

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: P333528-830

Luminaire Tested: **S125RDIP-S610D590U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333528-830  
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: S125RDIP-S610D590U830-4F0-1E-UDD-A4  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 610 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4261.0 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.22 / 1.47  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: General Diffuse

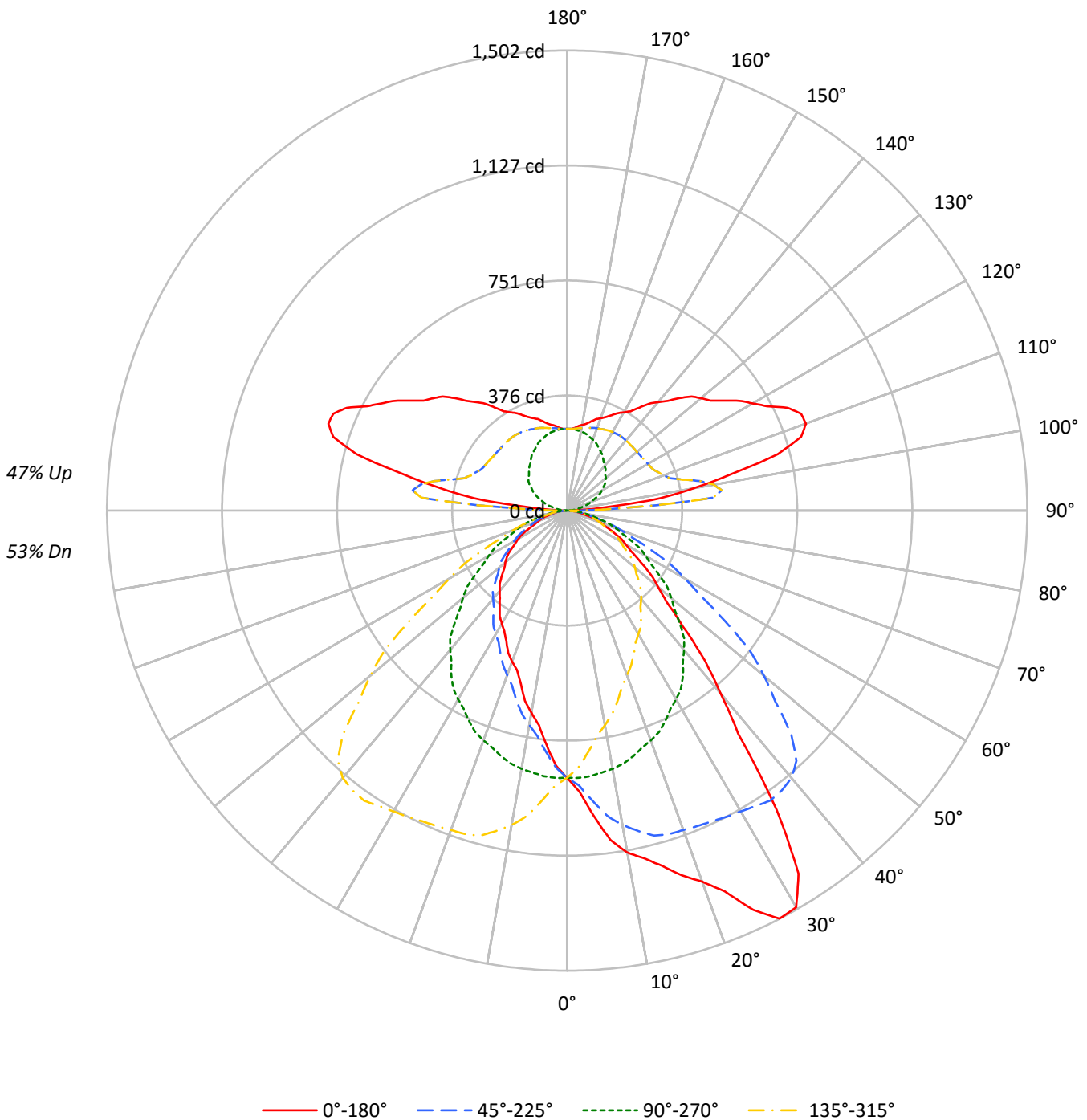
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	85	85	85	71	71	71	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	60	53	52	51	46
2	90	83	77	72	84	77	72	68	66	63	59	56	54	51	47	45	43	39
3	83	74	66	61	76	68	62	57	59	54	50	50	47	44	42	39	37	33
4	76	65	58	52	70	61	54	49	53	47	43	45	41	38	38	35	32	29
5	70	58	50	44	64	54	47	42	47	42	37	40	36	33	34	31	28	25
6	64	52	44	39	59	49	42	37	43	37	33	37	32	29	31	28	25	22
7	60	47	40	34	55	44	37	32	39	33	29	33	29	26	28	25	22	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	22	19	17	15

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

	0°	90°	180°	270°
0°	5633	5633	5633	5633
5°	6481	5641	4982	5641
10°	7434	5612	4395	5612
15°	8029	5554	3907	5554
20°	8854	5487	3608	5487
25°	10246	5399	3348	5399
30°	11150	5305	3177	5305
35°	9406	5196	3020	5196
40°	6568	5001	2886	5001
45°	4873	4738	2754	4738
50°	3885	4464	2640	4464
55°	3297	4124	2540	4124
60°	2849	3821	2378	3821
65°	2540	3492	2046	3492
70°	2232	3199	1866	3199
75°	1931	2770	1752	2770
80°	1465	2332	1465	2332
85°	1223	1830	1386	1830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.6	2.0
10°-20°	245.1	5.8
20°-30°	388.6	9.1
30°-40°	468.7	11.0
40°-50°	418.5	9.8
50°-60°	321.0	7.5
60°-70°	208.6	4.9
70°-80°	101.4	2.4
80°-90°	25.7	0.6
90°-100°	193.3	4.5
100°-110°	415.5	9.8
110°-120°	390.0	9.2
120°-130°	316.0	7.4
130°-140°	253.6	6.0
140°-150°	191.4	4.5
150°-160°	134.7	3.2
160°-170°	79.4	1.9
170°-180°	25.8	0.6
0°-30°	717.4	16.8
0°-40°	1186.0	27.8
0°-60°	1925.5	45.2
0°-90°	2261.2	53.1
90°-120°	998.8	23.4
90°-150°	1759.9	41.3
90°-180°	2000.0	46.9
0°-180°	4261.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	872	872	872	872	872	
5°	1000	870	768	870	1000	100
15°	1201	831	584	831	1201	344
25°	1438	758	470	758	1438	660
35°	1193	659	383	659	1193	721
45°	534	519	302	519	534	426
55°	293	366	226	366	293	266
65°	166	228	134	228	166	165
75°	77	111	70	111	77	82
85°	16	25	19	25	16	19
90°	12	1	12	1	12	9
95°	126	18	126	18	126	179
105°	712	61	712	61	712	708
115°	794	109	794	109	794	775
125°	625	150	625	150	625	566
135°	519	176	519	176	519	402
145°	410	205	410	205	410	260
155°	344	234	344	234	344	160
165°	301	256	301	256	301	86
175°	270	266	270	266	270	26
180°	267	267	267	267	267	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2
2.5°	917.5	916.9	918.0	914.8	915.2	910.3	910.3	906.5	901.7	898.0	896.3
5°	999.7	1000.4	998.9	993.5	990.0	984.6	978.5	967.8	958.8	950.3	943.5
7.5°	1084.3	1084.8	1080.1	1078.5	1069.4	1062.8	1049.3	1034.7	1021.7	1005.2	992.7
10°	1133.6	1133.2	1128.2	1124.3	1116.3	1106.4	1093.1	1075.9	1059.8	1041.9	1024.7
12.5°	1162.2	1161.3	1159.7	1154.9	1147.6	1138.7	1127.5	1110.6	1090.7	1071.1	1051.1
15°	1200.9	1198.3	1193.7	1187.6	1177.2	1166.9	1154.3	1139.3	1120.3	1098.2	1079.5
17.5°	1248.7	1248.8	1241.6	1233.2	1219.1	1200.7	1181.4	1157.2	1131.3	1106.9	1087.1
20°	1288.3	1287.1	1280.0	1263.6	1247.5	1224.6	1202.3	1172.6	1141.1	1109.2	1084.5
22.5°	1344.9	1342.2	1334.7	1313.1	1288.1	1258.6	1224.6	1188.4	1150.3	1114.1	1081.7
25°	1437.9	1435.8	1421.1	1396.0	1360.9	1315.4	1271.0	1221.3	1166.5	1118.9	1079.5
27.5°	1501.5	1499.1	1488.3	1467.4	1435.0	1387.2	1327.1	1260.7	1192.2	1126.7	1069.9
30°	1495.2	1500.5	1499.1	1489.5	1465.1	1422.1	1366.7	1291.8	1210.5	1133.6	1065.9
32.5°	1405.2	1410.0	1422.7	1441.6	1443.0	1425.9	1384.4	1315.3	1231.1	1143.6	1062.7
35°	1193.0	1199.5	1223.8	1262.1	1312.2	1354.2	1362.7	1325.5	1249.9	1155.7	1058.0
37.5°	917.2	952.4	972.9	1013.2	1088.9	1166.0	1240.1	1267.4	1235.3	1150.8	1050.4
40°	779.1	787.7	824.3	869.7	933.4	1013.6	1119.3	1195.5	1198.0	1139.3	1038.3
42.5°	666.8	677.7	702.8	739.0	793.6	873.8	982.9	1083.5	1130.1	1107.8	1022.6
45°	533.5	541.7	560.0	587.9	629.8	696.1	789.9	906.3	998.6	1034.7	980.3
47.5°	438.3	442.7	458.5	479.8	510.9	559.1	631.7	732.7	843.6	921.2	913.6
50°	386.7	391.7	403.9	420.0	446.1	486.9	545.0	629.1	743.3	838.2	857.1
52.5°	346.6	350.7	358.4	373.6	395.1	426.5	473.3	549.5	652.2	753.1	797.0
55°	292.8	295.8	301.8	310.4	327.6	350.2	390.6	443.3	526.3	628.0	692.5
57.5°	248.6	250.1	253.9	261.8	273.7	290.2	319.4	364.1	423.7	515.2	586.4
60°	220.6	222.0	227.0	232.3	241.7	256.7	279.7	310.8	368.1	443.7	515.6
62.5°	198.2	199.1	201.2	206.6	214.7	226.4	244.4	269.8	315.4	381.7	449.7
65°	166.2	166.5	167.2	171.5	176.5	185.1	196.9	214.8	249.2	299.4	359.5
67.5°	135.3	135.8	138.4	139.9	145.1	149.6	156.6	170.2	194.4	228.2	274.9
70°	118.2	117.8	120.3	122.1	123.9	129.2	133.9	145.0	160.0	185.9	224.9
72.5°	102.1	101.2	102.3	102.9	105.3	109.0	113.6	120.4	132.0	149.8	179.6
75°	77.4	77.7	77.7	78.4	80.2	81.6	83.0	86.6	93.1	104.9	121.0
77.5°	54.3	53.7	55.2	55.4	56.5	58.1	59.3	60.7	63.3	68.2	76.5
80°	39.4	39.4	39.8	40.8	40.4	41.2	43.0	44.4	47.6	50.5	53.3
82.5°	30.3	30.0	30.3	30.5	30.4	31.1	31.8	32.0	33.3	34.7	36.8
85°	16.5	16.5	16.9	16.9	17.2	17.2	17.5	17.5	17.5	17.9	18.3
87.5°	8.8	8.5	8.1	8.1	8.4	8.8	8.4	7.9	7.8	7.7	7.8
90°	12.3	12.3	11.8	11.8	11.8	10.7	10.2	9.7	9.1	8.6	7.5
92.5°	34.3	35.2	35.9	37.2	44.1	52.0	69.2	95.3	140.3	173.3	176.2
95°	126.4	135.0	139.2	155.4	193.6	238.7	304.8	386.5	466.2	476.4	388.7
97.5°	305.4	312.3	327.8	358.0	391.2	454.0	518.4	575.7	589.8	508.7	347.1
100°	419.3	428.0	447.9	486.5	523.7	579.6	635.0	661.3	619.9	485.5	309.7
102.5°	546.7	553.2	574.8	602.3	642.0	679.8	706.3	690.1	601.8	444.6	281.3
105°	712.4	718.9	729.6	747.3	764.5	770.4	746.8	673.2	544.1	389.8	253.7
107.5°	800.3	804.6	808.2	808.3	799.6	771.6	710.8	612.5	485.2	352.0	242.1
110°	829.6	829.6	825.9	815.6	791.5	745.7	670.0	567.8	451.7	334.4	238.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	826.1	822.3	812.9	795.4	760.1	706.2	629.5	532.5	426.7	324.1	238.7
115°	793.6	786.6	771.6	745.7	703.8	645.2	571.6	488.1	399.4	312.9	240.3
117.5°	736.5	732.2	717.3	690.6	648.7	594.8	531.4	459.6	383.2	307.5	243.8
120°	699.5	695.2	680.7	654.9	615.1	567.8	508.6	444.1	374.2	304.8	247.3
122.5°	666.8	662.9	648.4	624.7	589.3	545.0	492.3	432.5	366.5	302.7	250.3
125°	625.3	619.9	608.1	586.1	555.9	517.3	470.4	415.6	355.9	300.0	255.4
127.5°	589.8	587.4	576.3	556.8	529.5	493.2	449.6	398.4	346.3	298.7	261.1
130°	570.4	567.2	556.5	538.8	511.8	476.9	435.0	387.7	339.8	297.8	264.6
132.5°	551.1	547.4	537.5	519.8	492.9	459.3	421.2	376.9	334.6	297.8	268.4
135°	519.3	516.1	506.4	488.7	465.1	434.4	400.0	362.9	328.5	297.8	273.6
137.5°	485.5	481.9	473.1	456.9	435.7	409.7	381.1	351.1	323.0	298.5	278.5
140°	461.8	459.1	451.1	437.2	417.3	394.6	369.9	344.6	320.5	299.0	280.7
142.5°	439.9	437.6	430.0	418.2	401.3	381.7	360.4	339.0	318.3	299.4	281.9
145°	409.7	407.6	401.6	392.5	379.6	365.0	348.4	331.8	315.1	299.0	283.3
147.5°	384.1	383.1	379.7	372.4	362.1	351.2	338.4	324.9	311.7	297.6	283.9
150°	369.9	369.4	367.2	360.8	352.7	343.0	332.8	320.9	309.2	296.2	283.9
152.5°	358.7	358.2	356.0	350.9	344.1	336.6	327.3	316.7	306.1	294.5	283.4
155°	343.6	343.0	341.4	337.6	332.2	326.3	318.9	310.2	301.0	291.4	282.3
157.5°	330.0	330.1	328.6	325.5	321.3	316.7	310.9	303.8	296.3	288.1	280.9
160°	320.9	321.5	320.5	317.7	314.0	310.2	304.8	299.4	292.5	286.1	279.6
162.5°	312.8	312.9	312.7	310.5	307.6	304.2	299.7	294.7	289.1	283.4	278.3
165°	301.0	301.0	301.0	300.0	297.8	295.2	291.9	288.1	283.9	279.6	276.4
167.5°	290.3	290.4	290.9	289.9	288.8	286.9	284.5	281.9	278.8	275.8	273.3
170°	283.9	284.5	284.5	283.9	282.8	281.7	280.1	278.5	275.8	273.6	272.0
172.5°	277.9	278.4	279.3	278.3	278.1	277.4	276.3	274.7	272.8	271.1	270.3
175°	270.4	271.0	272.0	271.5	271.5	271.5	270.4	270.4	268.8	268.2	268.2
177.5°	266.6	266.6	268.0	267.5	268.0	268.0	268.0	267.5	267.1	266.6	266.6
180°	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2
2.5°	896.3	894.3	890.5	887.1	882.8	879.1	876.5	873.4	869.3	864.5	860.4
5°	935.9	928.0	917.7	908.7	897.3	888.3	879.0	870.1	861.1	849.6	839.6
7.5°	979.9	963.7	947.8	927.9	909.8	893.7	878.3	862.6	847.3	831.0	815.3
10°	1006.8	987.1	965.3	940.2	917.3	895.5	875.4	855.7	835.0	816.7	797.0
12.5°	1032.0	1006.6	981.7	950.0	922.5	895.8	870.2	845.7	823.5	799.8	778.6
15°	1054.8	1029.7	1001.8	963.2	924.8	892.6	862.5	830.7	803.1	776.6	753.0
17.5°	1063.6	1037.4	1004.8	967.7	925.9	885.3	846.6	811.6	779.2	748.3	721.7
20°	1060.2	1034.7	1001.5	966.0	921.2	879.0	837.1	798.4	762.2	729.7	701.4
22.5°	1051.9	1025.6	993.4	956.0	913.5	868.6	824.0	782.7	744.8	711.1	680.2
25°	1039.4	1003.6	970.6	934.2	893.7	849.3	803.1	757.6	717.2	682.8	649.1
27.5°	1026.4	981.8	939.9	903.5	860.8	821.2	776.7	730.1	687.5	652.5	618.0
30°	1014.7	964.6	918.4	877.2	836.8	799.2	756.9	711.4	667.8	631.6	596.5
32.5°	1000.1	946.8	896.1	848.6	809.5	772.2	734.0	690.5	648.0	610.7	575.0
35°	981.8	913.7	858.6	808.1	764.8	728.6	694.3	659.1	616.5	577.9	543.2
37.5°	957.7	880.5	816.7	761.7	716.0	679.7	652.6	620.5	581.6	544.6	512.4
40°	943.1	856.5	786.6	732.2	684.2	645.9	620.5	593.2	557.8	523.1	490.9
42.5°	923.6	834.4	756.3	699.6	651.3	614.4	588.7	565.0	535.2	502.5	468.0
45°	885.4	791.6	709.6	648.8	600.1	563.9	539.9	518.8	496.2	466.2	436.1
47.5°	835.8	747.1	661.2	594.7	547.1	513.5	490.2	473.5	457.4	431.9	402.7
50°	796.0	710.4	626.6	562.1	511.3	479.4	457.6	444.3	429.6	406.4	382.0
52.5°	748.9	672.6	590.5	524.6	476.6	446.8	425.7	412.6	400.4	381.4	358.3
55°	675.0	607.9	532.7	473.0	429.0	398.9	378.8	366.3	359.1	343.0	324.7
57.5°	589.5	541.5	475.2	417.5	378.6	348.8	334.2	323.6	315.5	304.1	291.2
60°	529.9	496.2	436.8	382.0	346.2	317.9	304.7	295.8	288.2	278.5	268.5
62.5°	469.5	445.0	393.3	346.2	313.3	289.5	277.2	269.1	260.4	253.9	244.2
65°	388.5	366.6	330.8	294.0	263.5	244.6	235.6	228.5	223.1	215.9	209.1
67.5°	302.2	293.3	268.6	243.2	221.3	204.4	196.7	191.7	185.2	181.0	176.3
70°	249.2	244.9	227.3	210.6	190.1	178.7	171.5	169.4	161.5	157.2	153.9
72.5°	202.3	200.2	190.1	178.4	164.1	154.0	147.4	145.0	140.0	136.6	134.5
75°	138.6	139.3	137.5	130.0	124.6	118.2	112.4	111.0	107.4	104.5	102.7
77.5°	87.7	91.3	91.4	91.0	89.0	85.0	82.7	81.5	78.0	77.0	76.5
80°	60.1	64.1	67.7	67.3	66.6	65.5	63.7	62.7	60.9	59.8	59.1
82.5°	40.1	43.7	46.8	48.7	48.5	47.5	46.3	45.7	45.4	44.6	44.5
85°	18.9	19.7	20.7	23.3	25.1	25.4	25.1	24.7	23.7	24.0	24.3
87.5°	8.0	7.7	7.9	7.7	7.3	8.5	9.0	9.2	8.8	8.5	8.1
90°	7.0	5.9	5.4	4.3	3.2	2.2	1.0	0.6	1.0	2.2	3.2
92.5°	122.7	73.4	44.1	28.4	19.1	12.4	7.9	6.6	7.9	12.4	19.1
95°	240.3	122.1	64.6	40.3	28.5	22.6	18.3	17.7	18.3	22.6	28.5
97.5°	191.8	105.2	67.1	49.7	39.0	33.1	30.1	29.5	30.1	33.1	39.0
100°	174.2	104.3	73.1	57.0	46.8	40.9	38.7	37.6	38.7	40.9	46.8
102.5°	166.9	108.2	80.4	64.8	55.4	49.0	47.3	46.7	47.3	49.0	55.4
105°	164.0	116.1	92.5	77.4	68.8	63.4	60.8	60.8	60.8	63.4	68.8
107.5°	168.9	128.0	105.1	91.5	82.6	78.1	75.6	74.6	75.6	78.1	82.6
110°	173.6	136.6	114.5	100.6	92.5	87.7	85.5	84.5	85.5	87.7	92.5





TEST NUMBER: P333528-830

CATALOG NUMBER: S125RDIP-S610D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	179.6	144.8	123.6	110.0	102.0	97.1	95.4	94.3	95.4	97.1	102.0
115°	188.7	157.5	137.6	124.2	116.1	111.3	109.7	108.6	109.7	111.3	116.1
117.5°	199.1	170.7	151.8	138.8	129.7	124.9	123.1	121.5	123.1	124.9	129.7
120°	205.9	180.1	161.3	147.9	138.7	133.8	131.8	130.1	131.8	133.8	138.7
122.5°	213.7	189.2	170.3	156.9	146.8	142.0	140.3	139.1	140.3	142.0	146.8
125°	224.2	201.0	183.3	169.4	159.1	154.3	151.7	150.5	151.7	154.3	159.1
127.5°	233.8	212.5	195.5	181.5	170.7	164.6	161.1	159.5	161.1	164.6	170.7
130°	240.3	219.9	203.2	189.3	178.0	171.0	166.6	165.0	166.6	171.0	178.0
132.5°	245.9	226.8	210.1	196.1	184.5	176.5	171.4	169.4	171.4	176.5	184.5
135°	253.7	236.0	219.3	204.8	193.6	184.9	178.5	176.3	178.5	184.9	193.6
137.5°	259.6	242.6	227.4	212.4	201.4	192.8	186.8	185.2	186.8	192.8	201.4
140°	263.4	247.3	231.8	217.3	207.0	198.4	191.9	190.3	191.9	198.4	207.0
142.5°	265.6	250.3	235.6	222.0	212.2	203.6	197.6	196.3	197.6	203.6	212.2
145°	268.8	255.4	241.4	229.0	219.3	211.8	206.4	205.4	206.4	211.8	219.3
147.5°	270.8	258.6	246.4	235.4	227.1	220.1	215.5	214.8	215.5	220.1	227.1
150°	272.0	260.8	248.9	239.8	232.2	225.3	221.5	220.5	221.5	225.3	232.2
152.5°	272.9	262.9	251.9	243.6	236.6	230.5	227.1	226.5	227.1	230.5	236.6
155°	273.6	265.0	255.9	248.4	243.0	237.6	234.4	234.4	234.4	237.6	243.0
157.5°	274.2	266.9	259.0	253.4	248.6	244.0	241.4	241.5	241.4	244.0	248.6
160°	274.2	267.8	260.8	255.9	251.7	247.9	245.7	246.3	245.7	247.9	251.7
162.5°	273.8	268.6	262.5	258.5	255.1	251.8	249.6	250.2	249.6	251.8	255.1
165°	273.1	268.8	264.6	261.3	259.1	256.5	254.9	255.9	254.9	256.5	259.1
167.5°	271.8	268.8	265.2	263.3	261.7	260.2	259.3	259.8	259.3	260.2	261.7
170°	271.0	268.8	266.2	264.6	263.4	262.4	261.8	262.4	261.8	262.4	263.4
172.5°	270.1	268.4	266.2	265.4	264.8	263.6	263.2	264.1	263.2	263.6	264.8
175°	268.8	267.8	266.2	266.2	266.2	265.6	265.0	266.2	265.0	265.6	266.2
177.5°	267.5	267.1	266.3	266.3	266.6	266.3	266.3	267.1	266.3	266.3	266.6
180°	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6



TEST NUMBER: P333528-830

CATALOG NUMBER: S125RDIP-S610D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2
2.5°	857.6	853.6	850.7	845.0	840.9	839.2	836.1	835.3	838.4	836.1	835.8
5°	832.1	821.7	813.5	805.2	796.3	790.6	781.9	780.5	778.4	775.1	774.5
7.5°	801.5	788.0	777.4	763.7	752.0	742.4	731.7	726.6	723.8	719.6	714.1
10°	780.9	764.8	750.5	736.9	722.2	710.4	699.6	691.4	686.0	681.0	678.8
12.5°	760.5	744.1	725.9	709.4	693.0	679.7	667.8	662.4	656.5	650.6	645.6
15°	729.0	707.1	687.1	668.1	654.1	639.8	628.4	620.5	611.5	609.1	599.4
17.5°	695.5	674.0	650.5	630.6	614.4	598.6	586.1	577.1	570.3	561.1	556.7
20°	674.6	649.1	626.2	607.9	590.0	571.5	558.6	551.0	544.6	537.1	533.5
22.5°	652.2	627.4	603.9	582.5	564.3	545.9	536.8	529.0	521.7	514.7	510.0
25°	619.4	594.4	569.7	547.4	528.5	515.2	504.4	495.5	491.6	484.7	479.8
27.5°	587.0	560.3	534.7	512.6	497.7	484.6	475.8	468.7	461.6	455.6	451.3
30°	566.1	538.9	511.0	493.4	477.6	465.1	455.4	448.7	443.3	437.9	434.7
32.5°	545.2	517.1	492.3	473.3	458.5	447.6	437.7	431.1	425.5	419.5	415.8
35°	511.6	483.0	463.0	444.3	429.6	419.6	412.8	403.5	398.9	394.5	390.6
37.5°	480.5	453.8	432.2	415.8	403.1	393.1	384.4	379.3	373.6	369.8	366.5
40°	457.6	433.2	413.6	396.3	387.0	376.0	367.7	361.3	356.9	351.9	348.4
42.5°	437.0	414.3	395.2	379.8	368.2	358.7	350.8	344.4	338.9	335.4	332.3
45°	407.8	385.2	366.6	352.3	341.6	332.6	324.4	321.1	314.0	309.7	308.3
47.5°	377.7	357.5	339.5	326.3	315.3	306.8	299.1	292.6	288.6	284.4	282.1
50°	357.3	338.0	321.1	308.3	297.6	288.2	281.1	276.7	271.4	267.5	264.6
52.5°	337.0	319.1	302.3	289.9	280.6	271.4	263.3	259.0	253.9	251.4	249.4
55°	307.9	289.0	274.7	262.4	252.8	244.2	236.7	232.3	229.1	226.7	225.9
57.5°	274.9	260.0	246.7	235.6	225.6	217.5	210.9	206.9	204.1	203.7	201.5
60°	253.4	239.9	227.7	215.9	207.3	199.8	194.1	189.5	186.5	186.2	185.5
62.5°	232.1	219.0	207.6	197.3	189.5	182.3	176.9	171.6	169.9	168.1	166.5
65°	200.1	188.3	179.0	170.8	162.6	156.5	151.1	147.9	143.9	141.8	137.9
67.5°	168.8	159.7	150.7	143.8	137.3	131.6	127.1	122.3	119.7	117.9	115.1
70°	148.3	141.1	132.1	124.6	119.6	114.9	111.3	105.9	104.2	102.7	101.3
72.5°	128.8	122.4	114.9	108.9	103.9	99.4	95.3	92.8	91.0	89.5	88.7
75°	101.3	95.2	88.8	84.5	81.0	77.4	75.2	73.4	72.7	72.3	70.9
77.5°	74.4	71.2	66.0	62.6	60.2	58.8	56.8	55.9	55.9	54.3	53.8
80°	56.9	55.1	50.8	49.4	47.6	46.2	45.1	43.4	41.6	40.8	39.8
82.5°	42.3	40.5	38.8	36.5	35.1	34.1	33.1	32.4	32.6	31.7	31.1
85°	22.5	20.7	20.1	19.7	18.9	19.7	19.3	18.9	18.7	18.3	18.7
87.5°	8.0	8.2	8.0	8.9	8.1	8.6	8.7	8.5	8.7	8.8	8.7
90°	4.3	5.4	5.9	7.0	7.5	8.6	9.1	9.7	10.2	10.7	11.8
92.5°	28.4	44.1	73.4	122.7	176.2	173.3	140.3	95.3	69.2	52.0	44.1
95°	40.3	64.6	122.1	240.3	388.7	476.4	466.2	386.5	304.8	238.7	193.6
97.5°	49.7	67.1	105.2	191.8	347.1	508.7	589.8	575.7	518.4	454.0	391.2
100°	57.0	73.1	104.3	174.2	309.7	485.5	619.9	661.3	635.0	579.6	523.7
102.5°	64.8	80.4	108.2	166.9	281.3	444.6	601.8	690.1	706.3	679.8	642.0
105°	77.4	92.5	116.1	164.0	253.7	389.8	544.1	673.2	746.8	770.4	764.5
107.5°	91.5	105.1	128.0	168.9	242.1	352.0	485.2	612.5	710.8	771.6	799.6
110°	100.6	114.5	136.6	173.6	238.7	334.4	451.7	567.8	670.0	745.7	791.5



TEST NUMBER: P333528-830

CATALOG NUMBER: S125RDIP-S610D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	110.0	123.6	144.8	179.6	238.7	324.1	426.7	532.5	629.5	706.2	760.1
115°	124.2	137.6	157.5	188.7	240.3	312.9	399.4	488.1	571.6	645.2	703.8
117.5°	138.8	151.8	170.7	199.1	243.8	307.5	383.2	459.6	531.4	594.8	648.7
120°	147.9	161.3	180.1	205.9	247.3	304.8	374.2	444.1	508.6	567.8	615.1
122.5°	156.9	170.3	189.2	213.7	250.3	302.7	366.5	432.5	492.3	545.0	589.3
125°	169.4	183.3	201.0	224.2	255.4	300.0	355.9	415.6	470.4	517.3	555.9
127.5°	181.5	195.5	212.5	233.8	261.1	298.7	346.3	398.4	449.6	493.2	529.5
130°	189.3	203.2	219.9	240.3	264.6	297.8	339.8	387.7	435.0	476.9	511.8
132.5°	196.1	210.1	226.8	245.9	268.4	297.8	334.6	376.9	421.2	459.3	492.9
135°	204.8	219.3	236.0	253.7	273.6	297.8	328.5	362.9	400.0	434.4	465.1
137.5°	212.4	227.4	242.6	259.6	278.5	298.5	323.0	351.1	381.1	409.7	435.7
140°	217.3	231.8	247.3	263.4	280.7	299.0	320.5	344.6	369.9	394.6	417.3
142.5°	222.0	235.6	250.3	265.6	281.9	299.4	318.3	339.0	360.4	381.7	401.3
145°	229.0	241.4	255.4	268.8	283.3	299.0	315.1	331.8	348.4	365.0	379.6
147.5°	235.4	246.4	258.6	270.8	283.9	297.6	311.7	324.9	338.4	351.2	362.1
150°	239.8	248.9	260.8	272.0	283.9	296.2	309.2	320.9	332.8	343.0	352.7
152.5°	243.6	251.9	262.9	272.9	283.4	294.5	306.1	316.7	327.3	336.6	344.1
155°	248.4	255.9	265.0	273.6	282.3	291.4	301.0	310.2	318.9	326.3	332.2
157.5°	253.4	259.0	266.9	274.2	280.9	288.1	296.3	303.8	310.9	316.7	321.3
160°	255.9	260.8	267.8	274.2	279.6	286.1	292.5	299.4	304.8	310.2	314.0
162.5°	258.5	262.5	268.6	273.8	278.3	283.4	289.1	294.7	299.7	304.2	307.6
165°	261.3	264.6	268.8	273.1	276.4	279.6	283.9	288.1	291.9	295.2	297.8
167.5°	263.3	265.2	268.8	271.8	273.3	275.8	278.8	281.9	284.5	286.9	288.8
170°	264.6	266.2	268.8	271.0	272.0	273.6	275.8	278.5	280.1	281.7	282.8
172.5°	265.4	266.2	268.4	270.1	270.3	271.1	272.8	274.7	276.3	277.4	278.1
175°	266.2	266.2	267.8	268.8	268.2	268.2	268.8	270.4	270.4	271.5	271.5
177.5°	266.3	266.3	267.1	267.5	266.6	266.6	267.1	267.5	268.0	268.0	268.0
180°	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6



TEST NUMBER: P333528-830

CATALOG NUMBER: S125RDIP-S610D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2
2.5°	835.6	832.4	831.5	832.6	831.5	832.4	835.6	835.8	836.1	838.4	835.3
5°	770.9	767.3	769.1	768.4	769.1	767.3	770.9	774.5	775.1	778.4	780.5
7.5°	714.0	709.5	704.8	706.3	704.8	709.5	714.0	714.1	719.6	723.8	726.6
10°	674.2	670.6	668.5	670.2	668.5	670.6	674.2	678.8	681.0	686.0	691.4
12.5°	640.6	638.6	636.7	635.9	636.7	638.6	640.6	645.6	650.6	656.5	662.4
15°	595.0	590.8	589.0	584.4	589.0	590.8	595.0	599.4	609.1	611.5	620.5
17.5°	553.0	551.6	547.0	545.0	547.0	551.6	553.0	556.7	561.1	570.3	577.1
20°	528.1	526.7	522.1	524.9	522.1	526.7	528.1	533.5	537.1	544.6	551.0
22.5°	507.5	504.4	502.8	502.0	502.8	504.4	507.5	510.0	514.7	521.7	529.0
25°	478.3	473.7	471.9	469.8	471.9	473.7	478.3	479.8	484.7	491.6	495.5
27.5°	449.3	446.8	444.4	443.8	444.4	446.8	449.3	451.3	455.6	461.6	468.7
30°	430.4	427.8	426.0	426.0	426.0	427.8	430.4	434.7	437.9	443.3	448.7
32.5°	413.5	411.5	409.7	409.4	409.7	411.5	413.5	415.8	419.5	425.5	431.1
35°	388.8	386.0	385.2	383.1	385.2	386.0	388.8	390.6	394.5	398.9	403.5
37.5°	363.3	360.9	360.8	360.6	360.8	360.9	363.3	366.5	369.8	373.6	379.3
40°	346.9	345.2	344.8	342.3	344.8	345.2	346.9	348.4	351.9	356.9	361.3
42.5°	329.5	328.6	327.3	326.2	327.3	328.6	329.5	332.3	335.4	338.9	344.4
45°	305.8	303.3	303.3	301.5	303.3	303.3	305.8	308.3	309.7	314.0	321.1
47.5°	281.3	279.4	279.6	277.7	279.6	279.4	281.3	282.1	284.4	288.6	292.6
50°	264.9	263.9	263.5	262.8	263.5	263.9	264.9	264.6	267.5	271.4	276.7
52.5°	248.6	248.2	249.5	247.9	249.5	248.2	248.6	249.4	251.4	253.9	259.0
55°	226.7	225.6	227.7	225.6	227.7	225.6	226.7	225.9	226.7	229.1	232.3
57.5°	201.3	200.4	202.3	201.2	202.3	200.4	201.3	201.5	203.7	204.1	206.9
60°	184.7	182.6	183.7	184.1	183.7	182.6	184.7	185.5	186.2	186.5	189.5
62.5°	164.9	163.7	164.5	162.9	164.5	163.7	164.9	166.5	168.1	169.9	171.6
65°	137.1	136.1	134.6	133.9	134.6	136.1	137.1	137.9	141.8	143.9	147.9
67.5°	115.2	112.6	112.5	113.1	112.5	112.6	115.2	115.1	117.9	119.7	122.3
70°	99.2	99.2	98.8	98.8	98.8	99.2	99.2	101.3	102.7	104.2	105.9
72.5°	88.0	87.8	87.1	86.8	87.1	87.8	88.0	88.7	89.5	91.0	92.8
75°	70.9	71.3	70.5	70.2	70.5	71.3	70.9	70.9	72.3	72.7	73.4
77.5°	52.3	50.8	51.7	50.8	51.7	50.8	52.3	53.8	54.3	55.9	55.9
80°	39.8	39.4	40.4	39.4	40.4	39.4	39.8	39.8	40.8	41.6	43.4
82.5°	31.5	31.1	31.6	30.8	31.6	31.1	31.5	31.1	31.7	32.6	32.4
85°	18.9	18.7	18.3	18.7	18.3	18.7	18.9	18.7	18.3	18.7	18.9
87.5°	9.0	8.7	8.8	8.8	8.8	8.7	9.0	8.7	8.8	8.7	8.5
90°	11.8	11.8	12.3	12.3	12.3	11.8	11.8	11.8	10.7	10.2	9.7
92.5°	37.2	35.9	35.2	34.3	35.2	35.9	37.2	44.1	52.0	69.2	95.3
95°	155.4	139.2	135.0	126.4	135.0	139.2	155.4	193.6	238.7	304.8	386.5
97.5°	358.0	327.8	312.3	305.4	312.3	327.8	358.0	391.2	454.0	518.4	575.7
100°	486.5	447.9	428.0	419.3	428.0	447.9	486.5	523.7	579.6	635.0	661.3
102.5°	602.3	574.8	553.2	546.7	553.2	574.8	602.3	642.0	679.8	706.3	690.1
105°	747.3	729.6	718.9	712.4	718.9	729.6	747.3	764.5	770.4	746.8	673.2
107.5°	808.3	808.2	804.6	800.3	804.6	808.2	808.3	799.6	771.6	710.8	612.5
110°	815.6	825.9	829.6	829.6	829.6	825.9	815.6	791.5	745.7	670.0	567.8



TEST NUMBER: P333528-830

CATALOG NUMBER: S125RDIP-S610D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	795.4	812.9	822.3	826.1	822.3	812.9	795.4	760.1	706.2	629.5	532.5
115°	745.7	771.6	786.6	793.6	786.6	771.6	745.7	703.8	645.2	571.6	488.1
117.5°	690.6	717.3	732.2	736.5	732.2	717.3	690.6	648.7	594.8	531.4	459.6
120°	654.9	680.7	695.2	699.5	695.2	680.7	654.9	615.1	567.8	508.6	444.1
122.5°	624.7	648.4	662.9	666.8	662.9	648.4	624.7	589.3	545.0	492.3	432.5
125°	586.1	608.1	619.9	625.3	619.9	608.1	586.1	555.9	517.3	470.4	415.6
127.5°	556.8	576.3	587.4	589.8	587.4	576.3	556.8	529.5	493.2	449.6	398.4
130°	538.8	556.5	567.2	570.4	567.2	556.5	538.8	511.8	476.9	435.0	387.7
132.5°	519.8	537.5	547.4	551.1	547.4	537.5	519.8	492.9	459.3	421.2	376.9
135°	488.7	506.4	516.1	519.3	516.1	506.4	488.7	465.1	434.4	400.0	362.9
137.5°	456.9	473.1	481.9	485.5	481.9	473.1	456.9	435.7	409.7	381.1	351.1
140°	437.2	451.1	459.1	461.8	459.1	451.1	437.2	417.3	394.6	369.9	344.6
142.5°	418.2	430.0	437.6	439.9	437.6	430.0	418.2	401.3	381.7	360.4	339.0
145°	392.5	401.6	407.6	409.7	407.6	401.6	392.5	379.6	365.0	348.4	331.8
147.5°	372.4	379.7	383.1	384.1	383.1	379.7	372.4	362.1	351.2	338.4	324.9
150°	360.8	367.2	369.4	369.9	369.4	367.2	360.8	352.7	343.0	332.8	320.9
152.5°	350.9	356.0	358.2	358.7	358.2	356.0	350.9	344.1	336.6	327.3	316.7
155°	337.6	341.4	343.0	343.6	343.0	341.4	337.6	332.2	326.3	318.9	310.2
157.5°	325.5	328.6	330.1	330.0	330.1	328.6	325.5	321.3	316.7	310.9	303.8
160°	317.7	320.5	321.5	320.9	321.5	320.5	317.7	314.0	310.2	304.8	299.4
162.5°	310.5	312.7	312.9	312.8	312.9	312.7	310.5	307.6	304.2	299.7	294.7
165°	300.0	301.0	301.0	301.0	301.0	301.0	300.0	297.8	295.2	291.9	288.1
167.5°	289.9	290.9	290.4	290.3	290.4	290.9	289.9	288.8	286.9	284.5	281.9
170°	283.9	284.5	284.5	283.9	284.5	284.5	283.9	282.8	281.7	280.1	278.5
172.5°	278.3	279.3	278.4	277.9	278.4	279.3	278.3	278.1	277.4	276.3	274.7
175°	271.5	272.0	271.0	270.4	271.0	272.0	271.5	271.5	271.5	270.4	270.4
177.5°	267.5	268.0	266.6	266.6	266.6	268.0	267.5	268.0	268.0	268.0	267.5
180°	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6



TEST NUMBER: P333528-830

CATALOG NUMBER: S125RDIP-S610D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2
2.5°	836.1	839.2	840.9	845.0	850.7	853.6	857.6	860.4	864.5	869.3	873.4
5°	781.9	790.6	796.3	805.2	813.5	821.7	832.1	839.6	849.6	861.1	870.1
7.5°	731.7	742.4	752.0	763.7	777.4	788.0	801.5	815.3	831.0	847.3	862.6
10°	699.6	710.4	722.2	736.9	750.5	764.8	780.9	797.0	816.7	835.0	855.7
12.5°	667.8	679.7	693.0	709.4	725.9	744.1	760.5	778.6	799.8	823.5	845.7
15°	628.4	639.8	654.1	668.1	687.1	707.1	729.0	753.0	776.6	803.1	830.7
17.5°	586.1	598.6	614.4	630.6	650.5	674.0	695.5	721.7	748.3	779.2	811.6
20°	558.6	571.5	590.0	607.9	626.2	649.1	674.6	701.4	729.7	762.2	798.4
22.5°	536.8	545.9	564.3	582.5	603.9	627.4	652.2	680.2	711.1	744.8	782.7
25°	504.4	515.2	528.5	547.4	569.7	594.4	619.4	649.1	682.8	717.2	757.6
27.5°	475.8	484.6	497.7	512.6	534.7	560.3	587.0	618.0	652.5	687.5	730.1
30°	455.4	465.1	477.6	493.4	511.0	538.9	566.1	596.5	631.6	667.8	711.4
32.5°	437.7	447.6	458.5	473.3	492.3	517.1	545.2	575.0	610.7	648.0	690.5
35°	412.8	419.6	429.6	444.3	463.0	483.0	511.6	543.2	577.9	616.5	659.1
37.5°	384.4	393.1	403.1	415.8	432.2	453.8	480.5	512.4	544.6	581.6	620.5
40°	367.7	376.0	387.0	396.3	413.6	433.2	457.6	490.9	523.1	557.8	593.2
42.5°	350.8	358.7	368.2	379.8	395.2	414.3	437.0	468.0	502.5	535.2	565.0
45°	324.4	332.6	341.6	352.3	366.6	385.2	407.8	436.1	466.2	496.2	518.8
47.5°	299.1	306.8	315.3	326.3	339.5	357.5	377.7	402.7	431.9	457.4	473.5
50°	281.1	288.2	297.6	308.3	321.1	338.0	357.3	382.0	406.4	429.6	444.3
52.5°	263.3	271.4	280.6	289.9	302.3	319.1	337.0	358.3	381.4	400.4	412.6
55°	236.7	244.2	252.8	262.4	274.7	289.0	307.9	324.7	343.0	359.1	366.3
57.5°	210.9	217.5	225.6	235.6	246.7	260.0	274.9	291.2	304.1	315.5	323.6
60°	194.1	199.8	207.3	215.9	227.7	239.9	253.4	268.5	278.5	288.2	295.8
62.5°	176.9	182.3	189.5	197.3	207.6	219.0	232.1	244.2	253.9	260.4	269.1
65°	151.1	156.5	162.6	170.8	179.0	188.3	200.1	209.1	215.9	223.1	228.5
67.5°	127.1	131.6	137.3	143.8	150.7	159.7	168.8	176.3	181.0	185.2	191.7
70°	111.3	114.9	119.6	124.6	132.1	141.1	148.3	153.9	157.2	161.5	169.4
72.5°	95.3	99.4	103.9	108.9	114.9	122.4	128.8	134.5	136.6	140.0	145.0
75°	75.2	77.4	81.0	84.5	88.8	95.2	101.3	102.7	104.5	107.4	111.0
77.5°	56.8	58.8	60.2	62.6	66.0	71.2	74.4	76.5	77.0	78.0	81.5
80°	45.1	46.2	47.6	49.4	50.8	55.1	56.9	59.1	59.8	60.9	62.7
82.5°	33.1	34.1	35.1	36.5	38.8	40.5	42.3	44.5	44.6	45.4	45.7
85°	19.3	19.7	18.9	19.7	20.1	20.7	22.5	24.3	24.0	23.7	24.7
87.5°	8.7	8.6	8.1	8.9	8.0	8.2	8.0	8.1	8.5	8.8	9.2
90°	9.1	8.6	7.5	7.0	5.9	5.4	4.3	3.2	2.2	1.0	0.6
92.5°	140.3	173.3	176.2	122.7	73.4	44.1	28.4	19.1	12.4	7.9	6.6
95°	466.2	476.4	388.7	240.3	122.1	64.6	40.3	28.5	22.6	18.3	17.7
97.5°	589.8	508.7	347.1	191.8	105.2	67.1	49.7	39.0	33.1	30.1	29.5
100°	619.9	485.5	309.7	174.2	104.3	73.1	57.0	46.8	40.9	38.7	37.6
102.5°	601.8	444.6	281.3	166.9	108.2	80.4	64.8	55.4	49.0	47.3	46.7
105°	544.1	389.8	253.7	164.0	116.1	92.5	77.4	68.8	63.4	60.8	60.8
107.5°	485.2	352.0	242.1	168.9	128.0	105.1	91.5	82.6	78.1	75.6	74.6
110°	451.7	334.4	238.7	173.6	136.6	114.5	100.6	92.5	87.7	85.5	84.5



TEST NUMBER: P333528-830

CATALOG NUMBER: S125RDIP-S610D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	426.7	324.1	238.7	179.6	144.8	123.6	110.0	102.0	97.1	95.4	94.3
115°	399.4	312.9	240.3	188.7	157.5	137.6	124.2	116.1	111.3	109.7	108.6
117.5°	383.2	307.5	243.8	199.1	170.7	151.8	138.8	129.7	124.9	123.1	121.5
120°	374.2	304.8	247.3	205.9	180.1	161.3	147.9	138.7	133.8	131.8	130.1
122.5°	366.5	302.7	250.3	213.7	189.2	170.3	156.9	146.8	142.0	140.3	139.1
125°	355.9	300.0	255.4	224.2	201.0	183.3	169.4	159.1	154.3	151.7	150.5
127.5°	346.3	298.7	261.1	233.8	212.5	195.5	181.5	170.7	164.6	161.1	159.5
130°	339.8	297.8	264.6	240.3	219.9	203.2	189.3	178.0	171.0	166.6	165.0
132.5°	334.6	297.8	268.4	245.9	226.8	210.1	196.1	184.5	176.5	171.4	169.4
135°	328.5	297.8	273.6	253.7	236.0	219.3	204.8	193.6	184.9	178.5	176.3
137.5°	323.0	298.5	278.5	259.6	242.6	227.4	212.4	201.4	192.8	186.8	185.2
140°	320.5	299.0	280.7	263.4	247.3	231.8	217.3	207.0	198.4	191.9	190.3
142.5°	318.3	299.4	281.9	265.6	250.3	235.6	222.0	212.2	203.6	197.6	196.3
145°	315.1	299.0	283.3	268.8	255.4	241.4	229.0	219.3	211.8	206.4	205.4
147.5°	311.7	297.6	283.9	270.8	258.6	246.4	235.4	227.1	220.1	215.5	214.8
150°	309.2	296.2	283.9	272.0	260.8	248.9	239.8	232.2	225.3	221.5	220.5
152.5°	306.1	294.5	283.4	272.9	262.9	251.9	243.6	236.6	230.5	227.1	226.5
155°	301.0	291.4	282.3	273.6	265.0	255.9	248.4	243.0	237.6	234.4	234.4
157.5°	296.3	288.1	280.9	274.2	266.9	259.0	253.4	248.6	244.0	241.4	241.5
160°	292.5	286.1	279.6	274.2	267.8	260.8	255.9	251.7	247.9	245.7	246.3
162.5°	289.1	283.4	278.3	273.8	268.6	262.5	258.5	255.1	251.8	249.6	250.2
165°	283.9	279.6	276.4	273.1	268.8	264.6	261.3	259.1	256.5	254.9	255.9
167.5°	278.8	275.8	273.3	271.8	268.8	265.2	263.3	261.7	260.2	259.3	259.8
170°	275.8	273.6	272.0	271.0	268.8	266.2	264.6	263.4	262.4	261.8	262.4
172.5°	272.8	271.1	270.3	270.1	268.4	266.2	265.4	264.8	263.6	263.2	264.1
175°	268.8	268.2	268.2	268.8	267.8	266.2	266.2	266.2	265.6	265.0	266.2
177.5°	267.1	266.6	266.6	267.5	267.1	266.3	266.3	266.6	266.3	266.3	267.1
180°	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6



TEST NUMBER: P333528-830

CATALOG NUMBER: S125RDIP-S610D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2
2.5°	876.5	879.1	882.8	887.1	890.5	894.3	896.3	896.3	898.0	901.7	906.5
5°	879.0	888.3	897.3	908.7	917.7	928.0	935.9	943.5	950.3	958.8	967.8
7.5°	878.3	893.7	909.8	927.9	947.8	963.7	979.9	992.7	1005.2	1021.7	1034.7
10°	875.4	895.5	917.3	940.2	965.3	987.1	1006.8	1024.7	1041.9	1059.8	1075.9
12.5°	870.2	895.8	922.5	950.0	981.7	1006.6	1032.0	1051.1	1071.1	1090.7	1110.6
15°	862.5	892.6	924.8	963.2	1001.8	1029.7	1054.8	1079.5	1098.2	1120.3	1139.3
17.5°	846.6	885.3	925.9	967.7	1004.8	1037.4	1063.6	1087.1	1106.9	1131.3	1157.2
20°	837.1	879.0	921.2	966.0	1001.5	1034.7	1060.2	1084.5	1109.2	1141.1	1172.6
22.5°	824.0	868.6	913.5	956.0	993.4	1025.6	1051.9	1081.7	1114.1	1150.3	1188.4
25°	803.1	849.3	893.7	934.2	970.6	1003.6	1039.4	1079.5	1118.9	1166.5	1221.3
27.5°	776.7	821.2	860.8	903.5	939.9	981.8	1026.4	1069.9	1126.7	1192.2	1260.7
30°	756.9	799.2	836.8	877.2	918.4	964.6	1014.7	1065.9	1133.6	1210.5	1291.8
32.5°	734.0	772.2	809.5	848.6	896.1	946.8	1000.1	1062.7	1143.6	1231.1	1315.3
35°	694.3	728.6	764.8	808.1	858.6	913.7	981.8	1058.0	1155.7	1249.9	1325.5
37.5°	652.6	679.7	716.0	761.7	816.7	880.5	957.7	1050.4	1150.8	1235.3	1267.4
40°	620.5	645.9	684.2	732.2	786.6	856.5	943.1	1038.3	1139.3	1198.0	1195.5
42.5°	588.7	614.4	651.3	699.6	756.3	834.4	923.6	1022.6	1107.8	1130.1	1083.5
45°	539.9	563.9	600.1	648.8	709.6	791.6	885.4	980.3	1034.7	998.6	906.3
47.5°	490.2	513.5	547.1	594.7	661.2	747.1	835.8	913.6	921.2	843.6	732.7
50°	457.6	479.4	511.3	562.1	626.6	710.4	796.0	857.1	838.2	743.3	629.1
52.5°	425.7	446.8	476.6	524.6	590.5	672.6	748.9	797.0	753.1	652.2	549.5
55°	378.8	398.9	429.0	473.0	532.7	607.9	675.0	692.5	628.0	526.3	443.3
57.5°	334.2	348.8	378.6	417.5	475.2	541.5	589.5	586.4	515.2	423.7	364.1
60°	304.7	317.9	346.2	382.0	436.8	496.2	529.9	515.6	443.7	368.1	310.8
62.5°	277.2	289.5	313.3	346.2	393.3	445.0	469.5	449.7	381.7	315.4	269.8
65°	235.6	244.6	263.5	294.0	330.8	366.6	388.5	359.5	299.4	249.2	214.8
67.5°	196.7	204.4	221.3	243.2	268.6	293.3	302.2	274.9	228.2	194.4	170.2
70°	171.5	178.7	190.1	210.6	227.3	244.9	249.2	224.9	185.9	160.0	145.0
72.5°	147.4	154.0	164.1	178.4	190.1	200.2	202.3	179.6	149.8	132.0	120.4
75°	112.4	118.2	124.6	130.0	137.5	139.3	138.6	121.0	104.9	93.1	86.6
77.5°	82.7	85.0	89.0	91.0	91.4	91.3	87.7	76.5	68.2	63.3	60.7
80°	63.7	65.5	66.6	67.3	67.7	64.1	60.1	53.3	50.5	47.6	44.4
82.5°	46.3	47.5	48.5	48.7	46.8	43.7	40.1	36.8	34.7	33.3	32.0
85°	25.1	25.4	25.1	23.3	20.7	19.7	18.9	18.3	17.9	17.5	17.5
87.5°	9.0	8.5	7.3	7.7	7.9	7.7	8.0	7.8	7.7	7.8	7.9
90°	1.0	2.2	3.2	4.3	5.4	5.9	7.0	7.5	8.6	9.1	9.7
92.5°	7.9	12.4	19.1	28.4	44.1	73.4	122.7	176.2	173.3	140.3	95.3
95°	18.3	22.6	28.5	40.3	64.6	122.1	240.3	388.7	476.4	466.2	386.5
97.5°	30.1	33.1	39.0	49.7	67.1	105.2	191.8	347.1	508.7	589.8	575.7
100°	38.7	40.9	46.8	57.0	73.1	104.3	174.2	309.7	485.5	619.9	661.3
102.5°	47.3	49.0	55.4	64.8	80.4	108.2	166.9	281.3	444.6	601.8	690.1
105°	60.8	63.4	68.8	77.4	92.5	116.1	164.0	253.7	389.8	544.1	673.2
107.5°	75.6	78.1	82.6	91.5	105.1	128.0	168.9	242.1	352.0	485.2	612.5
110°	85.5	87.7	92.5	100.6	114.5	136.6	173.6	238.7	334.4	451.7	567.8





TEST NUMBER: P333528-830

CATALOG NUMBER: S125RDIP-S610D590U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	95.4	97.1	102.0	110.0	123.6	144.8	179.6	238.7	324.1	426.7	532.5
115°	109.7	111.3	116.1	124.2	137.6	157.5	188.7	240.3	312.9	399.4	488.1
117.5°	123.1	124.9	129.7	138.8	151.8	170.7	199.1	243.8	307.5	383.2	459.6
120°	131.8	133.8	138.7	147.9	161.3	180.1	205.9	247.3	304.8	374.2	444.1
122.5°	140.3	142.0	146.8	156.9	170.3	189.2	213.7	250.3	302.7	366.5	432.5
125°	151.7	154.3	159.1	169.4	183.3	201.0	224.2	255.4	300.0	355.9	415.6
127.5°	161.1	164.6	170.7	181.5	195.5	212.5	233.8	261.1	298.7	346.3	398.4
130°	166.6	171.0	178.0	189.3	203.2	219.9	240.3	264.6	297.8	339.8	387.7
132.5°	171.4	176.5	184.5	196.1	210.1	226.8	245.9	268.4	297.8	334.6	376.9
135°	178.5	184.9	193.6	204.8	219.3	236.0	253.7	273.6	297.8	328.5	362.9
137.5°	186.8	192.8	201.4	212.4	227.4	242.6	259.6	278.5	298.5	323.0	351.1
140°	191.9	198.4	207.0	217.3	231.8	247.3	263.4	280.7	299.0	320.5	344.6
142.5°	197.6	203.6	212.2	222.0	235.6	250.3	265.6	281.9	299.4	318.3	339.0
145°	206.4	211.8	219.3	229.0	241.4	255.4	268.8	283.3	299.0	315.1	331.8
147.5°	215.5	220.1	227.1	235.4	246.4	258.6	270.8	283.9	297.6	311.7	324.9
150°	221.5	225.3	232.2	239.8	248.9	260.8	272.0	283.9	296.2	309.2	320.9
152.5°	227.1	230.5	236.6	243.6	251.9	262.9	272.9	283.4	294.5	306.1	316.7
155°	234.4	237.6	243.0	248.4	255.9	265.0	273.6	282.3	291.4	301.0	310.2
157.5°	241.4	244.0	248.6	253.4	259.0	266.9	274.2	280.9	288.1	296.3	303.8
160°	245.7	247.9	251.7	255.9	260.8	267.8	274.2	279.6	286.1	292.5	299.4
162.5°	249.6	251.8	255.1	258.5	262.5	268.6	273.8	278.3	283.4	289.1	294.7
165°	254.9	256.5	259.1	261.3	264.6	268.8	273.1	276.4	279.6	283.9	288.1
167.5°	259.3	260.2	261.7	263.3	265.2	268.8	271.8	273.3	275.8	278.8	281.9
170°	261.8	262.4	263.4	264.6	266.2	268.8	271.0	272.0	273.6	275.8	278.5
172.5°	263.2	263.6	264.8	265.4	266.2	268.4	270.1	270.3	271.1	272.8	274.7
175°	265.0	265.6	266.2	266.2	266.2	267.8	268.8	268.2	268.2	268.8	270.4
177.5°	266.3	266.3	266.6	266.3	266.3	267.1	267.5	266.6	266.6	267.1	267.5
180°	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	872.2	872.2	872.2	872.2	872.2	872.2	872.2
2.5°	910.3	910.3	915.2	914.8	918.0	916.9	917.5
5°	978.5	984.6	990.0	993.5	998.9	1000.4	999.7
7.5°	1049.3	1062.8	1069.4	1078.5	1080.1	1084.8	1084.3
10°	1093.1	1106.4	1116.3	1124.3	1128.2	1133.2	1133.6
12.5°	1127.5	1138.7	1147.6	1154.9	1159.7	1161.3	1162.2
15°	1154.3	1166.9	1177.2	1187.6	1193.7	1198.3	1200.9
17.5°	1181.4	1200.7	1219.1	1233.2	1241.6	1248.8	1248.7
20°	1202.3	1224.6	1247.5	1263.6	1280.0	1287.1	1288.3
22.5°	1224.6	1258.6	1288.1	1313.1	1334.7	1342.2	1344.9
25°	1271.0	1315.4	1360.9	1396.0	1421.1	1435.8	1437.9
27.5°	1327.1	1387.2	1435.0	1467.4	1488.3	1499.1	1501.5
30°	1366.7	1422.1	1465.1	1489.5	1499.1	1500.5	1495.2
32.5°	1384.4	1425.9	1443.0	1441.6	1422.7	1410.0	1405.2
35°	1362.7	1354.2	1312.2	1262.1	1223.8	1199.5	1193.0
37.5°	1240.1	1166.0	1088.9	1013.2	972.9	952.4	917.2
40°	1119.3	1013.6	933.4	869.7	824.3	787.7	779.1
42.5°	982.9	873.8	793.6	739.0	702.8	677.7	666.8
45°	789.9	696.1	629.8	587.9	560.0	541.7	533.5
47.5°	631.7	559.1	510.9	479.8	458.5	442.7	438.3
50°	545.0	486.9	446.1	420.0	403.9	391.7	386.7
52.5°	473.3	426.5	395.1	373.6	358.4	350.7	346.6
55°	390.6	350.2	327.6	310.4	301.8	295.8	292.8
57.5°	319.4	290.2	273.7	261.8	253.9	250.1	248.6
60°	279.7	256.7	241.7	232.3	227.0	222.0	220.6
62.5°	244.4	226.4	214.7	206.6	201.2	199.1	198.2
65°	196.9	185.1	176.5	171.5	167.2	166.5	166.2
67.5°	156.6	149.6	145.1	139.9	138.4	135.8	135.3
70°	133.9	129.2	123.9	122.1	120.3	117.8	118.2
72.5°	113.6	109.0	105.3	102.9	102.3	101.2	102.1
75°	83.0	81.6	80.2	78.4	77.7	77.7	77.4
77.5°	59.3	58.1	56.5	55.4	55.2	53.7	54.3
80°	43.0	41.2	40.4	40.8	39.8	39.4	39.4
82.5°	31.8	31.1	30.4	30.5	30.3	30.0	30.3
85°	17.5	17.2	17.2	16.9	16.9	16.5	16.5
87.5°	8.4	8.8	8.4	8.1	8.1	8.5	8.8
90°	10.2	10.7	11.8	11.8	11.8	12.3	12.3
92.5°	69.2	52.0	44.1	37.2	35.9	35.2	34.3
95°	304.8	238.7	193.6	155.4	139.2	135.0	126.4
97.5°	518.4	454.0	391.2	358.0	327.8	312.3	305.4
100°	635.0	579.6	523.7	486.5	447.9	428.0	419.3
102.5°	706.3	679.8	642.0	602.3	574.8	553.2	546.7
105°	746.8	770.4	764.5	747.3	729.6	718.9	712.4
107.5°	710.8	771.6	799.6	808.3	808.2	804.6	800.3
110°	670.0	745.7	791.5	815.6	825.9	829.6	829.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	629.5	706.2	760.1	795.4	812.9	822.3	826.1
115°	571.6	645.2	703.8	745.7	771.6	786.6	793.6
117.5°	531.4	594.8	648.7	690.6	717.3	732.2	736.5
120°	508.6	567.8	615.1	654.9	680.7	695.2	699.5
122.5°	492.3	545.0	589.3	624.7	648.4	662.9	666.8
125°	470.4	517.3	555.9	586.1	608.1	619.9	625.3
127.5°	449.6	493.2	529.5	556.8	576.3	587.4	589.8
130°	435.0	476.9	511.8	538.8	556.5	567.2	570.4
132.5°	421.2	459.3	492.9	519.8	537.5	547.4	551.1
135°	400.0	434.4	465.1	488.7	506.4	516.1	519.3
137.5°	381.1	409.7	435.7	456.9	473.1	481.9	485.5
140°	369.9	394.6	417.3	437.2	451.1	459.1	461.8
142.5°	360.4	381.7	401.3	418.2	430.0	437.6	439.9
145°	348.4	365.0	379.6	392.5	401.6	407.6	409.7
147.5°	338.4	351.2	362.1	372.4	379.7	383.1	384.1
150°	332.8	343.0	352.7	360.8	367.2	369.4	369.9
152.5°	327.3	336.6	344.1	350.9	356.0	358.2	358.7
155°	318.9	326.3	332.2	337.6	341.4	343.0	343.6
157.5°	310.9	316.7	321.3	325.5	328.6	330.1	330.0
160°	304.8	310.2	314.0	317.7	320.5	321.5	320.9
162.5°	299.7	304.2	307.6	310.5	312.7	312.9	312.8
165°	291.9	295.2	297.8	300.0	301.0	301.0	301.0
167.5°	284.5	286.9	288.8	289.9	290.9	290.4	290.3
170°	280.1	281.7	282.8	283.9	284.5	284.5	283.9
172.5°	276.3	277.4	278.1	278.3	279.3	278.4	277.9
175°	270.4	271.5	271.5	271.5	272.0	271.0	270.4
177.5°	268.0	268.0	268.0	267.5	268.0	266.6	266.6
180°	266.6	266.6	266.6	266.6	266.6	266.6	266.6

(END OF REPORT)