

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: P332272-830

Luminaire Tested: **S123RDIP-S560D365U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332272-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S560D365U830-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3338.9 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

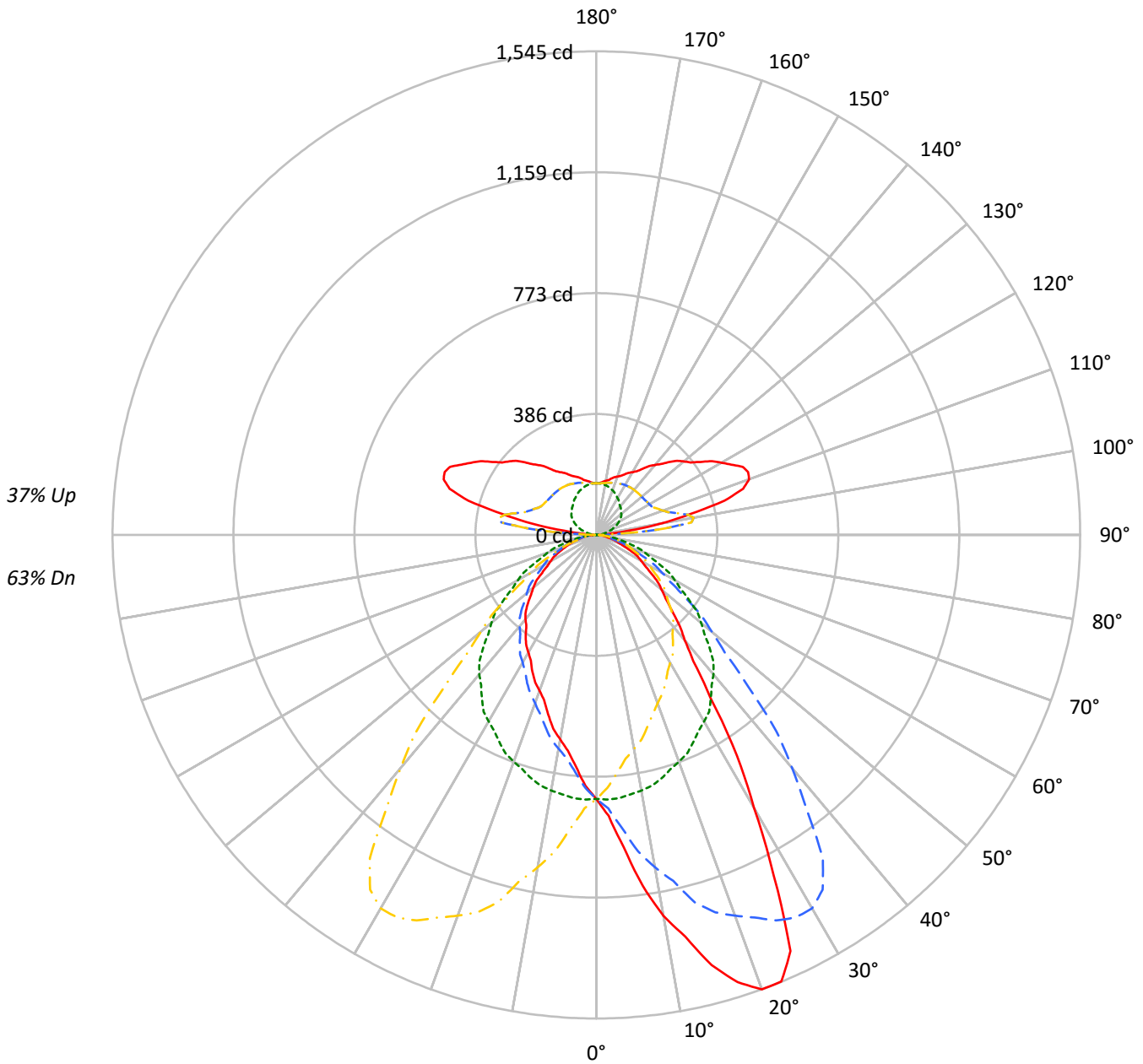
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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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	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63
1	101	97	94	90	95	91	88	85	81	78	76	71	69	67	61	60	59	54
2	93	86	80	75	87	81	76	71	71	68	64	63	60	57	55	53	51	47
3	85	76	69	63	80	72	66	60	64	59	55	56	52	49	49	46	44	41
4	78	68	60	54	73	64	57	52	57	52	47	51	46	43	44	41	39	35
5	72	61	53	47	68	58	51	45	51	46	41	46	41	38	40	37	34	31
6	67	55	47	41	63	52	45	40	47	41	37	42	37	33	37	33	30	28
7	62	50	42	37	58	47	40	35	43	37	32	38	33	30	34	30	27	25
8	58	46	38	33	54	43	36	31	39	33	29	35	30	27	31	27	25	22
9	54	42	34	29	51	40	33	28	36	30	26	32	28	24	29	25	22	20
10	50	38	31	27	47	37	30	26	33	28	24	30	25	22	27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9077	9077	9077	9077
5°	10821	9116	8028	9116
10°	13511	9063	7252	9063
15°	15858	8971	6614	8971
20°	17699	8833	6071	8833
25°	17416	8687	5738	8687
30°	12519	8552	5393	8552
35°	8359	8377	5171	8377
40°	6159	8168	4942	8168
45°	5165	7798	4714	7798
50°	4558	7316	4401	7316
55°	3997	6762	3969	6762
60°	3559	6232	3638	6232
65°	3125	5662	3385	5662
70°	2452	5158	3091	5158
75°	2163	4504	2824	4504
80°	1878	3825	2777	3825
85°	1519	3075	2939	3075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	2.5
10°-20°	259.1	7.8
20°-30°	407.0	12.2
30°-40°	424.7	12.7
40°-50°	363.4	10.9
50°-60°	277.0	8.3
60°-70°	177.6	5.3
70°-80°	85.4	2.6
80°-90°	23.9	0.7
90°-100°	91.6	2.7
100°-110°	259.3	7.8
110°-120°	255.1	7.6
120°-130°	203.5	6.1
130°-140°	160.4	4.8
140°-150°	119.7	3.6
150°-160°	83.4	2.5
160°-170°	49.0	1.5
170°-180°	16.0	0.5
0°-30°	749.1	22.4
0°-40°	1173.7	35.2
0°-60°	1814.2	54.3
0°-90°	2101.0	62.9
90°-120°	605.9	18.1
90°-150°	1089.5	32.6
90°-180°	1238.0	37.1
0°-180°	3338.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	843	843	843	843	843	
5°	1002	844	743	844	1002	103
15°	1423	805	594	805	1423	404
25°	1466	731	483	731	1466	630
35°	636	638	394	638	636	417
45°	339	512	310	512	339	267
55°	213	360	212	360	213	193
65°	123	222	133	222	123	121
75°	52	108	68	108	52	56
85°	12	25	24	25	12	14
90°	10	1	10	1	10	5
95°	39	11	39	11	39	70
105°	424	39	424	39	424	418
115°	515	68	515	68	515	501
125°	406	95	406	95	406	368
135°	329	111	329	111	329	256
145°	258	127	258	127	258	164
155°	214	144	214	144	214	100
165°	186	158	186	158	186	53
175°	168	164	168	164	168	16
180°	165	165	165	165	165	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	898.1	899.4	895.6	895.0	890.7	889.6	889.6	883.4	879.7	874.8	871.9
5°	1001.5	1007.2	1004.4	997.9	987.0	984.5	977.6	966.8	954.5	939.3	932.2
7.5°	1130.4	1138.3	1135.2	1125.2	1113.9	1104.7	1085.3	1067.3	1042.2	1020.1	1001.2
10°	1236.1	1227.8	1221.3	1211.5	1201.1	1184.1	1163.9	1136.1	1104.0	1078.7	1050.6
12.5°	1315.2	1313.9	1305.6	1295.6	1280.8	1264.7	1239.8	1206.0	1168.7	1132.1	1099.9
15°	1423.1	1425.3	1419.8	1409.4	1388.5	1359.9	1322.4	1308.3	1254.9	1215.1	1175.4
17.5°	1497.8	1497.3	1496.6	1482.1	1460.8	1440.4	1405.6	1368.6	1320.2	1264.2	1210.8
20°	1545.1	1541.5	1542.3	1526.0	1510.1	1486.7	1452.7	1398.9	1359.2	1294.6	1239.3
22.5°	1544.0	1543.2	1546.0	1540.4	1528.9	1510.9	1484.2	1438.8	1388.1	1322.9	1260.7
25°	1466.4	1463.6	1480.5	1485.2	1503.6	1506.8	1498.9	1474.0	1426.0	1358.9	1282.0
27.5°	1227.3	1225.7	1257.2	1296.6	1346.6	1385.4	1423.0	1441.1	1426.0	1377.9	1300.9
30°	1007.2	1041.1	1057.1	1114.1	1177.6	1253.4	1319.8	1383.0	1398.5	1377.6	1314.5
32.5°	836.2	865.8	879.1	928.1	987.3	1076.1	1175.7	1265.2	1328.4	1344.4	1306.4
35°	636.1	636.5	666.8	688.4	743.3	834.6	931.4	1051.2	1170.4	1260.7	1270.1
37.5°	507.6	509.3	527.7	549.3	590.5	638.8	724.0	823.6	961.2	1099.8	1181.0
40°	438.3	441.5	455.2	476.5	506.1	542.6	609.1	702.9	817.7	971.9	1097.9
42.5°	393.8	399.1	406.1	422.5	440.8	475.0	528.8	601.2	705.6	851.4	996.7
45°	339.3	342.2	347.6	355.2	371.8	395.7	431.8	480.5	567.1	684.5	830.0
47.5°	299.4	297.8	303.5	309.7	320.7	337.0	361.2	401.0	462.8	556.9	680.3
50°	272.2	271.8	275.8	280.5	291.0	302.9	322.7	352.7	401.8	479.8	592.8
52.5°	246.8	248.2	251.0	256.8	264.4	274.0	291.8	313.4	355.6	422.9	517.1
55°	213.0	214.1	218.0	221.3	226.7	236.5	247.7	265.7	294.5	341.5	419.1
57.5°	184.4	183.9	187.8	188.5	194.6	202.6	211.2	225.3	246.2	281.1	333.4
60°	165.3	164.3	167.5	170.0	173.2	179.7	187.0	200.8	217.4	243.0	287.8
62.5°	148.0	147.5	149.9	152.4	155.0	161.0	167.1	177.6	190.8	212.4	247.9
65°	122.7	123.9	124.9	126.0	127.4	131.0	136.9	144.0	153.1	168.2	193.9
67.5°	96.4	97.6	97.9	100.1	103.2	105.5	109.1	115.5	121.8	134.5	149.1
70°	77.9	77.6	77.9	79.1	83.0	87.0	91.7	96.4	100.4	109.4	121.7
72.5°	67.0	66.4	67.3	67.5	69.5	70.5	73.5	77.9	83.0	89.2	98.0
75°	52.0	52.0	52.0	52.0	53.4	54.2	55.2	56.4	58.2	61.0	67.5
77.5°	38.5	38.5	39.0	39.3	39.7	40.1	40.7	41.8	42.4	44.0	46.8
80°	30.3	30.7	30.3	30.7	30.7	31.4	31.8	32.9	33.2	35.1	36.1
82.5°	22.8	22.6	22.8	23.2	23.2	23.9	23.9	24.8	24.9	25.7	26.9
85°	12.3	11.6	12.3	11.9	12.6	11.9	12.3	13.0	13.0	13.4	14.8
87.5°	4.8	5.5	4.8	5.0	5.1	5.3	5.2	5.1	5.7	5.5	5.5
90°	9.6	10.0	9.6	9.3	9.6	9.0	8.7	8.3	8.0	8.3	7.4
92.5°	16.0	16.7	16.3	17.3	17.9	19.6	22.2	28.1	38.6	51.2	56.4
95°	38.6	40.0	42.3	45.3	51.7	63.6	81.2	119.9	160.2	197.6	175.9
97.5°	105.2	108.0	117.1	132.1	156.7	196.4	239.4	298.9	327.4	306.1	224.1
100°	208.9	208.5	221.5	245.8	279.5	326.8	365.7	392.7	381.1	315.5	213.2
102.5°	306.3	314.1	324.9	344.1	370.3	400.3	423.0	423.9	383.7	298.1	197.2
105°	423.7	425.4	436.0	448.7	464.0	472.6	466.3	433.0	363.4	267.8	177.6
107.5°	491.3	494.3	497.9	502.2	501.9	490.0	460.8	406.7	327.8	241.0	165.0
110°	519.0	519.6	520.3	517.6	508.3	484.9	443.0	381.7	305.5	225.8	160.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	524.5	524.4	521.9	513.6	496.5	466.6	419.5	356.9	286.0	215.7	157.5
115°	515.3	513.6	506.9	492.3	467.3	431.0	382.0	324.0	262.5	204.8	156.6
117.5°	485.8	483.5	474.0	457.2	431.1	394.3	350.3	300.3	248.3	198.4	157.1
120°	461.3	459.3	451.3	432.6	406.3	372.7	332.7	287.8	240.8	195.5	158.3
122.5°	438.4	435.8	427.1	410.3	386.9	355.6	318.6	278.0	234.7	193.7	160.0
125°	406.3	404.1	395.7	381.1	359.8	333.1	301.1	264.8	226.9	191.1	162.9
127.5°	379.9	377.9	370.3	357.8	338.8	314.5	285.7	253.4	219.9	190.0	166.1
130°	365.0	362.4	355.4	343.4	325.7	303.1	276.2	246.1	216.1	189.2	168.2
132.5°	350.4	348.6	342.3	330.4	313.8	292.2	267.0	239.5	212.7	188.9	169.8
135°	329.4	327.1	321.1	311.1	294.7	275.8	254.1	230.5	208.2	188.5	172.2
137.5°	307.3	305.7	300.7	290.5	276.8	260.3	241.7	222.3	204.2	187.8	173.8
140°	291.8	292.1	286.8	277.5	264.8	250.4	234.5	217.5	201.8	187.6	174.8
142.5°	277.4	277.7	273.0	264.7	253.8	241.4	227.5	213.0	199.7	187.0	175.7
145°	257.5	256.8	254.1	247.1	238.8	229.1	218.5	207.5	196.8	186.2	176.2
147.5°	241.1	240.8	238.3	233.6	227.2	220.4	211.8	203.0	194.1	184.9	176.2
150°	231.5	231.5	229.5	225.8	220.8	214.5	207.5	199.8	192.2	183.9	176.2
152.5°	223.5	223.5	222.3	218.9	215.0	209.7	203.5	196.9	190.0	182.6	175.4
155°	213.5	213.2	212.5	209.8	206.8	202.8	197.8	192.6	186.8	180.2	174.6
157.5°	204.3	204.4	203.9	201.9	199.3	196.1	192.3	187.8	183.2	178.1	173.4
160°	198.5	198.9	198.9	196.8	194.5	192.2	188.9	185.2	180.9	176.5	172.9
162.5°	193.2	193.5	193.5	191.8	190.3	188.2	185.1	182.0	178.4	174.9	171.8
165°	186.2	186.2	186.5	185.2	183.9	182.2	179.8	177.9	175.2	172.6	170.2
167.5°	179.6	179.6	179.8	178.9	178.3	177.1	175.8	174.3	172.1	170.1	168.6
170°	175.5	175.5	175.9	175.2	174.8	174.2	172.9	171.8	170.2	168.5	167.6
172.5°	171.8	172.1	172.7	172.0	171.9	171.5	170.5	169.8	168.3	167.2	166.7
175°	167.6	167.9	168.2	167.9	167.9	167.9	167.2	166.8	166.2	165.5	165.5
177.5°	165.0	165.0	165.6	165.3	165.6	165.6	165.3	165.0	164.9	164.6	164.9
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	870.7	869.9	865.8	861.2	855.2	851.1	847.9	846.2	841.0	834.6	830.3
5°	924.5	913.7	902.2	888.1	875.1	861.8	853.5	843.7	831.8	818.4	809.0
7.5°	982.1	960.9	938.0	914.5	891.1	870.2	851.7	835.8	816.9	797.8	784.3
10°	1026.3	995.3	963.2	930.3	900.3	872.2	850.6	829.2	806.5	784.5	767.9
12.5°	1066.5	1025.7	988.6	948.2	909.9	876.3	845.1	820.0	792.7	769.2	750.3
15°	1117.3	1075.4	1030.7	969.3	918.4	875.8	837.9	805.0	771.8	743.0	724.5
17.5°	1164.8	1101.8	1041.7	990.4	924.4	871.1	824.8	785.5	749.1	718.5	695.8
20°	1184.5	1123.5	1058.1	992.8	927.8	868.3	814.5	771.1	733.2	698.5	677.6
22.5°	1196.3	1127.2	1058.4	988.2	919.2	857.2	804.1	756.4	715.3	682.4	656.6
25°	1210.1	1127.8	1052.0	982.7	912.3	845.1	781.9	731.4	687.0	652.0	624.5
27.5°	1219.2	1122.4	1032.7	955.7	884.3	817.5	759.6	706.0	660.9	623.9	594.5
30°	1221.0	1118.0	1018.0	934.6	862.0	800.7	739.3	688.1	640.5	601.1	573.6
32.5°	1223.2	1107.4	998.2	909.6	835.3	774.5	718.9	669.9	621.0	582.3	554.3
35°	1213.7	1101.5	967.9	866.1	791.7	732.8	682.7	637.5	589.6	552.0	523.5
37.5°	1172.7	1078.0	936.5	817.1	739.3	684.9	643.9	604.6	560.6	520.1	493.2
40°	1131.4	1054.9	912.3	787.4	706.2	650.2	613.3	581.3	538.7	500.7	471.8
42.5°	1069.9	1023.4	889.2	756.2	668.5	614.6	583.6	553.5	516.1	477.6	450.4
45°	957.1	963.2	841.9	706.5	616.6	562.4	533.2	512.3	479.1	447.3	419.5
47.5°	815.5	872.9	786.4	653.6	561.8	511.0	485.4	467.1	444.8	413.6	388.2
50°	723.1	805.0	741.9	618.0	527.4	476.9	451.7	436.9	417.4	392.8	368.6
52.5°	637.9	725.9	688.2	578.4	490.2	443.9	419.2	407.1	391.6	368.5	346.7
55°	520.2	609.4	600.7	518.8	434.3	392.8	374.0	360.3	349.8	332.5	315.2
57.5°	420.8	505.3	509.8	452.3	385.0	344.0	327.9	317.5	310.7	297.7	281.6
60°	358.2	435.7	450.9	407.6	349.8	313.7	297.8	289.5	284.1	273.6	261.4
62.5°	306.1	372.2	389.4	358.2	316.0	282.2	269.8	261.8	258.2	249.1	238.3
65°	234.3	289.2	305.8	288.4	266.5	239.3	229.2	222.3	219.1	214.1	206.1
67.5°	176.2	216.2	234.4	222.2	214.2	197.1	190.7	187.0	184.1	180.7	174.0
70°	141.5	171.2	189.9	186.6	180.1	171.2	166.5	163.9	161.0	158.2	152.3
72.5°	113.8	134.1	151.7	153.4	148.1	146.3	142.1	141.1	139.3	135.9	132.7
75°	75.5	89.5	101.8	106.5	108.7	110.5	108.7	108.3	107.9	105.1	103.2
77.5°	49.5	57.0	64.8	72.8	76.2	78.6	79.2	80.5	79.6	78.0	77.2
80°	37.9	39.7	45.1	52.0	57.4	59.6	61.0	61.7	61.4	61.0	59.6
82.5°	27.5	29.0	31.6	36.4	40.9	44.6	45.4	45.2	46.1	46.3	45.1
85°	14.8	15.2	15.9	16.6	19.1	23.1	24.2	24.9	25.6	25.6	23.5
87.5°	5.8	5.4	5.7	5.7	6.4	6.5	8.1	9.3	9.8	8.8	9.0
90°	6.3	5.4	4.3	3.7	3.0	2.0	1.3	0.7	1.3	2.0	3.0
92.5°	42.3	28.0	19.2	14.3	11.5	9.0	6.1	4.1	6.1	9.0	11.5
95°	121.2	71.6	43.3	30.3	21.7	16.0	12.3	11.3	12.3	16.0	21.7
97.5°	133.0	77.1	50.0	36.0	27.4	22.5	19.6	19.3	19.6	22.5	27.4
100°	125.5	76.3	53.0	40.0	32.0	27.3	25.0	24.7	25.0	27.3	32.0
102.5°	119.1	77.4	56.5	44.5	37.3	32.9	30.8	30.3	30.8	32.9	37.3
105°	114.6	80.3	62.3	51.9	45.6	41.7	39.7	38.6	39.7	41.7	45.6
107.5°	114.2	85.8	69.9	60.3	54.4	50.5	48.5	47.6	48.5	50.5	54.4
110°	115.6	90.3	75.3	66.0	60.3	56.6	55.0	53.9	55.0	56.6	60.3



TEST NUMBER: P332272-830

CATALOG NUMBER: S123RDIP-S560D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	118.3	94.8	80.9	71.8	66.2	62.5	60.8	59.9	60.8	62.5	66.2
115°	122.5	102.3	89.6	80.6	74.9	71.6	69.7	68.2	69.7	71.6	74.9
117.5°	128.3	110.2	97.6	89.4	83.0	79.9	78.2	76.7	78.2	79.9	83.0
120°	132.5	115.3	103.2	94.9	88.6	85.3	83.6	82.6	83.6	85.3	88.6
122.5°	136.6	120.6	108.9	100.0	94.0	90.3	88.7	87.7	88.7	90.3	94.0
125°	142.9	128.3	116.6	107.5	101.2	97.6	95.6	94.9	95.6	97.6	101.2
127.5°	148.1	134.9	123.7	114.6	107.6	104.0	101.4	100.5	101.4	104.0	107.6
130°	151.6	138.9	127.9	118.9	111.9	107.9	104.9	104.0	104.9	107.9	111.9
132.5°	154.8	142.3	131.7	122.9	115.9	111.1	107.8	106.6	107.8	111.1	115.9
135°	158.9	147.5	137.2	128.3	121.2	116.2	112.5	111.2	112.5	116.2	121.2
137.5°	161.9	151.2	141.2	132.9	125.9	120.6	117.1	115.6	117.1	120.6	125.9
140°	163.5	153.5	143.9	135.5	128.9	123.6	120.3	118.6	120.3	123.6	128.9
142.5°	165.1	155.4	146.0	138.3	131.6	126.8	123.2	121.8	123.2	126.8	131.6
145°	166.8	157.9	149.2	141.6	135.9	130.9	127.9	126.9	127.9	130.9	135.9
147.5°	168.0	159.9	151.9	145.4	140.0	135.6	132.7	132.1	132.7	135.6	140.0
150°	168.2	161.2	153.5	147.5	142.9	138.6	135.9	135.5	135.9	138.6	142.9
152.5°	168.7	162.0	155.4	149.7	145.5	141.8	139.1	139.0	139.1	141.8	145.5
155°	168.9	163.5	157.9	153.3	149.6	146.2	144.2	144.2	144.2	146.2	149.6
157.5°	169.2	164.4	159.9	156.3	153.2	150.2	148.6	148.4	148.6	150.2	153.2
160°	169.2	165.2	161.2	157.9	155.5	152.9	151.6	151.6	151.6	152.9	155.5
162.5°	168.9	165.5	162.0	159.2	157.1	155.0	153.9	153.9	153.9	155.0	157.1
165°	168.2	165.9	163.2	160.9	159.6	157.9	157.2	157.5	157.2	157.9	159.6
167.5°	167.7	165.8	163.9	162.4	161.5	160.2	159.9	160.2	159.9	160.2	161.5
170°	166.8	165.5	163.9	163.2	162.5	161.6	161.2	161.8	161.2	161.6	162.5
172.5°	166.6	165.5	164.1	163.7	163.3	162.6	162.5	163.0	162.5	162.6	163.3
175°	165.9	165.2	164.6	164.2	164.2	163.5	163.9	164.2	163.9	163.5	164.2
177.5°	165.3	164.9	164.6	164.6	164.6	164.3	164.6	164.9	164.6	164.3	164.6
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P332272-830

CATALOG NUMBER: S123RDIP-S560D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	828.9	825.1	822.6	816.7	813.0	809.0	804.9	807.5	807.2	806.9	806.9
5°	801.1	792.8	785.2	775.4	769.3	761.8	755.9	755.3	756.7	751.6	748.8
7.5°	773.5	762.1	751.4	740.6	729.2	720.1	714.4	711.8	708.1	705.0	701.7
10°	754.1	740.8	730.3	717.0	704.7	693.9	687.0	682.3	679.8	677.2	672.6
12.5°	734.2	721.1	707.8	692.7	681.0	668.5	663.4	658.1	653.2	650.4	643.9
15°	705.0	688.1	674.0	658.1	645.2	632.8	625.7	615.2	613.7	610.1	603.6
17.5°	675.8	657.4	638.0	626.2	611.5	598.8	587.8	584.3	573.9	570.0	564.4
20°	652.7	635.7	620.9	605.4	584.1	572.2	563.5	558.8	550.5	545.4	541.9
22.5°	632.8	615.5	598.4	580.3	562.7	549.4	543.0	535.7	531.2	524.1	520.2
25°	604.4	585.6	565.0	545.4	532.8	522.7	512.6	506.1	499.6	496.3	489.2
27.5°	571.3	551.7	532.4	517.6	502.1	492.1	483.0	477.2	469.4	463.9	460.0
30°	553.1	530.0	513.4	500.0	480.1	470.8	463.9	456.7	450.9	445.2	441.1
32.5°	532.0	510.9	495.1	478.6	463.4	453.2	444.2	437.9	433.0	427.5	423.6
35°	498.9	481.3	465.0	448.4	437.2	426.7	416.2	410.9	406.1	401.1	397.5
37.5°	469.0	452.5	437.1	421.3	407.5	398.9	390.5	386.3	380.0	376.6	373.0
40°	450.5	434.3	417.7	402.6	388.0	381.6	374.0	367.9	362.1	359.6	355.6
42.5°	430.4	414.1	400.1	383.7	371.9	363.1	356.1	349.4	345.1	341.4	339.1
45°	400.4	385.9	372.2	356.0	344.8	337.1	329.2	323.1	319.1	316.6	312.6
47.5°	371.3	356.8	342.9	328.8	317.9	309.2	301.3	297.0	291.8	288.7	286.0
50°	350.2	337.1	322.3	309.3	298.6	289.9	283.4	278.0	273.2	269.3	267.5
52.5°	330.8	317.0	304.2	292.1	280.7	270.8	264.9	259.2	255.7	251.1	249.0
55°	298.9	285.6	274.8	262.8	251.7	243.4	236.1	231.0	227.4	222.3	219.5
57.5°	268.9	256.9	244.0	233.8	222.2	215.2	209.2	202.3	197.9	194.0	191.1
60°	248.7	235.0	223.9	214.1	204.0	194.9	189.5	184.1	179.5	175.4	173.0
62.5°	227.6	215.7	205.1	194.4	185.2	177.3	171.1	166.5	162.4	159.9	157.3
65°	195.3	186.0	175.1	166.5	157.8	152.0	146.9	143.0	140.1	138.3	136.1
67.5°	165.6	156.5	147.0	138.5	132.7	128.3	125.0	121.6	120.2	117.8	116.4
70°	146.2	136.9	128.6	122.1	116.2	113.0	110.8	108.3	106.9	104.0	102.5
72.5°	125.2	118.4	112.4	107.0	102.4	99.4	96.7	93.6	91.2	88.1	86.6
75°	98.6	92.5	87.8	84.1	81.2	77.3	73.3	70.0	69.0	67.9	67.5
77.5°	73.0	69.1	65.7	62.7	59.1	56.2	55.3	54.6	54.4	53.8	53.8
80°	57.4	53.8	51.3	47.7	45.5	45.5	45.5	44.8	45.1	45.1	45.1
82.5°	42.7	39.3	38.0	36.7	36.3	36.6	36.6	36.7	36.5	37.0	36.8
85°	22.1	22.3	23.1	22.7	23.1	23.1	23.8	23.5	23.8	23.1	23.8
87.5°	8.9	9.8	10.3	10.8	11.3	11.2	11.4	11.5	11.9	11.9	12.1
90°	3.7	4.3	5.4	6.3	7.4	8.3	8.0	8.3	8.7	9.0	9.6
92.5°	14.3	19.2	28.0	42.3	56.4	51.2	38.6	28.1	22.2	19.6	17.9
95°	30.3	43.3	71.6	121.2	175.9	197.6	160.2	119.9	81.2	63.6	51.7
97.5°	36.0	50.0	77.1	133.0	224.1	306.1	327.4	298.9	239.4	196.4	156.7
100°	40.0	53.0	76.3	125.5	213.2	315.5	381.1	392.7	365.7	326.8	279.5
102.5°	44.5	56.5	77.4	119.1	197.2	298.1	383.7	423.9	423.0	400.3	370.3
105°	51.9	62.3	80.3	114.6	177.6	267.8	363.4	433.0	466.3	472.6	464.0
107.5°	60.3	69.9	85.8	114.2	165.0	241.0	327.8	406.7	460.8	490.0	501.9
110°	66.0	75.3	90.3	115.6	160.2	225.8	305.5	381.7	443.0	484.9	508.3



TEST NUMBER: P332272-830

CATALOG NUMBER: S123RDIP-S560D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	71.8	80.9	94.8	118.3	157.5	215.7	286.0	356.9	419.5	466.6	496.5
115°	80.6	89.6	102.3	122.5	156.6	204.8	262.5	324.0	382.0	431.0	467.3
117.5°	89.4	97.6	110.2	128.3	157.1	198.4	248.3	300.3	350.3	394.3	431.1
120°	94.9	103.2	115.3	132.5	158.3	195.5	240.8	287.8	332.7	372.7	406.3
122.5°	100.0	108.9	120.6	136.6	160.0	193.7	234.7	278.0	318.6	355.6	386.9
125°	107.5	116.6	128.3	142.9	162.9	191.1	226.9	264.8	301.1	333.1	359.8
127.5°	114.6	123.7	134.9	148.1	166.1	190.0	219.9	253.4	285.7	314.5	338.8
130°	118.9	127.9	138.9	151.6	168.2	189.2	216.1	246.1	276.2	303.1	325.7
132.5°	122.9	131.7	142.3	154.8	169.8	188.9	212.7	239.5	267.0	292.2	313.8
135°	128.3	137.2	147.5	158.9	172.2	188.5	208.2	230.5	254.1	275.8	294.7
137.5°	132.9	141.2	151.2	161.9	173.8	187.8	204.2	222.3	241.7	260.3	276.8
140°	135.5	143.9	153.5	163.5	174.8	187.6	201.8	217.5	234.5	250.4	264.8
142.5°	138.3	146.0	155.4	165.1	175.7	187.0	199.7	213.0	227.5	241.4	253.8
145°	141.6	149.2	157.9	166.8	176.2	186.2	196.8	207.5	218.5	229.1	238.8
147.5°	145.4	151.9	159.9	168.0	176.2	184.9	194.1	203.0	211.8	220.4	227.2
150°	147.5	153.5	161.2	168.2	176.2	183.9	192.2	199.8	207.5	214.5	220.8
152.5°	149.7	155.4	162.0	168.7	175.4	182.6	190.0	196.9	203.5	209.7	215.0
155°	153.3	157.9	163.5	168.9	174.6	180.2	186.8	192.6	197.8	202.8	206.8
157.5°	156.3	159.9	164.4	169.2	173.4	178.1	183.2	187.8	192.3	196.1	199.3
160°	157.9	161.2	165.2	169.2	172.9	176.5	180.9	185.2	188.9	192.2	194.5
162.5°	159.2	162.0	165.5	168.9	171.8	174.9	178.4	182.0	185.1	188.2	190.3
165°	160.9	163.2	165.9	168.2	170.2	172.6	175.2	177.9	179.8	182.2	183.9
167.5°	162.4	163.9	165.8	167.7	168.6	170.1	172.1	174.3	175.8	177.1	178.3
170°	163.2	163.9	165.5	166.8	167.6	168.5	170.2	171.8	172.9	174.2	174.8
172.5°	163.7	164.1	165.5	166.6	166.7	167.2	168.3	169.8	170.5	171.5	171.9
175°	164.2	164.6	165.2	165.9	165.5	165.5	166.2	166.8	167.2	167.9	167.9
177.5°	164.6	164.6	164.9	165.3	164.9	164.6	164.9	165.0	165.3	165.6	165.6
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P332272-830

CATALOG NUMBER: S123RDIP-S560D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	803.4	803.1	803.4	802.3	803.4	803.1	803.4	806.9	806.9	807.2	807.5
5°	747.6	747.2	746.2	743.0	746.2	747.2	747.6	748.8	751.6	756.7	755.3
7.5°	698.9	698.4	695.2	695.3	695.2	698.4	698.9	701.7	705.0	708.1	711.8
10°	670.1	670.4	666.1	663.5	666.1	670.4	670.1	672.6	677.2	679.8	682.3
12.5°	642.1	640.4	636.9	634.0	636.9	640.4	642.1	643.9	650.4	653.2	658.1
15°	605.0	601.4	592.8	593.5	592.8	601.4	605.0	603.6	610.1	613.7	615.2
17.5°	561.5	558.8	558.7	553.6	558.7	558.8	561.5	564.4	570.0	573.9	584.3
20°	536.1	534.3	535.0	530.0	535.0	534.3	536.1	541.9	545.4	550.5	558.8
22.5°	516.1	514.3	511.3	509.7	511.3	514.3	516.1	520.2	524.1	531.2	535.7
25°	487.0	484.1	481.3	483.1	481.3	484.1	487.0	489.2	496.3	499.6	506.1
27.5°	457.8	455.6	452.8	452.4	452.8	455.6	457.8	460.0	463.9	469.4	477.2
30°	439.3	437.2	435.7	433.9	435.7	437.2	439.3	441.1	445.2	450.9	456.7
32.5°	420.6	420.2	417.5	417.2	417.5	420.2	420.6	423.6	427.5	433.0	437.9
35°	396.1	393.9	393.1	393.5	393.1	393.9	396.1	397.5	401.1	406.1	410.9
37.5°	372.7	369.9	368.5	367.2	368.5	369.9	372.7	373.0	376.6	380.0	386.3
40°	356.0	353.1	352.3	351.7	352.3	353.1	356.0	355.6	359.6	362.1	367.9
42.5°	337.1	336.0	335.6	334.3	335.6	336.0	337.1	339.1	341.4	345.1	349.4
45°	311.5	311.2	309.1	309.7	309.1	311.2	311.5	312.6	316.6	319.1	323.1
47.5°	284.6	283.0	281.4	282.5	281.4	283.0	284.6	286.0	288.7	291.8	297.0
50°	266.1	265.3	262.1	262.8	262.1	265.3	266.1	267.5	269.3	273.2	278.0
52.5°	247.6	244.9	243.6	243.2	243.6	244.9	247.6	249.0	251.1	255.7	259.2
55°	217.0	213.7	212.3	211.5	212.3	213.7	217.0	219.5	222.3	227.4	231.0
57.5°	186.9	186.1	184.9	185.7	184.9	186.1	186.9	191.1	194.0	197.9	202.3
60°	169.3	169.3	169.3	169.0	169.3	169.3	169.3	173.0	175.4	179.5	184.1
62.5°	155.7	154.9	154.6	155.0	154.6	154.9	155.7	157.3	159.9	162.4	166.5
65°	135.0	134.7	133.2	132.9	133.2	134.7	135.0	136.1	138.3	140.1	143.0
67.5°	115.5	114.1	113.8	113.2	113.8	114.1	115.5	116.4	117.8	120.2	121.6
70°	100.8	100.0	97.8	98.2	97.8	100.0	100.8	102.5	104.0	106.9	108.3
72.5°	84.8	84.1	83.7	83.1	83.7	84.1	84.8	86.6	88.1	91.2	93.6
75°	67.1	66.8	66.4	67.9	66.4	66.8	67.1	67.5	67.9	69.0	70.0
77.5°	53.8	53.8	54.0	53.4	54.0	53.8	53.8	53.8	53.8	54.4	54.6
80°	45.1	45.1	44.8	44.8	44.8	45.1	45.1	45.1	45.1	45.1	44.8
82.5°	36.2	36.5	36.7	36.1	36.7	36.5	36.2	36.8	37.0	36.5	36.7
85°	23.8	23.5	24.2	23.8	24.2	23.5	23.8	23.8	23.1	23.8	23.5
87.5°	12.5	12.1	12.1	12.3	12.1	12.1	12.5	12.1	11.9	11.9	11.5
90°	9.3	9.6	10.0	9.6	10.0	9.6	9.3	9.6	9.0	8.7	8.3
92.5°	17.3	16.3	16.7	16.0	16.7	16.3	17.3	17.9	19.6	22.2	28.1
95°	45.3	42.3	40.0	38.6	40.0	42.3	45.3	51.7	63.6	81.2	119.9
97.5°	132.1	117.1	108.0	105.2	108.0	117.1	132.1	156.7	196.4	239.4	298.9
100°	245.8	221.5	208.5	208.9	208.5	221.5	245.8	279.5	326.8	365.7	392.7
102.5°	344.1	324.9	314.1	306.3	314.1	324.9	344.1	370.3	400.3	423.0	423.9
105°	448.7	436.0	425.4	423.7	425.4	436.0	448.7	464.0	472.6	466.3	433.0
107.5°	502.2	497.9	494.3	491.3	494.3	497.9	502.2	501.9	490.0	460.8	406.7
110°	517.6	520.3	519.6	519.0	519.6	520.3	517.6	508.3	484.9	443.0	381.7



TEST NUMBER: P332272-830

CATALOG NUMBER: S123RDIP-S560D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	513.6	521.9	524.4	524.5	524.4	521.9	513.6	496.5	466.6	419.5	356.9
115°	492.3	506.9	513.6	515.3	513.6	506.9	492.3	467.3	431.0	382.0	324.0
117.5°	457.2	474.0	483.5	485.8	483.5	474.0	457.2	431.1	394.3	350.3	300.3
120°	432.6	451.3	459.3	461.3	459.3	451.3	432.6	406.3	372.7	332.7	287.8
122.5°	410.3	427.1	435.8	438.4	435.8	427.1	410.3	386.9	355.6	318.6	278.0
125°	381.1	395.7	404.1	406.3	404.1	395.7	381.1	359.8	333.1	301.1	264.8
127.5°	357.8	370.3	377.9	379.9	377.9	370.3	357.8	338.8	314.5	285.7	253.4
130°	343.4	355.4	362.4	365.0	362.4	355.4	343.4	325.7	303.1	276.2	246.1
132.5°	330.4	342.3	348.6	350.4	348.6	342.3	330.4	313.8	292.2	267.0	239.5
135°	311.1	321.1	327.1	329.4	327.1	321.1	311.1	294.7	275.8	254.1	230.5
137.5°	290.5	300.7	305.7	307.3	305.7	300.7	290.5	276.8	260.3	241.7	222.3
140°	277.5	286.8	292.1	291.8	292.1	286.8	277.5	264.8	250.4	234.5	217.5
142.5°	264.7	273.0	277.7	277.4	277.7	273.0	264.7	253.8	241.4	227.5	213.0
145°	247.1	254.1	256.8	257.5	256.8	254.1	247.1	238.8	229.1	218.5	207.5
147.5°	233.6	238.3	240.8	241.1	240.8	238.3	233.6	227.2	220.4	211.8	203.0
150°	225.8	229.5	231.5	231.5	231.5	229.5	225.8	220.8	214.5	207.5	199.8
152.5°	218.9	222.3	223.5	223.5	223.5	222.3	218.9	215.0	209.7	203.5	196.9
155°	209.8	212.5	213.2	213.5	213.2	212.5	209.8	206.8	202.8	197.8	192.6
157.5°	201.9	203.9	204.4	204.3	204.4	203.9	201.9	199.3	196.1	192.3	187.8
160°	196.8	198.9	198.9	198.5	198.9	198.9	196.8	194.5	192.2	188.9	185.2
162.5°	191.8	193.5	193.5	193.2	193.5	193.5	191.8	190.3	188.2	185.1	182.0
165°	185.2	186.5	186.2	186.2	186.2	186.5	185.2	183.9	182.2	179.8	177.9
167.5°	178.9	179.8	179.6	179.6	179.6	179.8	178.9	178.3	177.1	175.8	174.3
170°	175.2	175.9	175.5	175.5	175.5	175.9	175.2	174.8	174.2	172.9	171.8
172.5°	172.0	172.7	172.1	171.8	172.1	172.7	172.0	171.9	171.5	170.5	169.8
175°	167.9	168.2	167.9	167.6	167.9	168.2	167.9	167.9	167.9	167.2	166.8
177.5°	165.3	165.6	165.0	165.0	165.0	165.6	165.3	165.6	165.6	165.3	165.0
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P332272-830

CATALOG NUMBER: S123RDIP-S560D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	804.9	809.0	813.0	816.7	822.6	825.1	828.9	830.3	834.6	841.0	846.2
5°	755.9	761.8	769.3	775.4	785.2	792.8	801.1	809.0	818.4	831.8	843.7
7.5°	714.4	720.1	729.2	740.6	751.4	762.1	773.5	784.3	797.8	816.9	835.8
10°	687.0	693.9	704.7	717.0	730.3	740.8	754.1	767.9	784.5	806.5	829.2
12.5°	663.4	668.5	681.0	692.7	707.8	721.1	734.2	750.3	769.2	792.7	820.0
15°	625.7	632.8	645.2	658.1	674.0	688.1	705.0	724.5	743.0	771.8	805.0
17.5°	587.8	598.8	611.5	626.2	638.0	657.4	675.8	695.8	718.5	749.1	785.5
20°	563.5	572.2	584.1	605.4	620.9	635.7	652.7	677.6	698.5	733.2	771.1
22.5°	543.0	549.4	562.7	580.3	598.4	615.5	632.8	656.6	682.4	715.3	756.4
25°	512.6	522.7	532.8	545.4	565.0	585.6	604.4	624.5	652.0	687.0	731.4
27.5°	483.0	492.1	502.1	517.6	532.4	551.7	571.3	594.5	623.9	660.9	706.0
30°	463.9	470.8	480.1	500.0	513.4	530.0	553.1	573.6	601.1	640.5	688.1
32.5°	444.2	453.2	463.4	478.6	495.1	510.9	532.0	554.3	582.3	621.0	669.9
35°	416.2	426.7	437.2	448.4	465.0	481.3	498.9	523.5	552.0	589.6	637.5
37.5°	390.5	398.9	407.5	421.3	437.1	452.5	469.0	493.2	520.1	560.6	604.6
40°	374.0	381.6	388.0	402.6	417.7	434.3	450.5	471.8	500.7	538.7	581.3
42.5°	356.1	363.1	371.9	383.7	400.1	414.1	430.4	450.4	477.6	516.1	553.5
45°	329.2	337.1	344.8	356.0	372.2	385.9	400.4	419.5	447.3	479.1	512.3
47.5°	301.3	309.2	317.9	328.8	342.9	356.8	371.3	388.2	413.6	444.8	467.1
50°	283.4	289.9	298.6	309.3	322.3	337.1	350.2	368.6	392.8	417.4	436.9
52.5°	264.9	270.8	280.7	292.1	304.2	317.0	330.8	346.7	368.5	391.6	407.1
55°	236.1	243.4	251.7	262.8	274.8	285.6	298.9	315.2	332.5	349.8	360.3
57.5°	209.2	215.2	222.2	233.8	244.0	256.9	268.9	281.6	297.7	310.7	317.5
60°	189.5	194.9	204.0	214.1	223.9	235.0	248.7	261.4	273.6	284.1	289.5
62.5°	171.1	177.3	185.2	194.4	205.1	215.7	227.6	238.3	249.1	258.2	261.8
65°	146.9	152.0	157.8	166.5	175.1	186.0	195.3	206.1	214.1	219.1	222.3
67.5°	125.0	128.3	132.7	138.5	147.0	156.5	165.6	174.0	180.7	184.1	187.0
70°	110.8	113.0	116.2	122.1	128.6	136.9	146.2	152.3	158.2	161.0	163.9
72.5°	96.7	99.4	102.4	107.0	112.4	118.4	125.2	132.7	135.9	139.3	141.1
75°	73.3	77.3	81.2	84.1	87.8	92.5	98.6	103.2	105.1	107.9	108.3
77.5°	55.3	56.2	59.1	62.7	65.7	69.1	73.0	77.2	78.0	79.6	80.5
80°	45.5	45.5	45.5	47.7	51.3	53.8	57.4	59.6	61.0	61.4	61.7
82.5°	36.6	36.6	36.3	36.7	38.0	39.3	42.7	45.1	46.3	46.1	45.2
85°	23.8	23.1	23.1	22.7	23.1	22.3	22.1	23.5	25.6	25.6	24.9
87.5°	11.4	11.2	11.3	10.8	10.3	9.8	8.9	9.0	8.8	9.8	9.3
90°	8.0	8.3	7.4	6.3	5.4	4.3	3.7	3.0	2.0	1.3	0.7
92.5°	38.6	51.2	56.4	42.3	28.0	19.2	14.3	11.5	9.0	6.1	4.1
95°	160.2	197.6	175.9	121.2	71.6	43.3	30.3	21.7	16.0	12.3	11.3
97.5°	327.4	306.1	224.1	133.0	77.1	50.0	36.0	27.4	22.5	19.6	19.3
100°	381.1	315.5	213.2	125.5	76.3	53.0	40.0	32.0	27.3	25.0	24.7
102.5°	383.7	298.1	197.2	119.1	77.4	56.5	44.5	37.3	32.9	30.8	30.3
105°	363.4	267.8	177.6	114.6	80.3	62.3	51.9	45.6	41.7	39.7	38.6
107.5°	327.8	241.0	165.0	114.2	85.8	69.9	60.3	54.4	50.5	48.5	47.6
110°	305.5	225.8	160.2	115.6	90.3	75.3	66.0	60.3	56.6	55.0	53.9



TEST NUMBER: P332272-830

CATALOG NUMBER: S123RDIP-S560D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	286.0	215.7	157.5	118.3	94.8	80.9	71.8	66.2	62.5	60.8	59.9
115°	262.5	204.8	156.6	122.5	102.3	89.6	80.6	74.9	71.6	69.7	68.2
117.5°	248.3	198.4	157.1	128.3	110.2	97.6	89.4	83.0	79.9	78.2	76.7
120°	240.8	195.5	158.3	132.5	115.3	103.2	94.9	88.6	85.3	83.6	82.6
122.5°	234.7	193.7	160.0	136.6	120.6	108.9	100.0	94.0	90.3	88.7	87.7
125°	226.9	191.1	162.9	142.9	128.3	116.6	107.5	101.2	97.6	95.6	94.9
127.5°	219.9	190.0	166.1	148.1	134.9	123.7	114.6	107.6	104.0	101.4	100.5
130°	216.1	189.2	168.2	151.6	138.9	127.9	118.9	111.9	107.9	104.9	104.0
132.5°	212.7	188.9	169.8	154.8	142.3	131.7	122.9	115.9	111.1	107.8	106.6
135°	208.2	188.5	172.2	158.9	147.5	137.2	128.3	121.2	116.2	112.5	111.2
137.5°	204.2	187.8	173.8	161.9	151.2	141.2	132.9	125.9	120.6	117.1	115.6
140°	201.8	187.6	174.8	163.5	153.5	143.9	135.5	128.9	123.6	120.3	118.6
142.5°	199.7	187.0	175.7	165.1	155.4	146.0	138.3	131.6	126.8	123.2	121.8
145°	196.8	186.2	176.2	166.8	157.9	149.2	141.6	135.9	130.9	127.9	126.9
147.5°	194.1	184.9	176.2	168.0	159.9	151.9	145.4	140.0	135.6	132.7	132.1
150°	192.2	183.9	176.2	168.2	161.2	153.5	147.5	142.9	138.6	135.9	135.5
152.5°	190.0	182.6	175.4	168.7	162.0	155.4	149.7	145.5	141.8	139.1	139.0
155°	186.8	180.2	174.6	168.9	163.5	157.9	153.3	149.6	146.2	144.2	144.2
157.5°	183.2	178.1	173.4	169.2	164.4	159.9	156.3	153.2	150.2	148.6	148.4
160°	180.9	176.5	172.9	169.2	165.2	161.2	157.9	155.5	152.9	151.6	151.6
162.5°	178.4	174.9	171.8	168.9	165.5	162.0	159.2	157.1	155.0	153.9	153.9
165°	175.2	172.6	170.2	168.2	165.9	163.2	160.9	159.6	157.9	157.2	157.5
167.5°	172.1	170.1	168.6	167.7	165.8	163.9	162.4	161.5	160.2	159.9	160.2
170°	170.2	168.5	167.6	166.8	165.5	163.9	163.2	162.5	161.6	161.2	161.8
172.5°	168.3	167.2	166.7	166.6	165.5	164.1	163.7	163.3	162.6	162.5	163.0
175°	166.2	165.5	165.5	165.9	165.2	164.6	164.2	164.2	163.5	163.9	164.2
177.5°	164.9	164.6	164.9	165.3	164.9	164.6	164.6	164.6	164.3	164.6	164.9
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P332272-830

CATALOG NUMBER: S123RDIP-S560D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	847.9	851.1	855.2	861.2	865.8	869.9	870.7	871.9	874.8	879.7	883.4
5°	853.5	861.8	875.1	888.1	902.2	913.7	924.5	932.2	939.3	954.5	966.8
7.5°	851.7	870.2	891.1	914.5	938.0	960.9	982.1	1001.2	1020.1	1042.2	1067.3
10°	850.6	872.2	900.3	930.3	963.2	995.3	1026.3	1050.6	1078.7	1104.0	1136.1
12.5°	845.1	876.3	909.9	948.2	988.6	1025.7	1066.5	1099.9	1132.1	1168.7	1206.0
15°	837.9	875.8	918.4	969.3	1030.7	1075.4	1117.3	1175.4	1215.1	1254.9	1308.3
17.5°	824.8	871.1	924.4	990.4	1041.7	1101.8	1164.8	1210.8	1264.2	1320.2	1368.6
20°	814.5	868.3	927.8	992.8	1058.1	1123.5	1184.5	1239.3	1294.6	1359.2	1398.9
22.5°	804.1	857.2	919.2	988.2	1058.4	1127.2	1196.3	1260.7	1322.9	1388.1	1438.8
25°	781.9	845.1	912.3	982.7	1052.0	1127.8	1210.1	1282.0	1358.9	1426.0	1474.0
27.5°	759.6	817.5	884.3	955.7	1032.7	1122.4	1219.2	1300.9	1377.9	1426.0	1441.1
30°	739.3	800.7	862.0	934.6	1018.0	1118.0	1221.0	1314.5	1377.6	1398.5	1383.0
32.5°	718.9	774.5	835.3	909.6	998.2	1107.4	1223.2	1306.4	1344.4	1328.4	1265.2
35°	682.7	732.8	791.7	866.1	967.9	1101.5	1213.7	1270.1	1260.7	1170.4	1051.2
37.5°	643.9	684.9	739.3	817.1	936.5	1078.0	1172.7	1181.0	1099.8	961.2	823.6
40°	613.3	650.2	706.2	787.4	912.3	1054.9	1131.4	1097.9	971.9	817.7	702.9
42.5°	583.6	614.6	668.5	756.2	889.2	1023.4	1069.9	996.7	851.4	705.6	601.2
45°	533.2	562.4	616.6	706.5	841.9	963.2	957.1	830.0	684.5	567.1	480.5
47.5°	485.4	511.0	561.8	653.6	786.4	872.9	815.5	680.3	556.9	462.8	401.0
50°	451.7	476.9	527.4	618.0	741.9	805.0	723.1	592.8	479.8	401.8	352.7
52.5°	419.2	443.9	490.2	578.4	688.2	725.9	637.9	517.1	422.9	355.6	313.4
55°	374.0	392.8	434.3	518.8	600.7	609.4	520.2	419.1	341.5	294.5	265.7
57.5°	327.9	344.0	385.0	452.3	509.8	505.3	420.8	333.4	281.1	246.2	225.3
60°	297.8	313.7	349.8	407.6	450.9	435.7	358.2	287.8	243.0	217.4	200.8
62.5°	269.8	282.2	316.0	358.2	389.4	372.2	306.1	247.9	212.4	190.8	177.6
65°	229.2	239.3	266.5	288.4	305.8	289.2	234.3	193.9	168.2	153.1	144.0
67.5°	190.7	197.1	214.2	222.2	234.4	216.2	176.2	149.1	134.5	121.8	115.5
70°	166.5	171.2	180.1	186.6	189.9	171.2	141.5	121.7	109.4	100.4	96.4
72.5°	142.1	146.3	148.1	153.4	151.7	134.1	113.8	98.0	89.2	83.0	77.9
75°	108.7	110.5	108.7	106.5	101.8	89.5	75.5	67.5	61.0	58.2	56.4
77.5°	79.2	78.6	76.2	72.8	64.8	57.0	49.5	46.8	44.0	42.4	41.8
80°	61.0	59.6	57.4	52.0	45.1	39.7	37.9	36.1	35.1	33.2	32.9
82.5°	45.4	44.6	40.9	36.4	31.6	29.0	27.5	26.9	25.7	24.9	24.8
85°	24.2	23.1	19.1	16.6	15.9	15.2	14.8	14.8	13.4	13.0	13.0
87.5°	8.1	6.5	6.4	5.7	5.7	5.4	5.8	5.5	5.5	5.7	5.1
90°	1.3	2.0	3.0	3.7	4.3	5.4	6.3	7.4	8.3	8.0	8.3
92.5°	6.1	9.0	11.5	14.3	19.2	28.0	42.3	56.4	51.2	38.6	28.1
95°	12.3	16.0	21.7	30.3	43.3	71.6	121.2	175.9	197.6	160.2	119.9
97.5°	19.6	22.5	27.4	36.0	50.0	77.1	133.0	224.1	306.1	327.4	298.9
100°	25.0	27.3	32.0	40.0	53.0	76.3	125.5	213.2	315.5	381.1	392.7
102.5°	30.8	32.9	37.3	44.5	56.5	77.4	119.1	197.2	298.1	383.7	423.9
105°	39.7	41.7	45.6	51.9	62.3	80.3	114.6	177.6	267.8	363.4	433.0
107.5°	48.5	50.5	54.4	60.3	69.9	85.8	114.2	165.0	241.0	327.8	406.7
110°	55.0	56.6	60.3	66.0	75.3	90.3	115.6	160.2	225.8	305.5	381.7



TEST NUMBER: P332272-830

CATALOG NUMBER: S123RDIP-S560D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	60.8	62.5	66.2	71.8	80.9	94.8	118.3	157.5	215.7	286.0	356.9
115°	69.7	71.6	74.9	80.6	89.6	102.3	122.5	156.6	204.8	262.5	324.0
117.5°	78.2	79.9	83.0	89.4	97.6	110.2	128.3	157.1	198.4	248.3	300.3
120°	83.6	85.3	88.6	94.9	103.2	115.3	132.5	158.3	195.5	240.8	287.8
122.5°	88.7	90.3	94.0	100.0	108.9	120.6	136.6	160.0	193.7	234.7	278.0
125°	95.6	97.6	101.2	107.5	116.6	128.3	142.9	162.9	191.1	226.9	264.8
127.5°	101.4	104.0	107.6	114.6	123.7	134.9	148.1	166.1	190.0	219.9	253.4
130°	104.9	107.9	111.9	118.9	127.9	138.9	151.6	168.2	189.2	216.1	246.1
132.5°	107.8	111.1	115.9	122.9	131.7	142.3	154.8	169.8	188.9	212.7	239.5
135°	112.5	116.2	121.2	128.3	137.2	147.5	158.9	172.2	188.5	208.2	230.5
137.5°	117.1	120.6	125.9	132.9	141.2	151.2	161.9	173.8	187.8	204.2	222.3
140°	120.3	123.6	128.9	135.5	143.9	153.5	163.5	174.8	187.6	201.8	217.5
142.5°	123.2	126.8	131.6	138.3	146.0	155.4	165.1	175.7	187.0	199.7	213.0
145°	127.9	130.9	135.9	141.6	149.2	157.9	166.8	176.2	186.2	196.8	207.5
147.5°	132.7	135.6	140.0	145.4	151.9	159.9	168.0	176.2	184.9	194.1	203.0
150°	135.9	138.6	142.9	147.5	153.5	161.2	168.2	176.2	183.9	192.2	199.8
152.5°	139.1	141.8	145.5	149.7	155.4	162.0	168.7	175.4	182.6	190.0	196.9
155°	144.2	146.2	149.6	153.3	157.9	163.5	168.9	174.6	180.2	186.8	192.6
157.5°	148.6	150.2	153.2	156.3	159.9	164.4	169.2	173.4	178.1	183.2	187.8
160°	151.6	152.9	155.5	157.9	161.2	165.2	169.2	172.9	176.5	180.9	185.2
162.5°	153.9	155.0	157.1	159.2	162.0	165.5	168.9	171.8	174.9	178.4	182.0
165°	157.2	157.9	159.6	160.9	163.2	165.9	168.2	170.2	172.6	175.2	177.9
167.5°	159.9	160.2	161.5	162.4	163.9	165.8	167.7	168.6	170.1	172.1	174.3
170°	161.2	161.6	162.5	163.2	163.9	165.5	166.8	167.6	168.5	170.2	171.8
172.5°	162.5	162.6	163.3	163.7	164.1	165.5	166.6	166.7	167.2	168.3	169.8
175°	163.9	163.5	164.2	164.2	164.6	165.2	165.9	165.5	165.5	166.2	166.8
177.5°	164.6	164.3	164.6	164.6	164.6	164.9	165.3	164.9	164.6	164.9	165.0
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	889.6	889.6	890.7	895.0	895.6	899.4	898.1
5°	977.6	984.5	987.0	997.9	1004.4	1007.2	1001.5
7.5°	1085.3	1104.7	1113.9	1125.2	1135.2	1138.3	1130.4
10°	1163.9	1184.1	1201.1	1211.5	1221.3	1227.8	1236.1
12.5°	1239.8	1264.7	1280.8	1295.6	1305.6	1313.9	1315.2
15°	1322.4	1359.9	1388.5	1409.4	1419.8	1425.3	1423.1
17.5°	1405.6	1440.4	1460.8	1482.1	1496.6	1497.3	1497.8
20°	1452.7	1486.7	1510.1	1526.0	1542.3	1541.5	1545.1
22.5°	1484.2	1510.9	1528.9	1540.4	1546.0	1543.2	1544.0
25°	1498.9	1506.8	1503.6	1485.2	1480.5	1463.6	1466.4
27.5°	1423.0	1385.4	1346.6	1296.6	1257.2	1225.7	1227.3
30°	1319.8	1253.4	1177.6	1114.1	1057.1	1041.1	1007.2
32.5°	1175.7	1076.1	987.3	928.1	879.1	865.8	836.2
35°	931.4	834.6	743.3	688.4	666.8	636.5	636.1
37.5°	724.0	638.8	590.5	549.3	527.7	509.3	507.6
40°	609.1	542.6	506.1	476.5	455.2	441.5	438.3
42.5°	528.8	475.0	440.8	422.5	406.1	399.1	393.8
45°	431.8	395.7	371.8	355.2	347.6	342.2	339.3
47.5°	361.2	337.0	320.7	309.7	303.5	297.8	299.4
50°	322.7	302.9	291.0	280.5	275.8	271.8	272.2
52.5°	291.8	274.0	264.4	256.8	251.0	248.2	246.8
55°	247.7	236.5	226.7	221.3	218.0	214.1	213.0
57.5°	211.2	202.6	194.6	188.5	187.8	183.9	184.4
60°	187.0	179.7	173.2	170.0	167.5	164.3	165.3
62.5°	167.1	161.0	155.0	152.4	149.9	147.5	148.0
65°	136.9	131.0	127.4	126.0	124.9	123.9	122.7
67.5°	109.1	105.5	103.2	100.1	97.9	97.6	96.4
70°	91.7	87.0	83.0	79.1	77.9	77.6	77.9
72.5°	73.5	70.5	69.5	67.5	67.3	66.4	67.0
75°	55.2	54.2	53.4	52.0	52.0	52.0	52.0
77.5°	40.7	40.1	39.7	39.3	39.0	38.5	38.5
80°	31.8	31.4	30.7	30.7	30.3	30.7	30.3
82.5°	23.9	23.9	23.2	23.2	22.8	22.6	22.8
85°	12.3	11.9	12.6	11.9	12.3	11.6	12.3
87.5°	5.2	5.3	5.1	5.0	4.8	5.5	4.8
90°	8.7	9.0	9.6	9.3	9.6	10.0	9.6
92.5°	22.2	19.6	17.9	17.3	16.3	16.7	16.0
95°	81.2	63.6	51.7	45.3	42.3	40.0	38.6
97.5°	239.4	196.4	156.7	132.1	117.1	108.0	105.2
100°	365.7	326.8	279.5	245.8	221.5	208.5	208.9
102.5°	423.0	400.3	370.3	344.1	324.9	314.1	306.3
105°	466.3	472.6	464.0	448.7	436.0	425.4	423.7
107.5°	460.8	490.0	501.9	502.2	497.9	494.3	491.3
110°	443.0	484.9	508.3	517.6	520.3	519.6	519.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	419.5	466.6	496.5	513.6	521.9	524.4	524.5
115°	382.0	431.0	467.3	492.3	506.9	513.6	515.3
117.5°	350.3	394.3	431.1	457.2	474.0	483.5	485.8
120°	332.7	372.7	406.3	432.6	451.3	459.3	461.3
122.5°	318.6	355.6	386.9	410.3	427.1	435.8	438.4
125°	301.1	333.1	359.8	381.1	395.7	404.1	406.3
127.5°	285.7	314.5	338.8	357.8	370.3	377.9	379.9
130°	276.2	303.1	325.7	343.4	355.4	362.4	365.0
132.5°	267.0	292.2	313.8	330.4	342.3	348.6	350.4
135°	254.1	275.8	294.7	311.1	321.1	327.1	329.4
137.5°	241.7	260.3	276.8	290.5	300.7	305.7	307.3
140°	234.5	250.4	264.8	277.5	286.8	292.1	291.8
142.5°	227.5	241.4	253.8	264.7	273.0	277.7	277.4
145°	218.5	229.1	238.8	247.1	254.1	256.8	257.5
147.5°	211.8	220.4	227.2	233.6	238.3	240.8	241.1
150°	207.5	214.5	220.8	225.8	229.5	231.5	231.5
152.5°	203.5	209.7	215.0	218.9	222.3	223.5	223.5
155°	197.8	202.8	206.8	209.8	212.5	213.2	213.5
157.5°	192.3	196.1	199.3	201.9	203.9	204.4	204.3
160°	188.9	192.2	194.5	196.8	198.9	198.9	198.5
162.5°	185.1	188.2	190.3	191.8	193.5	193.5	193.2
165°	179.8	182.2	183.9	185.2	186.5	186.2	186.2
167.5°	175.8	177.1	178.3	178.9	179.8	179.6	179.6
170°	172.9	174.2	174.8	175.2	175.9	175.5	175.5
172.5°	170.5	171.5	171.9	172.0	172.7	172.1	171.8
175°	167.2	167.9	167.9	167.9	168.2	167.9	167.6
177.5°	165.3	165.6	165.6	165.3	165.6	165.0	165.0
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6

(END OF REPORT)