

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: P332284-830

Luminaire Tested: **S123RDIP-S560D805U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332284-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S560D805U830-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4841.3 lumens
Efficiency: N/A
Efficacy: 126.1 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: General Diffuse

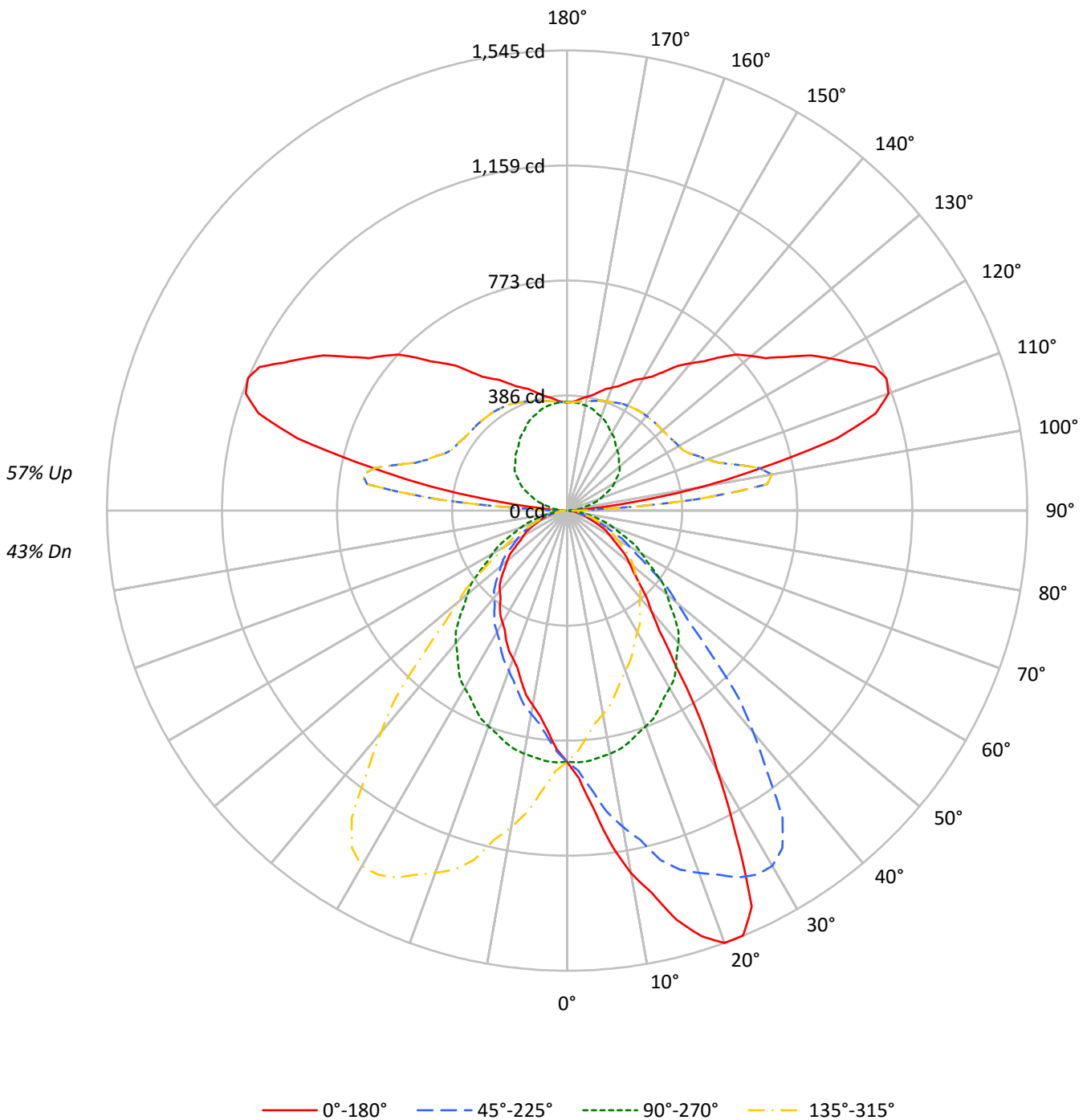
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

Luminous Intensity Polar Plot





TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	97	93	89	86	88	85	82	79	71	68	66	57	56	54	45	44	43	38
2	89	82	76	71	81	75	70	66	62	59	56	51	48	46	40	39	37	32
3	81	72	65	60	74	66	60	55	55	51	47	45	42	40	36	34	32	28
4	74	64	57	51	68	59	52	47	50	45	41	41	37	34	33	30	28	24
5	68	57	50	44	62	53	46	41	45	39	35	37	33	30	30	27	25	21
6	63	52	44	38	58	48	41	36	40	35	31	33	30	27	27	24	22	19
7	58	47	39	34	53	43	36	32	37	31	28	30	27	24	25	22	20	17
8	54	42	35	30	50	39	33	28	33	28	25	28	24	21	23	20	18	15
9	51	39	31	27	46	36	29	25	31	26	22	26	22	19	21	18	16	14
10	47	36	29	24	43	33	27	23	28	23	20	24	20	17	20	17	15	13

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: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.7
10°-20°	259.1	5.4
20°-30°	407.0	8.4
30°-40°	424.7	8.8
40°-50°	363.4	7.5
50°-60°	277.0	5.7
60°-70°	177.6	3.7
70°-80°	85.4	1.8
80°-90°	25.4	0.5
90°-100°	202.6	4.2
100°-110°	573.6	11.8
110°-120°	564.3	11.7
120°-130°	450.1	9.3
130°-140°	354.9	7.3
140°-150°	264.9	5.5
150°-160°	184.6	3.8
160°-170°	108.5	2.2
170°-180°	35.3	0.7
0°-30°	749.1	15.5
0°-40°	1173.7	24.2
0°-60°	1814.2	37.5
0°-90°	2102.6	43.4
90°-120°	1340.5	27.7
90°-150°	2410.4	49.8
90°-180°	2739.0	56.6
0°-180°	4841.3	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	15
90°	21	2	21	2	21	12
95°	86	25	86	25	86	154
105°	937	86	937	86	937	925
115°	1140	151	1140	151	1140	1108
125°	899	210	899	210	899	815
135°	729	246	729	246	729	565
145°	570	281	570	281	570	362
155°	472	319	472	319	472	220
165°	412	349	412	349	412	118
175°	371	363	371	363	371	36
180°	364	364	364	364	364	



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

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°	7.2	7.9	7.2	7.3	7.4	7.4	7.3	7.2	7.5	7.4	7.3
90°	21.4	22.1	21.4	20.6	21.4	19.9	19.1	18.4	17.7	18.4	16.2
92.5°	35.5	36.9	36.1	38.4	39.7	43.5	49.2	62.0	85.5	113.3	124.7
95°	85.5	88.4	93.6	100.2	114.2	140.7	179.8	265.3	354.5	437.0	389.1
97.5°	232.7	239.0	258.9	292.1	346.5	434.6	529.7	661.3	724.5	677.2	495.8
100°	462.0	461.3	490.0	543.8	618.2	722.9	809.1	868.8	843.0	697.9	471.6
102.5°	677.8	694.7	718.8	761.4	819.3	885.6	935.9	937.7	848.9	659.5	436.2
105°	937.4	941.0	964.6	992.6	1026.5	1045.7	1031.6	958.0	804.0	592.5	392.8
107.5°	1086.8	1093.5	1101.5	1111.0	1110.3	1084.1	1019.5	899.9	725.3	533.2	365.0
110°	1148.1	1149.5	1151.0	1145.1	1124.5	1072.9	980.1	844.5	675.7	499.6	354.5



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1160.5	1160.2	1154.6	1136.3	1098.5	1032.3	928.2	789.7	632.7	477.2	348.6
115°	1140.0	1136.3	1121.5	1089.1	1033.9	953.6	845.2	717.0	580.7	453.2	346.4
117.5°	1074.9	1069.8	1048.6	1011.4	953.9	872.3	775.1	664.4	549.3	439.0	347.7
120°	1020.6	1016.2	998.5	957.2	899.0	824.6	736.1	636.7	532.8	432.5	350.1
122.5°	969.9	964.3	944.8	907.7	856.0	786.8	704.9	614.9	519.2	428.5	354.1
125°	899.0	893.8	875.4	843.0	795.9	736.9	666.2	585.8	501.8	423.0	360.3
127.5°	840.7	835.9	819.3	791.5	749.6	696.0	632.1	560.5	486.5	420.4	367.4
130°	807.7	801.7	786.3	759.8	720.7	670.6	610.9	544.6	478.2	418.6	372.1
132.5°	775.2	771.1	757.4	730.8	694.2	646.4	590.9	529.8	470.6	417.9	375.7
135°	728.8	723.6	710.4	688.2	652.1	610.1	562.2	509.9	460.5	417.1	381.0
137.5°	679.8	676.4	665.2	642.7	612.4	576.0	534.7	491.8	451.9	415.5	384.6
140°	645.5	646.3	634.4	613.9	585.8	554.1	518.8	481.2	446.6	414.9	386.9
142.5°	613.7	614.4	603.8	585.5	561.7	534.1	503.4	471.2	441.9	413.7	388.6
145°	569.6	568.2	562.2	546.8	528.4	507.0	483.4	459.1	435.5	411.9	389.8
147.5°	533.4	532.8	527.2	516.7	502.8	487.6	468.5	449.2	429.3	409.2	389.8
150°	512.2	512.2	507.7	499.6	488.5	474.6	459.1	442.1	425.2	406.8	389.8
152.5°	494.5	494.5	491.8	484.3	475.6	463.9	450.3	435.6	420.5	403.8	388.0
155°	472.3	471.6	470.1	464.2	457.6	448.7	437.7	425.9	413.4	398.7	386.2
157.5°	452.1	452.3	451.1	446.7	440.9	434.0	425.5	415.6	405.5	394.1	383.6
160°	439.2	439.9	439.9	435.5	430.4	425.2	417.8	409.7	400.1	390.6	382.5
162.5°	427.4	428.1	428.1	424.3	420.9	416.3	409.5	402.7	394.8	387.0	380.1
165°	411.9	411.9	412.6	409.7	406.8	403.1	397.9	393.5	387.6	381.7	376.5
167.5°	397.2	397.2	397.9	395.9	394.5	391.9	388.9	385.5	380.7	376.5	373.1
170°	388.3	388.3	389.1	387.6	386.9	385.4	382.5	380.2	376.5	372.9	370.7
172.5°	380.1	380.7	382.0	380.5	380.4	379.5	377.1	375.5	372.4	369.9	368.9
175°	370.7	371.4	372.1	371.4	371.4	371.4	369.9	369.2	367.7	366.3	366.3
177.5°	365.2	365.2	366.4	365.8	366.4	366.4	365.8	365.2	364.6	364.0	364.6
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

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°	7.4	6.7	6.8	6.5	7.1	7.0	8.4	9.5	10.1	9.2	9.7
90°	14.0	11.8	9.6	8.1	6.6	4.4	2.9	1.5	2.9	4.4	6.6
92.5°	93.6	61.9	42.6	31.7	25.5	19.8	13.6	9.1	13.6	19.8	25.5
95°	268.2	158.4	95.8	67.0	47.9	35.3	27.2	25.1	27.2	35.3	47.9
97.5°	294.4	170.5	110.7	79.6	60.7	49.9	43.5	42.7	43.5	49.9	60.7
100°	277.8	168.7	117.2	88.4	70.8	60.4	55.2	54.6	55.2	60.4	70.8
102.5°	263.6	171.1	124.8	98.5	82.6	72.8	68.2	66.9	68.2	72.8	82.6
105°	253.4	177.6	137.8	115.0	100.9	92.1	87.7	85.5	87.7	92.1	100.9
107.5°	252.8	189.6	154.8	133.6	120.4	111.7	107.4	105.2	107.4	111.7	120.4
110°	255.7	199.7	166.5	145.9	133.4	125.3	121.6	119.4	121.6	125.3	133.4



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	261.6	209.7	178.9	158.9	146.4	138.3	134.6	132.3	134.6	138.3	146.4
115°	271.2	226.2	198.2	178.3	165.8	158.4	154.0	151.1	154.0	158.4	165.8
117.5°	283.9	243.7	216.0	197.7	183.6	176.8	173.1	169.8	173.1	176.8	183.6
120°	293.3	255.0	228.5	210.0	196.0	188.6	184.9	182.8	184.9	188.6	196.0
122.5°	302.1	266.7	240.8	221.2	207.8	199.8	196.1	194.0	196.1	199.8	207.8
125°	316.1	283.7	257.9	238.0	224.0	215.9	211.5	210.0	211.5	215.9	224.0
127.5°	327.6	298.4	273.5	253.6	238.2	229.9	224.4	222.3	224.4	229.9	238.2
130°	335.3	307.3	283.0	263.1	247.6	238.7	232.1	229.9	232.1	238.7	247.6
132.5°	342.3	314.9	291.2	271.9	256.5	245.8	238.7	235.8	238.7	245.8	256.5
135°	351.5	326.4	303.6	283.7	268.2	257.2	249.1	246.1	249.1	257.2	268.2
137.5°	358.3	334.4	312.5	294.0	278.7	266.9	258.9	255.8	258.9	266.9	278.7
140°	361.8	339.7	318.3	299.9	285.2	273.4	266.0	262.3	266.0	273.4	285.2
142.5°	365.3	343.8	323.0	305.9	291.1	280.5	272.5	269.4	272.5	280.5	291.1
145°	369.2	349.3	330.2	313.2	300.7	289.6	283.0	280.8	283.0	289.6	300.7
147.5°	371.6	353.7	336.2	321.7	309.6	300.1	293.6	292.3	293.6	300.1	309.6
150°	372.1	356.7	339.7	326.4	316.1	306.5	300.7	299.9	300.7	306.5	316.1
152.5°	373.3	358.4	343.8	331.1	322.1	313.6	307.7	307.6	307.7	313.6	322.1
155°	373.6	361.8	349.3	338.9	330.8	323.5	319.1	319.1	319.1	323.5	330.8
157.5°	374.4	363.7	353.7	345.7	338.8	332.3	328.8	328.2	328.8	332.3	338.8
160°	374.4	365.5	356.7	349.3	344.1	338.3	335.3	335.3	335.3	338.3	344.1
162.5°	373.7	366.1	358.4	352.2	347.7	343.0	340.6	340.6	340.6	343.0	347.7
165°	372.1	366.9	361.1	355.9	353.0	349.3	347.8	348.6	347.8	349.3	353.0
167.5°	371.0	366.8	362.6	359.3	357.2	354.5	353.7	354.6	353.7	354.5	357.2
170°	369.2	366.3	362.6	361.1	359.6	357.4	356.7	358.2	356.7	357.4	359.6
172.5°	368.6	366.3	363.2	362.2	361.4	359.8	359.6	360.5	359.6	359.8	361.4
175°	366.9	365.5	364.0	363.3	363.3	361.8	362.6	363.3	362.6	361.8	363.3
177.5°	365.8	364.6	364.0	364.0	364.0	363.4	364.0	364.6	364.0	363.4	364.0
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	828.9	825.1	822.6	816.7	813.0	809.0	804.9	807.5	807.2	806.9	806.9
5°	801.1	792.8	785.2	775.4	769.3	761.8	755.9	755.3	756.7	751.6	748.8
7.5°	773.5	762.1	751.4	740.6	729.2	720.1	714.4	711.8	708.1	705.0	701.7
10°	754.1	740.8	730.3	717.0	704.7	693.9	687.0	682.3	679.8	677.2	672.6
12.5°	734.2	721.1	707.8	692.7	681.0	668.5	663.4	658.1	653.2	650.4	643.9
15°	705.0	688.1	674.0	658.1	645.2	632.8	625.7	615.2	613.7	610.1	603.6
17.5°	675.8	657.4	638.0	626.2	611.5	598.8	587.8	584.3	573.9	570.0	564.4
20°	652.7	635.7	620.9	605.4	584.1	572.2	563.5	558.8	550.5	545.4	541.9
22.5°	632.8	615.5	598.4	580.3	562.7	549.4	543.0	535.7	531.2	524.1	520.2
25°	604.4	585.6	565.0	545.4	532.8	522.7	512.6	506.1	499.6	496.3	489.2
27.5°	571.3	551.7	532.4	517.6	502.1	492.1	483.0	477.2	469.4	463.9	460.0
30°	553.1	530.0	513.4	500.0	480.1	470.8	463.9	456.7	450.9	445.2	441.1
32.5°	532.0	510.9	495.1	478.6	463.4	453.2	444.2	437.9	433.0	427.5	423.6
35°	498.9	481.3	465.0	448.4	437.2	426.7	416.2	410.9	406.1	401.1	397.5
37.5°	469.0	452.5	437.1	421.3	407.5	398.9	390.5	386.3	380.0	376.6	373.0
40°	450.5	434.3	417.7	402.6	388.0	381.6	374.0	367.9	362.1	359.6	355.6
42.5°	430.4	414.1	400.1	383.7	371.9	363.1	356.1	349.4	345.1	341.4	339.1
45°	400.4	385.9	372.2	356.0	344.8	337.1	329.2	323.1	319.1	316.6	312.6
47.5°	371.3	356.8	342.9	328.8	317.9	309.2	301.3	297.0	291.8	288.7	286.0
50°	350.2	337.1	322.3	309.3	298.6	289.9	283.4	278.0	273.2	269.3	267.5
52.5°	330.8	317.0	304.2	292.1	280.7	270.8	264.9	259.2	255.7	251.1	249.0
55°	298.9	285.6	274.8	262.8	251.7	243.4	236.1	231.0	227.4	222.3	219.5
57.5°	268.9	256.9	244.0	233.8	222.2	215.2	209.2	202.3	197.9	194.0	191.1
60°	248.7	235.0	223.9	214.1	204.0	194.9	189.5	184.1	179.5	175.4	173.0
62.5°	227.6	215.7	205.1	194.4	185.2	177.3	171.1	166.5	162.4	159.9	157.3
65°	195.3	186.0	175.1	166.5	157.8	152.0	146.9	143.0	140.1	138.3	136.1
67.5°	165.6	156.5	147.0	138.5	132.7	128.3	125.0	121.6	120.2	117.8	116.4
70°	146.2	136.9	128.6	122.1	116.2	113.0	110.8	108.3	106.9	104.0	102.5
72.5°	125.2	118.4	112.4	107.0	102.4	99.4	96.7	93.6	91.2	88.1	86.6
75°	98.6	92.5	87.8	84.1	81.2	77.3	73.3	70.0	69.0	67.9	67.5
77.5°	73.0	69.1	65.7	62.7	59.1	56.2	55.3	54.6	54.4	53.8	53.8
80°	57.4	53.8	51.3	47.7	45.5	45.5	45.5	44.8	45.1	45.1	45.1
82.5°	42.7	39.3	38.0	36.7	36.3	36.6	36.6	36.7	36.5	37.0	36.8
85°	22.1	22.3	23.1	22.7	23.1	23.1	23.8	23.5	23.8	23.1	23.8
87.5°	9.7	10.8	11.6	12.3	13.1	13.2	13.4	13.5	13.9	14.0	14.4
90°	8.1	9.6	11.8	14.0	16.2	18.4	17.7	18.4	19.1	19.9	21.4
92.5°	31.7	42.6	61.9	93.6	124.7	113.3	85.5	62.0	49.2	43.5	39.7
95°	67.0	95.8	158.4	268.2	389.1	437.0	354.5	265.3	179.8	140.7	114.2
97.5°	79.6	110.7	170.5	294.4	495.8	677.2	724.5	661.3	529.7	434.6	346.5
100°	88.4	117.2	168.7	277.8	471.6	697.9	843.0	868.8	809.1	722.9	618.2
102.5°	98.5	124.8	171.1	263.6	436.2	659.5	848.9	937.7	935.9	885.6	819.3
105°	115.0	137.8	177.6	253.4	392.8	592.5	804.0	958.0	1031.6	1045.7	1026.5
107.5°	133.6	154.8	189.6	252.8	365.0	533.2	725.3	899.9	1019.5	1084.1	1110.3
110°	145.9	166.5	199.7	255.7	354.5	499.6	675.7	844.5	980.1	1072.9	1124.5



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	158.9	178.9	209.7	261.6	348.6	477.2	632.7	789.7	928.2	1032.3	1098.5
115°	178.3	198.2	226.2	271.2	346.4	453.2	580.7	717.0	845.2	953.6	1033.9
117.5°	197.7	216.0	243.7	283.9	347.7	439.0	549.3	664.4	775.1	872.3	953.9
120°	210.0	228.5	255.0	293.3	350.1	432.5	532.8	636.7	736.1	824.6	899.0
122.5°	221.2	240.8	266.7	302.1	354.1	428.5	519.2	614.9	704.9	786.8	856.0
125°	238.0	257.9	283.7	316.1	360.3	423.0	501.8	585.8	666.2	736.9	795.9
127.5°	253.6	273.5	298.4	327.6	367.4	420.4	486.5	560.5	632.1	696.0	749.6
130°	263.1	283.0	307.3	335.3	372.1	418.6	478.2	544.6	610.9	670.6	720.7
132.5°	271.9	291.2	314.9	342.3	375.7	417.9	470.6	529.8	590.9	646.4	694.2
135°	283.7	303.6	326.4	351.5	381.0	417.1	460.5	509.9	562.2	610.1	652.1
137.5°	294.0	312.5	334.4	358.3	384.6	415.5	451.9	491.8	534.7	576.0	612.4
140°	299.9	318.3	339.7	361.8	386.9	414.9	446.6	481.2	518.8	554.1	585.8
142.5°	305.9	323.0	343.8	365.3	388.6	413.7	441.9	471.2	503.4	534.1	561.7
145°	313.2	330.2	349.3	369.2	389.8	411.9	435.5	459.1	483.4	507.0	528.4
147.5°	321.7	336.2	353.7	371.6	389.8	409.2	429.3	449.2	468.5	487.6	502.8
150°	326.4	339.7	356.7	372.1	389.8	406.8	425.2	442.1	459.1	474.6	488.5
152.5°	331.1	343.8	358.4	373.3	388.0	403.8	420.5	435.6	450.3	463.9	475.6
155°	338.9	349.3	361.8	373.6	386.2	398.7	413.4	425.9	437.7	448.7	457.6
157.5°	345.7	353.7	363.7	374.4	383.6	394.1	405.5	415.6	425.5	434.0	440.9
160°	349.3	356.7	365.5	374.4	382.5	390.6	400.1	409.7	417.8	425.2	430.4
162.5°	352.2	358.4	366.1	373.7	380.1	387.0	394.8	402.7	409.5	416.3	420.9
165°	355.9	361.1	366.9	372.1	376.5	381.7	387.6	393.5	397.9	403.1	406.8
167.5°	359.3	362.6	366.8	371.0	373.1	376.5	380.7	385.5	388.9	391.9	394.5
170°	361.1	362.6	366.3	369.2	370.7	372.9	376.5	380.2	382.5	385.4	386.9
172.5°	362.2	363.2	366.3	368.6	368.9	369.9	372.4	375.5	377.1	379.5	380.4
175°	363.3	364.0	365.5	366.9	366.3	366.3	367.7	369.2	369.9	371.4	371.4
177.5°	364.0	364.0	364.6	365.8	364.6	364.0	364.6	365.2	365.8	366.4	366.4
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	803.4	803.1	803.4	802.3	803.4	803.1	803.4	806.9	806.9	807.2	807.5
5°	747.6	747.2	746.2	743.0	746.2	747.2	747.6	748.8	751.6	756.7	755.3
7.5°	698.9	698.4	695.2	695.3	695.2	698.4	698.9	701.7	705.0	708.1	711.8
10°	670.1	670.4	666.1	663.5	666.1	670.4	670.1	672.6	677.2	679.8	682.3
12.5°	642.1	640.4	636.9	634.0	636.9	640.4	642.1	643.9	650.4	653.2	658.1
15°	605.0	601.4	592.8	593.5	592.8	601.4	605.0	603.6	610.1	613.7	615.2
17.5°	561.5	558.8	558.7	553.6	558.7	558.8	561.5	564.4	570.0	573.9	584.3
20°	536.1	534.3	535.0	530.0	535.0	534.3	536.1	541.9	545.4	550.5	558.8
22.5°	516.1	514.3	511.3	509.7	511.3	514.3	516.1	520.2	524.1	531.2	535.7
25°	487.0	484.1	481.3	483.1	481.3	484.1	487.0	489.2	496.3	499.6	506.1
27.5°	457.8	455.6	452.8	452.4	452.8	455.6	457.8	460.0	463.9	469.4	477.2
30°	439.3	437.2	435.7	433.9	435.7	437.2	439.3	441.1	445.2	450.9	456.7
32.5°	420.6	420.2	417.5	417.2	417.5	420.2	420.6	423.6	427.5	433.0	437.9
35°	396.1	393.9	393.1	393.5	393.1	393.9	396.1	397.5	401.1	406.1	410.9
37.5°	372.7	369.9	368.5	367.2	368.5	369.9	372.7	373.0	376.6	380.0	386.3
40°	356.0	353.1	352.3	351.7	352.3	353.1	356.0	355.6	359.6	362.1	367.9
42.5°	337.1	336.0	335.6	334.3	335.6	336.0	337.1	339.1	341.4	345.1	349.4
45°	311.5	311.2	309.1	309.7	309.1	311.2	311.5	312.6	316.6	319.1	323.1
47.5°	284.6	283.0	281.4	282.5	281.4	283.0	284.6	286.0	288.7	291.8	297.0
50°	266.1	265.3	262.1	262.8	262.1	265.3	266.1	267.5	269.3	273.2	278.0
52.5°	247.6	244.9	243.6	243.2	243.6	244.9	247.6	249.0	251.1	255.7	259.2
55°	217.0	213.7	212.3	211.5	212.3	213.7	217.0	219.5	222.3	227.4	231.0
57.5°	186.9	186.1	184.9	185.7	184.9	186.1	186.9	191.1	194.0	197.9	202.3
60°	169.3	169.3	169.3	169.0	169.3	169.3	169.3	173.0	175.4	179.5	184.1
62.5°	155.7	154.9	154.6	155.0	154.6	154.9	155.7	157.3	159.9	162.4	166.5
65°	135.0	134.7	133.2	132.9	133.2	134.7	135.0	136.1	138.3	140.1	143.0
67.5°	115.5	114.1	113.8	113.2	113.8	114.1	115.5	116.4	117.8	120.2	121.6
70°	100.8	100.0	97.8	98.2	97.8	100.0	100.8	102.5	104.0	106.9	108.3
72.5°	84.8	84.1	83.7	83.1	83.7	84.1	84.8	86.6	88.1	91.2	93.6
75°	67.1	66.8	66.4	67.9	66.4	66.8	67.1	67.5	67.9	69.0	70.0
77.5°	53.8	53.8	54.0	53.4	54.0	53.8	53.8	53.8	53.8	54.4	54.6
80°	45.1	45.1	44.8	44.8	44.8	45.1	45.1	45.1	45.1	45.1	44.8
82.5°	36.2	36.5	36.7	36.1	36.7	36.5	36.2	36.8	37.0	36.5	36.7
85°	23.8	23.5	24.2	23.8	24.2	23.5	23.8	23.8	23.1	23.8	23.5
87.5°	14.8	14.4	14.5	14.7	14.5	14.4	14.8	14.4	14.0	13.9	13.5
90°	20.6	21.4	22.1	21.4	22.1	21.4	20.6	21.4	19.9	19.1	18.4
92.5°	38.4	36.1	36.9	35.5	36.9	36.1	38.4	39.7	43.5	49.2	62.0
95°	100.2	93.6	88.4	85.5	88.4	93.6	100.2	114.2	140.7	179.8	265.3
97.5°	292.1	258.9	239.0	232.7	239.0	258.9	292.1	346.5	434.6	529.7	661.3
100°	543.8	490.0	461.3	462.0	461.3	490.0	543.8	618.2	722.9	809.1	868.8
102.5°	761.4	718.8	694.7	677.8	694.7	718.8	761.4	819.3	885.6	935.9	937.7
105°	992.6	964.6	941.0	937.4	941.0	964.6	992.6	1026.5	1045.7	1031.6	958.0
107.5°	1111.0	1101.5	1093.5	1086.8	1093.5	1101.5	1111.0	1110.3	1084.1	1019.5	899.9
110°	1145.1	1151.0	1149.5	1148.1	1149.5	1151.0	1145.1	1124.5	1072.9	980.1	844.5



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1136.3	1154.6	1160.2	1160.5	1160.2	1154.6	1136.3	1098.5	1032.3	928.2	789.7
115°	1089.1	1121.5	1136.3	1140.0	1136.3	1121.5	1089.1	1033.9	953.6	845.2	717.0
117.5°	1011.4	1048.6	1069.8	1074.9	1069.8	1048.6	1011.4	953.9	872.3	775.1	664.4
120°	957.2	998.5	1016.2	1020.6	1016.2	998.5	957.2	899.0	824.6	736.1	636.7
122.5°	907.7	944.8	964.3	969.9	964.3	944.8	907.7	856.0	786.8	704.9	614.9
125°	843.0	875.4	893.8	899.0	893.8	875.4	843.0	795.9	736.9	666.2	585.8
127.5°	791.5	819.3	835.9	840.7	835.9	819.3	791.5	749.6	696.0	632.1	560.5
130°	759.8	786.3	801.7	807.7	801.7	786.3	759.8	720.7	670.6	610.9	544.6
132.5°	730.8	757.4	771.1	775.2	771.1	757.4	730.8	694.2	646.4	590.9	529.8
135°	688.2	710.4	723.6	728.8	723.6	710.4	688.2	652.1	610.1	562.2	509.9
137.5°	642.7	665.2	676.4	679.8	676.4	665.2	642.7	612.4	576.0	534.7	491.8
140°	613.9	634.4	646.3	645.5	646.3	634.4	613.9	585.8	554.1	518.8	481.2
142.5°	585.5	603.8	614.4	613.7	614.4	603.8	585.5	561.7	534.1	503.4	471.2
145°	546.8	562.2	568.2	569.6	568.2	562.2	546.8	528.4	507.0	483.4	459.1
147.5°	516.7	527.2	532.8	533.4	532.8	527.2	516.7	502.8	487.6	468.5	449.2
150°	499.6	507.7	512.2	512.2	512.2	507.7	499.6	488.5	474.6	459.1	442.1
152.5°	484.3	491.8	494.5	494.5	494.5	491.8	484.3	475.6	463.9	450.3	435.6
155°	464.2	470.1	471.6	472.3	471.6	470.1	464.2	457.6	448.7	437.7	425.9
157.5°	446.7	451.1	452.3	452.1	452.3	451.1	446.7	440.9	434.0	425.5	415.6
160°	435.5	439.9	439.9	439.2	439.9	439.9	435.5	430.4	425.2	417.8	409.7
162.5°	424.3	428.1	428.1	427.4	428.1	428.1	424.3	420.9	416.3	409.5	402.7
165°	409.7	412.6	411.9	411.9	411.9	412.6	409.7	406.8	403.1	397.9	393.5
167.5°	395.9	397.9	397.2	397.2	397.2	397.9	395.9	394.5	391.9	388.9	385.5
170°	387.6	389.1	388.3	388.3	388.3	389.1	387.6	386.9	385.4	382.5	380.2
172.5°	380.5	382.0	380.7	380.1	380.7	382.0	380.5	380.4	379.5	377.1	375.5
175°	371.4	372.1	371.4	370.7	371.4	372.1	371.4	371.4	371.4	369.9	369.2
177.5°	365.8	366.4	365.2	365.2	365.2	366.4	365.8	366.4	366.4	365.8	365.2
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	804.9	809.0	813.0	816.7	822.6	825.1	828.9	830.3	834.6	841.0	846.2
5°	755.9	761.8	769.3	775.4	785.2	792.8	801.1	809.0	818.4	831.8	843.7
7.5°	714.4	720.1	729.2	740.6	751.4	762.1	773.5	784.3	797.8	816.9	835.8
10°	687.0	693.9	704.7	717.0	730.3	740.8	754.1	767.9	784.5	806.5	829.2
12.5°	663.4	668.5	681.0	692.7	707.8	721.1	734.2	750.3	769.2	792.7	820.0
15°	625.7	632.8	645.2	658.1	674.0	688.1	705.0	724.5	743.0	771.8	805.0
17.5°	587.8	598.8	611.5	626.2	638.0	657.4	675.8	695.8	718.5	749.1	785.5
20°	563.5	572.2	584.1	605.4	620.9	635.7	652.7	677.6	698.5	733.2	771.1
22.5°	543.0	549.4	562.7	580.3	598.4	615.5	632.8	656.6	682.4	715.3	756.4
25°	512.6	522.7	532.8	545.4	565.0	585.6	604.4	624.5	652.0	687.0	731.4
27.5°	483.0	492.1	502.1	517.6	532.4	551.7	571.3	594.5	623.9	660.9	706.0
30°	463.9	470.8	480.1	500.0	513.4	530.0	553.1	573.6	601.1	640.5	688.1
32.5°	444.2	453.2	463.4	478.6	495.1	510.9	532.0	554.3	582.3	621.0	669.9
35°	416.2	426.7	437.2	448.4	465.0	481.3	498.9	523.5	552.0	589.6	637.5
37.5°	390.5	398.9	407.5	421.3	437.1	452.5	469.0	493.2	520.1	560.6	604.6
40°	374.0	381.6	388.0	402.6	417.7	434.3	450.5	471.8	500.7	538.7	581.3
42.5°	356.1	363.1	371.9	383.7	400.1	414.1	430.4	450.4	477.6	516.1	553.5
45°	329.2	337.1	344.8	356.0	372.2	385.9	400.4	419.5	447.3	479.1	512.3
47.5°	301.3	309.2	317.9	328.8	342.9	356.8	371.3	388.2	413.6	444.8	467.1
50°	283.4	289.9	298.6	309.3	322.3	337.1	350.2	368.6	392.8	417.4	436.9
52.5°	264.9	270.8	280.7	292.1	304.2	317.0	330.8	346.7	368.5	391.6	407.1
55°	236.1	243.4	251.7	262.8	274.8	285.6	298.9	315.2	332.5	349.8	360.3
57.5°	209.2	215.2	222.2	233.8	244.0	256.9	268.9	281.6	297.7	310.7	317.5
60°	189.5	194.9	204.0	214.1	223.9	235.0	248.7	261.4	273.6	284.1	289.5
62.5°	171.1	177.3	185.2	194.4	205.1	215.7	227.6	238.3	249.1	258.2	261.8
65°	146.9	152.0	157.8	166.5	175.1	186.0	195.3	206.1	214.1	219.1	222.3
67.5°	125.0	128.3	132.7	138.5	147.0	156.5	165.6	174.0	180.7	184.1	187.0
70°	110.8	113.0	116.2	122.1	128.6	136.9	146.2	152.3	158.2	161.0	163.9
72.5°	96.7	99.4	102.4	107.0	112.4	118.4	125.2	132.7	135.9	139.3	141.1
75°	73.3	77.3	81.2	84.1	87.8	92.5	98.6	103.2	105.1	107.9	108.3
77.5°	55.3	56.2	59.1	62.7	65.7	69.1	73.0	77.2	78.0	79.6	80.5
80°	45.5	45.5	45.5	47.7	51.3	53.8	57.4	59.6	61.0	61.4	61.7
82.5°	36.6	36.6	36.3	36.7	38.0	39.3	42.7	45.1	46.3	46.1	45.2
85°	23.8	23.1	23.1	22.7	23.1	22.3	22.1	23.5	25.6	25.6	24.9
87.5°	13.4	13.2	13.1	12.3	11.6	10.8	9.7	9.7	9.2	10.1	9.5
90°	17.7	18.4	16.2	14.0	11.8	9.6	8.1	6.6	4.4	2.9	1.5
92.5°	85.5	113.3	124.7	93.6	61.9	42.6	31.7	25.5	19.8	13.6	9.1
95°	354.5	437.0	389.1	268.2	158.4	95.8	67.0	47.9	35.3	27.2	25.1
97.5°	724.5	677.2	495.8	294.4	170.5	110.7	79.6	60.7	49.9	43.5	42.7
100°	843.0	697.9	471.6	277.8	168.7	117.2	88.4	70.8	60.4	55.2	54.6
102.5°	848.9	659.5	436.2	263.6	171.1	124.8	98.5	82.6	72.8	68.2	66.9
105°	804.0	592.5	392.8	253.4	177.6	137.8	115.0	100.9	92.1	87.7	85.5
107.5°	725.3	533.2	365.0	252.8	189.6	154.8	133.6	120.4	111.7	107.4	105.2
110°	675.7	499.6	354.5	255.7	199.7	166.5	145.9	133.4	125.3	121.6	119.4



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	632.7	477.2	348.6	261.6	209.7	178.9	158.9	146.4	138.3	134.6	132.3
115°	580.7	453.2	346.4	271.2	226.2	198.2	178.3	165.8	158.4	154.0	151.1
117.5°	549.3	439.0	347.7	283.9	243.7	216.0	197.7	183.6	176.8	173.1	169.8
120°	532.8	432.5	350.1	293.3	255.0	228.5	210.0	196.0	188.6	184.9	182.8
122.5°	519.2	428.5	354.1	302.1	266.7	240.8	221.2	207.8	199.8	196.1	194.0
125°	501.8	423.0	360.3	316.1	283.7	257.9	238.0	224.0	215.9	211.5	210.0
127.5°	486.5	420.4	367.4	327.6	298.4	273.5	253.6	238.2	229.9	224.4	222.3
130°	478.2	418.6	372.1	335.3	307.3	283.0	263.1	247.6	238.7	232.1	229.9
132.5°	470.6	417.9	375.7	342.3	314.9	291.2	271.9	256.5	245.8	238.7	235.8
135°	460.5	417.1	381.0	351.5	326.4	303.6	283.7	268.2	257.2	249.1	246.1
137.5°	451.9	415.5	384.6	358.3	334.4	312.5	294.0	278.7	266.9	258.9	255.8
140°	446.6	414.9	386.9	361.8	339.7	318.3	299.9	285.2	273.4	266.0	262.3
142.5°	441.9	413.7	388.6	365.3	343.8	323.0	305.9	291.1	280.5	272.5	269.4
145°	435.5	411.9	389.8	369.2	349.3	330.2	313.2	300.7	289.6	283.0	280.8
147.5°	429.3	409.2	389.8	371.6	353.7	336.2	321.7	309.6	300.1	293.6	292.3
150°	425.2	406.8	389.8	372.1	356.7	339.7	326.4	316.1	306.5	300.7	299.9
152.5°	420.5	403.8	388.0	373.3	358.4	343.8	331.1	322.1	313.6	307.7	307.6
155°	413.4	398.7	386.2	373.6	361.8	349.3	338.9	330.8	323.5	319.1	319.1
157.5°	405.5	394.1	383.6	374.4	363.7	353.7	345.7	338.8	332.3	328.8	328.2
160°	400.1	390.6	382.5	374.4	365.5	356.7	349.3	344.1	338.3	335.3	335.3
162.5°	394.8	387.0	380.1	373.7	366.1	358.4	352.2	347.7	343.0	340.6	340.6
165°	387.6	381.7	376.5	372.1	366.9	361.1	355.9	353.0	349.3	347.8	348.6
167.5°	380.7	376.5	373.1	371.0	366.8	362.6	359.3	357.2	354.5	353.7	354.6
170°	376.5	372.9	370.7	369.2	366.3	362.6	361.1	359.6	357.4	356.7	358.2
172.5°	372.4	369.9	368.9	368.6	366.3	363.2	362.2	361.4	359.8	359.6	360.5
175°	367.7	366.3	366.3	366.9	365.5	364.0	363.3	363.3	361.8	362.6	363.3
177.5°	364.6	364.0	364.6	365.8	364.6	364.0	364.0	364.0	363.4	364.0	364.6
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	847.9	851.1	855.2	861.2	865.8	869.9	870.7	871.9	874.8	879.7	883.4
5°	853.5	861.8	875.1	888.1	902.2	913.7	924.5	932.2	939.3	954.5	966.8
7.5°	851.7	870.2	891.1	914.5	938.0	960.9	982.1	1001.2	1020.1	1042.2	1067.3
10°	850.6	872.2	900.3	930.3	963.2	995.3	1026.3	1050.6	1078.7	1104.0	1136.1
12.5°	845.1	876.3	909.9	948.2	988.6	1025.7	1066.5	1099.9	1132.1	1168.7	1206.0
15°	837.9	875.8	918.4	969.3	1030.7	1075.4	1117.3	1175.4	1215.1	1254.9	1308.3
17.5°	824.8	871.1	924.4	990.4	1041.7	1101.8	1164.8	1210.8	1264.2	1320.2	1368.6
20°	814.5	868.3	927.8	992.8	1058.1	1123.5	1184.5	1239.3	1294.6	1359.2	1398.9
22.5°	804.1	857.2	919.2	988.2	1058.4	1127.2	1196.3	1260.7	1322.9	1388.1	1438.8
25°	781.9	845.1	912.3	982.7	1052.0	1127.8	1210.1	1282.0	1358.9	1426.0	1474.0
27.5°	759.6	817.5	884.3	955.7	1032.7	1122.4	1219.2	1300.9	1377.9	1426.0	1441.1
30°	739.3	800.7	862.0	934.6	1018.0	1118.0	1221.0	1314.5	1377.6	1398.5	1383.0
32.5°	718.9	774.5	835.3	909.6	998.2	1107.4	1223.2	1306.4	1344.4	1328.4	1265.2
35°	682.7	732.8	791.7	866.1	967.9	1101.5	1213.7	1270.1	1260.7	1170.4	1051.2
37.5°	643.9	684.9	739.3	817.1	936.5	1078.0	1172.7	1181.0	1099.8	961.2	823.6
40°	613.3	650.2	706.2	787.4	912.3	1054.9	1131.4	1097.9	971.9	817.7	702.9
42.5°	583.6	614.6	668.5	756.2	889.2	1023.4	1069.9	996.7	851.4	705.6	601.2
45°	533.2	562.4	616.6	706.5	841.9	963.2	957.1	830.0	684.5	567.1	480.5
47.5°	485.4	511.0	561.8	653.6	786.4	872.9	815.5	680.3	556.9	462.8	401.0
50°	451.7	476.9	527.4	618.0	741.9	805.0	723.1	592.8	479.8	401.8	352.7
52.5°	419.2	443.9	490.2	578.4	688.2	725.9	637.9	517.1	422.9	355.6	313.4
55°	374.0	392.8	434.3	518.8	600.7	609.4	520.2	419.1	341.5	294.5	265.7
57.5°	327.9	344.0	385.0	452.3	509.8	505.3	420.8	333.4	281.1	246.2	225.3
60°	297.8	313.7	349.8	407.6	450.9	435.7	358.2	287.8	243.0	217.4	200.8
62.5°	269.8	282.2	316.0	358.2	389.4	372.2	306.1	247.9	212.4	190.8	177.6
65°	229.2	239.3	266.5	288.4	305.8	289.2	234.3	193.9	168.2	153.1	144.0
67.5°	190.7	197.1	214.2	222.2	234.4	216.2	176.2	149.1	134.5	121.8	115.5
70°	166.5	171.2	180.1	186.6	189.9	171.2	141.5	121.7	109.4	100.4	96.4
72.5°	142.1	146.3	148.1	153.4	151.7	134.1	113.8	98.0	89.2	83.0	77.9
75°	108.7	110.5	108.7	106.5	101.8	89.5	75.5	67.5	61.0	58.2	56.4
77.5°	79.2	78.6	76.2	72.8	64.8	57.0	49.5	46.8	44.0	42.4	41.8
80°	61.0	59.6	57.4	52.0	45.1	39.7	37.9	36.1	35.1	33.2	32.9
82.5°	45.4	44.6	40.9	36.4	31.6	29.0	27.5	26.9	25.7	24.9	24.8
85°	24.2	23.1	19.1	16.6	15.9	15.2	14.8	14.8	13.4	13.0	13.0
87.5°	8.4	7.0	7.1	6.5	6.8	6.7	7.4	7.3	7.4	7.5	7.2
90°	2.9	4.4	6.6	8.1	9.6	11.8	14.0	16.2	18.4	17.7	18.4
92.5°	13.6	19.8	25.5	31.7	42.6	61.9	93.6	124.7	113.3	85.5	62.0
95°	27.2	35.3	47.9	67.0	95.8	158.4	268.2	389.1	437.0	354.5	265.3
97.5°	43.5	49.9	60.7	79.6	110.7	170.5	294.4	495.8	677.2	724.5	661.3
100°	55.2	60.4	70.8	88.4	117.2	168.7	277.8	471.6	697.9	843.0	868.8
102.5°	68.2	72.8	82.6	98.5	124.8	171.1	263.6	436.2	659.5	848.9	937.7
105°	87.7	92.1	100.9	115.0	137.8	177.6	253.4	392.8	592.5	804.0	958.0
107.5°	107.4	111.7	120.4	133.6	154.8	189.6	252.8	365.0	533.2	725.3	899.9
110°	121.6	125.3	133.4	145.9	166.5	199.7	255.7	354.5	499.6	675.7	844.5



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	134.6	138.3	146.4	158.9	178.9	209.7	261.6	348.6	477.2	632.7	789.7
115°	154.0	158.4	165.8	178.3	198.2	226.2	271.2	346.4	453.2	580.7	717.0
117.5°	173.1	176.8	183.6	197.7	216.0	243.7	283.9	347.7	439.0	549.3	664.4
120°	184.9	188.6	196.0	210.0	228.5	255.0	293.3	350.1	432.5	532.8	636.7
122.5°	196.1	199.8	207.8	221.2	240.8	266.7	302.1	354.1	428.5	519.2	614.9
125°	211.5	215.9	224.0	238.0	257.9	283.7	316.1	360.3	423.0	501.8	585.8
127.5°	224.4	229.9	238.2	253.6	273.5	298.4	327.6	367.4	420.4	486.5	560.5
130°	232.1	238.7	247.6	263.1	283.0	307.3	335.3	372.1	418.6	478.2	544.6
132.5°	238.7	245.8	256.5	271.9	291.2	314.9	342.3	375.7	417.9	470.6	529.8
135°	249.1	257.2	268.2	283.7	303.6	326.4	351.5	381.0	417.1	460.5	509.9
137.5°	258.9	266.9	278.7	294.0	312.5	334.4	358.3	384.6	415.5	451.9	491.8
140°	266.0	273.4	285.2	299.9	318.3	339.7	361.8	386.9	414.9	446.6	481.2
142.5°	272.5	280.5	291.1	305.9	323.0	343.8	365.3	388.6	413.7	441.9	471.2
145°	283.0	289.6	300.7	313.2	330.2	349.3	369.2	389.8	411.9	435.5	459.1
147.5°	293.6	300.1	309.6	321.7	336.2	353.7	371.6	389.8	409.2	429.3	449.2
150°	300.7	306.5	316.1	326.4	339.7	356.7	372.1	389.8	406.8	425.2	442.1
152.5°	307.7	313.6	322.1	331.1	343.8	358.4	373.3	388.0	403.8	420.5	435.6
155°	319.1	323.5	330.8	338.9	349.3	361.8	373.6	386.2	398.7	413.4	425.9
157.5°	328.8	332.3	338.8	345.7	353.7	363.7	374.4	383.6	394.1	405.5	415.6
160°	335.3	338.3	344.1	349.3	356.7	365.5	374.4	382.5	390.6	400.1	409.7
162.5°	340.6	343.0	347.7	352.2	358.4	366.1	373.7	380.1	387.0	394.8	402.7
165°	347.8	349.3	353.0	355.9	361.1	366.9	372.1	376.5	381.7	387.6	393.5
167.5°	353.7	354.5	357.2	359.3	362.6	366.8	371.0	373.1	376.5	380.7	385.5
170°	356.7	357.4	359.6	361.1	362.6	366.3	369.2	370.7	372.9	376.5	380.2
172.5°	359.6	359.8	361.4	362.2	363.2	366.3	368.6	368.9	369.9	372.4	375.5
175°	362.6	361.8	363.3	363.3	364.0	365.5	366.9	366.3	366.3	367.7	369.2
177.5°	364.0	363.4	364.0	364.0	364.0	364.6	365.8	364.6	364.0	364.6	365.2
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

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°	7.3	7.4	7.4	7.3	7.2	7.9	7.2
90°	19.1	19.9	21.4	20.6	21.4	22.1	21.4
92.5°	49.2	43.5	39.7	38.4	36.1	36.9	35.5
95°	179.8	140.7	114.2	100.2	93.6	88.4	85.5
97.5°	529.7	434.6	346.5	292.1	258.9	239.0	232.7
100°	809.1	722.9	618.2	543.8	490.0	461.3	462.0
102.5°	935.9	885.6	819.3	761.4	718.8	694.7	677.8
105°	1031.6	1045.7	1026.5	992.6	964.6	941.0	937.4
107.5°	1019.5	1084.1	1110.3	1111.0	1101.5	1093.5	1086.8
110°	980.1	1072.9	1124.5	1145.1	1151.0	1149.5	1148.1



TEST NUMBER: P332284-830

CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	928.2	1032.3	1098.5	1136.3	1154.6	1160.2	1160.5
115°	845.2	953.6	1033.9	1089.1	1121.5	1136.3	1140.0
117.5°	775.1	872.3	953.9	1011.4	1048.6	1069.8	1074.9
120°	736.1	824.6	899.0	957.2	998.5	1016.2	1020.6
122.5°	704.9	786.8	856.0	907.7	944.8	964.3	969.9
125°	666.2	736.9	795.9	843.0	875.4	893.8	899.0
127.5°	632.1	696.0	749.6	791.5	819.3	835.9	840.7
130°	610.9	670.6	720.7	759.8	786.3	801.7	807.7
132.5°	590.9	646.4	694.2	730.8	757.4	771.1	775.2
135°	562.2	610.1	652.1	688.2	710.4	723.6	728.8
137.5°	534.7	576.0	612.4	642.7	665.2	676.4	679.8
140°	518.8	554.1	585.8	613.9	634.4	646.3	645.5
142.5°	503.4	534.1	561.7	585.5	603.8	614.4	613.7
145°	483.4	507.0	528.4	546.8	562.2	568.2	569.6
147.5°	468.5	487.6	502.8	516.7	527.2	532.8	533.4
150°	459.1	474.6	488.5	499.6	507.7	512.2	512.2
152.5°	450.3	463.9	475.6	484.3	491.8	494.5	494.5
155°	437.7	448.7	457.6	464.2	470.1	471.6	472.3
157.5°	425.5	434.0	440.9	446.7	451.1	452.3	452.1
160°	417.8	425.2	430.4	435.5	439.9	439.9	439.2
162.5°	409.5	416.3	420.9	424.3	428.1	428.1	427.4
165°	397.9	403.1	406.8	409.7	412.6	411.9	411.9
167.5°	388.9	391.9	394.5	395.9	397.9	397.2	397.2
170°	382.5	385.4	386.9	387.6	389.1	388.3	388.3
172.5°	377.1	379.5	380.4	380.5	382.0	380.7	380.1
175°	369.9	371.4	371.4	371.4	372.1	371.4	370.7
177.5°	365.8	366.4	366.4	365.8	366.4	365.2	365.2
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0

(END OF REPORT)