.1	7.1	6.4	6.1	5.6	5.0
90°	9.8	10.4	9.2	8.1	8.1	4.6	4.6	4.0	3.4	1.7	0.6
92.5°	152.2	182.7	160.0	116.3	71.7	42.4	30.4	22.0	14.9	9.6	6.6
95°	482.7	469.5	354.3	216.6	122.1	72.0	47.8	34.0	26.5	20.7	19.0
97.5°	606.5	494.5	331.6	194.7	116.7	78.2	57.9	45.9	39.1	34.1	34.1
100°	610.7	463.1	300.7	183.2	118.1	84.1	65.6	54.7	47.8	43.8	43.8
102.5°	576.0	424.0	279.9	180.0	122.7	91.9	74.4	63.9	57.5	53.9	53.0
105°	513.3	377.9	262.2	181.5	133.6	106.0	89.3	79.0	72.0	69.2	67.4
107.5°	462.6	352.1	258.9	190.0	146.4	121.1	104.6	94.7	87.4	84.4	83.3
110°	437.3	343.4	259.8	196.4	156.1	130.8	115.2	104.8	98.0	95.0	93.9



TEST NUMBER: P332501-840

CATALOG NUMBER: S124DIP-S350D590U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	422.9	339.2	262.6	203.4	165.3	140.9	125.3	115.0	108.6	105.2	104.0
115°	409.6	337.0	267.9	214.3	179.8	156.7	141.2	130.2	124.4	120.4	118.7
117.5°	403.6	336.4	273.5	225.5	193.7	171.8	155.6	145.4	139.1	135.5	133.9
120°	400.4	336.4	277.7	233.3	203.4	181.5	165.3	155.5	149.2	145.2	144.0
122.5°	396.7	336.0	281.9	240.7	212.6	190.7	175.0	164.3	158.4	154.4	153.2
125°	390.6	335.3	288.0	251.8	225.2	204.5	188.3	177.4	171.1	167.6	165.3
127.5°	382.4	334.0	293.0	261.4	237.0	216.9	200.7	189.2	182.1	177.9	176.0
130°	377.3	333.6	296.7	267.3	244.8	225.2	208.5	197.6	188.9	184.3	182.1
132.5°	372.7	333.1	299.9	273.3	251.3	231.7	215.9	204.1	195.9	189.9	188.0
135°	365.8	332.3	304.8	281.1	260.3	241.4	226.4	214.3	204.5	198.7	196.4
137.5°	359.8	332.2	307.6	286.7	267.3	249.5	235.3	222.7	213.4	207.0	204.9
140°	356.6	331.8	309.9	290.3	272.0	254.6	240.8	228.7	218.9	212.6	210.9
142.5°	353.9	331.8	311.7	293.1	276.1	259.2	245.9	234.2	224.9	219.0	217.3
145°	349.1	330.6	312.9	296.1	280.5	265.6	252.9	242.0	233.9	228.1	226.4
147.5°	344.9	328.6	313.4	298.7	285.2	271.1	259.7	250.5	242.3	237.2	236.6
150°	341.6	327.2	313.4	300.1	287.5	274.8	263.9	255.2	248.3	243.7	243.1
152.5°	337.9	324.9	312.5	301.0	289.3	278.0	268.0	260.2	253.8	249.2	249.1
155°	332.3	321.4	311.0	301.8	292.1	282.3	273.7	267.3	261.6	258.1	257.5
157.5°	326.8	317.9	309.6	301.8	294.1	285.7	278.9	273.4	268.9	265.7	265.7
160°	322.7	315.1	308.2	301.8	295.0	288.0	281.7	277.1	273.1	270.7	270.7
162.5°	318.9	312.4	306.8	301.8	295.9	289.4	284.5	280.3	276.7	274.9	275.4
165°	312.9	308.2	304.2	300.7	296.1	290.9	287.5	284.6	281.7	280.5	280.5
167.5°	307.3	304.1	301.4	299.3	296.0	292.2	289.5	287.9	285.7	285.2	285.7
170°	303.6	301.2	299.5	298.4	295.5	292.7	290.9	289.7	288.0	287.5	288.0
172.5°	300.3	298.5	297.7	297.5	295.1	293.1	291.9	291.1	289.8	289.7	290.3
175°	296.7	295.5	295.5	296.1	294.4	293.3	293.3	292.7	292.1	292.1	292.7
177.5°	294.2	293.7	293.7	294.6	293.7	293.3	293.3	293.3	292.8	293.3	293.7
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P332501-840

CATALOG NUMBER: S124DIP-S350D590U840-4F0-1E-UDD-A4

**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°	5.6	6.1	6.8	7.5	8.2	9.1	8.9	9.1	8.6	8.3	7.6
90°	1.7	3.4	4.0	4.6	4.6	8.1	8.1	9.2	10.4	9.8	10.4
92.5°	9.6	14.9	22.0	30.4	42.4	71.7	116.3	160.0	182.7	152.2	113.1
95°	20.7	26.5	34.0	47.8	72.0	122.1	216.6	354.3	469.5	482.7	426.9
97.5°	34.1	39.1	45.9	57.9	78.2	116.7	194.7	331.6	494.5	606.5	630.7
100°	43.8	47.8	54.7	65.6	84.1	118.1	183.2	300.7	463.1	610.7	694.8
102.5°	53.9	57.5	63.9	74.4	91.9	122.7	180.0	279.9	424.0	576.0	691.6
105°	69.2	72.0	79.0	89.3	106.0	133.6	181.5	262.2	377.9	513.3	645.2
107.5°	84.4	87.4	94.7	104.6	121.1	146.4	190.0	258.9	352.1	462.6	579.5
110°	95.0	98.0	104.8	115.2	130.8	156.1	196.4	259.8	343.4	437.3	539.8





TEST NUMBER: P332501-840

CATALOG NUMBER: S124DIP-S350D590U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	105.2	108.6	115.0	125.3	140.9	165.3	203.4	262.6	339.2	422.9	510.8
115°	120.4	124.4	130.2	141.2	156.7	179.8	214.3	267.9	337.0	409.6	481.6
117.5°	135.5	139.1	145.4	155.6	171.8	193.7	225.5	273.5	336.4	403.6	467.3
120°	145.2	149.2	155.5	165.3	181.5	203.4	233.3	277.7	336.4	400.4	460.9
122.5°	154.4	158.4	164.3	175.0	190.7	212.6	240.7	281.9	336.0	396.7	455.3
125°	167.6	171.1	177.4	188.3	204.5	225.2	251.8	288.0	335.3	390.6	445.9
127.5°	177.9	182.1	189.2	200.7	216.9	237.0	261.4	293.0	334.0	382.4	434.3
130°	184.3	188.9	197.6	208.5	225.2	244.8	267.3	296.7	333.6	377.3	425.2
132.5°	189.9	195.9	204.1	215.9	231.7	251.3	273.3	299.9	333.1	372.7	415.5
135°	198.7	204.5	214.3	226.4	241.4	260.3	281.1	304.8	332.3	365.8	402.1
137.5°	207.0	213.4	222.7	235.3	249.5	267.3	286.7	307.6	332.2	359.8	390.0
140°	212.6	218.9	228.7	240.8	254.6	272.0	290.3	309.9	331.8	356.6	383.0
142.5°	219.0	224.9	234.2	245.9	259.2	276.1	293.1	311.7	331.8	353.9	376.7
145°	228.1	233.9	242.0	252.9	265.6	280.5	296.1	312.9	330.6	349.1	367.5
147.5°	237.2	242.3	250.5	259.7	271.1	285.2	298.7	313.4	328.6	344.9	360.0
150°	243.7	248.3	255.2	263.9	274.8	287.5	300.1	313.4	327.2	341.6	355.5
152.5°	249.2	253.8	260.2	268.0	278.0	289.3	301.0	312.5	324.9	337.9	350.3
155°	258.1	261.6	267.3	273.7	282.3	292.1	301.8	311.0	321.4	332.3	342.7
157.5°	265.7	268.9	273.4	278.9	285.7	294.1	301.8	309.6	317.9	326.8	334.6
160°	270.7	273.1	277.1	281.7	288.0	295.0	301.8	308.2	315.1	322.7	329.5
162.5°	274.9	276.7	280.3	284.5	289.4	295.9	301.8	306.8	312.4	318.9	324.5
165°	280.5	281.7	284.6	287.5	290.9	296.1	300.7	304.2	308.2	312.9	317.4
167.5°	285.2	285.7	287.9	289.5	292.2	296.0	299.3	301.4	304.1	307.3	310.6
170°	287.5	288.0	289.7	290.9	292.7	295.5	298.4	299.5	301.2	303.6	306.5
172.5°	289.7	289.8	291.1	291.9	293.1	295.1	297.5	297.7	298.5	300.3	302.8
175°	292.1	292.1	292.7	293.3	293.3	294.4	296.1	295.5	295.5	296.7	297.8
177.5°	293.3	292.8	293.3	293.3	293.3	293.7	294.6	293.7	293.7	294.2	294.6
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



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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°	7.9	7.9	7.7	7.4	7.3	7.2	6.7
90°	10.9	11.5	11.5	12.1	12.6	12.1	12.1
92.5°	85.1	67.8	56.2	49.4	46.4	44.3	44.3
95°	337.6	260.3	204.5	176.3	158.4	148.0	140.6
97.5°	597.5	541.2	481.0	439.7	405.0	387.7	375.7
100°	706.3	678.0	635.4	585.3	550.2	532.9	528.3
102.5°	748.7	756.9	739.1	708.3	682.9	664.7	661.0
105°	744.9	801.9	825.6	826.7	822.0	814.0	810.5
107.5°	685.5	765.9	817.2	845.7	858.8	864.5	866.1
110°	639.4	723.0	786.4	827.3	851.4	861.8	867.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	598.8	677.8	741.1	787.6	816.9	831.4	839.8
115°	552.5	619.9	675.2	720.6	755.3	773.7	778.3
117.5°	525.9	579.0	625.8	664.7	693.7	712.4	716.0
120°	514.4	560.5	601.4	634.3	659.6	674.6	681.0
122.5°	507.1	549.0	584.8	612.6	634.3	646.9	653.3
125°	495.4	535.1	566.8	589.9	606.6	617.5	621.0
127.5°	481.7	521.4	551.4	574.6	589.5	598.6	602.1
130°	470.7	509.8	540.4	564.0	578.3	587.6	591.1
132.5°	458.2	496.4	526.9	550.2	566.4	575.1	578.7
135°	439.6	474.6	503.5	526.5	542.7	551.9	555.3
137.5°	421.7	451.3	477.4	498.9	514.8	522.4	526.5
140°	410.2	436.1	460.3	480.5	493.1	501.2	505.8
142.5°	400.5	422.7	443.7	461.5	473.3	480.5	483.6
145°	387.1	404.5	420.5	434.9	444.7	450.5	453.3
147.5°	375.6	389.4	402.1	412.7	421.1	425.5	426.6
150°	368.7	380.2	390.6	399.8	407.3	410.7	411.3
152.5°	361.7	372.3	380.9	388.7	394.9	396.9	397.5
155°	351.9	360.6	367.5	373.3	377.9	379.6	379.6
157.5°	342.3	349.5	355.1	359.5	362.9	364.0	364.0
160°	335.9	342.1	346.8	350.2	353.8	354.3	354.3
162.5°	329.8	334.8	339.0	341.5	345.0	345.6	345.1
165°	320.8	324.9	327.8	330.1	332.3	331.8	331.2
167.5°	313.3	316.5	318.2	319.4	320.8	320.7	320.3
170°	308.2	310.5	312.3	313.4	314.0	313.4	313.4
172.5°	304.1	305.5	306.7	307.4	308.0	307.4	306.5
175°	298.4	299.5	299.5	299.5	300.7	299.5	298.4
177.5°	295.1	295.1	295.5	295.1	295.5	294.6	293.7
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3

(END OF REPORT)