

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: P332278-840

Luminaire Tested: **S123RDIP-S560D585U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332278-840
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-S560D585U840-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4392.7 lumens
Efficiency: N/A
Efficacy: 133.9 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: General Diffuse

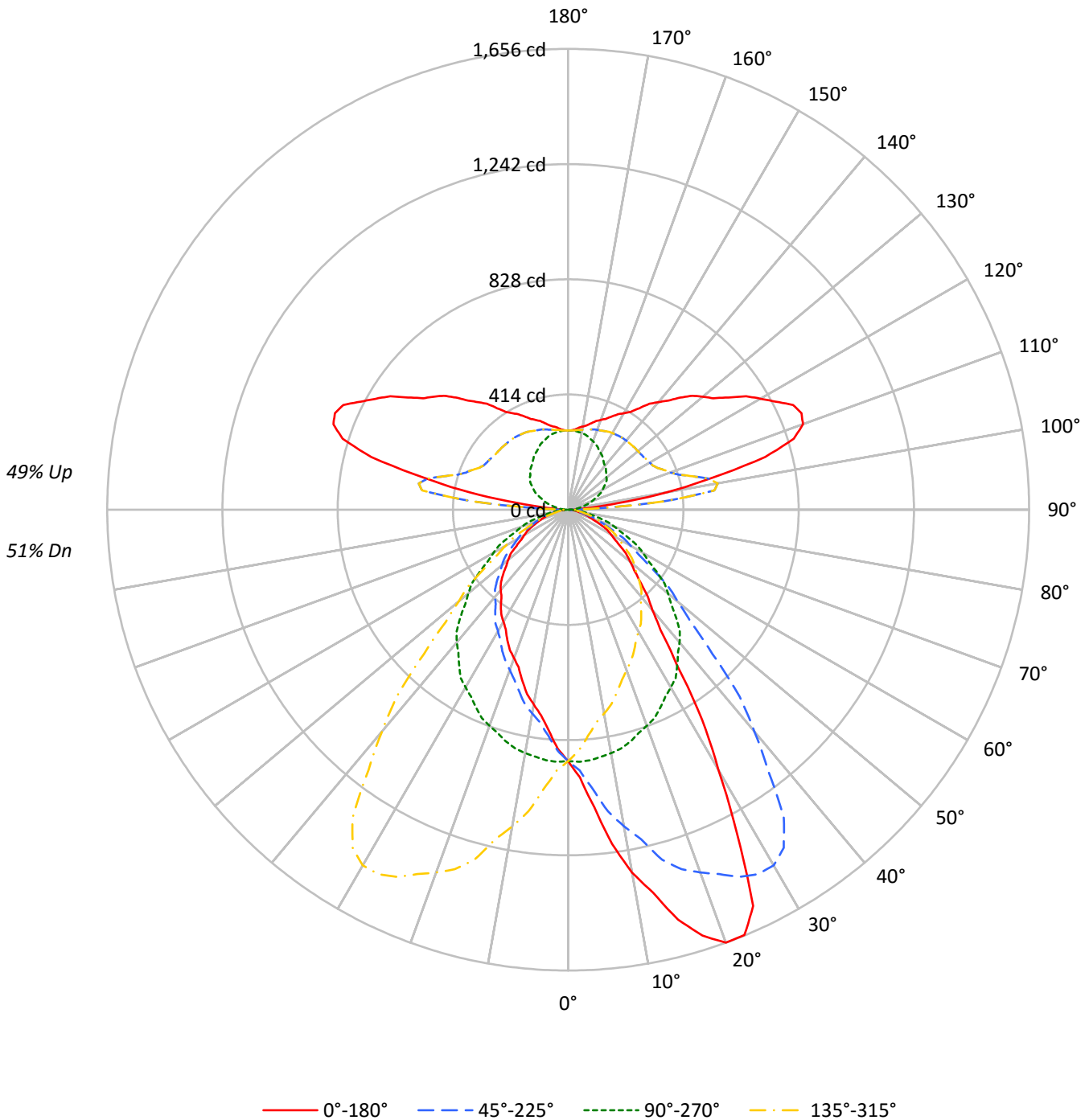
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84		70	70	70		57	57	57	51
1	99	95	91	88	91	88	84	82	75	72	70		63	61	60		52	51	50	44
2	90	83	77	73	83	77	72	68	66	62	59		56	53	51		46	44	43	38
3	83	74	67	61	76	69	62	57	59	54	50		50	46	44		41	39	37	33
4	76	66	58	52	70	61	54	49	53	47	43		45	41	38		37	35	32	29
5	70	59	51	45	65	55	48	43	47	42	38		40	36	33		34	31	29	25
6	65	53	45	39	60	49	42	37	43	37	33		37	33	29		31	28	25	23
7	60	48	40	35	55	45	38	33	39	34	30		34	29	26		28	25	23	20
8	56	44	36	31	51	41	34	29	36	30	26		31	27	23		26	23	21	18
9	52	40	33	28	48	37	31	26	33	27	24		28	24	21		24	21	19	17
10	49	37	30	25	45	34	28	24	30	25	21		26	22	19		23	19	17	15

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	2.0
10°-20°	277.6	6.3
20°-30°	436.1	9.9
30°-40°	455.0	10.4
40°-50°	389.4	8.9
50°-60°	296.8	6.8
60°-70°	190.2	4.3
70°-80°	91.5	2.1
80°-90°	26.4	0.6
90°-100°	158.3	3.6
100°-110°	448.4	10.2
110°-120°	441.1	10.0
120°-130°	351.8	8.0
130°-140°	277.4	6.3
140°-150°	207.0	4.7
150°-160°	144.3	3.3
160°-170°	84.8	1.9
170°-180°	27.6	0.6
0°-30°	802.6	18.3
0°-40°	1257.6	28.6
0°-60°	1943.7	44.2
0°-90°	2251.9	51.3
90°-120°	1047.8	23.9
90°-150°	1884.1	42.9
90°-180°	2141.0	48.7
0°-180°	4392.7	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°	17	1	17	1	17	9
95°	67	20	67	20	67	120
105°	733	67	733	67	733	723
115°	891	118	891	118	891	866
125°	703	164	703	164	703	637
135°	570	192	570	192	570	442
145°	445	219	445	219	445	283
155°	369	249	369	249	369	172
165°	322	272	322	272	322	92
175°	290	284	290	284	290	28
180°	285	285	285	285	285	



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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°	6.5	7.2	6.5	6.7	6.8	6.9	6.7	6.6	7.1	6.9	6.9
90°	16.7	17.3	16.7	16.2	16.7	15.6	14.9	14.4	13.8	14.4	12.6
92.5°	27.8	28.8	28.2	30.0	31.0	34.0	38.5	48.5	66.9	88.6	97.5
95°	66.9	69.1	73.1	78.4	89.3	110.0	140.6	207.3	277.0	341.5	304.2
97.5°	181.9	186.8	202.4	228.3	270.8	339.7	414.0	516.9	566.3	529.4	387.5
100°	361.1	360.6	383.0	425.1	483.2	565.0	632.5	679.1	658.9	545.4	368.6
102.5°	529.8	543.0	561.8	595.1	640.4	692.3	731.5	733.1	663.6	515.5	341.0
105°	732.7	735.6	754.0	775.9	802.3	817.4	806.4	748.8	628.4	463.1	307.0
107.5°	849.5	854.7	861.0	868.4	867.9	847.4	797.0	703.4	566.9	416.8	285.4
110°	897.4	898.6	899.7	895.1	879.0	838.7	766.1	660.0	528.2	390.5	277.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	907.1	906.9	902.5	888.2	858.7	806.9	725.5	617.2	494.5	373.0	272.5
115°	891.1	888.2	876.7	851.3	808.1	745.4	660.7	560.5	453.9	354.3	270.7
117.5°	840.1	836.3	819.6	790.6	745.6	681.9	605.8	519.3	429.4	343.2	271.8
120°	797.8	794.3	780.5	748.2	702.8	644.5	575.4	497.7	416.5	338.1	273.6
122.5°	758.1	753.8	738.5	709.5	669.0	615.0	551.0	480.6	405.9	334.9	276.8
125°	702.8	698.7	684.3	658.9	622.1	576.0	520.7	457.9	392.2	330.6	281.7
127.5°	657.1	653.4	640.4	618.7	585.9	544.0	494.1	438.1	380.3	328.5	287.2
130°	631.3	626.7	614.6	593.9	563.3	524.1	477.5	425.7	373.9	327.2	290.8
132.5°	605.9	602.7	592.0	571.3	542.6	505.2	461.8	414.1	367.8	326.7	293.7
135°	569.7	565.6	555.2	538.0	509.8	477.0	439.5	398.6	360.0	326.0	297.8
137.5°	531.3	528.7	519.9	502.4	478.7	450.2	418.0	384.5	353.3	324.8	300.5
140°	504.5	505.1	495.9	479.8	457.9	433.1	405.5	376.2	349.0	324.3	302.4
142.5°	479.7	480.3	472.0	457.7	439.0	417.5	393.5	368.3	345.4	323.4	303.8
145°	445.2	444.1	439.5	427.4	413.0	396.3	377.9	358.8	340.4	321.9	304.7
147.5°	416.9	416.5	412.0	403.8	392.9	381.1	366.2	351.1	335.6	319.8	304.7
150°	400.3	400.3	396.9	390.5	381.9	370.9	358.8	345.6	332.3	317.9	304.7
152.5°	386.5	386.5	384.5	378.5	371.7	362.6	351.9	340.5	328.7	315.7	303.4
155°	369.2	368.6	367.5	362.8	357.7	350.8	342.1	333.0	323.2	311.6	301.8
157.5°	353.5	353.6	352.6	349.2	344.7	339.3	332.5	324.9	316.9	308.0	299.8
160°	343.3	343.9	343.9	340.4	336.4	332.3	326.6	320.2	312.8	305.3	298.9
162.5°	334.1	334.7	334.7	331.6	329.0	325.5	320.1	314.8	308.6	302.6	297.1
165°	321.9	321.9	322.6	320.2	317.9	315.1	311.0	307.6	303.0	298.4	294.4
167.5°	310.4	310.4	311.0	309.4	308.4	306.3	304.0	301.3	297.6	294.2	291.5
170°	303.6	303.6	304.2	303.0	302.4	301.2	298.9	297.2	294.4	291.4	289.7
172.5°	297.1	297.6	298.6	297.4	297.3	296.6	294.8	293.6	291.1	289.1	288.3
175°	289.7	290.3	290.8	290.3	290.3	290.3	289.1	288.6	287.4	286.3	286.3
177.5°	285.5	285.5	286.4	285.9	286.4	286.4	285.9	285.5	285.0	284.6	285.0
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



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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°	7.2	6.5	6.8	6.6	7.3	7.2	8.8	10.1	10.7	9.7	10.0
90°	10.9	9.2	7.5	6.4	5.2	3.4	2.3	1.1	2.3	3.4	5.2
92.5°	73.1	48.4	33.3	24.7	19.9	15.5	10.6	7.2	10.6	15.5	19.9
95°	209.6	123.8	74.8	52.4	37.5	27.7	21.3	19.6	21.3	27.7	37.5
97.5°	230.0	133.3	86.5	62.2	47.5	39.0	34.0	33.4	34.0	39.0	47.5
100°	217.1	131.9	91.6	69.1	55.3	47.3	43.2	42.6	43.2	47.3	55.3
102.5°	206.1	133.7	97.6	77.0	64.5	57.0	53.3	52.3	53.3	57.0	64.5
105°	198.1	138.9	107.8	89.9	78.9	72.0	68.6	66.9	68.6	72.0	78.9
107.5°	197.5	148.2	121.0	104.4	94.1	87.4	84.0	82.2	84.0	87.4	94.1
110°	199.9	156.1	130.2	114.0	104.2	98.0	95.0	93.3	95.0	98.0	104.2



TEST NUMBER: P332278-840

CATALOG NUMBER: S123RDIP-S560D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	204.5	163.9	139.9	124.2	114.4	108.1	105.2	103.4	105.2	108.1	114.4
115°	212.0	176.8	154.9	139.4	129.6	123.8	120.4	118.1	120.4	123.8	129.6
117.5°	221.9	190.6	168.8	154.5	143.5	138.3	135.3	132.7	135.3	138.3	143.5
120°	229.2	199.2	178.5	164.2	153.2	147.4	144.6	142.9	144.6	147.4	153.2
122.5°	236.2	208.5	188.2	172.9	162.4	156.2	153.3	151.6	153.3	156.2	162.4
125°	247.1	221.8	201.6	186.0	175.1	168.7	165.3	164.2	165.3	168.7	175.1
127.5°	256.1	233.3	213.8	198.2	186.1	179.8	175.4	173.7	175.4	179.8	186.1
130°	262.1	240.1	221.2	205.6	193.5	186.6	181.5	179.8	181.5	186.6	193.5
132.5°	267.6	246.2	227.6	212.6	200.5	192.2	186.5	184.3	186.5	192.2	200.5
135°	274.8	255.2	237.3	221.8	209.6	201.1	194.7	192.4	194.7	201.1	209.6
137.5°	280.0	261.4	244.2	229.8	217.8	208.6	202.4	200.0	202.4	208.6	217.8
140°	282.9	265.5	248.8	234.4	222.9	213.7	207.9	205.1	207.9	213.7	222.9
142.5°	285.6	268.7	252.6	239.0	227.5	219.2	213.0	210.6	213.0	219.2	227.5
145°	288.6	273.1	258.0	244.8	235.0	226.4	221.2	219.4	221.2	226.4	235.0
147.5°	290.4	276.5	262.8	251.5	242.1	234.6	229.4	228.4	229.4	234.6	242.1
150°	290.8	278.8	265.5	255.2	247.1	239.6	235.0	234.4	235.0	239.6	247.1
152.5°	291.9	280.1	268.7	258.8	251.8	245.2	240.5	240.4	240.5	245.2	251.8
155°	292.1	282.9	273.1	265.0	258.6	252.9	249.4	249.4	249.4	252.9	258.6
157.5°	292.7	284.3	276.5	270.2	264.9	259.7	257.0	256.5	257.0	259.7	264.9
160°	292.7	285.7	278.8	273.1	269.0	264.4	262.1	262.1	262.1	264.4	269.0
162.5°	292.2	286.2	280.1	275.3	271.8	268.1	266.2	266.2	266.2	268.1	271.8
165°	290.8	286.8	282.3	278.2	275.9	273.1	271.9	272.5	271.9	273.1	275.9
167.5°	289.9	286.7	283.4	280.8	279.2	277.0	276.5	277.2	276.5	277.0	279.2
170°	288.6	286.3	283.4	282.3	281.0	279.3	278.8	279.9	278.8	279.3	281.0
172.5°	288.1	286.3	283.9	283.2	282.5	281.2	281.0	281.8	281.0	281.2	282.5
175°	286.8	285.7	284.6	284.0	284.0	282.9	283.4	284.0	283.4	282.9	284.0
177.5°	285.9	285.0	284.6	284.6	284.6	284.1	284.6	285.0	284.6	284.1	284.6
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332278-840

CATALOG NUMBER: S123RDIP-S560D585U840-4F0-1E-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°	9.9	11.1	11.7	12.4	13.0	13.1	13.3	13.4	13.8	13.9	14.1
90°	6.4	7.5	9.2	10.9	12.6	14.4	13.8	14.4	14.9	15.6	16.7
92.5°	24.7	33.3	48.4	73.1	97.5	88.6	66.9	48.5	38.5	34.0	31.0
95°	52.4	74.8	123.8	209.6	304.2	341.5	277.0	207.3	140.6	110.0	89.3
97.5°	62.2	86.5	133.3	230.0	387.5	529.4	566.3	516.9	414.0	339.7	270.8
100°	69.1	91.6	131.9	217.1	368.6	545.4	658.9	679.1	632.5	565.0	483.2
102.5°	77.0	97.6	133.7	206.1	341.0	515.5	663.6	733.1	731.5	692.3	640.4
105°	89.9	107.8	138.9	198.1	307.0	463.1	628.4	748.8	806.4	817.4	802.3
107.5°	104.4	121.0	148.2	197.5	285.4	416.8	566.9	703.4	797.0	847.4	867.9
110°	114.0	130.2	156.1	199.9	277.0	390.5	528.2	660.0	766.1	838.7	879.0



TEST NUMBER: P332278-840

CATALOG NUMBER: S123RDIP-S560D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.2	139.9	163.9	204.5	272.5	373.0	494.5	617.2	725.5	806.9	858.7
115°	139.4	154.9	176.8	212.0	270.7	354.3	453.9	560.5	660.7	745.4	808.1
117.5°	154.5	168.8	190.6	221.9	271.8	343.2	429.4	519.3	605.8	681.9	745.6
120°	164.2	178.5	199.2	229.2	273.6	338.1	416.5	497.7	575.4	644.5	702.8
122.5°	172.9	188.2	208.5	236.2	276.8	334.9	405.9	480.6	551.0	615.0	669.0
125°	186.0	201.6	221.8	247.1	281.7	330.6	392.2	457.9	520.7	576.0	622.1
127.5°	198.2	213.8	233.3	256.1	287.2	328.5	380.3	438.1	494.1	544.0	585.9
130°	205.6	221.2	240.1	262.1	290.8	327.2	373.9	425.7	477.5	524.1	563.3
132.5°	212.6	227.6	246.2	267.6	293.7	326.7	367.8	414.1	461.8	505.2	542.6
135°	221.8	237.3	255.2	274.8	297.8	326.0	360.0	398.6	439.5	477.0	509.8
137.5°	229.8	244.2	261.4	280.0	300.5	324.8	353.3	384.5	418.0	450.2	478.7
140°	234.4	248.8	265.5	282.9	302.4	324.3	349.0	376.2	405.5	433.1	457.9
142.5°	239.0	252.6	268.7	285.6	303.8	323.4	345.4	368.3	393.5	417.5	439.0
145°	244.8	258.0	273.1	288.6	304.7	321.9	340.4	358.8	377.9	396.3	413.0
147.5°	251.5	262.8	276.5	290.4	304.7	319.8	335.6	351.1	366.2	381.1	392.9
150°	255.2	265.5	278.8	290.8	304.7	317.9	332.3	345.6	358.8	370.9	381.9
152.5°	258.8	268.7	280.1	291.9	303.4	315.7	328.7	340.5	351.9	362.6	371.7
155°	265.0	273.1	282.9	292.1	301.8	311.6	323.2	333.0	342.1	350.8	357.7
157.5°	270.2	276.5	284.3	292.7	299.8	308.0	316.9	324.9	332.5	339.3	344.7
160°	273.1	278.8	285.7	292.7	298.9	305.3	312.8	320.2	326.6	332.3	336.4
162.5°	275.3	280.1	286.2	292.2	297.1	302.6	308.6	314.8	320.1	325.5	329.0
165°	278.2	282.3	286.8	290.8	294.4	298.4	303.0	307.6	311.0	315.1	317.9
167.5°	280.8	283.4	286.7	289.9	291.5	294.2	297.6	301.3	304.0	306.3	308.4
170°	282.3	283.4	286.3	288.6	289.7	291.4	294.4	297.2	298.9	301.2	302.4
172.5°	283.2	283.9	286.3	288.1	288.3	289.1	291.1	293.6	294.8	296.6	297.3
175°	284.0	284.6	285.7	286.8	286.3	286.3	287.4	288.6	289.1	290.3	290.3
177.5°	284.6	284.6	285.0	285.9	285.0	284.6	285.0	285.5	285.9	286.4	286.4
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332278-840

CATALOG NUMBER: S123RDIP-S560D585U840-4F0-1E-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°	14.6	14.1	14.2	14.4	14.2	14.1	14.6	14.1	13.9	13.8	13.4
90°	16.2	16.7	17.3	16.7	17.3	16.7	16.2	16.7	15.6	14.9	14.4
92.5°	30.0	28.2	28.8	27.8	28.8	28.2	30.0	31.0	34.0	38.5	48.5
95°	78.4	73.1	69.1	66.9	69.1	73.1	78.4	89.3	110.0	140.6	207.3
97.5°	228.3	202.4	186.8	181.9	186.8	202.4	228.3	270.8	339.7	414.0	516.9
100°	425.1	383.0	360.6	361.1	360.6	383.0	425.1	483.2	565.0	632.5	679.1
102.5°	595.1	561.8	543.0	529.8	543.0	561.8	595.1	640.4	692.3	731.5	733.1
105°	775.9	754.0	735.6	732.7	735.6	754.0	775.9	802.3	817.4	806.4	748.8
107.5°	868.4	861.0	854.7	849.5	854.7	861.0	868.4	867.9	847.4	797.0	703.4
110°	895.1	899.7	898.6	897.4	898.6	899.7	895.1	879.0	838.7	766.1	660.0



TEST NUMBER: P332278-840

CATALOG NUMBER: S123RDIP-S560D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	888.2	902.5	906.9	907.1	906.9	902.5	888.2	858.7	806.9	725.5	617.2
115°	851.3	876.7	888.2	891.1	888.2	876.7	851.3	808.1	745.4	660.7	560.5
117.5°	790.6	819.6	836.3	840.1	836.3	819.6	790.6	745.6	681.9	605.8	519.3
120°	748.2	780.5	794.3	797.8	794.3	780.5	748.2	702.8	644.5	575.4	497.7
122.5°	709.5	738.5	753.8	758.1	753.8	738.5	709.5	669.0	615.0	551.0	480.6
125°	658.9	684.3	698.7	702.8	698.7	684.3	658.9	622.1	576.0	520.7	457.9
127.5°	618.7	640.4	653.4	657.1	653.4	640.4	618.7	585.9	544.0	494.1	438.1
130°	593.9	614.6	626.7	631.3	626.7	614.6	593.9	563.3	524.1	477.5	425.7
132.5°	571.3	592.0	602.7	605.9	602.7	592.0	571.3	542.6	505.2	461.8	414.1
135°	538.0	555.2	565.6	569.7	565.6	555.2	538.0	509.8	477.0	439.5	398.6
137.5°	502.4	519.9	528.7	531.3	528.7	519.9	502.4	478.7	450.2	418.0	384.5
140°	479.8	495.9	505.1	504.5	505.1	495.9	479.8	457.9	433.1	405.5	376.2
142.5°	457.7	472.0	480.3	479.7	480.3	472.0	457.7	439.0	417.5	393.5	368.3
145°	427.4	439.5	444.1	445.2	444.1	439.5	427.4	413.0	396.3	377.9	358.8
147.5°	403.8	412.0	416.5	416.9	416.5	412.0	403.8	392.9	381.1	366.2	351.1
150°	390.5	396.9	400.3	400.3	400.3	396.9	390.5	381.9	370.9	358.8	345.6
152.5°	378.5	384.5	386.5	386.5	386.5	384.5	378.5	371.7	362.6	351.9	340.5
155°	362.8	367.5	368.6	369.2	368.6	367.5	362.8	357.7	350.8	342.1	333.0
157.5°	349.2	352.6	353.6	353.5	353.6	352.6	349.2	344.7	339.3	332.5	324.9
160°	340.4	343.9	343.9	343.3	343.9	343.9	340.4	336.4	332.3	326.6	320.2
162.5°	331.6	334.7	334.7	334.1	334.7	334.7	331.6	329.0	325.5	320.1	314.8
165°	320.2	322.6	321.9	321.9	321.9	322.6	320.2	317.9	315.1	311.0	307.6
167.5°	309.4	311.0	310.4	310.4	310.4	311.0	309.4	308.4	306.3	304.0	301.3
170°	303.0	304.2	303.6	303.6	303.6	304.2	303.0	302.4	301.2	298.9	297.2
172.5°	297.4	298.6	297.6	297.1	297.6	298.6	297.4	297.3	296.6	294.8	293.6
175°	290.3	290.8	290.3	289.7	290.3	290.8	290.3	290.3	290.3	289.1	288.6
177.5°	285.9	286.4	285.5	285.5	285.5	286.4	285.9	286.4	286.4	285.9	285.5
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332278-840

CATALOG NUMBER: S123RDIP-S560D585U840-4F0-1E-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°	13.3	13.1	13.0	12.4	11.7	11.1	9.9	10.0	9.7	10.7	10.1
90°	13.8	14.4	12.6	10.9	9.2	7.5	6.4	5.2	3.4	2.3	1.1
92.5°	66.9	88.6	97.5	73.1	48.4	33.3	24.7	19.9	15.5	10.6	7.2
95°	277.0	341.5	304.2	209.6	123.8	74.8	52.4	37.5	27.7	21.3	19.6
97.5°	566.3	529.4	387.5	230.0	133.3	86.5	62.2	47.5	39.0	34.0	33.4
100°	658.9	545.4	368.6	217.1	131.9	91.6	69.1	55.3	47.3	43.2	42.6
102.5°	663.6	515.5	341.0	206.1	133.7	97.6	77.0	64.5	57.0	53.3	52.3
105°	628.4	463.1	307.0	198.1	138.9	107.8	89.9	78.9	72.0	68.6	66.9
107.5°	566.9	416.8	285.4	197.5	148.2	121.0	104.4	94.1	87.4	84.0	82.2
110°	528.2	390.5	277.0	199.9	156.1	130.2	114.0	104.2	98.0	95.0	93.3



TEST NUMBER: P332278-840

CATALOG NUMBER: S123RDIP-S560D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	494.5	373.0	272.5	204.5	163.9	139.9	124.2	114.4	108.1	105.2	103.4
115°	453.9	354.3	270.7	212.0	176.8	154.9	139.4	129.6	123.8	120.4	118.1
117.5°	429.4	343.2	271.8	221.9	190.6	168.8	154.5	143.5	138.3	135.3	132.7
120°	416.5	338.1	273.6	229.2	199.2	178.5	164.2	153.2	147.4	144.6	142.9
122.5°	405.9	334.9	276.8	236.2	208.5	188.2	172.9	162.4	156.2	153.3	151.6
125°	392.2	330.6	281.7	247.1	221.8	201.6	186.0	175.1	168.7	165.3	164.2
127.5°	380.3	328.5	287.2	256.1	233.3	213.8	198.2	186.1	179.8	175.4	173.7
130°	373.9	327.2	290.8	262.1	240.1	221.2	205.6	193.5	186.6	181.5	179.8
132.5°	367.8	326.7	293.7	267.6	246.2	227.6	212.6	200.5	192.2	186.5	184.3
135°	360.0	326.0	297.8	274.8	255.2	237.3	221.8	209.6	201.1	194.7	192.4
137.5°	353.3	324.8	300.5	280.0	261.4	244.2	229.8	217.8	208.6	202.4	200.0
140°	349.0	324.3	302.4	282.9	265.5	248.8	234.4	222.9	213.7	207.9	205.1
142.5°	345.4	323.4	303.8	285.6	268.7	252.6	239.0	227.5	219.2	213.0	210.6
145°	340.4	321.9	304.7	288.6	273.1	258.0	244.8	235.0	226.4	221.2	219.4
147.5°	335.6	319.8	304.7	290.4	276.5	262.8	251.5	242.1	234.6	229.4	228.4
150°	332.3	317.9	304.7	290.8	278.8	265.5	255.2	247.1	239.6	235.0	234.4
152.5°	328.7	315.7	303.4	291.9	280.1	268.7	258.8	251.8	245.2	240.5	240.4
155°	323.2	311.6	301.8	292.1	282.9	273.1	265.0	258.6	252.9	249.4	249.4
157.5°	316.9	308.0	299.8	292.7	284.3	276.5	270.2	264.9	259.7	257.0	256.5
160°	312.8	305.3	298.9	292.7	285.7	278.8	273.1	269.0	264.4	262.1	262.1
162.5°	308.6	302.6	297.1	292.2	286.2	280.1	275.3	271.8	268.1	266.2	266.2
165°	303.0	298.4	294.4	290.8	286.8	282.3	278.2	275.9	273.1	271.9	272.5
167.5°	297.6	294.2	291.5	289.9	286.7	283.4	280.8	279.2	277.0	276.5	277.2
170°	294.4	291.4	289.7	288.6	286.3	283.4	282.3	281.0	279.3	278.8	279.9
172.5°	291.1	289.1	288.3	288.1	286.3	283.9	283.2	282.5	281.2	281.0	281.8
175°	287.4	286.3	286.3	286.8	285.7	284.6	284.0	284.0	282.9	283.4	284.0
177.5°	285.0	284.6	285.0	285.9	285.0	284.6	284.6	284.6	284.1	284.6	285.0
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332278-840

CATALOG NUMBER: S123RDIP-S560D585U840-4F0-1E-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°	8.8	7.2	7.3	6.6	6.8	6.5	7.2	6.9	6.9	7.1	6.6
90°	2.3	3.4	5.2	6.4	7.5	9.2	10.9	12.6	14.4	13.8	14.4
92.5°	10.6	15.5	19.9	24.7	33.3	48.4	73.1	97.5	88.6	66.9	48.5
95°	21.3	27.7	37.5	52.4	74.8	123.8	209.6	304.2	341.5	277.0	207.3
97.5°	34.0	39.0	47.5	62.2	86.5	133.3	230.0	387.5	529.4	566.3	516.9
100°	43.2	47.3	55.3	69.1	91.6	131.9	217.1	368.6	545.4	658.9	679.1
102.5°	53.3	57.0	64.5	77.0	97.6	133.7	206.1	341.0	515.5	663.6	733.1
105°	68.6	72.0	78.9	89.9	107.8	138.9	198.1	307.0	463.1	628.4	748.8
107.5°	84.0	87.4	94.1	104.4	121.0	148.2	197.5	285.4	416.8	566.9	703.4
110°	95.0	98.0	104.2	114.0	130.2	156.1	199.9	277.0	390.5	528.2	660.0



TEST NUMBER: P332278-840

CATALOG NUMBER: S123RDIP-S560D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	105.2	108.1	114.4	124.2	139.9	163.9	204.5	272.5	373.0	494.5	617.2
115°	120.4	123.8	129.6	139.4	154.9	176.8	212.0	270.7	354.3	453.9	560.5
117.5°	135.3	138.3	143.5	154.5	168.8	190.6	221.9	271.8	343.2	429.4	519.3
120°	144.6	147.4	153.2	164.2	178.5	199.2	229.2	273.6	338.1	416.5	497.7
122.5°	153.3	156.2	162.4	172.9	188.2	208.5	236.2	276.8	334.9	405.9	480.6
125°	165.3	168.7	175.1	186.0	201.6	221.8	247.1	281.7	330.6	392.2	457.9
127.5°	175.4	179.8	186.1	198.2	213.8	233.3	256.1	287.2	328.5	380.3	438.1
130°	181.5	186.6	193.5	205.6	221.2	240.1	262.1	290.8	327.2	373.9	425.7
132.5°	186.5	192.2	200.5	212.6	227.6	246.2	267.6	293.7	326.7	367.8	414.1
135°	194.7	201.1	209.6	221.8	237.3	255.2	274.8	297.8	326.0	360.0	398.6
137.5°	202.4	208.6	217.8	229.8	244.2	261.4	280.0	300.5	324.8	353.3	384.5
140°	207.9	213.7	222.9	234.4	248.8	265.5	282.9	302.4	324.3	349.0	376.2
142.5°	213.0	219.2	227.5	239.0	252.6	268.7	285.6	303.8	323.4	345.4	368.3
145°	221.2	226.4	235.0	244.8	258.0	273.1	288.6	304.7	321.9	340.4	358.8
147.5°	229.4	234.6	242.1	251.5	262.8	276.5	290.4	304.7	319.8	335.6	351.1
150°	235.0	239.6	247.1	255.2	265.5	278.8	290.8	304.7	317.9	332.3	345.6
152.5°	240.5	245.2	251.8	258.8	268.7	280.1	291.9	303.4	315.7	328.7	340.5
155°	249.4	252.9	258.6	265.0	273.1	282.9	292.1	301.8	311.6	323.2	333.0
157.5°	257.0	259.7	264.9	270.2	276.5	284.3	292.7	299.8	308.0	316.9	324.9
160°	262.1	264.4	269.0	273.1	278.8	285.7	292.7	298.9	305.3	312.8	320.2
162.5°	266.2	268.1	271.8	275.3	280.1	286.2	292.2	297.1	302.6	308.6	314.8
165°	271.9	273.1	275.9	278.2	282.3	286.8	290.8	294.4	298.4	303.0	307.6
167.5°	276.5	277.0	279.2	280.8	283.4	286.7	289.9	291.5	294.2	297.6	301.3
170°	278.8	279.3	281.0	282.3	283.4	286.3	288.6	289.7	291.4	294.4	297.2
172.5°	281.0	281.2	282.5	283.2	283.9	286.3	288.1	288.3	289.1	291.1	293.6
175°	283.4	282.9	284.0	284.0	284.6	285.7	286.8	286.3	286.3	287.4	288.6
177.5°	284.6	284.1	284.6	284.6	284.6	285.0	285.9	285.0	284.6	285.0	285.5
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



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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°	6.7	6.9	6.8	6.7	6.5	7.2	6.5
90°	14.9	15.6	16.7	16.2	16.7	17.3	16.7
92.5°	38.5	34.0	31.0	30.0	28.2	28.8	27.8
95°	140.6	110.0	89.3	78.4	73.1	69.1	66.9
97.5°	414.0	339.7	270.8	228.3	202.4	186.8	181.9
100°	632.5	565.0	483.2	425.1	383.0	360.6	361.1
102.5°	731.5	692.3	640.4	595.1	561.8	543.0	529.8
105°	806.4	817.4	802.3	775.9	754.0	735.6	732.7
107.5°	797.0	847.4	867.9	868.4	861.0	854.7	849.5
110°	766.1	838.7	879.0	895.1	899.7	898.6	897.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	725.5	806.9	858.7	888.2	902.5	906.9	907.1
115°	660.7	745.4	808.1	851.3	876.7	888.2	891.1
117.5°	605.8	681.9	745.6	790.6	819.6	836.3	840.1
120°	575.4	644.5	702.8	748.2	780.5	794.3	797.8
122.5°	551.0	615.0	669.0	709.5	738.5	753.8	758.1
125°	520.7	576.0	622.1	658.9	684.3	698.7	702.8
127.5°	494.1	544.0	585.9	618.7	640.4	653.4	657.1
130°	477.5	524.1	563.3	593.9	614.6	626.7	631.3
132.5°	461.8	505.2	542.6	571.3	592.0	602.7	605.9
135°	439.5	477.0	509.8	538.0	555.2	565.6	569.7
137.5°	418.0	450.2	478.7	502.4	519.9	528.7	531.3
140°	405.5	433.1	457.9	479.8	495.9	505.1	504.5
142.5°	393.5	417.5	439.0	457.7	472.0	480.3	479.7
145°	377.9	396.3	413.0	427.4	439.5	444.1	445.2
147.5°	366.2	381.1	392.9	403.8	412.0	416.5	416.9
150°	358.8	370.9	381.9	390.5	396.9	400.3	400.3
152.5°	351.9	362.6	371.7	378.5	384.5	386.5	386.5
155°	342.1	350.8	357.7	362.8	367.5	368.6	369.2
157.5°	332.5	339.3	344.7	349.2	352.6	353.6	353.5
160°	326.6	332.3	336.4	340.4	343.9	343.9	343.3
162.5°	320.1	325.5	329.0	331.6	334.7	334.7	334.1
165°	311.0	315.1	317.9	320.2	322.6	321.9	321.9
167.5°	304.0	306.3	308.4	309.4	311.0	310.4	310.4
170°	298.9	301.2	302.4	303.0	304.2	303.6	303.6
172.5°	294.8	296.6	297.3	297.4	298.6	297.6	297.1
175°	289.1	290.3	290.3	290.3	290.8	290.3	289.7
177.5°	285.9	286.4	286.4	285.9	286.4	285.5	285.5
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6

(END OF REPORT)