

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: P332272-840

Luminaire Tested: **S123RDIP-S560D365U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332272-840
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-S560D365U840-4F0-1E-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: 3577.4 lumens
Efficiency: N/A
Efficacy: 130.1 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

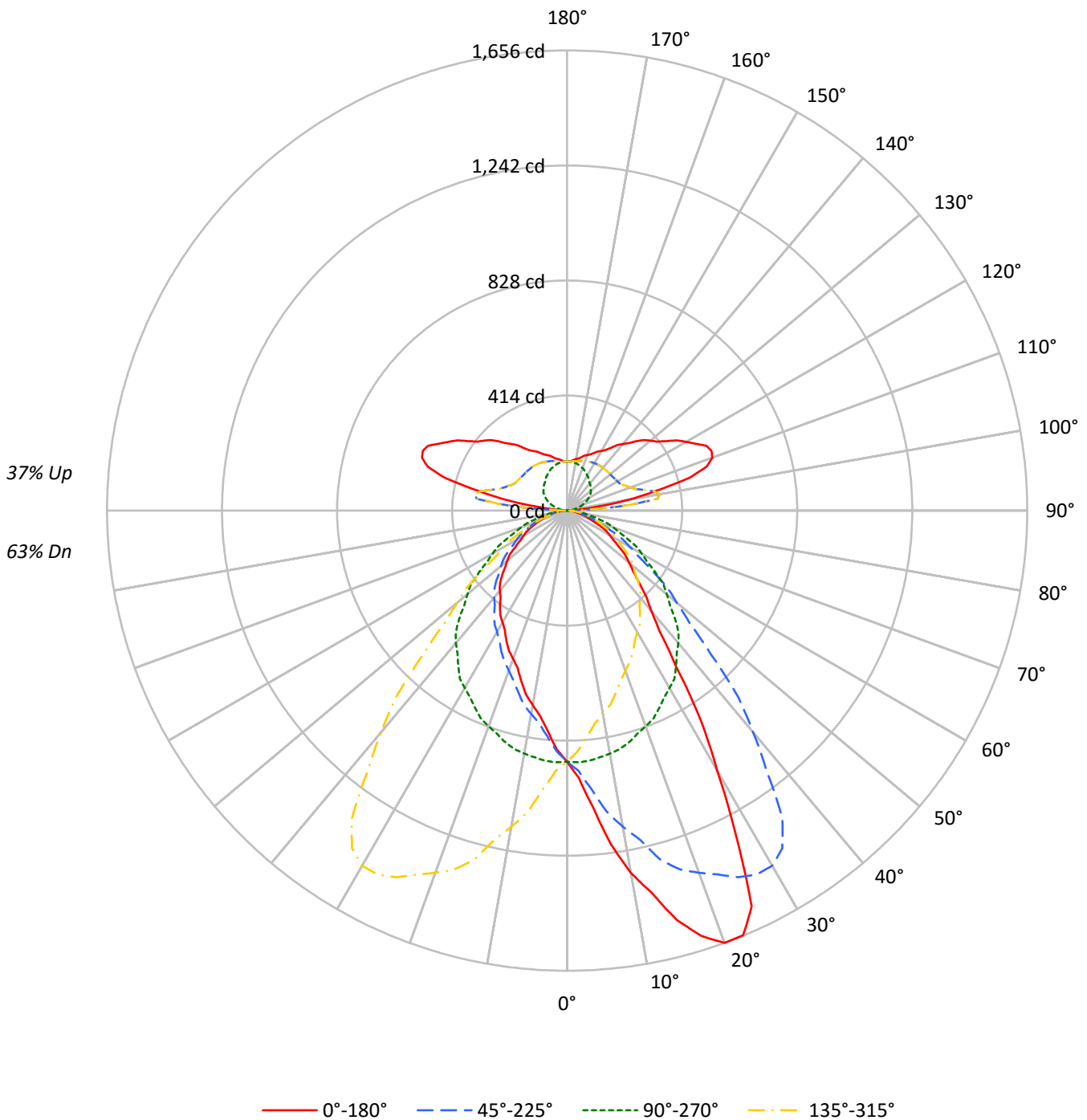
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	9725	9725	9725	9725
5°	11594	9767	8602	9767
10°	14476	9711	7770	9711
15°	16992	9611	7086	9611
20°	18963	9464	6504	9464
25°	18659	9308	6147	9308
30°	13412	9163	5778	9163
35°	8956	8976	5540	8976
40°	6598	8751	5295	8751
45°	5535	8356	5051	8356
50°	4883	7839	4716	7839
55°	4282	7246	4252	7246
60°	3813	6678	3899	6678
65°	3349	6067	3627	6067
70°	2628	5526	3311	5526
75°	2316	4824	3023	4824
80°	2015	4097	2975	4097
85°	1618	3298	3149	3298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	2.5
10°-20°	277.6	7.8
20°-30°	436.1	12.2
30°-40°	455.0	12.7
40°-50°	389.4	10.9
50°-60°	296.8	8.3
60°-70°	190.2	5.3
70°-80°	91.5	2.6
80°-90°	25.6	0.7
90°-100°	98.1	2.7
100°-110°	277.8	7.8
110°-120°	273.3	7.6
120°-130°	218.0	6.1
130°-140°	171.9	4.8
140°-150°	128.3	3.6
150°-160°	89.4	2.5
160°-170°	52.5	1.5
170°-180°	17.1	0.5
0°-30°	802.6	22.4
0°-40°	1257.6	35.2
0°-60°	1943.7	54.3
0°-90°	2251.1	62.9
90°-120°	649.2	18.1
90°-150°	1167.3	32.6
90°-180°	1326.0	37.1
0°-180°	3577.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	904	904	904	904	904	
5°	1073	904	796	904	1073	111
15°	1525	862	636	862	1525	432
25°	1571	784	518	784	1571	675
35°	682	683	422	683	682	447
45°	364	549	332	549	364	286
55°	228	386	227	386	228	206
65°	132	238	142	238	132	129
75°	56	116	73	116	56	60
85°	13	27	26	27	13	15
90°	10	1	10	1	10	6
95°	41	12	41	12	41	75
105°	454	41	454	41	454	448
115°	552	73	552	73	552	536
125°	435	102	435	102	435	395
135°	353	119	353	119	353	274
145°	276	136	276	136	276	175
155°	229	154	229	154	229	107
165°	199	169	199	169	199	57
175°	180	176	180	176	180	17
180°	176	176	176	176	176	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	962.3	963.6	959.6	959.0	954.3	953.1	953.1	946.5	942.5	937.3	934.2
5°	1073.0	1079.1	1076.1	1069.1	1057.5	1054.8	1047.4	1035.8	1022.7	1006.4	998.8
7.5°	1211.1	1219.6	1216.3	1205.6	1193.5	1183.6	1162.9	1143.6	1116.6	1093.0	1072.7
10°	1324.4	1315.5	1308.6	1298.1	1286.9	1268.7	1247.1	1217.3	1182.9	1155.8	1125.6
12.5°	1409.2	1407.8	1398.9	1388.2	1372.3	1355.0	1328.4	1292.1	1252.1	1212.9	1178.5
15°	1524.8	1527.1	1521.3	1510.1	1487.6	1457.0	1416.8	1401.8	1344.5	1301.9	1259.4
17.5°	1604.8	1604.3	1603.5	1587.9	1565.1	1543.3	1506.0	1466.3	1414.5	1354.5	1297.3
20°	1655.5	1651.6	1652.4	1635.0	1618.0	1592.9	1556.5	1498.8	1456.3	1387.0	1327.9
22.5°	1654.3	1653.5	1656.4	1650.4	1638.1	1618.8	1590.2	1541.6	1487.2	1417.3	1350.8
25°	1571.1	1568.1	1586.3	1591.2	1611.0	1614.5	1606.0	1579.3	1527.8	1455.9	1373.5
27.5°	1314.9	1313.2	1347.0	1389.2	1442.8	1484.4	1524.6	1544.0	1527.8	1476.3	1393.8
30°	1079.1	1115.5	1132.6	1193.7	1261.7	1342.9	1414.1	1481.8	1498.4	1476.0	1408.4
32.5°	896.0	927.7	941.9	994.4	1057.8	1153.0	1259.7	1355.5	1423.3	1440.5	1399.7
35°	681.6	682.0	714.4	737.6	796.4	894.2	997.9	1126.3	1253.9	1350.7	1360.8
37.5°	543.8	545.7	565.4	588.5	632.7	684.4	775.7	882.4	1029.9	1178.3	1265.4
40°	469.6	473.0	487.8	510.6	542.3	581.4	652.6	753.1	876.1	1041.3	1176.3
42.5°	421.9	427.6	435.2	452.7	472.3	509.0	566.5	644.2	756.0	912.2	1067.9
45°	363.6	366.7	372.4	380.6	398.4	423.9	462.6	514.8	607.6	733.4	889.3
47.5°	320.7	319.1	325.2	331.8	343.7	361.0	387.0	429.6	495.8	596.6	728.9
50°	291.6	291.2	295.5	300.5	311.7	324.6	345.8	377.9	430.5	514.0	635.1
52.5°	264.4	265.9	268.9	275.2	283.3	293.6	312.7	335.8	381.0	453.1	554.0
55°	228.2	229.3	233.6	237.1	242.9	253.4	265.4	284.7	315.6	365.9	449.1
57.5°	197.5	197.0	201.2	202.0	208.5	217.0	226.3	241.4	263.8	301.1	357.2
60°	177.1	176.0	179.5	182.2	185.6	192.6	200.4	215.1	232.9	260.3	308.3
62.5°	158.5	158.0	160.6	163.3	166.1	172.5	179.0	190.3	204.4	227.5	265.6
65°	131.5	132.7	133.8	135.0	136.5	140.4	146.6	154.3	164.0	180.3	207.7
67.5°	103.3	104.5	104.9	107.2	110.6	113.0	116.8	123.7	130.5	144.1	159.8
70°	83.5	83.1	83.5	84.7	89.0	93.2	98.3	103.3	107.6	117.2	130.4
72.5°	71.8	71.1	72.1	72.3	74.4	75.5	78.8	83.5	89.0	95.5	105.0
75°	55.7	55.7	55.7	55.7	57.3	58.1	59.2	60.4	62.3	65.3	72.3
77.5°	41.2	41.2	41.8	42.1	42.5	42.9	43.6	44.8	45.4	47.2	50.1
80°	32.5	32.9	32.5	32.9	32.9	33.6	34.0	35.2	35.5	37.6	38.7
82.5°	24.4	24.2	24.4	24.8	24.8	25.7	25.7	26.6	26.7	27.6	28.8
85°	13.1	12.4	13.1	12.7	13.5	12.7	13.1	13.9	13.9	14.3	15.9
87.5°	5.2	5.9	5.2	5.4	5.5	5.7	5.6	5.5	6.1	5.9	5.9
90°	10.3	10.7	10.3	10.0	10.3	9.6	9.3	8.9	8.6	8.9	7.9
92.5°	17.2	17.9	17.5	18.6	19.2	21.0	23.8	30.1	41.4	54.8	60.4
95°	41.4	42.8	45.3	48.6	55.3	68.2	87.1	128.5	171.7	211.7	188.4
97.5°	112.7	115.7	125.4	141.5	167.8	210.5	256.5	320.2	350.8	328.0	240.1
100°	223.8	223.4	237.3	263.4	299.4	350.1	391.8	420.7	408.3	338.0	228.4
102.5°	328.2	336.5	348.1	368.7	396.8	428.9	453.2	454.1	411.1	319.4	211.3
105°	453.9	455.8	467.2	480.7	497.2	506.3	499.6	463.9	389.3	286.9	190.3
107.5°	526.3	529.6	533.4	538.1	537.8	525.0	493.7	435.8	351.2	258.2	176.8
110°	556.0	556.7	557.4	554.6	544.6	519.6	474.6	409.0	327.3	242.0	171.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	562.0	561.9	559.2	550.3	532.0	499.9	449.5	382.4	306.4	231.1	168.7
115°	552.1	550.3	543.1	527.5	500.7	461.8	409.3	347.2	281.2	219.4	167.7
117.5°	520.5	518.1	507.9	489.9	461.9	422.4	375.4	321.7	266.0	212.6	168.3
120°	494.2	492.1	483.5	463.5	435.4	399.3	356.5	308.3	258.0	209.4	169.6
122.5°	469.7	467.0	457.6	439.6	414.5	381.0	341.3	297.8	251.5	207.5	171.5
125°	435.4	432.9	423.9	408.3	385.5	356.9	322.7	283.7	243.1	204.8	174.5
127.5°	407.1	404.9	396.8	383.3	363.0	337.0	306.1	271.5	235.6	203.6	177.9
130°	391.1	388.3	380.8	367.9	349.0	324.8	295.9	263.7	231.6	202.7	180.3
132.5°	375.5	373.4	366.8	354.0	336.2	313.1	286.1	256.6	227.9	202.4	182.0
135°	352.9	350.4	344.1	333.4	315.8	295.5	272.3	246.9	223.1	202.0	184.5
137.5°	329.2	327.5	322.1	311.2	296.6	278.9	258.9	238.1	218.8	201.2	186.2
140°	312.7	313.0	307.3	297.3	283.7	268.3	251.3	233.1	216.2	201.0	187.3
142.5°	297.2	297.5	292.5	283.6	272.0	258.6	243.8	228.2	214.0	200.4	188.2
145°	275.9	275.2	272.3	264.8	255.9	245.5	234.1	222.4	210.9	199.4	188.7
147.5°	258.3	258.0	255.3	250.2	243.5	236.1	226.9	217.5	207.9	198.1	188.7
150°	248.0	248.0	245.9	242.0	236.6	229.8	222.4	214.1	205.9	197.0	188.7
152.5°	239.4	239.4	238.1	234.5	230.4	224.7	218.0	211.0	203.6	195.6	187.9
155°	228.7	228.4	227.7	224.8	221.6	217.3	212.0	206.3	200.2	193.1	187.0
157.5°	218.9	219.0	218.4	216.3	213.6	210.2	206.0	201.3	196.3	190.9	185.8
160°	212.7	213.1	213.1	210.9	208.4	205.9	202.4	198.4	193.8	189.1	185.2
162.5°	207.0	207.3	207.3	205.5	203.9	201.7	198.3	195.0	191.2	187.4	184.1
165°	199.4	199.4	199.9	198.4	197.0	195.2	192.7	190.6	187.7	184.9	182.4
167.5°	192.4	192.4	192.7	191.7	191.1	189.8	188.3	186.7	184.4	182.3	180.7
170°	188.0	188.0	188.4	187.7	187.3	186.6	185.2	184.1	182.4	180.6	179.6
172.5°	184.1	184.4	185.0	184.3	184.2	183.8	182.7	181.9	180.4	179.2	178.6
175°	179.6	179.9	180.3	179.9	179.9	179.9	179.2	178.7	178.0	177.3	177.3
177.5°	176.8	176.8	177.4	177.1	177.4	177.4	177.1	176.8	176.6	176.3	176.6
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	932.9	932.0	927.7	922.7	916.3	911.9	908.5	906.7	901.1	894.2	889.6
5°	990.6	979.0	966.6	951.5	937.6	923.3	914.4	903.9	891.2	876.9	866.8
7.5°	1052.3	1029.6	1005.0	979.8	954.7	932.3	912.5	895.5	875.3	854.7	840.3
10°	1099.6	1066.4	1032.0	996.7	964.6	934.5	911.3	888.5	864.1	840.5	822.7
12.5°	1142.7	1098.9	1059.2	1015.9	974.9	938.9	905.4	878.6	849.3	824.2	803.9
15°	1197.1	1152.3	1104.3	1038.5	984.0	938.4	897.8	862.5	827.0	796.1	776.3
17.5°	1248.0	1180.5	1116.1	1061.2	990.4	933.3	883.7	841.6	802.6	769.8	745.5
20°	1269.1	1203.8	1133.7	1063.7	994.1	930.3	872.6	826.2	785.6	748.4	726.0
22.5°	1281.7	1207.7	1134.0	1058.7	984.8	918.5	861.5	810.4	766.4	731.1	703.5
25°	1296.6	1208.3	1127.1	1052.9	977.4	905.4	837.8	783.7	736.1	698.5	669.1
27.5°	1306.3	1202.5	1106.5	1024.0	947.5	875.9	813.9	756.4	708.1	668.4	636.9
30°	1308.2	1197.9	1090.8	1001.4	923.6	857.9	792.1	737.2	686.2	644.0	614.6
32.5°	1310.6	1186.5	1069.4	974.5	894.9	829.8	770.2	717.7	665.4	623.9	593.9
35°	1300.4	1180.1	1037.0	928.0	848.3	785.2	731.4	683.1	631.7	591.4	560.9
37.5°	1256.5	1155.0	1003.4	875.5	792.1	733.8	689.9	647.8	600.7	557.2	528.5
40°	1212.2	1130.2	977.4	843.6	756.6	696.6	657.1	622.8	577.1	536.4	505.5
42.5°	1146.3	1096.5	952.7	810.2	716.3	658.5	625.3	593.0	553.0	511.7	482.6
45°	1025.4	1032.0	902.0	757.0	660.7	602.6	571.3	548.9	513.3	479.3	449.5
47.5°	873.7	935.2	842.5	700.2	602.0	547.4	520.1	500.5	476.6	443.1	416.0
50°	774.8	862.5	794.9	662.2	565.1	511.0	483.9	468.1	447.2	420.8	395.0
52.5°	683.5	777.8	737.3	619.8	525.2	475.6	449.2	436.2	419.6	394.9	371.4
55°	557.3	652.9	643.6	555.8	465.3	420.8	400.7	386.1	374.8	356.3	337.7
57.5°	450.8	541.4	546.2	484.6	412.5	368.6	351.3	340.2	332.9	318.9	301.7
60°	383.7	466.9	483.1	436.7	374.8	336.1	319.1	310.2	304.4	293.2	280.0
62.5°	328.0	398.8	417.2	383.7	338.6	302.4	289.1	280.5	276.6	266.9	255.3
65°	251.1	309.8	327.6	309.0	285.5	256.4	245.6	238.2	234.8	229.3	220.9
67.5°	188.7	231.7	251.2	238.0	229.5	211.2	204.3	200.4	197.2	193.6	186.4
70°	151.6	183.4	203.5	200.0	193.0	183.4	178.3	175.6	172.5	169.5	163.2
72.5°	121.9	143.7	162.6	164.4	158.6	156.7	152.3	151.2	149.3	145.6	142.2
75°	80.9	95.9	109.1	114.1	116.4	118.4	116.4	116.0	115.6	112.6	110.6
77.5°	53.0	61.1	69.4	78.0	81.6	84.2	84.8	86.2	85.2	83.6	82.7
80°	40.6	42.5	48.4	55.7	61.5	63.8	65.3	66.1	65.7	65.3	63.8
82.5°	29.5	31.1	33.8	39.0	43.8	47.8	48.7	48.5	49.4	49.6	48.4
85°	15.9	16.3	17.1	17.8	20.5	24.7	26.0	26.7	27.5	27.5	25.1
87.5°	6.3	5.8	6.2	6.1	6.9	7.0	8.7	10.0	10.5	9.4	9.6
90°	6.8	5.8	4.6	3.9	3.2	2.1	1.4	0.7	1.4	2.1	3.2
92.5°	45.3	30.0	20.6	15.3	12.3	9.6	6.6	4.4	6.6	9.6	12.3
95°	129.9	76.7	46.4	32.5	23.2	17.2	13.2	12.1	13.2	17.2	23.2
97.5°	142.5	82.6	53.6	38.6	29.4	24.1	21.0	20.7	21.0	24.1	29.4
100°	134.5	81.7	56.8	42.8	34.2	29.3	26.8	26.5	26.8	29.3	34.2
102.5°	127.6	82.9	60.5	47.7	40.0	35.2	33.0	32.4	33.0	35.2	40.0
105°	122.8	86.0	66.8	55.6	48.9	44.6	42.5	41.4	42.5	44.6	48.9
107.5°	122.4	91.9	74.9	64.6	58.3	54.1	52.0	51.0	52.0	54.1	58.3
110°	123.8	96.7	80.7	70.7	64.6	60.7	58.9	57.8	58.9	60.7	64.6



TEST NUMBER: P332272-840

CATALOG NUMBER: S123RDIP-S560D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	126.7	101.6	86.6	77.0	70.9	67.0	65.1	64.1	65.1	67.0	70.9
115°	131.3	109.6	96.0	86.3	80.3	76.7	74.6	73.1	74.6	76.7	80.3
117.5°	137.4	118.1	104.6	95.7	89.0	85.6	83.8	82.2	83.8	85.6	89.0
120°	142.0	123.5	110.6	101.7	94.9	91.4	89.6	88.5	89.6	91.4	94.9
122.5°	146.3	129.2	116.6	107.1	100.7	96.7	95.0	93.9	95.0	96.7	100.7
125°	153.1	137.4	124.9	115.2	108.5	104.5	102.4	101.7	102.4	104.5	108.5
127.5°	158.6	144.5	132.5	122.8	115.3	111.4	108.7	107.7	108.7	111.4	115.3
130°	162.4	148.9	137.0	127.4	119.9	115.6	112.4	111.4	112.4	115.6	119.9
132.5°	165.8	152.5	141.1	131.7	124.2	119.1	115.5	114.2	115.5	119.1	124.2
135°	170.3	158.0	147.0	137.4	129.9	124.5	120.6	119.2	120.6	124.5	129.9
137.5°	173.5	162.0	151.3	142.4	134.9	129.3	125.4	123.9	125.4	129.3	134.9
140°	175.2	164.5	154.2	145.2	138.1	132.4	128.9	127.0	128.9	132.4	138.1
142.5°	176.9	166.5	156.4	148.1	141.0	135.8	132.0	130.5	132.0	135.8	141.0
145°	178.7	169.2	159.9	151.7	145.6	140.3	137.0	135.9	137.0	140.3	145.6
147.5°	180.0	171.3	162.8	155.8	150.0	145.3	142.2	141.6	142.2	145.3	150.0
150°	180.3	172.7	164.5	158.0	153.1	148.5	145.6	145.2	145.6	148.5	153.1
152.5°	180.8	173.6	166.5	160.4	155.9	151.9	149.1	149.0	149.1	151.9	155.9
155°	181.0	175.2	169.2	164.2	160.3	156.6	154.5	154.5	154.5	156.6	160.3
157.5°	181.3	176.1	171.3	167.4	164.1	161.0	159.3	159.0	159.3	161.0	164.1
160°	181.3	177.0	172.7	169.2	166.6	163.8	162.4	162.4	162.4	163.8	166.6
162.5°	181.0	177.3	173.6	170.6	168.3	166.1	164.9	164.9	164.9	166.1	168.3
165°	180.3	177.7	174.9	172.4	171.0	169.2	168.4	168.7	168.4	169.2	171.0
167.5°	179.7	177.6	175.6	174.0	173.0	171.7	171.3	171.7	171.3	171.7	173.0
170°	178.7	177.3	175.6	174.9	174.1	173.1	172.7	173.4	172.7	173.1	174.1
172.5°	178.5	177.3	175.8	175.4	175.0	174.2	174.1	174.6	174.1	174.2	175.0
175°	177.7	177.0	176.3	175.9	175.9	175.2	175.6	175.9	175.6	175.2	175.9
177.5°	177.1	176.6	176.3	176.3	176.3	176.0	176.3	176.6	176.3	176.0	176.3
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3



TEST NUMBER: P332272-840

CATALOG NUMBER: S123RDIP-S560D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	888.1	884.0	881.3	875.0	871.1	866.8	862.4	865.2	864.8	864.5	864.5
5°	858.3	849.4	841.3	830.8	824.3	816.2	809.9	809.2	810.7	805.3	802.2
7.5°	828.8	816.6	805.1	793.6	781.3	771.5	765.5	762.7	758.7	755.4	751.8
10°	808.0	793.8	782.4	768.2	755.1	743.5	736.1	731.0	728.3	725.6	720.6
12.5°	786.7	772.6	758.3	742.1	729.6	716.2	710.7	705.1	699.8	696.8	689.9
15°	755.4	737.2	722.2	705.1	691.3	678.0	670.3	659.1	657.5	653.7	646.7
17.5°	724.1	704.4	683.6	671.0	655.2	641.6	629.8	626.0	614.9	610.8	604.7
20°	699.3	681.2	665.3	648.6	625.8	613.1	603.8	598.7	589.9	584.4	580.6
22.5°	678.0	659.4	641.2	621.8	602.9	588.7	581.8	574.0	569.2	561.6	557.3
25°	647.5	627.4	605.3	584.4	570.9	560.1	549.3	542.3	535.3	531.8	524.1
27.5°	612.1	591.1	570.5	554.6	538.0	527.3	517.5	511.3	502.9	497.1	492.8
30°	592.6	567.8	550.1	535.7	514.4	504.4	497.1	489.3	483.1	477.0	472.6
32.5°	570.0	547.3	530.5	512.8	496.4	485.5	475.9	469.2	463.9	458.1	453.8
35°	534.5	515.6	498.2	480.4	468.4	457.2	446.0	440.2	435.2	429.7	425.9
37.5°	502.5	484.8	468.3	451.4	436.6	427.4	418.4	413.9	407.2	403.5	399.6
40°	482.7	465.3	447.6	431.3	415.8	408.9	400.7	394.2	388.0	385.3	381.0
42.5°	461.1	443.6	428.7	411.1	398.5	389.0	381.5	374.4	369.7	365.8	363.3
45°	429.0	413.4	398.8	381.4	369.4	361.2	352.7	346.2	341.9	339.2	335.0
47.5°	397.8	382.3	367.4	352.2	340.6	331.3	322.9	318.2	312.7	309.3	306.4
50°	375.2	361.2	345.4	331.4	319.9	310.6	303.7	297.8	292.8	288.5	286.6
52.5°	354.5	339.6	325.9	313.0	300.7	290.1	283.9	277.7	274.0	269.0	266.8
55°	320.2	306.0	294.4	281.6	269.6	260.7	253.0	247.5	243.7	238.2	235.2
57.5°	288.1	275.3	261.5	250.4	238.0	230.6	224.1	216.7	212.1	207.8	204.8
60°	266.5	251.8	239.8	229.3	218.5	208.8	203.1	197.2	192.3	187.9	185.3
62.5°	243.9	231.1	219.7	208.3	198.4	190.0	183.3	178.3	174.0	171.3	168.5
65°	209.2	199.2	187.6	178.3	169.1	162.9	157.4	153.2	150.1	148.1	145.8
67.5°	177.4	167.6	157.5	148.3	142.2	137.4	133.9	130.3	128.8	126.2	124.7
70°	156.6	146.6	137.7	130.8	124.5	121.1	118.8	116.0	114.5	111.4	109.9
72.5°	134.1	126.8	120.4	114.6	109.7	106.5	103.6	100.3	97.8	94.4	92.8
75°	105.6	99.1	94.0	90.1	87.1	82.8	78.6	75.0	73.9	72.7	72.3
77.5°	78.2	74.0	70.4	67.2	63.3	60.2	59.3	58.5	58.3	57.7	57.7
80°	61.5	57.7	54.9	51.1	48.8	48.8	48.8	48.0	48.4	48.4	48.4
82.5°	45.7	42.1	40.7	39.3	38.9	39.2	39.2	39.3	39.1	39.7	39.4
85°	23.6	23.9	24.7	24.3	24.7	24.7	25.5	25.1	25.5	24.7	25.5
87.5°	9.5	10.5	11.0	11.6	12.1	12.0	12.2	12.3	12.7	12.7	12.9
90°	3.9	4.6	5.8	6.8	7.9	8.9	8.6	8.9	9.3	9.6	10.3
92.5°	15.3	20.6	30.0	45.3	60.4	54.8	41.4	30.1	23.8	21.0	19.2
95°	32.5	46.4	76.7	129.9	188.4	211.7	171.7	128.5	87.1	68.2	55.3
97.5°	38.6	53.6	82.6	142.5	240.1	328.0	350.8	320.2	256.5	210.5	167.8
100°	42.8	56.8	81.7	134.5	228.4	338.0	408.3	420.7	391.8	350.1	299.4
102.5°	47.7	60.5	82.9	127.6	211.3	319.4	411.1	454.1	453.2	428.9	396.8
105°	55.6	66.8	86.0	122.8	190.3	286.9	389.3	463.9	499.6	506.3	497.2
107.5°	64.6	74.9	91.9	122.4	176.8	258.2	351.2	435.8	493.7	525.0	537.8
110°	70.7	80.7	96.7	123.8	171.7	242.0	327.3	409.0	474.6	519.6	544.6



TEST NUMBER: P332272-840

CATALOG NUMBER: S123RDIP-S560D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	77.0	86.6	101.6	126.7	168.7	231.1	306.4	382.4	449.5	499.9	532.0
115°	86.3	96.0	109.6	131.3	167.7	219.4	281.2	347.2	409.3	461.8	500.7
117.5°	95.7	104.6	118.1	137.4	168.3	212.6	266.0	321.7	375.4	422.4	461.9
120°	101.7	110.6	123.5	142.0	169.6	209.4	258.0	308.3	356.5	399.3	435.4
122.5°	107.1	116.6	129.2	146.3	171.5	207.5	251.5	297.8	341.3	381.0	414.5
125°	115.2	124.9	137.4	153.1	174.5	204.8	243.1	283.7	322.7	356.9	385.5
127.5°	122.8	132.5	144.5	158.6	177.9	203.6	235.6	271.5	306.1	337.0	363.0
130°	127.4	137.0	148.9	162.4	180.3	202.7	231.6	263.7	295.9	324.8	349.0
132.5°	131.7	141.1	152.5	165.8	182.0	202.4	227.9	256.6	286.1	313.1	336.2
135°	137.4	147.0	158.0	170.3	184.5	202.0	223.1	246.9	272.3	295.5	315.8
137.5°	142.4	151.3	162.0	173.5	186.2	201.2	218.8	238.1	258.9	278.9	296.6
140°	145.2	154.2	164.5	175.2	187.3	201.0	216.2	233.1	251.3	268.3	283.7
142.5°	148.1	156.4	166.5	176.9	188.2	200.4	214.0	228.2	243.8	258.6	272.0
145°	151.7	159.9	169.2	178.7	188.7	199.4	210.9	222.4	234.1	245.5	255.9
147.5°	155.8	162.8	171.3	180.0	188.7	198.1	207.9	217.5	226.9	236.1	243.5
150°	158.0	164.5	172.7	180.3	188.7	197.0	205.9	214.1	222.4	229.8	236.6
152.5°	160.4	166.5	173.6	180.8	187.9	195.6	203.6	211.0	218.0	224.7	230.4
155°	164.2	169.2	175.2	181.0	187.0	193.1	200.2	206.3	212.0	217.3	221.6
157.5°	167.4	171.3	176.1	181.3	185.8	190.9	196.3	201.3	206.0	210.2	213.6
160°	169.2	172.7	177.0	181.3	185.2	189.1	193.8	198.4	202.4	205.9	208.4
162.5°	170.6	173.6	177.3	181.0	184.1	187.4	191.2	195.0	198.3	201.7	203.9
165°	172.4	174.9	177.7	180.3	182.4	184.9	187.7	190.6	192.7	195.2	197.0
167.5°	174.0	175.6	177.6	179.7	180.7	182.3	184.4	186.7	188.3	189.8	191.1
170°	174.9	175.6	177.3	178.7	179.6	180.6	182.4	184.1	185.2	186.6	187.3
172.5°	175.4	175.8	177.3	178.5	178.6	179.2	180.4	181.9	182.7	183.8	184.2
175°	175.9	176.3	177.0	177.7	177.3	177.3	178.0	178.7	179.2	179.9	179.9
177.5°	176.3	176.3	176.6	177.1	176.6	176.3	176.6	176.8	177.1	177.4	177.4
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3



TEST NUMBER: P332272-840

CATALOG NUMBER: S123RDIP-S560D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	860.8	860.5	860.8	859.6	860.8	860.5	860.8	864.5	864.5	864.8	865.2
5°	801.0	800.6	799.5	796.1	799.5	800.6	801.0	802.2	805.3	810.7	809.2
7.5°	748.8	748.3	744.9	745.0	744.9	748.3	748.8	751.8	755.4	758.7	762.7
10°	717.9	718.3	713.7	710.9	713.7	718.3	717.9	720.6	725.6	728.3	731.0
12.5°	687.9	686.1	682.4	679.3	682.4	686.1	687.9	689.9	696.8	699.8	705.1
15°	648.2	644.4	635.1	635.9	635.1	644.4	648.2	646.7	653.7	657.5	659.1
17.5°	601.6	598.7	598.6	593.2	598.6	598.7	601.6	604.7	610.8	614.9	626.0
20°	574.4	572.5	573.2	567.8	573.2	572.5	574.4	580.6	584.4	589.9	598.7
22.5°	553.0	551.1	547.9	546.1	547.9	551.1	553.0	557.3	561.6	569.2	574.0
25°	521.8	518.7	515.6	517.6	515.6	518.7	521.8	524.1	531.8	535.3	542.3
27.5°	490.5	488.2	485.1	484.7	485.1	488.2	490.5	492.8	497.1	502.9	511.3
30°	470.7	468.4	466.9	464.9	466.9	468.4	470.7	472.6	477.0	483.1	489.3
32.5°	450.6	450.2	447.4	447.0	447.4	450.2	450.6	453.8	458.1	463.9	469.2
35°	424.3	422.0	421.2	421.6	421.2	422.0	424.3	425.9	429.7	435.2	440.2
37.5°	399.3	396.3	394.9	393.4	394.9	396.3	399.3	399.6	403.5	407.2	413.9
40°	381.4	378.3	377.5	376.8	377.5	378.3	381.4	381.0	385.3	388.0	394.2
42.5°	361.2	360.0	359.6	358.2	359.6	360.0	361.2	363.3	365.8	369.7	374.4
45°	333.8	333.5	331.1	331.8	331.1	333.5	333.8	335.0	339.2	341.9	346.2
47.5°	304.9	303.2	301.5	302.7	301.5	303.2	304.9	306.4	309.3	312.7	318.2
50°	285.1	284.3	280.8	281.6	280.8	284.3	285.1	286.6	288.5	292.8	297.8
52.5°	265.3	262.4	261.1	260.5	261.1	262.4	265.3	266.8	269.0	274.0	277.7
55°	232.5	228.9	227.4	226.6	227.4	228.9	232.5	235.2	238.2	243.7	247.5
57.5°	200.3	199.3	198.1	198.9	198.1	199.3	200.3	204.8	207.8	212.1	216.7
60°	181.4	181.4	181.4	181.1	181.4	181.4	181.4	185.3	187.9	192.3	197.2
62.5°	166.8	165.9	165.6	166.1	165.6	165.9	166.8	168.5	171.3	174.0	178.3
65°	144.6	144.3	142.7	142.4	142.7	144.3	144.6	145.8	148.1	150.1	153.2
67.5°	123.7	122.3	121.9	121.3	121.9	122.3	123.7	124.7	126.2	128.8	130.3
70°	108.0	107.1	104.8	105.2	104.8	107.1	108.0	109.9	111.4	114.5	116.0
72.5°	90.9	90.1	89.7	89.1	89.7	90.1	90.9	92.8	94.4	97.8	100.3
75°	71.9	71.6	71.2	72.7	71.2	71.6	71.9	72.3	72.7	73.9	75.0
77.5°	57.7	57.7	57.9	57.3	57.9	57.7	57.7	57.7	57.7	58.3	58.5
80°	48.4	48.4	48.0	48.0	48.0	48.4	48.4	48.4	48.4	48.4	48.0
82.5°	38.8	39.1	39.3	38.7	39.3	39.1	38.8	39.4	39.7	39.1	39.3
85°	25.5	25.1	26.0	25.5	26.0	25.1	25.5	25.5	24.7	25.5	25.1
87.5°	13.4	12.9	12.9	13.2	12.9	12.9	13.4	12.9	12.7	12.7	12.3
90°	10.0	10.3	10.7	10.3	10.7	10.3	10.0	10.3	9.6	9.3	8.9
92.5°	18.6	17.5	17.9	17.2	17.9	17.5	18.6	19.2	21.0	23.8	30.1
95°	48.6	45.3	42.8	41.4	42.8	45.3	48.6	55.3	68.2	87.1	128.5
97.5°	141.5	125.4	115.7	112.7	115.7	125.4	141.5	167.8	210.5	256.5	320.2
100°	263.4	237.3	223.4	223.8	223.4	237.3	263.4	299.4	350.1	391.8	420.7
102.5°	368.7	348.1	336.5	328.2	336.5	348.1	368.7	396.8	428.9	453.2	454.1
105°	480.7	467.2	455.8	453.9	455.8	467.2	480.7	497.2	506.3	499.6	463.9
107.5°	538.1	533.4	529.6	526.3	529.6	533.4	538.1	537.8	525.0	493.7	435.8
110°	554.6	557.4	556.7	556.0	556.7	557.4	554.6	544.6	519.6	474.6	409.0



TEST NUMBER: P332272-840

CATALOG NUMBER: S123RDIP-S560D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	550.3	559.2	561.9	562.0	561.9	559.2	550.3	532.0	499.9	449.5	382.4
115°	527.5	543.1	550.3	552.1	550.3	543.1	527.5	500.7	461.8	409.3	347.2
117.5°	489.9	507.9	518.1	520.5	518.1	507.9	489.9	461.9	422.4	375.4	321.7
120°	463.5	483.5	492.1	494.2	492.1	483.5	463.5	435.4	399.3	356.5	308.3
122.5°	439.6	457.6	467.0	469.7	467.0	457.6	439.6	414.5	381.0	341.3	297.8
125°	408.3	423.9	432.9	435.4	432.9	423.9	408.3	385.5	356.9	322.7	283.7
127.5°	383.3	396.8	404.9	407.1	404.9	396.8	383.3	363.0	337.0	306.1	271.5
130°	367.9	380.8	388.3	391.1	388.3	380.8	367.9	349.0	324.8	295.9	263.7
132.5°	354.0	366.8	373.4	375.5	373.4	366.8	354.0	336.2	313.1	286.1	256.6
135°	333.4	344.1	350.4	352.9	350.4	344.1	333.4	315.8	295.5	272.3	246.9
137.5°	311.2	322.1	327.5	329.2	327.5	322.1	311.2	296.6	278.9	258.9	238.1
140°	297.3	307.3	313.0	312.7	313.0	307.3	297.3	283.7	268.3	251.3	233.1
142.5°	283.6	292.5	297.5	297.2	297.5	292.5	283.6	272.0	258.6	243.8	228.2
145°	264.8	272.3	275.2	275.9	275.2	272.3	264.8	255.9	245.5	234.1	222.4
147.5°	250.2	255.3	258.0	258.3	258.0	255.3	250.2	243.5	236.1	226.9	217.5
150°	242.0	245.9	248.0	248.0	248.0	245.9	242.0	236.6	229.8	222.4	214.1
152.5°	234.5	238.1	239.4	239.4	239.4	238.1	234.5	230.4	224.7	218.0	211.0
155°	224.8	227.7	228.4	228.7	228.4	227.7	224.8	221.6	217.3	212.0	206.3
157.5°	216.3	218.4	219.0	218.9	219.0	218.4	216.3	213.6	210.2	206.0	201.3
160°	210.9	213.1	213.1	212.7	213.1	213.1	210.9	208.4	205.9	202.4	198.4
162.5°	205.5	207.3	207.3	207.0	207.3	207.3	205.5	203.9	201.7	198.3	195.0
165°	198.4	199.9	199.4	199.4	199.4	199.9	198.4	197.0	195.2	192.7	190.6
167.5°	191.7	192.7	192.4	192.4	192.4	192.7	191.7	191.1	189.8	188.3	186.7
170°	187.7	188.4	188.0	188.0	188.0	188.4	187.7	187.3	186.6	185.2	184.1
172.5°	184.3	185.0	184.4	184.1	184.4	185.0	184.3	184.2	183.8	182.7	181.9
175°	179.9	180.3	179.9	179.6	179.9	180.3	179.9	179.9	179.9	179.2	178.7
177.5°	177.1	177.4	176.8	176.8	176.8	177.4	177.1	177.4	177.4	177.1	176.8
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3



TEST NUMBER: P332272-840

CATALOG NUMBER: S123RDIP-S560D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	862.4	866.8	871.1	875.0	881.3	884.0	888.1	889.6	894.2	901.1	906.7
5°	809.9	816.2	824.3	830.8	841.3	849.4	858.3	866.8	876.9	891.2	903.9
7.5°	765.5	771.5	781.3	793.6	805.1	816.6	828.8	840.3	854.7	875.3	895.5
10°	736.1	743.5	755.1	768.2	782.4	793.8	808.0	822.7	840.5	864.1	888.5
12.5°	710.7	716.2	729.6	742.1	758.3	772.6	786.7	803.9	824.2	849.3	878.6
15°	670.3	678.0	691.3	705.1	722.2	737.2	755.4	776.3	796.1	827.0	862.5
17.5°	629.8	641.6	655.2	671.0	683.6	704.4	724.1	745.5	769.8	802.6	841.6
20°	603.8	613.1	625.8	648.6	665.3	681.2	699.3	726.0	748.4	785.6	826.2
22.5°	581.8	588.7	602.9	621.8	641.2	659.4	678.0	703.5	731.1	766.4	810.4
25°	549.3	560.1	570.9	584.4	605.3	627.4	647.5	669.1	698.5	736.1	783.7
27.5°	517.5	527.3	538.0	554.6	570.5	591.1	612.1	636.9	668.4	708.1	756.4
30°	497.1	504.4	514.4	535.7	550.1	567.8	592.6	614.6	644.0	686.2	737.2
32.5°	475.9	485.5	496.4	512.8	530.5	547.3	570.0	593.9	623.9	665.4	717.7
35°	446.0	457.2	468.4	480.4	498.2	515.6	534.5	560.9	591.4	631.7	683.1
37.5°	418.4	427.4	436.6	451.4	468.3	484.8	502.5	528.5	557.2	600.7	647.8
40°	400.7	408.9	415.8	431.3	447.6	465.3	482.7	505.5	536.4	577.1	622.8
42.5°	381.5	389.0	398.5	411.1	428.7	443.6	461.1	482.6	511.7	553.0	593.0
45°	352.7	361.2	369.4	381.4	398.8	413.4	429.0	449.5	479.3	513.3	548.9
47.5°	322.9	331.3	340.6	352.2	367.4	382.3	397.8	416.0	443.1	476.6	500.5
50°	303.7	310.6	319.9	331.4	345.4	361.2	375.2	395.0	420.8	447.2	468.1
52.5°	283.9	290.1	300.7	313.0	325.9	339.6	354.5	371.4	394.9	419.6	436.2
55°	253.0	260.7	269.6	281.6	294.4	306.0	320.2	337.7	356.3	374.8	386.1
57.5°	224.1	230.6	238.0	250.4	261.5	275.3	288.1	301.7	318.9	332.9	340.2
60°	203.1	208.8	218.5	229.3	239.8	251.8	266.5	280.0	293.2	304.4	310.2
62.5°	183.3	190.0	198.4	208.3	219.7	231.1	243.9	255.3	266.9	276.6	280.5
65°	157.4	162.9	169.1	178.3	187.6	199.2	209.2	220.9	229.3	234.8	238.2
67.5°	133.9	137.4	142.2	148.3	157.5	167.6	177.4	186.4	193.6	197.2	200.4
70°	118.8	121.1	124.5	130.8	137.7	146.6	156.6	163.2	169.5	172.5	175.6
72.5°	103.6	106.5	109.7	114.6	120.4	126.8	134.1	142.2	145.6	149.3	151.2
75°	78.6	82.8	87.1	90.1	94.0	99.1	105.6	110.6	112.6	115.6	116.0
77.5°	59.3	60.2	63.3	67.2	70.4	74.0	78.2	82.7	83.6	85.2	86.2
80°	48.8	48.8	48.8	51.1	54.9	57.7	61.5	63.8	65.3	65.7	66.1
82.5°	39.2	39.2	38.9	39.3	40.7	42.1	45.7	48.4	49.6	49.4	48.5
85°	25.5	24.7	24.7	24.3	24.7	23.9	23.6	25.1	27.5	27.5	26.7
87.5°	12.2	12.0	12.1	11.6	11.0	10.5	9.5	9.6	9.4	10.5	10.0
90°	8.6	8.9	7.9	6.8	5.8	4.6	3.9	3.2	2.1	1.4	0.7
92.5°	41.4	54.8	60.4	45.3	30.0	20.6	15.3	12.3	9.6	6.6	4.4
95°	171.7	211.7	188.4	129.9	76.7	46.4	32.5	23.2	17.2	13.2	12.1
97.5°	350.8	328.0	240.1	142.5	82.6	53.6	38.6	29.4	24.1	21.0	20.7
100°	408.3	338.0	228.4	134.5	81.7	56.8	42.8	34.2	29.3	26.8	26.5
102.5°	411.1	319.4	211.3	127.6	82.9	60.5	47.7	40.0	35.2	33.0	32.4
105°	389.3	286.9	190.3	122.8	86.0	66.8	55.6	48.9	44.6	42.5	41.4
107.5°	351.2	258.2	176.8	122.4	91.9	74.9	64.6	58.3	54.1	52.0	51.0
110°	327.3	242.0	171.7	123.8	96.7	80.7	70.7	64.6	60.7	58.9	57.8



TEST NUMBER: P332272-840

CATALOG NUMBER: S123RDIP-S560D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	306.4	231.1	168.7	126.7	101.6	86.6	77.0	70.9	67.0	65.1	64.1
115°	281.2	219.4	167.7	131.3	109.6	96.0	86.3	80.3	76.7	74.6	73.1
117.5°	266.0	212.6	168.3	137.4	118.1	104.6	95.7	89.0	85.6	83.8	82.2
120°	258.0	209.4	169.6	142.0	123.5	110.6	101.7	94.9	91.4	89.6	88.5
122.5°	251.5	207.5	171.5	146.3	129.2	116.6	107.1	100.7	96.7	95.0	93.9
125°	243.1	204.8	174.5	153.1	137.4	124.9	115.2	108.5	104.5	102.4	101.7
127.5°	235.6	203.6	177.9	158.6	144.5	132.5	122.8	115.3	111.4	108.7	107.7
130°	231.6	202.7	180.3	162.4	148.9	137.0	127.4	119.9	115.6	112.4	111.4
132.5°	227.9	202.4	182.0	165.8	152.5	141.1	131.7	124.2	119.1	115.5	114.2
135°	223.1	202.0	184.5	170.3	158.0	147.0	137.4	129.9	124.5	120.6	119.2
137.5°	218.8	201.2	186.2	173.5	162.0	151.3	142.4	134.9	129.3	125.4	123.9
140°	216.2	201.0	187.3	175.2	164.5	154.2	145.2	138.1	132.4	128.9	127.0
142.5°	214.0	200.4	188.2	176.9	166.5	156.4	148.1	141.0	135.8	132.0	130.5
145°	210.9	199.4	188.7	178.7	169.2	159.9	151.7	145.6	140.3	137.0	135.9
147.5°	207.9	198.1	188.7	180.0	171.3	162.8	155.8	150.0	145.3	142.2	141.6
150°	205.9	197.0	188.7	180.3	172.7	164.5	158.0	153.1	148.5	145.6	145.2
152.5°	203.6	195.6	187.9	180.8	173.6	166.5	160.4	155.9	151.9	149.1	149.0
155°	200.2	193.1	187.0	181.0	175.2	169.2	164.2	160.3	156.6	154.5	154.5
157.5°	196.3	190.9	185.8	181.3	176.1	171.3	167.4	164.1	161.0	159.3	159.0
160°	193.8	189.1	185.2	181.3	177.0	172.7	169.2	166.6	163.8	162.4	162.4
162.5°	191.2	187.4	184.1	181.0	177.3	173.6	170.6	168.3	166.1	164.9	164.9
165°	187.7	184.9	182.4	180.3	177.7	174.9	172.4	171.0	169.2	168.4	168.7
167.5°	184.4	182.3	180.7	179.7	177.6	175.6	174.0	173.0	171.7	171.3	171.7
170°	182.4	180.6	179.6	178.7	177.3	175.6	174.9	174.1	173.1	172.7	173.4
172.5°	180.4	179.2	178.6	178.5	177.3	175.8	175.4	175.0	174.2	174.1	174.6
175°	178.0	177.3	177.3	177.7	177.0	176.3	175.9	175.9	175.2	175.6	175.9
177.5°	176.6	176.3	176.6	177.1	176.6	176.3	176.3	176.3	176.0	176.3	176.6
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3



TEST NUMBER: P332272-840

CATALOG NUMBER: S123RDIP-S560D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	908.5	911.9	916.3	922.7	927.7	932.0	932.9	934.2	937.3	942.5	946.5
5°	914.4	923.3	937.6	951.5	966.6	979.0	990.6	998.8	1006.4	1022.7	1035.8
7.5°	912.5	932.3	954.7	979.8	1005.0	1029.6	1052.3	1072.7	1093.0	1116.6	1143.6
10°	911.3	934.5	964.6	996.7	1032.0	1066.4	1099.6	1125.6	1155.8	1182.9	1217.3
12.5°	905.4	938.9	974.9	1015.9	1059.2	1098.9	1142.7	1178.5	1212.9	1252.1	1292.1
15°	897.8	938.4	984.0	1038.5	1104.3	1152.3	1197.1	1259.4	1301.9	1344.5	1401.8
17.5°	883.7	933.3	990.4	1061.2	1116.1	1180.5	1248.0	1297.3	1354.5	1414.5	1466.3
20°	872.6	930.3	994.1	1063.7	1133.7	1203.8	1269.1	1327.9	1387.0	1456.3	1498.8
22.5°	861.5	918.5	984.8	1058.7	1134.0	1207.7	1281.7	1350.8	1417.3	1487.2	1541.6
25°	837.8	905.4	977.4	1052.9	1127.1	1208.3	1296.6	1373.5	1455.9	1527.8	1579.3
27.5°	813.9	875.9	947.5	1024.0	1106.5	1202.5	1306.3	1393.8	1476.3	1527.8	1544.0
30°	792.1	857.9	923.6	1001.4	1090.8	1197.9	1308.2	1408.4	1476.0	1498.4	1481.8
32.5°	770.2	829.8	894.9	974.5	1069.4	1186.5	1310.6	1399.7	1440.5	1423.3	1355.5
35°	731.4	785.2	848.3	928.0	1037.0	1180.1	1300.4	1360.8	1350.7	1253.9	1126.3
37.5°	689.9	733.8	792.1	875.5	1003.4	1155.0	1256.5	1265.4	1178.3	1029.9	882.4
40°	657.1	696.6	756.6	843.6	977.4	1130.2	1212.2	1176.3	1041.3	876.1	753.1
42.5°	625.3	658.5	716.3	810.2	952.7	1096.5	1146.3	1067.9	912.2	756.0	644.2
45°	571.3	602.6	660.7	757.0	902.0	1032.0	1025.4	889.3	733.4	607.6	514.8
47.5°	520.1	547.4	602.0	700.2	842.5	935.2	873.7	728.9	596.6	495.8	429.6
50°	483.9	511.0	565.1	662.2	794.9	862.5	774.8	635.1	514.0	430.5	377.9
52.5°	449.2	475.6	525.2	619.8	737.3	777.8	683.5	554.0	453.1	381.0	335.8
55°	400.7	420.8	465.3	555.8	643.6	652.9	557.3	449.1	365.9	315.6	284.7
57.5°	351.3	368.6	412.5	484.6	546.2	541.4	450.8	357.2	301.1	263.8	241.4
60°	319.1	336.1	374.8	436.7	483.1	466.9	383.7	308.3	260.3	232.9	215.1
62.5°	289.1	302.4	338.6	383.7	417.2	398.8	328.0	265.6	227.5	204.4	190.3
65°	245.6	256.4	285.5	309.0	327.6	309.8	251.1	207.7	180.3	164.0	154.3
67.5°	204.3	211.2	229.5	238.0	251.2	231.7	188.7	159.8	144.1	130.5	123.7
70°	178.3	183.4	193.0	200.0	203.5	183.4	151.6	130.4	117.2	107.6	103.3
72.5°	152.3	156.7	158.6	164.4	162.6	143.7	121.9	105.0	95.5	89.0	83.5
75°	116.4	118.4	116.4	114.1	109.1	95.9	80.9	72.3	65.3	62.3	60.4
77.5°	84.8	84.2	81.6	78.0	69.4	61.1	53.0	50.1	47.2	45.4	44.8
80°	65.3	63.8	61.5	55.7	48.4	42.5	40.6	38.7	37.6	35.5	35.2
82.5°	48.7	47.8	43.8	39.0	33.8	31.1	29.5	28.8	27.6	26.7	26.6
85°	26.0	24.7	20.5	17.8	17.1	16.3	15.9	15.9	14.3	13.9	13.9
87.5°	8.7	7.0	6.9	6.1	6.2	5.8	6.3	5.9	5.9	6.1	5.5
90°	1.4	2.1	3.2	3.9	4.6	5.8	6.8	7.9	8.9	8.6	8.9
92.5°	6.6	9.6	12.3	15.3	20.6	30.0	45.3	60.4	54.8	41.4	30.1
95°	13.2	17.2	23.2	32.5	46.4	76.7	129.9	188.4	211.7	171.7	128.5
97.5°	21.0	24.1	29.4	38.6	53.6	82.6	142.5	240.1	328.0	350.8	320.2
100°	26.8	29.3	34.2	42.8	56.8	81.7	134.5	228.4	338.0	408.3	420.7
102.5°	33.0	35.2	40.0	47.7	60.5	82.9	127.6	211.3	319.4	411.1	454.1
105°	42.5	44.6	48.9	55.6	66.8	86.0	122.8	190.3	286.9	389.3	463.9
107.5°	52.0	54.1	58.3	64.6	74.9	91.9	122.4	176.8	258.2	351.2	435.8
110°	58.9	60.7	64.6	70.7	80.7	96.7	123.8	171.7	242.0	327.3	409.0



TEST NUMBER: P332272-840

CATALOG NUMBER: S123RDIP-S560D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	65.1	67.0	70.9	77.0	86.6	101.6	126.7	168.7	231.1	306.4	382.4
115°	74.6	76.7	80.3	86.3	96.0	109.6	131.3	167.7	219.4	281.2	347.2
117.5°	83.8	85.6	89.0	95.7	104.6	118.1	137.4	168.3	212.6	266.0	321.7
120°	89.6	91.4	94.9	101.7	110.6	123.5	142.0	169.6	209.4	258.0	308.3
122.5°	95.0	96.7	100.7	107.1	116.6	129.2	146.3	171.5	207.5	251.5	297.8
125°	102.4	104.5	108.5	115.2	124.9	137.4	153.1	174.5	204.8	243.1	283.7
127.5°	108.7	111.4	115.3	122.8	132.5	144.5	158.6	177.9	203.6	235.6	271.5
130°	112.4	115.6	119.9	127.4	137.0	148.9	162.4	180.3	202.7	231.6	263.7
132.5°	115.5	119.1	124.2	131.7	141.1	152.5	165.8	182.0	202.4	227.9	256.6
135°	120.6	124.5	129.9	137.4	147.0	158.0	170.3	184.5	202.0	223.1	246.9
137.5°	125.4	129.3	134.9	142.4	151.3	162.0	173.5	186.2	201.2	218.8	238.1
140°	128.9	132.4	138.1	145.2	154.2	164.5	175.2	187.3	201.0	216.2	233.1
142.5°	132.0	135.8	141.0	148.1	156.4	166.5	176.9	188.2	200.4	214.0	228.2
145°	137.0	140.3	145.6	151.7	159.9	169.2	178.7	188.7	199.4	210.9	222.4
147.5°	142.2	145.3	150.0	155.8	162.8	171.3	180.0	188.7	198.1	207.9	217.5
150°	145.6	148.5	153.1	158.0	164.5	172.7	180.3	188.7	197.0	205.9	214.1
152.5°	149.1	151.9	155.9	160.4	166.5	173.6	180.8	187.9	195.6	203.6	211.0
155°	154.5	156.6	160.3	164.2	169.2	175.2	181.0	187.0	193.1	200.2	206.3
157.5°	159.3	161.0	164.1	167.4	171.3	176.1	181.3	185.8	190.9	196.3	201.3
160°	162.4	163.8	166.6	169.2	172.7	177.0	181.3	185.2	189.1	193.8	198.4
162.5°	164.9	166.1	168.3	170.6	173.6	177.3	181.0	184.1	187.4	191.2	195.0
165°	168.4	169.2	171.0	172.4	174.9	177.7	180.3	182.4	184.9	187.7	190.6
167.5°	171.3	171.7	173.0	174.0	175.6	177.6	179.7	180.7	182.3	184.4	186.7
170°	172.7	173.1	174.1	174.9	175.6	177.3	178.7	179.6	180.6	182.4	184.1
172.5°	174.1	174.2	175.0	175.4	175.8	177.3	178.5	178.6	179.2	180.4	181.9
175°	175.6	175.2	175.9	175.9	176.3	177.0	177.7	177.3	177.3	178.0	178.7
177.5°	176.3	176.0	176.3	176.3	176.3	176.6	177.1	176.6	176.3	176.6	176.8
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	953.1	953.1	954.3	959.0	959.6	963.6	962.3
5°	1047.4	1054.8	1057.5	1069.1	1076.1	1079.1	1073.0
7.5°	1162.9	1183.6	1193.5	1205.6	1216.3	1219.6	1211.1
10°	1247.1	1268.7	1286.9	1298.1	1308.6	1315.5	1324.4
12.5°	1328.4	1355.0	1372.3	1388.2	1398.9	1407.8	1409.2
15°	1416.8	1457.0	1487.6	1510.1	1521.3	1527.1	1524.8
17.5°	1506.0	1543.3	1565.1	1587.9	1603.5	1604.3	1604.8
20°	1556.5	1592.9	1618.0	1635.0	1652.4	1651.6	1655.5
22.5°	1590.2	1618.8	1638.1	1650.4	1656.4	1653.5	1654.3
25°	1606.0	1614.5	1611.0	1591.2	1586.3	1568.1	1571.1
27.5°	1524.6	1484.4	1442.8	1389.2	1347.0	1313.2	1314.9
30°	1414.1	1342.9	1261.7	1193.7	1132.6	1115.5	1079.1
32.5°	1259.7	1153.0	1057.8	994.4	941.9	927.7	896.0
35°	997.9	894.2	796.4	737.6	714.4	682.0	681.6
37.5°	775.7	684.4	632.7	588.5	565.4	545.7	543.8
40°	652.6	581.4	542.3	510.6	487.8	473.0	469.6
42.5°	566.5	509.0	472.3	452.7	435.2	427.6	421.9
45°	462.6	423.9	398.4	380.6	372.4	366.7	363.6
47.5°	387.0	361.0	343.7	331.8	325.2	319.1	320.7
50°	345.8	324.6	311.7	300.5	295.5	291.2	291.6
52.5°	312.7	293.6	283.3	275.2	268.9	265.9	264.4
55°	265.4	253.4	242.9	237.1	233.6	229.3	228.2
57.5°	226.3	217.0	208.5	202.0	201.2	197.0	197.5
60°	200.4	192.6	185.6	182.2	179.5	176.0	177.1
62.5°	179.0	172.5	166.1	163.3	160.6	158.0	158.5
65°	146.6	140.4	136.5	135.0	133.8	132.7	131.5
67.5°	116.8	113.0	110.6	107.2	104.9	104.5	103.3
70°	98.3	93.2	89.0	84.7	83.5	83.1	83.5
72.5°	78.8	75.5	74.4	72.3	72.1	71.1	71.8
75°	59.2	58.1	57.3	55.7	55.7	55.7	55.7
77.5°	43.6	42.9	42.5	42.1	41.8	41.2	41.2
80°	34.0	33.6	32.9	32.9	32.5	32.9	32.5
82.5°	25.7	25.7	24.8	24.8	24.4	24.2	24.4
85°	13.1	12.7	13.5	12.7	13.1	12.4	13.1
87.5°	5.6	5.7	5.5	5.4	5.2	5.9	5.2
90°	9.3	9.6	10.3	10.0	10.3	10.7	10.3
92.5°	23.8	21.0	19.2	18.6	17.5	17.9	17.2
95°	87.1	68.2	55.3	48.6	45.3	42.8	41.4
97.5°	256.5	210.5	167.8	141.5	125.4	115.7	112.7
100°	391.8	350.1	299.4	263.4	237.3	223.4	223.8
102.5°	453.2	428.9	396.8	368.7	348.1	336.5	328.2
105°	499.6	506.3	497.2	480.7	467.2	455.8	453.9
107.5°	493.7	525.0	537.8	538.1	533.4	529.6	526.3
110°	474.6	519.6	544.6	554.6	557.4	556.7	556.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	449.5	499.9	532.0	550.3	559.2	561.9	562.0
115°	409.3	461.8	500.7	527.5	543.1	550.3	552.1
117.5°	375.4	422.4	461.9	489.9	507.9	518.1	520.5
120°	356.5	399.3	435.4	463.5	483.5	492.1	494.2
122.5°	341.3	381.0	414.5	439.6	457.6	467.0	469.7
125°	322.7	356.9	385.5	408.3	423.9	432.9	435.4
127.5°	306.1	337.0	363.0	383.3	396.8	404.9	407.1
130°	295.9	324.8	349.0	367.9	380.8	388.3	391.1
132.5°	286.1	313.1	336.2	354.0	366.8	373.4	375.5
135°	272.3	295.5	315.8	333.4	344.1	350.4	352.9
137.5°	258.9	278.9	296.6	311.2	322.1	327.5	329.2
140°	251.3	268.3	283.7	297.3	307.3	313.0	312.7
142.5°	243.8	258.6	272.0	283.6	292.5	297.5	297.2
145°	234.1	245.5	255.9	264.8	272.3	275.2	275.9
147.5°	226.9	236.1	243.5	250.2	255.3	258.0	258.3
150°	222.4	229.8	236.6	242.0	245.9	248.0	248.0
152.5°	218.0	224.7	230.4	234.5	238.1	239.4	239.4
155°	212.0	217.3	221.6	224.8	227.7	228.4	228.7
157.5°	206.0	210.2	213.6	216.3	218.4	219.0	218.9
160°	202.4	205.9	208.4	210.9	213.1	213.1	212.7
162.5°	198.3	201.7	203.9	205.5	207.3	207.3	207.0
165°	192.7	195.2	197.0	198.4	199.9	199.4	199.4
167.5°	188.3	189.8	191.1	191.7	192.7	192.4	192.4
170°	185.2	186.6	187.3	187.7	188.4	188.0	188.0
172.5°	182.7	183.8	184.2	184.3	185.0	184.4	184.1
175°	179.2	179.9	179.9	179.9	180.3	179.9	179.6
177.5°	177.1	177.4	177.4	177.1	177.4	176.8	176.8
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3

(END OF REPORT)