

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: P332276-830

Luminaire Tested: **S123RDIP-S560D585U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332276-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S560D585U830-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 585 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4308.4 lumens
Efficiency: N/A
Efficacy: 131.4 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: General Diffuse

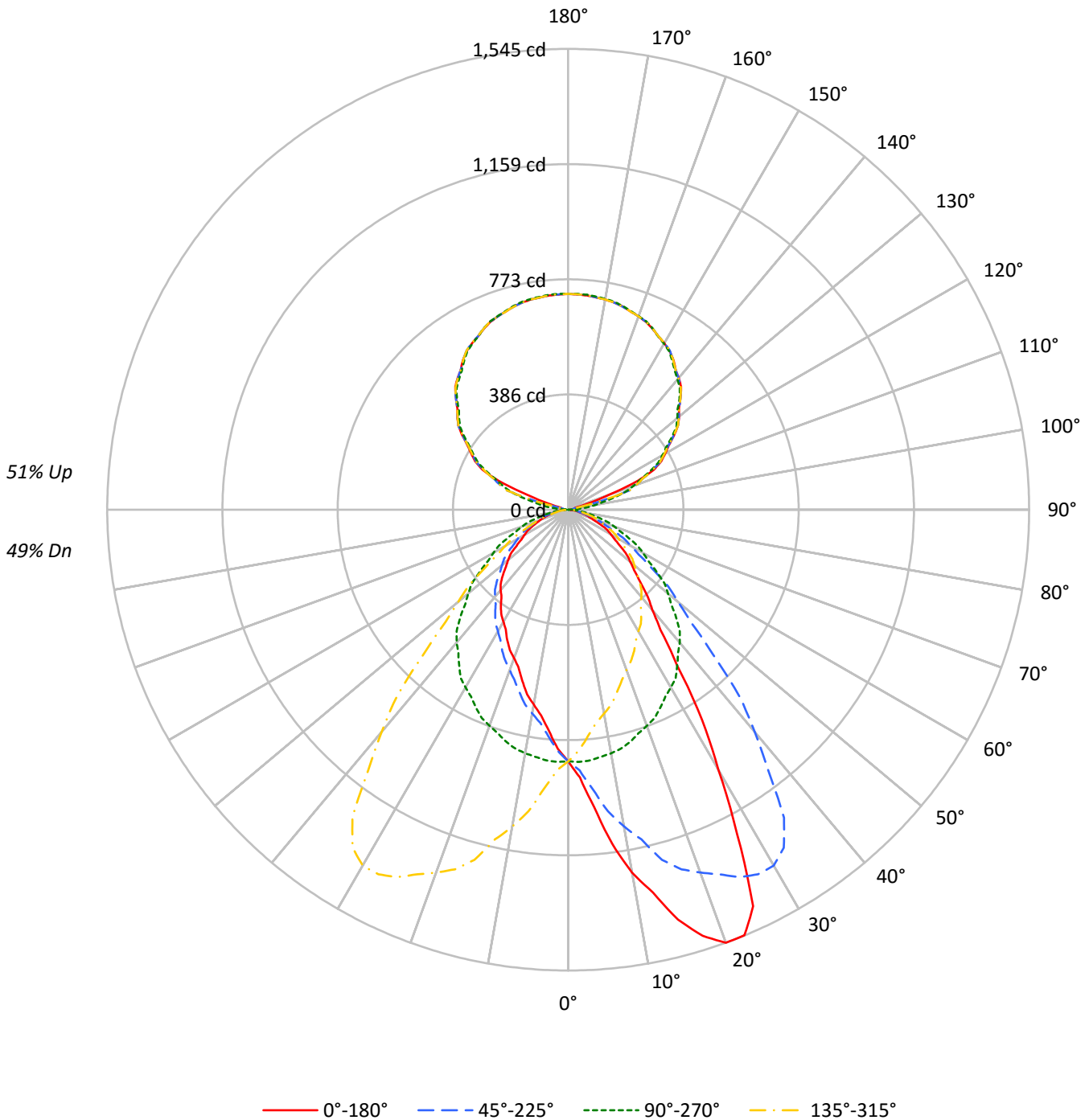
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

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	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	87	90	87	84	81	73	71	69	61	59	58	49	48	48	42
2	90	83	77	72	83	77	71	67	65	61	58	54	52	49	44	42	41	36
3	82	73	66	61	76	68	62	57	58	53	49	48	45	42	40	37	35	31
4	75	65	58	52	69	60	54	49	52	47	43	43	40	37	36	33	31	27
5	69	58	50	45	64	54	47	42	46	41	37	39	35	32	33	30	27	24
6	64	52	45	39	59	49	42	37	42	37	33	36	32	28	30	27	24	21
7	59	48	40	34	55	44	37	33	38	33	29	33	28	25	27	24	22	19
8	55	43	36	31	51	40	34	29	35	30	26	30	26	23	25	22	20	17
9	51	40	32	27	48	37	30	26	32	27	23	28	23	21	23	20	18	16
10	48	36	29	25	44	34	28	23	30	25	21	26	21	19	22	19	16	14

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



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.9
10°-20°	259.1	6.0
20°-30°	407.0	9.4
30°-40°	424.7	9.9
40°-50°	363.4	8.4
50°-60°	277.0	6.4
60°-70°	177.6	4.1
70°-80°	85.4	2.0
80°-90°	24.6	0.6
90°-100°	26.3	0.6
100°-110°	125.4	2.9
110°-120°	301.2	7.0
120°-130°	383.5	8.9
130°-140°	409.8	9.5
140°-150°	383.2	8.9
150°-160°	309.1	7.2
160°-170°	199.5	4.6
170°-180°	68.7	1.6
0°-30°	749.1	17.4
0°-40°	1173.7	27.2
0°-60°	1814.2	42.1
0°-90°	2101.8	48.8
90°-120°	452.8	10.5
90°-150°	1629.3	37.8
90°-180°	2207.0	51.2
0°-180°	4308.4	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°	16	1	16	1	16	8
95°	20	33	20	33	20	17
105°	24	160	24	160	24	54
115°	316	300	316	300	316	292
125°	432	424	432	424	432	386
135°	533	527	533	527	533	411
145°	614	608	614	608	614	384
155°	669	670	669	670	669	309
165°	705	707	705	707	705	199
175°	721	724	721	724	721	69
180°	724	724	724	724	724	



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

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°	6.1	6.6	6.0	6.2	6.2	6.4	6.3	6.2	6.7	6.3	6.3
90°	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9	13.4	12.9	11.3
92.5°	17.8	17.7	17.5	17.4	17.2	16.8	16.0	15.3	14.5	13.8	12.6
95°	20.5	20.5	20.5	20.5	20.5	20.0	19.1	18.4	17.5	16.7	15.4
97.5°	22.1	22.1	21.9	21.8	21.7	21.1	20.2	19.2	18.3	17.3	25.9
100°	22.6	22.4	22.3	22.2	22.1	21.6	20.6	19.6	18.7	17.7	36.4
102.5°	23.0	22.8	22.6	22.3	22.1	23.6	26.5	29.4	32.4	35.3	55.7
105°	23.7	23.4	23.2	22.9	22.7	33.2	54.3	75.4	96.6	117.7	128.5
107.5°	74.3	90.2	106.1	122.1	138.1	153.7	169.3	184.7	200.3	215.7	214.1
110°	147.8	164.9	182.0	199.1	216.1	226.7	230.6	234.6	238.5	242.4	241.1



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	253.6	257.2	260.8	264.5	268.1	269.8	269.8	269.7	269.7	269.6	268.2
115°	316.1	315.7	315.2	314.6	314.1	313.4	312.2	310.9	309.8	308.6	307.5
117.5°	351.2	351.1	351.0	350.9	350.8	350.2	349.3	348.4	347.4	346.4	345.9
120°	375.2	375.2	375.2	375.2	375.2	374.8	373.8	372.9	371.9	370.9	370.6
122.5°	398.9	398.8	398.7	398.6	398.5	398.1	397.5	396.8	396.2	395.5	395.0
125°	432.3	432.0	431.8	431.5	431.3	431.0	430.7	430.6	430.3	430.1	429.6
127.5°	464.3	464.5	464.8	465.0	465.2	465.1	464.8	464.4	464.0	463.6	463.1
130°	484.9	485.1	485.4	485.6	485.9	485.7	485.2	484.7	484.3	483.8	483.3
132.5°	503.8	504.2	504.4	504.8	505.2	505.1	504.6	504.2	503.7	503.2	502.8
135°	532.7	533.1	533.5	533.9	534.1	534.1	533.9	533.5	533.1	532.7	532.3
137.5°	560.0	560.2	560.4	560.6	560.9	560.7	560.2	559.6	559.0	558.5	558.2
140°	576.3	576.6	576.7	577.0	577.2	577.1	576.6	576.2	575.7	575.2	574.9
142.5°	591.4	591.6	592.0	592.4	592.7	592.7	592.3	591.9	591.5	591.2	590.8
145°	614.4	614.4	614.4	614.4	614.4	614.3	614.1	613.9	613.6	613.4	613.1
147.5°	631.7	632.3	632.7	633.3	633.9	634.0	633.8	633.6	633.3	633.1	632.8
150°	644.6	644.9	645.3	645.6	646.0	646.0	645.8	645.5	645.4	645.1	644.9
152.5°	654.9	655.4	656.0	656.6	657.0	657.1	656.7	656.3	655.8	655.4	655.3
155°	669.3	670.1	670.7	671.5	672.1	672.2	671.7	671.0	670.4	669.9	669.7
157.5°	681.5	682.4	683.3	684.2	685.1	685.3	684.6	683.8	683.2	682.4	682.5
160°	689.2	690.0	690.9	691.7	692.5	692.6	691.8	691.2	690.4	689.8	689.8
162.5°	696.5	697.2	698.0	698.7	699.5	699.5	698.6	697.8	697.0	696.2	696.3
165°	705.3	706.2	707.0	707.8	708.7	708.6	707.7	706.7	705.8	704.7	704.9
167.5°	711.6	712.7	713.6	714.5	715.5	715.5	714.5	713.6	712.7	711.6	711.6
170°	715.5	716.5	717.5	718.4	719.3	719.3	718.4	717.5	716.5	715.5	715.5
172.5°	717.7	718.7	719.8	720.9	721.9	721.9	721.0	720.0	719.1	718.1	718.0
175°	720.9	721.9	722.8	723.8	724.7	724.8	724.0	723.1	722.3	721.4	721.3
177.5°	721.9	722.8	723.8	724.7	725.7	725.8	725.0	724.2	723.5	722.7	722.6
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

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°	6.6	5.9	6.2	5.9	6.6	6.7	8.1	9.3	9.9	9.0	9.2
90°	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6	1.7	2.9	4.1
92.5°	11.4	10.3	9.0	8.7	9.0	9.3	9.7	10.0	9.7	9.3	9.0
95°	14.0	12.7	11.4	13.2	18.1	23.0	27.9	32.8	27.9	23.0	18.1
97.5°	34.5	43.1	51.7	57.1	59.3	61.5	63.7	65.9	63.7	61.5	59.3
100°	55.0	73.6	92.3	100.4	98.0	95.7	93.2	90.9	93.2	95.7	98.0
102.5°	76.1	96.4	116.8	126.1	124.4	122.7	120.9	119.2	120.9	122.7	124.4
105°	139.2	150.0	160.7	165.4	164.1	162.9	161.6	160.2	161.6	162.9	164.1
107.5°	212.4	210.7	209.0	207.6	206.6	205.6	204.4	203.4	204.4	205.6	206.6
110°	239.8	238.5	237.2	236.0	235.1	234.1	233.2	232.2	233.2	234.1	235.1



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	266.9	265.6	264.3	263.2	262.3	261.5	260.6	259.8	260.6	261.5	262.3
115°	306.4	305.4	304.3	303.4	302.7	301.9	301.2	300.5	301.2	301.9	302.7
117.5°	345.3	344.8	344.2	343.5	342.6	341.8	340.8	340.0	340.8	341.8	342.6
120°	370.2	369.9	369.5	368.8	367.7	366.6	365.5	364.5	365.5	366.6	367.7
122.5°	394.5	394.1	393.6	392.9	392.1	391.2	390.3	389.5	390.3	391.2	392.1
125°	429.1	428.7	428.2	427.4	426.5	425.6	424.6	423.6	424.6	425.6	426.5
127.5°	462.5	461.8	461.3	460.5	459.6	458.6	457.7	456.8	457.7	458.6	459.6
130°	482.9	482.4	481.9	481.2	480.2	479.3	478.3	477.4	478.3	479.3	480.2
132.5°	502.4	502.0	501.6	501.0	500.0	499.1	498.1	497.2	498.1	499.1	500.0
135°	531.8	531.3	530.8	530.3	529.5	528.8	528.1	527.4	528.1	528.8	529.5
137.5°	557.9	557.6	557.4	556.8	555.9	555.0	554.1	553.2	554.1	555.0	555.9
140°	574.5	574.1	573.8	573.3	572.5	571.8	571.1	570.3	571.1	571.8	572.5
142.5°	590.4	590.0	589.7	589.2	588.4	587.8	587.0	586.3	587.0	587.8	588.4
145°	612.9	612.7	612.5	611.9	611.1	610.2	609.4	608.5	609.4	610.2	611.1
147.5°	632.5	632.4	632.1	631.7	631.1	630.7	630.1	629.5	630.1	630.7	631.1
150°	644.6	644.4	644.1	643.9	643.5	643.1	642.8	642.4	642.8	643.1	643.5
152.5°	655.2	655.0	654.9	654.7	654.5	654.3	654.2	654.0	654.2	654.3	654.5
155°	669.6	669.5	669.4	669.4	669.7	669.9	670.1	670.3	670.1	669.9	669.7
157.5°	682.7	682.8	682.9	683.0	683.0	683.0	683.1	683.1	683.1	683.0	683.0
160°	689.9	690.0	690.2	690.3	690.4	690.6	690.7	690.8	690.7	690.6	690.4
162.5°	696.4	696.5	696.6	696.8	697.2	697.5	697.8	698.1	697.8	697.5	697.2
165°	705.0	705.1	705.2	705.5	705.9	706.2	706.5	706.9	706.5	706.2	705.9
167.5°	711.6	711.6	711.6	711.9	712.4	712.8	713.3	713.8	713.3	712.8	712.4
170°	715.5	715.5	715.5	715.8	716.2	716.7	717.2	717.7	717.2	716.7	716.2
172.5°	717.9	717.8	717.7	717.9	718.5	719.1	719.7	720.3	719.7	719.1	718.5
175°	721.2	721.0	721.0	721.2	721.8	722.4	723.0	723.6	723.0	722.4	721.8
177.5°	722.6	722.5	722.4	722.6	723.0	723.5	724.0	724.4	724.0	723.5	723.0
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

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°	9.1	10.3	10.9	11.5	12.1	12.1	12.5	12.6	13.0	13.1	13.1
90°	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9	14.3	14.8	15.2
92.5°	8.7	9.0	10.3	11.4	12.6	13.8	14.5	15.3	16.0	16.8	17.2
95°	13.2	11.4	12.7	14.0	15.4	16.7	17.5	18.4	19.1	20.0	20.5
97.5°	57.1	51.7	43.1	34.5	25.9	17.3	18.3	19.2	20.2	21.1	21.7
100°	100.4	92.3	73.6	55.0	36.4	17.7	18.7	19.6	20.6	21.6	22.1
102.5°	126.1	116.8	96.4	76.1	55.7	35.3	32.4	29.4	26.5	23.6	22.1
105°	165.4	160.7	150.0	139.2	128.5	117.7	96.6	75.4	54.3	33.2	22.7
107.5°	207.6	209.0	210.7	212.4	214.1	215.7	200.3	184.7	169.3	153.7	138.1
110°	236.0	237.2	238.5	239.8	241.1	242.4	238.5	234.6	230.6	226.7	216.1



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	263.2	264.3	265.6	266.9	268.2	269.6	269.7	269.7	269.8	269.8	268.1
115°	303.4	304.3	305.4	306.4	307.5	308.6	309.8	310.9	312.2	313.4	314.1
117.5°	343.5	344.2	344.8	345.3	345.9	346.4	347.4	348.4	349.3	350.2	350.8
120°	368.8	369.5	369.9	370.2	370.6	370.9	371.9	372.9	373.8	374.8	375.2
122.5°	392.9	393.6	394.1	394.5	395.0	395.5	396.2	396.8	397.5	398.1	398.5
125°	427.4	428.2	428.7	429.1	429.6	430.1	430.3	430.6	430.7	431.0	431.3
127.5°	460.5	461.3	461.8	462.5	463.1	463.6	464.0	464.4	464.8	465.1	465.2
130°	481.2	481.9	482.4	482.9	483.3	483.8	484.3	484.7	485.2	485.7	485.9
132.5°	501.0	501.6	502.0	502.4	502.8	503.2	503.7	504.2	504.6	505.1	505.2
135°	530.3	530.8	531.3	531.8	532.3	532.7	533.1	533.5	533.9	534.1	534.1
137.5°	556.8	557.4	557.6	557.9	558.2	558.5	559.0	559.6	560.2	560.7	560.9
140°	573.3	573.8	574.1	574.5	574.9	575.2	575.7	576.2	576.6	577.1	577.2
142.5°	589.2	589.7	590.0	590.4	590.8	591.2	591.5	591.9	592.3	592.7	592.7
145°	611.9	612.5	612.7	612.9	613.1	613.4	613.6	613.9	614.1	614.3	614.4
147.5°	631.7	632.1	632.4	632.5	632.8	633.1	633.3	633.6	633.8	634.0	633.9
150°	643.9	644.1	644.4	644.6	644.9	645.1	645.4	645.5	645.8	646.0	646.0
152.5°	654.7	654.9	655.0	655.2	655.3	655.4	655.8	656.3	656.7	657.1	657.0
155°	669.4	669.4	669.5	669.6	669.7	669.9	670.4	671.0	671.7	672.2	672.1
157.5°	683.0	682.9	682.8	682.7	682.5	682.4	683.2	683.8	684.6	685.3	685.1
160°	690.3	690.2	690.0	689.9	689.8	689.8	690.4	691.2	691.8	692.6	692.5
162.5°	696.8	696.6	696.5	696.4	696.3	696.2	697.0	697.8	698.6	699.5	699.5
165°	705.5	705.2	705.1	705.0	704.9	704.7	705.8	706.7	707.7	708.6	708.7
167.5°	711.9	711.6	711.6	711.6	711.6	711.6	712.7	713.6	714.5	715.5	715.5
170°	715.8	715.5	715.5	715.5	715.5	715.5	716.5	717.5	718.4	719.3	719.3
172.5°	717.9	717.7	717.8	717.9	718.0	718.1	719.1	720.0	721.0	721.9	721.9
175°	721.2	721.0	721.0	721.2	721.3	721.4	722.3	723.1	724.0	724.8	724.7
177.5°	722.6	722.4	722.5	722.6	722.6	722.7	723.5	724.2	725.0	725.8	725.7
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

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°	13.8	13.2	13.3	13.7	13.3	13.2	13.8	13.1	13.1	13.0	12.6
90°	15.5	15.6	15.9	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9
92.5°	17.4	17.5	17.7	17.8	17.7	17.5	17.4	17.2	16.8	16.0	15.3
95°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.0	19.1	18.4
97.5°	21.8	21.9	22.1	22.1	22.1	21.9	21.8	21.7	21.1	20.2	19.2
100°	22.2	22.3	22.4	22.6	22.4	22.3	22.2	22.1	21.6	20.6	19.6
102.5°	22.3	22.6	22.8	23.0	22.8	22.6	22.3	22.1	23.6	26.5	29.4
105°	22.9	23.2	23.4	23.7	23.4	23.2	22.9	22.7	33.2	54.3	75.4
107.5°	122.1	106.1	90.2	74.3	90.2	106.1	122.1	138.1	153.7	169.3	184.7
110°	199.1	182.0	164.9	147.8	164.9	182.0	199.1	216.1	226.7	230.6	234.6



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	264.5	260.8	257.2	253.6	257.2	260.8	264.5	268.1	269.8	269.8	269.7
115°	314.6	315.2	315.7	316.1	315.7	315.2	314.6	314.1	313.4	312.2	310.9
117.5°	350.9	351.0	351.1	351.2	351.1	351.0	350.9	350.8	350.2	349.3	348.4
120°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	374.8	373.8	372.9
122.5°	398.6	398.7	398.8	398.9	398.8	398.7	398.6	398.5	398.1	397.5	396.8
125°	431.5	431.8	432.0	432.3	432.0	431.8	431.5	431.3	431.0	430.7	430.6
127.5°	465.0	464.8	464.5	464.3	464.5	464.8	465.0	465.2	465.1	464.8	464.4
130°	485.6	485.4	485.1	484.9	485.1	485.4	485.6	485.9	485.7	485.2	484.7
132.5°	504.8	504.4	504.2	503.8	504.2	504.4	504.8	505.2	505.1	504.6	504.2
135°	533.9	533.5	533.1	532.7	533.1	533.5	533.9	534.1	534.1	533.9	533.5
137.5°	560.6	560.4	560.2	560.0	560.2	560.4	560.6	560.9	560.7	560.2	559.6
140°	577.0	576.7	576.6	576.3	576.6	576.7	577.0	577.2	577.1	576.6	576.2
142.5°	592.4	592.0	591.6	591.4	591.6	592.0	592.4	592.7	592.7	592.3	591.9
145°	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.3	614.1	613.9
147.5°	633.3	632.7	632.3	631.7	632.3	632.7	633.3	633.9	634.0	633.8	633.6
150°	645.6	645.3	644.9	644.6	644.9	645.3	645.6	646.0	646.0	645.8	645.5
152.5°	656.6	656.0	655.4	654.9	655.4	656.0	656.6	657.0	657.1	656.7	656.3
155°	671.5	670.7	670.1	669.3	670.1	670.7	671.5	672.1	672.2	671.7	671.0
157.5°	684.2	683.3	682.4	681.5	682.4	683.3	684.2	685.1	685.3	684.6	683.8
160°	691.7	690.9	690.0	689.2	690.0	690.9	691.7	692.5	692.6	691.8	691.2
162.5°	698.7	698.0	697.2	696.5	697.2	698.0	698.7	699.5	699.5	698.6	697.8
165°	707.8	707.0	706.2	705.3	706.2	707.0	707.8	708.7	708.6	707.7	706.7
167.5°	714.5	713.6	712.7	711.6	712.7	713.6	714.5	715.5	715.5	714.5	713.6
170°	718.4	717.5	716.5	715.5	716.5	717.5	718.4	719.3	719.3	718.4	717.5
172.5°	720.9	719.8	718.7	717.7	718.7	719.8	720.9	721.9	721.9	721.0	720.0
175°	723.8	722.8	721.9	720.9	721.9	722.8	723.8	724.7	724.8	724.0	723.1
177.5°	724.7	723.8	722.8	721.9	722.8	723.8	724.7	725.7	725.8	725.0	724.2
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

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°	12.5	12.1	12.1	11.5	10.9	10.3	9.1	9.2	9.0	9.9	9.3
90°	13.4	12.9	11.3	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6
92.5°	14.5	13.8	12.6	11.4	10.3	9.0	8.7	9.0	9.3	9.7	10.0
95°	17.5	16.7	15.4	14.0	12.7	11.4	13.2	18.1	23.0	27.9	32.8
97.5°	18.3	17.3	25.9	34.5	43.1	51.7	57.1	59.3	61.5	63.7	65.9
100°	18.7	17.7	36.4	55.0	73.6	92.3	100.4	98.0	95.7	93.2	90.9
102.5°	32.4	35.3	55.7	76.1	96.4	116.8	126.1	124.4	122.7	120.9	119.2
105°	96.6	117.7	128.5	139.2	150.0	160.7	165.4	164.1	162.9	161.6	160.2
107.5°	200.3	215.7	214.1	212.4	210.7	209.0	207.6	206.6	205.6	204.4	203.4
110°	238.5	242.4	241.1	239.8	238.5	237.2	236.0	235.1	234.1	233.2	232.2



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	269.7	269.6	268.2	266.9	265.6	264.3	263.2	262.3	261.5	260.6	259.8
115°	309.8	308.6	307.5	306.4	305.4	304.3	303.4	302.7	301.9	301.2	300.5
117.5°	347.4	346.4	345.9	345.3	344.8	344.2	343.5	342.6	341.8	340.8	340.0
120°	371.9	370.9	370.6	370.2	369.9	369.5	368.8	367.7	366.6	365.5	364.5
122.5°	396.2	395.5	395.0	394.5	394.1	393.6	392.9	392.1	391.2	390.3	389.5
125°	430.3	430.1	429.6	429.1	428.7	428.2	427.4	426.5	425.6	424.6	423.6
127.5°	464.0	463.6	463.1	462.5	461.8	461.3	460.5	459.6	458.6	457.7	456.8
130°	484.3	483.8	483.3	482.9	482.4	481.9	481.2	480.2	479.3	478.3	477.4
132.5°	503.7	503.2	502.8	502.4	502.0	501.6	501.0	500.0	499.1	498.1	497.2
135°	533.1	532.7	532.3	531.8	531.3	530.8	530.3	529.5	528.8	528.1	527.4
137.5°	559.0	558.5	558.2	557.9	557.6	557.4	556.8	555.9	555.0	554.1	553.2
140°	575.7	575.2	574.9	574.5	574.1	573.8	573.3	572.5	571.8	571.1	570.3
142.5°	591.5	591.2	590.8	590.4	590.0	589.7	589.2	588.4	587.8	587.0	586.3
145°	613.6	613.4	613.1	612.9	612.7	612.5	611.9	611.1	610.2	609.4	608.5
147.5°	633.3	633.1	632.8	632.5	632.4	632.1	631.7	631.1	630.7	630.1	629.5
150°	645.4	645.1	644.9	644.6	644.4	644.1	643.9	643.5	643.1	642.8	642.4
152.5°	655.8	655.4	655.3	655.2	655.0	654.9	654.7	654.5	654.3	654.2	654.0
155°	670.4	669.9	669.7	669.6	669.5	669.4	669.4	669.7	669.9	670.1	670.3
157.5°	683.2	682.4	682.5	682.7	682.8	682.9	683.0	683.0	683.0	683.1	683.1
160°	690.4	689.8	689.8	689.9	690.0	690.2	690.3	690.4	690.6	690.7	690.8
162.5°	697.0	696.2	696.3	696.4	696.5	696.6	696.8	697.2	697.5	697.8	698.1
165°	705.8	704.7	704.9	705.0	705.1	705.2	705.5	705.9	706.2	706.5	706.9
167.5°	712.7	711.6	711.6	711.6	711.6	711.6	711.9	712.4	712.8	713.3	713.8
170°	716.5	715.5	715.5	715.5	715.5	715.5	715.8	716.2	716.7	717.2	717.7
172.5°	719.1	718.1	718.0	717.9	717.8	717.7	717.9	718.5	719.1	719.7	720.3
175°	722.3	721.4	721.3	721.2	721.0	721.0	721.2	721.8	722.4	723.0	723.6
177.5°	723.5	722.7	722.6	722.6	722.5	722.4	722.6	723.0	723.5	724.0	724.4
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

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	6.7	6.6	5.9	6.2	5.9	6.6	6.3	6.3	6.7	6.2
90°	1.7	2.9	4.1	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9
92.5°	9.7	9.3	9.0	8.7	9.0	10.3	11.4	12.6	13.8	14.5	15.3
95°	27.9	23.0	18.1	13.2	11.4	12.7	14.0	15.4	16.7	17.5	18.4
97.5°	63.7	61.5	59.3	57.1	51.7	43.1	34.5	25.9	17.3	18.3	19.2
100°	93.2	95.7	98.0	100.4	92.3	73.6	55.0	36.4	17.7	18.7	19.6
102.5°	120.9	122.7	124.4	126.1	116.8	96.4	76.1	55.7	35.3	32.4	29.4
105°	161.6	162.9	164.1	165.4	160.7	150.0	139.2	128.5	117.7	96.6	75.4
107.5°	204.4	205.6	206.6	207.6	209.0	210.7	212.4	214.1	215.7	200.3	184.7
110°	233.2	234.1	235.1	236.0	237.2	238.5	239.8	241.1	242.4	238.5	234.6



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	260.6	261.5	262.3	263.2	264.3	265.6	266.9	268.2	269.6	269.7	269.7
115°	301.2	301.9	302.7	303.4	304.3	305.4	306.4	307.5	308.6	309.8	310.9
117.5°	340.8	341.8	342.6	343.5	344.2	344.8	345.3	345.9	346.4	347.4	348.4
120°	365.5	366.6	367.7	368.8	369.5	369.9	370.2	370.6	370.9	371.9	372.9
122.5°	390.3	391.2	392.1	392.9	393.6	394.1	394.5	395.0	395.5	396.2	396.8
125°	424.6	425.6	426.5	427.4	428.2	428.7	429.1	429.6	430.1	430.3	430.6
127.5°	457.7	458.6	459.6	460.5	461.3	461.8	462.5	463.1	463.6	464.0	464.4
130°	478.3	479.3	480.2	481.2	481.9	482.4	482.9	483.3	483.8	484.3	484.7
132.5°	498.1	499.1	500.0	501.0	501.6	502.0	502.4	502.8	503.2	503.7	504.2
135°	528.1	528.8	529.5	530.3	530.8	531.3	531.8	532.3	532.7	533.1	533.5
137.5°	554.1	555.0	555.9	556.8	557.4	557.6	557.9	558.2	558.5	559.0	559.6
140°	571.1	571.8	572.5	573.3	573.8	574.1	574.5	574.9	575.2	575.7	576.2
142.5°	587.0	587.8	588.4	589.2	589.7	590.0	590.4	590.8	591.2	591.5	591.9
145°	609.4	610.2	611.1	611.9	612.5	612.7	612.9	613.1	613.4	613.6	613.9
147.5°	630.1	630.7	631.1	631.7	632.1	632.4	632.5	632.8	633.1	633.3	633.6
150°	642.8	643.1	643.5	643.9	644.1	644.4	644.6	644.9	645.1	645.4	645.5
152.5°	654.2	654.3	654.5	654.7	654.9	655.0	655.2	655.3	655.4	655.8	656.3
155°	670.1	669.9	669.7	669.4	669.4	669.5	669.6	669.7	669.9	670.4	671.0
157.5°	683.1	683.0	683.0	683.0	682.9	682.8	682.7	682.5	682.4	683.2	683.8
160°	690.7	690.6	690.4	690.3	690.2	690.0	689.9	689.8	689.8	690.4	691.2
162.5°	697.8	697.5	697.2	696.8	696.6	696.5	696.4	696.3	696.2	697.0	697.8
165°	706.5	706.2	705.9	705.5	705.2	705.1	705.0	704.9	704.7	705.8	706.7
167.5°	713.3	712.8	712.4	711.9	711.6	711.6	711.6	711.6	711.6	712.7	713.6
170°	717.2	716.7	716.2	715.8	715.5	715.5	715.5	715.5	715.5	716.5	717.5
172.5°	719.7	719.1	718.5	717.9	717.7	717.8	717.9	718.0	718.1	719.1	720.0
175°	723.0	722.4	721.8	721.2	721.0	721.0	721.2	721.3	721.4	722.3	723.1
177.5°	724.0	723.5	723.0	722.6	722.4	722.5	722.6	722.6	722.7	723.5	724.2
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

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°	6.3	6.4	6.2	6.2	6.0	6.6	6.1
90°	14.3	14.8	15.2	15.5	15.6	15.9	16.1
92.5°	16.0	16.8	17.2	17.4	17.5	17.7	17.8
95°	19.1	20.0	20.5	20.5	20.5	20.5	20.5
97.5°	20.2	21.1	21.7	21.8	21.9	22.1	22.1
100°	20.6	21.6	22.1	22.2	22.3	22.4	22.6
102.5°	26.5	23.6	22.1	22.3	22.6	22.8	23.0
105°	54.3	33.2	22.7	22.9	23.2	23.4	23.7
107.5°	169.3	153.7	138.1	122.1	106.1	90.2	74.3
110°	230.6	226.7	216.1	199.1	182.0	164.9	147.8



TEST NUMBER: P332276-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	269.8	269.8	268.1	264.5	260.8	257.2	253.6
115°	312.2	313.4	314.1	314.6	315.2	315.7	316.1
117.5°	349.3	350.2	350.8	350.9	351.0	351.1	351.2
120°	373.8	374.8	375.2	375.2	375.2	375.2	375.2
122.5°	397.5	398.1	398.5	398.6	398.7	398.8	398.9
125°	430.7	431.0	431.3	431.5	431.8	432.0	432.3
127.5°	464.8	465.1	465.2	465.0	464.8	464.5	464.3
130°	485.2	485.7	485.9	485.6	485.4	485.1	484.9
132.5°	504.6	505.1	505.2	504.8	504.4	504.2	503.8
135°	533.9	534.1	534.1	533.9	533.5	533.1	532.7
137.5°	560.2	560.7	560.9	560.6	560.4	560.2	560.0
140°	576.6	577.1	577.2	577.0	576.7	576.6	576.3
142.5°	592.3	592.7	592.7	592.4	592.0	591.6	591.4
145°	614.1	614.3	614.4	614.4	614.4	614.4	614.4
147.5°	633.8	634.0	633.9	633.3	632.7	632.3	631.7
150°	645.8	646.0	646.0	645.6	645.3	644.9	644.6
152.5°	656.7	657.1	657.0	656.6	656.0	655.4	654.9
155°	671.7	672.2	672.1	671.5	670.7	670.1	669.3
157.5°	684.6	685.3	685.1	684.2	683.3	682.4	681.5
160°	691.8	692.6	692.5	691.7	690.9	690.0	689.2
162.5°	698.6	699.5	699.5	698.7	698.0	697.2	696.5
165°	707.7	708.6	708.7	707.8	707.0	706.2	705.3
167.5°	714.5	715.5	715.5	714.5	713.6	712.7	711.6
170°	718.4	719.3	719.3	718.4	717.5	716.5	715.5
172.5°	721.0	721.9	721.9	720.9	719.8	718.7	717.7
175°	724.0	724.8	724.7	723.8	722.8	721.9	720.9
177.5°	725.0	725.8	725.7	724.7	723.8	722.8	721.9
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6

(END OF REPORT)