

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: P332278-830

Luminaire Tested: **S123RDIP-S560D585U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332278-830
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-S560D585U830-4F0-1E-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: 4099.9 lumens
Efficiency: N/A
Efficacy: 125.0 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

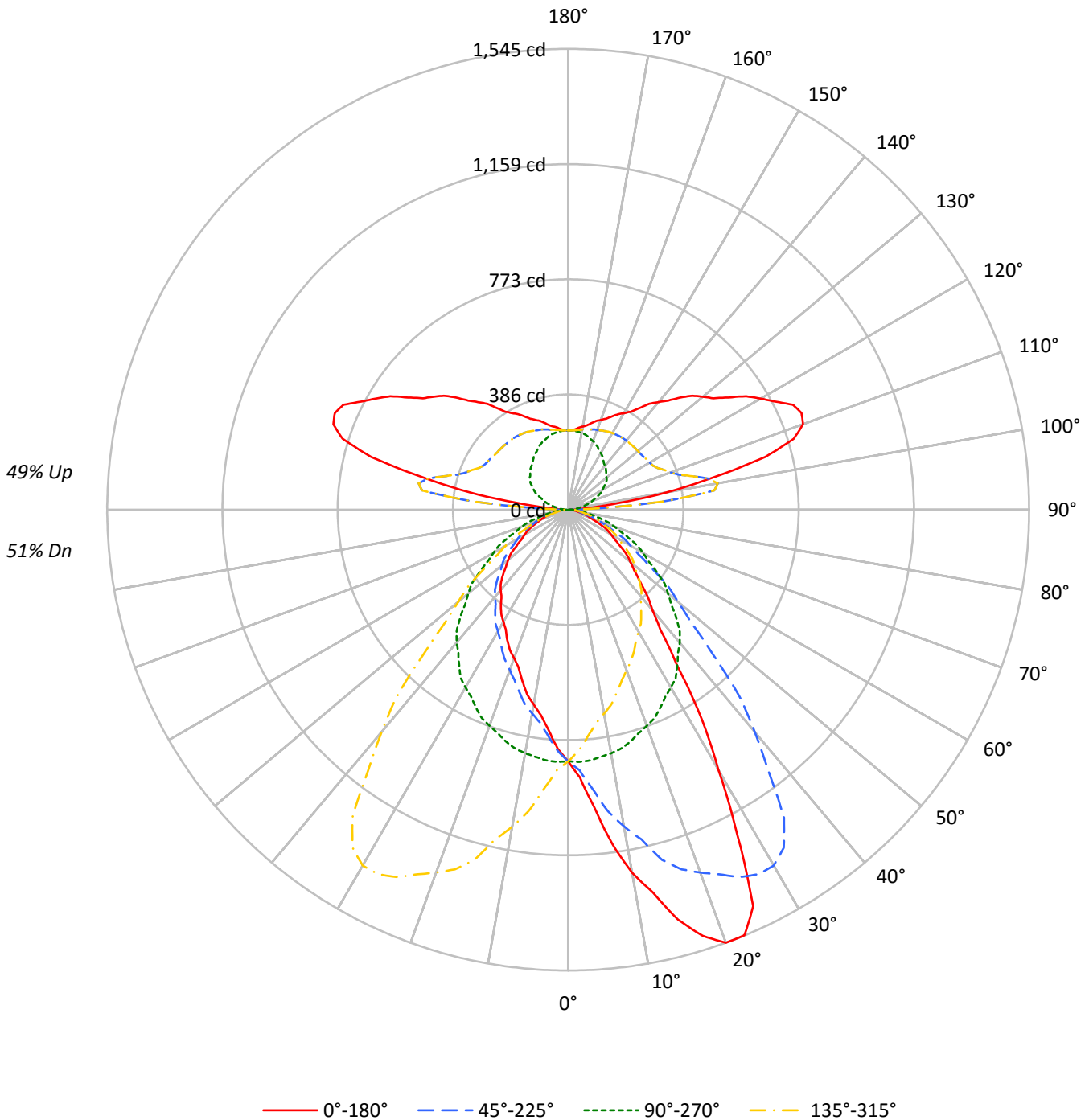
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	2.0
10°-20°	259.1	6.3
20°-30°	407.0	9.9
30°-40°	424.7	10.4
40°-50°	363.4	8.9
50°-60°	277.0	6.8
60°-70°	177.6	4.3
70°-80°	85.4	2.1
80°-90°	24.7	0.6
90°-100°	147.8	3.6
100°-110°	418.5	10.2
110°-120°	411.7	10.0
120°-130°	328.4	8.0
130°-140°	258.9	6.3
140°-150°	193.2	4.7
150°-160°	134.7	3.3
160°-170°	79.1	1.9
170°-180°	25.7	0.6
0°-30°	749.1	18.3
0°-40°	1173.7	28.6
0°-60°	1814.2	44.2
0°-90°	2101.8	51.3
90°-120°	978.0	23.9
90°-150°	1758.5	42.9
90°-180°	1998.0	48.7
0°-180°	4099.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	843	843	843	843	843	
5°	1002	844	743	844	1002	103
15°	1423	805	594	805	1423	404
25°	1466	731	483	731	1466	630
35°	636	638	394	638	636	417
45°	339	512	310	512	339	267
55°	213	360	212	360	213	193
65°	123	222	133	222	123	121
75°	52	108	68	108	52	56
85°	12	25	24	25	12	14
90°	16	1	16	1	16	9
95°	62	18	62	18	62	112
105°	684	62	684	62	684	675
115°	832	110	832	110	832	808
125°	656	153	656	153	656	594
135°	532	180	532	180	532	412
145°	416	205	416	205	416	264
155°	345	233	345	233	345	161
165°	300	254	300	254	300	86
175°	270	265	270	265	270	26
180°	266	266	266	266	266	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	898.1	899.4	895.6	895.0	890.7	889.6	889.6	883.4	879.7	874.8	871.9
5°	1001.5	1007.2	1004.4	997.9	987.0	984.5	977.6	966.8	954.5	939.3	932.2
7.5°	1130.4	1138.3	1135.2	1125.2	1113.9	1104.7	1085.3	1067.3	1042.2	1020.1	1001.2
10°	1236.1	1227.8	1221.3	1211.5	1201.1	1184.1	1163.9	1136.1	1104.0	1078.7	1050.6
12.5°	1315.2	1313.9	1305.6	1295.6	1280.8	1264.7	1239.8	1206.0	1168.7	1132.1	1099.9
15°	1423.1	1425.3	1419.8	1409.4	1388.5	1359.9	1322.4	1308.3	1254.9	1215.1	1175.4
17.5°	1497.8	1497.3	1496.6	1482.1	1460.8	1440.4	1405.6	1368.6	1320.2	1264.2	1210.8
20°	1545.1	1541.5	1542.3	1526.0	1510.1	1486.7	1452.7	1398.9	1359.2	1294.6	1239.3
22.5°	1544.0	1543.2	1546.0	1540.4	1528.9	1510.9	1484.2	1438.8	1388.1	1322.9	1260.7
25°	1466.4	1463.6	1480.5	1485.2	1503.6	1506.8	1498.9	1474.0	1426.0	1358.9	1282.0
27.5°	1227.3	1225.7	1257.2	1296.6	1346.6	1385.4	1423.0	1441.1	1426.0	1377.9	1300.9
30°	1007.2	1041.1	1057.1	1114.1	1177.6	1253.4	1319.8	1383.0	1398.5	1377.6	1314.5
32.5°	836.2	865.8	879.1	928.1	987.3	1076.1	1175.7	1265.2	1328.4	1344.4	1306.4
35°	636.1	636.5	666.8	688.4	743.3	834.6	931.4	1051.2	1170.4	1260.7	1270.1
37.5°	507.6	509.3	527.7	549.3	590.5	638.8	724.0	823.6	961.2	1099.8	1181.0
40°	438.3	441.5	455.2	476.5	506.1	542.6	609.1	702.9	817.7	971.9	1097.9
42.5°	393.8	399.1	406.1	422.5	440.8	475.0	528.8	601.2	705.6	851.4	996.7
45°	339.3	342.2	347.6	355.2	371.8	395.7	431.8	480.5	567.1	684.5	830.0
47.5°	299.4	297.8	303.5	309.7	320.7	337.0	361.2	401.0	462.8	556.9	680.3
50°	272.2	271.8	275.8	280.5	291.0	302.9	322.7	352.7	401.8	479.8	592.8
52.5°	246.8	248.2	251.0	256.8	264.4	274.0	291.8	313.4	355.6	422.9	517.1
55°	213.0	214.1	218.0	221.3	226.7	236.5	247.7	265.7	294.5	341.5	419.1
57.5°	184.4	183.9	187.8	188.5	194.6	202.6	211.2	225.3	246.2	281.1	333.4
60°	165.3	164.3	167.5	170.0	173.2	179.7	187.0	200.8	217.4	243.0	287.8
62.5°	148.0	147.5	149.9	152.4	155.0	161.0	167.1	177.6	190.8	212.4	247.9
65°	122.7	123.9	124.9	126.0	127.4	131.0	136.9	144.0	153.1	168.2	193.9
67.5°	96.4	97.6	97.9	100.1	103.2	105.5	109.1	115.5	121.8	134.5	149.1
70°	77.9	77.6	77.9	79.1	83.0	87.0	91.7	96.4	100.4	109.4	121.7
72.5°	67.0	66.4	67.3	67.5	69.5	70.5	73.5	77.9	83.0	89.2	98.0
75°	52.0	52.0	52.0	52.0	53.4	54.2	55.2	56.4	58.2	61.0	67.5
77.5°	38.5	38.5	39.0	39.3	39.7	40.1	40.7	41.8	42.4	44.0	46.8
80°	30.3	30.7	30.3	30.7	30.7	31.4	31.8	32.9	33.2	35.1	36.1
82.5°	22.8	22.6	22.8	23.2	23.2	23.9	23.9	24.8	24.9	25.7	26.9
85°	12.3	11.6	12.3	11.9	12.6	11.9	12.3	13.0	13.0	13.4	14.8
87.5°	6.0	6.7	6.0	6.2	6.3	6.4	6.2	6.1	6.6	6.4	6.4
90°	15.6	16.1	15.6	15.1	15.6	14.5	13.9	13.5	12.9	13.5	11.8
92.5°	25.9	26.9	26.3	28.0	28.9	31.8	35.9	45.2	62.4	82.7	91.0
95°	62.4	64.5	68.2	73.1	83.3	102.6	131.2	193.5	258.5	318.8	283.9
97.5°	169.8	174.4	188.9	213.1	252.8	317.1	386.4	482.5	528.6	494.1	361.7
100°	337.1	336.6	357.5	396.7	451.0	527.4	590.3	633.9	615.0	509.1	344.0
102.5°	494.5	506.8	524.3	555.4	597.7	646.1	682.8	684.2	619.3	481.2	318.3
105°	683.8	686.5	703.7	724.2	748.9	762.9	752.6	698.9	586.5	432.3	286.5
107.5°	792.9	797.8	803.6	810.5	810.0	790.9	743.9	656.5	529.1	389.0	266.4
110°	837.5	838.7	839.7	835.5	820.4	782.8	715.0	616.0	492.9	364.5	258.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	846.6	846.4	842.4	829.0	801.4	753.1	677.1	576.1	461.6	348.2	254.3
115°	831.7	829.0	818.2	794.6	754.2	695.7	616.6	523.1	423.7	330.6	252.7
117.5°	784.1	780.5	765.0	737.9	695.9	636.4	565.4	484.7	400.8	320.3	253.6
120°	744.6	741.3	728.5	698.3	655.9	601.5	537.1	464.5	388.7	315.6	255.3
122.5°	707.6	703.5	689.3	662.2	624.4	574.0	514.3	448.6	378.8	312.5	258.4
125°	655.9	652.1	638.7	615.0	580.6	537.6	486.0	427.3	366.1	308.6	262.9
127.5°	613.3	609.8	597.7	577.5	546.9	507.7	461.2	408.9	355.0	306.6	268.1
130°	589.2	584.9	573.6	554.3	525.8	489.2	445.6	397.3	348.9	305.4	271.5
132.5°	565.5	562.5	552.5	533.2	506.4	471.6	431.0	386.5	343.3	304.9	274.1
135°	531.7	527.9	518.2	502.1	475.8	445.2	410.2	372.0	336.0	304.3	278.0
137.5°	495.9	493.4	485.2	468.9	446.8	420.2	390.1	358.8	329.7	303.1	280.5
140°	470.9	471.5	462.9	447.8	427.3	404.3	378.4	351.1	325.7	302.7	282.2
142.5°	447.7	448.3	440.5	427.2	409.7	389.6	367.3	343.7	322.3	301.8	283.5
145°	415.6	414.5	410.2	398.9	385.5	369.9	352.7	334.9	317.7	300.5	284.4
147.5°	389.1	388.7	384.6	376.9	366.7	355.7	341.8	327.7	313.2	298.5	284.4
150°	373.6	373.6	370.4	364.5	356.5	346.2	334.9	322.5	310.2	296.7	284.4
152.5°	360.7	360.7	358.8	353.3	346.9	338.5	328.5	317.8	306.8	294.6	283.1
155°	344.6	344.0	343.0	338.7	333.8	327.4	319.3	310.8	301.6	290.9	281.7
157.5°	329.9	330.0	329.1	325.9	321.7	316.7	310.4	303.2	295.8	287.5	279.8
160°	320.4	320.9	320.9	317.7	314.0	310.2	304.8	298.9	291.9	284.9	279.0
162.5°	311.8	312.4	312.4	309.5	307.1	303.8	298.8	293.8	288.0	282.4	277.3
165°	300.5	300.5	301.0	298.9	296.7	294.1	290.3	287.1	282.8	278.5	274.8
167.5°	289.7	289.7	290.3	288.8	287.9	285.9	283.7	281.3	277.8	274.6	272.1
170°	283.3	283.3	283.9	282.8	282.2	281.2	279.0	277.4	274.8	272.0	270.4
172.5°	277.3	277.8	278.7	277.6	277.5	276.8	275.1	274.0	271.7	269.8	269.1
175°	270.4	271.0	271.5	271.0	271.0	271.0	269.8	269.4	268.2	267.2	267.2
177.5°	266.5	266.5	267.3	266.8	267.3	267.3	266.8	266.5	266.0	265.6	266.0
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	870.7	869.9	865.8	861.2	855.2	851.1	847.9	846.2	841.0	834.6	830.3
5°	924.5	913.7	902.2	888.1	875.1	861.8	853.5	843.7	831.8	818.4	809.0
7.5°	982.1	960.9	938.0	914.5	891.1	870.2	851.7	835.8	816.9	797.8	784.3
10°	1026.3	995.3	963.2	930.3	900.3	872.2	850.6	829.2	806.5	784.5	767.9
12.5°	1066.5	1025.7	988.6	948.2	909.9	876.3	845.1	820.0	792.7	769.2	750.3
15°	1117.3	1075.4	1030.7	969.3	918.4	875.8	837.9	805.0	771.8	743.0	724.5
17.5°	1164.8	1101.8	1041.7	990.4	924.4	871.1	824.8	785.5	749.1	718.5	695.8
20°	1184.5	1123.5	1058.1	992.8	927.8	868.3	814.5	771.1	733.2	698.5	677.6
22.5°	1196.3	1127.2	1058.4	988.2	919.2	857.2	804.1	756.4	715.3	682.4	656.6
25°	1210.1	1127.8	1052.0	982.7	912.3	845.1	781.9	731.4	687.0	652.0	624.5
27.5°	1219.2	1122.4	1032.7	955.7	884.3	817.5	759.6	706.0	660.9	623.9	594.5
30°	1221.0	1118.0	1018.0	934.6	862.0	800.7	739.3	688.1	640.5	601.1	573.6
32.5°	1223.2	1107.4	998.2	909.6	835.3	774.5	718.9	669.9	621.0	582.3	554.3
35°	1213.7	1101.5	967.9	866.1	791.7	732.8	682.7	637.5	589.6	552.0	523.5
37.5°	1172.7	1078.0	936.5	817.1	739.3	684.9	643.9	604.6	560.6	520.1	493.2
40°	1131.4	1054.9	912.3	787.4	706.2	650.2	613.3	581.3	538.7	500.7	471.8
42.5°	1069.9	1023.4	889.2	756.2	668.5	614.6	583.6	553.5	516.1	477.6	450.4
45°	957.1	963.2	841.9	706.5	616.6	562.4	533.2	512.3	479.1	447.3	419.5
47.5°	815.5	872.9	786.4	653.6	561.8	511.0	485.4	467.1	444.8	413.6	388.2
50°	723.1	805.0	741.9	618.0	527.4	476.9	451.7	436.9	417.4	392.8	368.6
52.5°	637.9	725.9	688.2	578.4	490.2	443.9	419.2	407.1	391.6	368.5	346.7
55°	520.2	609.4	600.7	518.8	434.3	392.8	374.0	360.3	349.8	332.5	315.2
57.5°	420.8	505.3	509.8	452.3	385.0	344.0	327.9	317.5	310.7	297.7	281.6
60°	358.2	435.7	450.9	407.6	349.8	313.7	297.8	289.5	284.1	273.6	261.4
62.5°	306.1	372.2	389.4	358.2	316.0	282.2	269.8	261.8	258.2	249.1	238.3
65°	234.3	289.2	305.8	288.4	266.5	239.3	229.2	222.3	219.1	214.1	206.1
67.5°	176.2	216.2	234.4	222.2	214.2	197.1	190.7	187.0	184.1	180.7	174.0
70°	141.5	171.2	189.9	186.6	180.1	171.2	166.5	163.9	161.0	158.2	152.3
72.5°	113.8	134.1	151.7	153.4	148.1	146.3	142.1	141.1	139.3	135.9	132.7
75°	75.5	89.5	101.8	106.5	108.7	110.5	108.7	108.3	107.9	105.1	103.2
77.5°	49.5	57.0	64.8	72.8	76.2	78.6	79.2	80.5	79.6	78.0	77.2
80°	37.9	39.7	45.1	52.0	57.4	59.6	61.0	61.7	61.4	61.0	59.6
82.5°	27.5	29.0	31.6	36.4	40.9	44.6	45.4	45.2	46.1	46.3	45.1
85°	14.8	15.2	15.9	16.6	19.1	23.1	24.2	24.9	25.6	25.6	23.5
87.5°	6.7	6.0	6.3	6.1	6.8	6.7	8.2	9.4	10.0	9.0	9.3
90°	10.2	8.6	7.0	5.9	4.8	3.2	2.2	1.0	2.2	3.2	4.8
92.5°	68.2	45.1	31.1	23.1	18.6	14.4	9.9	6.7	9.9	14.4	18.6
95°	195.7	115.6	69.8	48.9	35.0	25.8	19.9	18.3	19.9	25.8	35.0
97.5°	214.7	124.4	80.8	58.1	44.3	36.4	31.8	31.2	31.8	36.4	44.3
100°	202.6	123.1	85.5	64.5	51.7	44.1	40.3	39.8	40.3	44.1	51.7
102.5°	192.4	124.8	91.0	71.8	60.2	53.2	49.8	48.8	49.8	53.2	60.2
105°	184.9	129.6	100.6	83.9	73.6	67.2	64.0	62.4	64.0	67.2	73.6
107.5°	184.4	138.4	112.9	97.5	87.8	81.5	78.4	76.7	78.4	81.5	87.8
110°	186.5	145.7	121.5	106.4	97.3	91.4	88.7	87.1	88.7	91.4	97.3



TEST NUMBER: P332278-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	190.9	153.0	130.5	115.9	106.8	100.9	98.2	96.5	98.2	100.9	106.8
115°	197.8	165.0	144.6	130.1	120.9	115.6	112.4	110.2	112.4	115.6	120.9
117.5°	207.1	177.9	157.6	144.2	133.9	129.0	126.3	123.9	126.3	129.0	133.9
120°	214.0	186.0	166.6	153.3	143.0	137.6	135.0	133.4	135.0	137.6	143.0
122.5°	220.5	194.6	175.7	161.4	151.6	145.8	143.1	141.5	143.1	145.8	151.6
125°	230.6	207.0	188.1	173.6	163.4	157.5	154.3	153.3	154.3	157.5	163.4
127.5°	239.0	217.7	199.5	185.0	173.7	167.8	163.7	162.1	163.7	167.8	173.7
130°	244.6	224.1	206.4	191.9	180.6	174.2	169.4	167.8	169.4	174.2	180.6
132.5°	249.8	229.8	212.4	198.4	187.1	179.4	174.1	172.0	174.1	179.4	187.1
135°	256.5	238.2	221.5	207.0	195.7	187.7	181.7	179.6	181.7	187.7	195.7
137.5°	261.4	243.9	227.9	214.5	203.3	194.7	188.9	186.6	188.9	194.7	203.3
140°	264.0	247.8	232.2	218.8	208.0	199.4	194.1	191.4	194.1	199.4	208.0
142.5°	266.6	250.8	235.7	223.1	212.4	204.6	198.8	196.5	198.8	204.6	212.4
145°	269.4	254.9	240.8	228.5	219.3	211.3	206.4	204.8	206.4	211.3	219.3
147.5°	271.1	258.1	245.2	234.7	225.9	219.0	214.1	213.2	214.1	219.0	225.9
150°	271.5	260.2	247.8	238.2	230.6	223.7	219.3	218.8	219.3	223.7	230.6
152.5°	272.4	261.5	250.8	241.6	235.0	228.8	224.5	224.4	224.5	228.8	235.0
155°	272.6	264.0	254.9	247.3	241.4	236.0	232.8	232.8	232.8	236.0	241.4
157.5°	273.1	265.3	258.1	252.2	247.2	242.4	239.9	239.4	239.9	242.4	247.2
160°	273.1	266.6	260.2	254.9	251.1	246.8	244.6	244.6	244.6	246.8	251.1
162.5°	272.7	267.1	261.5	256.9	253.6	250.2	248.5	248.5	248.5	250.2	253.6
165°	271.5	267.7	263.4	259.7	257.5	254.9	253.7	254.3	253.7	254.9	257.5
167.5°	270.6	267.6	264.5	262.1	260.6	258.5	258.1	258.7	258.1	258.5	260.6
170°	269.4	267.2	264.5	263.4	262.3	260.7	260.2	261.3	260.2	260.7	262.3
172.5°	268.9	267.2	264.9	264.3	263.6	262.5	262.3	263.0	262.3	262.5	263.6
175°	267.7	266.6	265.6	265.0	265.0	264.0	264.5	265.0	264.5	264.0	265.0
177.5°	266.8	266.0	265.6	265.6	265.6	265.1	265.6	266.0	265.6	265.1	265.6
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P332278-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-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°	9.2	10.4	10.9	11.6	12.2	12.3	12.4	12.5	12.9	13.0	13.2
90°	5.9	7.0	8.6	10.2	11.8	13.5	12.9	13.5	13.9	14.5	15.6
92.5°	23.1	31.1	45.1	68.2	91.0	82.7	62.4	45.2	35.9	31.8	28.9
95°	48.9	69.8	115.6	195.7	283.9	318.8	258.5	193.5	131.2	102.6	83.3
97.5°	58.1	80.8	124.4	214.7	361.7	494.1	528.6	482.5	386.4	317.1	252.8
100°	64.5	85.5	123.1	202.6	344.0	509.1	615.0	633.9	590.3	527.4	451.0
102.5°	71.8	91.0	124.8	192.4	318.3	481.2	619.3	684.2	682.8	646.1	597.7
105°	83.9	100.6	129.6	184.9	286.5	432.3	586.5	698.9	752.6	762.9	748.9
107.5°	97.5	112.9	138.4	184.4	266.4	389.0	529.1	656.5	743.9	790.9	810.0
110°	106.4	121.5	145.7	186.5	258.5	364.5	492.9	616.0	715.0	782.8	820.4



TEST NUMBER: P332278-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	115.9	130.5	153.0	190.9	254.3	348.2	461.6	576.1	677.1	753.1	801.4
115°	130.1	144.6	165.0	197.8	252.7	330.6	423.7	523.1	616.6	695.7	754.2
117.5°	144.2	157.6	177.9	207.1	253.6	320.3	400.8	484.7	565.4	636.4	695.9
120°	153.3	166.6	186.0	214.0	255.3	315.6	388.7	464.5	537.1	601.5	655.9
122.5°	161.4	175.7	194.6	220.5	258.4	312.5	378.8	448.6	514.3	574.0	624.4
125°	173.6	188.1	207.0	230.6	262.9	308.6	366.1	427.3	486.0	537.6	580.6
127.5°	185.0	199.5	217.7	239.0	268.1	306.6	355.0	408.9	461.2	507.7	546.9
130°	191.9	206.4	224.1	244.6	271.5	305.4	348.9	397.3	445.6	489.2	525.8
132.5°	198.4	212.4	229.8	249.8	274.1	304.9	343.3	386.5	431.0	471.6	506.4
135°	207.0	221.5	238.2	256.5	278.0	304.3	336.0	372.0	410.2	445.2	475.8
137.5°	214.5	227.9	243.9	261.4	280.5	303.1	329.7	358.8	390.1	420.2	446.8
140°	218.8	232.2	247.8	264.0	282.2	302.7	325.7	351.1	378.4	404.3	427.3
142.5°	223.1	235.7	250.8	266.6	283.5	301.8	322.3	343.7	367.3	389.6	409.7
145°	228.5	240.8	254.9	269.4	284.4	300.5	317.7	334.9	352.7	369.9	385.5
147.5°	234.7	245.2	258.1	271.1	284.4	298.5	313.2	327.7	341.8	355.7	366.7
150°	238.2	247.8	260.2	271.5	284.4	296.7	310.2	322.5	334.9	346.2	356.5
152.5°	241.6	250.8	261.5	272.4	283.1	294.6	306.8	317.8	328.5	338.5	346.9
155°	247.3	254.9	264.0	272.6	281.7	290.9	301.6	310.8	319.3	327.4	333.8
157.5°	252.2	258.1	265.3	273.1	279.8	287.5	295.8	303.2	310.4	316.7	321.7
160°	254.9	260.2	266.6	273.1	279.0	284.9	291.9	298.9	304.8	310.2	314.0
162.5°	256.9	261.5	267.1	272.7	277.3	282.4	288.0	293.8	298.8	303.8	307.1
165°	259.7	263.4	267.7	271.5	274.8	278.5	282.8	287.1	290.3	294.1	296.7
167.5°	262.1	264.5	267.6	270.6	272.1	274.6	277.8	281.3	283.7	285.9	287.9
170°	263.4	264.5	267.2	269.4	270.4	272.0	274.8	277.4	279.0	281.2	282.2
172.5°	264.3	264.9	267.2	268.9	269.1	269.8	271.7	274.0	275.1	276.8	277.5
175°	265.0	265.6	266.6	267.7	267.2	267.2	268.2	269.4	269.8	271.0	271.0
177.5°	265.6	265.6	266.0	266.8	266.0	265.6	266.0	266.5	266.8	267.3	267.3
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P332278-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-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°	13.7	13.2	13.3	13.5	13.3	13.2	13.7	13.2	13.0	12.9	12.5
90°	15.1	15.6	16.1	15.6	16.1	15.6	15.1	15.6	14.5	13.9	13.5
92.5°	28.0	26.3	26.9	25.9	26.9	26.3	28.0	28.9	31.8	35.9	45.2
95°	73.1	68.2	64.5	62.4	64.5	68.2	73.1	83.3	102.6	131.2	193.5
97.5°	213.1	188.9	174.4	169.8	174.4	188.9	213.1	252.8	317.1	386.4	482.5
100°	396.7	357.5	336.6	337.1	336.6	357.5	396.7	451.0	527.4	590.3	633.9
102.5°	555.4	524.3	506.8	494.5	506.8	524.3	555.4	597.7	646.1	682.8	684.2
105°	724.2	703.7	686.5	683.8	686.5	703.7	724.2	748.9	762.9	752.6	698.9
107.5°	810.5	803.6	797.8	792.9	797.8	803.6	810.5	810.0	790.9	743.9	656.5
110°	835.5	839.7	838.7	837.5	838.7	839.7	835.5	820.4	782.8	715.0	616.0



TEST NUMBER: P332278-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	829.0	842.4	846.4	846.6	846.4	842.4	829.0	801.4	753.1	677.1	576.1
115°	794.6	818.2	829.0	831.7	829.0	818.2	794.6	754.2	695.7	616.6	523.1
117.5°	737.9	765.0	780.5	784.1	780.5	765.0	737.9	695.9	636.4	565.4	484.7
120°	698.3	728.5	741.3	744.6	741.3	728.5	698.3	655.9	601.5	537.1	464.5
122.5°	662.2	689.3	703.5	707.6	703.5	689.3	662.2	624.4	574.0	514.3	448.6
125°	615.0	638.7	652.1	655.9	652.1	638.7	615.0	580.6	537.6	486.0	427.3
127.5°	577.5	597.7	609.8	613.3	609.8	597.7	577.5	546.9	507.7	461.2	408.9
130°	554.3	573.6	584.9	589.2	584.9	573.6	554.3	525.8	489.2	445.6	397.3
132.5°	533.2	552.5	562.5	565.5	562.5	552.5	533.2	506.4	471.6	431.0	386.5
135°	502.1	518.2	527.9	531.7	527.9	518.2	502.1	475.8	445.2	410.2	372.0
137.5°	468.9	485.2	493.4	495.9	493.4	485.2	468.9	446.8	420.2	390.1	358.8
140°	447.8	462.9	471.5	470.9	471.5	462.9	447.8	427.3	404.3	378.4	351.1
142.5°	427.2	440.5	448.3	447.7	448.3	440.5	427.2	409.7	389.6	367.3	343.7
145°	398.9	410.2	414.5	415.6	414.5	410.2	398.9	385.5	369.9	352.7	334.9
147.5°	376.9	384.6	388.7	389.1	388.7	384.6	376.9	366.7	355.7	341.8	327.7
150°	364.5	370.4	373.6	373.6	373.6	370.4	364.5	356.5	346.2	334.9	322.5
152.5°	353.3	358.8	360.7	360.7	360.7	358.8	353.3	346.9	338.5	328.5	317.8
155°	338.7	343.0	344.0	344.6	344.0	343.0	338.7	333.8	327.4	319.3	310.8
157.5°	325.9	329.1	330.0	329.9	330.0	329.1	325.9	321.7	316.7	310.4	303.2
160°	317.7	320.9	320.9	320.4	320.9	320.9	317.7	314.0	310.2	304.8	298.9
162.5°	309.5	312.4	312.4	311.8	312.4	312.4	309.5	307.1	303.8	298.8	293.8
165°	298.9	301.0	300.5	300.5	300.5	301.0	298.9	296.7	294.1	290.3	287.1
167.5°	288.8	290.3	289.7	289.7	289.7	290.3	288.8	287.9	285.9	283.7	281.3
170°	282.8	283.9	283.3	283.3	283.3	283.9	282.8	282.2	281.2	279.0	277.4
172.5°	277.6	278.7	277.8	277.3	277.8	278.7	277.6	277.5	276.8	275.1	274.0
175°	271.0	271.5	271.0	270.4	271.0	271.5	271.0	271.0	271.0	269.8	269.4
177.5°	266.8	267.3	266.5	266.5	266.5	267.3	266.8	267.3	267.3	266.8	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P332278-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-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°	12.4	12.3	12.2	11.6	10.9	10.4	9.2	9.3	9.0	10.0	9.4
90°	12.9	13.5	11.8	10.2	8.6	7.0	5.9	4.8	3.2	2.2	1.0
92.5°	62.4	82.7	91.0	68.2	45.1	31.1	23.1	18.6	14.4	9.9	6.7
95°	258.5	318.8	283.9	195.7	115.6	69.8	48.9	35.0	25.8	19.9	18.3
97.5°	528.6	494.1	361.7	214.7	124.4	80.8	58.1	44.3	36.4	31.8	31.2
100°	615.0	509.1	344.0	202.6	123.1	85.5	64.5	51.7	44.1	40.3	39.8
102.5°	619.3	481.2	318.3	192.4	124.8	91.0	71.8	60.2	53.2	49.8	48.8
105°	586.5	432.3	286.5	184.9	129.6	100.6	83.9	73.6	67.2	64.0	62.4
107.5°	529.1	389.0	266.4	184.4	138.4	112.9	97.5	87.8	81.5	78.4	76.7
110°	492.9	364.5	258.5	186.5	145.7	121.5	106.4	97.3	91.4	88.7	87.1



TEST NUMBER: P332278-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	461.6	348.2	254.3	190.9	153.0	130.5	115.9	106.8	100.9	98.2	96.5
115°	423.7	330.6	252.7	197.8	165.0	144.6	130.1	120.9	115.6	112.4	110.2
117.5°	400.8	320.3	253.6	207.1	177.9	157.6	144.2	133.9	129.0	126.3	123.9
120°	388.7	315.6	255.3	214.0	186.0	166.6	153.3	143.0	137.6	135.0	133.4
122.5°	378.8	312.5	258.4	220.5	194.6	175.7	161.4	151.6	145.8	143.1	141.5
125°	366.1	308.6	262.9	230.6	207.0	188.1	173.6	163.4	157.5	154.3	153.3
127.5°	355.0	306.6	268.1	239.0	217.7	199.5	185.0	173.7	167.8	163.7	162.1
130°	348.9	305.4	271.5	244.6	224.1	206.4	191.9	180.6	174.2	169.4	167.8
132.5°	343.3	304.9	274.1	249.8	229.8	212.4	198.4	187.1	179.4	174.1	172.0
135°	336.0	304.3	278.0	256.5	238.2	221.5	207.0	195.7	187.7	181.7	179.6
137.5°	329.7	303.1	280.5	261.4	243.9	227.9	214.5	203.3	194.7	188.9	186.6
140°	325.7	302.7	282.2	264.0	247.8	232.2	218.8	208.0	199.4	194.1	191.4
142.5°	322.3	301.8	283.5	266.6	250.8	235.7	223.1	212.4	204.6	198.8	196.5
145°	317.7	300.5	284.4	269.4	254.9	240.8	228.5	219.3	211.3	206.4	204.8
147.5°	313.2	298.5	284.4	271.1	258.1	245.2	234.7	225.9	219.0	214.1	213.2
150°	310.2	296.7	284.4	271.5	260.2	247.8	238.2	230.6	223.7	219.3	218.8
152.5°	306.8	294.6	283.1	272.4	261.5	250.8	241.6	235.0	228.8	224.5	224.4
155°	301.6	290.9	281.7	272.6	264.0	254.9	247.3	241.4	236.0	232.8	232.8
157.5°	295.8	287.5	279.8	273.1	265.3	258.1	252.2	247.2	242.4	239.9	239.4
160°	291.9	284.9	279.0	273.1	266.6	260.2	254.9	251.1	246.8	244.6	244.6
162.5°	288.0	282.4	277.3	272.7	267.1	261.5	256.9	253.6	250.2	248.5	248.5
165°	282.8	278.5	274.8	271.5	267.7	263.4	259.7	257.5	254.9	253.7	254.3
167.5°	277.8	274.6	272.1	270.6	267.6	264.5	262.1	260.6	258.5	258.1	258.7
170°	274.8	272.0	270.4	269.4	267.2	264.5	263.4	262.3	260.7	260.2	261.3
172.5°	271.7	269.8	269.1	268.9	267.2	264.9	264.3	263.6	262.5	262.3	263.0
175°	268.2	267.2	267.2	267.7	266.6	265.6	265.0	265.0	264.0	264.5	265.0
177.5°	266.0	265.6	266.0	266.8	266.0	265.6	265.6	265.6	265.1	265.6	266.0
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P332278-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-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°	8.2	6.7	6.8	6.1	6.3	6.0	6.7	6.4	6.4	6.6	6.1
90°	2.2	3.2	4.8	5.9	7.0	8.6	10.2	11.8	13.5	12.9	13.5
92.5°	9.9	14.4	18.6	23.1	31.1	45.1	68.2	91.0	82.7	62.4	45.2
95°	19.9	25.8	35.0	48.9	69.8	115.6	195.7	283.9	318.8	258.5	193.5
97.5°	31.8	36.4	44.3	58.1	80.8	124.4	214.7	361.7	494.1	528.6	482.5
100°	40.3	44.1	51.7	64.5	85.5	123.1	202.6	344.0	509.1	615.0	633.9
102.5°	49.8	53.2	60.2	71.8	91.0	124.8	192.4	318.3	481.2	619.3	684.2
105°	64.0	67.2	73.6	83.9	100.6	129.6	184.9	286.5	432.3	586.5	698.9
107.5°	78.4	81.5	87.8	97.5	112.9	138.4	184.4	266.4	389.0	529.1	656.5
110°	88.7	91.4	97.3	106.4	121.5	145.7	186.5	258.5	364.5	492.9	616.0



TEST NUMBER: P332278-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	98.2	100.9	106.8	115.9	130.5	153.0	190.9	254.3	348.2	461.6	576.1
115°	112.4	115.6	120.9	130.1	144.6	165.0	197.8	252.7	330.6	423.7	523.1
117.5°	126.3	129.0	133.9	144.2	157.6	177.9	207.1	253.6	320.3	400.8	484.7
120°	135.0	137.6	143.0	153.3	166.6	186.0	214.0	255.3	315.6	388.7	464.5
122.5°	143.1	145.8	151.6	161.4	175.7	194.6	220.5	258.4	312.5	378.8	448.6
125°	154.3	157.5	163.4	173.6	188.1	207.0	230.6	262.9	308.6	366.1	427.3
127.5°	163.7	167.8	173.7	185.0	199.5	217.7	239.0	268.1	306.6	355.0	408.9
130°	169.4	174.2	180.6	191.9	206.4	224.1	244.6	271.5	305.4	348.9	397.3
132.5°	174.1	179.4	187.1	198.4	212.4	229.8	249.8	274.1	304.9	343.3	386.5
135°	181.7	187.7	195.7	207.0	221.5	238.2	256.5	278.0	304.3	336.0	372.0
137.5°	188.9	194.7	203.3	214.5	227.9	243.9	261.4	280.5	303.1	329.7	358.8
140°	194.1	199.4	208.0	218.8	232.2	247.8	264.0	282.2	302.7	325.7	351.1
142.5°	198.8	204.6	212.4	223.1	235.7	250.8	266.6	283.5	301.8	322.3	343.7
145°	206.4	211.3	219.3	228.5	240.8	254.9	269.4	284.4	300.5	317.7	334.9
147.5°	214.1	219.0	225.9	234.7	245.2	258.1	271.1	284.4	298.5	313.2	327.7
150°	219.3	223.7	230.6	238.2	247.8	260.2	271.5	284.4	296.7	310.2	322.5
152.5°	224.5	228.8	235.0	241.6	250.8	261.5	272.4	283.1	294.6	306.8	317.8
155°	232.8	236.0	241.4	247.3	254.9	264.0	272.6	281.7	290.9	301.6	310.8
157.5°	239.9	242.4	247.2	252.2	258.1	265.3	273.1	279.8	287.5	295.8	303.2
160°	244.6	246.8	251.1	254.9	260.2	266.6	273.1	279.0	284.9	291.9	298.9
162.5°	248.5	250.2	253.6	256.9	261.5	267.1	272.7	277.3	282.4	288.0	293.8
165°	253.7	254.9	257.5	259.7	263.4	267.7	271.5	274.8	278.5	282.8	287.1
167.5°	258.1	258.5	260.6	262.1	264.5	267.6	270.6	272.1	274.6	277.8	281.3
170°	260.2	260.7	262.3	263.4	264.5	267.2	269.4	270.4	272.0	274.8	277.4
172.5°	262.3	262.5	263.6	264.3	264.9	267.2	268.9	269.1	269.8	271.7	274.0
175°	264.5	264.0	265.0	265.0	265.6	266.6	267.7	267.2	267.2	268.2	269.4
177.5°	265.6	265.1	265.6	265.6	265.6	266.0	266.8	266.0	265.6	266.0	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	889.6	889.6	890.7	895.0	895.6	899.4	898.1
5°	977.6	984.5	987.0	997.9	1004.4	1007.2	1001.5
7.5°	1085.3	1104.7	1113.9	1125.2	1135.2	1138.3	1130.4
10°	1163.9	1184.1	1201.1	1211.5	1221.3	1227.8	1236.1
12.5°	1239.8	1264.7	1280.8	1295.6	1305.6	1313.9	1315.2
15°	1322.4	1359.9	1388.5	1409.4	1419.8	1425.3	1423.1
17.5°	1405.6	1440.4	1460.8	1482.1	1496.6	1497.3	1497.8
20°	1452.7	1486.7	1510.1	1526.0	1542.3	1541.5	1545.1
22.5°	1484.2	1510.9	1528.9	1540.4	1546.0	1543.2	1544.0
25°	1498.9	1506.8	1503.6	1485.2	1480.5	1463.6	1466.4
27.5°	1423.0	1385.4	1346.6	1296.6	1257.2	1225.7	1227.3
30°	1319.8	1253.4	1177.6	1114.1	1057.1	1041.1	1007.2
32.5°	1175.7	1076.1	987.3	928.1	879.1	865.8	836.2
35°	931.4	834.6	743.3	688.4	666.8	636.5	636.1
37.5°	724.0	638.8	590.5	549.3	527.7	509.3	507.6
40°	609.1	542.6	506.1	476.5	455.2	441.5	438.3
42.5°	528.8	475.0	440.8	422.5	406.1	399.1	393.8
45°	431.8	395.7	371.8	355.2	347.6	342.2	339.3
47.5°	361.2	337.0	320.7	309.7	303.5	297.8	299.4
50°	322.7	302.9	291.0	280.5	275.8	271.8	272.2
52.5°	291.8	274.0	264.4	256.8	251.0	248.2	246.8
55°	247.7	236.5	226.7	221.3	218.0	214.1	213.0
57.5°	211.2	202.6	194.6	188.5	187.8	183.9	184.4
60°	187.0	179.7	173.2	170.0	167.5	164.3	165.3
62.5°	167.1	161.0	155.0	152.4	149.9	147.5	148.0
65°	136.9	131.0	127.4	126.0	124.9	123.9	122.7
67.5°	109.1	105.5	103.2	100.1	97.9	97.6	96.4
70°	91.7	87.0	83.0	79.1	77.9	77.6	77.9
72.5°	73.5	70.5	69.5	67.5	67.3	66.4	67.0
75°	55.2	54.2	53.4	52.0	52.0	52.0	52.0
77.5°	40.7	40.1	39.7	39.3	39.0	38.5	38.5
80°	31.8	31.4	30.7	30.7	30.3	30.7	30.3
82.5°	23.9	23.9	23.2	23.2	22.8	22.6	22.8
85°	12.3	11.9	12.6	11.9	12.3	11.6	12.3
87.5°	6.2	6.4	6.3	6.2	6.0	6.7	6.0
90°	13.9	14.5	15.6	15.1	15.6	16.1	15.6
92.5°	35.9	31.8	28.9	28.0	26.3	26.9	25.9
95°	131.2	102.6	83.3	73.1	68.2	64.5	62.4
97.5°	386.4	317.1	252.8	213.1	188.9	174.4	169.8
100°	590.3	527.4	451.0	396.7	357.5	336.6	337.1
102.5°	682.8	646.1	597.7	555.4	524.3	506.8	494.5
105°	752.6	762.9	748.9	724.2	703.7	686.5	683.8
107.5°	743.9	790.9	810.0	810.5	803.6	797.8	792.9
110°	715.0	782.8	820.4	835.5	839.7	838.7	837.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	677.1	753.1	801.4	829.0	842.4	846.4	846.6
115°	616.6	695.7	754.2	794.6	818.2	829.0	831.7
117.5°	565.4	636.4	695.9	737.9	765.0	780.5	784.1
120°	537.1	601.5	655.9	698.3	728.5	741.3	744.6
122.5°	514.3	574.0	624.4	662.2	689.3	703.5	707.6
125°	486.0	537.6	580.6	615.0	638.7	652.1	655.9
127.5°	461.2	507.7	546.9	577.5	597.7	609.8	613.3
130°	445.6	489.2	525.8	554.3	573.6	584.9	589.2
132.5°	431.0	471.6	506.4	533.2	552.5	562.5	565.5
135°	410.2	445.2	475.8	502.1	518.2	527.9	531.7
137.5°	390.1	420.2	446.8	468.9	485.2	493.4	495.9
140°	378.4	404.3	427.3	447.8	462.9	471.5	470.9
142.5°	367.3	389.6	409.7	427.2	440.5	448.3	447.7
145°	352.7	369.9	385.5	398.9	410.2	414.5	415.6
147.5°	341.8	355.7	366.7	376.9	384.6	388.7	389.1
150°	334.9	346.2	356.5	364.5	370.4	373.6	373.6
152.5°	328.5	338.5	346.9	353.3	358.8	360.7	360.7
155°	319.3	327.4	333.8	338.7	343.0	344.0	344.6
157.5°	310.4	316.7	321.7	325.9	329.1	330.0	329.9
160°	304.8	310.2	314.0	317.7	320.9	320.9	320.4
162.5°	298.8	303.8	307.1	309.5	312.4	312.4	311.8
165°	290.3	294.1	296.7	298.9	301.0	300.5	300.5
167.5°	283.7	285.9	287.9	288.8	290.3	289.7	289.7
170°	279.0	281.2	282.2	282.8	283.9	283.3	283.3
172.5°	275.1	276.8	277.5	277.6	278.7	277.8	277.3
175°	269.8	271.0	271.0	271.0	271.5	271.0	270.4
177.5°	266.8	267.3	267.3	266.8	267.3	266.5	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6

(END OF REPORT)