

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: P332519-830

Luminaire Tested: **S124DIP-S350D1035U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332519-830  
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-S350D1035U830-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4971.6 lumens  
Efficiency: N/A  
Efficacy: 133.3 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

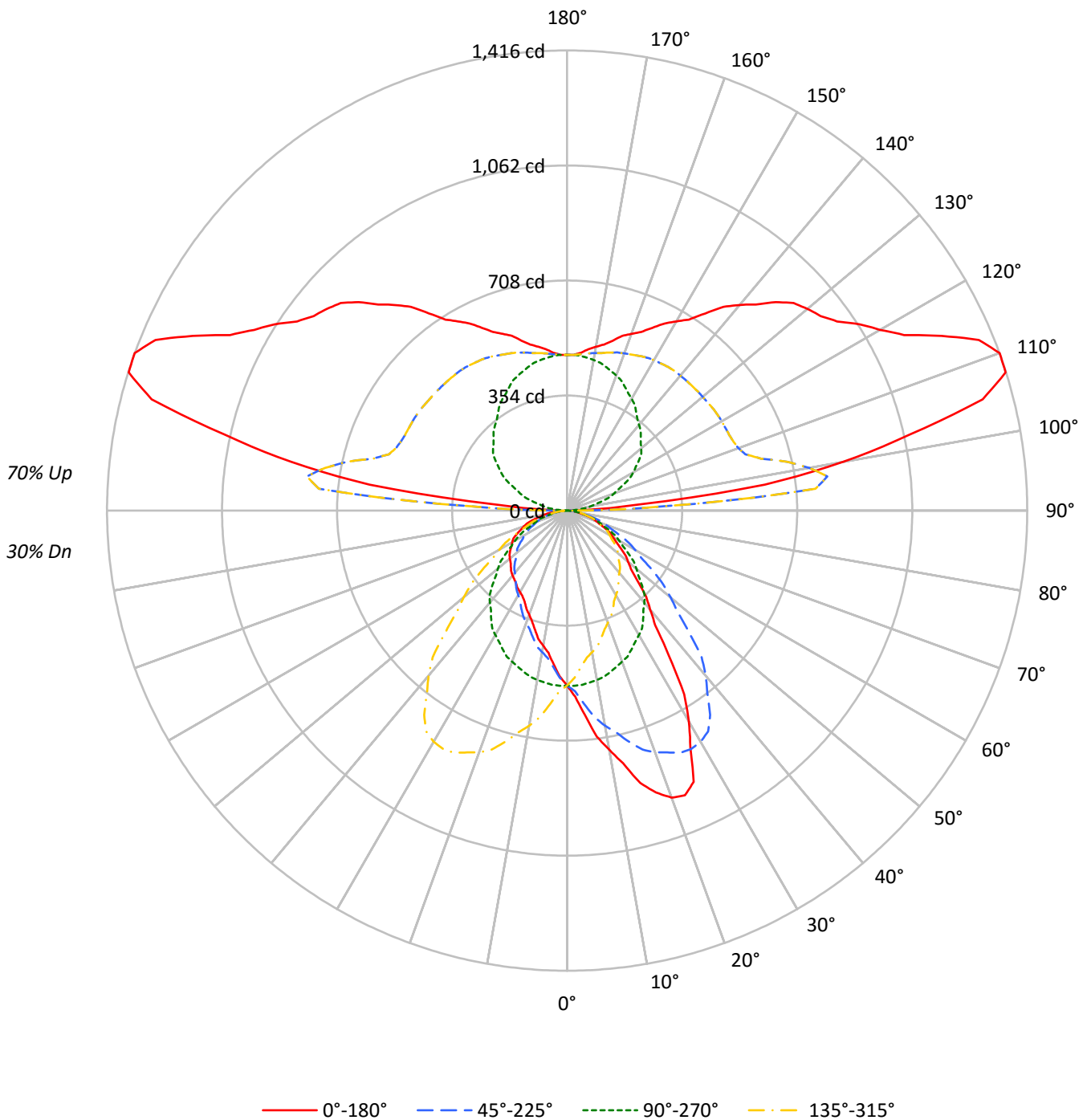
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0	
RCR																						
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30				30
1	93	89	86	82	84	80	77	74	63	61	59	48	46	45	33	33	32	25				25
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	28	27	22				22
3	78	69	62	56	69	62	56	51	49	45	42	37	35	32	26	25	23	18				18
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	16				16
5	65	54	46	41	58	49	42	37	39	34	30	30	27	24	21	19	18	14				14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	19	17	15	12				12
7	55	44	36	31	50	39	33	28	32	27	23	24	21	18	18	15	14	11				11
8	51	39	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12	10				10
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	15	13	11	9				9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8				8

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

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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.5	1.1
10°-20°	161.7	3.3
20°-30°	256.4	5.2
30°-40°	285.4	5.7
40°-50°	259.8	5.2
50°-60°	212.3	4.3
60°-70°	151.5	3.0
70°-80°	83.4	1.7
80°-90°	25.4	0.5
90°-100°	345.9	7.0
100°-110°	720.0	14.5
110°-120°	644.9	13.0
120°-130°	542.4	10.9
130°-140°	452.3	9.1
140°-150°	345.5	7.0
150°-160°	242.9	4.9
160°-170°	142.9	2.9
170°-180°	46.5	0.9
0°-30°	470.6	9.5
0°-40°	755.9	15.2
0°-60°	1227.9	24.7
0°-90°	1488.4	29.9
90°-120°	1710.8	34.4
90°-150°	3051.1	61.4
90°-180°	3483.0	70.1
0°-180°	4971.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	538	538	538	538	538	
5°	632	538	475	538	632	64
15°	868	514	381	514	868	245
25°	921	470	309	470	921	406
35°	545	408	274	408	545	346
45°	306	326	245	326	306	241
55°	200	229	214	229	200	181
65°	128	142	171	142	128	127
75°	64	69	106	69	64	68
85°	13	14	33	14	13	17
90°	20	1	20	1	20	16
95°	230	31	230	31	230	356
105°	1324	110	1324	110	1324	1309
115°	1271	194	1271	194	1271	1262
125°	1014	270	1014	270	1014	922
135°	907	321	907	321	907	700
145°	741	370	741	370	741	469
155°	620	421	620	421	620	289
165°	541	458	541	458	541	155
175°	487	478	487	478	487	47
180°	479	479	479	479	479	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	573.1	573.0	571.2	570.8	569.6	568.0	567.6	564.7	559.0	556.3	555.6
5°	631.7	636.2	630.4	629.2	628.6	621.2	617.5	613.0	602.8	596.7	592.0
7.5°	701.7	702.2	699.6	697.7	691.9	685.5	675.9	665.6	653.4	640.7	631.1
10°	747.7	749.5	746.6	746.2	734.8	727.6	713.4	701.3	687.5	672.1	658.1
12.5°	796.3	793.8	792.3	782.8	780.6	767.6	751.0	738.7	717.3	699.6	680.9
15°	867.7	862.8	859.7	846.6	840.1	822.0	804.4	790.8	762.9	736.3	716.2
17.5°	909.6	914.5	907.4	901.9	885.2	872.5	854.5	826.0	804.2	771.2	745.8
20°	940.0	940.5	936.4	930.9	917.8	901.6	882.0	850.8	824.7	791.9	757.1
22.5°	948.2	948.3	946.6	941.4	931.4	918.4	898.6	872.5	840.9	805.3	770.4
25°	921.2	920.4	922.4	928.2	924.4	920.4	909.0	889.6	860.2	822.5	784.9
27.5°	821.1	827.4	838.7	852.9	866.7	877.1	880.1	876.1	857.9	826.9	787.6
30°	749.0	756.7	765.2	779.4	807.1	822.9	840.3	853.5	846.1	821.3	784.8
32.5°	669.9	671.8	684.3	700.5	725.9	756.3	783.9	810.7	819.5	806.5	776.0
35°	544.7	547.9	561.5	577.5	608.5	645.8	687.3	724.3	754.9	767.1	751.5
37.5°	444.5	453.5	463.1	480.3	507.7	541.2	584.3	632.3	677.8	708.3	713.5
40°	397.1	402.7	409.5	422.7	445.9	478.9	515.9	570.8	619.3	663.0	677.2
42.5°	359.6	362.9	367.1	379.0	396.6	429.5	463.4	511.6	560.2	612.5	636.4
45°	305.6	309.0	316.1	323.0	336.4	359.1	390.6	430.3	479.2	529.5	573.7
47.5°	266.6	268.7	273.0	280.4	291.8	306.8	332.3	365.5	410.8	459.8	506.8
50°	244.5	246.3	249.6	256.3	265.0	278.4	299.4	330.4	365.8	415.1	461.3
52.5°	227.0	227.7	230.2	234.7	241.7	252.9	270.1	295.8	328.8	372.7	418.7
55°	199.9	200.8	203.0	206.3	212.4	219.5	232.6	251.8	280.6	318.8	358.7
57.5°	177.6	178.2	180.0	181.3	186.3	192.1	202.3	215.9	237.7	270.1	305.8
60°	163.2	162.9	165.0	166.2	169.6	174.5	182.3	195.4	214.3	240.4	273.2
62.5°	149.4	148.7	150.6	152.1	154.0	158.2	164.6	174.8	190.3	213.9	242.2
65°	128.5	127.6	128.8	130.5	132.2	134.5	139.2	148.4	160.6	177.6	199.2
67.5°	107.5	108.5	108.7	109.5	110.6	113.6	116.8	123.3	132.0	145.5	163.8
70°	95.0	95.3	96.1	96.1	96.8	99.5	102.2	105.9	114.4	127.0	141.9
72.5°	82.6	83.5	83.1	83.8	84.4	86.1	88.0	91.7	98.9	108.2	120.8
75°	64.3	64.9	64.9	65.1	65.8	66.4	68.1	70.7	75.9	82.8	91.4
77.5°	46.8	46.9	47.2	48.1	48.1	49.1	50.2	52.4	55.0	59.7	65.0
80°	36.1	36.6	36.4	36.9	36.9	37.7	38.2	40.8	41.9	45.1	49.3
82.5°	26.5	27.0	26.9	27.5	27.9	28.1	28.7	29.8	30.9	33.6	35.3
85°	13.4	13.9	13.4	13.9	14.5	14.7	15.4	15.6	16.5	17.2	18.8
87.5°	7.9	8.4	8.6	8.6	8.8	9.0	9.0	8.6	9.0	9.4	9.8
90°	19.8	19.8	20.7	19.8	18.9	18.9	17.9	17.0	16.0	17.0	15.1
92.5°	72.5	72.5	75.7	80.8	91.8	110.7	139.1	184.8	248.6	298.5	261.2
95°	229.6	241.9	258.7	287.9	334.0	425.3	551.4	697.2	788.5	766.9	578.7
97.5°	613.7	633.3	661.5	718.1	785.7	883.9	975.9	1030.2	990.6	807.7	541.6
100°	862.9	870.3	898.6	956.0	1037.8	1107.5	1153.6	1134.8	997.4	756.5	491.2
102.5°	1079.7	1085.7	1115.4	1157.0	1207.2	1236.2	1222.9	1129.5	940.9	692.6	457.3
105°	1323.9	1329.6	1342.7	1350.3	1348.4	1309.8	1216.6	1053.9	838.4	617.3	428.1
107.5°	1414.7	1412.2	1402.8	1381.3	1334.8	1250.9	1119.7	946.4	755.5	575.1	422.8
110°	1416.2	1407.7	1390.7	1351.2	1284.4	1180.9	1044.4	881.7	714.2	560.8	424.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1371.7	1358.0	1334.3	1286.5	1210.6	1107.1	978.2	834.2	690.9	554.0	428.9
115°	1271.2	1263.7	1233.6	1177.1	1102.8	1012.5	902.4	786.6	669.0	550.4	437.5
117.5°	1169.4	1163.6	1133.1	1085.7	1022.3	945.7	859.1	763.3	659.2	549.5	446.8
120°	1112.2	1101.8	1077.4	1035.9	982.3	915.6	840.3	752.7	653.9	549.5	453.6
122.5°	1067.1	1056.7	1035.9	1000.6	955.3	896.7	828.2	743.8	647.9	548.7	460.3
125°	1014.4	1008.7	990.8	963.6	925.9	874.1	809.2	728.3	638.0	547.6	470.5
127.5°	983.4	977.8	962.8	938.5	900.7	851.6	786.8	709.5	624.6	545.5	478.5
130°	965.4	959.8	944.7	921.1	882.6	832.7	768.7	694.5	616.3	544.8	484.6
132.5°	945.1	939.4	925.1	898.6	860.8	810.9	748.5	678.6	608.8	544.0	489.8
135°	907.1	901.4	886.4	860.1	822.4	775.3	717.9	656.8	597.5	542.9	497.8
137.5°	860.1	853.3	840.8	814.8	779.7	737.2	688.8	637.1	587.7	542.7	502.5
140°	826.1	818.6	805.5	784.8	751.8	712.3	670.0	625.8	582.5	542.0	506.2
142.5°	790.0	784.8	773.1	753.8	724.7	690.5	654.1	615.2	578.0	542.0	509.3
145°	740.6	735.8	726.4	710.4	686.9	660.5	632.4	600.3	570.2	540.1	511.0
147.5°	696.6	695.0	687.9	674.1	656.8	636.1	613.5	588.1	563.3	536.7	511.9
150°	671.8	670.9	665.2	653.0	638.0	621.0	602.2	580.6	558.0	534.4	511.9
152.5°	649.2	648.3	644.9	635.0	622.2	608.2	590.9	572.3	552.0	530.7	510.4
155°	620.1	620.1	617.3	609.7	600.3	589.0	575.0	559.9	542.9	525.1	508.1
157.5°	594.5	594.5	592.8	587.1	580.0	571.0	559.1	546.5	533.7	519.2	505.7
160°	578.7	578.7	577.8	572.1	566.5	558.9	548.6	538.2	527.0	514.7	503.4
162.5°	563.6	564.4	563.5	557.8	553.6	546.9	538.8	529.9	520.9	510.2	501.1
165°	541.0	542.0	542.9	539.1	535.4	530.7	524.1	518.5	511.0	503.4	496.8
167.5°	523.2	524.0	524.1	521.7	519.8	517.0	511.7	507.4	501.9	496.6	492.3
170°	511.9	511.9	512.8	511.9	510.0	507.2	503.4	500.6	495.9	492.1	489.3
172.5°	500.6	502.1	503.0	502.1	501.0	498.9	496.6	494.6	490.6	487.6	486.3
175°	487.4	489.3	491.2	489.3	489.3	489.3	487.4	486.4	484.6	482.7	482.7
177.5°	479.7	481.2	482.7	481.9	482.7	481.9	481.9	481.2	480.4	479.7	479.7
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	555.8	553.3	551.5	550.1	546.2	543.8	542.1	539.6	536.7	533.7	529.9
5°	587.3	579.8	574.2	565.7	557.7	551.0	544.0	537.8	530.3	522.0	515.9
7.5°	620.5	609.2	594.7	582.2	568.1	555.8	544.9	533.7	522.0	510.6	500.2
10°	641.6	627.1	611.0	592.0	574.2	558.4	543.7	529.3	515.5	501.7	489.8
12.5°	664.2	646.1	622.4	600.2	580.2	559.0	541.3	523.8	507.1	492.6	478.8
15°	694.7	668.5	641.1	611.4	585.1	560.3	536.0	514.0	495.2	476.0	462.6
17.5°	713.3	681.0	649.7	618.7	586.8	555.5	529.3	503.9	480.4	461.4	444.5
20°	725.7	693.5	654.5	623.5	585.6	553.5	523.1	494.7	470.2	450.0	432.5
22.5°	736.3	699.3	660.2	619.3	581.6	547.5	514.3	485.9	460.8	439.4	422.7
25°	742.2	699.6	657.1	616.5	573.7	533.4	503.2	469.8	443.0	420.5	402.7
27.5°	742.8	697.2	649.2	604.2	560.0	522.4	484.4	454.4	426.7	402.8	385.7
30°	740.8	693.3	641.8	593.0	548.6	507.7	474.7	442.1	413.8	390.1	372.3
32.5°	734.5	685.1	632.2	580.4	534.4	494.5	460.4	429.4	401.8	378.5	359.8
35°	716.5	667.6	611.2	557.4	510.4	470.0	439.2	407.7	380.1	358.1	340.0
37.5°	688.2	644.1	586.7	531.1	484.8	444.3	413.8	385.4	360.4	338.0	319.5
40°	663.6	624.8	567.2	513.0	463.1	424.5	396.0	369.9	345.1	323.9	306.2
42.5°	635.3	601.4	548.4	491.0	442.7	404.0	376.2	352.7	329.4	309.8	292.2
45°	584.7	562.3	512.4	459.3	409.1	372.5	346.0	325.5	305.9	286.6	271.9
47.5°	526.5	515.4	473.3	422.9	375.3	339.2	316.2	297.3	280.0	263.8	250.8
50°	487.4	482.0	445.7	397.1	351.6	317.6	294.5	278.1	263.4	249.2	236.9
52.5°	448.8	448.7	415.8	371.4	329.2	296.6	273.5	258.4	245.6	234.0	223.0
55°	389.9	396.2	370.5	330.8	293.1	263.6	242.9	229.3	220.4	210.8	202.6
57.5°	335.8	346.2	325.0	290.0	258.5	231.5	213.4	203.2	193.7	187.8	181.8
60°	300.5	310.3	293.8	264.4	234.7	211.5	194.3	185.1	176.9	172.9	168.6
62.5°	269.1	277.8	265.6	238.3	212.5	190.2	175.7	166.9	161.4	157.0	154.2
65°	224.2	231.6	221.0	201.2	179.1	161.3	149.5	142.5	137.2	135.4	132.2
67.5°	181.3	187.9	182.3	165.4	147.7	134.1	124.9	118.3	115.1	113.6	111.3
70°	155.7	162.4	156.4	141.7	128.0	116.7	107.9	104.2	100.9	100.2	97.1
72.5°	134.1	138.6	132.6	121.1	109.5	99.9	93.1	89.2	87.5	86.2	84.5
75°	100.6	104.6	100.6	91.7	83.4	76.7	71.0	69.4	67.4	66.7	65.6
77.5°	71.2	74.6	71.6	66.1	59.9	54.7	51.6	49.6	49.1	48.0	48.5
80°	54.4	56.6	53.7	50.0	45.1	41.5	39.3	38.2	36.9	36.4	37.2
82.5°	39.1	40.1	38.5	36.0	32.4	30.1	28.6	27.2	27.0	27.1	27.1
85°	20.3	20.1	19.9	17.6	16.5	15.0	14.0	13.9	13.6	14.0	14.5
87.5°	9.4	9.6	8.3	7.5	6.9	6.1	5.4	4.8	5.4	6.1	6.5
90°	13.2	13.2	7.5	7.5	6.6	5.7	2.8	0.9	2.8	5.7	6.6
92.5°	190.1	117.1	69.3	49.7	35.9	24.5	15.6	10.7	15.6	24.5	35.9
95°	353.8	199.4	117.6	78.1	55.5	43.3	33.8	31.0	33.8	43.3	55.5
97.5°	318.0	190.7	127.6	94.4	75.1	63.8	55.7	55.7	55.7	63.8	75.1
100°	299.3	192.9	137.4	107.3	89.4	78.1	71.5	71.5	71.5	78.1	89.4
102.5°	294.0	200.4	150.1	121.6	104.4	93.9	88.0	86.5	88.0	93.9	104.4
105°	296.4	218.3	173.1	145.8	128.9	117.6	112.9	110.1	112.9	117.6	128.9
107.5°	310.3	239.2	197.7	170.9	154.7	142.6	138.0	136.1	138.0	142.6	154.7
110°	320.8	255.0	213.6	188.2	171.3	159.9	155.2	153.4	155.2	159.9	171.3





TEST NUMBER: P332519-830

CATALOG NUMBER: S124DIP-S350D1035U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	332.2	270.0	230.2	204.7	187.8	177.3	171.8	169.9	171.8	177.3	187.8
115°	350.1	293.6	255.9	230.5	212.6	203.2	196.6	193.9	196.6	203.2	212.6
117.5°	368.3	316.3	280.6	254.2	237.5	227.2	221.3	218.7	221.3	227.2	237.5
120°	381.1	332.2	296.4	270.0	254.0	243.7	237.1	235.3	237.1	243.7	254.0
122.5°	393.1	347.2	311.4	285.9	268.3	258.7	252.1	250.3	252.1	258.7	268.3
125°	411.2	367.9	334.0	307.6	289.8	279.5	273.8	270.0	273.8	279.5	289.8
127.5°	426.8	387.1	354.4	327.8	309.2	297.4	290.6	287.6	290.6	297.4	309.2
130°	436.6	399.9	367.9	340.6	322.7	308.6	301.1	297.4	301.1	308.6	322.7
132.5°	446.4	410.5	378.4	352.7	333.3	319.9	310.1	307.1	310.1	319.9	333.3
135°	459.2	425.3	394.3	369.8	350.1	334.0	324.6	320.8	324.6	334.0	350.1
137.5°	468.3	436.6	407.6	384.3	363.7	348.6	338.2	334.6	338.2	348.6	363.7
140°	474.2	444.1	415.9	393.3	373.5	357.6	347.2	344.4	347.2	357.6	373.5
142.5°	478.7	450.9	423.4	401.6	382.6	367.3	357.8	355.0	357.8	367.3	382.6
145°	483.6	458.3	433.8	413.1	395.2	382.0	372.6	369.8	372.6	382.0	395.2
147.5°	488.0	465.8	442.8	424.1	409.3	395.8	387.5	386.5	387.5	395.8	409.3
150°	490.2	469.6	448.8	430.9	416.9	405.6	398.0	397.1	398.0	405.6	416.9
152.5°	491.7	472.6	454.1	437.7	425.1	414.6	407.1	406.9	407.1	414.6	425.1
155°	493.0	477.0	461.1	447.0	436.6	427.2	421.5	420.6	421.5	427.2	436.6
157.5°	493.0	480.2	466.7	455.6	446.6	439.2	433.9	433.9	433.9	439.2	446.6
160°	493.0	481.7	470.5	460.1	452.6	446.0	442.2	442.2	442.2	446.0	452.6
162.5°	493.0	483.2	472.8	464.7	457.9	452.0	449.0	449.8	449.0	452.0	457.9
165°	491.2	483.6	475.1	469.6	464.9	460.1	458.3	458.3	458.3	460.1	464.9
167.5°	488.9	483.4	477.2	473.0	470.3	466.7	465.8	466.7	465.8	466.7	470.3
170°	487.4	482.7	478.0	475.1	473.3	470.5	469.6	470.5	469.6	470.5	473.3
172.5°	485.9	481.9	478.7	476.6	475.5	473.4	473.3	474.2	473.3	473.4	475.5
175°	483.6	480.8	478.9	478.9	478.0	477.0	477.0	478.0	477.0	477.0	478.0
177.5°	481.2	479.7	478.9	478.9	478.9	478.2	478.9	479.7	478.9	478.2	478.9
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



TEST NUMBER: P332519-830

CATALOG NUMBER: S124DIP-S350D1035U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	528.1	526.5	524.2	521.0	518.3	515.5	514.7	513.7	515.9	514.1	513.5
5°	510.9	506.1	500.1	493.2	489.2	483.4	482.3	480.0	477.8	477.6	475.3
7.5°	492.5	485.6	477.7	470.7	464.2	457.8	453.6	452.8	449.5	447.5	445.4
10°	480.7	472.2	463.1	456.4	448.8	442.1	437.4	434.8	432.5	430.1	427.8
12.5°	466.8	457.8	450.3	443.0	434.0	429.0	421.2	416.6	416.1	416.1	410.4
15°	450.6	441.7	430.1	419.8	414.9	405.1	400.9	395.5	392.2	388.8	386.2
17.5°	432.1	420.9	411.9	400.1	390.8	383.0	377.4	374.2	369.1	364.4	361.0
20°	420.5	408.7	399.1	386.5	376.4	366.7	362.0	357.6	353.8	349.8	346.0
22.5°	408.7	396.3	384.7	372.5	363.0	352.8	348.3	342.2	338.7	336.4	332.6
25°	390.1	376.7	363.4	351.8	342.0	333.0	327.1	322.3	318.3	316.5	314.1
27.5°	369.9	356.7	343.7	330.5	319.4	312.9	308.1	304.6	302.3	299.9	298.8
30°	357.1	343.3	329.5	317.2	307.0	300.5	296.1	293.6	291.8	290.7	289.5
32.5°	344.1	330.5	315.9	304.7	295.5	289.7	286.3	283.9	283.0	282.7	282.2
35°	323.2	309.4	296.1	286.0	277.3	275.0	272.1	270.8	270.3	271.9	272.6
37.5°	303.0	290.2	277.9	268.2	262.4	259.2	258.2	258.3	259.9	261.2	262.8
40°	290.0	277.5	265.9	257.4	252.0	250.1	249.6	250.7	252.5	254.1	255.9
42.5°	277.3	265.0	254.5	246.6	242.8	240.9	241.2	242.3	244.9	246.8	249.4
45°	257.7	247.4	237.1	230.6	227.5	228.0	228.0	230.0	232.4	235.4	238.3
47.5°	239.1	228.8	220.4	214.9	213.3	212.9	214.1	216.8	220.3	223.9	227.9
50°	226.7	216.8	209.4	204.5	202.7	203.4	205.2	207.6	211.9	216.4	220.6
52.5°	214.0	205.0	198.2	193.7	192.4	193.6	195.4	199.3	203.0	207.8	212.9
55°	194.3	186.7	181.3	178.0	177.6	178.2	180.2	184.5	189.8	195.9	200.8
57.5°	174.7	168.3	163.4	161.2	161.4	162.0	165.3	170.3	176.1	182.5	188.8
60°	161.5	155.7	151.7	149.9	150.1	151.5	155.5	160.1	167.3	173.5	180.2
62.5°	149.0	143.9	140.1	138.5	138.2	141.1	145.0	149.8	156.9	163.9	171.2
65°	128.9	124.9	121.8	120.9	121.6	123.9	128.8	135.2	141.2	148.5	156.2
67.5°	109.3	106.0	103.9	104.2	105.1	108.4	112.4	118.0	124.9	132.5	140.0
70°	96.8	93.7	91.9	92.1	93.5	97.5	101.0	106.6	114.0	121.8	128.0
72.5°	84.0	81.9	80.3	81.2	82.6	85.3	89.8	95.4	101.9	109.1	115.7
75°	64.5	64.5	63.6	64.3	66.3	68.9	72.3	78.0	84.5	90.4	95.7
77.5°	47.8	47.3	47.9	48.7	49.9	53.1	56.9	61.1	65.9	71.7	76.2
80°	36.6	36.9	37.9	39.3	39.7	42.1	46.2	50.0	53.7	58.6	62.9
82.5°	27.5	27.7	28.3	30.0	30.4	33.1	35.6	39.4	42.9	46.2	49.7
85°	15.0	15.0	16.0	16.8	17.8	19.6	21.2	23.5	26.6	28.7	32.1
87.5°	7.3	7.3	9.0	9.4	10.4	11.6	11.8	13.9	14.8	15.9	17.5
90°	7.5	7.5	13.2	13.2	15.1	17.0	16.0	17.0	17.9	18.9	18.9
92.5°	49.7	69.3	117.1	190.1	261.2	298.5	248.6	184.8	139.1	110.7	91.8
95°	78.1	117.6	199.4	353.8	578.7	766.9	788.5	697.2	551.4	425.3	334.0
97.5°	94.4	127.6	190.7	318.0	541.6	807.7	990.6	1030.2	975.9	883.9	785.7
100°	107.3	137.4	192.9	299.3	491.2	756.5	997.4	1134.8	1153.6	1107.5	1037.8
102.5°	121.6	150.1	200.4	294.0	457.3	692.6	940.9	1129.5	1222.9	1236.2	1207.2
105°	145.8	173.1	218.3	296.4	428.1	617.3	838.4	1053.9	1216.6	1309.8	1348.4
107.5°	170.9	197.7	239.2	310.3	422.8	575.1	755.5	946.4	1119.7	1250.9	1334.8
110°	188.2	213.6	255.0	320.8	424.3	560.8	714.2	881.7	1044.4	1180.9	1284.4



TEST NUMBER: P332519-830

CATALOG NUMBER: S124DIP-S350D1035U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	204.7	230.2	270.0	332.2	428.9	554.0	690.9	834.2	978.2	1107.1	1210.6
115°	230.5	255.9	293.6	350.1	437.5	550.4	669.0	786.6	902.4	1012.5	1102.8
117.5°	254.2	280.6	316.3	368.3	446.8	549.5	659.2	763.3	859.1	945.7	1022.3
120°	270.0	296.4	332.2	381.1	453.6	549.5	653.9	752.7	840.3	915.6	982.3
122.5°	285.9	311.4	347.2	393.1	460.3	548.7	647.9	743.8	828.2	896.7	955.3
125°	307.6	334.0	367.9	411.2	470.5	547.6	638.0	728.3	809.2	874.1	925.9
127.5°	327.8	354.4	387.1	426.8	478.5	545.5	624.6	709.5	786.8	851.6	900.7
130°	340.6	367.9	399.9	436.6	484.6	544.8	616.3	694.5	768.7	832.7	882.6
132.5°	352.7	378.4	410.5	446.4	489.8	544.0	608.8	678.6	748.5	810.9	860.8
135°	369.8	394.3	425.3	459.2	497.8	542.9	597.5	656.8	717.9	775.3	822.4
137.5°	384.3	407.6	436.6	468.3	502.5	542.7	587.7	637.1	688.8	737.2	779.7
140°	393.3	415.9	444.1	474.2	506.2	542.0	582.5	625.8	670.0	712.3	751.8
142.5°	401.6	423.4	450.9	478.7	509.3	542.0	578.0	615.2	654.1	690.5	724.7
145°	413.1	433.8	458.3	483.6	511.0	540.1	570.2	600.3	632.4	660.5	686.9
147.5°	424.1	442.8	465.8	488.0	511.9	536.7	563.3	588.1	613.5	636.1	656.8
150°	430.9	448.8	469.6	490.2	511.9	534.4	558.0	580.6	602.2	621.0	638.0
152.5°	437.7	454.1	472.6	491.7	510.4	530.7	552.0	572.3	590.9	608.2	622.2
155°	447.0	461.1	477.0	493.0	508.1	525.1	542.9	559.9	575.0	589.0	600.3
157.5°	455.6	466.7	480.2	493.0	505.7	519.2	533.7	546.5	559.1	571.0	580.0
160°	460.1	470.5	481.7	493.0	503.4	514.7	527.0	538.2	548.6	558.9	566.5
162.5°	464.7	472.8	483.2	493.0	501.1	510.2	520.9	529.9	538.8	546.9	553.6
165°	469.6	475.1	483.6	491.2	496.8	503.4	511.0	518.5	524.1	530.7	535.4
167.5°	473.0	477.2	483.4	488.9	492.3	496.6	501.9	507.4	511.7	517.0	519.8
170°	475.1	478.0	482.7	487.4	489.3	492.1	495.9	500.6	503.4	507.2	510.0
172.5°	476.6	478.7	481.9	485.9	486.3	487.6	490.6	494.6	496.6	498.9	501.0
175°	478.9	478.9	480.8	483.6	482.7	482.7	484.6	486.4	487.4	489.3	489.3
177.5°	478.9	478.9	479.7	481.2	479.7	479.7	480.4	481.2	481.9	481.9	482.7
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



TEST NUMBER: P332519-830

CATALOG NUMBER: S124DIP-S350D1035U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	513.1	512.8	511.5	511.3	511.5	512.8	513.1	513.5	514.1	515.9	513.7
5°	474.0	472.9	472.2	474.7	472.2	472.9	474.0	475.3	477.6	477.8	480.0
7.5°	444.5	443.7	441.7	441.0	441.7	443.7	444.5	445.4	447.5	449.5	452.8
10°	425.7	424.7	422.9	422.4	422.9	424.7	425.7	427.8	430.1	432.5	434.8
12.5°	407.4	405.7	405.3	405.8	405.3	405.7	407.4	410.4	416.1	416.1	416.6
15°	383.2	382.3	379.8	380.6	379.8	382.3	383.2	386.2	388.8	392.2	395.5
17.5°	359.4	358.4	355.3	358.0	355.3	358.4	359.4	361.0	364.4	369.1	374.2
20°	344.4	342.6	341.1	340.8	341.1	342.6	344.4	346.0	349.8	353.8	357.6
22.5°	330.2	328.6	328.4	327.0	328.4	328.6	330.2	332.6	336.4	338.7	342.2
25°	312.3	310.8	310.3	309.2	310.3	310.8	312.3	314.1	316.5	318.3	322.3
27.5°	298.6	297.8	297.0	297.4	297.0	297.8	298.6	298.8	299.9	302.3	304.6
30°	290.2	290.0	289.5	289.5	289.5	290.0	290.2	289.5	290.7	291.8	293.6
32.5°	283.2	283.2	283.5	283.5	283.5	283.2	283.2	282.2	282.7	283.0	283.9
35°	273.5	274.2	274.6	273.9	274.6	274.2	273.5	272.6	271.9	270.3	270.8
37.5°	264.7	265.3	266.0	266.7	266.0	265.3	264.7	262.8	261.2	259.9	258.3
40°	257.9	259.4	259.9	261.0	259.9	259.4	257.9	255.9	254.1	252.5	250.7
42.5°	251.5	253.2	254.3	254.6	254.3	253.2	251.5	249.4	246.8	244.9	242.3
45°	241.6	243.4	245.0	245.0	245.0	243.4	241.6	238.3	235.4	232.4	230.0
47.5°	231.4	233.9	235.5	235.9	235.5	233.9	231.4	227.9	223.9	220.3	216.8
50°	224.4	227.5	229.1	230.2	229.1	227.5	224.4	220.6	216.4	211.9	207.6
52.5°	217.6	220.7	222.8	223.4	222.8	220.7	217.6	212.9	207.8	203.0	199.3
55°	205.9	210.4	212.8	213.7	212.8	210.4	205.9	200.8	195.9	189.8	184.5
57.5°	194.8	199.0	201.8	202.5	201.8	199.0	194.8	188.8	182.5	176.1	170.3
60°	186.2	190.8	194.3	194.9	194.3	190.8	186.2	180.2	173.5	167.3	160.1
62.5°	177.5	182.2	185.4	187.1	185.4	182.2	177.5	171.2	163.9	156.9	149.8
65°	162.4	167.1	170.2	170.9	170.2	167.1	162.4	156.2	148.5	141.2	135.2
67.5°	145.9	150.6	152.6	153.9	152.6	150.6	145.9	140.0	132.5	124.9	118.0
70°	134.3	138.1	140.3	141.4	140.3	138.1	134.3	128.0	121.8	114.0	106.6
72.5°	121.1	125.1	127.6	127.9	127.6	125.1	121.1	115.7	109.1	101.9	95.4
75°	100.9	104.4	105.8	105.8	105.8	104.4	100.9	95.7	90.4	84.5	78.0
77.5°	79.8	81.6	83.3	83.7	83.3	81.6	79.8	76.2	71.7	65.9	61.1
80°	66.3	67.4	68.7	68.7	68.7	67.4	66.3	62.9	58.6	53.7	50.0
82.5°	52.3	53.3	54.6	54.4	54.6	53.3	52.3	49.7	46.2	42.9	39.4
85°	31.7	33.6	33.5	33.0	33.5	33.6	31.7	32.1	28.7	26.6	23.5
87.5°	18.2	18.6	18.9	19.3	18.9	18.6	18.2	17.5	15.9	14.8	13.9
90°	19.8	20.7	19.8	19.8	19.8	20.7	19.8	18.9	18.9	17.9	17.0
92.5°	80.8	75.7	72.5	72.5	72.5	75.7	80.8	91.8	110.7	139.1	184.8
95°	287.9	258.7	241.9	229.6	241.9	258.7	287.9	334.0	425.3	551.4	697.2
97.5°	718.1	661.5	633.3	613.7	633.3	661.5	718.1	785.7	883.9	975.9	1030.2
100°	956.0	898.6	870.3	862.9	870.3	898.6	956.0	1037.8	1107.5	1153.6	1134.8
102.5°	1157.0	1115.4	1085.7	1079.7	1085.7	1115.4	1157.0	1207.2	1236.2	1222.9	1129.5
105°	1350.3	1342.7	1329.6	1323.9	1329.6	1342.7	1350.3	1348.4	1309.8	1216.6	1053.9
107.5°	1381.3	1402.8	1412.2	1414.7	1412.2	1402.8	1381.3	1334.8	1250.9	1119.7	946.4
110°	1351.2	1390.7	1407.7	1416.2	1407.7	1390.7	1351.2	1284.4	1180.9	1044.4	881.7



TEST NUMBER: P332519-830

CATALOG NUMBER: S124DIP-S350D1035U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1286.5	1334.3	1358.0	1371.7	1358.0	1334.3	1286.5	1210.6	1107.1	978.2	834.2
115°	1177.1	1233.6	1263.7	1271.2	1263.7	1233.6	1177.1	1102.8	1012.5	902.4	786.6
117.5°	1085.7	1133.1	1163.6	1169.4	1163.6	1133.1	1085.7	1022.3	945.7	859.1	763.3
120°	1035.9	1077.4	1101.8	1112.2	1101.8	1077.4	1035.9	982.3	915.6	840.3	752.7
122.5°	1000.6	1035.9	1056.7	1067.1	1056.7	1035.9	1000.6	955.3	896.7	828.2	743.8
125°	963.6	990.8	1008.7	1014.4	1008.7	990.8	963.6	925.9	874.1	809.2	728.3
127.5°	938.5	962.8	977.8	983.4	977.8	962.8	938.5	900.7	851.6	786.8	709.5
130°	921.1	944.7	959.8	965.4	959.8	944.7	921.1	882.6	832.7	768.7	694.5
132.5°	898.6	925.1	939.4	945.1	939.4	925.1	898.6	860.8	810.9	748.5	678.6
135°	860.1	886.4	901.4	907.1	901.4	886.4	860.1	822.4	775.3	717.9	656.8
137.5°	814.8	840.8	853.3	860.1	853.3	840.8	814.8	779.7	737.2	688.8	637.1
140°	784.8	805.5	818.6	826.1	818.6	805.5	784.8	751.8	712.3	670.0	625.8
142.5°	753.8	773.1	784.8	790.0	784.8	773.1	753.8	724.7	690.5	654.1	615.2
145°	710.4	726.4	735.8	740.6	735.8	726.4	710.4	686.9	660.5	632.4	600.3
147.5°	674.1	687.9	695.0	696.6	695.0	687.9	674.1	656.8	636.1	613.5	588.1
150°	653.0	665.2	670.9	671.8	670.9	665.2	653.0	638.0	621.0	602.2	580.6
152.5°	635.0	644.9	648.3	649.2	648.3	644.9	635.0	622.2	608.2	590.9	572.3
155°	609.7	617.3	620.1	620.1	620.1	617.3	609.7	600.3	589.0	575.0	559.9
157.5°	587.1	592.8	594.5	594.5	594.5	592.8	587.1	580.0	571.0	559.1	546.5
160°	572.1	577.8	578.7	578.7	578.7	577.8	572.1	566.5	558.9	548.6	538.2
162.5°	557.8	563.5	564.4	563.6	564.4	563.5	557.8	553.6	546.9	538.8	529.9
165°	539.1	542.9	542.0	541.0	542.0	542.9	539.1	535.4	530.7	524.1	518.5
167.5°	521.7	524.1	524.0	523.2	524.0	524.1	521.7	519.8	517.0	511.7	507.4
170°	511.9	512.8	511.9	511.9	511.9	512.8	511.9	510.0	507.2	503.4	500.6
172.5°	502.1	503.0	502.1	500.6	502.1	503.0	502.1	501.0	498.9	496.6	494.6
175°	489.3	491.2	489.3	487.4	489.3	491.2	489.3	489.3	489.3	487.4	486.4
177.5°	481.9	482.7	481.2	479.7	481.2	482.7	481.9	482.7	481.9	481.9	481.2
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



TEST NUMBER: P332519-830

CATALOG NUMBER: S124DIP-S350D1035U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	514.7	515.5	518.3	521.0	524.2	526.5	528.1	529.9	533.7	536.7	539.6
5°	482.3	483.4	489.2	493.2	500.1	506.1	510.9	515.9	522.0	530.3	537.8
7.5°	453.6	457.8	464.2	470.7	477.7	485.6	492.5	500.2	510.6	522.0	533.7
10°	437.4	442.1	448.8	456.4	463.1	472.2	480.7	489.8	501.7	515.5	529.3
12.5°	421.2	429.0	434.0	443.0	450.3	457.8	466.8	478.8	492.6	507.1	523.8
15°	400.9	405.1	414.9	419.8	430.1	441.7	450.6	462.6	476.0	495.2	514.0
17.5°	377.4	383.0	390.8	400.1	411.9	420.9	432.1	444.5	461.4	480.4	503.9
20°	362.0	366.7	376.4	386.5	399.1	408.7	420.5	432.5	450.0	470.2	494.7
22.5°	348.3	352.8	363.0	372.5	384.7	396.3	408.7	422.7	439.4	460.8	485.9
25°	327.1	333.0	342.0	351.8	363.4	376.7	390.1	402.7	420.5	443.0	469.8
27.5°	308.1	312.9	319.4	330.5	343.7	356.7	369.9	385.7	402.8	426.7	454.4
30°	296.1	300.5	307.0	317.2	329.5	343.3	357.1	372.3	390.1	413.8	442.1
32.5°	286.3	289.7	295.5	304.7	315.9	330.5	344.1	359.8	378.5	401.8	429.4
35°	272.1	275.0	277.3	286.0	296.1	309.4	323.2	340.0	358.1	380.1	407.7
37.5°	258.2	259.2	262.4	268.2	277.9	290.2	303.0	319.5	338.0	360.4	385.4
40°	249.6	250.1	252.0	257.4	265.9	277.5	290.0	306.2	323.9	345.1	369.9
42.5°	241.2	240.9	242.8	246.6	254.5	265.0	277.3	292.2	309.8	329.4	352.7
45°	228.0	228.0	227.5	230.6	237.1	247.4	257.7	271.9	286.6	305.9	325.5
47.5°	214.1	212.9	213.3	214.9	220.4	228.8	239.1	250.8	263.8	280.0	297.3
50°	205.2	203.4	202.7	204.5	209.4	216.8	226.7	236.9	249.2	263.4	278.1
52.5°	195.4	193.6	192.4	193.7	198.2	205.0	214.0	223.0	234.0	245.6	258.4
55°	180.2	178.2	177.6	178.0	181.3	186.7	194.3	202.6	210.8	220.4	229.3
57.5°	165.3	162.0	161.4	161.2	163.4	168.3	174.7	181.8	187.8	193.7	203.2
60°	155.5	151.5	150.1	149.9	151.7	155.7	161.5	168.6	172.9	176.9	185.1
62.5°	145.0	141.1	138.2	138.5	140.1	143.9	149.0	154.2	157.0	161.4	166.9
65°	128.8	123.9	121.6	120.9	121.8	124.9	128.9	132.2	135.4	137.2	142.5
67.5°	112.4	108.4	105.1	104.2	103.9	106.0	109.3	111.3	113.6	115.1	118.3
70°	101.0	97.5	93.5	92.1	91.9	93.7	96.8	97.1	100.2	100.9	104.2
72.5°	89.8	85.3	82.6	81.2	80.3	81.9	84.0	84.5	86.2	87.5	89.2
75°	72.3	68.9	66.3	64.3	63.6	64.5	64.5	65.6	66.7	67.4	69.4
77.5°	56.9	53.1	49.9	48.7	47.9	47.3	47.8	48.5	48.0	49.1	49.6
80°	46.2	42.1	39.7	39.3	37.9	36.9	36.6	37.2	36.4	36.9	38.2
82.5°	35.6	33.1	30.4	30.0	28.3	27.7	27.5	27.1	27.1	27.0	27.2
85°	21.2	19.6	17.8	16.8	16.0	15.0	15.0	14.5	14.0	13.6	13.9
87.5°	11.8	11.6	10.4	9.4	9.0	7.3	7.3	6.5	6.1	5.4	4.8
90°	16.0	17.0	15.1	13.2	13.2	7.5	7.5	6.6	5.7	2.8	0.9
92.5°	248.6	298.5	261.2	190.1	117.1	69.3	49.7	35.9	24.5	15.6	10.7
95°	788.5	766.9	578.7	353.8	199.4	117.6	78.1	55.5	43.3	33.8	31.0
97.5°	990.6	807.7	541.6	318.0	190.7	127.6	94.4	75.1	63.8	55.7	55.7
100°	997.4	756.5	491.2	299.3	192.9	137.4	107.3	89.4	78.1	71.5	71.5
102.5°	940.9	692.6	457.3	294.0	200.4	150.1	121.6	104.4	93.9	88.0	86.5
105°	838.4	617.3	428.1	296.4	218.3	173.1	145.8	128.9	117.6	112.9	110.1
107.5°	755.5	575.1	422.8	310.3	239.2	197.7	170.9	154.7	142.6	138.0	136.1
110°	714.2	560.8	424.3	320.8	255.0	213.6	188.2	171.3	159.9	155.2	153.4



TEST NUMBER: P332519-830

CATALOG NUMBER: S124DIP-S350D1035U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	690.9	554.0	428.9	332.2	270.0	230.2	204.7	187.8	177.3	171.8	169.9
115°	669.0	550.4	437.5	350.1	293.6	255.9	230.5	212.6	203.2	196.6	193.9
117.5°	659.2	549.5	446.8	368.3	316.3	280.6	254.2	237.5	227.2	221.3	218.7
120°	653.9	549.5	453.6	381.1	332.2	296.4	270.0	254.0	243.7	237.1	235.3
122.5°	647.9	548.7	460.3	393.1	347.2	311.4	285.9	268.3	258.7	252.1	250.3
125°	638.0	547.6	470.5	411.2	367.9	334.0	307.6	289.8	279.5	273.8	270.0
127.5°	624.6	545.5	478.5	426.8	387.1	354.4	327.8	309.2	297.4	290.6	287.6
130°	616.3	544.8	484.6	436.6	399.9	367.9	340.6	322.7	308.6	301.1	297.4
132.5°	608.8	544.0	489.8	446.4	410.5	378.4	352.7	333.3	319.9	310.1	307.1
135°	597.5	542.9	497.8	459.2	425.3	394.3	369.8	350.1	334.0	324.6	320.8
137.5°	587.7	542.7	502.5	468.3	436.6	407.6	384.3	363.7	348.6	338.2	334.6
140°	582.5	542.0	506.2	474.2	444.1	415.9	393.3	373.5	357.6	347.2	344.4
142.5°	578.0	542.0	509.3	478.7	450.9	423.4	401.6	382.6	367.3	357.8	355.0
145°	570.2	540.1	511.0	483.6	458.3	433.8	413.1	395.2	382.0	372.6	369.8
147.5°	563.3	536.7	511.9	488.0	465.8	442.8	424.1	409.3	395.8	387.5	386.5
150°	558.0	534.4	511.9	490.2	469.6	448.8	430.9	416.9	405.6	398.0	397.1
152.5°	552.0	530.7	510.4	491.7	472.6	454.1	437.7	425.1	414.6	407.1	406.9
155°	542.9	525.1	508.1	493.0	477.0	461.1	447.0	436.6	427.2	421.5	420.6
157.5°	533.7	519.2	505.7	493.0	480.2	466.7	455.6	446.6	439.2	433.9	433.9
160°	527.0	514.7	503.4	493.0	481.7	470.5	460.1	452.6	446.0	442.2	442.2
162.5°	520.9	510.2	501.1	493.0	483.2	472.8	464.7	457.9	452.0	449.0	449.8
165°	511.0	503.4	496.8	491.2	483.6	475.1	469.6	464.9	460.1	458.3	458.3
167.5°	501.9	496.6	492.3	488.9	483.4	477.2	473.0	470.3	466.7	465.8	466.7
170°	495.9	492.1	489.3	487.4	482.7	478.0	475.1	473.3	470.5	469.6	470.5
172.5°	490.6	487.6	486.3	485.9	481.9	478.7	476.6	475.5	473.4	473.3	474.2
175°	484.6	482.7	482.7	483.6	480.8	478.9	478.9	478.0	477.0	477.0	478.0
177.5°	480.4	479.7	479.7	481.2	479.7	478.9	478.9	478.9	478.2	478.9	479.7
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



TEST NUMBER: P332519-830

CATALOG NUMBER: S124DIP-S350D1035U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	542.1	543.8	546.2	550.1	551.5	553.3	555.8	555.6	556.3	559.0	564.7
5°	544.0	551.0	557.7	565.7	574.2	579.8	587.3	592.0	596.7	602.8	613.0
7.5°	544.9	555.8	568.1	582.2	594.7	609.2	620.5	631.1	640.7	653.4	665.6
10°	543.7	558.4	574.2	592.0	611.0	627.1	641.6	658.1	672.1	687.5	701.3
12.5°	541.3	559.0	580.2	600.2	622.4	646.1	664.2	680.9	699.6	717.3	738.7
15°	536.0	560.3	585.1	611.4	641.1	668.5	694.7	716.2	736.3	762.9	790.8
17.5°	529.3	555.5	586.8	618.7	649.7	681.0	713.3	745.8	771.2	804.2	826.0
20°	523.1	553.5	585.6	623.5	654.5	693.5	725.7	757.1	791.9	824.7	850.8
22.5°	514.3	547.5	581.6	619.3	660.2	699.3	736.3	770.4	805.3	840.9	872.5
25°	503.2	533.4	573.7	616.5	657.1	699.6	742.2	784.9	822.5	860.2	889.6
27.5°	484.4	522.4	560.0	604.2	649.2	697.2	742.8	787.6	826.9	857.9	876.1
30°	474.7	507.7	548.6	593.0	641.8	693.3	740.8	784.8	821.3	846.1	853.5
32.5°	460.4	494.5	534.4	580.4	632.2	685.1	734.5	776.0	806.5	819.5	810.7
35°	439.2	470.0	510.4	557.4	611.2	667.6	716.5	751.5	767.1	754.9	724.3
37.5°	413.8	444.3	484.8	531.1	586.7	644.1	688.2	713.5	708.3	677.8	632.3
40°	396.0	424.5	463.1	513.0	567.2	624.8	663.6	677.2	663.0	619.3	570.8
42.5°	376.2	404.0	442.7	491.0	548.4	601.4	635.3	636.4	612.5	560.2	511.6
45°	346.0	372.5	409.1	459.3	512.4	562.3	584.7	573.7	529.5	479.2	430.3
47.5°	316.2	339.2	375.3	422.9	473.3	515.4	526.5	506.8	459.8	410.8	365.5
50°	294.5	317.6	351.6	397.1	445.7	482.0	487.4	461.3	415.1	365.8	330.4
52.5°	273.5	296.6	329.2	371.4	415.8	448.7	448.8	418.7	372.7	328.8	295.8
55°	242.9	263.6	293.1	330.8	370.5	396.2	389.9	358.7	318.8	280.6	251.8
57.5°	213.4	231.5	258.5	290.0	325.0	346.2	335.8	305.8	270.1	237.7	215.9
60°	194.3	211.5	234.7	264.4	293.8	310.3	300.5	273.2	240.4	214.3	195.4
62.5°	175.7	190.2	212.5	238.3	265.6	277.8	269.1	242.2	213.9	190.3	174.8
65°	149.5	161.3	179.1	201.2	221.0	231.6	224.2	199.2	177.6	160.6	148.4
67.5°	124.9	134.1	147.7	165.4	182.3	187.9	181.3	163.8	145.5	132.0	123.3
70°	107.9	116.7	128.0	141.7	156.4	162.4	155.7	141.9	127.0	114.4	105.9
72.5°	93.1	99.9	109.5	121.1	132.6	138.6	134.1	120.8	108.2	98.9	91.7
75°	71.0	76.7	83.4	91.7	100.6	104.6	100.6	91.4	82.8	75.9	70.7
77.5°	51.6	54.7	59.9	66.1	71.6	74.6	71.2	65.0	59.7	55.0	52.4
80°	39.3	41.5	45.1	50.0	53.7	56.6	54.4	49.3	45.1	41.9	40.8
82.5°	28.6	30.1	32.4	36.0	38.5	40.1	39.1	35.3	33.6	30.9	29.8
85°	14.0	15.0	16.5	17.6	19.9	20.1	20.3	18.8	17.2	16.5	15.6
87.5°	5.4	6.1	6.9	7.5	8.3	9.6	9.4	9.8	9.4	9.0	8.6
90°	2.8	5.7	6.6	7.5	7.5	13.2	13.2	15.1	17.0	16.0	17.0
92.5°	15.6	24.5	35.9	49.7	69.3	117.1	190.1	261.2	298.5	248.6	184.8
95°	33.8	43.3	55.5	78.1	117.6	199.4	353.8	578.7	766.9	788.5	697.2
97.5°	55.7	63.8	75.1	94.4	127.6	190.7	318.0	541.6	807.7	990.6	1030.2
100°	71.5	78.1	89.4	107.3	137.4	192.9	299.3	491.2	756.5	997.4	1134.8
102.5°	88.0	93.9	104.4	121.6	150.1	200.4	294.0	457.3	692.6	940.9	1129.5
105°	112.9	117.6	128.9	145.8	173.1	218.3	296.4	428.1	617.3	838.4	1053.9
107.5°	138.0	142.6	154.7	170.9	197.7	239.2	310.3	422.8	575.1	755.5	946.4
110°	155.2	159.9	171.3	188.2	213.6	255.0	320.8	424.3	560.8	714.2	881.7





TEST NUMBER: P332519-830

CATALOG NUMBER: S124DIP-S350D1035U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	171.8	177.3	187.8	204.7	230.2	270.0	332.2	428.9	554.0	690.9	834.2
115°	196.6	203.2	212.6	230.5	255.9	293.6	350.1	437.5	550.4	669.0	786.6
117.5°	221.3	227.2	237.5	254.2	280.6	316.3	368.3	446.8	549.5	659.2	763.3
120°	237.1	243.7	254.0	270.0	296.4	332.2	381.1	453.6	549.5	653.9	752.7
122.5°	252.1	258.7	268.3	285.9	311.4	347.2	393.1	460.3	548.7	647.9	743.8
125°	273.8	279.5	289.8	307.6	334.0	367.9	411.2	470.5	547.6	638.0	728.3
127.5°	290.6	297.4	309.2	327.8	354.4	387.1	426.8	478.5	545.5	624.6	709.5
130°	301.1	308.6	322.7	340.6	367.9	399.9	436.6	484.6	544.8	616.3	694.5
132.5°	310.1	319.9	333.3	352.7	378.4	410.5	446.4	489.8	544.0	608.8	678.6
135°	324.6	334.0	350.1	369.8	394.3	425.3	459.2	497.8	542.9	597.5	656.8
137.5°	338.2	348.6	363.7	384.3	407.6	436.6	468.3	502.5	542.7	587.7	637.1
140°	347.2	357.6	373.5	393.3	415.9	444.1	474.2	506.2	542.0	582.5	625.8
142.5°	357.8	367.3	382.6	401.6	423.4	450.9	478.7	509.3	542.0	578.0	615.2
145°	372.6	382.0	395.2	413.1	433.8	458.3	483.6	511.0	540.1	570.2	600.3
147.5°	387.5	395.8	409.3	424.1	442.8	465.8	488.0	511.9	536.7	563.3	588.1
150°	398.0	405.6	416.9	430.9	448.8	469.6	490.2	511.9	534.4	558.0	580.6
152.5°	407.1	414.6	425.1	437.7	454.1	472.6	491.7	510.4	530.7	552.0	572.3
155°	421.5	427.2	436.6	447.0	461.1	477.0	493.0	508.1	525.1	542.9	559.9
157.5°	433.9	439.2	446.6	455.6	466.7	480.2	493.0	505.7	519.2	533.7	546.5
160°	442.2	446.0	452.6	460.1	470.5	481.7	493.0	503.4	514.7	527.0	538.2
162.5°	449.0	452.0	457.9	464.7	472.8	483.2	493.0	501.1	510.2	520.9	529.9
165°	458.3	460.1	464.9	469.6	475.1	483.6	491.2	496.8	503.4	511.0	518.5
167.5°	465.8	466.7	470.3	473.0	477.2	483.4	488.9	492.3	496.6	501.9	507.4
170°	469.6	470.5	473.3	475.1	478.0	482.7	487.4	489.3	492.1	495.9	500.6
172.5°	473.3	473.4	475.5	476.6	478.7	481.9	485.9	486.3	487.6	490.6	494.6
175°	477.0	477.0	478.0	478.9	478.9	480.8	483.6	482.7	482.7	484.6	486.4
177.5°	478.9	478.2	478.9	478.9	478.9	479.7	481.2	479.7	479.7	480.4	481.2
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	567.6	568.0	569.6	570.8	571.2	573.0	573.1
5°	617.5	621.2	628.6	629.2	630.4	636.2	631.7
7.5°	675.9	685.5	691.9	697.7	699.6	702.2	701.7
10°	713.4	727.6	734.8	746.2	746.6	749.5	747.7
12.5°	751.0	767.6	780.6	782.8	792.3	793.8	796.3
15°	804.4	822.0	840.1	846.6	859.7	862.8	867.7
17.5°	854.5	872.5	885.2	901.9	907.4	914.5	909.6
20°	882.0	901.6	917.8	930.9	936.4	940.5	940.0
22.5°	898.6	918.4	931.4	941.4	946.6	948.3	948.2
25°	909.0	920.4	924.4	928.2	922.4	920.4	921.2
27.5°	880.1	877.1	866.7	852.9	838.7	827.4	821.1
30°	840.3	822.9	807.1	779.4	765.2	756.7	749.0
32.5°	783.9	756.3	725.9	700.5	684.3	671.8	669.9
35°	687.3	645.8	608.5	577.5	561.5	547.9	544.7
37.5°	584.3	541.2	507.7	480.3	463.1	453.5	444.5
40°	515.9	478.9	445.9	422.7	409.5	402.7	397.1
42.5°	463.4	429.5	396.6	379.0	367.1	362.9	359.6
45°	390.6	359.1	336.4	323.0	316.1	309.0	305.6
47.5°	332.3	306.8	291.8	280.4	273.0	268.7	266.6
50°	299.4	278.4	265.0	256.3	249.6	246.3	244.5
52.5°	270.1	252.9	241.7	234.7	230.2	227.7	227.0
55°	232.6	219.5	212.4	206.3	203.0	200.8	199.9
57.5°	202.3	192.1	186.3	181.3	180.0	178.2	177.6
60°	182.3	174.5	169.6	166.2	165.0	162.9	163.2
62.5°	164.6	158.2	154.0	152.1	150.6	148.7	149.4
65°	139.2	134.5	132.2	130.5	128.8	127.6	128.5
67.5°	116.8	113.6	110.6	109.5	108.7	108.5	107.5
70°	102.2	99.5	96.8	96.1	96.1	95.3	95.0
72.5°	88.0	86.1	84.4	83.8	83.1	83.5	82.6
75°	68.1	66.4	65.8	65.1	64.9	64.9	64.3
77.5°	50.2	49.1	48.1	48.1	47.2	46.9	46.8
80°	38.2	37.7	36.9	36.9	36.4	36.6	36.1
82.5°	28.7	28.1	27.9	27.5	26.9	27.0	26.5
85°	15.4	14.7	14.5	13.9	13.4	13.9	13.4
87.5°	9.0	9.0	8.8	8.6	8.6	8.4	7.9
90°	17.9	18.9	18.9	19.8	20.7	19.8	19.8
92.5°	139.1	110.7	91.8	80.8	75.7	72.5	72.5
95°	551.4	425.3	334.0	287.9	258.7	241.9	229.6
97.5°	975.9	883.9	785.7	718.1	661.5	633.3	613.7
100°	1153.6	1107.5	1037.8	956.0	898.6	870.3	862.9
102.5°	1222.9	1236.2	1207.2	1157.0	1115.4	1085.7	1079.7
105°	1216.6	1309.8	1348.4	1350.3	1342.7	1329.6	1323.9
107.5°	1119.7	1250.9	1334.8	1381.3	1402.8	1412.2	1414.7
110°	1044.4	1180.9	1284.4	1351.2	1390.7	1407.7	1416.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	978.2	1107.1	1210.6	1286.5	1334.3	1358.0	1371.7
115°	902.4	1012.5	1102.8	1177.1	1233.6	1263.7	1271.2
117.5°	859.1	945.7	1022.3	1085.7	1133.1	1163.6	1169.4
120°	840.3	915.6	982.3	1035.9	1077.4	1101.8	1112.2
122.5°	828.2	896.7	955.3	1000.6	1035.9	1056.7	1067.1
125°	809.2	874.1	925.9	963.6	990.8	1008.7	1014.4
127.5°	786.8	851.6	900.7	938.5	962.8	977.8	983.4
130°	768.7	832.7	882.6	921.1	944.7	959.8	965.4
132.5°	748.5	810.9	860.8	898.6	925.1	939.4	945.1
135°	717.9	775.3	822.4	860.1	886.4	901.4	907.1
137.5°	688.8	737.2	779.7	814.8	840.8	853.3	860.1
140°	670.0	712.3	751.8	784.8	805.5	818.6	826.1
142.5°	654.1	690.5	724.7	753.8	773.1	784.8	790.0
145°	632.4	660.5	686.9	710.4	726.4	735.8	740.6
147.5°	613.5	636.1	656.8	674.1	687.9	695.0	696.6
150°	602.2	621.0	638.0	653.0	665.2	670.9	671.8
152.5°	590.9	608.2	622.2	635.0	644.9	648.3	649.2
155°	575.0	589.0	600.3	609.7	617.3	620.1	620.1
157.5°	559.1	571.0	580.0	587.1	592.8	594.5	594.5
160°	548.6	558.9	566.5	572.1	577.8	578.7	578.7
162.5°	538.8	546.9	553.6	557.8	563.5	564.4	563.6
165°	524.1	530.7	535.4	539.1	542.9	542.0	541.0
167.5°	511.7	517.0	519.8	521.7	524.1	524.0	523.2
170°	503.4	507.2	510.0	511.9	512.8	511.9	511.9
172.5°	496.6	498.9	501.0	502.1	503.0	502.1	500.6
175°	487.4	489.3	489.3	489.3	491.2	489.3	487.4
177.5°	481.9	481.9	482.7	481.9	482.7	481.2	479.7
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9

(END OF REPORT)