

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

Luminaire Tested: **S123RDIP-S560D585U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332278  
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-S560D585U835-4F0-1E-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: 4349.8 lumens  
Efficiency: N/A  
Efficacy: 132.6 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

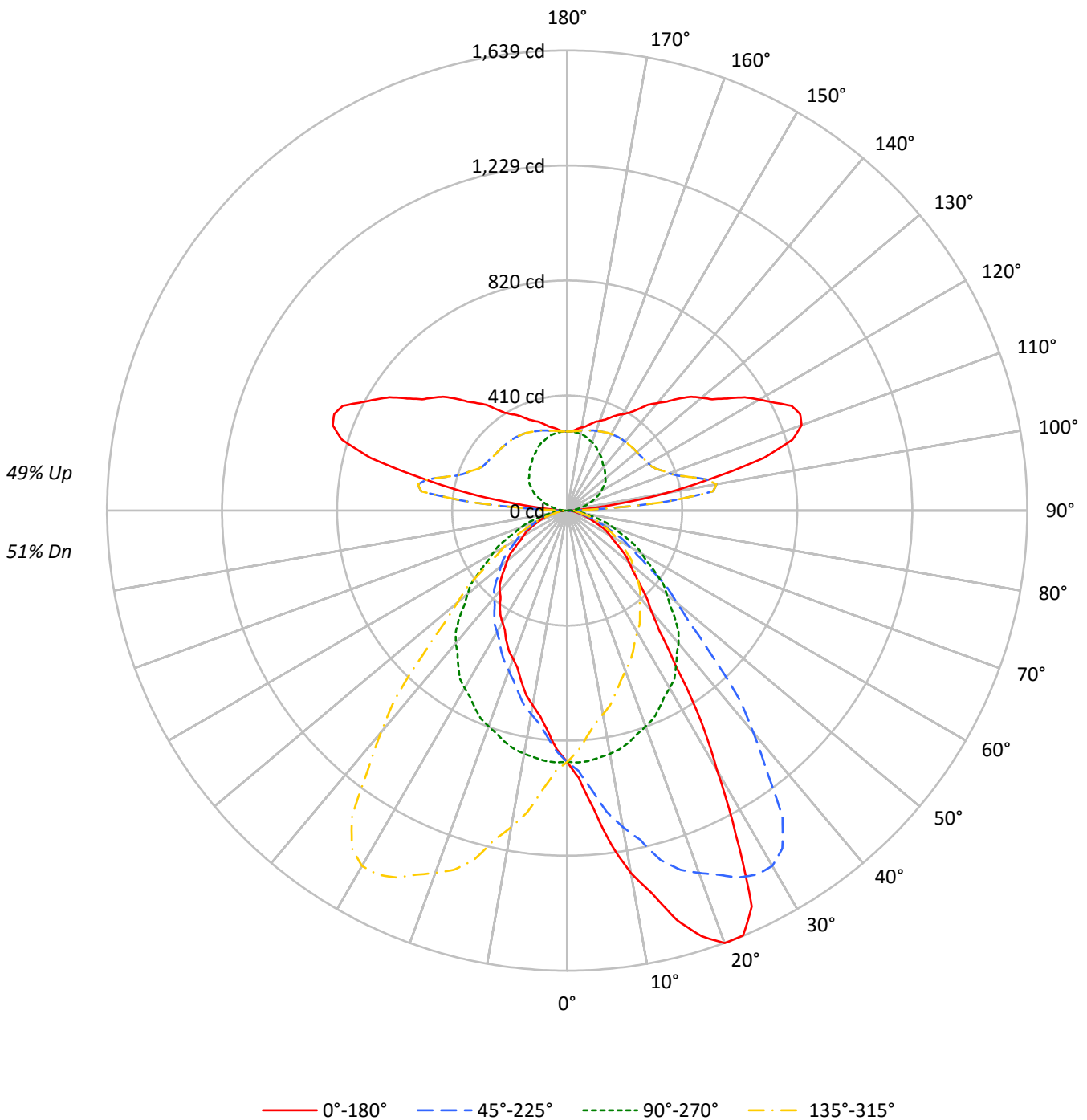
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	9630	9630	9630	9630
5°	11480	9672	8518	9672
10°	14335	9616	7695	9616
15°	16826	9518	7017	9518
20°	18778	9371	6441	9371
25°	18478	9216	6087	9216
30°	13282	9073	5722	9073
35°	8868	8888	5486	8888
40°	6534	8665	5243	8665
45°	5480	8273	5002	8273
50°	4836	7762	4669	7762
55°	4241	7174	4211	7174
60°	3776	6613	3860	6613
65°	3316	6008	3591	6008
70°	2603	5473	3279	5473
75°	2296	4779	2994	4779
80°	1996	4060	2944	4060
85°	1606	3260	3125	3260



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	2.0
10°-20°	274.9	6.3
20°-30°	431.9	9.9
30°-40°	450.6	10.4
40°-50°	385.6	8.9
50°-60°	293.9	6.8
60°-70°	188.4	4.3
70°-80°	90.6	2.1
80°-90°	26.2	0.6
90°-100°	156.8	3.6
100°-110°	444.0	10.2
110°-120°	436.8	10.0
120°-130°	348.4	8.0
130°-140°	274.7	6.3
140°-150°	205.0	4.7
150°-160°	142.9	3.3
160°-170°	83.9	1.9
170°-180°	27.3	0.6
0°-30°	794.7	18.3
0°-40°	1245.3	28.6
0°-60°	1924.8	44.2
0°-90°	2229.9	51.3
90°-120°	1037.6	23.9
90°-150°	1865.7	42.9
90°-180°	2120.0	48.7
0°-180°	4349.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	895	895	895	895	895	
5°	1062	895	788	895	1062	110
15°	1510	854	630	854	1510	428
25°	1556	776	512	776	1556	669
35°	675	676	418	676	675	442
45°	360	544	329	544	360	283
55°	226	382	224	382	226	204
65°	130	236	141	236	130	128
75°	55	115	72	115	55	59
85°	13	26	25	26	13	15
90°	16	1	16	1	16	9
95°	66	19	66	19	66	119
105°	726	66	726	66	726	716
115°	882	117	882	117	882	857
125°	696	163	696	163	696	631
135°	564	190	564	190	564	438
145°	441	217	441	217	441	280
155°	366	247	366	247	366	171
165°	319	270	319	270	319	91
175°	287	281	287	281	287	28
180°	282	282	282	282	282	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	952.9	954.2	950.2	949.6	945.0	943.8	943.8	937.3	933.3	928.1	925.1
5°	1062.5	1068.6	1065.6	1058.7	1047.2	1044.5	1037.2	1025.7	1012.7	996.6	989.0
7.5°	1199.3	1207.7	1204.4	1193.8	1181.8	1172.0	1151.5	1132.4	1105.7	1082.3	1062.2
10°	1311.5	1302.6	1295.8	1285.4	1274.3	1256.3	1234.9	1205.4	1171.3	1144.5	1114.6
12.5°	1395.4	1394.0	1385.2	1374.6	1358.9	1341.8	1315.4	1279.5	1239.9	1201.1	1167.0
15°	1509.9	1512.2	1506.4	1495.3	1473.1	1442.8	1403.0	1388.1	1331.4	1289.2	1247.1
17.5°	1589.1	1588.6	1587.8	1572.4	1549.8	1528.2	1491.3	1452.0	1400.7	1341.3	1284.6
20°	1639.3	1635.5	1636.3	1619.0	1602.2	1577.3	1541.3	1484.2	1442.1	1373.5	1314.9
22.5°	1638.1	1637.3	1640.2	1634.3	1622.1	1603.0	1574.7	1526.5	1472.7	1403.5	1337.6
25°	1555.8	1552.8	1570.8	1575.7	1595.3	1598.7	1590.3	1563.9	1512.9	1441.7	1360.1
27.5°	1302.1	1300.4	1333.8	1375.6	1428.7	1469.9	1509.7	1528.9	1512.9	1461.9	1380.2
30°	1068.6	1104.6	1121.5	1182.0	1249.4	1329.8	1400.3	1467.3	1483.8	1461.6	1394.6
32.5°	887.2	918.6	932.7	984.7	1047.5	1141.7	1247.4	1342.3	1409.4	1426.4	1386.0
35°	674.9	675.3	707.4	730.4	788.6	885.5	988.2	1115.3	1241.7	1337.5	1347.5
37.5°	538.5	540.4	559.9	582.8	626.5	677.7	768.1	873.8	1019.8	1166.8	1253.0
40°	465.0	468.4	483.0	505.6	537.0	575.7	646.2	745.7	867.5	1031.1	1164.8
42.5°	417.8	423.4	430.9	448.3	467.7	504.0	561.0	637.9	748.6	903.3	1057.5
45°	360.0	363.1	368.8	376.9	394.5	419.8	458.1	509.8	601.7	726.2	880.6
47.5°	317.6	316.0	322.0	328.6	340.3	357.5	383.2	425.4	491.0	590.8	721.8
50°	288.8	288.4	292.6	297.6	308.7	321.4	342.4	374.2	426.3	509.0	628.9
52.5°	261.8	263.3	266.3	272.5	280.5	290.7	309.6	332.5	377.3	448.7	548.6
55°	226.0	227.1	231.3	234.8	240.5	250.9	262.8	281.9	312.5	362.3	444.7
57.5°	195.6	195.1	199.2	200.0	206.5	214.9	224.1	239.0	261.2	298.2	353.7
60°	175.4	174.3	177.7	180.4	183.8	190.7	198.4	213.0	230.6	257.8	305.3
62.5°	157.0	156.5	159.0	161.7	164.5	170.8	177.3	188.4	202.4	225.3	263.0
65°	130.2	131.4	132.5	133.7	135.2	139.0	145.2	152.8	162.4	178.5	205.7
67.5°	102.3	103.5	103.9	106.2	109.5	111.9	115.7	122.5	129.2	142.7	158.2
70°	82.7	82.3	82.7	83.9	88.1	92.3	97.3	102.3	106.5	116.1	129.1
72.5°	71.1	70.4	71.4	71.6	73.7	74.8	78.0	82.7	88.1	94.6	104.0
75°	55.2	55.2	55.2	55.2	56.7	57.5	58.6	59.8	61.7	64.7	71.6
77.5°	40.8	40.8	41.4	41.7	42.1	42.5	43.2	44.4	45.0	46.7	49.6
80°	32.2	32.6	32.2	32.6	32.6	33.3	33.7	34.9	35.2	37.2	38.3
82.5°	24.2	24.0	24.2	24.6	24.6	25.4	25.4	26.3	26.4	27.3	28.5
85°	13.0	12.3	13.0	12.6	13.4	12.6	13.0	13.8	13.8	14.2	15.7
87.5°	6.4	7.1	6.4	6.6	6.7	6.8	6.6	6.5	7.0	6.8	6.8
90°	16.5	17.1	16.5	16.0	16.5	15.4	14.8	14.3	13.7	14.3	12.5
92.5°	27.5	28.5	27.9	29.7	30.7	33.7	38.1	48.0	66.2	87.7	96.5
95°	66.2	68.4	72.4	77.6	88.4	108.9	139.2	205.3	274.3	338.2	301.2
97.5°	180.1	185.0	200.4	226.1	268.2	336.4	410.0	511.9	560.8	524.2	383.7
100°	357.6	357.1	379.3	420.9	478.5	559.5	626.3	672.5	652.5	540.1	365.0
102.5°	524.6	537.7	556.3	589.3	634.1	685.5	724.4	725.9	657.1	510.5	337.7
105°	725.5	728.4	746.6	768.3	794.5	809.4	798.5	741.5	622.3	458.6	304.0
107.5°	841.2	846.4	852.6	859.9	859.4	839.1	789.2	696.5	561.4	412.7	282.6
110°	888.6	889.8	890.9	886.4	870.4	830.5	758.6	653.6	523.0	386.7	274.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	898.2	898.0	893.7	879.5	850.3	799.0	718.4	611.2	489.7	369.4	269.8
115°	882.4	879.5	868.1	843.0	800.2	738.1	654.2	555.0	449.5	350.8	268.1
117.5°	831.9	828.1	811.6	782.9	738.3	675.2	599.9	514.2	425.2	339.8	269.1
120°	790.0	786.5	772.9	740.9	695.9	638.2	569.8	492.8	412.4	334.8	270.9
122.5°	750.7	746.4	731.3	702.6	662.5	609.0	545.6	475.9	401.9	331.6	274.1
125°	695.9	691.9	677.6	652.5	616.0	570.4	515.6	453.4	388.4	327.4	278.9
127.5°	650.7	647.0	634.1	612.7	580.2	538.7	489.3	433.8	376.6	325.3	284.4
130°	625.1	620.6	608.6	588.1	557.8	519.0	472.8	421.5	370.2	324.0	288.0
132.5°	600.0	596.8	586.2	565.7	537.3	500.3	457.3	410.1	364.2	323.5	290.8
135°	564.1	560.1	549.8	532.7	504.8	472.3	435.2	394.7	356.5	322.8	294.9
137.5°	526.1	523.5	514.8	497.5	474.0	445.8	413.9	380.7	349.8	321.6	297.6
140°	499.6	500.2	491.1	475.1	453.4	428.9	401.5	372.5	345.6	321.1	299.4
142.5°	475.0	475.6	467.4	453.2	434.7	413.4	389.7	364.7	342.0	320.2	300.8
145°	440.9	439.8	435.2	423.2	409.0	392.4	374.2	355.3	337.1	318.8	301.7
147.5°	412.8	412.4	408.0	399.9	389.1	377.4	362.6	347.7	332.3	316.7	301.7
150°	396.4	396.4	393.0	386.7	378.2	367.3	355.3	342.2	329.1	314.8	301.7
152.5°	382.7	382.7	380.7	374.8	368.1	359.1	348.5	337.2	325.5	312.6	300.4
155°	365.6	365.0	363.9	359.3	354.2	347.4	338.8	329.7	320.0	308.6	298.9
157.5°	350.0	350.1	349.2	345.8	341.3	336.0	329.3	321.7	313.8	305.0	296.9
160°	339.9	340.5	340.5	337.1	333.1	329.1	323.4	317.1	309.7	302.3	296.0
162.5°	330.8	331.4	331.4	328.4	325.8	322.3	317.0	311.7	305.6	299.6	294.2
165°	318.8	318.8	319.4	317.1	314.8	312.0	308.0	304.6	300.0	295.5	291.5
167.5°	307.4	307.4	308.0	306.4	305.4	303.3	301.0	298.4	294.7	291.3	288.7
170°	300.6	300.6	301.2	300.0	299.4	298.3	296.0	294.3	291.5	288.6	286.9
172.5°	294.2	294.7	295.7	294.5	294.4	293.7	291.9	290.7	288.3	286.3	285.5
175°	286.9	287.5	288.0	287.5	287.5	287.5	286.3	285.8	284.6	283.5	283.5
177.5°	282.7	282.7	283.6	283.1	283.6	283.6	283.1	282.7	282.2	281.8	282.2
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	923.8	922.9	918.6	913.7	907.3	903.0	899.6	897.8	892.3	885.5	880.9
5°	980.9	969.4	957.2	942.2	928.4	914.3	905.5	895.1	882.5	868.3	858.3
7.5°	1042.0	1019.5	995.2	970.2	945.4	923.2	903.6	886.8	866.7	846.4	832.1
10°	1088.9	1056.0	1021.9	987.0	955.2	925.4	902.4	879.8	855.7	832.3	814.7
12.5°	1131.5	1088.2	1048.9	1006.0	965.4	929.7	896.6	870.0	841.0	816.1	796.0
15°	1185.4	1141.0	1093.5	1028.4	974.4	929.2	889.0	854.1	818.9	788.3	768.7
17.5°	1235.8	1169.0	1105.2	1050.8	980.7	924.2	875.1	833.4	794.8	762.3	738.2
20°	1256.7	1192.0	1122.6	1053.3	984.4	921.2	864.1	818.1	777.9	741.1	718.9
22.5°	1269.2	1195.9	1122.9	1048.4	975.2	909.5	853.1	802.5	758.9	724.0	696.6
25°	1283.9	1196.5	1116.1	1042.6	967.9	896.6	829.6	776.0	728.9	691.7	662.6
27.5°	1293.5	1190.8	1095.7	1014.0	938.2	867.3	805.9	749.0	701.2	661.9	630.7
30°	1295.4	1186.2	1080.1	991.6	914.6	849.5	784.4	730.0	679.5	637.7	608.6
32.5°	1297.8	1174.9	1059.0	965.0	886.2	821.7	762.7	710.7	658.9	617.8	588.1
35°	1287.7	1168.6	1026.9	918.9	840.0	777.5	724.3	676.4	625.5	585.6	555.4
37.5°	1244.2	1143.7	993.6	866.9	784.4	726.6	683.2	641.5	594.8	551.8	523.3
40°	1200.4	1119.2	967.9	835.4	749.2	689.8	650.7	616.7	571.5	531.2	500.6
42.5°	1135.1	1085.8	943.4	802.3	709.3	652.1	619.2	587.2	547.6	506.7	477.9
45°	1015.4	1021.9	893.2	749.6	654.2	596.7	565.7	543.5	508.3	474.6	445.1
47.5°	865.2	926.1	834.3	693.4	596.1	542.1	515.0	495.6	471.9	438.8	411.9
50°	767.2	854.1	787.1	655.7	559.6	506.0	479.2	463.5	442.8	416.7	391.1
52.5°	676.8	770.2	730.1	613.7	520.1	471.0	444.8	431.9	415.5	391.0	367.8
55°	551.9	646.5	637.3	550.4	460.8	416.7	396.8	382.3	371.1	352.8	334.4
57.5°	446.4	536.1	540.9	479.9	408.5	365.0	347.9	336.9	329.6	315.8	298.8
60°	380.0	462.3	478.4	432.4	371.1	332.8	316.0	307.2	301.4	290.3	277.3
62.5°	324.8	394.9	413.1	380.0	335.3	299.4	286.3	277.8	273.9	264.3	252.8
65°	248.6	306.8	324.4	306.0	282.7	253.9	243.2	235.9	232.5	227.1	218.7
67.5°	186.9	229.4	248.7	235.7	227.3	209.1	202.3	198.4	195.3	191.7	184.6
70°	150.1	181.6	201.5	198.0	191.1	181.6	176.6	173.9	170.8	167.8	161.6
72.5°	120.7	142.3	161.0	162.8	157.1	155.2	150.8	149.7	147.8	144.2	140.8
75°	80.1	95.0	108.0	113.0	115.3	117.2	115.3	114.9	114.5	111.5	109.5
77.5°	52.5	60.5	68.7	77.2	80.8	83.4	84.0	85.4	84.4	82.8	81.9
80°	40.2	42.1	47.9	55.2	60.9	63.2	64.7	65.5	65.1	64.7	63.2
82.5°	29.2	30.8	33.5	38.6	43.4	47.3	48.2	48.0	48.9	49.1	47.9
85°	15.7	16.1	16.9	17.6	20.3	24.5	25.7	26.4	27.2	27.2	24.9
87.5°	7.1	6.4	6.7	6.5	7.2	7.1	8.7	10.0	10.6	9.6	9.9
90°	10.8	9.1	7.4	6.3	5.1	3.4	2.3	1.1	2.3	3.4	5.1
92.5°	72.4	47.9	33.0	24.5	19.7	15.3	10.5	7.1	10.5	15.3	19.7
95°	207.6	122.6	74.1	51.9	37.1	27.4	21.1	19.4	21.1	27.4	37.1
97.5°	227.8	132.0	85.7	61.6	47.0	38.6	33.7	33.1	33.7	38.6	47.0
100°	215.0	130.6	90.7	68.4	54.8	46.8	42.8	42.2	42.8	46.8	54.8
102.5°	204.1	132.4	96.6	76.2	63.9	56.4	52.8	51.8	52.8	56.4	63.9
105°	196.2	137.5	106.7	89.0	78.1	71.3	67.9	66.2	67.9	71.3	78.1
107.5°	195.6	146.8	119.8	103.4	93.2	86.5	83.2	81.4	83.2	86.5	93.2
110°	197.9	154.6	128.9	112.9	103.2	97.0	94.1	92.4	94.1	97.0	103.2





TEST NUMBER: P332278

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	202.5	162.3	138.5	123.0	113.3	107.0	104.2	102.4	104.2	107.0	113.3
115°	209.9	175.1	153.4	138.0	128.3	122.6	119.2	116.9	119.2	122.6	128.3
117.5°	219.7	188.7	167.2	153.0	142.1	136.9	134.0	131.4	134.0	136.9	142.1
120°	227.0	197.3	176.8	162.6	151.7	146.0	143.2	141.5	143.2	146.0	151.7
122.5°	233.9	206.5	186.4	171.2	160.8	154.7	151.8	150.1	151.8	154.7	160.8
125°	244.7	219.6	199.6	184.2	173.4	167.1	163.7	162.6	163.7	167.1	173.4
127.5°	253.6	231.0	211.7	196.3	184.3	178.0	173.7	172.0	173.7	178.0	184.3
130°	259.5	237.8	219.0	203.6	191.6	184.8	179.7	178.0	179.7	184.8	191.6
132.5°	265.0	243.8	225.4	210.5	198.5	190.3	184.7	182.5	184.7	190.3	198.5
135°	272.1	252.7	235.0	219.6	207.6	199.1	192.8	190.5	192.8	199.1	207.6
137.5°	277.3	258.8	241.8	227.6	215.7	206.6	200.4	198.0	200.4	206.6	215.7
140°	280.1	262.9	246.4	232.1	220.7	211.6	205.9	203.1	205.9	211.6	220.7
142.5°	282.8	266.1	250.1	236.7	225.3	217.1	210.9	208.5	210.9	217.1	225.3
145°	285.8	270.4	255.5	242.4	232.7	224.2	219.0	217.3	219.0	224.2	232.7
147.5°	287.6	273.8	260.2	249.0	239.7	232.3	227.2	226.2	227.2	232.3	239.7
150°	288.0	276.1	262.9	252.7	244.7	237.3	232.7	232.1	232.7	237.3	244.7
152.5°	289.0	277.4	266.1	256.3	249.3	242.8	238.2	238.1	238.2	242.8	249.3
155°	289.2	280.1	270.4	262.4	256.1	250.4	247.0	247.0	247.0	250.4	256.1
157.5°	289.8	281.5	273.8	267.6	262.3	257.2	254.5	254.0	254.5	257.2	262.3
160°	289.8	282.9	276.1	270.4	266.4	261.8	259.5	259.5	259.5	261.8	266.4
162.5°	289.3	283.4	277.4	272.6	269.1	265.5	263.6	263.6	263.6	265.5	269.1
165°	288.0	284.0	279.5	275.5	273.2	270.4	269.2	269.8	269.2	270.4	273.2
167.5°	287.1	283.9	280.6	278.1	276.5	274.3	273.8	274.5	273.8	274.3	276.5
170°	285.8	283.5	280.6	279.5	278.3	276.6	276.1	277.2	276.1	276.6	278.3
172.5°	285.3	283.5	281.1	280.4	279.7	278.5	278.3	279.0	278.3	278.5	279.7
175°	284.0	282.9	281.8	281.2	281.2	280.1	280.6	281.2	280.6	280.1	281.2
177.5°	283.1	282.2	281.8	281.8	281.8	281.3	281.8	282.2	281.8	281.3	281.8
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P332278

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	879.4	875.4	872.7	866.5	862.6	858.3	854.0	856.7	856.4	856.1	856.1
5°	849.9	841.1	833.1	822.7	816.2	808.2	802.0	801.3	802.8	797.4	794.4
7.5°	820.7	808.6	797.2	785.8	773.7	764.0	758.0	755.2	751.3	748.0	744.5
10°	800.1	786.0	774.8	760.7	747.7	736.2	728.9	723.9	721.2	718.5	713.6
12.5°	779.0	765.1	750.9	734.9	722.5	709.2	703.8	698.2	693.0	690.0	683.2
15°	748.0	730.0	715.1	698.2	684.5	671.4	663.8	652.7	651.1	647.3	640.4
17.5°	717.0	697.5	676.9	664.4	648.8	635.3	623.6	619.9	608.9	604.8	598.8
20°	692.5	674.5	658.8	642.3	619.7	607.1	597.9	592.9	584.1	578.7	574.9
22.5°	671.4	653.0	634.9	615.7	597.0	582.9	576.1	568.4	563.6	556.1	551.9
25°	641.2	621.3	599.4	578.7	565.3	554.6	543.9	537.0	530.1	526.6	519.0
27.5°	606.1	585.3	564.9	549.2	532.7	522.1	512.4	506.3	498.0	492.2	488.0
30°	586.8	562.3	544.7	530.5	509.4	499.5	492.2	484.5	478.4	472.3	468.0
32.5°	564.4	542.0	525.3	507.8	491.6	480.8	471.3	464.6	459.4	453.6	449.4
35°	529.3	510.6	493.3	475.7	463.8	452.7	441.6	435.9	430.9	425.5	421.7
37.5°	497.6	480.1	463.7	447.0	432.3	423.2	414.3	409.9	403.2	399.6	395.7
40°	478.0	460.8	443.2	427.1	411.7	404.9	396.8	390.3	384.2	381.5	377.3
42.5°	456.6	439.3	424.5	407.1	394.6	385.2	377.8	370.7	366.1	362.2	359.8
45°	424.8	409.4	394.9	377.7	365.8	357.7	349.3	342.8	338.6	335.9	331.7
47.5°	393.9	378.6	363.8	348.8	337.3	328.1	319.7	315.1	309.6	306.3	303.4
50°	371.5	357.7	342.0	328.2	316.8	307.6	300.7	294.9	289.9	285.7	283.8
52.5°	351.0	336.3	322.7	309.9	297.8	287.3	281.1	275.0	271.3	266.4	264.2
55°	317.1	303.0	291.5	278.8	267.0	258.2	250.5	245.1	241.3	235.9	232.9
57.5°	285.3	272.6	258.9	248.0	235.7	228.3	221.9	214.6	210.0	205.8	202.8
60°	263.9	249.3	237.5	227.1	216.4	206.8	201.1	195.3	190.4	186.1	183.5
62.5°	241.5	228.8	217.6	206.3	196.5	188.1	181.5	176.6	172.3	169.6	166.9
65°	207.2	197.3	185.8	176.6	167.4	161.3	155.9	151.7	148.6	146.7	144.4
67.5°	175.7	166.0	156.0	146.9	140.8	136.1	132.6	129.0	127.5	125.0	123.5
70°	155.1	145.2	136.4	129.5	123.3	119.9	117.6	114.9	113.4	110.3	108.8
72.5°	132.8	125.6	119.2	113.5	108.6	105.5	102.6	99.3	96.8	93.5	91.9
75°	104.6	98.1	93.1	89.2	86.2	82.0	77.8	74.3	73.2	72.0	71.6
77.5°	77.4	73.3	69.7	66.5	62.7	59.6	58.7	57.9	57.7	57.1	57.1
80°	60.9	57.1	54.4	50.6	48.3	48.3	48.3	47.5	47.9	47.9	47.9
82.5°	45.3	41.7	40.3	38.9	38.5	38.8	38.8	38.9	38.7	39.3	39.0
85°	23.4	23.7	24.5	24.1	24.5	24.5	25.3	24.9	25.3	24.5	25.3
87.5°	9.8	11.0	11.6	12.3	12.9	13.0	13.2	13.3	13.7	13.8	14.0
90°	6.3	7.4	9.1	10.8	12.5	14.3	13.7	14.3	14.8	15.4	16.5
92.5°	24.5	33.0	47.9	72.4	96.5	87.7	66.2	48.0	38.1	33.7	30.7
95°	51.9	74.1	122.6	207.6	301.2	338.2	274.3	205.3	139.2	108.9	88.4
97.5°	61.6	85.7	132.0	227.8	383.7	524.2	560.8	511.9	410.0	336.4	268.2
100°	68.4	90.7	130.6	215.0	365.0	540.1	652.5	672.5	626.3	559.5	478.5
102.5°	76.2	96.6	132.4	204.1	337.7	510.5	657.1	725.9	724.4	685.5	634.1
105°	89.0	106.7	137.5	196.2	304.0	458.6	622.3	741.5	798.5	809.4	794.5
107.5°	103.4	119.8	146.8	195.6	282.6	412.7	561.4	696.5	789.2	839.1	859.4
110°	112.9	128.9	154.6	197.9	274.3	386.7	523.0	653.6	758.6	830.5	870.4



TEST NUMBER: P332278

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	123.0	138.5	162.3	202.5	269.8	369.4	489.7	611.2	718.4	799.0	850.3
115°	138.0	153.4	175.1	209.9	268.1	350.8	449.5	555.0	654.2	738.1	800.2
117.5°	153.0	167.2	188.7	219.7	269.1	339.8	425.2	514.2	599.9	675.2	738.3
120°	162.6	176.8	197.3	227.0	270.9	334.8	412.4	492.8	569.8	638.2	695.9
122.5°	171.2	186.4	206.5	233.9	274.1	331.6	401.9	475.9	545.6	609.0	662.5
125°	184.2	199.6	219.6	244.7	278.9	327.4	388.4	453.4	515.6	570.4	616.0
127.5°	196.3	211.7	231.0	253.6	284.4	325.3	376.6	433.8	489.3	538.7	580.2
130°	203.6	219.0	237.8	259.5	288.0	324.0	370.2	421.5	472.8	519.0	557.8
132.5°	210.5	225.4	243.8	265.0	290.8	323.5	364.2	410.1	457.3	500.3	537.3
135°	219.6	235.0	252.7	272.1	294.9	322.8	356.5	394.7	435.2	472.3	504.8
137.5°	227.6	241.8	258.8	277.3	297.6	321.6	349.8	380.7	413.9	445.8	474.0
140°	232.1	246.4	262.9	280.1	299.4	321.1	345.6	372.5	401.5	428.9	453.4
142.5°	236.7	250.1	266.1	282.8	300.8	320.2	342.0	364.7	389.7	413.4	434.7
145°	242.4	255.5	270.4	285.8	301.7	318.8	337.1	355.3	374.2	392.4	409.0
147.5°	249.0	260.2	273.8	287.6	301.7	316.7	332.3	347.7	362.6	377.4	389.1
150°	252.7	262.9	276.1	288.0	301.7	314.8	329.1	342.2	355.3	367.3	378.2
152.5°	256.3	266.1	277.4	289.0	300.4	312.6	325.5	337.2	348.5	359.1	368.1
155°	262.4	270.4	280.1	289.2	298.9	308.6	320.0	329.7	338.8	347.4	354.2
157.5°	267.6	273.8	281.5	289.8	296.9	305.0	313.8	321.7	329.3	336.0	341.3
160°	270.4	276.1	282.9	289.8	296.0	302.3	309.7	317.1	323.4	329.1	333.1
162.5°	272.6	277.4	283.4	289.3	294.2	299.6	305.6	311.7	317.0	322.3	325.8
165°	275.5	279.5	284.0	288.0	291.5	295.5	300.0	304.6	308.0	312.0	314.8
167.5°	278.1	280.6	283.9	287.1	288.7	291.3	294.7	298.4	301.0	303.3	305.4
170°	279.5	280.6	283.5	285.8	286.9	288.6	291.5	294.3	296.0	298.3	299.4
172.5°	280.4	281.1	283.5	285.3	285.5	286.3	288.3	290.7	291.9	293.7	294.4
175°	281.2	281.8	282.9	284.0	283.5	283.5	284.6	285.8	286.3	287.5	287.5
177.5°	281.8	281.8	282.2	283.1	282.2	281.8	282.2	282.7	283.1	283.6	283.6
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P332278

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	852.4	852.1	852.4	851.2	852.4	852.1	852.4	856.1	856.1	856.4	856.7
5°	793.2	792.8	791.7	788.3	791.7	792.8	793.2	794.4	797.4	802.8	801.3
7.5°	741.5	741.0	737.6	737.7	737.6	741.0	741.5	744.5	748.0	751.3	755.2
10°	710.9	711.3	706.7	704.0	706.7	711.3	710.9	713.6	718.5	721.2	723.9
12.5°	681.2	679.4	675.7	672.7	675.7	679.4	681.2	683.2	690.0	693.0	698.2
15°	641.9	638.1	628.9	629.7	628.9	638.1	641.9	640.4	647.3	651.1	652.7
17.5°	595.7	592.9	592.8	587.4	592.8	592.9	595.7	598.8	604.8	608.9	619.9
20°	568.8	566.9	567.6	562.3	567.6	566.9	568.8	574.9	578.7	584.1	592.9
22.5°	547.6	545.7	542.5	540.8	542.5	545.7	547.6	551.9	556.1	563.6	568.4
25°	516.7	513.6	510.6	512.5	510.6	513.6	516.7	519.0	526.6	530.1	537.0
27.5°	485.7	483.4	480.4	480.0	480.4	483.4	485.7	488.0	492.2	498.0	506.3
30°	466.1	463.8	462.3	460.4	462.3	463.8	466.1	468.0	472.3	478.4	484.5
32.5°	446.2	445.8	443.0	442.6	443.0	445.8	446.2	449.4	453.6	459.4	464.6
35°	420.2	417.9	417.1	417.5	417.1	417.9	420.2	421.7	425.5	430.9	435.9
37.5°	395.4	392.4	391.0	389.6	391.0	392.4	395.4	395.7	399.6	403.2	409.9
40°	377.7	374.6	373.8	373.1	373.8	374.6	377.7	377.3	381.5	384.2	390.3
42.5°	357.7	356.5	356.1	354.7	356.1	356.5	357.7	359.8	362.2	366.1	370.7
45°	330.5	330.2	327.9	328.6	327.9	330.2	330.5	331.7	335.9	338.6	342.8
47.5°	301.9	300.2	298.6	299.7	298.6	300.2	301.9	303.4	306.3	309.6	315.1
50°	282.3	281.5	278.1	278.8	278.1	281.5	282.3	283.8	285.7	289.9	294.9
52.5°	262.7	259.8	258.5	258.0	258.5	259.8	262.7	264.2	266.4	271.3	275.0
55°	230.2	226.7	225.2	224.4	225.2	226.7	230.2	232.9	235.9	241.3	245.1
57.5°	198.3	197.4	196.2	197.0	196.2	197.4	198.3	202.8	205.8	210.0	214.6
60°	179.6	179.6	179.6	179.3	179.6	179.6	179.6	183.5	186.1	190.4	195.3
62.5°	165.2	164.3	164.0	164.5	164.0	164.3	165.2	166.9	169.6	172.3	176.6
65°	143.2	142.9	141.3	141.0	141.3	142.9	143.2	144.4	146.7	148.6	151.7
67.5°	122.5	121.1	120.7	120.1	120.7	121.1	122.5	123.5	125.0	127.5	129.0
70°	106.9	106.1	103.8	104.2	103.8	106.1	106.9	108.8	110.3	113.4	114.9
72.5°	90.0	89.2	88.8	88.2	88.8	89.2	90.0	91.9	93.5	96.8	99.3
75°	71.2	70.9	70.5	72.0	70.5	70.9	71.2	71.6	72.0	73.2	74.3
77.5°	57.1	57.1	57.3	56.7	57.3	57.1	57.1	57.1	57.1	57.7	57.9
80°	47.9	47.9	47.5	47.5	47.5	47.9	47.9	47.9	47.9	47.9	47.5
82.5°	38.4	38.7	38.9	38.3	38.9	38.7	38.4	39.0	39.3	38.7	38.9
85°	25.3	24.9	25.7	25.3	25.7	24.9	25.3	25.3	24.5	25.3	24.9
87.5°	14.5	14.0	14.1	14.3	14.1	14.0	14.5	14.0	13.8	13.7	13.3
90°	16.0	16.5	17.1	16.5	17.1	16.5	16.0	16.5	15.4	14.8	14.3
92.5°	29.7	27.9	28.5	27.5	28.5	27.9	29.7	30.7	33.7	38.1	48.0
95°	77.6	72.4	68.4	66.2	68.4	72.4	77.6	88.4	108.9	139.2	205.3
97.5°	226.1	200.4	185.0	180.1	185.0	200.4	226.1	268.2	336.4	410.0	511.9
100°	420.9	379.3	357.1	357.6	357.1	379.3	420.9	478.5	559.5	626.3	672.5
102.5°	589.3	556.3	537.7	524.6	537.7	556.3	589.3	634.1	685.5	724.4	725.9
105°	768.3	746.6	728.4	725.5	728.4	746.6	768.3	794.5	809.4	798.5	741.5
107.5°	859.9	852.6	846.4	841.2	846.4	852.6	859.9	859.4	839.1	789.2	696.5
110°	886.4	890.9	889.8	888.6	889.8	890.9	886.4	870.4	830.5	758.6	653.6



TEST NUMBER: P332278

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	879.5	893.7	898.0	898.2	898.0	893.7	879.5	850.3	799.0	718.4	611.2
115°	843.0	868.1	879.5	882.4	879.5	868.1	843.0	800.2	738.1	654.2	555.0
117.5°	782.9	811.6	828.1	831.9	828.1	811.6	782.9	738.3	675.2	599.9	514.2
120°	740.9	772.9	786.5	790.0	786.5	772.9	740.9	695.9	638.2	569.8	492.8
122.5°	702.6	731.3	746.4	750.7	746.4	731.3	702.6	662.5	609.0	545.6	475.9
125°	652.5	677.6	691.9	695.9	691.9	677.6	652.5	616.0	570.4	515.6	453.4
127.5°	612.7	634.1	647.0	650.7	647.0	634.1	612.7	580.2	538.7	489.3	433.8
130°	588.1	608.6	620.6	625.1	620.6	608.6	588.1	557.8	519.0	472.8	421.5
132.5°	565.7	586.2	596.8	600.0	596.8	586.2	565.7	537.3	500.3	457.3	410.1
135°	532.7	549.8	560.1	564.1	560.1	549.8	532.7	504.8	472.3	435.2	394.7
137.5°	497.5	514.8	523.5	526.1	523.5	514.8	497.5	474.0	445.8	413.9	380.7
140°	475.1	491.1	500.2	499.6	500.2	491.1	475.1	453.4	428.9	401.5	372.5
142.5°	453.2	467.4	475.6	475.0	475.6	467.4	453.2	434.7	413.4	389.7	364.7
145°	423.2	435.2	439.8	440.9	439.8	435.2	423.2	409.0	392.4	374.2	355.3
147.5°	399.9	408.0	412.4	412.8	412.4	408.0	399.9	389.1	377.4	362.6	347.7
150°	386.7	393.0	396.4	396.4	396.4	393.0	386.7	378.2	367.3	355.3	342.2
152.5°	374.8	380.7	382.7	382.7	382.7	380.7	374.8	368.1	359.1	348.5	337.2
155°	359.3	363.9	365.0	365.6	365.0	363.9	359.3	354.2	347.4	338.8	329.7
157.5°	345.8	349.2	350.1	350.0	350.1	349.2	345.8	341.3	336.0	329.3	321.7
160°	337.1	340.5	340.5	339.9	340.5	340.5	337.1	333.1	329.1	323.4	317.1
162.5°	328.4	331.4	331.4	330.8	331.4	331.4	328.4	325.8	322.3	317.0	311.7
165°	317.1	319.4	318.8	318.8	318.8	319.4	317.1	314.8	312.0	308.0	304.6
167.5°	306.4	308.0	307.4	307.4	307.4	308.0	306.4	305.4	303.3	301.0	298.4
170°	300.0	301.2	300.6	300.6	300.6	301.2	300.0	299.4	298.3	296.0	294.3
172.5°	294.5	295.7	294.7	294.2	294.7	295.7	294.5	294.4	293.7	291.9	290.7
175°	287.5	288.0	287.5	286.9	287.5	288.0	287.5	287.5	287.5	286.3	285.8
177.5°	283.1	283.6	282.7	282.7	282.7	283.6	283.1	283.6	283.6	283.1	282.7
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P332278

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	854.0	858.3	862.6	866.5	872.7	875.4	879.4	880.9	885.5	892.3	897.8
5°	802.0	808.2	816.2	822.7	833.1	841.1	849.9	858.3	868.3	882.5	895.1
7.5°	758.0	764.0	773.7	785.8	797.2	808.6	820.7	832.1	846.4	866.7	886.8
10°	728.9	736.2	747.7	760.7	774.8	786.0	800.1	814.7	832.3	855.7	879.8
12.5°	703.8	709.2	722.5	734.9	750.9	765.1	779.0	796.0	816.1	841.0	870.0
15°	663.8	671.4	684.5	698.2	715.1	730.0	748.0	768.7	788.3	818.9	854.1
17.5°	623.6	635.3	648.8	664.4	676.9	697.5	717.0	738.2	762.3	794.8	833.4
20°	597.9	607.1	619.7	642.3	658.8	674.5	692.5	718.9	741.1	777.9	818.1
22.5°	576.1	582.9	597.0	615.7	634.9	653.0	671.4	696.6	724.0	758.9	802.5
25°	543.9	554.6	565.3	578.7	599.4	621.3	641.2	662.6	691.7	728.9	776.0
27.5°	512.4	522.1	532.7	549.2	564.9	585.3	606.1	630.7	661.9	701.2	749.0
30°	492.2	499.5	509.4	530.5	544.7	562.3	586.8	608.6	637.7	679.5	730.0
32.5°	471.3	480.8	491.6	507.8	525.3	542.0	564.4	588.1	617.8	658.9	710.7
35°	441.6	452.7	463.8	475.7	493.3	510.6	529.3	555.4	585.6	625.5	676.4
37.5°	414.3	423.2	432.3	447.0	463.7	480.1	497.6	523.3	551.8	594.8	641.5
40°	396.8	404.9	411.7	427.1	443.2	460.8	478.0	500.6	531.2	571.5	616.7
42.5°	377.8	385.2	394.6	407.1	424.5	439.3	456.6	477.9	506.7	547.6	587.2
45°	349.3	357.7	365.8	377.7	394.9	409.4	424.8	445.1	474.6	508.3	543.5
47.5°	319.7	328.1	337.3	348.8	363.8	378.6	393.9	411.9	438.8	471.9	495.6
50°	300.7	307.6	316.8	328.2	342.0	357.7	371.5	391.1	416.7	442.8	463.5
52.5°	281.1	287.3	297.8	309.9	322.7	336.3	351.0	367.8	391.0	415.5	431.9
55°	250.5	258.2	267.0	278.8	291.5	303.0	317.1	334.4	352.8	371.1	382.3
57.5°	221.9	228.3	235.7	248.0	258.9	272.6	285.3	298.8	315.8	329.6	336.9
60°	201.1	206.8	216.4	227.1	237.5	249.3	263.9	277.3	290.3	301.4	307.2
62.5°	181.5	188.1	196.5	206.3	217.6	228.8	241.5	252.8	264.3	273.9	277.8
65°	155.9	161.3	167.4	176.6	185.8	197.3	207.2	218.7	227.1	232.5	235.9
67.5°	132.6	136.1	140.8	146.9	156.0	166.0	175.7	184.6	191.7	195.3	198.4
70°	117.6	119.9	123.3	129.5	136.4	145.2	155.1	161.6	167.8	170.8	173.9
72.5°	102.6	105.5	108.6	113.5	119.2	125.6	132.8	140.8	144.2	147.8	149.7
75°	77.8	82.0	86.2	89.2	93.1	98.1	104.6	109.5	111.5	114.5	114.9
77.5°	58.7	59.6	62.7	66.5	69.7	73.3	77.4	81.9	82.8	84.4	85.4
80°	48.3	48.3	48.3	50.6	54.4	57.1	60.9	63.2	64.7	65.1	65.5
82.5°	38.8	38.8	38.5	38.9	40.3	41.7	45.3	47.9	49.1	48.9	48.0
85°	25.3	24.5	24.5	24.1	24.5	23.7	23.4	24.9	27.2	27.2	26.4
87.5°	13.2	13.0	12.9	12.3	11.6	11.0	9.8	9.9	9.6	10.6	10.0
90°	13.7	14.3	12.5	10.8	9.1	7.4	6.3	5.1	3.4	2.3	1.1
92.5°	66.2	87.7	96.5	72.4	47.9	33.0	24.5	19.7	15.3	10.5	7.1
95°	274.3	338.2	301.2	207.6	122.6	74.1	51.9	37.1	27.4	21.1	19.4
97.5°	560.8	524.2	383.7	227.8	132.0	85.7	61.6	47.0	38.6	33.7	33.1
100°	652.5	540.1	365.0	215.0	130.6	90.7	68.4	54.8	46.8	42.8	42.2
102.5°	657.1	510.5	337.7	204.1	132.4	96.6	76.2	63.9	56.4	52.8	51.8
105°	622.3	458.6	304.0	196.2	137.5	106.7	89.0	78.1	71.3	67.9	66.2
107.5°	561.4	412.7	282.6	195.6	146.8	119.8	103.4	93.2	86.5	83.2	81.4
110°	523.0	386.7	274.3	197.9	154.6	128.9	112.9	103.2	97.0	94.1	92.4



TEST NUMBER: P332278

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	489.7	369.4	269.8	202.5	162.3	138.5	123.0	113.3	107.0	104.2	102.4
115°	449.5	350.8	268.1	209.9	175.1	153.4	138.0	128.3	122.6	119.2	116.9
117.5°	425.2	339.8	269.1	219.7	188.7	167.2	153.0	142.1	136.9	134.0	131.4
120°	412.4	334.8	270.9	227.0	197.3	176.8	162.6	151.7	146.0	143.2	141.5
122.5°	401.9	331.6	274.1	233.9	206.5	186.4	171.2	160.8	154.7	151.8	150.1
125°	388.4	327.4	278.9	244.7	219.6	199.6	184.2	173.4	167.1	163.7	162.6
127.5°	376.6	325.3	284.4	253.6	231.0	211.7	196.3	184.3	178.0	173.7	172.0
130°	370.2	324.0	288.0	259.5	237.8	219.0	203.6	191.6	184.8	179.7	178.0
132.5°	364.2	323.5	290.8	265.0	243.8	225.4	210.5	198.5	190.3	184.7	182.5
135°	356.5	322.8	294.9	272.1	252.7	235.0	219.6	207.6	199.1	192.8	190.5
137.5°	349.8	321.6	297.6	277.3	258.8	241.8	227.6	215.7	206.6	200.4	198.0
140°	345.6	321.1	299.4	280.1	262.9	246.4	232.1	220.7	211.6	205.9	203.1
142.5°	342.0	320.2	300.8	282.8	266.1	250.1	236.7	225.3	217.1	210.9	208.5
145°	337.1	318.8	301.7	285.8	270.4	255.5	242.4	232.7	224.2	219.0	217.3
147.5°	332.3	316.7	301.7	287.6	273.8	260.2	249.0	239.7	232.3	227.2	226.2
150°	329.1	314.8	301.7	288.0	276.1	262.9	252.7	244.7	237.3	232.7	232.1
152.5°	325.5	312.6	300.4	289.0	277.4	266.1	256.3	249.3	242.8	238.2	238.1
155°	320.0	308.6	298.9	289.2	280.1	270.4	262.4	256.1	250.4	247.0	247.0
157.5°	313.8	305.0	296.9	289.8	281.5	273.8	267.6	262.3	257.2	254.5	254.0
160°	309.7	302.3	296.0	289.8	282.9	276.1	270.4	266.4	261.8	259.5	259.5
162.5°	305.6	299.6	294.2	289.3	283.4	277.4	272.6	269.1	265.5	263.6	263.6
165°	300.0	295.5	291.5	288.0	284.0	279.5	275.5	273.2	270.4	269.2	269.8
167.5°	294.7	291.3	288.7	287.1	283.9	280.6	278.1	276.5	274.3	273.8	274.5
170°	291.5	288.6	286.9	285.8	283.5	280.6	279.5	278.3	276.6	276.1	277.2
172.5°	288.3	286.3	285.5	285.3	283.5	281.1	280.4	279.7	278.5	278.3	279.0
175°	284.6	283.5	283.5	284.0	282.9	281.8	281.2	281.2	280.1	280.6	281.2
177.5°	282.2	281.8	282.2	283.1	282.2	281.8	281.8	281.8	281.3	281.8	282.2
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P332278

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	899.6	903.0	907.3	913.7	918.6	922.9	923.8	925.1	928.1	933.3	937.3
5°	905.5	914.3	928.4	942.2	957.2	969.4	980.9	989.0	996.6	1012.7	1025.7
7.5°	903.6	923.2	945.4	970.2	995.2	1019.5	1042.0	1062.2	1082.3	1105.7	1132.4
10°	902.4	925.4	955.2	987.0	1021.9	1056.0	1088.9	1114.6	1144.5	1171.3	1205.4
12.5°	896.6	929.7	965.4	1006.0	1048.9	1088.2	1131.5	1167.0	1201.1	1239.9	1279.5
15°	889.0	929.2	974.4	1028.4	1093.5	1141.0	1185.4	1247.1	1289.2	1331.4	1388.1
17.5°	875.1	924.2	980.7	1050.8	1105.2	1169.0	1235.8	1284.6	1341.3	1400.7	1452.0
20°	864.1	921.2	984.4	1053.3	1122.6	1192.0	1256.7	1314.9	1373.5	1442.1	1484.2
22.5°	853.1	909.5	975.2	1048.4	1122.9	1195.9	1269.2	1337.6	1403.5	1472.7	1526.5
25°	829.6	896.6	967.9	1042.6	1116.1	1196.5	1283.9	1360.1	1441.7	1512.9	1563.9
27.5°	805.9	867.3	938.2	1014.0	1095.7	1190.8	1293.5	1380.2	1461.9	1512.9	1528.9
30°	784.4	849.5	914.6	991.6	1080.1	1186.2	1295.4	1394.6	1461.6	1483.8	1467.3
32.5°	762.7	821.7	886.2	965.0	1059.0	1174.9	1297.8	1386.0	1426.4	1409.4	1342.3
35°	724.3	777.5	840.0	918.9	1026.9	1168.6	1287.7	1347.5	1337.5	1241.7	1115.3
37.5°	683.2	726.6	784.4	866.9	993.6	1143.7	1244.2	1253.0	1166.8	1019.8	873.8
40°	650.7	689.8	749.2	835.4	967.9	1119.2	1200.4	1164.8	1031.1	867.5	745.7
42.5°	619.2	652.1	709.3	802.3	943.4	1085.8	1135.1	1057.5	903.3	748.6	637.9
45°	565.7	596.7	654.2	749.6	893.2	1021.9	1015.4	880.6	726.2	601.7	509.8
47.5°	515.0	542.1	596.1	693.4	834.3	926.1	865.2	721.8	590.8	491.0	425.4
50°	479.2	506.0	559.6	655.7	787.1	854.1	767.2	628.9	509.0	426.3	374.2
52.5°	444.8	471.0	520.1	613.7	730.1	770.2	676.8	548.6	448.7	377.3	332.5
55°	396.8	416.7	460.8	550.4	637.3	646.5	551.9	444.7	362.3	312.5	281.9
57.5°	347.9	365.0	408.5	479.9	540.9	536.1	446.4	353.7	298.2	261.2	239.0
60°	316.0	332.8	371.1	432.4	478.4	462.3	380.0	305.3	257.8	230.6	213.0
62.5°	286.3	299.4	335.3	380.0	413.1	394.9	324.8	263.0	225.3	202.4	188.4
65°	243.2	253.9	282.7	306.0	324.4	306.8	248.6	205.7	178.5	162.4	152.8
67.5°	202.3	209.1	227.3	235.7	248.7	229.4	186.9	158.2	142.7	129.2	122.5
70°	176.6	181.6	191.1	198.0	201.5	181.6	150.1	129.1	116.1	106.5	102.3
72.5°	150.8	155.2	157.1	162.8	161.0	142.3	120.7	104.0	94.6	88.1	82.7
75°	115.3	117.2	115.3	113.0	108.0	95.0	80.1	71.6	64.7	61.7	59.8
77.5°	84.0	83.4	80.8	77.2	68.7	60.5	52.5	49.6	46.7	45.0	44.4
80°	64.7	63.2	60.9	55.2	47.9	42.1	40.2	38.3	37.2	35.2	34.9
82.5°	48.2	47.3	43.4	38.6	33.5	30.8	29.2	28.5	27.3	26.4	26.3
85°	25.7	24.5	20.3	17.6	16.9	16.1	15.7	15.7	14.2	13.8	13.8
87.5°	8.7	7.1	7.2	6.5	6.7	6.4	7.1	6.8	6.8	7.0	6.5
90°	2.3	3.4	5.1	6.3	7.4	9.1	10.8	12.5	14.3	13.7	14.3
92.5°	10.5	15.3	19.7	24.5	33.0	47.9	72.4	96.5	87.7	66.2	48.0
95°	21.1	27.4	37.1	51.9	74.1	122.6	207.6	301.2	338.2	274.3	205.3
97.5°	33.7	38.6	47.0	61.6	85.7	132.0	227.8	383.7	524.2	560.8	511.9
100°	42.8	46.8	54.8	68.4	90.7	130.6	215.0	365.0	540.1	652.5	672.5
102.5°	52.8	56.4	63.9	76.2	96.6	132.4	204.1	337.7	510.5	657.1	725.9
105°	67.9	71.3	78.1	89.0	106.7	137.5	196.2	304.0	458.6	622.3	741.5
107.5°	83.2	86.5	93.2	103.4	119.8	146.8	195.6	282.6	412.7	561.4	696.5
110°	94.1	97.0	103.2	112.9	128.9	154.6	197.9	274.3	386.7	523.0	653.6





TEST NUMBER: P332278

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	104.2	107.0	113.3	123.0	138.5	162.3	202.5	269.8	369.4	489.7	611.2
115°	119.2	122.6	128.3	138.0	153.4	175.1	209.9	268.1	350.8	449.5	555.0
117.5°	134.0	136.9	142.1	153.0	167.2	188.7	219.7	269.1	339.8	425.2	514.2
120°	143.2	146.0	151.7	162.6	176.8	197.3	227.0	270.9	334.8	412.4	492.8
122.5°	151.8	154.7	160.8	171.2	186.4	206.5	233.9	274.1	331.6	401.9	475.9
125°	163.7	167.1	173.4	184.2	199.6	219.6	244.7	278.9	327.4	388.4	453.4
127.5°	173.7	178.0	184.3	196.3	211.7	231.0	253.6	284.4	325.3	376.6	433.8
130°	179.7	184.8	191.6	203.6	219.0	237.8	259.5	288.0	324.0	370.2	421.5
132.5°	184.7	190.3	198.5	210.5	225.4	243.8	265.0	290.8	323.5	364.2	410.1
135°	192.8	199.1	207.6	219.6	235.0	252.7	272.1	294.9	322.8	356.5	394.7
137.5°	200.4	206.6	215.7	227.6	241.8	258.8	277.3	297.6	321.6	349.8	380.7
140°	205.9	211.6	220.7	232.1	246.4	262.9	280.1	299.4	321.1	345.6	372.5
142.5°	210.9	217.1	225.3	236.7	250.1	266.1	282.8	300.8	320.2	342.0	364.7
145°	219.0	224.2	232.7	242.4	255.5	270.4	285.8	301.7	318.8	337.1	355.3
147.5°	227.2	232.3	239.7	249.0	260.2	273.8	287.6	301.7	316.7	332.3	347.7
150°	232.7	237.3	244.7	252.7	262.9	276.1	288.0	301.7	314.8	329.1	342.2
152.5°	238.2	242.8	249.3	256.3	266.1	277.4	289.0	300.4	312.6	325.5	337.2
155°	247.0	250.4	256.1	262.4	270.4	280.1	289.2	298.9	308.6	320.0	329.7
157.5°	254.5	257.2	262.3	267.6	273.8	281.5	289.8	296.9	305.0	313.8	321.7
160°	259.5	261.8	266.4	270.4	276.1	282.9	289.8	296.0	302.3	309.7	317.1
162.5°	263.6	265.5	269.1	272.6	277.4	283.4	289.3	294.2	299.6	305.6	311.7
165°	269.2	270.4	273.2	275.5	279.5	284.0	288.0	291.5	295.5	300.0	304.6
167.5°	273.8	274.3	276.5	278.1	280.6	283.9	287.1	288.7	291.3	294.7	298.4
170°	276.1	276.6	278.3	279.5	280.6	283.5	285.8	286.9	288.6	291.5	294.3
172.5°	278.3	278.5	279.7	280.4	281.1	283.5	285.3	285.5	286.3	288.3	290.7
175°	280.6	280.1	281.2	281.2	281.8	282.9	284.0	283.5	283.5	284.6	285.8
177.5°	281.8	281.3	281.8	281.8	281.8	282.2	283.1	282.2	281.8	282.2	282.7
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	943.8	943.8	945.0	949.6	950.2	954.2	952.9
5°	1037.2	1044.5	1047.2	1058.7	1065.6	1068.6	1062.5
7.5°	1151.5	1172.0	1181.8	1193.8	1204.4	1207.7	1199.3
10°	1234.9	1256.3	1274.3	1285.4	1295.8	1302.6	1311.5
12.5°	1315.4	1341.8	1358.9	1374.6	1385.2	1394.0	1395.4
15°	1403.0	1442.8	1473.1	1495.3	1506.4	1512.2	1509.9
17.5°	1491.3	1528.2	1549.8	1572.4	1587.8	1588.6	1589.1
20°	1541.3	1577.3	1602.2	1619.0	1636.3	1635.5	1639.3
22.5°	1574.7	1603.0	1622.1	1634.3	1640.2	1637.3	1638.1
25°	1590.3	1598.7	1595.3	1575.7	1570.8	1552.8	1555.8
27.5°	1509.7	1469.9	1428.7	1375.6	1333.8	1300.4	1302.1
30°	1400.3	1329.8	1249.4	1182.0	1121.5	1104.6	1068.6
32.5°	1247.4	1141.7	1047.5	984.7	932.7	918.6	887.2
35°	988.2	885.5	788.6	730.4	707.4	675.3	674.9
37.5°	768.1	677.7	626.5	582.8	559.9	540.4	538.5
40°	646.2	575.7	537.0	505.6	483.0	468.4	465.0
42.5°	561.0	504.0	467.7	448.3	430.9	423.4	417.8
45°	458.1	419.8	394.5	376.9	368.8	363.1	360.0
47.5°	383.2	357.5	340.3	328.6	322.0	316.0	317.6
50°	342.4	321.4	308.7	297.6	292.6	288.4	288.8
52.5°	309.6	290.7	280.5	272.5	266.3	263.3	261.8
55°	262.8	250.9	240.5	234.8	231.3	227.1	226.0
57.5°	224.1	214.9	206.5	200.0	199.2	195.1	195.6
60°	198.4	190.7	183.8	180.4	177.7	174.3	175.4
62.5°	177.3	170.8	164.5	161.7	159.0	156.5	157.0
65°	145.2	139.0	135.2	133.7	132.5	131.4	130.2
67.5°	115.7	111.9	109.5	106.2	103.9	103.5	102.3
70°	97.3	92.3	88.1	83.9	82.7	82.3	82.7
72.5°	78.0	74.8	73.7	71.6	71.4	70.4	71.1
75°	58.6	57.5	56.7	55.2	55.2	55.2	55.2
77.5°	43.2	42.5	42.1	41.7	41.4	40.8	40.8
80°	33.7	33.3	32.6	32.6	32.2	32.6	32.2
82.5°	25.4	25.4	24.6	24.6	24.2	24.0	24.2
85°	13.0	12.6	13.4	12.6	13.0	12.3	13.0
87.5°	6.6	6.8	6.7	6.6	6.4	7.1	6.4
90°	14.8	15.4	16.5	16.0	16.5	17.1	16.5
92.5°	38.1	33.7	30.7	29.7	27.9	28.5	27.5
95°	139.2	108.9	88.4	77.6	72.4	68.4	66.2
97.5°	410.0	336.4	268.2	226.1	200.4	185.0	180.1
100°	626.3	559.5	478.5	420.9	379.3	357.1	357.6
102.5°	724.4	685.5	634.1	589.3	556.3	537.7	524.6
105°	798.5	809.4	794.5	768.3	746.6	728.4	725.5
107.5°	789.2	839.1	859.4	859.9	852.6	846.4	841.2
110°	758.6	830.5	870.4	886.4	890.9	889.8	888.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	718.4	799.0	850.3	879.5	893.7	898.0	898.2
115°	654.2	738.1	800.2	843.0	868.1	879.5	882.4
117.5°	599.9	675.2	738.3	782.9	811.6	828.1	831.9
120°	569.8	638.2	695.9	740.9	772.9	786.5	790.0
122.5°	545.6	609.0	662.5	702.6	731.3	746.4	750.7
125°	515.6	570.4	616.0	652.5	677.6	691.9	695.9
127.5°	489.3	538.7	580.2	612.7	634.1	647.0	650.7
130°	472.8	519.0	557.8	588.1	608.6	620.6	625.1
132.5°	457.3	500.3	537.3	565.7	586.2	596.8	600.0
135°	435.2	472.3	504.8	532.7	549.8	560.1	564.1
137.5°	413.9	445.8	474.0	497.5	514.8	523.5	526.1
140°	401.5	428.9	453.4	475.1	491.1	500.2	499.6
142.5°	389.7	413.4	434.7	453.2	467.4	475.6	475.0
145°	374.2	392.4	409.0	423.2	435.2	439.8	440.9
147.5°	362.6	377.4	389.1	399.9	408.0	412.4	412.8
150°	355.3	367.3	378.2	386.7	393.0	396.4	396.4
152.5°	348.5	359.1	368.1	374.8	380.7	382.7	382.7
155°	338.8	347.4	354.2	359.3	363.9	365.0	365.6
157.5°	329.3	336.0	341.3	345.8	349.2	350.1	350.0
160°	323.4	329.1	333.1	337.1	340.5	340.5	339.9
162.5°	317.0	322.3	325.8	328.4	331.4	331.4	330.8
165°	308.0	312.0	314.8	317.1	319.4	318.8	318.8
167.5°	301.0	303.3	305.4	306.4	308.0	307.4	307.4
170°	296.0	298.3	299.4	300.0	301.2	300.6	300.6
172.5°	291.9	293.7	294.4	294.5	295.7	294.7	294.2
175°	286.3	287.5	287.5	287.5	288.0	287.5	286.9
177.5°	283.1	283.6	283.6	283.1	283.6	282.7	282.7
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8

(END OF REPORT)