

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: P332508-830

Luminaire Tested: **S124DIP-S350D810U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332508-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S350D810U830-4F0-1E-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: 4536.5 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

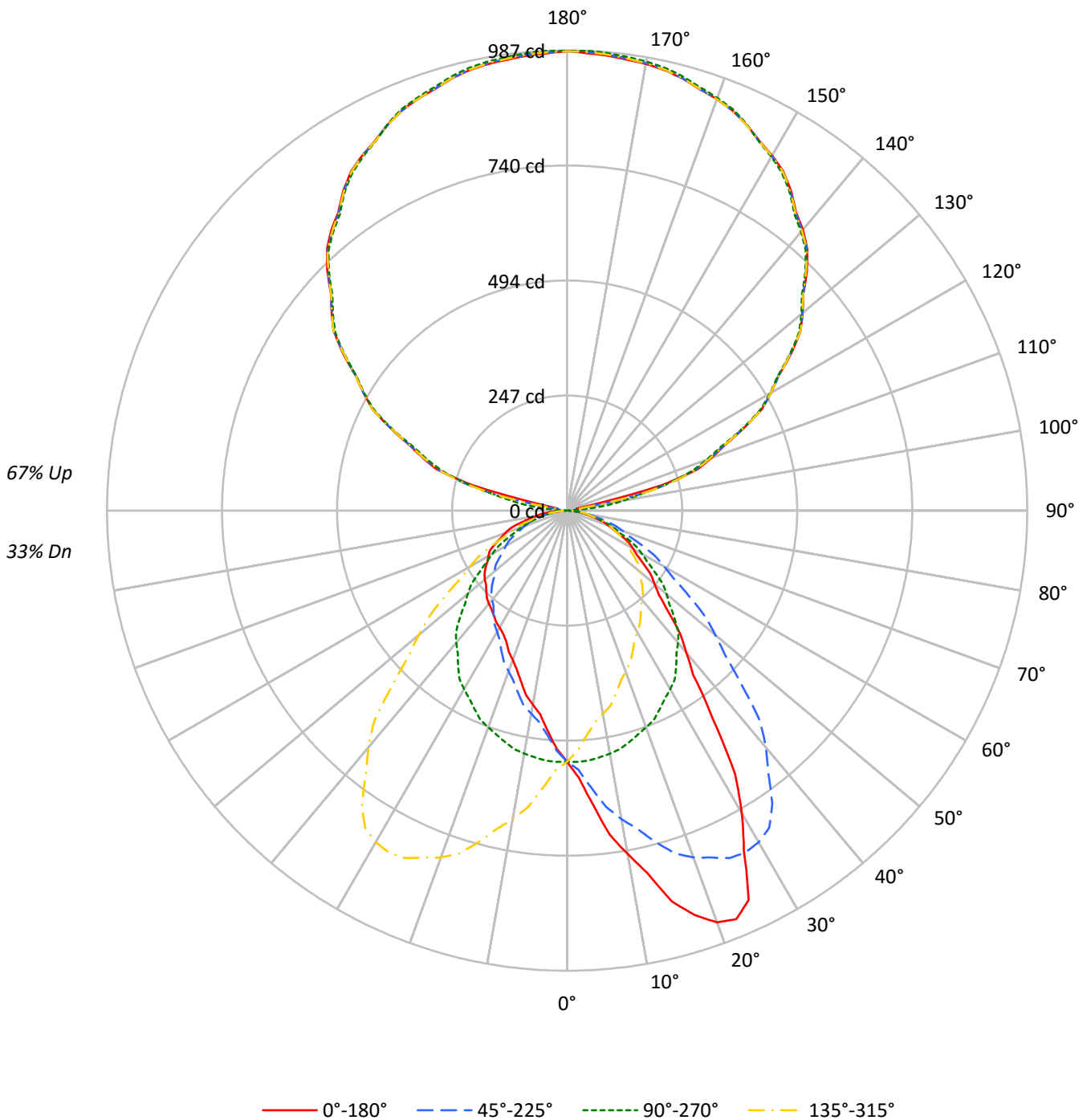
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	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	1.2
10°-20°	161.7	3.6
20°-30°	256.4	5.7
30°-40°	285.4	6.3
40°-50°	259.8	5.7
50°-60°	212.3	4.7
60°-70°	151.5	3.3
70°-80°	83.4	1.8
80°-90°	25.6	0.6
90°-100°	33.7	0.7
100°-110°	214.9	4.7
110°-120°	411.0	9.1
120°-130°	521.8	11.5
130°-140°	558.3	12.3
140°-150°	522.1	11.5
150°-160°	421.0	9.3
160°-170°	271.5	6.0
170°-180°	93.6	2.1
0°-30°	470.6	10.4
0°-40°	755.9	16.7
0°-60°	1227.9	27.1
0°-90°	1488.6	32.8
90°-120°	659.6	14.5
90°-150°	2261.8	49.9
90°-180°	3048.0	67.2
0°-180°	4536.5	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°	22	2	22	2	22	10
95°	21	40	21	40	21	17
105°	210	222	210	222	210	183
115°	417	414	417	414	417	413
125°	587	582	587	582	587	522
135°	727	722	727	722	727	560
145°	837	833	837	833	837	523
155°	912	913	912	913	912	421
165°	959	963	959	963	959	271
175°	979	985	979	985	979	93
180°	985	985	985	985	985	



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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°	8.4	8.9	8.8	8.9	9.1	9.2	9.1	8.8	9.3	9.3	9.8
90°	22.1	21.8	21.5	21.1	20.8	20.2	19.1	18.2	17.2	16.2	14.9
92.5°	20.4	20.3	20.2	20.2	20.1	19.5	18.6	17.6	16.6	15.6	14.3
95°	21.4	21.2	21.0	20.9	20.7	20.2	19.1	18.2	17.2	16.2	16.0
97.5°	20.6	20.5	20.3	20.2	20.0	19.9	19.8	19.7	19.5	19.4	37.7
100°	20.6	20.5	20.3	20.2	20.0	21.3	24.0	26.9	29.6	32.4	55.0
102.5°	21.2	21.2	21.1	21.1	21.1	36.1	66.2	96.1	126.2	156.3	159.2
105°	210.0	215.9	221.8	227.7	233.7	235.8	234.3	232.9	231.4	229.9	229.1
107.5°	292.8	292.1	291.4	290.9	290.2	289.5	288.8	288.1	287.4	286.7	285.6
110°	328.7	328.2	327.7	327.3	326.7	326.3	326.0	325.6	325.4	325.0	324.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	364.7	364.0	363.4	362.8	362.1	361.8	361.9	362.0	362.1	362.1	361.7
115°	417.2	417.2	417.2	417.2	417.2	417.0	416.6	416.3	415.9	415.7	415.8
117.5°	470.5	470.5	470.6	470.7	470.7	470.8	470.9	470.9	471.0	471.1	470.7
120°	504.1	504.4	504.7	505.1	505.4	505.4	505.1	504.7	504.4	504.1	504.3
122.5°	537.1	537.4	537.7	538.1	538.4	538.5	538.3	538.1	537.9	537.7	537.4
125°	586.6	586.4	586.3	586.2	586.0	585.6	585.1	584.7	584.2	583.7	584.0
127.5°	630.1	630.3	630.4	630.5	630.7	630.7	630.8	630.9	631.0	631.1	630.4
130°	659.6	659.6	659.6	659.6	659.6	659.5	659.3	659.2	659.0	658.8	658.4
132.5°	686.7	686.8	686.9	687.1	687.2	687.2	687.0	686.9	686.7	686.5	685.9
135°	727.4	727.1	726.7	726.4	726.0	725.8	725.4	725.1	724.7	724.4	723.8
137.5°	762.1	762.2	762.3	762.4	762.5	762.4	762.0	761.7	761.4	761.0	760.3
140°	786.4	786.2	786.0	785.9	785.7	785.3	784.9	784.4	783.9	783.3	783.1
142.5°	806.3	806.3	806.3	806.3	806.3	806.1	805.7	805.3	805.0	804.6	804.5
145°	837.2	836.9	836.5	836.2	835.8	835.7	835.5	835.3	835.2	835.0	835.0
147.5°	862.7	862.5	862.3	862.2	862.0	861.9	861.8	861.7	861.5	861.4	861.5
150°	879.2	879.0	878.8	878.7	878.5	878.4	878.4	878.4	878.4	878.4	878.6
152.5°	893.3	893.4	893.5	893.6	893.7	893.6	893.4	893.2	892.9	892.6	892.9
155°	912.4	912.9	913.3	913.8	914.4	914.3	913.6	912.9	912.3	911.6	912.1
157.5°	928.3	929.2	930.0	930.9	931.7	931.7	930.9	930.0	929.2	928.3	928.9
160°	938.9	939.9	940.8	941.9	942.8	942.8	941.9	940.8	939.9	938.9	939.1
162.5°	947.2	948.3	949.3	950.5	951.6	951.7	950.6	949.7	948.8	947.7	947.9
165°	958.8	960.3	961.8	963.2	964.7	964.8	963.5	962.1	960.8	959.5	959.5
167.5°	967.5	969.1	970.7	972.4	974.0	974.1	972.7	971.3	969.8	968.4	968.5
170°	972.8	974.4	976.1	977.7	979.3	979.5	978.2	976.9	975.5	974.3	974.1
172.5°	975.7	977.5	979.3	981.1	982.8	983.1	981.8	980.4	979.1	977.8	977.6
175°	979.4	981.4	983.4	985.3	987.3	987.5	986.1	984.6	983.1	981.7	981.5
177.5°	981.8	983.4	985.0	986.5	988.1	988.4	987.3	986.3	985.1	984.1	983.9
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



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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°	9.5	9.4	9.0	7.9	7.1	6.1	5.7	5.1	5.7	6.1	6.7
90°	13.6	12.3	10.9	9.4	7.6	5.8	4.1	2.2	4.1	5.8	7.6
92.5°	13.0	11.7	10.4	9.7	9.6	9.5	9.4	9.3	9.4	9.5	9.6
95°	15.9	15.7	15.6	18.3	23.8	29.4	35.0	40.5	35.0	29.4	23.8
97.5°	56.0	74.3	92.6	100.0	96.5	93.0	89.5	86.1	89.5	93.0	96.5
100°	77.7	100.2	122.8	132.6	129.7	126.8	123.9	120.8	123.9	126.8	129.7
102.5°	162.1	165.0	168.1	168.4	166.3	164.1	161.9	159.8	161.9	164.1	166.3
105°	228.3	227.4	226.7	225.7	224.8	223.8	222.8	221.8	222.8	223.8	224.8
107.5°	284.5	283.3	282.2	281.4	281.0	280.4	279.9	279.5	279.9	280.4	281.0
110°	323.0	322.1	321.0	320.4	319.8	319.3	318.9	318.4	318.9	319.3	319.8



TEST NUMBER: P332508-830

CATALOG NUMBER: S124DIP-S350D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	361.2	360.8	360.3	359.7	358.7	357.9	356.9	356.1	356.9	357.9	358.7
115°	415.9	416.1	416.3	416.1	415.7	415.2	414.6	414.2	414.6	415.2	415.7
117.5°	470.3	470.0	469.7	469.1	468.4	467.8	467.1	466.5	467.1	467.8	468.4
120°	504.4	504.5	504.7	504.4	503.9	503.2	502.6	501.9	502.6	503.2	503.9
122.5°	537.2	537.0	536.8	536.5	536.0	535.6	535.3	534.9	535.3	535.6	536.0
125°	584.4	584.7	584.9	584.8	584.2	583.5	582.9	582.2	582.9	583.5	584.2
127.5°	629.6	628.9	628.1	627.6	627.5	627.4	627.2	627.0	627.2	627.4	627.5
130°	657.9	657.3	656.9	656.6	656.4	656.2	656.1	655.9	656.1	656.2	656.4
132.5°	685.3	684.7	684.1	683.6	683.3	683.1	682.7	682.4	682.7	683.1	683.3
135°	723.1	722.5	721.8	721.6	721.7	721.9	722.1	722.3	722.1	721.9	721.7
137.5°	759.6	758.8	758.1	757.7	757.6	757.6	757.5	757.4	757.5	757.6	757.6
140°	782.8	782.4	782.1	781.7	781.5	781.1	780.8	780.4	780.8	781.1	781.5
142.5°	804.3	804.0	803.8	803.4	802.9	802.3	801.6	801.1	801.6	802.3	802.9
145°	835.0	835.0	835.0	834.7	834.2	833.8	833.3	832.7	833.3	833.8	834.2
147.5°	861.7	861.9	862.0	861.7	860.7	859.8	858.9	858.0	858.9	859.8	860.7
150°	878.8	878.9	879.1	878.8	878.3	877.6	876.9	876.3	876.9	877.6	878.3
152.5°	893.2	893.5	893.8	893.7	893.2	892.6	892.1	891.6	892.1	892.6	893.2
155°	912.6	913.1	913.6	913.8	913.6	913.4	913.2	913.1	913.2	913.4	913.6
157.5°	929.4	929.9	930.5	930.9	930.9	931.0	931.1	931.2	931.1	931.0	930.9
160°	939.2	939.4	939.5	939.9	940.4	940.8	941.3	941.9	941.3	940.8	940.4
162.5°	948.1	948.2	948.4	948.8	949.4	950.0	950.6	951.3	950.6	950.0	949.4
165°	959.5	959.5	959.5	960.0	960.7	961.6	962.4	963.2	962.4	961.6	960.7
167.5°	968.6	968.7	968.7	969.2	970.1	970.9	971.8	972.6	971.8	970.9	970.1
170°	973.9	973.7	973.6	974.0	975.0	976.0	976.9	978.0	976.9	976.0	975.0
172.5°	977.5	977.3	977.1	977.6	978.5	979.5	980.5	981.5	980.5	979.5	978.5
175°	981.3	981.2	981.0	981.4	982.4	983.4	984.3	985.3	984.3	983.4	982.4
177.5°	983.6	983.4	983.1	983.4	984.3	985.2	986.2	987.1	986.2	985.2	984.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332508-830

CATALOG NUMBER: S124DIP-S350D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	528.1	526.5	524.2	521.0	518.3	515.5	514.7	513.7	515.9	514.1	513.5
5°	510.9	506.1	500.1	493.2	489.2	483.4	482.3	480.0	477.8	477.6	475.3
7.5°	492.5	485.6	477.7	470.7	464.2	457.8	453.6	452.8	449.5	447.5	445.4
10°	480.7	472.2	463.1	456.4	448.8	442.1	437.4	434.8	432.5	430.1	427.8
12.5°	466.8	457.8	450.3	443.0	434.0	429.0	421.2	416.6	416.1	416.1	410.4
15°	450.6	441.7	430.1	419.8	414.9	405.1	400.9	395.5	392.2	388.8	386.2
17.5°	432.1	420.9	411.9	400.1	390.8	383.0	377.4	374.2	369.1	364.4	361.0
20°	420.5	408.7	399.1	386.5	376.4	366.7	362.0	357.6	353.8	349.8	346.0
22.5°	408.7	396.3	384.7	372.5	363.0	352.8	348.3	342.2	338.7	336.4	332.6
25°	390.1	376.7	363.4	351.8	342.0	333.0	327.1	322.3	318.3	316.5	314.1
27.5°	369.9	356.7	343.7	330.5	319.4	312.9	308.1	304.6	302.3	299.9	298.8
30°	357.1	343.3	329.5	317.2	307.0	300.5	296.1	293.6	291.8	290.7	289.5
32.5°	344.1	330.5	315.9	304.7	295.5	289.7	286.3	283.9	283.0	282.7	282.2
35°	323.2	309.4	296.1	286.0	277.3	275.0	272.1	270.8	270.3	271.9	272.6
37.5°	303.0	290.2	277.9	268.2	262.4	259.2	258.2	258.3	259.9	261.2	262.8
40°	290.0	277.5	265.9	257.4	252.0	250.1	249.6	250.7	252.5	254.1	255.9
42.5°	277.3	265.0	254.5	246.6	242.8	240.9	241.2	242.3	244.9	246.8	249.4
45°	257.7	247.4	237.1	230.6	227.5	228.0	228.0	230.0	232.4	235.4	238.3
47.5°	239.1	228.8	220.4	214.9	213.3	212.9	214.1	216.8	220.3	223.9	227.9
50°	226.7	216.8	209.4	204.5	202.7	203.4	205.2	207.6	211.9	216.4	220.6
52.5°	214.0	205.0	198.2	193.7	192.4	193.6	195.4	199.3	203.0	207.8	212.9
55°	194.3	186.7	181.3	178.0	177.6	178.2	180.2	184.5	189.8	195.9	200.8
57.5°	174.7	168.3	163.4	161.2	161.4	162.0	165.3	170.3	176.1	182.5	188.8
60°	161.5	155.7	151.7	149.9	150.1	151.5	155.5	160.1	167.3	173.5	180.2
62.5°	149.0	143.9	140.1	138.5	138.2	141.1	145.0	149.8	156.9	163.9	171.2
65°	128.9	124.9	121.8	120.9	121.6	123.9	128.8	135.2	141.2	148.5	156.2
67.5°	109.3	106.0	103.9	104.2	105.1	108.4	112.4	118.0	124.9	132.5	140.0
70°	96.8	93.7	91.9	92.1	93.5	97.5	101.0	106.6	114.0	121.8	128.0
72.5°	84.0	81.9	80.3	81.2	82.6	85.3	89.8	95.4	101.9	109.1	115.7
75°	64.5	64.5	63.6	64.3	66.3	68.9	72.3	78.0	84.5	90.4	95.7
77.5°	47.8	47.3	47.9	48.7	49.9	53.1	56.9	61.1	65.9	71.7	76.2
80°	36.6	36.9	37.9	39.3	39.7	42.1	46.2	50.0	53.7	58.6	62.9
82.5°	27.5	27.7	28.3	30.0	30.4	33.1	35.6	39.4	42.9	46.2	49.7
85°	15.0	15.0	16.0	16.8	17.8	19.6	21.2	23.5	26.6	28.7	32.1
87.5°	7.6	7.9	8.9	9.5	10.3	11.4	12.0	14.1	15.1	16.1	17.9
90°	9.4	10.9	12.3	13.6	14.9	16.2	17.2	18.2	19.1	20.2	20.8
92.5°	9.7	10.4	11.7	13.0	14.3	15.6	16.6	17.6	18.6	19.5	20.1
95°	18.3	15.6	15.7	15.9	16.0	16.2	17.2	18.2	19.1	20.2	20.7
97.5°	100.0	92.6	74.3	56.0	37.7	19.4	19.5	19.7	19.8	19.9	20.0
100°	132.6	122.8	100.2	77.7	55.0	32.4	29.6	26.9	24.0	21.3	20.0
102.5°	168.4	168.1	165.0	162.1	159.2	156.3	126.2	96.1	66.2	36.1	21.1
105°	225.7	226.7	227.4	228.3	229.1	229.9	231.4	232.9	234.3	235.8	233.7
107.5°	281.4	282.2	283.3	284.5	285.6	286.7	287.4	288.1	288.8	289.5	290.2
110°	320.4	321.0	322.1	323.0	324.0	325.0	325.4	325.6	326.0	326.3	326.7



TEST NUMBER: P332508-830

CATALOG NUMBER: S124DIP-S350D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	359.7	360.3	360.8	361.2	361.7	362.1	362.1	362.0	361.9	361.8	362.1
115°	416.1	416.3	416.1	415.9	415.8	415.7	415.9	416.3	416.6	417.0	417.2
117.5°	469.1	469.7	470.0	470.3	470.7	471.1	471.0	470.9	470.9	470.8	470.7
120°	504.4	504.7	504.5	504.4	504.3	504.1	504.4	504.7	505.1	505.4	505.4
122.5°	536.5	536.8	537.0	537.2	537.4	537.7	537.9	538.1	538.3	538.5	538.4
125°	584.8	584.9	584.7	584.4	584.0	583.7	584.2	584.7	585.1	585.6	586.0
127.5°	627.6	628.1	628.9	629.6	630.4	631.1	631.0	630.9	630.8	630.7	630.7
130°	656.6	656.9	657.3	657.9	658.4	658.8	659.0	659.2	659.3	659.5	659.6
132.5°	683.6	684.1	684.7	685.3	685.9	686.5	686.7	686.9	687.0	687.2	687.2
135°	721.6	721.8	722.5	723.1	723.8	724.4	724.7	725.1	725.4	725.8	726.0
137.5°	757.7	758.1	758.8	759.6	760.3	761.0	761.4	761.7	762.0	762.4	762.5
140°	781.7	782.1	782.4	782.8	783.1	783.3	783.9	784.4	784.9	785.3	785.7
142.5°	803.4	803.8	804.0	804.3	804.5	804.6	805.0	805.3	805.7	806.1	806.3
145°	834.7	835.0	835.0	835.0	835.0	835.0	835.2	835.3	835.5	835.7	835.8
147.5°	861.7	862.0	861.9	861.7	861.5	861.4	861.5	861.7	861.8	861.9	862.0
150°	878.8	879.1	878.9	878.8	878.6	878.4	878.4	878.4	878.4	878.4	878.5
152.5°	893.7	893.8	893.5	893.2	892.9	892.6	892.9	893.2	893.4	893.6	893.7
155°	913.8	913.6	913.1	912.6	912.1	911.6	912.3	912.9	913.6	914.3	914.4
157.5°	930.9	930.5	929.9	929.4	928.9	928.3	929.2	930.0	930.9	931.7	931.7
160°	939.9	939.5	939.4	939.2	939.1	938.9	939.9	940.8	941.9	942.8	942.8
162.5°	948.8	948.4	948.2	948.1	947.9	947.7	948.8	949.7	950.6	951.7	951.6
165°	960.0	959.5	959.5	959.5	959.5	959.5	960.8	962.1	963.5	964.8	964.7
167.5°	969.2	968.7	968.7	968.6	968.5	968.4	969.8	971.3	972.7	974.1	974.0
170°	974.0	973.6	973.7	973.9	974.1	974.3	975.5	976.9	978.2	979.5	979.3
172.5°	977.6	977.1	977.3	977.5	977.6	977.8	979.1	980.4	981.8	983.1	982.8
175°	981.4	981.0	981.2	981.3	981.5	981.7	983.1	984.6	986.1	987.5	987.3
177.5°	983.4	983.1	983.4	983.6	983.9	984.1	985.1	986.3	987.3	988.4	988.1
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332508-830

CATALOG NUMBER: S124DIP-S350D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	513.1	512.8	511.5	511.3	511.5	512.8	513.1	513.5	514.1	515.9	513.7
5°	474.0	472.9	472.2	474.7	472.2	472.9	474.0	475.3	477.6	477.8	480.0
7.5°	444.5	443.7	441.7	441.0	441.7	443.7	444.5	445.4	447.5	449.5	452.8
10°	425.7	424.7	422.9	422.4	422.9	424.7	425.7	427.8	430.1	432.5	434.8
12.5°	407.4	405.7	405.3	405.8	405.3	405.7	407.4	410.4	416.1	416.1	416.6
15°	383.2	382.3	379.8	380.6	379.8	382.3	383.2	386.2	388.8	392.2	395.5
17.5°	359.4	358.4	355.3	358.0	355.3	358.4	359.4	361.0	364.4	369.1	374.2
20°	344.4	342.6	341.1	340.8	341.1	342.6	344.4	346.0	349.8	353.8	357.6
22.5°	330.2	328.6	328.4	327.0	328.4	328.6	330.2	332.6	336.4	338.7	342.2
25°	312.3	310.8	310.3	309.2	310.3	310.8	312.3	314.1	316.5	318.3	322.3
27.5°	298.6	297.8	297.0	297.4	297.0	297.8	298.6	298.8	299.9	302.3	304.6
30°	290.2	290.0	289.5	289.5	289.5	290.0	290.2	289.5	290.7	291.8	293.6
32.5°	283.2	283.2	283.5	283.5	283.5	283.2	283.2	282.2	282.7	283.0	283.9
35°	273.5	274.2	274.6	273.9	274.6	274.2	273.5	272.6	271.9	270.3	270.8
37.5°	264.7	265.3	266.0	266.7	266.0	265.3	264.7	262.8	261.2	259.9	258.3
40°	257.9	259.4	259.9	261.0	259.9	259.4	257.9	255.9	254.1	252.5	250.7
42.5°	251.5	253.2	254.3	254.6	254.3	253.2	251.5	249.4	246.8	244.9	242.3
45°	241.6	243.4	245.0	245.0	245.0	243.4	241.6	238.3	235.4	232.4	230.0
47.5°	231.4	233.9	235.5	235.9	235.5	233.9	231.4	227.9	223.9	220.3	216.8
50°	224.4	227.5	229.1	230.2	229.1	227.5	224.4	220.6	216.4	211.9	207.6
52.5°	217.6	220.7	222.8	223.4	222.8	220.7	217.6	212.9	207.8	203.0	199.3
55°	205.9	210.4	212.8	213.7	212.8	210.4	205.9	200.8	195.9	189.8	184.5
57.5°	194.8	199.0	201.8	202.5	201.8	199.0	194.8	188.8	182.5	176.1	170.3
60°	186.2	190.8	194.3	194.9	194.3	190.8	186.2	180.2	173.5	167.3	160.1
62.5°	177.5	182.2	185.4	187.1	185.4	182.2	177.5	171.2	163.9	156.9	149.8
65°	162.4	167.1	170.2	170.9	170.2	167.1	162.4	156.2	148.5	141.2	135.2
67.5°	145.9	150.6	152.6	153.9	152.6	150.6	145.9	140.0	132.5	124.9	118.0
70°	134.3	138.1	140.3	141.4	140.3	138.1	134.3	128.0	121.8	114.0	106.6
72.5°	121.1	125.1	127.6	127.9	127.6	125.1	121.1	115.7	109.1	101.9	95.4
75°	100.9	104.4	105.8	105.8	105.8	104.4	100.9	95.7	90.4	84.5	78.0
77.5°	79.8	81.6	83.3	83.7	83.3	81.6	79.8	76.2	71.7	65.9	61.1
80°	66.3	67.4	68.7	68.7	68.7	67.4	66.3	62.9	58.6	53.7	50.0
82.5°	52.3	53.3	54.6	54.4	54.6	53.3	52.3	49.7	46.2	42.9	39.4
85°	31.7	33.6	33.5	33.0	33.5	33.6	31.7	32.1	28.7	26.6	23.5
87.5°	18.5	18.8	19.3	19.8	19.3	18.8	18.5	17.9	16.1	15.1	14.1
90°	21.1	21.5	21.8	22.1	21.8	21.5	21.1	20.8	20.2	19.1	18.2
92.5°	20.2	20.2	20.3	20.4	20.3	20.2	20.2	20.1	19.5	18.6	17.6
95°	20.9	21.0	21.2	21.4	21.2	21.0	20.9	20.7	20.2	19.1	18.2
97.5°	20.2	20.3	20.5	20.6	20.5	20.3	20.2	20.0	19.9	19.8	19.7
100°	20.2	20.3	20.5	20.6	20.5	20.3	20.2	20.0	21.3	24.0	26.9
102.5°	21.1	21.1	21.2	21.2	21.2	21.1	21.1	21.1	36.1	66.2	96.1
105°	227.7	221.8	215.9	210.0	215.9	221.8	227.7	233.7	235.8	234.3	232.9
107.5°	290.9	291.4	292.1	292.8	292.1	291.4	290.9	290.2	289.5	288.8	288.1
110°	327.3	327.7	328.2	328.7	328.2	327.7	327.3	326.7	326.3	326.0	325.6



TEST NUMBER: P332508-830

CATALOG NUMBER: S124DIP-S350D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	362.8	363.4	364.0	364.7	364.0	363.4	362.8	362.1	361.8	361.9	362.0
115°	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.0	416.6	416.3
117.5°	470.7	470.6	470.5	470.5	470.5	470.6	470.7	470.7	470.8	470.9	470.9
120°	505.1	504.7	504.4	504.1	504.4	504.7	505.1	505.4	505.4	505.1	504.7
122.5°	538.1	537.7	537.4	537.1	537.4	537.7	538.1	538.4	538.5	538.3	538.1
125°	586.2	586.3	586.4	586.6	586.4	586.3	586.2	586.0	585.6	585.1	584.7
127.5°	630.5	630.4	630.3	630.1	630.3	630.4	630.5	630.7	630.7	630.8	630.9
130°	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.5	659.3	659.2
132.5°	687.1	686.9	686.8	686.7	686.8	686.9	687.1	687.2	687.2	687.0	686.9
135°	726.4	726.7	727.1	727.4	727.1	726.7	726.4	726.0	725.8	725.4	725.1
137.5°	762.4	762.3	762.2	762.1	762.2	762.3	762.4	762.5	762.4	762.0	761.7
140°	785.9	786.0	786.2	786.4	786.2	786.0	785.9	785.7	785.3	784.9	784.4
142.5°	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.1	805.7	805.3
145°	836.2	836.5	836.9	837.2	836.9	836.5	836.2	835.8	835.7	835.5	835.3
147.5°	862.2	862.3	862.5	862.7	862.5	862.3	862.2	862.0	861.9	861.8	861.7
150°	878.7	878.8	879.0	879.2	879.0	878.8	878.7	878.5	878.4	878.4	878.4
152.5°	893.6	893.5	893.4	893.3	893.4	893.5	893.6	893.7	893.6	893.4	893.2
155°	913.8	913.3	912.9	912.4	912.9	913.3	913.8	914.4	914.3	913.6	912.9
157.5°	930.9	930.0	929.2	928.3	929.2	930.0	930.9	931.7	931.7	930.9	930.0
160°	941.9	940.8	939.9	938.9	939.9	940.8	941.9	942.8	942.8	941.9	940.8
162.5°	950.5	949.3	948.3	947.2	948.3	949.3	950.5	951.6	951.7	950.6	949.7
165°	963.2	961.8	960.3	958.8	960.3	961.8	963.2	964.7	964.8	963.5	962.1
167.5°	972.4	970.7	969.1	967.5	969.1	970.7	972.4	974.0	974.1	972.7	971.3
170°	977.7	976.1	974.4	972.8	974.4	976.1	977.7	979.3	979.5	978.2	976.9
172.5°	981.1	979.3	977.5	975.7	977.5	979.3	981.1	982.8	983.1	981.8	980.4
175°	985.3	983.4	981.4	979.4	981.4	983.4	985.3	987.3	987.5	986.1	984.6
177.5°	986.5	985.0	983.4	981.8	983.4	985.0	986.5	988.1	988.4	987.3	986.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332508-830

CATALOG NUMBER: S124DIP-S350D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	514.7	515.5	518.3	521.0	524.2	526.5	528.1	529.9	533.7	536.7	539.6
5°	482.3	483.4	489.2	493.2	500.1	506.1	510.9	515.9	522.0	530.3	537.8
7.5°	453.6	457.8	464.2	470.7	477.7	485.6	492.5	500.2	510.6	522.0	533.7
10°	437.4	442.1	448.8	456.4	463.1	472.2	480.7	489.8	501.7	515.5	529.3
12.5°	421.2	429.0	434.0	443.0	450.3	457.8	466.8	478.8	492.6	507.1	523.8
15°	400.9	405.1	414.9	419.8	430.1	441.7	450.6	462.6	476.0	495.2	514.0
17.5°	377.4	383.0	390.8	400.1	411.9	420.9	432.1	444.5	461.4	480.4	503.9
20°	362.0	366.7	376.4	386.5	399.1	408.7	420.5	432.5	450.0	470.2	494.7
22.5°	348.3	352.8	363.0	372.5	384.7	396.3	408.7	422.7	439.4	460.8	485.9
25°	327.1	333.0	342.0	351.8	363.4	376.7	390.1	402.7	420.5	443.0	469.8
27.5°	308.1	312.9	319.4	330.5	343.7	356.7	369.9	385.7	402.8	426.7	454.4
30°	296.1	300.5	307.0	317.2	329.5	343.3	357.1	372.3	390.1	413.8	442.1
32.5°	286.3	289.7	295.5	304.7	315.9	330.5	344.1	359.8	378.5	401.8	429.4
35°	272.1	275.0	277.3	286.0	296.1	309.4	323.2	340.0	358.1	380.1	407.7
37.5°	258.2	259.2	262.4	268.2	277.9	290.2	303.0	319.5	338.0	360.4	385.4
40°	249.6	250.1	252.0	257.4	265.9	277.5	290.0	306.2	323.9	345.1	369.9
42.5°	241.2	240.9	242.8	246.6	254.5	265.0	277.3	292.2	309.8	329.4	352.7
45°	228.0	228.0	227.5	230.6	237.1	247.4	257.7	271.9	286.6	305.9	325.5
47.5°	214.1	212.9	213.3	214.9	220.4	228.8	239.1	250.8	263.8	280.0	297.3
50°	205.2	203.4	202.7	204.5	209.4	216.8	226.7	236.9	249.2	263.4	278.1
52.5°	195.4	193.6	192.4	193.7	198.2	205.0	214.0	223.0	234.0	245.6	258.4
55°	180.2	178.2	177.6	178.0	181.3	186.7	194.3	202.6	210.8	220.4	229.3
57.5°	165.3	162.0	161.4	161.2	163.4	168.3	174.7	181.8	187.8	193.7	203.2
60°	155.5	151.5	150.1	149.9	151.7	155.7	161.5	168.6	172.9	176.9	185.1
62.5°	145.0	141.1	138.2	138.5	140.1	143.9	149.0	154.2	157.0	161.4	166.9
65°	128.8	123.9	121.6	120.9	121.8	124.9	128.9	132.2	135.4	137.2	142.5
67.5°	112.4	108.4	105.1	104.2	103.9	106.0	109.3	111.3	113.6	115.1	118.3
70°	101.0	97.5	93.5	92.1	91.9	93.7	96.8	97.1	100.2	100.9	104.2
72.5°	89.8	85.3	82.6	81.2	80.3	81.9	84.0	84.5	86.2	87.5	89.2
75°	72.3	68.9	66.3	64.3	63.6	64.5	64.5	65.6	66.7	67.4	69.4
77.5°	56.9	53.1	49.9	48.7	47.9	47.3	47.8	48.5	48.0	49.1	49.6
80°	46.2	42.1	39.7	39.3	37.9	36.9	36.6	37.2	36.4	36.9	38.2
82.5°	35.6	33.1	30.4	30.0	28.3	27.7	27.5	27.1	27.1	27.0	27.2
85°	21.2	19.6	17.8	16.8	16.0	15.0	15.0	14.5	14.0	13.6	13.9
87.5°	12.0	11.4	10.3	9.5	8.9	7.9	7.6	6.7	6.1	5.7	5.1
90°	17.2	16.2	14.9	13.6	12.3	10.9	9.4	7.6	5.8	4.1	2.2
92.5°	16.6	15.6	14.3	13.0	11.7	10.4	9.7	9.6	9.5	9.4	9.3
95°	17.2	16.2	16.0	15.9	15.7	15.6	18.3	23.8	29.4	35.0	40.5
97.5°	19.5	19.4	37.7	56.0	74.3	92.6	100.0	96.5	93.0	89.5	86.1
100°	29.6	32.4	55.0	77.7	100.2	122.8	132.6	129.7	126.8	123.9	120.8
102.5°	126.2	156.3	159.2	162.1	165.0	168.1	168.4	166.3	164.1	161.9	159.8
105°	231.4	229.9	229.1	228.3	227.4	226.7	225.7	224.8	223.8	222.8	221.8
107.5°	287.4	286.7	285.6	284.5	283.3	282.2	281.4	281.0	280.4	279.9	279.5
110°	325.4	325.0	324.0	323.0	322.1	321.0	320.4	319.8	319.3	318.9	318.4



TEST NUMBER: P332508-830

CATALOG NUMBER: S124DIP-S350D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	362.1	362.1	361.7	361.2	360.8	360.3	359.7	358.7	357.9	356.9	356.1
115°	415.9	415.7	415.8	415.9	416.1	416.3	416.1	415.7	415.2	414.6	414.2
117.5°	471.0	471.1	470.7	470.3	470.0	469.7	469.1	468.4	467.8	467.1	466.5
120°	504.4	504.1	504.3	504.4	504.5	504.7	504.4	503.9	503.2	502.6	501.9
122.5°	537.9	537.7	537.4	537.2	537.0	536.8	536.5	536.0	535.6	535.3	534.9
125°	584.2	583.7	584.0	584.4	584.7	584.9	584.8	584.2	583.5	582.9	582.2
127.5°	631.0	631.1	630.4	629.6	628.9	628.1	627.6	627.5	627.4	627.2	627.0
130°	659.0	658.8	658.4	657.9	657.3	656.9	656.6	656.4	656.2	656.1	655.9
132.5°	686.7	686.5	685.9	685.3	684.7	684.1	683.6	683.3	683.1	682.7	682.4
135°	724.7	724.4	723.8	723.1	722.5	721.8	721.6	721.7	721.9	722.1	722.3
137.5°	761.4	761.0	760.3	759.6	758.8	758.1	757.7	757.6	757.6	757.5	757.4
140°	783.9	783.3	783.1	782.8	782.4	782.1	781.7	781.5	781.1	780.8	780.4
142.5°	805.0	804.6	804.5	804.3	804.0	803.8	803.4	802.9	802.3	801.6	801.1
145°	835.2	835.0	835.0	835.0	835.0	835.0	834.7	834.2	833.8	833.3	832.7
147.5°	861.5	861.4	861.5	861.7	861.9	862.0	861.7	860.7	859.8	858.9	858.0
150°	878.4	878.4	878.6	878.8	878.9	879.1	878.8	878.3	877.6	876.9	876.3
152.5°	892.9	892.6	892.9	893.2	893.5	893.8	893.7	893.2	892.6	892.1	891.6
155°	912.3	911.6	912.1	912.6	913.1	913.6	913.8	913.6	913.4	913.2	913.1
157.5°	929.2	928.3	928.9	929.4	929.9	930.5	930.9	930.9	931.0	931.1	931.2
160°	939.9	938.9	939.1	939.2	939.4	939.5	939.9	940.4	940.8	941.3	941.9
162.5°	948.8	947.7	947.9	948.1	948.2	948.4	948.8	949.4	950.0	950.6	951.3
165°	960.8	959.5	959.5	959.5	959.5	959.5	960.0	960.7	961.6	962.4	963.2
167.5°	969.8	968.4	968.5	968.6	968.7	968.7	969.2	970.1	970.9	971.8	972.6
170°	975.5	974.3	974.1	973.9	973.7	973.6	974.0	975.0	976.0	976.9	978.0
172.5°	979.1	977.8	977.6	977.5	977.3	977.1	977.6	978.5	979.5	980.5	981.5
175°	983.1	981.7	981.5	981.3	981.2	981.0	981.4	982.4	983.4	984.3	985.3
177.5°	985.1	984.1	983.9	983.6	983.4	983.1	983.4	984.3	985.2	986.2	987.1
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332508-830

CATALOG NUMBER: S124DIP-S350D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	542.1	543.8	546.2	550.1	551.5	553.3	555.8	555.6	556.3	559.0	564.7
5°	544.0	551.0	557.7	565.7	574.2	579.8	587.3	592.0	596.7	602.8	613.0
7.5°	544.9	555.8	568.1	582.2	594.7	609.2	620.5	631.1	640.7	653.4	665.6
10°	543.7	558.4	574.2	592.0	611.0	627.1	641.6	658.1	672.1	687.5	701.3
12.5°	541.3	559.0	580.2	600.2	622.4	646.1	664.2	680.9	699.6	717.3	738.7
15°	536.0	560.3	585.1	611.4	641.1	668.5	694.7	716.2	736.3	762.9	790.8
17.5°	529.3	555.5	586.8	618.7	649.7	681.0	713.3	745.8	771.2	804.2	826.0
20°	523.1	553.5	585.6	623.5	654.5	693.5	725.7	757.1	791.9	824.7	850.8
22.5°	514.3	547.5	581.6	619.3	660.2	699.3	736.3	770.4	805.3	840.9	872.5
25°	503.2	533.4	573.7	616.5	657.1	699.6	742.2	784.9	822.5	860.2	889.6
27.5°	484.4	522.4	560.0	604.2	649.2	697.2	742.8	787.6	826.9	857.9	876.1
30°	474.7	507.7	548.6	593.0	641.8	693.3	740.8	784.8	821.3	846.1	853.5
32.5°	460.4	494.5	534.4	580.4	632.2	685.1	734.5	776.0	806.5	819.5	810.7
35°	439.2	470.0	510.4	557.4	611.2	667.6	716.5	751.5	767.1	754.9	724.3
37.5°	413.8	444.3	484.8	531.1	586.7	644.1	688.2	713.5	708.3	677.8	632.3
40°	396.0	424.5	463.1	513.0	567.2	624.8	663.6	677.2	663.0	619.3	570.8
42.5°	376.2	404.0	442.7	491.0	548.4	601.4	635.3	636.4	612.5	560.2	511.6
45°	346.0	372.5	409.1	459.3	512.4	562.3	584.7	573.7	529.5	479.2	430.3
47.5°	316.2	339.2	375.3	422.9	473.3	515.4	526.5	506.8	459.8	410.8	365.5
50°	294.5	317.6	351.6	397.1	445.7	482.0	487.4	461.3	415.1	365.8	330.4
52.5°	273.5	296.6	329.2	371.4	415.8	448.7	448.8	418.7	372.7	328.8	295.8
55°	242.9	263.6	293.1	330.8	370.5	396.2	389.9	358.7	318.8	280.6	251.8
57.5°	213.4	231.5	258.5	290.0	325.0	346.2	335.8	305.8	270.1	237.7	215.9
60°	194.3	211.5	234.7	264.4	293.8	310.3	300.5	273.2	240.4	214.3	195.4
62.5°	175.7	190.2	212.5	238.3	265.6	277.8	269.1	242.2	213.9	190.3	174.8
65°	149.5	161.3	179.1	201.2	221.0	231.6	224.2	199.2	177.6	160.6	148.4
67.5°	124.9	134.1	147.7	165.4	182.3	187.9	181.3	163.8	145.5	132.0	123.3
70°	107.9	116.7	128.0	141.7	156.4	162.4	155.7	141.9	127.0	114.4	105.9
72.5°	93.1	99.9	109.5	121.1	132.6	138.6	134.1	120.8	108.2	98.9	91.7
75°	71.0	76.7	83.4	91.7	100.6	104.6	100.6	91.4	82.8	75.9	70.7
77.5°	51.6	54.7	59.9	66.1	71.6	74.6	71.2	65.0	59.7	55.0	52.4
80°	39.3	41.5	45.1	50.0	53.7	56.6	54.4	49.3	45.1	41.9	40.8
82.5°	28.6	30.1	32.4	36.0	38.5	40.1	39.1	35.3	33.6	30.9	29.8
85°	14.0	15.0	16.5	17.6	19.9	20.1	20.3	18.8	17.2	16.5	15.6
87.5°	5.7	6.1	7.1	7.9	9.0	9.4	9.5	9.8	9.3	9.3	8.8
90°	4.1	5.8	7.6	9.4	10.9	12.3	13.6	14.9	16.2	17.2	18.2
92.5°	9.4	9.5	9.6	9.7	10.4	11.7	13.0	14.3	15.6	16.6	17.6
95°	35.0	29.4	23.8	18.3	15.6	15.7	15.9	16.0	16.2	17.2	18.2
97.5°	89.5	93.0	96.5	100.0	92.6	74.3	56.0	37.7	19.4	19.5	19.7
100°	123.9	126.8	129.7	132.6	122.8	100.2	77.7	55.0	32.4	29.6	26.9
102.5°	161.9	164.1	166.3	168.4	168.1	165.0	162.1	159.2	156.3	126.2	96.1
105°	222.8	223.8	224.8	225.7	226.7	227.4	228.3	229.1	229.9	231.4	232.9
107.5°	279.9	280.4	281.0	281.4	282.2	283.3	284.5	285.6	286.7	287.4	288.1
110°	318.9	319.3	319.8	320.4	321.0	322.1	323.0	324.0	325.0	325.4	325.6



TEST NUMBER: P332508-830

CATALOG NUMBER: S124DIP-S350D810U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	356.9	357.9	358.7	359.7	360.3	360.8	361.2	361.7	362.1	362.1	362.0
115°	414.6	415.2	415.7	416.1	416.3	416.1	415.9	415.8	415.7	415.9	416.3
117.5°	467.1	467.8	468.4	469.1	469.7	470.0	470.3	470.7	471.1	471.0	470.9
120°	502.6	503.2	503.9	504.4	504.7	504.5	504.4	504.3	504.1	504.4	504.7
122.5°	535.3	535.6	536.0	536.5	536.8	537.0	537.2	537.4	537.7	537.9	538.1
125°	582.9	583.5	584.2	584.8	584.9	584.7	584.4	584.0	583.7	584.2	584.7
127.5°	627.2	627.4	627.5	627.6	628.1	628.9	629.6	630.4	631.1	631.0	630.9
130°	656.1	656.2	656.4	656.6	656.9	657.3	657.9	658.4	658.8	659.0	659.2
132.5°	682.7	683.1	683.3	683.6	684.1	684.7	685.3	685.9	686.5	686.7	686.9
135°	722.1	721.9	721.7	721.6	721.8	722.5	723.1	723.8	724.4	724.7	725.1
137.5°	757.5	757.6	757.6	757.7	758.1	758.8	759.6	760.3	761.0	761.4	761.7
140°	780.8	781.1	781.5	781.7	782.1	782.4	782.8	783.1	783.3	783.9	784.4
142.5°	801.6	802.3	802.9	803.4	803.8	804.0	804.3	804.5	804.6	805.0	805.3
145°	833.3	833.8	834.2	834.7	835.0	835.0	835.0	835.0	835.0	835.2	835.3
147.5°	858.9	859.8	860.7	861.7	862.0	861.9	861.7	861.5	861.4	861.5	861.7
150°	876.9	877.6	878.3	878.8	879.1	878.9	878.8	878.6	878.4	878.4	878.4
152.5°	892.1	892.6	893.2	893.7	893.8	893.5	893.2	892.9	892.6	892.9	893.2
155°	913.2	913.4	913.6	913.8	913.6	913.1	912.6	912.1	911.6	912.3	912.9
157.5°	931.1	931.0	930.9	930.9	930.5	929.9	929.4	928.9	928.3	929.2	930.0
160°	941.3	940.8	940.4	939.9	939.5	939.4	939.2	939.1	938.9	939.9	940.8
162.5°	950.6	950.0	949.4	948.8	948.4	948.2	948.1	947.9	947.7	948.8	949.7
165°	962.4	961.6	960.7	960.0	959.5	959.5	959.5	959.5	959.5	960.8	962.1
167.5°	971.8	970.9	970.1	969.2	968.7	968.7	968.6	968.5	968.4	969.8	971.3
170°	976.9	976.0	975.0	974.0	973.6	973.7	973.9	974.1	974.3	975.5	976.9
172.5°	980.5	979.5	978.5	977.6	977.1	977.3	977.5	977.6	977.8	979.1	980.4
175°	984.3	983.4	982.4	981.4	981.0	981.2	981.3	981.5	981.7	983.1	984.6
177.5°	986.2	985.2	984.3	983.4	983.1	983.4	983.6	983.9	984.1	985.1	986.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



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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°	9.1	9.2	9.1	8.9	8.8	8.9	8.4
90°	19.1	20.2	20.8	21.1	21.5	21.8	22.1
92.5°	18.6	19.5	20.1	20.2	20.2	20.3	20.4
95°	19.1	20.2	20.7	20.9	21.0	21.2	21.4
97.5°	19.8	19.9	20.0	20.2	20.3	20.5	20.6
100°	24.0	21.3	20.0	20.2	20.3	20.5	20.6
102.5°	66.2	36.1	21.1	21.1	21.1	21.2	21.2
105°	234.3	235.8	233.7	227.7	221.8	215.9	210.0
107.5°	288.8	289.5	290.2	290.9	291.4	292.1	292.8
110°	326.0	326.3	326.7	327.3	327.7	328.2	328.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	361.9	361.8	362.1	362.8	363.4	364.0	364.7
115°	416.6	417.0	417.2	417.2	417.2	417.2	417.2
117.5°	470.9	470.8	470.7	470.7	470.6	470.5	470.5
120°	505.1	505.4	505.4	505.1	504.7	504.4	504.1
122.5°	538.3	538.5	538.4	538.1	537.7	537.4	537.1
125°	585.1	585.6	586.0	586.2	586.3	586.4	586.6
127.5°	630.8	630.7	630.7	630.5	630.4	630.3	630.1
130°	659.3	659.5	659.6	659.6	659.6	659.6	659.6
132.5°	687.0	687.2	687.2	687.1	686.9	686.8	686.7
135°	725.4	725.8	726.0	726.4	726.7	727.1	727.4
137.5°	762.0	762.4	762.5	762.4	762.3	762.2	762.1
140°	784.9	785.3	785.7	785.9	786.0	786.2	786.4
142.5°	805.7	806.1	806.3	806.3	806.3	806.3	806.3
145°	835.5	835.7	835.8	836.2	836.5	836.9	837.2
147.5°	861.8	861.9	862.0	862.2	862.3	862.5	862.7
150°	878.4	878.4	878.5	878.7	878.8	879.0	879.2
152.5°	893.4	893.6	893.7	893.6	893.5	893.4	893.3
155°	913.6	914.3	914.4	913.8	913.3	912.9	912.4
157.5°	930.9	931.7	931.7	930.9	930.0	929.2	928.3
160°	941.9	942.8	942.8	941.9	940.8	939.9	938.9
162.5°	950.6	951.7	951.6	950.5	949.3	948.3	947.2
165°	963.5	964.8	964.7	963.2	961.8	960.3	958.8
167.5°	972.7	974.1	974.0	972.4	970.7	969.1	967.5
170°	978.2	979.5	979.3	977.7	976.1	974.4	972.8
172.5°	981.8	983.1	982.8	981.1	979.3	977.5	975.7
175°	986.1	987.5	987.3	985.3	983.4	981.4	979.4
177.5°	987.3	988.4	988.1	986.5	985.0	983.4	981.8
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3

(END OF REPORT)