

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: P333171-930

Luminaire Tested: **S125DIP-S610D590U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333171-930
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-S610D590U930-4F0-1E-UDD-A4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3790.2 lumens
Efficiency: N/A
Efficacy: 115.6 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

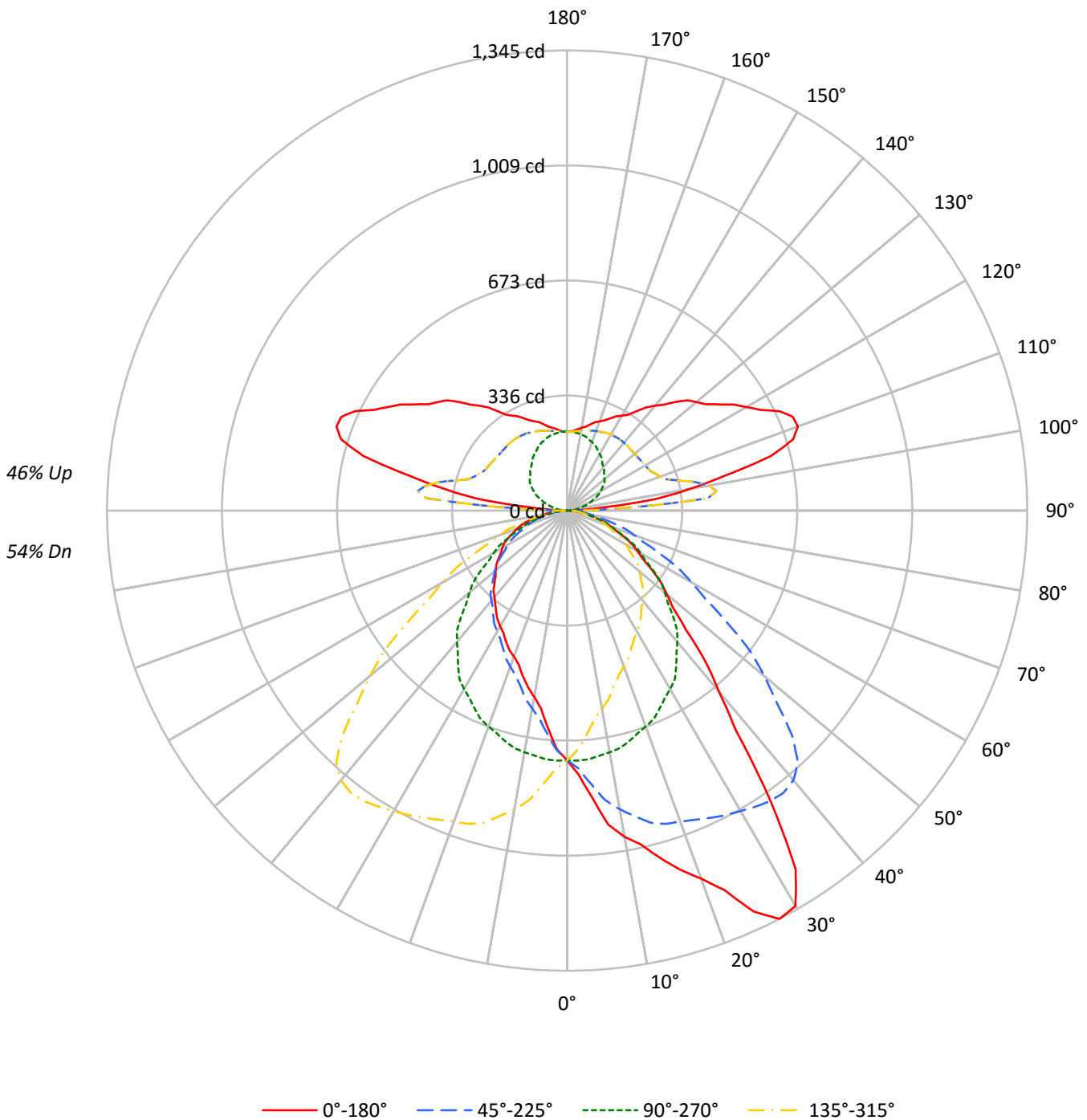
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	47	45	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	43	42	40	37	33
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	36	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	17
9	51	39	31	26	47	37	30	25	32	27	23	28	23	20	24	20	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

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	1.9
10°-20°	209.2	5.5
20°-30°	339.6	9.0
30°-40°	414.3	10.9
40°-50°	376.9	9.9
50°-60°	300.2	7.9
60°-70°	209.1	5.5
70°-80°	111.5	2.9
80°-90°	29.4	0.8
90°-100°	167.2	4.4
100°-110°	359.4	9.5
110°-120°	337.3	8.9
120°-130°	273.4	7.2
130°-140°	219.4	5.8
140°-150°	165.6	4.4
150°-160°	116.5	3.1
160°-170°	68.7	1.8
170°-180°	22.3	0.6
0°-30°	619.0	16.3
0°-40°	1033.3	27.3
0°-60°	1710.3	45.1
0°-90°	2060.3	54.4
90°-120°	864.0	22.8
90°-150°	1522.3	40.2
90°-180°	1730.0	45.6
0°-180°	3790.2	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°	11	0	11	0	11	8
95°	109	15	109	15	109	155
105°	616	53	616	53	616	613
115°	686	94	686	94	686	671
125°	541	130	541	130	541	489
135°	449	152	449	152	449	348
145°	354	178	354	178	354	225
155°	297	203	297	203	297	139
165°	260	221	260	221	260	74
175°	234	230	234	230	234	23
180°	231	231	231	231	231	



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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°	8.1	8.6	8.7	8.7	9.0	8.8	9.7	9.6	10.3	10.9	11.7
90°	10.7	10.7	10.2	10.2	10.2	9.3	8.8	8.4	7.9	7.4	6.5
92.5°	29.7	30.4	31.1	32.2	38.2	45.0	59.8	82.4	121.4	149.9	152.4
95°	109.3	116.8	120.4	134.4	167.5	206.5	263.7	334.4	403.2	412.1	336.2
97.5°	264.2	270.1	283.6	309.7	338.3	392.7	448.4	498.0	510.2	440.0	300.3
100°	362.7	370.2	387.4	420.9	453.0	501.3	549.3	572.0	536.2	420.0	267.9
102.5°	472.9	478.5	497.2	521.0	555.3	588.0	611.0	597.0	520.6	384.6	243.3
105°	616.2	621.8	631.1	646.5	661.3	666.4	646.0	582.3	470.7	337.2	219.5
107.5°	692.3	696.0	699.1	699.2	691.6	667.4	614.8	529.8	419.7	304.5	209.5
110°	717.6	717.6	714.4	705.5	684.6	645.1	579.5	491.1	390.7	289.3	206.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	714.6	711.3	703.2	688.0	657.5	610.8	544.5	460.6	369.1	280.4	206.5
115°	686.5	680.4	667.4	645.1	608.8	558.1	494.4	422.2	345.5	270.7	207.9
117.5°	637.1	633.3	620.4	597.4	561.1	514.5	459.7	397.5	331.5	266.0	210.9
120°	605.0	601.4	588.8	566.5	532.1	491.1	439.9	384.2	323.7	263.7	213.9
122.5°	576.7	573.4	560.8	540.4	509.7	471.4	425.8	374.1	317.0	261.9	216.5
125°	540.9	536.2	526.0	507.0	480.9	447.4	406.9	359.5	307.9	259.5	220.9
127.5°	510.2	508.1	498.5	481.6	458.0	426.6	388.9	344.6	299.5	258.4	225.8
130°	493.4	490.6	481.4	466.0	442.7	412.5	376.3	335.3	293.9	257.6	228.9
132.5°	476.7	473.5	465.0	449.6	426.4	397.3	364.4	326.0	289.4	257.6	232.2
135°	449.2	446.5	438.1	422.7	402.3	375.8	346.0	313.9	284.1	257.6	236.7
137.5°	420.0	416.9	409.2	395.2	376.9	354.4	329.6	303.7	279.4	258.2	240.9
140°	399.5	397.1	390.2	378.1	360.9	341.4	320.0	298.1	277.2	258.6	242.8
142.5°	380.5	378.5	371.9	361.7	347.2	330.2	311.8	293.3	275.3	258.9	243.9
145°	354.4	352.5	347.4	339.5	328.3	315.8	301.3	287.0	272.6	258.6	245.1
147.5°	332.2	331.4	328.4	322.1	313.2	303.8	292.7	281.0	269.6	257.4	245.6
150°	320.0	319.5	317.6	312.1	305.1	296.7	287.9	277.6	267.4	256.2	245.6
152.5°	310.3	309.8	307.9	303.5	297.7	291.1	283.1	273.9	264.8	254.8	245.2
155°	297.2	296.7	295.3	292.0	287.4	282.3	275.8	268.3	260.4	252.1	244.2
157.5°	285.4	285.5	284.2	281.5	277.9	273.9	268.9	262.8	256.3	249.2	243.0
160°	277.6	278.1	277.2	274.8	271.6	268.3	263.7	259.0	253.0	247.4	241.8
162.5°	270.6	270.7	270.5	268.6	266.0	263.1	259.3	254.9	250.1	245.2	240.8
165°	260.4	260.4	260.4	259.5	257.6	255.4	252.5	249.2	245.6	241.8	239.0
167.5°	251.1	251.2	251.6	250.8	249.8	248.2	246.1	243.9	241.2	238.6	236.4
170°	245.6	246.1	246.1	245.6	244.6	243.7	242.3	240.9	238.6	236.7	235.3
172.5°	240.4	240.8	241.6	240.8	240.5	239.9	239.0	237.6	235.9	234.5	233.8
175°	233.9	234.4	235.3	234.9	234.9	234.9	233.9	233.9	232.5	232.0	232.0
177.5°	230.6	230.6	231.8	231.4	231.8	231.8	231.8	231.4	231.1	230.6	230.6
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6



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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°	12.1	11.4	10.4	9.4	8.0	7.1	6.6	6.8	6.1	6.0	6.5
90°	6.0	5.1	4.6	3.8	2.8	1.9	0.9	0.5	0.9	1.9	2.8
92.5°	106.2	63.5	38.2	24.5	16.6	10.8	6.8	5.7	6.8	10.8	16.6
95°	207.9	105.6	55.8	34.9	24.6	19.6	15.8	15.3	15.8	19.6	24.6
97.5°	165.9	91.0	58.0	43.0	33.8	28.6	26.0	25.5	26.0	28.6	33.8
100°	150.7	90.3	63.3	49.3	40.4	35.4	33.5	32.5	33.5	35.4	40.4
102.5°	144.4	93.6	69.5	56.0	47.9	42.4	40.9	40.4	40.9	42.4	47.9
105°	141.9	100.4	80.0	66.9	59.5	54.9	52.6	52.6	52.6	54.9	59.5
107.5°	146.1	110.7	90.9	79.2	71.4	67.6	65.4	64.5	65.4	67.6	71.4
110°	150.2	118.1	99.1	87.0	80.0	75.8	73.9	73.1	73.9	75.8	80.0



TEST NUMBER: P333171-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	155.4	125.2	106.9	95.1	88.2	84.0	82.5	81.6	82.5	84.0	88.2
115°	163.2	136.2	119.0	107.5	100.4	96.3	94.9	93.9	94.9	96.3	100.4
117.5°	172.2	147.7	131.3	120.1	112.2	108.0	106.5	105.1	106.5	108.0	112.2
120°	178.1	155.8	139.5	127.9	120.0	115.8	114.0	112.5	114.0	115.8	120.0
122.5°	184.8	163.6	147.3	135.7	127.0	122.9	121.4	120.3	121.4	122.9	127.0
125°	194.0	173.9	158.6	146.5	137.6	133.5	131.2	130.2	131.2	133.5	137.6
127.5°	202.3	183.8	169.1	157.0	147.7	142.4	139.3	137.9	139.3	142.4	147.7
130°	207.9	190.2	175.8	163.7	153.9	147.9	144.1	142.8	144.1	147.9	153.9
132.5°	212.7	196.2	181.7	169.7	159.6	152.7	148.3	146.5	148.3	152.7	159.6
135°	219.5	204.2	189.7	177.2	167.5	160.0	154.4	152.5	154.4	160.0	167.5
137.5°	224.5	209.9	196.7	183.8	174.2	166.8	161.6	160.2	161.6	166.8	174.2
140°	227.9	213.9	200.5	187.9	179.0	171.6	166.0	164.6	166.0	171.6	179.0
142.5°	229.8	216.5	203.8	192.0	183.5	176.1	170.9	169.8	170.9	176.1	183.5
145°	232.5	220.9	208.8	198.1	189.7	183.2	178.6	177.7	178.6	183.2	189.7
147.5°	234.2	223.7	213.1	203.7	196.4	190.4	186.4	185.8	186.4	190.4	196.4
150°	235.3	225.6	215.3	207.4	200.9	194.9	191.6	190.7	191.6	194.9	200.9
152.5°	236.0	227.4	217.9	210.8	204.6	199.3	196.4	195.9	196.4	199.3	204.6
155°	236.7	229.3	221.4	214.8	210.2	205.5	202.8	202.8	202.8	205.5	210.2
157.5°	237.2	230.9	224.0	219.2	215.1	211.1	208.8	208.9	208.8	211.1	215.1
160°	237.2	231.6	225.6	221.4	217.7	214.4	212.5	213.0	212.5	214.4	217.7
162.5°	236.8	232.4	227.1	223.6	220.6	217.8	215.9	216.4	215.9	217.8	220.6
165°	236.3	232.5	228.9	226.0	224.1	221.8	220.5	221.4	220.5	221.8	224.1
167.5°	235.1	232.5	229.4	227.7	226.4	225.1	224.3	224.7	224.3	225.1	226.4
170°	234.4	232.5	230.2	228.9	227.9	227.0	226.5	227.0	226.5	227.0	227.9
172.5°	233.7	232.2	230.2	229.6	229.0	228.0	227.6	228.4	227.6	228.0	229.0
175°	232.5	231.6	230.2	230.2	230.2	229.8	229.3	230.2	229.3	229.8	230.2
177.5°	231.4	231.1	230.3	230.3	230.6	230.3	230.3	231.1	230.3	230.3	230.6
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6



TEST NUMBER: P333171-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-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°	6.9	7.6	7.5	7.9	8.0	8.6	8.5	9.6	10.2	10.8	10.7
90°	3.8	4.6	5.1	6.0	6.5	7.4	7.9	8.4	8.8	9.3	10.2
92.5°	24.5	38.2	63.5	106.2	152.4	149.9	121.4	82.4	59.8	45.0	38.2
95°	34.9	55.8	105.6	207.9	336.2	412.1	403.2	334.4	263.7	206.5	167.5
97.5°	43.0	58.0	91.0	165.9	300.3	440.0	510.2	498.0	448.4	392.7	338.3
100°	49.3	63.3	90.3	150.7	267.9	420.0	536.2	572.0	549.3	501.3	453.0
102.5°	56.0	69.5	93.6	144.4	243.3	384.6	520.6	597.0	611.0	588.0	555.3
105°	66.9	80.0	100.4	141.9	219.5	337.2	470.7	582.3	646.0	666.4	661.3
107.5°	79.2	90.9	110.7	146.1	209.5	304.5	419.7	529.8	614.8	667.4	691.6
110°	87.0	99.1	118.1	150.2	206.5	289.3	390.7	491.1	579.5	645.1	684.6



TEST NUMBER: P333171-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	95.1	106.9	125.2	155.4	206.5	280.4	369.1	460.6	544.5	610.8	657.5
115°	107.5	119.0	136.2	163.2	207.9	270.7	345.5	422.2	494.4	558.1	608.8
117.5°	120.1	131.3	147.7	172.2	210.9	266.0	331.5	397.5	459.7	514.5	561.1
120°	127.9	139.5	155.8	178.1	213.9	263.7	323.7	384.2	439.9	491.1	532.1
122.5°	135.7	147.3	163.6	184.8	216.5	261.9	317.0	374.1	425.8	471.4	509.7
125°	146.5	158.6	173.9	194.0	220.9	259.5	307.9	359.5	406.9	447.4	480.9
127.5°	157.0	169.1	183.8	202.3	225.8	258.4	299.5	344.6	388.9	426.6	458.0
130°	163.7	175.8	190.2	207.9	228.9	257.6	293.9	335.3	376.3	412.5	442.7
132.5°	169.7	181.7	196.2	212.7	232.2	257.6	289.4	326.0	364.4	397.3	426.4
135°	177.2	189.7	204.2	219.5	236.7	257.6	284.1	313.9	346.0	375.8	402.3
137.5°	183.8	196.7	209.9	224.5	240.9	258.2	279.4	303.7	329.6	354.4	376.9
140°	187.9	200.5	213.9	227.9	242.8	258.6	277.2	298.1	320.0	341.4	360.9
142.5°	192.0	203.8	216.5	229.8	243.9	258.9	275.3	293.3	311.8	330.2	347.2
145°	198.1	208.8	220.9	232.5	245.1	258.6	272.6	287.0	301.3	315.8	328.3
147.5°	203.7	213.1	223.7	234.2	245.6	257.4	269.6	281.0	292.7	303.8	313.2
150°	207.4	215.3	225.6	235.3	245.6	256.2	267.4	277.6	287.9	296.7	305.1
152.5°	210.8	217.9	227.4	236.0	245.2	254.8	264.8	273.9	283.1	291.1	297.7
155°	214.8	221.4	229.3	236.7	244.2	252.1	260.4	268.3	275.8	282.3	287.4
157.5°	219.2	224.0	230.9	237.2	243.0	249.2	256.3	262.8	268.9	273.9	277.9
160°	221.4	225.6	231.6	237.2	241.8	247.4	253.0	259.0	263.7	268.3	271.6
162.5°	223.6	227.1	232.4	236.8	240.8	245.2	250.1	254.9	259.3	263.1	266.0
165°	226.0	228.9	232.5	236.3	239.0	241.8	245.6	249.2	252.5	255.4	257.6
167.5°	227.7	229.4	232.5	235.1	236.4	238.6	241.2	243.9	246.1	248.2	249.8
170°	228.9	230.2	232.5	234.4	235.3	236.7	238.6	240.9	242.3	243.7	244.6
172.5°	229.6	230.2	232.2	233.7	233.8	234.5	235.9	237.6	239.0	239.9	240.5
175°	230.2	230.2	231.6	232.5	232.0	232.0	232.5	233.9	233.9	234.9	234.9
177.5°	230.3	230.3	231.1	231.4	230.6	230.6	231.1	231.4	231.8	231.8	231.8
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6



TEST NUMBER: P333171-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-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°	11.3	11.0	11.1	11.6	11.1	11.0	11.3	10.7	10.8	10.2	9.6
90°	10.2	10.2	10.7	10.7	10.7	10.2	10.2	10.2	9.3	8.8	8.4
92.5°	32.2	31.1	30.4	29.7	30.4	31.1	32.2	38.2	45.0	59.8	82.4
95°	134.4	120.4	116.8	109.3	116.8	120.4	134.4	167.5	206.5	263.7	334.4
97.5°	309.7	283.6	270.1	264.2	270.1	283.6	309.7	338.3	392.7	448.4	498.0
100°	420.9	387.4	370.2	362.7	370.2	387.4	420.9	453.0	501.3	549.3	572.0
102.5°	521.0	497.2	478.5	472.9	478.5	497.2	521.0	555.3	588.0	611.0	597.0
105°	646.5	631.1	621.8	616.2	621.8	631.1	646.5	661.3	666.4	646.0	582.3
107.5°	699.2	699.1	696.0	692.3	696.0	699.1	699.2	691.6	667.4	614.8	529.8
110°	705.5	714.4	717.6	717.6	717.6	714.4	705.5	684.6	645.1	579.5	491.1



TEST NUMBER: P333171-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	688.0	703.2	711.3	714.6	711.3	703.2	688.0	657.5	610.8	544.5	460.6
115°	645.1	667.4	680.4	686.5	680.4	667.4	645.1	608.8	558.1	494.4	422.2
117.5°	597.4	620.4	633.3	637.1	633.3	620.4	597.4	561.1	514.5	459.7	397.5
120°	566.5	588.8	601.4	605.0	601.4	588.8	566.5	532.1	491.1	439.9	384.2
122.5°	540.4	560.8	573.4	576.7	573.4	560.8	540.4	509.7	471.4	425.8	374.1
125°	507.0	526.0	536.2	540.9	536.2	526.0	507.0	480.9	447.4	406.9	359.5
127.5°	481.6	498.5	508.1	510.2	508.1	498.5	481.6	458.0	426.6	388.9	344.6
130°	466.0	481.4	490.6	493.4	490.6	481.4	466.0	442.7	412.5	376.3	335.3
132.5°	449.6	465.0	473.5	476.7	473.5	465.0	449.6	426.4	397.3	364.4	326.0
135°	422.7	438.1	446.5	449.2	446.5	438.1	422.7	402.3	375.8	346.0	313.9
137.5°	395.2	409.2	416.9	420.0	416.9	409.2	395.2	376.9	354.4	329.6	303.7
140°	378.1	390.2	397.1	399.5	397.1	390.2	378.1	360.9	341.4	320.0	298.1
142.5°	361.7	371.9	378.5	380.5	378.5	371.9	361.7	347.2	330.2	311.8	293.3
145°	339.5	347.4	352.5	354.4	352.5	347.4	339.5	328.3	315.8	301.3	287.0
147.5°	322.1	328.4	331.4	332.2	331.4	328.4	322.1	313.2	303.8	292.7	281.0
150°	312.1	317.6	319.5	320.0	319.5	317.6	312.1	305.1	296.7	287.9	277.6
152.5°	303.5	307.9	309.8	310.3	309.8	307.9	303.5	297.7	291.1	283.1	273.9
155°	292.0	295.3	296.7	297.2	296.7	295.3	292.0	287.4	282.3	275.8	268.3
157.5°	281.5	284.2	285.5	285.4	285.5	284.2	281.5	277.9	273.9	268.9	262.8
160°	274.8	277.2	278.1	277.6	278.1	277.2	274.8	271.6	268.3	263.7	259.0
162.5°	268.6	270.5	270.7	270.6	270.7	270.5	268.6	266.0	263.1	259.3	254.9
165°	259.5	260.4	260.4	260.4	260.4	260.4	259.5	257.6	255.4	252.5	249.2
167.5°	250.8	251.6	251.2	251.1	251.2	251.6	250.8	249.8	248.2	246.1	243.9
170°	245.6	246.1	246.1	245.6	246.1	246.1	245.6	244.6	243.7	242.3	240.9
172.5°	240.8	241.6	240.8	240.4	240.8	241.6	240.8	240.5	239.9	239.0	237.6
175°	234.9	235.3	234.4	233.9	234.4	235.3	234.9	234.9	234.9	233.9	233.9
177.5°	231.4	231.8	230.6	230.6	230.6	231.8	231.4	231.8	231.8	231.8	231.4
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6



TEST NUMBER: P333171-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-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°	8.5	8.6	8.0	7.9	7.5	7.6	6.9	6.5	6.0	6.1	6.8
90°	7.9	7.4	6.5	6.0	5.1	4.6	3.8	2.8	1.9	0.9	0.5
92.5°	121.4	149.9	152.4	106.2	63.5	38.2	24.5	16.6	10.8	6.8	5.7
95°	403.2	412.1	336.2	207.9	105.6	55.8	34.9	24.6	19.6	15.8	15.3
97.5°	510.2	440.0	300.3	165.9	91.0	58.0	43.0	33.8	28.6	26.0	25.5
100°	536.2	420.0	267.9	150.7	90.3	63.3	49.3	40.4	35.4	33.5	32.5
102.5°	520.6	384.6	243.3	144.4	93.6	69.5	56.0	47.9	42.4	40.9	40.4
105°	470.7	337.2	219.5	141.9	100.4	80.0	66.9	59.5	54.9	52.6	52.6
107.5°	419.7	304.5	209.5	146.1	110.7	90.9	79.2	71.4	67.6	65.4	64.5
110°	390.7	289.3	206.5	150.2	118.1	99.1	87.0	80.0	75.8	73.9	73.1



TEST NUMBER: P333171-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	369.1	280.4	206.5	155.4	125.2	106.9	95.1	88.2	84.0	82.5	81.6
115°	345.5	270.7	207.9	163.2	136.2	119.0	107.5	100.4	96.3	94.9	93.9
117.5°	331.5	266.0	210.9	172.2	147.7	131.3	120.1	112.2	108.0	106.5	105.1
120°	323.7	263.7	213.9	178.1	155.8	139.5	127.9	120.0	115.8	114.0	112.5
122.5°	317.0	261.9	216.5	184.8	163.6	147.3	135.7	127.0	122.9	121.4	120.3
125°	307.9	259.5	220.9	194.0	173.9	158.6	146.5	137.6	133.5	131.2	130.2
127.5°	299.5	258.4	225.8	202.3	183.8	169.1	157.0	147.7	142.4	139.3	137.9
130°	293.9	257.6	228.9	207.9	190.2	175.8	163.7	153.9	147.9	144.1	142.8
132.5°	289.4	257.6	232.2	212.7	196.2	181.7	169.7	159.6	152.7	148.3	146.5
135°	284.1	257.6	236.7	219.5	204.2	189.7	177.2	167.5	160.0	154.4	152.5
137.5°	279.4	258.2	240.9	224.5	209.9	196.7	183.8	174.2	166.8	161.6	160.2
140°	277.2	258.6	242.8	227.9	213.9	200.5	187.9	179.0	171.6	166.0	164.6
142.5°	275.3	258.9	243.9	229.8	216.5	203.8	192.0	183.5	176.1	170.9	169.8
145°	272.6	258.6	245.1	232.5	220.9	208.8	198.1	189.7	183.2	178.6	177.7
147.5°	269.6	257.4	245.6	234.2	223.7	213.1	203.7	196.4	190.4	186.4	185.8
150°	267.4	256.2	245.6	235.3	225.6	215.3	207.4	200.9	194.9	191.6	190.7
152.5°	264.8	254.8	245.2	236.0	227.4	217.9	210.8	204.6	199.3	196.4	195.9
155°	260.4	252.1	244.2	236.7	229.3	221.4	214.8	210.2	205.5	202.8	202.8
157.5°	256.3	249.2	243.0	237.2	230.9	224.0	219.2	215.1	211.1	208.8	208.9
160°	253.0	247.4	241.8	237.2	231.6	225.6	221.4	217.7	214.4	212.5	213.0
162.5°	250.1	245.2	240.8	236.8	232.4	227.1	223.6	220.6	217.8	215.9	216.4
165°	245.6	241.8	239.0	236.3	232.5	228.9	226.0	224.1	221.8	220.5	221.4
167.5°	241.2	238.6	236.4	235.1	232.5	229.4	227.7	226.4	225.1	224.3	224.7
170°	238.6	236.7	235.3	234.4	232.5	230.2	228.9	227.9	227.0	226.5	227.0
172.5°	235.9	234.5	233.8	233.7	232.2	230.2	229.6	229.0	228.0	227.6	228.4
175°	232.5	232.0	232.0	232.5	231.6	230.2	230.2	230.2	229.8	229.3	230.2
177.5°	231.1	230.6	230.6	231.4	231.1	230.3	230.3	230.6	230.3	230.3	231.1
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6



TEST NUMBER: P333171-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-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°	6.6	7.1	8.0	9.4	10.4	11.4	12.1	11.7	10.9	10.3	9.6
90°	0.9	1.9	2.8	3.8	4.6	5.1	6.0	6.5	7.4	7.9	8.4
92.5°	6.8	10.8	16.6	24.5	38.2	63.5	106.2	152.4	149.9	121.4	82.4
95°	15.8	19.6	24.6	34.9	55.8	105.6	207.9	336.2	412.1	403.2	334.4
97.5°	26.0	28.6	33.8	43.0	58.0	91.0	165.9	300.3	440.0	510.2	498.0
100°	33.5	35.4	40.4	49.3	63.3	90.3	150.7	267.9	420.0	536.2	572.0
102.5°	40.9	42.4	47.9	56.0	69.5	93.6	144.4	243.3	384.6	520.6	597.0
105°	52.6	54.9	59.5	66.9	80.0	100.4	141.9	219.5	337.2	470.7	582.3
107.5°	65.4	67.6	71.4	79.2	90.9	110.7	146.1	209.5	304.5	419.7	529.8
110°	73.9	75.8	80.0	87.0	99.1	118.1	150.2	206.5	289.3	390.7	491.1



TEST NUMBER: P333171-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	82.5	84.0	88.2	95.1	106.9	125.2	155.4	206.5	280.4	369.1	460.6
115°	94.9	96.3	100.4	107.5	119.0	136.2	163.2	207.9	270.7	345.5	422.2
117.5°	106.5	108.0	112.2	120.1	131.3	147.7	172.2	210.9	266.0	331.5	397.5
120°	114.0	115.8	120.0	127.9	139.5	155.8	178.1	213.9	263.7	323.7	384.2
122.5°	121.4	122.9	127.0	135.7	147.3	163.6	184.8	216.5	261.9	317.0	374.1
125°	131.2	133.5	137.6	146.5	158.6	173.9	194.0	220.9	259.5	307.9	359.5
127.5°	139.3	142.4	147.7	157.0	169.1	183.8	202.3	225.8	258.4	299.5	344.6
130°	144.1	147.9	153.9	163.7	175.8	190.2	207.9	228.9	257.6	293.9	335.3
132.5°	148.3	152.7	159.6	169.7	181.7	196.2	212.7	232.2	257.6	289.4	326.0
135°	154.4	160.0	167.5	177.2	189.7	204.2	219.5	236.7	257.6	284.1	313.9
137.5°	161.6	166.8	174.2	183.8	196.7	209.9	224.5	240.9	258.2	279.4	303.7
140°	166.0	171.6	179.0	187.9	200.5	213.9	227.9	242.8	258.6	277.2	298.1
142.5°	170.9	176.1	183.5	192.0	203.8	216.5	229.8	243.9	258.9	275.3	293.3
145°	178.6	183.2	189.7	198.1	208.8	220.9	232.5	245.1	258.6	272.6	287.0
147.5°	186.4	190.4	196.4	203.7	213.1	223.7	234.2	245.6	257.4	269.6	281.0
150°	191.6	194.9	200.9	207.4	215.3	225.6	235.3	245.6	256.2	267.4	277.6
152.5°	196.4	199.3	204.6	210.8	217.9	227.4	236.0	245.2	254.8	264.8	273.9
155°	202.8	205.5	210.2	214.8	221.4	229.3	236.7	244.2	252.1	260.4	268.3
157.5°	208.8	211.1	215.1	219.2	224.0	230.9	237.2	243.0	249.2	256.3	262.8
160°	212.5	214.4	217.7	221.4	225.6	231.6	237.2	241.8	247.4	253.0	259.0
162.5°	215.9	217.8	220.6	223.6	227.1	232.4	236.8	240.8	245.2	250.1	254.9
165°	220.5	221.8	224.1	226.0	228.9	232.5	236.3	239.0	241.8	245.6	249.2
167.5°	224.3	225.1	226.4	227.7	229.4	232.5	235.1	236.4	238.6	241.2	243.9
170°	226.5	227.0	227.9	228.9	230.2	232.5	234.4	235.3	236.7	238.6	240.9
172.5°	227.6	228.0	229.0	229.6	230.2	232.2	233.7	233.8	234.5	235.9	237.6
175°	229.3	229.8	230.2	230.2	230.2	231.6	232.5	232.0	232.0	232.5	233.9
177.5°	230.3	230.3	230.6	230.3	230.3	231.1	231.4	230.6	230.6	231.1	231.4
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6



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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°	9.7	8.8	9.0	8.7	8.7	8.6	8.1
90°	8.8	9.3	10.2	10.2	10.2	10.7	10.7
92.5°	59.8	45.0	38.2	32.2	31.1	30.4	29.7
95°	263.7	206.5	167.5	134.4	120.4	116.8	109.3
97.5°	448.4	392.7	338.3	309.7	283.6	270.1	264.2
100°	549.3	501.3	453.0	420.9	387.4	370.2	362.7
102.5°	611.0	588.0	555.3	521.0	497.2	478.5	472.9
105°	646.0	666.4	661.3	646.5	631.1	621.8	616.2
107.5°	614.8	667.4	691.6	699.2	699.1	696.0	692.3
110°	579.5	645.1	684.6	705.5	714.4	717.6	717.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	544.5	610.8	657.5	688.0	703.2	711.3	714.6
115°	494.4	558.1	608.8	645.1	667.4	680.4	686.5
117.5°	459.7	514.5	561.1	597.4	620.4	633.3	637.1
120°	439.9	491.1	532.1	566.5	588.8	601.4	605.0
122.5°	425.8	471.4	509.7	540.4	560.8	573.4	576.7
125°	406.9	447.4	480.9	507.0	526.0	536.2	540.9
127.5°	388.9	426.6	458.0	481.6	498.5	508.1	510.2
130°	376.3	412.5	442.7	466.0	481.4	490.6	493.4
132.5°	364.4	397.3	426.4	449.6	465.0	473.5	476.7
135°	346.0	375.8	402.3	422.7	438.1	446.5	449.2
137.5°	329.6	354.4	376.9	395.2	409.2	416.9	420.0
140°	320.0	341.4	360.9	378.1	390.2	397.1	399.5
142.5°	311.8	330.2	347.2	361.7	371.9	378.5	380.5
145°	301.3	315.8	328.3	339.5	347.4	352.5	354.4
147.5°	292.7	303.8	313.2	322.1	328.4	331.4	332.2
150°	287.9	296.7	305.1	312.1	317.6	319.5	320.0
152.5°	283.1	291.1	297.7	303.5	307.9	309.8	310.3
155°	275.8	282.3	287.4	292.0	295.3	296.7	297.2
157.5°	268.9	273.9	277.9	281.5	284.2	285.5	285.4
160°	263.7	268.3	271.6	274.8	277.2	278.1	277.6
162.5°	259.3	263.1	266.0	268.6	270.5	270.7	270.6
165°	252.5	255.4	257.6	259.5	260.4	260.4	260.4
167.5°	246.1	248.2	249.8	250.8	251.6	251.2	251.1
170°	242.3	243.7	244.6	245.6	246.1	246.1	245.6
172.5°	239.0	239.9	240.5	240.8	241.6	240.8	240.4
175°	233.9	234.9	234.9	234.9	235.3	234.4	233.9
177.5°	231.8	231.8	231.8	231.4	231.8	230.6	230.6
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6

(END OF REPORT)