

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: P332284-930

Luminaire Tested: **S123RDIP-S560D805U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332284-930
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-S560D805U930-4F0-1E-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: 4187.8 lumens
Efficiency: N/A
Efficacy: 109.1 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

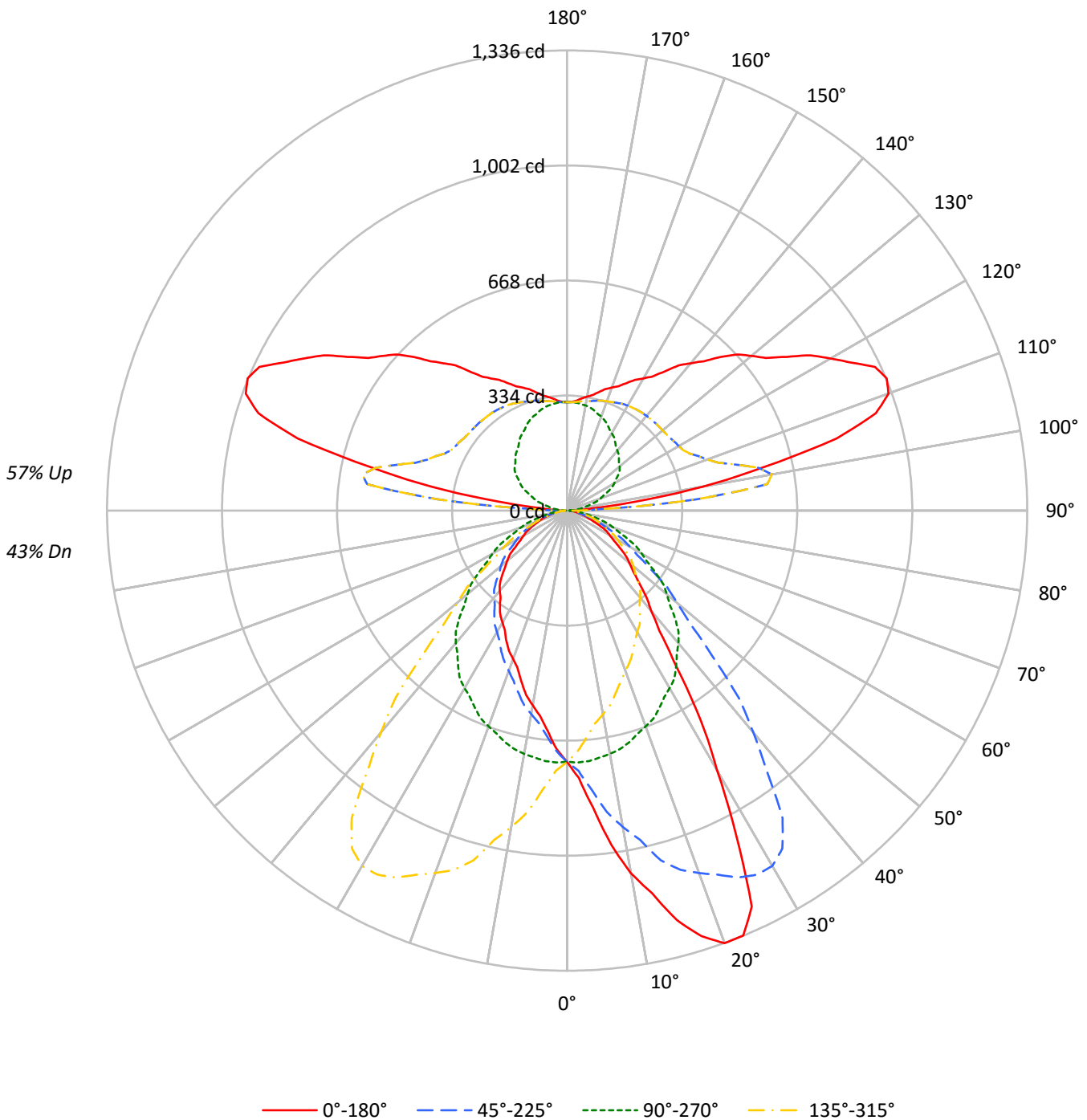
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7851	7851	7851	7851
5°	9360	7886	6944	7886
10°	11687	7840	6274	7840
15°	13718	7759	5721	7759
20°	15309	7640	5251	7640
25°	15064	7514	4962	7514
30°	10828	7398	4666	7398
35°	7230	7247	4473	7247
40°	5327	7065	4274	7065
45°	4468	6745	4078	6745
50°	3944	6328	3806	6328
55°	3459	5849	3434	5849
60°	3078	5393	3147	5393
65°	2705	4898	2929	4898
70°	2121	4463	2675	4463
75°	1871	3897	2441	3897
80°	1630	3310	2399	3310
85°	1309	2655	2544	2655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	1.7
10°-20°	224.1	5.4
20°-30°	352.1	8.4
30°-40°	367.3	8.8
40°-50°	314.4	7.5
50°-60°	239.6	5.7
60°-70°	153.6	3.7
70°-80°	73.9	1.8
80°-90°	22.0	0.5
90°-100°	175.2	4.2
100°-110°	496.2	11.8
110°-120°	488.1	11.7
120°-130°	389.3	9.3
130°-140°	307.0	7.3
140°-150°	229.1	5.5
150°-160°	159.7	3.8
160°-170°	93.8	2.2
170°-180°	30.5	0.7
0°-30°	647.9	15.5
0°-40°	1015.3	24.2
0°-60°	1569.3	37.5
0°-90°	1818.7	43.4
90°-120°	1159.6	27.7
90°-150°	2085.0	49.8
90°-180°	2369.0	56.6
0°-180°	4187.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	729	729	729	729	729	
5°	866	730	643	730	866	89
15°	1231	696	513	696	1231	349
25°	1268	633	418	633	1268	545
35°	550	552	340	552	550	361
45°	294	443	268	443	294	231
55°	184	312	183	312	184	167
65°	106	192	115	192	106	104
75°	45	94	59	94	45	48
85°	11	22	21	22	11	13
90°	18	1	18	1	18	10
95°	74	22	74	22	74	133
105°	811	74	811	74	811	800
115°	986	131	986	131	986	958
125°	778	182	778	182	778	705
135°	630	213	630	213	630	489
145°	493	243	493	243	493	313
155°	408	276	408	276	408	191
165°	356	302	356	302	356	102
175°	321	314	321	314	321	31
180°	315	315	315	315	315	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	776.9	778.0	774.7	774.2	770.5	769.5	769.5	764.2	760.9	756.7	754.2
5°	866.3	871.2	868.8	863.2	853.8	851.6	845.6	836.3	825.7	812.5	806.3
7.5°	977.8	984.6	981.9	973.3	963.5	955.5	938.8	923.2	901.5	882.4	866.0
10°	1069.3	1062.0	1056.5	1048.0	1038.9	1024.3	1006.8	982.8	955.0	933.1	908.7
12.5°	1137.7	1136.5	1129.4	1120.7	1107.9	1094.0	1072.4	1043.2	1010.9	979.3	951.5
15°	1231.0	1232.9	1228.2	1219.1	1201.0	1176.3	1143.9	1131.7	1085.5	1051.1	1016.8
17.5°	1295.6	1295.2	1294.5	1282.0	1263.6	1245.9	1215.9	1183.8	1142.0	1093.6	1047.3
20°	1336.5	1333.4	1334.1	1320.0	1306.3	1286.0	1256.6	1210.1	1175.7	1119.8	1072.0
22.5°	1335.5	1334.9	1337.3	1332.4	1322.5	1306.9	1283.9	1244.6	1200.7	1144.3	1090.5
25°	1268.4	1266.0	1280.7	1284.7	1300.6	1303.4	1296.6	1275.0	1233.5	1175.4	1108.9
27.5°	1061.6	1060.2	1087.4	1121.5	1164.8	1198.4	1230.9	1246.5	1233.5	1191.9	1125.3
30°	871.2	900.6	914.4	963.7	1018.6	1084.2	1141.7	1196.3	1209.7	1191.6	1137.0
32.5°	723.3	748.9	760.4	802.8	854.0	930.8	1017.0	1094.4	1149.1	1162.9	1130.0
35°	550.2	550.6	576.7	595.5	642.9	721.9	805.7	909.3	1012.4	1090.5	1098.6
37.5°	439.0	440.6	456.5	475.2	510.8	552.5	626.2	712.4	831.4	951.3	1021.6
40°	379.1	381.9	393.8	412.2	437.8	469.4	526.8	608.0	707.3	840.7	949.7
42.5°	340.6	345.2	351.3	365.5	381.3	410.9	457.4	520.1	610.3	736.5	862.2
45°	293.5	296.0	300.7	307.3	321.6	342.3	373.5	415.6	490.6	592.1	718.0
47.5°	258.9	257.6	262.5	267.9	277.4	291.5	312.4	346.8	400.3	481.7	588.5
50°	235.5	235.1	238.6	242.6	251.7	262.0	279.2	305.1	347.6	415.0	512.7
52.5°	213.4	214.7	217.1	222.2	228.7	237.0	252.4	271.1	307.6	365.8	447.3
55°	184.3	185.2	188.6	191.4	196.1	204.6	214.3	229.8	254.8	295.4	362.6
57.5°	159.5	159.1	162.4	163.1	168.4	175.2	182.7	194.9	213.0	243.1	288.4
60°	143.0	142.1	144.9	147.1	149.9	155.5	161.8	173.7	188.0	210.2	248.9
62.5°	128.0	127.6	129.6	131.8	134.1	139.3	144.6	153.6	165.0	183.7	214.4
65°	106.2	107.1	108.0	109.0	110.2	113.3	118.4	124.6	132.4	145.5	167.7
67.5°	83.4	84.4	84.7	86.6	89.3	91.2	94.3	99.9	105.3	116.3	129.0
70°	67.4	67.1	67.4	68.4	71.8	75.3	79.3	83.4	86.8	94.7	105.3
72.5°	58.0	57.4	58.2	58.4	60.1	61.0	63.6	67.4	71.8	77.1	84.8
75°	45.0	45.0	45.0	45.0	46.2	46.9	47.8	48.8	50.3	52.7	58.4
77.5°	33.3	33.3	33.8	34.0	34.3	34.7	35.2	36.2	36.7	38.1	40.4
80°	26.3	26.6	26.3	26.6	26.6	27.1	27.5	28.5	28.7	30.3	31.2
82.5°	19.7	19.6	19.7	20.1	20.1	20.7	20.7	21.4	21.5	22.3	23.2
85°	10.6	10.0	10.6	10.3	10.9	10.3	10.6	11.3	11.3	11.6	12.8
87.5°	6.2	6.8	6.2	6.3	6.4	6.4	6.3	6.2	6.5	6.4	6.3
90°	18.5	19.2	18.5	17.9	18.5	17.2	16.6	15.9	15.3	15.9	14.0
92.5°	30.7	31.9	31.2	33.2	34.3	37.6	42.6	53.6	73.9	98.0	107.9
95°	73.9	76.5	81.0	86.7	98.8	121.7	155.6	229.5	306.6	378.0	336.6
97.5°	201.3	206.8	224.0	252.7	299.7	375.9	458.2	572.0	626.7	585.8	428.8
100°	399.7	399.0	423.9	470.4	534.8	625.3	699.9	751.5	729.2	603.6	408.0
102.5°	586.3	601.0	621.7	658.6	708.7	766.1	809.5	811.1	734.3	570.5	377.3
105°	810.8	814.0	834.4	858.6	887.9	904.5	892.3	828.7	695.5	512.5	339.7
107.5°	940.0	945.9	952.8	961.0	960.4	937.8	881.9	778.4	627.4	461.2	315.8
110°	993.1	994.3	995.6	990.5	972.7	928.1	847.7	730.5	584.5	432.2	306.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1003.8	1003.6	998.7	982.9	950.2	892.9	802.9	683.1	547.3	412.8	301.5
115°	986.1	982.9	970.1	942.1	894.3	824.8	731.1	620.2	502.3	392.0	299.6
117.5°	929.8	925.4	907.0	874.9	825.1	754.6	670.4	574.7	475.2	379.8	300.8
120°	882.8	879.0	863.7	828.0	777.6	713.3	636.7	550.7	460.9	374.1	302.8
122.5°	838.9	834.1	817.3	785.1	740.5	680.6	609.8	531.9	449.1	370.6	306.3
125°	777.6	773.1	757.2	729.2	688.4	637.4	576.3	506.7	434.1	365.9	311.7
127.5°	727.2	723.1	708.7	684.7	648.4	602.0	546.7	484.9	420.9	363.6	317.8
130°	698.6	693.5	680.1	657.2	623.4	580.1	528.4	471.1	413.7	362.1	321.9
132.5°	670.6	667.0	655.2	632.2	600.5	559.1	511.1	458.3	407.1	361.5	325.0
135°	630.4	625.9	614.5	595.3	564.1	527.7	486.3	441.1	398.4	360.8	329.5
137.5°	588.0	585.1	575.4	556.0	529.7	498.2	462.5	425.4	390.9	359.4	332.6
140°	558.4	559.1	548.8	531.0	506.7	479.3	448.7	416.2	386.3	358.9	334.7
142.5°	530.8	531.5	522.3	506.5	485.8	462.0	435.5	407.6	382.2	357.8	336.1
145°	492.7	491.5	486.3	473.0	457.1	438.5	418.2	397.1	376.7	356.3	337.2
147.5°	461.4	460.9	456.0	446.9	434.9	421.8	405.3	388.6	371.4	353.9	337.2
150°	443.0	443.0	439.2	432.2	422.6	410.5	397.1	382.5	367.8	351.9	337.2
152.5°	427.7	427.7	425.4	418.9	411.4	401.3	389.5	376.8	363.7	349.3	335.7
155°	408.5	408.0	406.7	401.5	395.8	388.2	378.6	368.4	357.6	344.9	334.0
157.5°	391.1	391.3	390.2	386.4	381.4	375.4	368.0	359.5	350.7	340.9	331.8
160°	379.9	380.5	380.5	376.7	372.3	367.8	361.4	354.4	346.1	337.9	330.8
162.5°	369.7	370.3	370.3	367.0	364.1	360.1	354.2	348.3	341.5	334.8	328.8
165°	356.3	356.3	356.9	354.4	351.9	348.7	344.2	340.4	335.3	330.2	325.7
167.5°	343.6	343.6	344.2	342.4	341.3	339.0	336.4	333.5	329.3	325.6	322.7
170°	335.9	335.9	336.6	335.3	334.7	333.4	330.8	328.9	325.7	322.5	320.7
172.5°	328.8	329.3	330.4	329.1	329.1	328.2	326.2	324.8	322.1	320.0	319.1
175°	320.7	321.2	321.9	321.2	321.2	321.2	320.0	319.4	318.0	316.8	316.8
177.5°	315.9	315.9	316.9	316.4	316.9	316.9	316.4	315.9	315.4	314.9	315.4
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	753.2	752.4	748.9	744.9	739.7	736.2	733.4	732.0	727.5	721.9	718.2
5°	799.7	790.4	780.4	768.2	756.9	745.4	738.3	729.8	719.5	707.9	699.8
7.5°	849.5	831.2	811.4	791.0	770.8	752.7	736.7	723.0	706.6	690.1	678.4
10°	887.8	861.0	833.2	804.7	778.8	754.5	735.7	717.3	697.7	678.6	664.2
12.5°	922.5	887.2	855.2	820.2	787.1	758.0	731.0	709.3	685.7	665.4	649.0
15°	966.5	930.3	891.5	838.5	794.4	757.6	724.8	696.3	667.6	642.7	626.7
17.5°	1007.5	953.1	901.1	856.7	799.6	753.5	713.5	679.5	648.0	621.5	601.9
20°	1024.6	971.8	915.3	858.8	802.6	751.1	704.5	667.0	634.2	604.2	586.1
22.5°	1034.8	975.0	915.5	854.8	795.1	741.5	695.5	654.3	618.7	590.3	567.9
25°	1046.8	975.5	910.0	850.0	789.1	731.0	676.4	632.7	594.3	563.9	540.2
27.5°	1054.6	970.9	893.3	826.7	764.9	707.1	657.0	610.7	571.7	539.6	514.2
30°	1056.1	967.1	880.6	808.5	745.7	692.6	639.5	595.2	554.0	519.9	496.2
32.5°	1058.1	957.9	863.4	786.8	722.5	669.9	621.8	579.4	537.2	503.7	479.5
35°	1049.9	952.8	837.2	749.2	684.9	633.9	590.5	551.5	510.0	477.4	452.8
37.5°	1014.4	932.5	810.1	706.8	639.5	592.4	557.0	523.0	484.9	449.9	426.6
40°	978.7	912.5	789.1	681.1	610.8	562.4	530.5	502.8	465.9	433.1	408.1
42.5°	925.4	885.3	769.2	654.1	578.3	531.7	504.8	478.7	446.5	413.1	389.6
45°	827.9	833.2	728.2	611.1	533.4	486.5	461.2	443.1	414.4	386.9	362.9
47.5°	705.4	755.0	680.2	565.3	486.0	442.0	419.9	404.1	384.7	357.8	335.8
50°	625.5	696.3	641.7	534.6	456.2	412.5	390.7	377.9	361.0	339.7	318.9
52.5°	551.8	627.9	595.3	500.3	424.0	384.0	362.6	352.1	338.8	318.8	299.9
55°	450.0	527.1	519.6	448.7	375.7	339.7	323.5	311.7	302.6	287.6	272.6
57.5°	363.9	437.1	441.0	391.3	333.0	297.6	283.6	274.7	268.7	257.5	243.6
60°	309.8	376.9	390.0	352.5	302.6	271.3	257.6	250.5	245.7	236.7	226.1
62.5°	264.8	322.0	336.8	309.8	273.4	244.1	233.4	226.5	223.3	215.5	206.1
65°	202.7	250.1	264.5	249.5	230.5	207.0	198.3	192.3	189.6	185.2	178.3
67.5°	152.4	187.0	202.8	192.2	185.3	170.5	164.9	161.8	159.2	156.3	150.5
70°	122.4	148.1	164.3	161.4	155.8	148.1	144.0	141.8	139.3	136.8	131.8
72.5°	98.4	116.0	131.3	132.7	128.1	126.5	122.9	122.1	120.5	117.6	114.8
75°	65.3	77.5	88.1	92.1	94.0	95.6	94.0	93.7	93.4	90.9	89.3
77.5°	42.8	49.3	56.0	62.9	65.9	68.0	68.5	69.6	68.8	67.5	66.8
80°	32.8	34.3	39.1	45.0	49.7	51.5	52.7	53.4	53.1	52.7	51.5
82.5°	23.8	25.1	27.3	31.5	35.4	38.6	39.3	39.1	39.9	40.0	39.1
85°	12.8	13.1	13.8	14.3	16.6	20.0	21.0	21.5	22.2	22.2	20.3
87.5°	6.4	5.8	5.9	5.6	6.1	6.0	7.3	8.2	8.7	8.0	8.4
90°	12.1	10.2	8.3	7.0	5.7	3.8	2.5	1.3	2.5	3.8	5.7
92.5°	81.0	53.6	36.9	27.4	22.1	17.1	11.7	7.9	11.7	17.1	22.1
95°	232.0	137.1	82.8	58.0	41.4	30.6	23.6	21.7	23.6	30.6	41.4
97.5°	254.6	147.5	95.7	68.8	52.5	43.1	37.6	36.9	37.6	43.1	52.5
100°	240.3	145.9	101.3	76.5	61.2	52.3	47.8	47.2	47.8	52.3	61.2
102.5°	228.0	148.0	107.9	85.2	71.4	62.9	59.0	57.9	59.0	62.9	71.4
105°	219.2	153.6	119.2	99.5	87.3	79.7	75.8	73.9	75.8	79.7	87.3
107.5°	218.7	164.0	133.9	115.5	104.1	96.6	92.9	91.0	92.9	96.6	104.1
110°	221.2	172.8	144.1	126.2	115.4	108.4	105.2	103.3	105.2	108.4	115.4



TEST NUMBER: P332284-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	226.2	181.4	154.7	137.5	126.6	119.6	116.4	114.5	116.4	119.6	126.6
115°	234.6	195.7	171.5	154.3	143.4	137.1	133.2	130.7	133.2	137.1	143.4
117.5°	245.6	210.8	186.9	171.0	158.8	153.0	149.8	146.8	149.8	153.0	158.8
120°	253.7	220.5	197.6	181.6	169.6	163.1	160.0	158.1	160.0	163.1	169.6
122.5°	261.3	230.7	208.3	191.4	179.8	172.8	169.7	167.8	169.7	172.8	179.8
125°	273.5	245.4	223.1	205.9	193.8	186.8	183.0	181.6	183.0	186.8	193.8
127.5°	283.4	258.1	236.6	219.4	206.0	198.9	194.1	192.2	194.1	198.9	206.0
130°	290.0	265.8	244.8	227.6	214.2	206.5	200.8	198.9	200.8	206.5	214.2
132.5°	296.1	272.4	251.9	235.2	221.8	212.6	206.4	204.0	206.4	212.6	221.8
135°	304.0	282.3	262.6	245.4	232.0	222.5	215.5	212.9	215.5	222.5	232.0
137.5°	309.9	289.3	270.3	254.3	241.1	230.9	224.0	221.3	224.0	230.9	241.1
140°	313.0	293.8	275.3	259.4	246.7	236.5	230.1	226.9	230.1	236.5	246.7
142.5°	316.0	297.4	279.4	264.6	251.8	242.6	235.7	233.0	235.7	242.6	251.8
145°	319.4	302.1	285.6	270.9	260.1	250.5	244.8	242.9	244.8	250.5	260.1
147.5°	321.4	306.0	290.8	278.3	267.8	259.6	254.0	252.8	254.0	259.6	267.8
150°	321.9	308.5	293.8	282.3	273.5	265.1	260.1	259.4	260.1	265.1	273.5
152.5°	322.9	310.1	297.4	286.4	278.6	271.3	266.2	266.0	266.2	271.3	278.6
155°	323.2	313.0	302.1	293.2	286.2	279.8	276.0	276.0	276.0	279.8	286.2
157.5°	323.8	314.6	306.0	299.1	293.1	287.5	284.4	283.9	284.4	287.5	293.1
160°	323.8	316.2	308.5	302.1	297.7	292.6	290.0	290.0	290.0	292.6	297.7
162.5°	323.3	316.7	310.1	304.7	300.8	296.7	294.6	294.6	294.6	296.7	300.8
165°	321.9	317.4	312.3	307.9	305.3	302.1	300.8	301.5	300.8	302.1	305.3
167.5°	320.9	317.3	313.6	310.8	309.0	306.6	306.0	306.7	306.0	306.6	309.0
170°	319.4	316.8	313.6	312.3	311.0	309.2	308.5	309.8	308.5	309.2	311.0
172.5°	318.9	316.8	314.1	313.3	312.6	311.2	311.0	311.9	311.0	311.2	312.6
175°	317.4	316.2	314.9	314.2	314.2	313.0	313.6	314.2	313.6	313.0	314.2
177.5°	316.4	315.4	314.9	314.9	314.9	314.4	314.9	315.4	314.9	314.4	314.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



TEST NUMBER: P332284-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	717.0	713.7	711.5	706.5	703.3	699.8	696.3	698.5	698.2	698.0	698.0
5°	692.9	685.7	679.2	670.7	665.4	658.9	653.9	653.3	654.5	650.1	647.7
7.5°	669.1	659.3	650.0	640.7	630.8	622.9	618.0	615.7	612.5	609.8	607.0
10°	652.3	640.8	631.7	620.2	609.6	600.2	594.3	590.2	588.0	585.8	581.8
12.5°	635.1	623.8	612.2	599.2	589.1	578.2	573.8	569.2	565.0	562.6	557.0
15°	609.8	595.2	583.0	569.2	558.1	547.4	541.2	532.1	530.8	527.7	522.1
17.5°	584.6	568.7	551.9	541.7	529.0	518.0	508.4	505.4	496.4	493.1	488.2
20°	564.6	549.9	537.1	523.7	505.2	495.0	487.5	483.4	476.2	471.8	468.7
22.5°	547.4	532.4	517.6	502.0	486.7	475.2	469.7	463.4	459.5	453.4	450.0
25°	522.8	506.5	488.7	471.8	460.9	452.2	443.4	437.8	432.2	429.3	423.1
27.5°	494.2	477.2	460.6	447.8	434.3	425.7	417.8	412.8	406.0	401.3	397.9
30°	478.4	458.4	444.1	432.5	415.3	407.2	401.3	395.0	390.0	385.1	381.6
32.5°	460.2	441.9	428.3	414.0	400.8	392.0	384.3	378.8	374.5	369.8	366.4
35°	431.5	416.3	402.2	387.8	378.1	369.1	360.0	355.4	351.3	346.9	343.8
37.5°	405.7	391.4	378.1	364.4	352.5	345.0	337.8	334.2	328.7	325.8	322.6
40°	389.7	375.7	361.3	348.2	335.7	330.1	323.5	318.2	313.2	311.0	307.6
42.5°	372.3	358.2	346.1	331.9	321.7	314.1	308.0	302.2	298.5	295.3	293.3
45°	346.3	333.8	322.0	307.9	298.2	291.6	284.8	279.5	276.1	273.9	270.4
47.5°	321.1	308.7	296.6	284.4	275.0	267.5	260.7	256.9	252.4	249.7	247.4
50°	302.9	291.6	278.8	267.6	258.3	250.8	245.2	240.4	236.4	232.9	231.4
52.5°	286.2	274.2	263.1	252.7	242.8	234.2	229.2	224.2	221.2	217.2	215.4
55°	258.5	247.0	237.7	227.3	217.7	210.5	204.2	199.8	196.7	192.3	189.9
57.5°	232.6	222.3	211.1	202.2	192.2	186.1	180.9	175.0	171.2	167.8	165.3
60°	215.2	203.3	193.6	185.2	176.4	168.6	164.0	159.2	155.2	151.7	149.6
62.5°	196.9	186.5	177.4	168.2	160.2	153.4	148.0	144.0	140.5	138.3	136.1
65°	168.9	160.9	151.5	144.0	136.5	131.5	127.1	123.7	121.2	119.6	117.7
67.5°	143.2	135.3	127.2	119.8	114.8	111.0	108.1	105.2	104.0	101.9	100.7
70°	126.5	118.4	111.2	105.6	100.5	97.8	95.9	93.7	92.5	89.9	88.7
72.5°	108.3	102.4	97.2	92.5	88.5	86.0	83.6	81.0	78.9	76.2	74.9
75°	85.3	80.0	75.9	72.7	70.3	66.9	63.4	60.6	59.7	58.7	58.4
77.5°	63.1	59.8	56.8	54.2	51.1	48.6	47.9	47.2	47.0	46.6	46.6
80°	49.7	46.6	44.4	41.3	39.4	39.4	39.4	38.7	39.1	39.1	39.1
82.5°	36.9	34.0	32.9	31.7	31.4	31.6	31.6	31.7	31.6	32.0	31.8
85°	19.1	19.3	20.0	19.6	20.0	20.0	20.6	20.3	20.6	20.0	20.6
87.5°	8.4	9.4	10.0	10.7	11.3	11.4	11.6	11.7	12.1	12.1	12.5
90°	7.0	8.3	10.2	12.1	14.0	15.9	15.3	15.9	16.6	17.2	18.5
92.5°	27.4	36.9	53.6	81.0	107.9	98.0	73.9	53.6	42.6	37.6	34.3
95°	58.0	82.8	137.1	232.0	336.6	378.0	306.6	229.5	155.6	121.7	98.8
97.5°	68.8	95.7	147.5	254.6	428.8	585.8	626.7	572.0	458.2	375.9	299.7
100°	76.5	101.3	145.9	240.3	408.0	603.6	729.2	751.5	699.9	625.3	534.8
102.5°	85.2	107.9	148.0	228.0	377.3	570.5	734.3	811.1	809.5	766.1	708.7
105°	99.5	119.2	153.6	219.2	339.7	512.5	695.5	828.7	892.3	904.5	887.9
107.5°	115.5	133.9	164.0	218.7	315.8	461.2	627.4	778.4	881.9	937.8	960.4
110°	126.2	144.1	172.8	221.2	306.6	432.2	584.5	730.5	847.7	928.1	972.7



TEST NUMBER: P332284-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	137.5	154.7	181.4	226.2	301.5	412.8	547.3	683.1	802.9	892.9	950.2
115°	154.3	171.5	195.7	234.6	299.6	392.0	502.3	620.2	731.1	824.8	894.3
117.5°	171.0	186.9	210.8	245.6	300.8	379.8	475.2	574.7	670.4	754.6	825.1
120°	181.6	197.6	220.5	253.7	302.8	374.1	460.9	550.7	636.7	713.3	777.6
122.5°	191.4	208.3	230.7	261.3	306.3	370.6	449.1	531.9	609.8	680.6	740.5
125°	205.9	223.1	245.4	273.5	311.7	365.9	434.1	506.7	576.3	637.4	688.4
127.5°	219.4	236.6	258.1	283.4	317.8	363.6	420.9	484.9	546.7	602.0	648.4
130°	227.6	244.8	265.8	290.0	321.9	362.1	413.7	471.1	528.4	580.1	623.4
132.5°	235.2	251.9	272.4	296.1	325.0	361.5	407.1	458.3	511.1	559.1	600.5
135°	245.4	262.6	282.3	304.0	329.5	360.8	398.4	441.1	486.3	527.7	564.1
137.5°	254.3	270.3	289.3	309.9	332.6	359.4	390.9	425.4	462.5	498.2	529.7
140°	259.4	275.3	293.8	313.0	334.7	358.9	386.3	416.2	448.7	479.3	506.7
142.5°	264.6	279.4	297.4	316.0	336.1	357.8	382.2	407.6	435.5	462.0	485.8
145°	270.9	285.6	302.1	319.4	337.2	356.3	376.7	397.1	418.2	438.5	457.1
147.5°	278.3	290.8	306.0	321.4	337.2	353.9	371.4	388.6	405.3	421.8	434.9
150°	282.3	293.8	308.5	321.9	337.2	351.9	367.8	382.5	397.1	410.5	422.6
152.5°	286.4	297.4	310.1	322.9	335.7	349.3	363.7	376.8	389.5	401.3	411.4
155°	293.2	302.1	313.0	323.2	334.0	344.9	357.6	368.4	378.6	388.2	395.8
157.5°	299.1	306.0	314.6	323.8	331.8	340.9	350.7	359.5	368.0	375.4	381.4
160°	302.1	308.5	316.2	323.8	330.8	337.9	346.1	354.4	361.4	367.8	372.3
162.5°	304.7	310.1	316.7	323.3	328.8	334.8	341.5	348.3	354.2	360.1	364.1
165°	307.9	312.3	317.4	321.9	325.7	330.2	335.3	340.4	344.2	348.7	351.9
167.5°	310.8	313.6	317.3	320.9	322.7	325.6	329.3	333.5	336.4	339.0	341.3
170°	312.3	313.6	316.8	319.4	320.7	322.5	325.7	328.9	330.8	333.4	334.7
172.5°	313.3	314.1	316.8	318.9	319.1	320.0	322.1	324.8	326.2	328.2	329.1
175°	314.2	314.9	316.2	317.4	316.8	316.8	318.0	319.4	320.0	321.2	321.2
177.5°	314.9	314.9	315.4	316.4	315.4	314.9	315.4	315.9	316.4	316.9	316.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



TEST NUMBER: P332284-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	695.0	694.7	695.0	694.0	695.0	694.7	695.0	698.0	698.0	698.2	698.5
5°	646.7	646.4	645.5	642.7	645.5	646.4	646.7	647.7	650.1	654.5	653.3
7.5°	604.5	604.1	601.4	601.4	601.4	604.1	604.5	607.0	609.8	612.5	615.7
10°	579.6	579.9	576.2	574.0	576.2	579.9	579.6	581.8	585.8	588.0	590.2
12.5°	555.4	553.9	550.9	548.5	550.9	553.9	555.4	557.0	562.6	565.0	569.2
15°	523.3	520.2	512.7	513.4	512.7	520.2	523.3	522.1	527.7	530.8	532.1
17.5°	485.7	483.4	483.3	478.9	483.3	483.4	485.7	488.2	493.1	496.4	505.4
20°	463.7	462.2	462.8	458.4	462.8	462.2	463.7	468.7	471.8	476.2	483.4
22.5°	446.5	444.9	442.3	440.9	442.3	444.9	446.5	450.0	453.4	459.5	463.4
25°	421.3	418.7	416.3	417.8	416.3	418.7	421.3	423.1	429.3	432.2	437.8
27.5°	396.0	394.1	391.7	391.3	391.7	394.1	396.0	397.9	401.3	406.0	412.8
30°	380.0	378.1	376.9	375.4	376.9	378.1	380.0	381.6	385.1	390.0	395.0
32.5°	363.8	363.5	361.2	360.9	361.2	363.5	363.8	366.4	369.8	374.5	378.8
35°	342.6	340.7	340.1	340.4	340.1	340.7	342.6	343.8	346.9	351.3	355.4
37.5°	322.4	319.9	318.8	317.6	318.8	319.9	322.4	322.6	325.8	328.7	334.2
40°	307.9	305.4	304.8	304.2	304.8	305.4	307.9	307.6	311.0	313.2	318.2
42.5°	291.6	290.7	290.3	289.2	290.3	290.7	291.6	293.3	295.3	298.5	302.2
45°	269.5	269.2	267.3	267.9	267.3	269.2	269.5	270.4	273.9	276.1	279.5
47.5°	246.1	244.8	243.4	244.3	243.4	244.8	246.1	247.4	249.7	252.4	256.9
50°	230.2	229.5	226.7	227.3	226.7	229.5	230.2	231.4	232.9	236.4	240.4
52.5°	214.2	211.8	210.8	210.3	210.8	211.8	214.2	215.4	217.2	221.2	224.2
55°	187.7	184.8	183.6	183.0	183.6	184.8	187.7	189.9	192.3	196.7	199.8
57.5°	161.7	160.9	160.0	160.6	160.0	160.9	161.7	165.3	167.8	171.2	175.0
60°	146.4	146.4	146.4	146.2	146.4	146.4	146.4	149.6	151.7	155.2	159.2
62.5°	134.7	134.0	133.7	134.1	133.7	134.0	134.7	136.1	138.3	140.5	144.0
65°	116.8	116.5	115.2	115.0	115.2	116.5	116.8	117.7	119.6	121.2	123.7
67.5°	99.9	98.7	98.4	97.9	98.4	98.7	99.9	100.7	101.9	104.0	105.2
70°	87.2	86.5	84.6	85.0	84.6	86.5	87.2	88.7	89.9	92.5	93.7
72.5°	73.4	72.7	72.4	71.9	72.4	72.7	73.4	74.9	76.2	78.9	81.0
75°	58.0	57.8	57.5	58.7	57.5	57.8	58.0	58.4	58.7	59.7	60.6
77.5°	46.6	46.6	46.7	46.2	46.7	46.6	46.6	46.6	46.6	47.0	47.2
80°	39.1	39.1	38.7	38.7	38.7	39.1	39.1	39.1	39.1	39.1	38.7
82.5°	31.3	31.6	31.7	31.2	31.7	31.6	31.3	31.8	32.0	31.6	31.7
85°	20.6	20.3	21.0	20.6	21.0	20.3	20.6	20.6	20.0	20.6	20.3
87.5°	12.8	12.5	12.6	12.7	12.6	12.5	12.8	12.5	12.1	12.1	11.7
90°	17.9	18.5	19.2	18.5	19.2	18.5	17.9	18.5	17.2	16.6	15.9
92.5°	33.2	31.2	31.9	30.7	31.9	31.2	33.2	34.3	37.6	42.6	53.6
95°	86.7	81.0	76.5	73.9	76.5	81.0	86.7	98.8	121.7	155.6	229.5
97.5°	252.7	224.0	206.8	201.3	206.8	224.0	252.7	299.7	375.9	458.2	572.0
100°	470.4	423.9	399.0	399.7	399.0	423.9	470.4	534.8	625.3	699.9	751.5
102.5°	658.6	621.7	601.0	586.3	601.0	621.7	658.6	708.7	766.1	809.5	811.1
105°	858.6	834.4	814.0	810.8	814.0	834.4	858.6	887.9	904.5	892.3	828.7
107.5°	961.0	952.8	945.9	940.0	945.9	952.8	961.0	960.4	937.8	881.9	778.4
110°	990.5	995.6	994.3	993.1	994.3	995.6	990.5	972.7	928.1	847.7	730.5



TEST NUMBER: P332284-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	982.9	998.7	1003.6	1003.8	1003.6	998.7	982.9	950.2	892.9	802.9	683.1
115°	942.1	970.1	982.9	986.1	982.9	970.1	942.1	894.3	824.8	731.1	620.2
117.5°	874.9	907.0	925.4	929.8	925.4	907.0	874.9	825.1	754.6	670.4	574.7
120°	828.0	863.7	879.0	882.8	879.0	863.7	828.0	777.6	713.3	636.7	550.7
122.5°	785.1	817.3	834.1	838.9	834.1	817.3	785.1	740.5	680.6	609.8	531.9
125°	729.2	757.2	773.1	777.6	773.1	757.2	729.2	688.4	637.4	576.3	506.7
127.5°	684.7	708.7	723.1	727.2	723.1	708.7	684.7	648.4	602.0	546.7	484.9
130°	657.2	680.1	693.5	698.6	693.5	680.1	657.2	623.4	580.1	528.4	471.1
132.5°	632.2	655.2	667.0	670.6	667.0	655.2	632.2	600.5	559.1	511.1	458.3
135°	595.3	614.5	625.9	630.4	625.9	614.5	595.3	564.1	527.7	486.3	441.1
137.5°	556.0	575.4	585.1	588.0	585.1	575.4	556.0	529.7	498.2	462.5	425.4
140°	531.0	548.8	559.1	558.4	559.1	548.8	531.0	506.7	479.3	448.7	416.2
142.5°	506.5	522.3	531.5	530.8	531.5	522.3	506.5	485.8	462.0	435.5	407.6
145°	473.0	486.3	491.5	492.7	491.5	486.3	473.0	457.1	438.5	418.2	397.1
147.5°	446.9	456.0	460.9	461.4	460.9	456.0	446.9	434.9	421.8	405.3	388.6
150°	432.2	439.2	443.0	443.0	443.0	439.2	432.2	422.6	410.5	397.1	382.5
152.5°	418.9	425.4	427.7	427.7	427.7	425.4	418.9	411.4	401.3	389.5	376.8
155°	401.5	406.7	408.0	408.5	408.0	406.7	401.5	395.8	388.2	378.6	368.4
157.5°	386.4	390.2	391.3	391.1	391.3	390.2	386.4	381.4	375.4	368.0	359.5
160°	376.7	380.5	380.5	379.9	380.5	380.5	376.7	372.3	367.8	361.4	354.4
162.5°	367.0	370.3	370.3	369.7	370.3	370.3	367.0	364.1	360.1	354.2	348.3
165°	354.4	356.9	356.3	356.3	356.3	356.9	354.4	351.9	348.7	344.2	340.4
167.5°	342.4	344.2	343.6	343.6	343.6	344.2	342.4	341.3	339.0	336.4	333.5
170°	335.3	336.6	335.9	335.9	335.9	336.6	335.3	334.7	333.4	330.8	328.9
172.5°	329.1	330.4	329.3	328.8	329.3	330.4	329.1	329.1	328.2	326.2	324.8
175°	321.2	321.9	321.2	320.7	321.2	321.9	321.2	321.2	321.2	320.0	319.4
177.5°	316.4	316.9	315.9	315.9	315.9	316.9	316.4	316.9	316.9	316.4	315.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



TEST NUMBER: P332284-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	696.3	699.8	703.3	706.5	711.5	713.7	717.0	718.2	721.9	727.5	732.0
5°	653.9	658.9	665.4	670.7	679.2	685.7	692.9	699.8	707.9	719.5	729.8
7.5°	618.0	622.9	630.8	640.7	650.0	659.3	669.1	678.4	690.1	706.6	723.0
10°	594.3	600.2	609.6	620.2	631.7	640.8	652.3	664.2	678.6	697.7	717.3
12.5°	573.8	578.2	589.1	599.2	612.2	623.8	635.1	649.0	665.4	685.7	709.3
15°	541.2	547.4	558.1	569.2	583.0	595.2	609.8	626.7	642.7	667.6	696.3
17.5°	508.4	518.0	529.0	541.7	551.9	568.7	584.6	601.9	621.5	648.0	679.5
20°	487.5	495.0	505.2	523.7	537.1	549.9	564.6	586.1	604.2	634.2	667.0
22.5°	469.7	475.2	486.7	502.0	517.6	532.4	547.4	567.9	590.3	618.7	654.3
25°	443.4	452.2	460.9	471.8	488.7	506.5	522.8	540.2	563.9	594.3	632.7
27.5°	417.8	425.7	434.3	447.8	460.6	477.2	494.2	514.2	539.6	571.7	610.7
30°	401.3	407.2	415.3	432.5	444.1	458.4	478.4	496.2	519.9	554.0	595.2
32.5°	384.3	392.0	400.8	414.0	428.3	441.9	460.2	479.5	503.7	537.2	579.4
35°	360.0	369.1	378.1	387.8	402.2	416.3	431.5	452.8	477.4	510.0	551.5
37.5°	337.8	345.0	352.5	364.4	378.1	391.4	405.7	426.6	449.9	484.9	523.0
40°	323.5	330.1	335.7	348.2	361.3	375.7	389.7	408.1	433.1	465.9	502.8
42.5°	308.0	314.1	321.7	331.9	346.1	358.2	372.3	389.6	413.1	446.5	478.7
45°	284.8	291.6	298.2	307.9	322.0	333.8	346.3	362.9	386.9	414.4	443.1
47.5°	260.7	267.5	275.0	284.4	296.6	308.7	321.1	335.8	357.8	384.7	404.1
50°	245.2	250.8	258.3	267.6	278.8	291.6	302.9	318.9	339.7	361.0	377.9
52.5°	229.2	234.2	242.8	252.7	263.1	274.2	286.2	299.9	318.8	338.8	352.1
55°	204.2	210.5	217.7	227.3	237.7	247.0	258.5	272.6	287.6	302.6	311.7
57.5°	180.9	186.1	192.2	202.2	211.1	222.3	232.6	243.6	257.5	268.7	274.7
60°	164.0	168.6	176.4	185.2	193.6	203.3	215.2	226.1	236.7	245.7	250.5
62.5°	148.0	153.4	160.2	168.2	177.4	186.5	196.9	206.1	215.5	223.3	226.5
65°	127.1	131.5	136.5	144.0	151.5	160.9	168.9	178.3	185.2	189.6	192.3
67.5°	108.1	111.0	114.8	119.8	127.2	135.3	143.2	150.5	156.3	159.2	161.8
70°	95.9	97.8	100.5	105.6	111.2	118.4	126.5	131.8	136.8	139.3	141.8
72.5°	83.6	86.0	88.5	92.5	97.2	102.4	108.3	114.8	117.6	120.5	122.1
75°	63.4	66.9	70.3	72.7	75.9	80.0	85.3	89.3	90.9	93.4	93.7
77.5°	47.9	48.6	51.1	54.2	56.8	59.8	63.1	66.8	67.5	68.8	69.6
80°	39.4	39.4	39.4	41.3	44.4	46.6	49.7	51.5	52.7	53.1	53.4
82.5°	31.6	31.6	31.4	31.7	32.9	34.0	36.9	39.1	40.0	39.9	39.1
85°	20.6	20.0	20.0	19.6	20.0	19.3	19.1	20.3	22.2	22.2	21.5
87.5°	11.6	11.4	11.3	10.7	10.0	9.4	8.4	8.4	8.0	8.7	8.2
90°	15.3	15.9	14.0	12.1	10.2	8.3	7.0	5.7	3.8	2.5	1.3
92.5°	73.9	98.0	107.9	81.0	53.6	36.9	27.4	22.1	17.1	11.7	7.9
95°	306.6	378.0	336.6	232.0	137.1	82.8	58.0	41.4	30.6	23.6	21.7
97.5°	626.7	585.8	428.8	254.6	147.5	95.7	68.8	52.5	43.1	37.6	36.9
100°	729.2	603.6	408.0	240.3	145.9	101.3	76.5	61.2	52.3	47.8	47.2
102.5°	734.3	570.5	377.3	228.0	148.0	107.9	85.2	71.4	62.9	59.0	57.9
105°	695.5	512.5	339.7	219.2	153.6	119.2	99.5	87.3	79.7	75.8	73.9
107.5°	627.4	461.2	315.8	218.7	164.0	133.9	115.5	104.1	96.6	92.9	91.0
110°	584.5	432.2	306.6	221.2	172.8	144.1	126.2	115.4	108.4	105.2	103.3



TEST NUMBER: P332284-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	547.3	412.8	301.5	226.2	181.4	154.7	137.5	126.6	119.6	116.4	114.5
115°	502.3	392.0	299.6	234.6	195.7	171.5	154.3	143.4	137.1	133.2	130.7
117.5°	475.2	379.8	300.8	245.6	210.8	186.9	171.0	158.8	153.0	149.8	146.8
120°	460.9	374.1	302.8	253.7	220.5	197.6	181.6	169.6	163.1	160.0	158.1
122.5°	449.1	370.6	306.3	261.3	230.7	208.3	191.4	179.8	172.8	169.7	167.8
125°	434.1	365.9	311.7	273.5	245.4	223.1	205.9	193.8	186.8	183.0	181.6
127.5°	420.9	363.6	317.8	283.4	258.1	236.6	219.4	206.0	198.9	194.1	192.2
130°	413.7	362.1	321.9	290.0	265.8	244.8	227.6	214.2	206.5	200.8	198.9
132.5°	407.1	361.5	325.0	296.1	272.4	251.9	235.2	221.8	212.6	206.4	204.0
135°	398.4	360.8	329.5	304.0	282.3	262.6	245.4	232.0	222.5	215.5	212.9
137.5°	390.9	359.4	332.6	309.9	289.3	270.3	254.3	241.1	230.9	224.0	221.3
140°	386.3	358.9	334.7	313.0	293.8	275.3	259.4	246.7	236.5	230.1	226.9
142.5°	382.2	357.8	336.1	316.0	297.4	279.4	264.6	251.8	242.6	235.7	233.0
145°	376.7	356.3	337.2	319.4	302.1	285.6	270.9	260.1	250.5	244.8	242.9
147.5°	371.4	353.9	337.2	321.4	306.0	290.8	278.3	267.8	259.6	254.0	252.8
150°	367.8	351.9	337.2	321.9	308.5	293.8	282.3	273.5	265.1	260.1	259.4
152.5°	363.7	349.3	335.7	322.9	310.1	297.4	286.4	278.6	271.3	266.2	266.0
155°	357.6	344.9	334.0	323.2	313.0	302.1	293.2	286.2	279.8	276.0	276.0
157.5°	350.7	340.9	331.8	323.8	314.6	306.0	299.1	293.1	287.5	284.4	283.9
160°	346.1	337.9	330.8	323.8	316.2	308.5	302.1	297.7	292.6	290.0	290.0
162.5°	341.5	334.8	328.8	323.3	316.7	310.1	304.7	300.8	296.7	294.6	294.6
165°	335.3	330.2	325.7	321.9	317.4	312.3	307.9	305.3	302.1	300.8	301.5
167.5°	329.3	325.6	322.7	320.9	317.3	313.6	310.8	309.0	306.6	306.0	306.7
170°	325.7	322.5	320.7	319.4	316.8	313.6	312.3	311.0	309.2	308.5	309.8
172.5°	322.1	320.0	319.1	318.9	316.8	314.1	313.3	312.6	311.2	311.0	311.9
175°	318.0	316.8	316.8	317.4	316.2	314.9	314.2	314.2	313.0	313.6	314.2
177.5°	315.4	314.9	315.4	316.4	315.4	314.9	314.9	314.9	314.4	314.9	315.4
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



TEST NUMBER: P332284-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	733.4	736.2	739.7	744.9	748.9	752.4	753.2	754.2	756.7	760.9	764.2
5°	738.3	745.4	756.9	768.2	780.4	790.4	799.7	806.3	812.5	825.7	836.3
7.5°	736.7	752.7	770.8	791.0	811.4	831.2	849.5	866.0	882.4	901.5	923.2
10°	735.7	754.5	778.8	804.7	833.2	861.0	887.8	908.7	933.1	955.0	982.8
12.5°	731.0	758.0	787.1	820.2	855.2	887.2	922.5	951.5	979.3	1010.9	1043.2
15°	724.8	757.6	794.4	838.5	891.5	930.3	966.5	1016.8	1051.1	1085.5	1131.7
17.5°	713.5	753.5	799.6	856.7	901.1	953.1	1007.5	1047.3	1093.6	1142.0	1183.8
20°	704.5	751.1	802.6	858.8	915.3	971.8	1024.6	1072.0	1119.8	1175.7	1210.1
22.5°	695.5	741.5	795.1	854.8	915.5	975.0	1034.8	1090.5	1144.3	1200.7	1244.6
25°	676.4	731.0	789.1	850.0	910.0	975.5	1046.8	1108.9	1175.4	1233.5	1275.0
27.5°	657.0	707.1	764.9	826.7	893.3	970.9	1054.6	1125.3	1191.9	1233.5	1246.5
30°	639.5	692.6	745.7	808.5	880.6	967.1	1056.1	1137.0	1191.6	1209.7	1196.3
32.5°	621.8	669.9	722.5	786.8	863.4	957.9	1058.1	1130.0	1162.9	1149.1	1094.4
35°	590.5	633.9	684.9	749.2	837.2	952.8	1049.9	1098.6	1090.5	1012.4	909.3
37.5°	557.0	592.4	639.5	706.8	810.1	932.5	1014.4	1021.6	951.3	831.4	712.4
40°	530.5	562.4	610.8	681.1	789.1	912.5	978.7	949.7	840.7	707.3	608.0
42.5°	504.8	531.7	578.3	654.1	769.2	885.3	925.4	862.2	736.5	610.3	520.1
45°	461.2	486.5	533.4	611.1	728.2	833.2	827.9	718.0	592.1	490.6	415.6
47.5°	419.9	442.0	486.0	565.3	680.2	755.0	705.4	588.5	481.7	400.3	346.8
50°	390.7	412.5	456.2	534.6	641.7	696.3	625.5	512.7	415.0	347.6	305.1
52.5°	362.6	384.0	424.0	500.3	595.3	627.9	551.8	447.3	365.8	307.6	271.1
55°	323.5	339.7	375.7	448.7	519.6	527.1	450.0	362.6	295.4	254.8	229.8
57.5°	283.6	297.6	333.0	391.3	441.0	437.1	363.9	288.4	243.1	213.0	194.9
60°	257.6	271.3	302.6	352.5	390.0	376.9	309.8	248.9	210.2	188.0	173.7
62.5°	233.4	244.1	273.4	309.8	336.8	322.0	264.8	214.4	183.7	165.0	153.6
65°	198.3	207.0	230.5	249.5	264.5	250.1	202.7	167.7	145.5	132.4	124.6
67.5°	164.9	170.5	185.3	192.2	202.8	187.0	152.4	129.0	116.3	105.3	99.9
70°	144.0	148.1	155.8	161.4	164.3	148.1	122.4	105.3	94.7	86.8	83.4
72.5°	122.9	126.5	128.1	132.7	131.3	116.0	98.4	84.8	77.1	71.8	67.4
75°	94.0	95.6	94.0	92.1	88.1	77.5	65.3	58.4	52.7	50.3	48.8
77.5°	68.5	68.0	65.9	62.9	56.0	49.3	42.8	40.4	38.1	36.7	36.2
80°	52.7	51.5	49.7	45.0	39.1	34.3	32.8	31.2	30.3	28.7	28.5
82.5°	39.3	38.6	35.4	31.5	27.3	25.1	23.8	23.2	22.3	21.5	21.4
85°	21.0	20.0	16.6	14.3	13.8	13.1	12.8	12.8	11.6	11.3	11.3
87.5°	7.3	6.0	6.1	5.6	5.9	5.8	6.4	6.3	6.4	6.5	6.2
90°	2.5	3.8	5.7	7.0	8.3	10.2	12.1	14.0	15.9	15.3	15.9
92.5°	11.7	17.1	22.1	27.4	36.9	53.6	81.0	107.9	98.0	73.9	53.6
95°	23.6	30.6	41.4	58.0	82.8	137.1	232.0	336.6	378.0	306.6	229.5
97.5°	37.6	43.1	52.5	68.8	95.7	147.5	254.6	428.8	585.8	626.7	572.0
100°	47.8	52.3	61.2	76.5	101.3	145.9	240.3	408.0	603.6	729.2	751.5
102.5°	59.0	62.9	71.4	85.2	107.9	148.0	228.0	377.3	570.5	734.3	811.1
105°	75.8	79.7	87.3	99.5	119.2	153.6	219.2	339.7	512.5	695.5	828.7
107.5°	92.9	96.6	104.1	115.5	133.9	164.0	218.7	315.8	461.2	627.4	778.4
110°	105.2	108.4	115.4	126.2	144.1	172.8	221.2	306.6	432.2	584.5	730.5



TEST NUMBER: P332284-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	116.4	119.6	126.6	137.5	154.7	181.4	226.2	301.5	412.8	547.3	683.1
115°	133.2	137.1	143.4	154.3	171.5	195.7	234.6	299.6	392.0	502.3	620.2
117.5°	149.8	153.0	158.8	171.0	186.9	210.8	245.6	300.8	379.8	475.2	574.7
120°	160.0	163.1	169.6	181.6	197.6	220.5	253.7	302.8	374.1	460.9	550.7
122.5°	169.7	172.8	179.8	191.4	208.3	230.7	261.3	306.3	370.6	449.1	531.9
125°	183.0	186.8	193.8	205.9	223.1	245.4	273.5	311.7	365.9	434.1	506.7
127.5°	194.1	198.9	206.0	219.4	236.6	258.1	283.4	317.8	363.6	420.9	484.9
130°	200.8	206.5	214.2	227.6	244.8	265.8	290.0	321.9	362.1	413.7	471.1
132.5°	206.4	212.6	221.8	235.2	251.9	272.4	296.1	325.0	361.5	407.1	458.3
135°	215.5	222.5	232.0	245.4	262.6	282.3	304.0	329.5	360.8	398.4	441.1
137.5°	224.0	230.9	241.1	254.3	270.3	289.3	309.9	332.6	359.4	390.9	425.4
140°	230.1	236.5	246.7	259.4	275.3	293.8	313.0	334.7	358.9	386.3	416.2
142.5°	235.7	242.6	251.8	264.6	279.4	297.4	316.0	336.1	357.8	382.2	407.6
145°	244.8	250.5	260.1	270.9	285.6	302.1	319.4	337.2	356.3	376.7	397.1
147.5°	254.0	259.6	267.8	278.3	290.8	306.0	321.4	337.2	353.9	371.4	388.6
150°	260.1	265.1	273.5	282.3	293.8	308.5	321.9	337.2	351.9	367.8	382.5
152.5°	266.2	271.3	278.6	286.4	297.4	310.1	322.9	335.7	349.3	363.7	376.8
155°	276.0	279.8	286.2	293.2	302.1	313.0	323.2	334.0	344.9	357.6	368.4
157.5°	284.4	287.5	293.1	299.1	306.0	314.6	323.8	331.8	340.9	350.7	359.5
160°	290.0	292.6	297.7	302.1	308.5	316.2	323.8	330.8	337.9	346.1	354.4
162.5°	294.6	296.7	300.8	304.7	310.1	316.7	323.3	328.8	334.8	341.5	348.3
165°	300.8	302.1	305.3	307.9	312.3	317.4	321.9	325.7	330.2	335.3	340.4
167.5°	306.0	306.6	309.0	310.8	313.6	317.3	320.9	322.7	325.6	329.3	333.5
170°	308.5	309.2	311.0	312.3	313.6	316.8	319.4	320.7	322.5	325.7	328.9
172.5°	311.0	311.2	312.6	313.3	314.1	316.8	318.9	319.1	320.0	322.1	324.8
175°	313.6	313.0	314.2	314.2	314.9	316.2	317.4	316.8	316.8	318.0	319.4
177.5°	314.9	314.4	314.9	314.9	314.9	315.4	316.4	315.4	314.9	315.4	315.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	769.5	769.5	770.5	774.2	774.7	778.0	776.9
5°	845.6	851.6	853.8	863.2	868.8	871.2	866.3
7.5°	938.8	955.5	963.5	973.3	981.9	984.6	977.8
10°	1006.8	1024.3	1038.9	1048.0	1056.5	1062.0	1069.3
12.5°	1072.4	1094.0	1107.9	1120.7	1129.4	1136.5	1137.7
15°	1143.9	1176.3	1201.0	1219.1	1228.2	1232.9	1231.0
17.5°	1215.9	1245.9	1263.6	1282.0	1294.5	1295.2	1295.6
20°	1256.6	1286.0	1306.3	1320.0	1334.1	1333.4	1336.5
22.5°	1283.9	1306.9	1322.5	1332.4	1337.3	1334.9	1335.5
25°	1296.6	1303.4	1300.6	1284.7	1280.7	1266.0	1268.4
27.5°	1230.9	1198.4	1164.8	1121.5	1087.4	1060.2	1061.6
30°	1141.7	1084.2	1018.6	963.7	914.4	900.6	871.2
32.5°	1017.0	930.8	854.0	802.8	760.4	748.9	723.3
35°	805.7	721.9	642.9	595.5	576.7	550.6	550.2
37.5°	626.2	552.5	510.8	475.2	456.5	440.6	439.0
40°	526.8	469.4	437.8	412.2	393.8	381.9	379.1
42.5°	457.4	410.9	381.3	365.5	351.3	345.2	340.6
45°	373.5	342.3	321.6	307.3	300.7	296.0	293.5
47.5°	312.4	291.5	277.4	267.9	262.5	257.6	258.9
50°	279.2	262.0	251.7	242.6	238.6	235.1	235.5
52.5°	252.4	237.0	228.7	222.2	217.1	214.7	213.4
55°	214.3	204.6	196.1	191.4	188.6	185.2	184.3
57.5°	182.7	175.2	168.4	163.1	162.4	159.1	159.5
60°	161.8	155.5	149.9	147.1	144.9	142.1	143.0
62.5°	144.6	139.3	134.1	131.8	129.6	127.6	128.0
65°	118.4	113.3	110.2	109.0	108.0	107.1	106.2
67.5°	94.3	91.2	89.3	86.6	84.7	84.4	83.4
70°	79.3	75.3	71.8	68.4	67.4	67.1	67.4
72.5°	63.6	61.0	60.1	58.4	58.2	57.4	58.0
75°	47.8	46.9	46.2	45.0	45.0	45.0	45.0
77.5°	35.2	34.7	34.3	34.0	33.8	33.3	33.3
80°	27.5	27.1	26.6	26.6	26.3	26.6	26.3
82.5°	20.7	20.7	20.1	20.1	19.7	19.6	19.7
85°	10.6	10.3	10.9	10.3	10.6	10.0	10.6
87.5°	6.3	6.4	6.4	6.3	6.2	6.8	6.2
90°	16.6	17.2	18.5	17.9	18.5	19.2	18.5
92.5°	42.6	37.6	34.3	33.2	31.2	31.9	30.7
95°	155.6	121.7	98.8	86.7	81.0	76.5	73.9
97.5°	458.2	375.9	299.7	252.7	224.0	206.8	201.3
100°	699.9	625.3	534.8	470.4	423.9	399.0	399.7
102.5°	809.5	766.1	708.7	658.6	621.7	601.0	586.3
105°	892.3	904.5	887.9	858.6	834.4	814.0	810.8
107.5°	881.9	937.8	960.4	961.0	952.8	945.9	940.0
110°	847.7	928.1	972.7	990.5	995.6	994.3	993.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	802.9	892.9	950.2	982.9	998.7	1003.6	1003.8
115°	731.1	824.8	894.3	942.1	970.1	982.9	986.1
117.5°	670.4	754.6	825.1	874.9	907.0	925.4	929.8
120°	636.7	713.3	777.6	828.0	863.7	879.0	882.8
122.5°	609.8	680.6	740.5	785.1	817.3	834.1	838.9
125°	576.3	637.4	688.4	729.2	757.2	773.1	777.6
127.5°	546.7	602.0	648.4	684.7	708.7	723.1	727.2
130°	528.4	580.1	623.4	657.2	680.1	693.5	698.6
132.5°	511.1	559.1	600.5	632.2	655.2	667.0	670.6
135°	486.3	527.7	564.1	595.3	614.5	625.9	630.4
137.5°	462.5	498.2	529.7	556.0	575.4	585.1	588.0
140°	448.7	479.3	506.7	531.0	548.8	559.1	558.4
142.5°	435.5	462.0	485.8	506.5	522.3	531.5	530.8
145°	418.2	438.5	457.1	473.0	486.3	491.5	492.7
147.5°	405.3	421.8	434.9	446.9	456.0	460.9	461.4
150°	397.1	410.5	422.6	432.2	439.2	443.0	443.0
152.5°	389.5	401.3	411.4	418.9	425.4	427.7	427.7
155°	378.6	388.2	395.8	401.5	406.7	408.0	408.5
157.5°	368.0	375.4	381.4	386.4	390.2	391.3	391.1
160°	361.4	367.8	372.3	376.7	380.5	380.5	379.9
162.5°	354.2	360.1	364.1	367.0	370.3	370.3	369.7
165°	344.2	348.7	351.9	354.4	356.9	356.3	356.3
167.5°	336.4	339.0	341.3	342.4	344.2	343.6	343.6
170°	330.8	333.4	334.7	335.3	336.6	335.9	335.9
172.5°	326.2	328.2	329.1	329.1	330.4	329.3	328.8
175°	320.0	321.2	321.2	321.2	321.9	321.2	320.7
177.5°	316.4	316.9	316.9	316.4	316.9	315.9	315.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9

(END OF REPORT)