

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: P333180-930

Luminaire Tested: **S125DIP-S610D810U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333180-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S610D810U930-4F0-1E-UDD-A4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4431.9 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

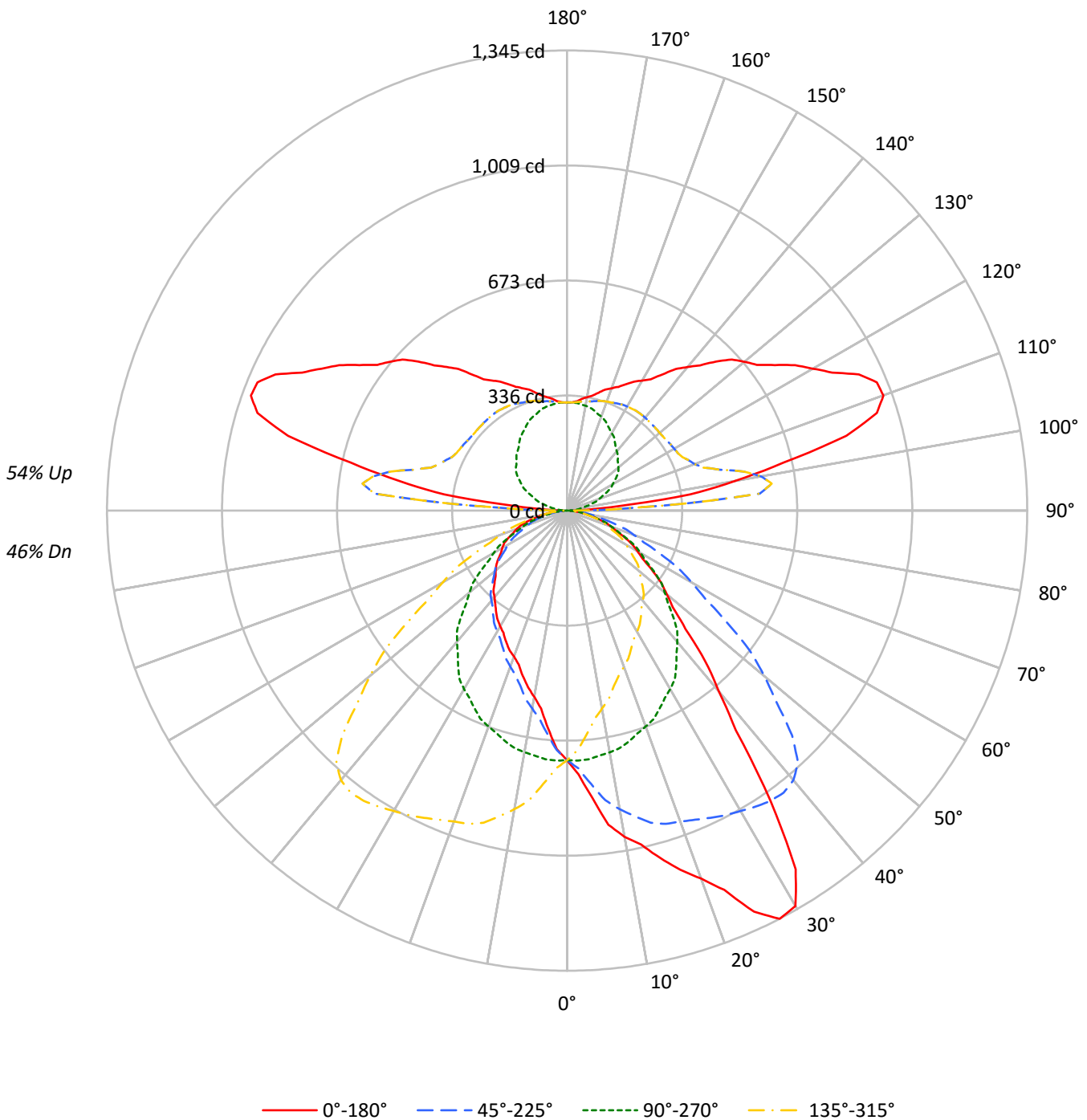
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46				
1	97	93	89	86	89	86	82	79	72	69	67	59	57	56	47	46	45	40				
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	33				
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	37	35	33	29				
4	74	64	56	50	68	59	52	47	50	44	40	41	37	34	33	31	28	25				
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19				
7	58	46	38	32	53	43	36	31	36	31	27	30	26	23	25	22	19	17				
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15				
9	50	38	30	25	46	35	29	24	30	25	21	25	21	18	21	18	16	13				
10	47	35	28	23	43	32	26	22	28	23	19	24	19	17	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4713	4713	4713	4713
5°	5457	4729	4140	4729
10°	6349	4704	3628	4704
15°	7029	4670	3346	4670
20°	7867	4615	3120	4615
25°	9217	4554	3011	4554
30°	9955	4492	2915	4492
35°	8185	4378	2852	4378
40°	5818	4220	2783	4220
45°	4469	4005	2744	4005
50°	3815	3741	2739	3741
55°	3397	3480	2762	3480
60°	3065	3196	2833	3196
65°	2830	2911	2905	2911
70°	2572	2613	2948	2613
75°	2273	2303	2922	2303
80°	1912	1878	2670	1878
85°	1519	1356	2156	1356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.6
10°-20°	209.2	4.7
20°-30°	339.6	7.7
30°-40°	414.3	9.3
40°-50°	376.9	8.5
50°-60°	300.2	6.8
60°-70°	209.1	4.7
70°-80°	111.5	2.5
80°-90°	29.9	0.7
90°-100°	229.2	5.2
100°-110°	492.7	11.1
110°-120°	462.4	10.4
120°-130°	374.7	8.5
130°-140°	300.7	6.8
140°-150°	226.9	5.1
150°-160°	159.7	3.6
160°-170°	94.2	2.1
170°-180°	30.6	0.7
0°-30°	619.0	14.0
0°-40°	1033.3	23.3
0°-60°	1710.3	38.6
0°-90°	2060.8	46.5
90°-120°	1184.3	26.7
90°-150°	2086.6	47.1
90°-180°	2371.0	53.5
0°-180°	4431.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	730	730	730	730	730	
5°	842	729	639	729	842	85
15°	1051	698	500	698	1051	301
25°	1293	639	422	639	1293	591
35°	1038	555	362	555	1038	635
45°	489	438	300	438	489	392
55°	302	309	245	309	302	272
65°	185	190	190	190	185	184
75°	91	92	117	92	91	98
85°	20	18	29	18	20	24
90°	15	1	15	1	15	11
95°	150	21	150	21	150	212
105°	845	72	845	72	845	840
115°	941	129	941	129	941	919
125°	741	178	741	178	741	671
135°	616	209	616	209	616	477
145°	486	244	486	244	486	309
155°	407	278	407	278	407	190
165°	357	304	357	304	357	102
175°	321	316	321	316	321	31
180°	316	316	316	316	316	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7
2.5°	771.8	770.8	769.8	767.8	769.3	765.1	763.1	759.7	755.5	754.0	752.2
5°	841.8	843.3	844.9	838.4	839.0	834.7	824.8	816.7	810.2	801.8	796.0
7.5°	926.0	922.3	922.1	917.9	910.6	904.8	894.4	881.1	868.3	853.7	841.6
10°	968.2	968.5	965.7	960.7	953.0	947.4	933.8	920.8	905.0	886.4	873.1
12.5°	999.9	1001.2	997.7	991.0	987.2	974.7	964.0	948.5	929.8	914.9	894.6
15°	1051.2	1047.7	1045.3	1036.9	1030.4	1017.4	1000.4	984.2	963.8	944.9	926.0
17.5°	1100.6	1103.3	1098.7	1091.0	1070.9	1055.6	1032.8	1010.8	985.3	960.0	937.4
20°	1144.7	1147.2	1140.0	1126.7	1102.6	1087.4	1057.4	1028.8	999.5	966.9	942.2
22.5°	1199.7	1197.8	1188.1	1167.8	1147.0	1118.8	1086.4	1051.7	1014.8	978.0	945.1
25°	1293.4	1280.3	1274.5	1249.4	1221.8	1180.6	1136.0	1085.2	1039.4	990.8	948.7
27.5°	1345.2	1341.2	1334.6	1317.1	1288.2	1244.1	1191.6	1129.7	1064.9	1003.6	948.4
30°	1334.9	1335.5	1336.1	1330.5	1312.0	1278.8	1226.5	1159.8	1083.0	1014.0	950.2
32.5°	1242.7	1253.9	1264.8	1277.5	1282.7	1276.4	1243.6	1183.4	1104.4	1025.9	949.2
35°	1038.1	1041.5	1076.6	1111.3	1158.3	1194.9	1219.4	1192.7	1126.1	1036.0	948.0
37.5°	809.4	826.2	850.4	889.7	957.6	1018.4	1096.7	1132.6	1111.1	1039.3	945.8
40°	690.1	705.6	721.3	761.2	818.6	892.3	981.1	1057.0	1074.7	1028.8	938.4
42.5°	597.9	610.2	627.7	657.7	705.6	770.9	855.8	955.0	1015.9	998.7	922.8
45°	489.3	497.1	510.7	534.6	569.2	620.4	695.3	803.7	898.1	929.4	885.7
47.5°	418.8	418.8	429.4	445.9	470.9	514.3	569.7	654.7	755.5	830.2	826.7
50°	379.7	378.1	386.5	400.8	420.6	449.4	502.4	570.2	667.2	751.7	775.2
52.5°	346.0	346.2	351.3	361.8	378.5	403.1	442.6	503.8	586.6	673.4	717.7
55°	301.7	300.4	306.3	313.4	325.5	341.6	370.1	416.9	484.0	569.6	627.1
57.5°	261.1	264.4	266.8	271.7	281.8	292.5	316.6	350.9	404.2	477.6	538.5
60°	237.3	240.7	242.5	247.4	255.5	264.8	283.4	311.3	356.2	419.4	479.7
62.5°	215.9	218.6	219.2	223.6	230.2	239.3	253.9	277.3	312.8	368.0	427.2
65°	185.2	185.2	186.5	191.1	194.2	202.3	213.4	230.4	258.9	302.0	352.5
67.5°	155.6	157.1	156.8	158.8	161.7	168.0	175.9	190.0	211.1	242.5	282.9
70°	136.2	137.5	137.2	138.8	141.9	145.9	152.4	165.7	180.8	207.8	242.5
72.5°	119.0	119.4	118.6	120.7	122.5	126.0	133.3	140.4	154.6	177.3	205.9
75°	91.1	91.6	92.3	93.5	95.4	97.3	100.9	108.1	117.4	134.4	152.7
77.5°	68.2	67.1	68.6	68.4	69.5	70.8	74.1	77.9	85.5	96.3	110.5
80°	51.4	51.7	51.7	52.0	53.6	54.5	57.3	60.1	66.0	74.0	83.9
82.5°	37.5	38.3	37.8	38.4	39.7	40.4	41.9	44.2	47.6	54.0	61.1
85°	20.5	18.9	19.5	20.1	20.1	20.5	21.7	22.6	24.5	26.9	29.8
87.5°	8.9	9.4	9.5	9.5	9.7	9.5	10.4	10.2	10.8	11.5	12.2
90°	14.7	14.7	14.0	14.0	14.0	12.7	12.1	11.5	10.8	10.2	8.9
92.5°	40.7	41.7	42.6	44.1	52.3	61.7	82.0	113.0	166.4	205.5	208.8
95°	149.8	160.0	165.1	184.3	229.5	283.1	361.4	458.4	552.7	564.8	460.9
97.5°	362.1	370.2	388.7	424.4	463.8	538.3	614.7	682.7	699.3	603.2	411.6
100°	497.3	507.4	531.0	576.9	620.9	687.2	752.8	784.1	735.0	575.7	367.2
102.5°	648.2	655.8	681.4	714.1	761.2	806.0	837.6	818.2	713.6	527.2	333.5
105°	844.7	852.3	865.0	886.1	906.5	913.5	885.5	798.1	645.1	462.2	300.9
107.5°	948.9	954.1	958.2	958.4	948.0	914.8	842.8	726.2	575.3	417.4	287.1
110°	983.7	983.7	979.2	967.0	938.3	884.2	794.3	673.2	535.5	396.5	283.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	979.6	974.9	963.8	943.1	901.2	837.2	746.3	631.4	505.9	384.3	283.1
115°	940.9	932.6	914.8	884.2	834.5	765.0	677.7	578.9	473.6	371.0	284.9
117.5°	873.2	868.1	850.4	818.8	769.1	705.3	630.1	544.9	454.4	364.5	289.2
120°	829.3	824.3	807.1	776.4	729.3	673.2	603.1	526.5	443.7	361.4	293.3
122.5°	790.6	786.0	768.8	740.8	698.7	646.1	583.7	512.8	434.5	358.9	296.8
125°	741.4	735.0	721.0	694.9	659.2	613.3	557.8	492.8	422.0	355.7	302.8
127.5°	699.3	696.5	683.2	660.1	627.8	584.8	533.0	472.4	410.5	354.2	309.6
130°	676.4	672.5	659.8	638.8	606.9	565.4	515.8	459.6	402.9	353.2	313.6
132.5°	653.4	649.1	637.3	616.3	584.4	544.5	499.4	446.9	396.8	353.2	318.2
135°	615.8	612.0	600.5	579.4	551.4	515.1	474.3	430.3	389.5	353.2	324.5
137.5°	575.7	571.4	560.8	541.8	516.6	485.8	451.8	416.3	383.0	353.9	330.2
140°	547.6	544.4	534.8	518.3	494.6	467.9	438.5	408.6	379.9	354.4	332.7
142.5°	521.5	518.9	509.9	495.9	475.8	452.6	427.4	402.0	377.4	355.0	334.3
145°	485.8	483.2	476.2	465.4	450.0	432.8	413.1	393.3	373.6	354.4	336.0
147.5°	455.4	454.3	450.2	441.5	429.4	416.4	401.2	385.1	369.6	352.8	336.6
150°	438.5	438.0	435.4	427.8	418.2	406.7	394.6	380.6	366.6	351.2	336.6
152.5°	425.3	424.7	422.2	416.0	408.0	399.1	388.0	375.4	363.0	349.2	336.1
155°	407.3	406.7	404.8	400.3	394.0	386.9	378.1	367.9	357.0	345.5	334.7
157.5°	391.3	391.4	389.6	386.0	381.0	375.4	368.6	360.2	351.4	341.7	333.0
160°	380.6	381.2	379.9	376.7	372.3	367.9	361.4	355.1	346.8	339.2	331.5
162.5°	370.9	371.0	370.7	368.1	364.6	360.7	355.3	349.4	342.7	336.1	330.0
165°	357.0	357.0	357.0	355.7	353.2	350.0	346.2	341.7	336.6	331.5	327.7
167.5°	344.2	344.4	344.9	343.7	342.4	340.1	337.2	334.3	330.6	327.0	324.1
170°	336.6	337.2	337.2	336.6	335.3	334.0	332.2	330.2	327.0	324.5	322.5
172.5°	329.5	330.1	331.1	330.0	329.7	329.0	327.5	325.6	323.4	321.4	320.5
175°	320.7	321.3	322.5	322.0	322.0	322.0	320.7	320.7	318.7	318.1	318.1
177.5°	316.2	316.2	317.7	317.2	317.7	317.7	317.7	317.2	316.7	316.2	316.2
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7
2.5°	750.7	749.0	747.1	743.6	739.3	737.1	733.7	731.4	726.9	723.3	719.3
5°	788.8	780.8	773.4	763.8	753.3	746.4	738.3	729.4	720.1	710.5	699.9
7.5°	828.3	814.1	798.6	781.9	765.6	750.6	736.3	722.3	709.1	693.2	679.8
10°	854.8	836.8	817.7	795.0	773.1	753.8	734.3	717.3	699.9	681.3	665.0
12.5°	881.3	857.4	830.3	805.4	779.0	755.9	732.9	711.1	689.3	668.7	649.6
15°	900.0	879.0	853.9	818.6	788.8	756.9	726.6	698.4	672.1	649.1	625.0
17.5°	912.3	885.3	858.3	824.4	785.5	749.7	715.3	683.1	653.5	624.4	601.1
20°	914.6	886.7	858.5	825.4	785.5	744.5	710.2	671.5	639.5	609.5	581.0
22.5°	913.9	882.2	851.6	817.4	778.5	740.9	699.3	659.8	625.2	595.7	565.9
25°	906.9	873.1	834.7	800.3	761.9	721.9	679.8	639.0	603.6	569.9	540.5
27.5°	901.0	857.2	813.8	773.6	736.5	699.9	659.7	617.8	578.6	544.4	516.7
30°	893.8	845.8	796.9	755.0	717.0	681.3	643.3	602.4	561.5	528.1	498.3
32.5°	887.4	831.4	779.8	734.3	694.0	659.3	624.2	585.3	545.2	511.2	481.5
35°	875.0	810.2	751.1	699.6	656.6	621.0	591.6	555.3	518.4	485.6	457.1
37.5°	859.2	782.4	718.8	665.0	617.8	580.2	552.9	525.1	489.7	458.0	432.3
40°	846.8	762.5	695.3	640.2	591.3	552.2	526.8	500.5	471.1	441.6	414.4
42.5°	831.1	744.7	671.5	612.2	563.8	525.7	499.0	476.7	450.8	423.3	398.0
45°	802.5	712.3	633.1	569.2	520.3	482.8	455.3	438.5	419.1	393.1	371.7
47.5°	760.3	673.5	591.5	525.6	475.2	440.4	414.6	398.5	384.8	365.5	346.1
50°	722.8	644.5	561.5	496.2	445.6	410.7	386.9	372.3	360.5	345.6	329.2
52.5°	681.0	608.1	532.1	467.4	417.4	382.9	359.5	346.7	337.0	326.3	310.1
55°	614.5	552.5	481.9	420.6	374.5	340.7	320.2	309.1	301.0	293.0	283.1
57.5°	541.2	492.8	430.2	374.1	331.7	300.9	281.8	271.0	264.7	260.6	254.8
60°	489.7	448.2	394.3	343.2	301.7	274.4	255.8	247.4	242.2	238.8	234.5
62.5°	441.8	407.7	357.8	311.2	274.9	249.2	232.5	224.5	219.4	217.8	214.1
65°	371.4	345.0	303.9	265.1	234.2	212.1	198.2	190.5	187.4	185.5	185.8
67.5°	301.9	285.8	252.8	219.8	195.0	176.6	165.4	159.5	157.9	155.5	155.4
70°	259.5	247.4	219.6	190.8	168.8	154.6	144.6	138.4	136.9	135.7	135.3
72.5°	222.1	211.6	187.4	164.3	144.6	132.0	123.8	120.1	117.6	116.8	116.8
75°	167.0	161.0	141.9	123.6	110.0	101.3	95.7	92.3	90.4	90.1	90.4
77.5°	118.7	113.6	101.3	88.4	79.8	73.2	68.5	67.3	65.2	65.3	65.0
80°	89.2	85.8	78.0	67.8	60.7	55.1	52.7	50.5	49.9	48.9	49.9
82.5°	64.7	61.0	55.8	49.2	43.4	40.0	37.5	36.9	36.4	36.0	36.2
85°	31.9	32.2	29.1	24.1	21.7	19.8	18.3	18.3	17.9	17.7	17.9
87.5°	12.6	11.8	10.7	9.7	8.2	7.2	6.7	6.8	6.2	6.2	6.7
90°	8.3	7.0	6.4	5.1	3.8	2.5	1.3	0.7	1.3	2.5	3.8
92.5°	145.4	87.1	52.3	33.7	22.7	14.8	9.5	7.7	9.5	14.8	22.7
95°	284.9	144.7	76.5	47.8	33.8	26.7	21.7	21.0	21.7	26.7	33.8
97.5°	227.5	124.7	79.6	58.9	46.3	39.3	35.7	34.9	35.7	39.3	46.3
100°	206.5	123.7	86.7	67.6	55.4	48.4	45.9	44.6	45.9	48.4	55.4
102.5°	197.9	128.2	95.4	76.7	65.6	58.1	56.1	55.4	56.1	58.1	65.6
105°	194.4	137.7	109.7	91.8	81.6	75.3	72.1	72.1	72.1	75.3	81.6
107.5°	200.3	151.7	124.6	108.5	97.9	92.7	89.6	88.4	89.6	92.7	97.9
110°	205.9	161.9	135.7	119.2	109.7	103.9	101.3	100.1	101.3	103.9	109.7



TEST NUMBER: P333180-930

CATALOG NUMBER: S125DIP-S610D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	213.0	171.6	146.5	130.4	120.8	115.1	113.1	111.8	113.1	115.1	120.8
115°	223.7	186.8	163.2	147.2	137.7	132.0	130.0	128.7	130.0	132.0	137.7
117.5°	236.0	202.4	180.0	164.6	153.8	148.1	146.0	144.1	146.0	148.1	153.8
120°	244.2	213.5	191.3	175.3	164.4	158.7	156.2	154.3	156.2	158.7	164.4
122.5°	253.3	224.3	201.9	186.1	174.1	168.4	166.4	165.0	166.4	168.4	174.1
125°	265.8	238.4	217.4	200.8	188.7	183.0	179.8	178.5	179.8	183.0	188.7
127.5°	277.3	252.1	231.8	215.2	202.4	195.1	191.0	189.1	191.0	195.1	202.4
130°	284.9	260.7	241.0	224.4	211.0	202.7	197.6	195.7	197.6	202.7	211.0
132.5°	291.6	268.9	249.2	232.5	218.7	209.4	203.3	200.8	203.3	209.4	218.7
135°	300.9	279.9	260.1	242.9	229.5	219.3	211.7	209.1	211.7	219.3	229.5
137.5°	307.8	287.6	269.6	251.9	238.8	228.6	221.4	219.6	221.4	228.6	238.8
140°	312.3	293.3	274.8	257.6	245.4	235.2	227.6	225.7	227.6	235.2	245.4
142.5°	315.0	296.8	279.3	263.2	251.5	241.3	234.2	232.8	234.2	241.3	251.5
145°	318.7	302.8	286.3	271.6	260.1	251.2	244.8	243.5	244.8	251.2	260.1
147.5°	321.1	306.6	292.1	279.2	269.3	261.0	255.5	254.7	255.5	261.0	269.3
150°	322.5	309.2	295.1	284.3	275.4	267.1	262.6	261.4	262.6	267.1	275.4
152.5°	323.6	311.7	298.7	288.9	280.5	273.2	269.3	268.5	269.3	273.2	280.5
155°	324.5	314.3	303.5	294.5	288.1	281.8	277.9	277.9	277.9	281.8	288.1
157.5°	325.1	316.4	307.1	300.4	294.7	289.3	286.3	286.3	286.3	289.3	294.7
160°	325.1	317.5	309.2	303.5	298.3	293.9	291.3	292.0	291.3	293.9	298.3
162.5°	324.6	318.5	311.2	306.5	302.4	298.5	296.0	296.5	296.0	298.5	302.4
165°	323.8	318.7	313.6	309.8	307.3	304.1	302.1	303.5	302.1	304.1	307.3
167.5°	322.3	318.7	314.5	312.1	310.3	308.5	307.4	308.0	307.4	308.5	310.3
170°	321.3	318.7	315.5	313.6	312.3	311.1	310.5	311.1	310.5	311.1	312.3
172.5°	320.2	318.2	315.5	314.6	313.9	312.6	312.0	313.2	312.0	312.6	313.9
175°	318.7	317.5	315.5	315.5	315.5	315.0	314.3	315.5	314.3	315.0	315.5
177.5°	317.2	316.7	315.7	315.7	316.2	315.7	315.7	316.7	315.7	315.7	316.2
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2



TEST NUMBER: P333180-930

CATALOG NUMBER: S125DIP-S610D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7
2.5°	717.1	714.3	712.1	707.1	704.4	700.7	697.7	700.9	697.5	699.0	696.8
5°	694.7	686.0	679.8	670.8	663.1	656.0	650.7	649.8	647.3	646.0	642.4
7.5°	667.8	657.0	646.3	634.5	624.6	614.6	608.1	602.8	599.2	594.6	591.4
10°	651.9	637.4	625.0	610.7	598.3	587.5	578.9	574.5	570.5	564.6	562.5
12.5°	632.3	617.3	602.2	586.9	575.1	563.0	555.5	549.0	546.3	539.6	538.9
15°	608.9	586.3	571.4	556.0	539.5	529.6	523.4	516.3	513.2	508.6	505.2
17.5°	580.9	560.7	542.1	526.1	512.0	503.7	495.9	491.1	485.8	482.7	477.1
20°	560.6	541.4	522.8	505.7	494.9	485.3	479.2	474.5	468.9	467.3	461.8
22.5°	543.5	522.3	504.4	490.2	478.3	467.5	460.8	457.6	453.8	449.0	447.9
25°	515.7	493.7	478.5	464.2	453.7	443.8	439.2	435.1	431.5	428.0	426.8
27.5°	491.6	472.0	454.0	441.1	431.9	422.9	418.8	413.9	411.2	408.5	405.1
30°	474.8	454.7	438.9	426.5	416.5	408.5	404.1	400.8	398.3	395.8	394.0
32.5°	457.5	438.8	423.5	411.4	401.5	395.4	391.5	389.1	386.4	383.4	381.1
35°	434.6	414.1	399.3	388.7	380.9	376.3	371.9	369.8	366.7	366.7	364.2
37.5°	408.7	391.0	377.9	368.3	361.3	357.2	352.5	351.1	349.0	347.7	346.9
40°	393.3	376.9	364.5	354.9	347.5	344.1	340.4	337.9	336.6	335.1	334.5
42.5°	377.5	361.8	349.9	341.0	334.6	331.7	328.2	326.5	324.0	322.0	321.6
45°	353.4	338.2	327.3	320.2	314.7	311.3	309.1	305.4	304.1	301.7	301.3
47.5°	330.5	315.9	305.3	299.5	294.6	291.8	288.4	284.7	283.2	282.0	281.9
50°	313.4	300.1	290.2	284.6	280.0	276.0	272.6	270.1	269.1	269.1	269.8
52.5°	296.1	284.8	276.3	269.5	265.1	260.8	257.7	256.2	254.8	256.2	257.4
55°	270.7	259.3	253.1	246.5	242.2	237.3	235.7	235.1	234.2	236.6	237.8
57.5°	243.8	235.8	228.5	222.1	218.2	215.3	213.2	212.9	214.6	215.7	219.8
60°	226.7	217.4	210.9	205.9	201.3	199.4	198.9	198.2	199.4	202.8	208.1
62.5°	207.9	200.3	193.3	189.6	186.2	183.1	183.0	183.4	185.8	189.7	195.0
65°	180.3	173.7	169.1	164.8	162.0	160.1	160.8	162.0	164.8	170.1	175.9
67.5°	152.2	147.7	143.6	140.1	137.4	137.4	138.0	139.9	143.2	149.2	154.6
70°	134.1	129.1	125.7	124.2	122.1	120.8	122.6	125.7	128.5	134.1	138.8
72.5°	116.0	111.8	109.2	108.1	107.1	106.2	106.8	110.1	113.9	119.5	124.9
75°	89.2	87.6	85.8	84.5	83.6	84.2	84.9	88.0	91.1	96.9	103.1
77.5°	65.1	63.5	62.4	62.0	61.6	61.9	63.6	65.9	69.0	73.2	77.9
80°	49.2	48.6	48.0	47.7	47.7	48.0	50.5	52.0	54.8	58.9	62.5
82.5°	35.9	35.5	35.4	35.3	35.5	35.6	37.1	39.1	41.4	44.5	47.7
85°	18.9	18.3	19.2	19.5	18.9	19.8	20.5	21.7	22.6	24.1	25.7
87.5°	7.2	8.0	7.8	8.3	8.5	9.2	9.1	10.2	10.8	11.5	11.5
90°	5.1	6.4	7.0	8.3	8.9	10.2	10.8	11.5	12.1	12.7	14.0
92.5°	33.7	52.3	87.1	145.4	208.8	205.5	166.4	113.0	82.0	61.7	52.3
95°	47.8	76.5	144.7	284.9	460.9	564.8	552.7	458.4	361.4	283.1	229.5
97.5°	58.9	79.6	124.7	227.5	411.6	603.2	699.3	682.7	614.7	538.3	463.8
100°	67.6	86.7	123.7	206.5	367.2	575.7	735.0	784.1	752.8	687.2	620.9
102.5°	76.7	95.4	128.2	197.9	333.5	527.2	713.6	818.2	837.6	806.0	761.2
105°	91.8	109.7	137.7	194.4	300.9	462.2	645.1	798.1	885.5	913.5	906.5
107.5°	108.5	124.6	151.7	200.3	287.1	417.4	575.3	726.2	842.8	914.8	948.0
110°	119.2	135.7	161.9	205.9	283.1	396.5	535.5	673.2	794.3	884.2	938.3



TEST NUMBER: P333180-930

CATALOG NUMBER: S125DIP-S610D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	130.4	146.5	171.6	213.0	283.1	384.3	505.9	631.4	746.3	837.2	901.2
115°	147.2	163.2	186.8	223.7	284.9	371.0	473.6	578.9	677.7	765.0	834.5
117.5°	164.6	180.0	202.4	236.0	289.2	364.5	454.4	544.9	630.1	705.3	769.1
120°	175.3	191.3	213.5	244.2	293.3	361.4	443.7	526.5	603.1	673.2	729.3
122.5°	186.1	201.9	224.3	253.3	296.8	358.9	434.5	512.8	583.7	646.1	698.7
125°	200.8	217.4	238.4	265.8	302.8	355.7	422.0	492.8	557.8	613.3	659.2
127.5°	215.2	231.8	252.1	277.3	309.6	354.2	410.5	472.4	533.0	584.8	627.8
130°	224.4	241.0	260.7	284.9	313.6	353.2	402.9	459.6	515.8	565.4	606.9
132.5°	232.5	249.2	268.9	291.6	318.2	353.2	396.8	446.9	499.4	544.5	584.4
135°	242.9	260.1	279.9	300.9	324.5	353.2	389.5	430.3	474.3	515.1	551.4
137.5°	251.9	269.6	287.6	307.8	330.2	353.9	383.0	416.3	451.8	485.8	516.6
140°	257.6	274.8	293.3	312.3	332.7	354.4	379.9	408.6	438.5	467.9	494.6
142.5°	263.2	279.3	296.8	315.0	334.3	355.0	377.4	402.0	427.4	452.6	475.8
145°	271.6	286.3	302.8	318.7	336.0	354.4	373.6	393.3	413.1	432.8	450.0
147.5°	279.2	292.1	306.6	321.1	336.6	352.8	369.6	385.1	401.2	416.4	429.4
150°	284.3	295.1	309.2	322.5	336.6	351.2	366.6	380.6	394.6	406.7	418.2
152.5°	288.9	298.7	311.7	323.6	336.1	349.2	363.0	375.4	388.0	399.1	408.0
155°	294.5	303.5	314.3	324.5	334.7	345.5	357.0	367.9	378.1	386.9	394.0
157.5°	300.4	307.1	316.4	325.1	333.0	341.7	351.4	360.2	368.6	375.4	381.0
160°	303.5	309.2	317.5	325.1	331.5	339.2	346.8	355.1	361.4	367.9	372.3
162.5°	306.5	311.2	318.5	324.6	330.0	336.1	342.7	349.4	355.3	360.7	364.6
165°	309.8	313.6	318.7	323.8	327.7	331.5	336.6	341.7	346.2	350.0	353.2
167.5°	312.1	314.5	318.7	322.3	324.1	327.0	330.6	334.3	337.2	340.1	342.4
170°	313.6	315.5	318.7	321.3	322.5	324.5	327.0	330.2	332.2	334.0	335.3
172.5°	314.6	315.5	318.2	320.2	320.5	321.4	323.4	325.6	327.5	329.0	329.7
175°	315.5	315.5	317.5	318.7	318.1	318.1	318.7	320.7	320.7	322.0	322.0
177.5°	315.7	315.7	316.7	317.2	316.2	316.2	316.7	317.2	317.7	317.7	317.7
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2



TEST NUMBER: P333180-930

CATALOG NUMBER: S125DIP-S610D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7
2.5°	695.2	697.0	695.5	697.5	695.5	697.0	695.2	696.8	699.0	697.5	700.9
5°	640.8	638.0	639.8	638.6	639.8	638.0	640.8	642.4	646.0	647.3	649.8
7.5°	590.5	587.8	584.8	583.3	584.8	587.8	590.5	591.4	594.6	599.2	602.8
10°	559.1	555.6	555.3	553.2	555.3	555.6	559.1	562.5	564.6	570.5	574.5
12.5°	536.0	532.8	529.3	528.4	529.3	532.8	536.0	538.9	539.6	546.3	549.0
15°	503.3	500.8	498.6	500.5	498.6	500.8	503.3	505.2	508.6	513.2	516.3
17.5°	476.1	474.0	473.7	471.4	473.7	474.0	476.1	477.1	482.7	485.8	491.1
20°	459.0	457.5	458.0	454.0	458.0	457.5	459.0	461.8	467.3	468.9	474.5
22.5°	445.4	442.3	442.0	441.2	442.0	442.3	445.4	447.9	449.0	453.8	457.6
25°	424.0	422.5	420.9	422.5	420.9	422.5	424.0	426.8	428.0	431.5	435.1
27.5°	405.4	403.5	403.1	403.2	403.1	403.5	405.4	405.1	408.5	411.2	413.9
30°	394.0	390.9	391.2	390.9	391.2	390.9	394.0	394.0	395.8	398.3	400.8
32.5°	381.6	379.4	379.0	378.5	379.0	379.4	381.6	381.1	383.4	386.4	389.1
35°	363.3	363.3	361.7	361.7	361.7	363.3	363.3	364.2	366.7	366.7	369.8
37.5°	346.1	345.8	344.9	345.0	344.9	345.8	346.1	346.9	347.7	349.0	351.1
40°	333.2	333.0	332.0	330.1	332.0	333.0	333.2	334.5	335.1	336.6	337.9
42.5°	320.9	319.8	319.4	318.8	319.4	319.8	320.9	321.6	322.0	324.0	326.5
45°	301.3	301.3	300.8	300.4	300.8	301.3	301.3	301.3	301.7	304.1	305.4
47.5°	282.4	283.0	284.1	284.0	284.1	283.0	282.4	281.9	282.0	283.2	284.7
50°	271.0	271.3	272.2	272.6	272.2	271.3	271.0	269.8	269.1	269.1	270.1
52.5°	258.4	260.2	261.3	261.1	261.3	260.2	258.4	257.4	256.2	254.8	256.2
55°	240.7	242.8	245.0	245.3	245.0	242.8	240.7	237.8	236.6	234.2	235.1
57.5°	223.1	226.2	228.4	229.2	228.4	226.2	223.1	219.8	215.7	214.6	212.9
60°	211.2	215.2	218.0	219.3	218.0	215.2	211.2	208.1	202.8	199.4	198.2
62.5°	199.8	204.3	207.2	207.4	207.2	204.3	199.8	195.0	189.7	185.8	183.4
65°	181.2	185.8	188.3	190.1	188.3	185.8	181.2	175.9	170.1	164.8	162.0
67.5°	161.1	165.8	168.5	170.0	168.5	165.8	161.1	154.6	149.2	143.2	139.9
70°	146.5	151.2	154.8	156.1	154.8	151.2	146.5	138.8	134.1	128.5	125.7
72.5°	132.2	136.2	139.3	140.7	139.3	136.2	132.2	124.9	119.5	113.9	110.1
75°	107.1	112.8	115.5	117.1	115.5	112.8	107.1	103.1	96.9	91.1	88.0
77.5°	82.7	87.7	89.4	90.2	89.4	87.7	82.7	77.9	73.2	69.0	65.9
80°	66.3	69.4	71.6	71.8	71.6	69.4	66.3	62.5	58.9	54.8	52.0
82.5°	51.0	53.5	54.2	55.0	54.2	53.5	51.0	47.7	44.5	41.4	39.1
85°	27.9	29.1	29.4	29.1	29.4	29.1	27.9	25.7	24.1	22.6	21.7
87.5°	12.0	11.7	11.8	12.3	11.8	11.7	12.0	11.5	11.5	10.8	10.2
90°	14.0	14.0	14.7	14.7	14.7	14.0	14.0	14.0	12.7	12.1	11.5
92.5°	44.1	42.6	41.7	40.7	41.7	42.6	44.1	52.3	61.7	82.0	113.0
95°	184.3	165.1	160.0	149.8	160.0	165.1	184.3	229.5	283.1	361.4	458.4
97.5°	424.4	388.7	370.2	362.1	370.2	388.7	424.4	463.8	538.3	614.7	682.7
100°	576.9	531.0	507.4	497.3	507.4	531.0	576.9	620.9	687.2	752.8	784.1
102.5°	714.1	681.4	655.8	648.2	655.8	681.4	714.1	761.2	806.0	837.6	818.2
105°	886.1	865.0	852.3	844.7	852.3	865.0	886.1	906.5	913.5	885.5	798.1
107.5°	958.4	958.2	954.1	948.9	954.1	958.2	958.4	948.0	914.8	842.8	726.2
110°	967.0	979.2	983.7	983.7	983.7	979.2	967.0	938.3	884.2	794.3	673.2



TEST NUMBER: P333180-930

CATALOG NUMBER: S125DIP-S610D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	943.1	963.8	974.9	979.6	974.9	963.8	943.1	901.2	837.2	746.3	631.4
115°	884.2	914.8	932.6	940.9	932.6	914.8	884.2	834.5	765.0	677.7	578.9
117.5°	818.8	850.4	868.1	873.2	868.1	850.4	818.8	769.1	705.3	630.1	544.9
120°	776.4	807.1	824.3	829.3	824.3	807.1	776.4	729.3	673.2	603.1	526.5
122.5°	740.8	768.8	786.0	790.6	786.0	768.8	740.8	698.7	646.1	583.7	512.8
125°	694.9	721.0	735.0	741.4	735.0	721.0	694.9	659.2	613.3	557.8	492.8
127.5°	660.1	683.2	696.5	699.3	696.5	683.2	660.1	627.8	584.8	533.0	472.4
130°	638.8	659.8	672.5	676.4	672.5	659.8	638.8	606.9	565.4	515.8	459.6
132.5°	616.3	637.3	649.1	653.4	649.1	637.3	616.3	584.4	544.5	499.4	446.9
135°	579.4	600.5	612.0	615.8	612.0	600.5	579.4	551.4	515.1	474.3	430.3
137.5°	541.8	560.8	571.4	575.7	571.4	560.8	541.8	516.6	485.8	451.8	416.3
140°	518.3	534.8	544.4	547.6	544.4	534.8	518.3	494.6	467.9	438.5	408.6
142.5°	495.9	509.9	518.9	521.5	518.9	509.9	495.9	475.8	452.6	427.4	402.0
145°	465.4	476.2	483.2	485.8	483.2	476.2	465.4	450.0	432.8	413.1	393.3
147.5°	441.5	450.2	454.3	455.4	454.3	450.2	441.5	429.4	416.4	401.2	385.1
150°	427.8	435.4	438.0	438.5	438.0	435.4	427.8	418.2	406.7	394.6	380.6
152.5°	416.0	422.2	424.7	425.3	424.7	422.2	416.0	408.0	399.1	388.0	375.4
155°	400.3	404.8	406.7	407.3	406.7	404.8	400.3	394.0	386.9	378.1	367.9
157.5°	386.0	389.6	391.4	391.3	391.4	389.6	386.0	381.0	375.4	368.6	360.2
160°	376.7	379.9	381.2	380.6	381.2	379.9	376.7	372.3	367.9	361.4	355.1
162.5°	368.1	370.7	371.0	370.9	371.0	370.7	368.1	364.6	360.7	355.3	349.4
165°	355.7	357.0	357.0	357.0	357.0	357.0	355.7	353.2	350.0	346.2	341.7
167.5°	343.7	344.9	344.4	344.2	344.4	344.9	343.7	342.4	340.1	337.2	334.3
170°	336.6	337.2	337.2	336.6	337.2	337.2	336.6	335.3	334.0	332.2	330.2
172.5°	330.0	331.1	330.1	329.5	330.1	331.1	330.0	329.7	329.0	327.5	325.6
175°	322.0	322.5	321.3	320.7	321.3	322.5	322.0	322.0	322.0	320.7	320.7
177.5°	317.2	317.7	316.2	316.2	316.2	317.7	317.2	317.7	317.7	317.7	317.2
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2



TEST NUMBER: P333180-930

CATALOG NUMBER: S125DIP-S610D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7
2.5°	697.7	700.7	704.4	707.1	712.1	714.3	717.1	719.3	723.3	726.9	731.4
5°	650.7	656.0	663.1	670.8	679.8	686.0	694.7	699.9	710.5	720.1	729.4
7.5°	608.1	614.6	624.6	634.5	646.3	657.0	667.8	679.8	693.2	709.1	722.3
10°	578.9	587.5	598.3	610.7	625.0	637.4	651.9	665.0	681.3	699.9	717.3
12.5°	555.5	563.0	575.1	586.9	602.2	617.3	632.3	649.6	668.7	689.3	711.1
15°	523.4	529.6	539.5	556.0	571.4	586.3	608.9	625.0	649.1	672.1	698.4
17.5°	495.9	503.7	512.0	526.1	542.1	560.7	580.9	601.1	624.4	653.5	683.1
20°	479.2	485.3	494.9	505.7	522.8	541.4	560.6	581.0	609.5	639.5	671.5
22.5°	460.8	467.5	478.3	490.2	504.4	522.3	543.5	565.9	595.7	625.2	659.8
25°	439.2	443.8	453.7	464.2	478.5	493.7	515.7	540.5	569.9	603.6	639.0
27.5°	418.8	422.9	431.9	441.1	454.0	472.0	491.6	516.7	544.4	578.6	617.8
30°	404.1	408.5	416.5	426.5	438.9	454.7	474.8	498.3	528.1	561.5	602.4
32.5°	391.5	395.4	401.5	411.4	423.5	438.8	457.5	481.5	511.2	545.2	585.3
35°	371.9	376.3	380.9	388.7	399.3	414.1	434.6	457.1	485.6	518.4	555.3
37.5°	352.5	357.2	361.3	368.3	377.9	391.0	408.7	432.3	458.0	489.7	525.1
40°	340.4	344.1	347.5	354.9	364.5	376.9	393.3	414.4	441.6	471.1	500.5
42.5°	328.2	331.7	334.6	341.0	349.9	361.8	377.5	398.0	423.3	450.8	476.7
45°	309.1	311.3	314.7	320.2	327.3	338.2	353.4	371.7	393.1	419.1	438.5
47.5°	288.4	291.8	294.6	299.5	305.3	315.9	330.5	346.1	365.5	384.8	398.5
50°	272.6	276.0	280.0	284.6	290.2	300.1	313.4	329.2	345.6	360.5	372.3
52.5°	257.7	260.8	265.1	269.5	276.3	284.8	296.1	310.1	326.3	337.0	346.7
55°	235.7	237.3	242.2	246.5	253.1	259.3	270.7	283.1	293.0	301.0	309.1
57.5°	213.2	215.3	218.2	222.1	228.5	235.8	243.8	254.8	260.6	264.7	271.0
60°	198.9	199.4	201.3	205.9	210.9	217.4	226.7	234.5	238.8	242.2	247.4
62.5°	183.0	183.1	186.2	189.6	193.3	200.3	207.9	214.1	217.8	219.4	224.5
65°	160.8	160.1	162.0	164.8	169.1	173.7	180.3	185.8	185.5	187.4	190.5
67.5°	138.0	137.4	137.4	140.1	143.6	147.7	152.2	155.4	155.5	157.9	159.5
70°	122.6	120.8	122.1	124.2	125.7	129.1	134.1	135.3	135.7	136.9	138.4
72.5°	106.8	106.2	107.1	108.1	109.2	111.8	116.0	116.8	116.8	117.6	120.1
75°	84.9	84.2	83.6	84.5	85.8	87.6	89.2	90.4	90.1	90.4	92.3
77.5°	63.6	61.9	61.6	62.0	62.4	63.5	65.1	65.0	65.3	65.2	67.3
80°	50.5	48.0	47.7	47.7	48.0	48.6	49.2	49.9	48.9	49.9	50.5
82.5°	37.1	35.6	35.5	35.3	35.4	35.5	35.9	36.2	36.0	36.4	36.9
85°	20.5	19.8	18.9	19.5	19.2	18.3	18.9	17.9	17.7	17.9	18.3
87.5°	9.1	9.2	8.5	8.3	7.8	8.0	7.2	6.7	6.2	6.2	6.8
90°	10.8	10.2	8.9	8.3	7.0	6.4	5.1	3.8	2.5	1.3	0.7
92.5°	166.4	205.5	208.8	145.4	87.1	52.3	33.7	22.7	14.8	9.5	7.7
95°	552.7	564.8	460.9	284.9	144.7	76.5	47.8	33.8	26.7	21.7	21.0
97.5°	699.3	603.2	411.6	227.5	124.7	79.6	58.9	46.3	39.3	35.7	34.9
100°	735.0	575.7	367.2	206.5	123.7	86.7	67.6	55.4	48.4	45.9	44.6
102.5°	713.6	527.2	333.5	197.9	128.2	95.4	76.7	65.6	58.1	56.1	55.4
105°	645.1	462.2	300.9	194.4	137.7	109.7	91.8	81.6	75.3	72.1	72.1
107.5°	575.3	417.4	287.1	200.3	151.7	124.6	108.5	97.9	92.7	89.6	88.4
110°	535.5	396.5	283.1	205.9	161.9	135.7	119.2	109.7	103.9	101.3	100.1



TEST NUMBER: P333180-930

CATALOG NUMBER: S125DIP-S610D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	505.9	384.3	283.1	213.0	171.6	146.5	130.4	120.8	115.1	113.1	111.8
115°	473.6	371.0	284.9	223.7	186.8	163.2	147.2	137.7	132.0	130.0	128.7
117.5°	454.4	364.5	289.2	236.0	202.4	180.0	164.6	153.8	148.1	146.0	144.1
120°	443.7	361.4	293.3	244.2	213.5	191.3	175.3	164.4	158.7	156.2	154.3
122.5°	434.5	358.9	296.8	253.3	224.3	201.9	186.1	174.1	168.4	166.4	165.0
125°	422.0	355.7	302.8	265.8	238.4	217.4	200.8	188.7	183.0	179.8	178.5
127.5°	410.5	354.2	309.6	277.3	252.1	231.8	215.2	202.4	195.1	191.0	189.1
130°	402.9	353.2	313.6	284.9	260.7	241.0	224.4	211.0	202.7	197.6	195.7
132.5°	396.8	353.2	318.2	291.6	268.9	249.2	232.5	218.7	209.4	203.3	200.8
135°	389.5	353.2	324.5	300.9	279.9	260.1	242.9	229.5	219.3	211.7	209.1
137.5°	383.0	353.9	330.2	307.8	287.6	269.6	251.9	238.8	228.6	221.4	219.6
140°	379.9	354.4	332.7	312.3	293.3	274.8	257.6	245.4	235.2	227.6	225.7
142.5°	377.4	355.0	334.3	315.0	296.8	279.3	263.2	251.5	241.3	234.2	232.8
145°	373.6	354.4	336.0	318.7	302.8	286.3	271.6	260.1	251.2	244.8	243.5
147.5°	369.6	352.8	336.6	321.1	306.6	292.1	279.2	269.3	261.0	255.5	254.7
150°	366.6	351.2	336.6	322.5	309.2	295.1	284.3	275.4	267.1	262.6	261.4
152.5°	363.0	349.2	336.1	323.6	311.7	298.7	288.9	280.5	273.2	269.3	268.5
155°	357.0	345.5	334.7	324.5	314.3	303.5	294.5	288.1	281.8	277.9	277.9
157.5°	351.4	341.7	333.0	325.1	316.4	307.1	300.4	294.7	289.3	286.3	286.3
160°	346.8	339.2	331.5	325.1	317.5	309.2	303.5	298.3	293.9	291.3	292.0
162.5°	342.7	336.1	330.0	324.6	318.5	311.2	306.5	302.4	298.5	296.0	296.5
165°	336.6	331.5	327.7	323.8	318.7	313.6	309.8	307.3	304.1	302.1	303.5
167.5°	330.6	327.0	324.1	322.3	318.7	314.5	312.1	310.3	308.5	307.4	308.0
170°	327.0	324.5	322.5	321.3	318.7	315.5	313.6	312.3	311.1	310.5	311.1
172.5°	323.4	321.4	320.5	320.2	318.2	315.5	314.6	313.9	312.6	312.0	313.2
175°	318.7	318.1	318.1	318.7	317.5	315.5	315.5	315.5	315.0	314.3	315.5
177.5°	316.7	316.2	316.2	317.2	316.7	315.7	315.7	316.2	315.7	315.7	316.7
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2



TEST NUMBER: P333180-930

CATALOG NUMBER: S125DIP-S610D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7
2.5°	733.7	737.1	739.3	743.6	747.1	749.0	750.7	752.2	754.0	755.5	759.7
5°	738.3	746.4	753.3	763.8	773.4	780.8	788.8	796.0	801.8	810.2	816.7
7.5°	736.3	750.6	765.6	781.9	798.6	814.1	828.3	841.6	853.7	868.3	881.1
10°	734.3	753.8	773.1	795.0	817.7	836.8	854.8	873.1	886.4	905.0	920.8
12.5°	732.9	755.9	779.0	805.4	830.3	857.4	881.3	894.6	914.9	929.8	948.5
15°	726.6	756.9	788.8	818.6	853.9	879.0	900.0	926.0	944.9	963.8	984.2
17.5°	715.3	749.7	785.5	824.4	858.3	885.3	912.3	937.4	960.0	985.3	1010.8
20°	710.2	744.5	785.5	825.4	858.5	886.7	914.6	942.2	966.9	999.5	1028.8
22.5°	699.3	740.9	778.5	817.4	851.6	882.2	913.9	945.1	978.0	1014.8	1051.7
25°	679.8	721.9	761.9	800.3	834.7	873.1	906.9	948.7	990.8	1039.4	1085.2
27.5°	659.7	699.9	736.5	773.6	813.8	857.2	901.0	948.4	1003.6	1064.9	1129.7
30°	643.3	681.3	717.0	755.0	796.9	845.8	893.8	950.2	1014.0	1083.0	1159.8
32.5°	624.2	659.3	694.0	734.3	779.8	831.4	887.4	949.2	1025.9	1104.4	1183.4
35°	591.6	621.0	656.6	699.6	751.1	810.2	875.0	948.0	1036.0	1126.1	1192.7
37.5°	552.9	580.2	617.8	665.0	718.8	782.4	859.2	945.8	1039.3	1111.1	1132.6
40°	526.8	552.2	591.3	640.2	695.3	762.5	846.8	938.4	1028.8	1074.7	1057.0
42.5°	499.0	525.7	563.8	612.2	671.5	744.7	831.1	922.8	998.7	1015.9	955.0
45°	455.3	482.8	520.3	569.2	633.1	712.3	802.5	885.7	929.4	898.1	803.7
47.5°	414.6	440.4	475.2	525.6	591.5	673.5	760.3	826.7	830.2	755.5	654.7
50°	386.9	410.7	445.6	496.2	561.5	644.5	722.8	775.2	751.7	667.2	570.2
52.5°	359.5	382.9	417.4	467.4	532.1	608.1	681.0	717.7	673.4	586.6	503.8
55°	320.2	340.7	374.5	420.6	481.9	552.5	614.5	627.1	569.6	484.0	416.9
57.5°	281.8	300.9	331.7	374.1	430.2	492.8	541.2	538.5	477.6	404.2	350.9
60°	255.8	274.4	301.7	343.2	394.3	448.2	489.7	479.7	419.4	356.2	311.3
62.5°	232.5	249.2	274.9	311.2	357.8	407.7	441.8	427.2	368.0	312.8	277.3
65°	198.2	212.1	234.2	265.1	303.9	345.0	371.4	352.5	302.0	258.9	230.4
67.5°	165.4	176.6	195.0	219.8	252.8	285.8	301.9	282.9	242.5	211.1	190.0
70°	144.6	154.6	168.8	190.8	219.6	247.4	259.5	242.5	207.8	180.8	165.7
72.5°	123.8	132.0	144.6	164.3	187.4	211.6	222.1	205.9	177.3	154.6	140.4
75°	95.7	101.3	110.0	123.6	141.9	161.0	167.0	152.7	134.4	117.4	108.1
77.5°	68.5	73.2	79.8	88.4	101.3	113.6	118.7	110.5	96.3	85.5	77.9
80°	52.7	55.1	60.7	67.8	78.0	85.8	89.2	83.9	74.0	66.0	60.1
82.5°	37.5	40.0	43.4	49.2	55.8	61.0	64.7	61.1	54.0	47.6	44.2
85°	18.3	19.8	21.7	24.1	29.1	32.2	31.9	29.8	26.9	24.5	22.6
87.5°	6.7	7.2	8.2	9.7	10.7	11.8	12.6	12.2	11.5	10.8	10.2
90°	1.3	2.5	3.8	5.1	6.4	7.0	8.3	8.9	10.2	10.8	11.5
92.5°	9.5	14.8	22.7	33.7	52.3	87.1	145.4	208.8	205.5	166.4	113.0
95°	21.7	26.7	33.8	47.8	76.5	144.7	284.9	460.9	564.8	552.7	458.4
97.5°	35.7	39.3	46.3	58.9	79.6	124.7	227.5	411.6	603.2	699.3	682.7
100°	45.9	48.4	55.4	67.6	86.7	123.7	206.5	367.2	575.7	735.0	784.1
102.5°	56.1	58.1	65.6	76.7	95.4	128.2	197.9	333.5	527.2	713.6	818.2
105°	72.1	75.3	81.6	91.8	109.7	137.7	194.4	300.9	462.2	645.1	798.1
107.5°	89.6	92.7	97.9	108.5	124.6	151.7	200.3	287.1	417.4	575.3	726.2
110°	101.3	103.9	109.7	119.2	135.7	161.9	205.9	283.1	396.5	535.5	673.2



TEST NUMBER: P333180-930

CATALOG NUMBER: S125DIP-S610D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	113.1	115.1	120.8	130.4	146.5	171.6	213.0	283.1	384.3	505.9	631.4
115°	130.0	132.0	137.7	147.2	163.2	186.8	223.7	284.9	371.0	473.6	578.9
117.5°	146.0	148.1	153.8	164.6	180.0	202.4	236.0	289.2	364.5	454.4	544.9
120°	156.2	158.7	164.4	175.3	191.3	213.5	244.2	293.3	361.4	443.7	526.5
122.5°	166.4	168.4	174.1	186.1	201.9	224.3	253.3	296.8	358.9	434.5	512.8
125°	179.8	183.0	188.7	200.8	217.4	238.4	265.8	302.8	355.7	422.0	492.8
127.5°	191.0	195.1	202.4	215.2	231.8	252.1	277.3	309.6	354.2	410.5	472.4
130°	197.6	202.7	211.0	224.4	241.0	260.7	284.9	313.6	353.2	402.9	459.6
132.5°	203.3	209.4	218.7	232.5	249.2	268.9	291.6	318.2	353.2	396.8	446.9
135°	211.7	219.3	229.5	242.9	260.1	279.9	300.9	324.5	353.2	389.5	430.3
137.5°	221.4	228.6	238.8	251.9	269.6	287.6	307.8	330.2	353.9	383.0	416.3
140°	227.6	235.2	245.4	257.6	274.8	293.3	312.3	332.7	354.4	379.9	408.6
142.5°	234.2	241.3	251.5	263.2	279.3	296.8	315.0	334.3	355.0	377.4	402.0
145°	244.8	251.2	260.1	271.6	286.3	302.8	318.7	336.0	354.4	373.6	393.3
147.5°	255.5	261.0	269.3	279.2	292.1	306.6	321.1	336.6	352.8	369.6	385.1
150°	262.6	267.1	275.4	284.3	295.1	309.2	322.5	336.6	351.2	366.6	380.6
152.5°	269.3	273.2	280.5	288.9	298.7	311.7	323.6	336.1	349.2	363.0	375.4
155°	277.9	281.8	288.1	294.5	303.5	314.3	324.5	334.7	345.5	357.0	367.9
157.5°	286.3	289.3	294.7	300.4	307.1	316.4	325.1	333.0	341.7	351.4	360.2
160°	291.3	293.9	298.3	303.5	309.2	317.5	325.1	331.5	339.2	346.8	355.1
162.5°	296.0	298.5	302.4	306.5	311.2	318.5	324.6	330.0	336.1	342.7	349.4
165°	302.1	304.1	307.3	309.8	313.6	318.7	323.8	327.7	331.5	336.6	341.7
167.5°	307.4	308.5	310.3	312.1	314.5	318.7	322.3	324.1	327.0	330.6	334.3
170°	310.5	311.1	312.3	313.6	315.5	318.7	321.3	322.5	324.5	327.0	330.2
172.5°	312.0	312.6	313.9	314.6	315.5	318.2	320.2	320.5	321.4	323.4	325.6
175°	314.3	315.0	315.5	315.5	315.5	317.5	318.7	318.1	318.1	318.7	320.7
177.5°	315.7	315.7	316.2	315.7	315.7	316.7	317.2	316.2	316.2	316.7	317.2
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	729.7	729.7	729.7	729.7	729.7	729.7	729.7
2.5°	763.1	765.1	769.3	767.8	769.8	770.8	771.8
5°	824.8	834.7	839.0	838.4	844.9	843.3	841.8
7.5°	894.4	904.8	910.6	917.9	922.1	922.3	926.0
10°	933.8	947.4	953.0	960.7	965.7	968.5	968.2
12.5°	964.0	974.7	987.2	991.0	997.7	1001.2	999.9
15°	1000.4	1017.4	1030.4	1036.9	1045.3	1047.7	1051.2
17.5°	1032.8	1055.6	1070.9	1091.0	1098.7	1103.3	1100.6
20°	1057.4	1087.4	1102.6	1126.7	1140.0	1147.2	1144.7
22.5°	1086.4	1118.8	1147.0	1167.8	1188.1	1197.8	1199.7
25°	1136.0	1180.6	1221.8	1249.4	1274.5	1280.3	1293.4
27.5°	1191.6	1244.1	1288.2	1317.1	1334.6	1341.2	1345.2
30°	1226.5	1278.8	1312.0	1330.5	1336.1	1335.5	1334.9
32.5°	1243.6	1276.4	1282.7	1277.5	1264.8	1253.9	1242.7
35°	1219.4	1194.9	1158.3	1111.3	1076.6	1041.5	1038.1
37.5°	1096.7	1018.4	957.6	889.7	850.4	826.2	809.4
40°	981.1	892.3	818.6	761.2	721.3	705.6	690.1
42.5°	855.8	770.9	705.6	657.7	627.7	610.2	597.9
45°	695.3	620.4	569.2	534.6	510.7	497.1	489.3
47.5°	569.7	514.3	470.9	445.9	429.4	418.8	418.8
50°	502.4	449.4	420.6	400.8	386.5	378.1	379.7
52.5°	442.6	403.1	378.5	361.8	351.3	346.2	346.0
55°	370.1	341.6	325.5	313.4	306.3	300.4	301.7
57.5°	316.6	292.5	281.8	271.7	266.8	264.4	261.1
60°	283.4	264.8	255.5	247.4	242.5	240.7	237.3
62.5°	253.9	239.3	230.2	223.6	219.2	218.6	215.9
65°	213.4	202.3	194.2	191.1	186.5	185.2	185.2
67.5°	175.9	168.0	161.7	158.8	156.8	157.1	155.6
70°	152.4	145.9	141.9	138.8	137.2	137.5	136.2
72.5°	133.3	126.0	122.5	120.7	118.6	119.4	119.0
75°	100.9	97.3	95.4	93.5	92.3	91.6	91.1
77.5°	74.1	70.8	69.5	68.4	68.6	67.1	68.2
80°	57.3	54.5	53.6	52.0	51.7	51.7	51.4
82.5°	41.9	40.4	39.7	38.4	37.8	38.3	37.5
85°	21.7	20.5	20.1	20.1	19.5	18.9	20.5
87.5°	10.4	9.5	9.7	9.5	9.5	9.4	8.9
90°	12.1	12.7	14.0	14.0	14.0	14.7	14.7
92.5°	82.0	61.7	52.3	44.1	42.6	41.7	40.7
95°	361.4	283.1	229.5	184.3	165.1	160.0	149.8
97.5°	614.7	538.3	463.8	424.4	388.7	370.2	362.1
100°	752.8	687.2	620.9	576.9	531.0	507.4	497.3
102.5°	837.6	806.0	761.2	714.1	681.4	655.8	648.2
105°	885.5	913.5	906.5	886.1	865.0	852.3	844.7
107.5°	842.8	914.8	948.0	958.4	958.2	954.1	948.9
110°	794.3	884.2	938.3	967.0	979.2	983.7	983.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	746.3	837.2	901.2	943.1	963.8	974.9	979.6
115°	677.7	765.0	834.5	884.2	914.8	932.6	940.9
117.5°	630.1	705.3	769.1	818.8	850.4	868.1	873.2
120°	603.1	673.2	729.3	776.4	807.1	824.3	829.3
122.5°	583.7	646.1	698.7	740.8	768.8	786.0	790.6
125°	557.8	613.3	659.2	694.9	721.0	735.0	741.4
127.5°	533.0	584.8	627.8	660.1	683.2	696.5	699.3
130°	515.8	565.4	606.9	638.8	659.8	672.5	676.4
132.5°	499.4	544.5	584.4	616.3	637.3	649.1	653.4
135°	474.3	515.1	551.4	579.4	600.5	612.0	615.8
137.5°	451.8	485.8	516.6	541.8	560.8	571.4	575.7
140°	438.5	467.9	494.6	518.3	534.8	544.4	547.6
142.5°	427.4	452.6	475.8	495.9	509.9	518.9	521.5
145°	413.1	432.8	450.0	465.4	476.2	483.2	485.8
147.5°	401.2	416.4	429.4	441.5	450.2	454.3	455.4
150°	394.6	406.7	418.2	427.8	435.4	438.0	438.5
152.5°	388.0	399.1	408.0	416.0	422.2	424.7	425.3
155°	378.1	386.9	394.0	400.3	404.8	406.7	407.3
157.5°	368.6	375.4	381.0	386.0	389.6	391.4	391.3
160°	361.4	367.9	372.3	376.7	379.9	381.2	380.6
162.5°	355.3	360.7	364.6	368.1	370.7	371.0	370.9
165°	346.2	350.0	353.2	355.7	357.0	357.0	357.0
167.5°	337.2	340.1	342.4	343.7	344.9	344.4	344.2
170°	332.2	334.0	335.3	336.6	337.2	337.2	336.6
172.5°	327.5	329.0	329.7	330.0	331.1	330.1	329.5
175°	320.7	322.0	322.0	322.0	322.5	321.3	320.7
177.5°	317.7	317.7	317.7	317.2	317.7	316.2	316.2
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2

(END OF REPORT)