

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: P332284-840

Luminaire Tested: **S123RDIP-S560D805U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332284-840  
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-S560D805U840-4F0-1E-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: 5187.1 lumens  
Efficiency: N/A  
Efficacy: 135.1 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

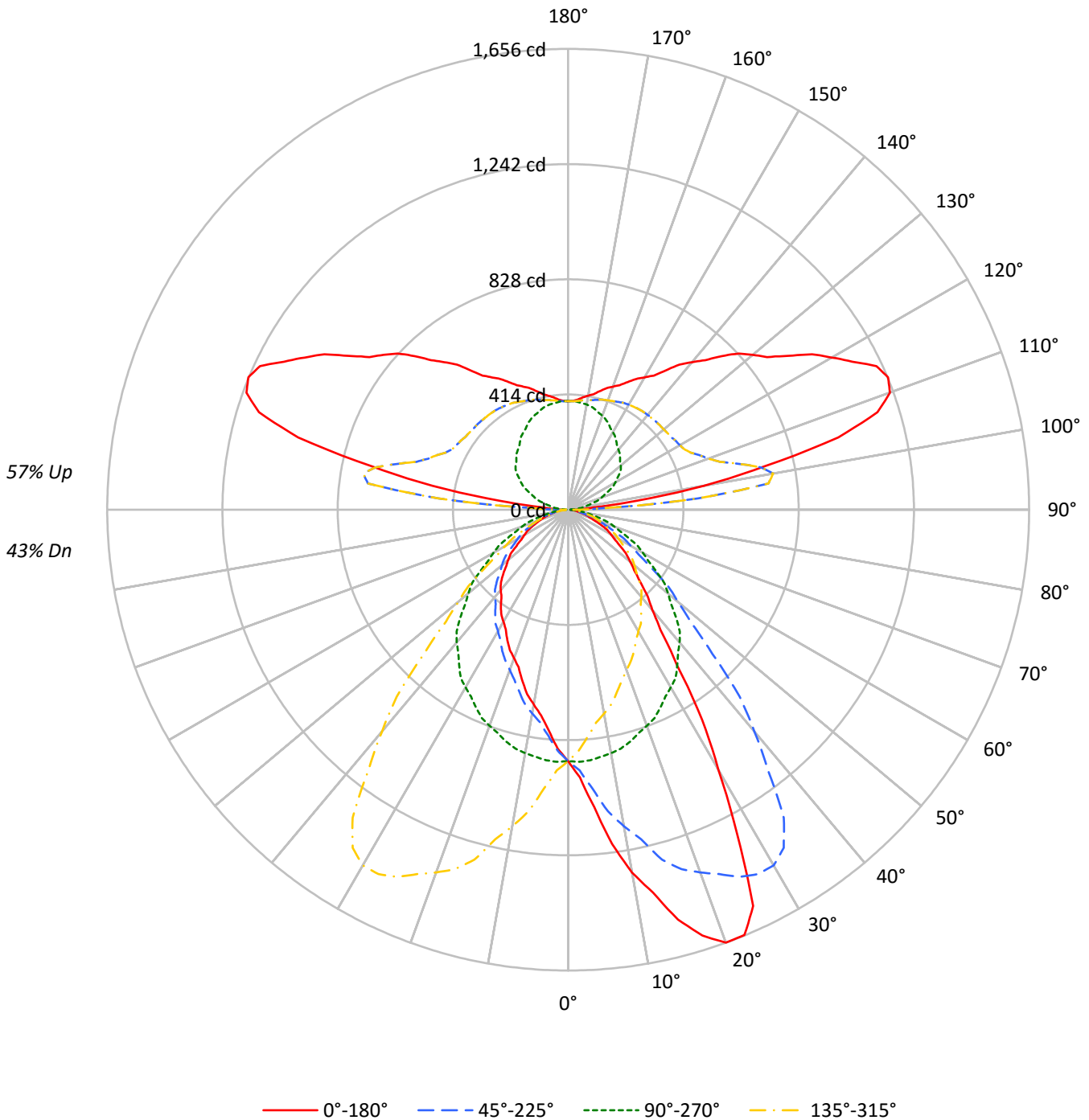
Input Watts (W): 38.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	9725	9725	9725	9725
5°	11594	9767	8602	9767
10°	14476	9711	7770	9711
15°	16992	9611	7086	9611
20°	18963	9464	6504	9464
25°	18659	9308	6147	9308
30°	13412	9163	5778	9163
35°	8956	8976	5540	8976
40°	6598	8751	5295	8751
45°	5535	8356	5051	8356
50°	4883	7839	4716	7839
55°	4282	7246	4252	7246
60°	3813	6678	3899	6678
65°	3349	6067	3627	6067
70°	2628	5526	3311	5526
75°	2316	4824	3023	4824
80°	2015	4097	2975	4097
85°	1618	3298	3149	3298



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	1.7
10°-20°	277.6	5.4
20°-30°	436.1	8.4
30°-40°	455.0	8.8
40°-50°	389.4	7.5
50°-60°	296.8	5.7
60°-70°	190.2	3.7
70°-80°	91.5	1.8
80°-90°	27.2	0.5
90°-100°	217.1	4.2
100°-110°	614.6	11.8
110°-120°	604.6	11.7
120°-130°	482.3	9.3
130°-140°	380.2	7.3
140°-150°	283.8	5.5
150°-160°	197.8	3.8
160°-170°	116.2	2.2
170°-180°	37.8	0.7
0°-30°	802.6	15.5
0°-40°	1257.6	24.2
0°-60°	1943.7	37.5
0°-90°	2252.7	43.4
90°-120°	1436.3	27.7
90°-150°	2582.6	49.8
90°-180°	2934.0	56.6
0°-180°	5187.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	904	904	904	904	904	
5°	1073	904	796	904	1073	111
15°	1525	862	636	862	1525	432
25°	1571	784	518	784	1571	675
35°	682	683	422	683	682	447
45°	364	549	332	549	364	286
55°	228	386	227	386	228	206
65°	132	238	142	238	132	129
75°	56	116	73	116	56	60
85°	13	27	26	27	13	16
90°	23	2	23	2	23	13
95°	92	27	92	27	92	165
105°	1004	92	1004	92	1004	991
115°	1221	162	1221	162	1221	1187
125°	963	225	963	225	963	873
135°	781	264	781	264	781	606
145°	610	301	610	301	610	388
155°	506	342	506	342	506	236
165°	441	373	441	373	441	126
175°	397	389	397	389	397	39
180°	390	390	390	390	390	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	962.3	963.6	959.6	959.0	954.3	953.1	953.1	946.5	942.5	937.3	934.2
5°	1073.0	1079.1	1076.1	1069.1	1057.5	1054.8	1047.4	1035.8	1022.7	1006.4	998.8
7.5°	1211.1	1219.6	1216.3	1205.6	1193.5	1183.6	1162.9	1143.6	1116.6	1093.0	1072.7
10°	1324.4	1315.5	1308.6	1298.1	1286.9	1268.7	1247.1	1217.3	1182.9	1155.8	1125.6
12.5°	1409.2	1407.8	1398.9	1388.2	1372.3	1355.0	1328.4	1292.1	1252.1	1212.9	1178.5
15°	1524.8	1527.1	1521.3	1510.1	1487.6	1457.0	1416.8	1401.8	1344.5	1301.9	1259.4
17.5°	1604.8	1604.3	1603.5	1587.9	1565.1	1543.3	1506.0	1466.3	1414.5	1354.5	1297.3
20°	1655.5	1651.6	1652.4	1635.0	1618.0	1592.9	1556.5	1498.8	1456.3	1387.0	1327.9
22.5°	1654.3	1653.5	1656.4	1650.4	1638.1	1618.8	1590.2	1541.6	1487.2	1417.3	1350.8
25°	1571.1	1568.1	1586.3	1591.2	1611.0	1614.5	1606.0	1579.3	1527.8	1455.9	1373.5
27.5°	1314.9	1313.2	1347.0	1389.2	1442.8	1484.4	1524.6	1544.0	1527.8	1476.3	1393.8
30°	1079.1	1115.5	1132.6	1193.7	1261.7	1342.9	1414.1	1481.8	1498.4	1476.0	1408.4
32.5°	896.0	927.7	941.9	994.4	1057.8	1153.0	1259.7	1355.5	1423.3	1440.5	1399.7
35°	681.6	682.0	714.4	737.6	796.4	894.2	997.9	1126.3	1253.9	1350.7	1360.8
37.5°	543.8	545.7	565.4	588.5	632.7	684.4	775.7	882.4	1029.9	1178.3	1265.4
40°	469.6	473.0	487.8	510.6	542.3	581.4	652.6	753.1	876.1	1041.3	1176.3
42.5°	421.9	427.6	435.2	452.7	472.3	509.0	566.5	644.2	756.0	912.2	1067.9
45°	363.6	366.7	372.4	380.6	398.4	423.9	462.6	514.8	607.6	733.4	889.3
47.5°	320.7	319.1	325.2	331.8	343.7	361.0	387.0	429.6	495.8	596.6	728.9
50°	291.6	291.2	295.5	300.5	311.7	324.6	345.8	377.9	430.5	514.0	635.1
52.5°	264.4	265.9	268.9	275.2	283.3	293.6	312.7	335.8	381.0	453.1	554.0
55°	228.2	229.3	233.6	237.1	242.9	253.4	265.4	284.7	315.6	365.9	449.1
57.5°	197.5	197.0	201.2	202.0	208.5	217.0	226.3	241.4	263.8	301.1	357.2
60°	177.1	176.0	179.5	182.2	185.6	192.6	200.4	215.1	232.9	260.3	308.3
62.5°	158.5	158.0	160.6	163.3	166.1	172.5	179.0	190.3	204.4	227.5	265.6
65°	131.5	132.7	133.8	135.0	136.5	140.4	146.6	154.3	164.0	180.3	207.7
67.5°	103.3	104.5	104.9	107.2	110.6	113.0	116.8	123.7	130.5	144.1	159.8
70°	83.5	83.1	83.5	84.7	89.0	93.2	98.3	103.3	107.6	117.2	130.4
72.5°	71.8	71.1	72.1	72.3	74.4	75.5	78.8	83.5	89.0	95.5	105.0
75°	55.7	55.7	55.7	55.7	57.3	58.1	59.2	60.4	62.3	65.3	72.3
77.5°	41.2	41.2	41.8	42.1	42.5	42.9	43.6	44.8	45.4	47.2	50.1
80°	32.5	32.9	32.5	32.9	32.9	33.6	34.0	35.2	35.5	37.6	38.7
82.5°	24.4	24.2	24.4	24.8	24.8	25.7	25.7	26.6	26.7	27.6	28.8
85°	13.1	12.4	13.1	12.7	13.5	12.7	13.1	13.9	13.9	14.3	15.9
87.5°	7.7	8.5	7.7	7.8	8.0	8.0	7.8	7.7	8.1	8.0	7.8
90°	22.9	23.7	22.9	22.1	22.9	21.3	20.5	19.7	19.0	19.7	17.4
92.5°	38.1	39.5	38.7	41.1	42.5	46.6	52.7	66.4	91.6	121.4	133.6
95°	91.6	94.7	100.3	107.3	122.4	150.8	192.7	284.3	379.8	468.2	416.9
97.5°	249.3	256.1	277.4	313.0	371.2	465.6	567.5	708.5	776.3	725.6	531.2
100°	495.0	494.2	525.0	582.7	662.4	774.6	866.9	930.9	903.2	747.7	505.3
102.5°	726.2	744.4	770.1	815.8	877.8	948.9	1002.7	1004.7	909.6	706.6	467.4
105°	1004.3	1008.2	1033.5	1063.5	1099.8	1120.3	1105.3	1026.4	861.4	634.8	420.8
107.5°	1164.4	1171.6	1180.2	1190.3	1189.6	1161.5	1092.4	964.2	777.1	571.3	391.1
110°	1230.1	1231.6	1233.2	1226.9	1204.9	1149.5	1050.1	904.8	724.0	535.3	379.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1243.3	1243.0	1237.1	1217.5	1177.0	1106.0	994.5	846.1	677.9	511.3	373.4
115°	1221.4	1217.5	1201.6	1166.9	1107.7	1021.7	905.5	768.2	622.2	485.5	371.1
117.5°	1151.7	1146.2	1123.5	1083.7	1022.0	934.6	830.4	711.9	588.5	470.4	372.5
120°	1093.5	1088.7	1069.9	1025.6	963.2	883.5	788.7	682.2	570.9	463.4	375.1
122.5°	1039.2	1033.2	1012.3	972.5	917.2	843.0	755.3	658.8	556.3	459.1	379.4
125°	963.2	957.7	938.0	903.2	852.7	789.5	713.8	627.6	537.7	453.2	386.1
127.5°	900.7	895.6	877.8	848.1	803.1	745.7	677.2	600.6	521.3	450.4	393.6
130°	865.4	859.0	842.4	814.1	772.1	718.5	654.5	583.5	512.4	448.5	398.7
132.5°	830.6	826.2	811.5	783.0	743.8	692.6	633.1	567.6	504.2	447.8	402.5
135°	780.8	775.3	761.1	737.4	698.7	653.7	602.4	546.3	493.4	446.9	408.2
137.5°	728.3	724.7	712.7	688.6	656.1	617.1	572.9	526.9	484.1	445.1	412.0
140°	691.7	692.5	679.7	657.7	627.6	593.7	555.8	515.5	478.5	444.5	414.5
142.5°	657.5	658.3	646.9	627.3	601.8	572.3	539.4	504.8	473.4	443.2	416.4
145°	610.3	608.7	602.4	585.8	566.1	543.2	518.0	491.9	466.7	441.3	417.7
147.5°	571.5	570.9	564.8	553.6	538.7	522.4	502.0	481.3	460.0	438.4	417.7
150°	548.8	548.8	544.0	535.3	523.4	508.5	491.9	473.7	455.6	435.9	417.7
152.5°	529.8	529.8	526.9	518.9	509.6	497.1	482.4	466.8	450.5	432.6	415.8
155°	506.0	505.3	503.7	497.4	490.3	480.8	469.0	456.4	442.9	427.2	413.7
157.5°	484.4	484.6	483.3	478.6	472.4	465.0	455.9	445.2	434.4	422.2	411.0
160°	470.6	471.3	471.3	466.7	461.1	455.6	447.7	439.0	428.7	418.5	409.8
162.5°	458.0	458.7	458.7	454.6	451.0	446.1	438.8	431.4	423.0	414.7	407.3
165°	441.3	441.3	442.1	439.0	435.9	431.9	426.4	421.6	415.3	409.0	403.4
167.5°	425.6	425.6	426.4	424.1	422.7	419.9	416.7	413.0	407.9	403.3	399.7
170°	416.1	416.1	416.9	415.3	414.5	412.9	409.8	407.4	403.4	399.5	397.2
172.5°	407.3	407.9	409.3	407.7	407.6	406.6	404.0	402.3	399.0	396.4	395.3
175°	397.2	397.9	398.7	397.9	397.9	397.9	396.4	395.6	393.9	392.4	392.4
177.5°	391.3	391.3	392.5	391.9	392.5	392.5	391.9	391.3	390.6	390.0	390.6
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	932.9	932.0	927.7	922.7	916.3	911.9	908.5	906.7	901.1	894.2	889.6
5°	990.6	979.0	966.6	951.5	937.6	923.3	914.4	903.9	891.2	876.9	866.8
7.5°	1052.3	1029.6	1005.0	979.8	954.7	932.3	912.5	895.5	875.3	854.7	840.3
10°	1099.6	1066.4	1032.0	996.7	964.6	934.5	911.3	888.5	864.1	840.5	822.7
12.5°	1142.7	1098.9	1059.2	1015.9	974.9	938.9	905.4	878.6	849.3	824.2	803.9
15°	1197.1	1152.3	1104.3	1038.5	984.0	938.4	897.8	862.5	827.0	796.1	776.3
17.5°	1248.0	1180.5	1116.1	1061.2	990.4	933.3	883.7	841.6	802.6	769.8	745.5
20°	1269.1	1203.8	1133.7	1063.7	994.1	930.3	872.6	826.2	785.6	748.4	726.0
22.5°	1281.7	1207.7	1134.0	1058.7	984.8	918.5	861.5	810.4	766.4	731.1	703.5
25°	1296.6	1208.3	1127.1	1052.9	977.4	905.4	837.8	783.7	736.1	698.5	669.1
27.5°	1306.3	1202.5	1106.5	1024.0	947.5	875.9	813.9	756.4	708.1	668.4	636.9
30°	1308.2	1197.9	1090.8	1001.4	923.6	857.9	792.1	737.2	686.2	644.0	614.6
32.5°	1310.6	1186.5	1069.4	974.5	894.9	829.8	770.2	717.7	665.4	623.9	593.9
35°	1300.4	1180.1	1037.0	928.0	848.3	785.2	731.4	683.1	631.7	591.4	560.9
37.5°	1256.5	1155.0	1003.4	875.5	792.1	733.8	689.9	647.8	600.7	557.2	528.5
40°	1212.2	1130.2	977.4	843.6	756.6	696.6	657.1	622.8	577.1	536.4	505.5
42.5°	1146.3	1096.5	952.7	810.2	716.3	658.5	625.3	593.0	553.0	511.7	482.6
45°	1025.4	1032.0	902.0	757.0	660.7	602.6	571.3	548.9	513.3	479.3	449.5
47.5°	873.7	935.2	842.5	700.2	602.0	547.4	520.1	500.5	476.6	443.1	416.0
50°	774.8	862.5	794.9	662.2	565.1	511.0	483.9	468.1	447.2	420.8	395.0
52.5°	683.5	777.8	737.3	619.8	525.2	475.6	449.2	436.2	419.6	394.9	371.4
55°	557.3	652.9	643.6	555.8	465.3	420.8	400.7	386.1	374.8	356.3	337.7
57.5°	450.8	541.4	546.2	484.6	412.5	368.6	351.3	340.2	332.9	318.9	301.7
60°	383.7	466.9	483.1	436.7	374.8	336.1	319.1	310.2	304.4	293.2	280.0
62.5°	328.0	398.8	417.2	383.7	338.6	302.4	289.1	280.5	276.6	266.9	255.3
65°	251.1	309.8	327.6	309.0	285.5	256.4	245.6	238.2	234.8	229.3	220.9
67.5°	188.7	231.7	251.2	238.0	229.5	211.2	204.3	200.4	197.2	193.6	186.4
70°	151.6	183.4	203.5	200.0	193.0	183.4	178.3	175.6	172.5	169.5	163.2
72.5°	121.9	143.7	162.6	164.4	158.6	156.7	152.3	151.2	149.3	145.6	142.2
75°	80.9	95.9	109.1	114.1	116.4	118.4	116.4	116.0	115.6	112.6	110.6
77.5°	53.0	61.1	69.4	78.0	81.6	84.2	84.8	86.2	85.2	83.6	82.7
80°	40.6	42.5	48.4	55.7	61.5	63.8	65.3	66.1	65.7	65.3	63.8
82.5°	29.5	31.1	33.8	39.0	43.8	47.8	48.7	48.5	49.4	49.6	48.4
85°	15.9	16.3	17.1	17.8	20.5	24.7	26.0	26.7	27.5	27.5	25.1
87.5°	8.0	7.2	7.3	7.0	7.6	7.5	9.0	10.2	10.8	9.9	10.4
90°	15.0	12.6	10.3	8.7	7.1	4.7	3.1	1.6	3.1	4.7	7.1
92.5°	100.3	66.3	45.6	33.9	27.4	21.2	14.5	9.8	14.5	21.2	27.4
95°	287.4	169.8	102.6	71.8	51.3	37.9	29.2	26.9	29.2	37.9	51.3
97.5°	315.4	182.7	118.6	85.2	65.0	53.4	46.6	45.7	46.6	53.4	65.0
100°	297.6	180.8	125.5	94.7	75.8	64.7	59.2	58.5	59.2	64.7	75.8
102.5°	282.5	183.3	133.7	105.5	88.5	78.0	73.1	71.7	73.1	78.0	88.5
105°	271.6	190.3	147.6	123.2	108.2	98.7	93.9	91.6	93.9	98.7	108.2
107.5°	270.8	203.2	165.8	143.1	129.0	119.7	115.1	112.7	115.1	119.7	129.0
110°	274.0	214.0	178.4	156.3	142.9	134.2	130.3	127.9	130.3	134.2	142.9





TEST NUMBER: P332284-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	280.2	224.7	191.7	170.3	156.8	148.1	144.2	141.8	144.2	148.1	156.8
115°	290.5	242.4	212.4	191.1	177.6	169.8	165.0	161.9	165.0	169.8	177.6
117.5°	304.2	261.2	231.5	211.8	196.7	189.5	185.5	181.9	185.5	189.5	196.7
120°	314.3	273.2	244.8	225.0	210.1	202.1	198.1	195.8	198.1	202.1	210.1
122.5°	323.7	285.8	258.0	237.0	222.7	214.1	210.2	207.8	210.2	214.1	222.7
125°	338.7	304.0	276.3	255.0	240.0	231.4	226.6	225.0	226.6	231.4	240.0
127.5°	351.0	319.7	293.1	271.8	255.2	246.3	240.4	238.1	240.4	246.3	255.2
130°	359.2	329.2	303.2	281.9	265.3	255.8	248.7	246.3	248.7	255.8	265.3
132.5°	366.8	337.4	312.0	291.3	274.8	263.4	255.7	252.7	255.7	263.4	274.8
135°	376.6	349.7	325.3	304.0	287.4	275.6	266.9	263.7	266.9	275.6	287.4
137.5°	383.8	358.3	334.8	315.0	298.6	286.0	277.4	274.1	277.4	286.0	298.6
140°	387.7	364.0	341.0	321.3	305.6	293.0	285.0	281.0	285.0	293.0	305.6
142.5°	391.4	368.4	346.1	327.7	311.8	300.5	292.0	288.6	292.0	300.5	311.8
145°	395.6	374.3	353.8	335.6	322.1	310.3	303.2	300.8	303.2	310.3	322.1
147.5°	398.1	379.0	360.2	344.7	331.7	321.5	314.6	313.2	314.6	321.5	331.7
150°	398.7	382.1	364.0	349.7	338.7	328.4	322.1	321.3	322.1	328.4	338.7
152.5°	400.0	384.1	368.4	354.8	345.1	336.0	329.7	329.5	329.7	336.0	345.1
155°	400.3	387.7	374.3	363.1	354.5	346.6	341.8	341.8	341.8	346.6	354.5
157.5°	401.1	389.7	379.0	370.4	363.0	356.1	352.2	351.6	352.2	356.1	363.0
160°	401.1	391.6	382.1	374.3	368.7	362.4	359.2	359.2	359.2	362.4	368.7
162.5°	400.4	392.2	384.1	377.4	372.5	367.5	365.0	365.0	365.0	367.5	372.5
165°	398.7	393.1	386.9	381.3	378.2	374.3	372.6	373.4	372.6	374.3	378.2
167.5°	397.5	393.0	388.5	385.0	382.7	379.8	379.0	379.9	379.0	379.8	382.7
170°	395.6	392.4	388.5	386.9	385.3	382.9	382.1	383.7	382.1	382.9	385.3
172.5°	395.0	392.4	389.1	388.1	387.2	385.5	385.3	386.3	385.3	385.5	387.2
175°	393.1	391.6	390.0	389.2	389.2	387.7	388.5	389.2	388.5	387.7	389.2
177.5°	391.9	390.6	390.0	390.0	390.0	389.4	390.0	390.6	390.0	389.4	390.0
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332284-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	888.1	884.0	881.3	875.0	871.1	866.8	862.4	865.2	864.8	864.5	864.5
5°	858.3	849.4	841.3	830.8	824.3	816.2	809.9	809.2	810.7	805.3	802.2
7.5°	828.8	816.6	805.1	793.6	781.3	771.5	765.5	762.7	758.7	755.4	751.8
10°	808.0	793.8	782.4	768.2	755.1	743.5	736.1	731.0	728.3	725.6	720.6
12.5°	786.7	772.6	758.3	742.1	729.6	716.2	710.7	705.1	699.8	696.8	689.9
15°	755.4	737.2	722.2	705.1	691.3	678.0	670.3	659.1	657.5	653.7	646.7
17.5°	724.1	704.4	683.6	671.0	655.2	641.6	629.8	626.0	614.9	610.8	604.7
20°	699.3	681.2	665.3	648.6	625.8	613.1	603.8	598.7	589.9	584.4	580.6
22.5°	678.0	659.4	641.2	621.8	602.9	588.7	581.8	574.0	569.2	561.6	557.3
25°	647.5	627.4	605.3	584.4	570.9	560.1	549.3	542.3	535.3	531.8	524.1
27.5°	612.1	591.1	570.5	554.6	538.0	527.3	517.5	511.3	502.9	497.1	492.8
30°	592.6	567.8	550.1	535.7	514.4	504.4	497.1	489.3	483.1	477.0	472.6
32.5°	570.0	547.3	530.5	512.8	496.4	485.5	475.9	469.2	463.9	458.1	453.8
35°	534.5	515.6	498.2	480.4	468.4	457.2	446.0	440.2	435.2	429.7	425.9
37.5°	502.5	484.8	468.3	451.4	436.6	427.4	418.4	413.9	407.2	403.5	399.6
40°	482.7	465.3	447.6	431.3	415.8	408.9	400.7	394.2	388.0	385.3	381.0
42.5°	461.1	443.6	428.7	411.1	398.5	389.0	381.5	374.4	369.7	365.8	363.3
45°	429.0	413.4	398.8	381.4	369.4	361.2	352.7	346.2	341.9	339.2	335.0
47.5°	397.8	382.3	367.4	352.2	340.6	331.3	322.9	318.2	312.7	309.3	306.4
50°	375.2	361.2	345.4	331.4	319.9	310.6	303.7	297.8	292.8	288.5	286.6
52.5°	354.5	339.6	325.9	313.0	300.7	290.1	283.9	277.7	274.0	269.0	266.8
55°	320.2	306.0	294.4	281.6	269.6	260.7	253.0	247.5	243.7	238.2	235.2
57.5°	288.1	275.3	261.5	250.4	238.0	230.6	224.1	216.7	212.1	207.8	204.8
60°	266.5	251.8	239.8	229.3	218.5	208.8	203.1	197.2	192.3	187.9	185.3
62.5°	243.9	231.1	219.7	208.3	198.4	190.0	183.3	178.3	174.0	171.3	168.5
65°	209.2	199.2	187.6	178.3	169.1	162.9	157.4	153.2	150.1	148.1	145.8
67.5°	177.4	167.6	157.5	148.3	142.2	137.4	133.9	130.3	128.8	126.2	124.7
70°	156.6	146.6	137.7	130.8	124.5	121.1	118.8	116.0	114.5	111.4	109.9
72.5°	134.1	126.8	120.4	114.6	109.7	106.5	103.6	100.3	97.8	94.4	92.8
75°	105.6	99.1	94.0	90.1	87.1	82.8	78.6	75.0	73.9	72.7	72.3
77.5°	78.2	74.0	70.4	67.2	63.3	60.2	59.3	58.5	58.3	57.7	57.7
80°	61.5	57.7	54.9	51.1	48.8	48.8	48.8	48.0	48.4	48.4	48.4
82.5°	45.7	42.1	40.7	39.3	38.9	39.2	39.2	39.3	39.1	39.7	39.4
85°	23.6	23.9	24.7	24.3	24.7	24.7	25.5	25.1	25.5	24.7	25.5
87.5°	10.4	11.6	12.4	13.2	14.0	14.1	14.3	14.4	14.9	15.0	15.5
90°	8.7	10.3	12.6	15.0	17.4	19.7	19.0	19.7	20.5	21.3	22.9
92.5°	33.9	45.6	66.3	100.3	133.6	121.4	91.6	66.4	52.7	46.6	42.5
95°	71.8	102.6	169.8	287.4	416.9	468.2	379.8	284.3	192.7	150.8	122.4
97.5°	85.2	118.6	182.7	315.4	531.2	725.6	776.3	708.5	567.5	465.6	371.2
100°	94.7	125.5	180.8	297.6	505.3	747.7	903.2	930.9	866.9	774.6	662.4
102.5°	105.5	133.7	183.3	282.5	467.4	706.6	909.6	1004.7	1002.7	948.9	877.8
105°	123.2	147.6	190.3	271.6	420.8	634.8	861.4	1026.4	1105.3	1120.3	1099.8
107.5°	143.1	165.8	203.2	270.8	391.1	571.3	777.1	964.2	1092.4	1161.5	1189.6
110°	156.3	178.4	214.0	274.0	379.8	535.3	724.0	904.8	1050.1	1149.5	1204.9



TEST NUMBER: P332284-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.3	191.7	224.7	280.2	373.4	511.3	677.9	846.1	994.5	1106.0	1177.0
115°	191.1	212.4	242.4	290.5	371.1	485.5	622.2	768.2	905.5	1021.7	1107.7
117.5°	211.8	231.5	261.2	304.2	372.5	470.4	588.5	711.9	830.4	934.6	1022.0
120°	225.0	244.8	273.2	314.3	375.1	463.4	570.9	682.2	788.7	883.5	963.2
122.5°	237.0	258.0	285.8	323.7	379.4	459.1	556.3	658.8	755.3	843.0	917.2
125°	255.0	276.3	304.0	338.7	386.1	453.2	537.7	627.6	713.8	789.5	852.7
127.5°	271.8	293.1	319.7	351.0	393.6	450.4	521.3	600.6	677.2	745.7	803.1
130°	281.9	303.2	329.2	359.2	398.7	448.5	512.4	583.5	654.5	718.5	772.1
132.5°	291.3	312.0	337.4	366.8	402.5	447.8	504.2	567.6	633.1	692.6	743.8
135°	304.0	325.3	349.7	376.6	408.2	446.9	493.4	546.3	602.4	653.7	698.7
137.5°	315.0	334.8	358.3	383.8	412.0	445.1	484.1	526.9	572.9	617.1	656.1
140°	321.3	341.0	364.0	387.7	414.5	444.5	478.5	515.5	555.8	593.7	627.6
142.5°	327.7	346.1	368.4	391.4	416.4	443.2	473.4	504.8	539.4	572.3	601.8
145°	335.6	353.8	374.3	395.6	417.7	441.3	466.7	491.9	518.0	543.2	566.1
147.5°	344.7	360.2	379.0	398.1	417.7	438.4	460.0	481.3	502.0	522.4	538.7
150°	349.7	364.0	382.1	398.7	417.7	435.9	455.6	473.7	491.9	508.5	523.4
152.5°	354.8	368.4	384.1	400.0	415.8	432.6	450.5	466.8	482.4	497.1	509.6
155°	363.1	374.3	387.7	400.3	413.7	427.2	442.9	456.4	469.0	480.8	490.3
157.5°	370.4	379.0	389.7	401.1	411.0	422.2	434.4	445.2	455.9	465.0	472.4
160°	374.3	382.1	391.6	401.1	409.8	418.5	428.7	439.0	447.7	455.6	461.1
162.5°	377.4	384.1	392.2	400.4	407.3	414.7	423.0	431.4	438.8	446.1	451.0
165°	381.3	386.9	393.1	398.7	403.4	409.0	415.3	421.6	426.4	431.9	435.9
167.5°	385.0	388.5	393.0	397.5	399.7	403.3	407.9	413.0	416.7	419.9	422.7
170°	386.9	388.5	392.4	395.6	397.2	399.5	403.4	407.4	409.8	412.9	414.5
172.5°	388.1	389.1	392.4	395.0	395.3	396.4	399.0	402.3	404.0	406.6	407.6
175°	389.2	390.0	391.6	393.1	392.4	392.4	393.9	395.6	396.4	397.9	397.9
177.5°	390.0	390.0	390.6	391.9	390.6	390.0	390.6	391.3	391.9	392.5	392.5
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332284-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	860.8	860.5	860.8	859.6	860.8	860.5	860.8	864.5	864.5	864.8	865.2
5°	801.0	800.6	799.5	796.1	799.5	800.6	801.0	802.2	805.3	810.7	809.2
7.5°	748.8	748.3	744.9	745.0	744.9	748.3	748.8	751.8	755.4	758.7	762.7
10°	717.9	718.3	713.7	710.9	713.7	718.3	717.9	720.6	725.6	728.3	731.0
12.5°	687.9	686.1	682.4	679.3	682.4	686.1	687.9	689.9	696.8	699.8	705.1
15°	648.2	644.4	635.1	635.9	635.1	644.4	648.2	646.7	653.7	657.5	659.1
17.5°	601.6	598.7	598.6	593.2	598.6	598.7	601.6	604.7	610.8	614.9	626.0
20°	574.4	572.5	573.2	567.8	573.2	572.5	574.4	580.6	584.4	589.9	598.7
22.5°	553.0	551.1	547.9	546.1	547.9	551.1	553.0	557.3	561.6	569.2	574.0
25°	521.8	518.7	515.6	517.6	515.6	518.7	521.8	524.1	531.8	535.3	542.3
27.5°	490.5	488.2	485.1	484.7	485.1	488.2	490.5	492.8	497.1	502.9	511.3
30°	470.7	468.4	466.9	464.9	466.9	468.4	470.7	472.6	477.0	483.1	489.3
32.5°	450.6	450.2	447.4	447.0	447.4	450.2	450.6	453.8	458.1	463.9	469.2
35°	424.3	422.0	421.2	421.6	421.2	422.0	424.3	425.9	429.7	435.2	440.2
37.5°	399.3	396.3	394.9	393.4	394.9	396.3	399.3	399.6	403.5	407.2	413.9
40°	381.4	378.3	377.5	376.8	377.5	378.3	381.4	381.0	385.3	388.0	394.2
42.5°	361.2	360.0	359.6	358.2	359.6	360.0	361.2	363.3	365.8	369.7	374.4
45°	333.8	333.5	331.1	331.8	331.1	333.5	333.8	335.0	339.2	341.9	346.2
47.5°	304.9	303.2	301.5	302.7	301.5	303.2	304.9	306.4	309.3	312.7	318.2
50°	285.1	284.3	280.8	281.6	280.8	284.3	285.1	286.6	288.5	292.8	297.8
52.5°	265.3	262.4	261.1	260.5	261.1	262.4	265.3	266.8	269.0	274.0	277.7
55°	232.5	228.9	227.4	226.6	227.4	228.9	232.5	235.2	238.2	243.7	247.5
57.5°	200.3	199.3	198.1	198.9	198.1	199.3	200.3	204.8	207.8	212.1	216.7
60°	181.4	181.4	181.4	181.1	181.4	181.4	181.4	185.3	187.9	192.3	197.2
62.5°	166.8	165.9	165.6	166.1	165.6	165.9	166.8	168.5	171.3	174.0	178.3
65°	144.6	144.3	142.7	142.4	142.7	144.3	144.6	145.8	148.1	150.1	153.2
67.5°	123.7	122.3	121.9	121.3	121.9	122.3	123.7	124.7	126.2	128.8	130.3
70°	108.0	107.1	104.8	105.2	104.8	107.1	108.0	109.9	111.4	114.5	116.0
72.5°	90.9	90.1	89.7	89.1	89.7	90.1	90.9	92.8	94.4	97.8	100.3
75°	71.9	71.6	71.2	72.7	71.2	71.6	71.9	72.3	72.7	73.9	75.0
77.5°	57.7	57.7	57.9	57.3	57.9	57.7	57.7	57.7	57.7	58.3	58.5
80°	48.4	48.4	48.0	48.0	48.0	48.4	48.4	48.4	48.4	48.4	48.0
82.5°	38.8	39.1	39.3	38.7	39.3	39.1	38.8	39.4	39.7	39.1	39.3
85°	25.5	25.1	26.0	25.5	26.0	25.1	25.5	25.5	24.7	25.5	25.1
87.5°	15.9	15.5	15.6	15.8	15.6	15.5	15.9	15.5	15.0	14.9	14.4
90°	22.1	22.9	23.7	22.9	23.7	22.9	22.1	22.9	21.3	20.5	19.7
92.5°	41.1	38.7	39.5	38.1	39.5	38.7	41.1	42.5	46.6	52.7	66.4
95°	107.3	100.3	94.7	91.6	94.7	100.3	107.3	122.4	150.8	192.7	284.3
97.5°	313.0	277.4	256.1	249.3	256.1	277.4	313.0	371.2	465.6	567.5	708.5
100°	582.7	525.0	494.2	495.0	494.2	525.0	582.7	662.4	774.6	866.9	930.9
102.5°	815.8	770.1	744.4	726.2	744.4	770.1	815.8	877.8	948.9	1002.7	1004.7
105°	1063.5	1033.5	1008.2	1004.3	1008.2	1033.5	1063.5	1099.8	1120.3	1105.3	1026.4
107.5°	1190.3	1180.2	1171.6	1164.4	1171.6	1180.2	1190.3	1189.6	1161.5	1092.4	964.2
110°	1226.9	1233.2	1231.6	1230.1	1231.6	1233.2	1226.9	1204.9	1149.5	1050.1	904.8



TEST NUMBER: P332284-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1217.5	1237.1	1243.0	1243.3	1243.0	1237.1	1217.5	1177.0	1106.0	994.5	846.1
115°	1166.9	1201.6	1217.5	1221.4	1217.5	1201.6	1166.9	1107.7	1021.7	905.5	768.2
117.5°	1083.7	1123.5	1146.2	1151.7	1146.2	1123.5	1083.7	1022.0	934.6	830.4	711.9
120°	1025.6	1069.9	1088.7	1093.5	1088.7	1069.9	1025.6	963.2	883.5	788.7	682.2
122.5°	972.5	1012.3	1033.2	1039.2	1033.2	1012.3	972.5	917.2	843.0	755.3	658.8
125°	903.2	938.0	957.7	963.2	957.7	938.0	903.2	852.7	789.5	713.8	627.6
127.5°	848.1	877.8	895.6	900.7	895.6	877.8	848.1	803.1	745.7	677.2	600.6
130°	814.1	842.4	859.0	865.4	859.0	842.4	814.1	772.1	718.5	654.5	583.5
132.5°	783.0	811.5	826.2	830.6	826.2	811.5	783.0	743.8	692.6	633.1	567.6
135°	737.4	761.1	775.3	780.8	775.3	761.1	737.4	698.7	653.7	602.4	546.3
137.5°	688.6	712.7	724.7	728.3	724.7	712.7	688.6	656.1	617.1	572.9	526.9
140°	657.7	679.7	692.5	691.7	692.5	679.7	657.7	627.6	593.7	555.8	515.5
142.5°	627.3	646.9	658.3	657.5	658.3	646.9	627.3	601.8	572.3	539.4	504.8
145°	585.8	602.4	608.7	610.3	608.7	602.4	585.8	566.1	543.2	518.0	491.9
147.5°	553.6	564.8	570.9	571.5	570.9	564.8	553.6	538.7	522.4	502.0	481.3
150°	535.3	544.0	548.8	548.8	548.8	544.0	535.3	523.4	508.5	491.9	473.7
152.5°	518.9	526.9	529.8	529.8	529.8	526.9	518.9	509.6	497.1	482.4	466.8
155°	497.4	503.7	505.3	506.0	505.3	503.7	497.4	490.3	480.8	469.0	456.4
157.5°	478.6	483.3	484.6	484.4	484.6	483.3	478.6	472.4	465.0	455.9	445.2
160°	466.7	471.3	471.3	470.6	471.3	471.3	466.7	461.1	455.6	447.7	439.0
162.5°	454.6	458.7	458.7	458.0	458.7	458.7	454.6	451.0	446.1	438.8	431.4
165°	439.0	442.1	441.3	441.3	441.3	442.1	439.0	435.9	431.9	426.4	421.6
167.5°	424.1	426.4	425.6	425.6	425.6	426.4	424.1	422.7	419.9	416.7	413.0
170°	415.3	416.9	416.1	416.1	416.1	416.9	415.3	414.5	412.9	409.8	407.4
172.5°	407.7	409.3	407.9	407.3	407.9	409.3	407.7	407.6	406.6	404.0	402.3
175°	397.9	398.7	397.9	397.2	397.9	398.7	397.9	397.9	397.9	396.4	395.6
177.5°	391.9	392.5	391.3	391.3	391.3	392.5	391.9	392.5	392.5	391.9	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332284-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	862.4	866.8	871.1	875.0	881.3	884.0	888.1	889.6	894.2	901.1	906.7
5°	809.9	816.2	824.3	830.8	841.3	849.4	858.3	866.8	876.9	891.2	903.9
7.5°	765.5	771.5	781.3	793.6	805.1	816.6	828.8	840.3	854.7	875.3	895.5
10°	736.1	743.5	755.1	768.2	782.4	793.8	808.0	822.7	840.5	864.1	888.5
12.5°	710.7	716.2	729.6	742.1	758.3	772.6	786.7	803.9	824.2	849.3	878.6
15°	670.3	678.0	691.3	705.1	722.2	737.2	755.4	776.3	796.1	827.0	862.5
17.5°	629.8	641.6	655.2	671.0	683.6	704.4	724.1	745.5	769.8	802.6	841.6
20°	603.8	613.1	625.8	648.6	665.3	681.2	699.3	726.0	748.4	785.6	826.2
22.5°	581.8	588.7	602.9	621.8	641.2	659.4	678.0	703.5	731.1	766.4	810.4
25°	549.3	560.1	570.9	584.4	605.3	627.4	647.5	669.1	698.5	736.1	783.7
27.5°	517.5	527.3	538.0	554.6	570.5	591.1	612.1	636.9	668.4	708.1	756.4
30°	497.1	504.4	514.4	535.7	550.1	567.8	592.6	614.6	644.0	686.2	737.2
32.5°	475.9	485.5	496.4	512.8	530.5	547.3	570.0	593.9	623.9	665.4	717.7
35°	446.0	457.2	468.4	480.4	498.2	515.6	534.5	560.9	591.4	631.7	683.1
37.5°	418.4	427.4	436.6	451.4	468.3	484.8	502.5	528.5	557.2	600.7	647.8
40°	400.7	408.9	415.8	431.3	447.6	465.3	482.7	505.5	536.4	577.1	622.8
42.5°	381.5	389.0	398.5	411.1	428.7	443.6	461.1	482.6	511.7	553.0	593.0
45°	352.7	361.2	369.4	381.4	398.8	413.4	429.0	449.5	479.3	513.3	548.9
47.5°	322.9	331.3	340.6	352.2	367.4	382.3	397.8	416.0	443.1	476.6	500.5
50°	303.7	310.6	319.9	331.4	345.4	361.2	375.2	395.0	420.8	447.2	468.1
52.5°	283.9	290.1	300.7	313.0	325.9	339.6	354.5	371.4	394.9	419.6	436.2
55°	253.0	260.7	269.6	281.6	294.4	306.0	320.2	337.7	356.3	374.8	386.1
57.5°	224.1	230.6	238.0	250.4	261.5	275.3	288.1	301.7	318.9	332.9	340.2
60°	203.1	208.8	218.5	229.3	239.8	251.8	266.5	280.0	293.2	304.4	310.2
62.5°	183.3	190.0	198.4	208.3	219.7	231.1	243.9	255.3	266.9	276.6	280.5
65°	157.4	162.9	169.1	178.3	187.6	199.2	209.2	220.9	229.3	234.8	238.2
67.5°	133.9	137.4	142.2	148.3	157.5	167.6	177.4	186.4	193.6	197.2	200.4
70°	118.8	121.1	124.5	130.8	137.7	146.6	156.6	163.2	169.5	172.5	175.6
72.5°	103.6	106.5	109.7	114.6	120.4	126.8	134.1	142.2	145.6	149.3	151.2
75°	78.6	82.8	87.1	90.1	94.0	99.1	105.6	110.6	112.6	115.6	116.0
77.5°	59.3	60.2	63.3	67.2	70.4	74.0	78.2	82.7	83.6	85.2	86.2
80°	48.8	48.8	48.8	51.1	54.9	57.7	61.5	63.8	65.3	65.7	66.1
82.5°	39.2	39.2	38.9	39.3	40.7	42.1	45.7	48.4	49.6	49.4	48.5
85°	25.5	24.7	24.7	24.3	24.7	23.9	23.6	25.1	27.5	27.5	26.7
87.5°	14.3	14.1	14.0	13.2	12.4	11.6	10.4	10.4	9.9	10.8	10.2
90°	19.0	19.7	17.4	15.0	12.6	10.3	8.7	7.1	4.7	3.1	1.6
92.5°	91.6	121.4	133.6	100.3	66.3	45.6	33.9	27.4	21.2	14.5	9.8
95°	379.8	468.2	416.9	287.4	169.8	102.6	71.8	51.3	37.9	29.2	26.9
97.5°	776.3	725.6	531.2	315.4	182.7	118.6	85.2	65.0	53.4	46.6	45.7
100°	903.2	747.7	505.3	297.6	180.8	125.5	94.7	75.8	64.7	59.2	58.5
102.5°	909.6	706.6	467.4	282.5	183.3	133.7	105.5	88.5	78.0	73.1	71.7
105°	861.4	634.8	420.8	271.6	190.3	147.6	123.2	108.2	98.7	93.9	91.6
107.5°	777.1	571.3	391.1	270.8	203.2	165.8	143.1	129.0	119.7	115.1	112.7
110°	724.0	535.3	379.8	274.0	214.0	178.4	156.3	142.9	134.2	130.3	127.9



TEST NUMBER: P332284-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	677.9	511.3	373.4	280.2	224.7	191.7	170.3	156.8	148.1	144.2	141.8
115°	622.2	485.5	371.1	290.5	242.4	212.4	191.1	177.6	169.8	165.0	161.9
117.5°	588.5	470.4	372.5	304.2	261.2	231.5	211.8	196.7	189.5	185.5	181.9
120°	570.9	463.4	375.1	314.3	273.2	244.8	225.0	210.1	202.1	198.1	195.8
122.5°	556.3	459.1	379.4	323.7	285.8	258.0	237.0	222.7	214.1	210.2	207.8
125°	537.7	453.2	386.1	338.7	304.0	276.3	255.0	240.0	231.4	226.6	225.0
127.5°	521.3	450.4	393.6	351.0	319.7	293.1	271.8	255.2	246.3	240.4	238.1
130°	512.4	448.5	398.7	359.2	329.2	303.2	281.9	265.3	255.8	248.7	246.3
132.5°	504.2	447.8	402.5	366.8	337.4	312.0	291.3	274.8	263.4	255.7	252.7
135°	493.4	446.9	408.2	376.6	349.7	325.3	304.0	287.4	275.6	266.9	263.7
137.5°	484.1	445.1	412.0	383.8	358.3	334.8	315.0	298.6	286.0	277.4	274.1
140°	478.5	444.5	414.5	387.7	364.0	341.0	321.3	305.6	293.0	285.0	281.0
142.5°	473.4	443.2	416.4	391.4	368.4	346.1	327.7	311.8	300.5	292.0	288.6
145°	466.7	441.3	417.7	395.6	374.3	353.8	335.6	322.1	310.3	303.2	300.8
147.5°	460.0	438.4	417.7	398.1	379.0	360.2	344.7	331.7	321.5	314.6	313.2
150°	455.6	435.9	417.7	398.7	382.1	364.0	349.7	338.7	328.4	322.1	321.3
152.5°	450.5	432.6	415.8	400.0	384.1	368.4	354.8	345.1	336.0	329.7	329.5
155°	442.9	427.2	413.7	400.3	387.7	374.3	363.1	354.5	346.6	341.8	341.8
157.5°	434.4	422.2	411.0	401.1	389.7	379.0	370.4	363.0	356.1	352.2	351.6
160°	428.7	418.5	409.8	401.1	391.6	382.1	374.3	368.7	362.4	359.2	359.2
162.5°	423.0	414.7	407.3	400.4	392.2	384.1	377.4	372.5	367.5	365.0	365.0
165°	415.3	409.0	403.4	398.7	393.1	386.9	381.3	378.2	374.3	372.6	373.4
167.5°	407.9	403.3	399.7	397.5	393.0	388.5	385.0	382.7	379.8	379.0	379.9
170°	403.4	399.5	397.2	395.6	392.4	388.5	386.9	385.3	382.9	382.1	383.7
172.5°	399.0	396.4	395.3	395.0	392.4	389.1	388.1	387.2	385.5	385.3	386.3
175°	393.9	392.4	392.4	393.1	391.6	390.0	389.2	389.2	387.7	388.5	389.2
177.5°	390.6	390.0	390.6	391.9	390.6	390.0	390.0	390.0	389.4	390.0	390.6
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332284-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	908.5	911.9	916.3	922.7	927.7	932.0	932.9	934.2	937.3	942.5	946.5
5°	914.4	923.3	937.6	951.5	966.6	979.0	990.6	998.8	1006.4	1022.7	1035.8
7.5°	912.5	932.3	954.7	979.8	1005.0	1029.6	1052.3	1072.7	1093.0	1116.6	1143.6
10°	911.3	934.5	964.6	996.7	1032.0	1066.4	1099.6	1125.6	1155.8	1182.9	1217.3
12.5°	905.4	938.9	974.9	1015.9	1059.2	1098.9	1142.7	1178.5	1212.9	1252.1	1292.1
15°	897.8	938.4	984.0	1038.5	1104.3	1152.3	1197.1	1259.4	1301.9	1344.5	1401.8
17.5°	883.7	933.3	990.4	1061.2	1116.1	1180.5	1248.0	1297.3	1354.5	1414.5	1466.3
20°	872.6	930.3	994.1	1063.7	1133.7	1203.8	1269.1	1327.9	1387.0	1456.3	1498.8
22.5°	861.5	918.5	984.8	1058.7	1134.0	1207.7	1281.7	1350.8	1417.3	1487.2	1541.6
25°	837.8	905.4	977.4	1052.9	1127.1	1208.3	1296.6	1373.5	1455.9	1527.8	1579.3
27.5°	813.9	875.9	947.5	1024.0	1106.5	1202.5	1306.3	1393.8	1476.3	1527.8	1544.0
30°	792.1	857.9	923.6	1001.4	1090.8	1197.9	1308.2	1408.4	1476.0	1498.4	1481.8
32.5°	770.2	829.8	894.9	974.5	1069.4	1186.5	1310.6	1399.7	1440.5	1423.3	1355.5
35°	731.4	785.2	848.3	928.0	1037.0	1180.1	1300.4	1360.8	1350.7	1253.9	1126.3
37.5°	689.9	733.8	792.1	875.5	1003.4	1155.0	1256.5	1265.4	1178.3	1029.9	882.4
40°	657.1	696.6	756.6	843.6	977.4	1130.2	1212.2	1176.3	1041.3	876.1	753.1
42.5°	625.3	658.5	716.3	810.2	952.7	1096.5	1146.3	1067.9	912.2	756.0	644.2
45°	571.3	602.6	660.7	757.0	902.0	1032.0	1025.4	889.3	733.4	607.6	514.8
47.5°	520.1	547.4	602.0	700.2	842.5	935.2	873.7	728.9	596.6	495.8	429.6
50°	483.9	511.0	565.1	662.2	794.9	862.5	774.8	635.1	514.0	430.5	377.9
52.5°	449.2	475.6	525.2	619.8	737.3	777.8	683.5	554.0	453.1	381.0	335.8
55°	400.7	420.8	465.3	555.8	643.6	652.9	557.3	449.1	365.9	315.6	284.7
57.5°	351.3	368.6	412.5	484.6	546.2	541.4	450.8	357.2	301.1	263.8	241.4
60°	319.1	336.1	374.8	436.7	483.1	466.9	383.7	308.3	260.3	232.9	215.1
62.5°	289.1	302.4	338.6	383.7	417.2	398.8	328.0	265.6	227.5	204.4	190.3
65°	245.6	256.4	285.5	309.0	327.6	309.8	251.1	207.7	180.3	164.0	154.3
67.5°	204.3	211.2	229.5	238.0	251.2	231.7	188.7	159.8	144.1	130.5	123.7
70°	178.3	183.4	193.0	200.0	203.5	183.4	151.6	130.4	117.2	107.6	103.3
72.5°	152.3	156.7	158.6	164.4	162.6	143.7	121.9	105.0	95.5	89.0	83.5
75°	116.4	118.4	116.4	114.1	109.1	95.9	80.9	72.3	65.3	62.3	60.4
77.5°	84.8	84.2	81.6	78.0	69.4	61.1	53.0	50.1	47.2	45.4	44.8
80°	65.3	63.8	61.5	55.7	48.4	42.5	40.6	38.7	37.6	35.5	35.2
82.5°	48.7	47.8	43.8	39.0	33.8	31.1	29.5	28.8	27.6	26.7	26.6
85°	26.0	24.7	20.5	17.8	17.1	16.3	15.9	15.9	14.3	13.9	13.9
87.5°	9.0	7.5	7.6	7.0	7.3	7.2	8.0	7.8	8.0	8.1	7.7
90°	3.1	4.7	7.1	8.7	10.3	12.6	15.0	17.4	19.7	19.0	19.7
92.5°	14.5	21.2	27.4	33.9	45.6	66.3	100.3	133.6	121.4	91.6	66.4
95°	29.2	37.9	51.3	71.8	102.6	169.8	287.4	416.9	468.2	379.8	284.3
97.5°	46.6	53.4	65.0	85.2	118.6	182.7	315.4	531.2	725.6	776.3	708.5
100°	59.2	64.7	75.8	94.7	125.5	180.8	297.6	505.3	747.7	903.2	930.9
102.5°	73.1	78.0	88.5	105.5	133.7	183.3	282.5	467.4	706.6	909.6	1004.7
105°	93.9	98.7	108.2	123.2	147.6	190.3	271.6	420.8	634.8	861.4	1026.4
107.5°	115.1	119.7	129.0	143.1	165.8	203.2	270.8	391.1	571.3	777.1	964.2
110°	130.3	134.2	142.9	156.3	178.4	214.0	274.0	379.8	535.3	724.0	904.8





TEST NUMBER: P332284-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	144.2	148.1	156.8	170.3	191.7	224.7	280.2	373.4	511.3	677.9	846.1
115°	165.0	169.8	177.6	191.1	212.4	242.4	290.5	371.1	485.5	622.2	768.2
117.5°	185.5	189.5	196.7	211.8	231.5	261.2	304.2	372.5	470.4	588.5	711.9
120°	198.1	202.1	210.1	225.0	244.8	273.2	314.3	375.1	463.4	570.9	682.2
122.5°	210.2	214.1	222.7	237.0	258.0	285.8	323.7	379.4	459.1	556.3	658.8
125°	226.6	231.4	240.0	255.0	276.3	304.0	338.7	386.1	453.2	537.7	627.6
127.5°	240.4	246.3	255.2	271.8	293.1	319.7	351.0	393.6	450.4	521.3	600.6
130°	248.7	255.8	265.3	281.9	303.2	329.2	359.2	398.7	448.5	512.4	583.5
132.5°	255.7	263.4	274.8	291.3	312.0	337.4	366.8	402.5	447.8	504.2	567.6
135°	266.9	275.6	287.4	304.0	325.3	349.7	376.6	408.2	446.9	493.4	546.3
137.5°	277.4	286.0	298.6	315.0	334.8	358.3	383.8	412.0	445.1	484.1	526.9
140°	285.0	293.0	305.6	321.3	341.0	364.0	387.7	414.5	444.5	478.5	515.5
142.5°	292.0	300.5	311.8	327.7	346.1	368.4	391.4	416.4	443.2	473.4	504.8
145°	303.2	310.3	322.1	335.6	353.8	374.3	395.6	417.7	441.3	466.7	491.9
147.5°	314.6	321.5	331.7	344.7	360.2	379.0	398.1	417.7	438.4	460.0	481.3
150°	322.1	328.4	338.7	349.7	364.0	382.1	398.7	417.7	435.9	455.6	473.7
152.5°	329.7	336.0	345.1	354.8	368.4	384.1	400.0	415.8	432.6	450.5	466.8
155°	341.8	346.6	354.5	363.1	374.3	387.7	400.3	413.7	427.2	442.9	456.4
157.5°	352.2	356.1	363.0	370.4	379.0	389.7	401.1	411.0	422.2	434.4	445.2
160°	359.2	362.4	368.7	374.3	382.1	391.6	401.1	409.8	418.5	428.7	439.0
162.5°	365.0	367.5	372.5	377.4	384.1	392.2	400.4	407.3	414.7	423.0	431.4
165°	372.6	374.3	378.2	381.3	386.9	393.1	398.7	403.4	409.0	415.3	421.6
167.5°	379.0	379.8	382.7	385.0	388.5	393.0	397.5	399.7	403.3	407.9	413.0
170°	382.1	382.9	385.3	386.9	388.5	392.4	395.6	397.2	399.5	403.4	407.4
172.5°	385.3	385.5	387.2	388.1	389.1	392.4	395.0	395.3	396.4	399.0	402.3
175°	388.5	387.7	389.2	389.2	390.0	391.6	393.1	392.4	392.4	393.9	395.6
177.5°	390.0	389.4	390.0	390.0	390.0	390.6	391.9	390.6	390.0	390.6	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	953.1	953.1	954.3	959.0	959.6	963.6	962.3
5°	1047.4	1054.8	1057.5	1069.1	1076.1	1079.1	1073.0
7.5°	1162.9	1183.6	1193.5	1205.6	1216.3	1219.6	1211.1
10°	1247.1	1268.7	1286.9	1298.1	1308.6	1315.5	1324.4
12.5°	1328.4	1355.0	1372.3	1388.2	1398.9	1407.8	1409.2
15°	1416.8	1457.0	1487.6	1510.1	1521.3	1527.1	1524.8
17.5°	1506.0	1543.3	1565.1	1587.9	1603.5	1604.3	1604.8
20°	1556.5	1592.9	1618.0	1635.0	1652.4	1651.6	1655.5
22.5°	1590.2	1618.8	1638.1	1650.4	1656.4	1653.5	1654.3
25°	1606.0	1614.5	1611.0	1591.2	1586.3	1568.1	1571.1
27.5°	1524.6	1484.4	1442.8	1389.2	1347.0	1313.2	1314.9
30°	1414.1	1342.9	1261.7	1193.7	1132.6	1115.5	1079.1
32.5°	1259.7	1153.0	1057.8	994.4	941.9	927.7	896.0
35°	997.9	894.2	796.4	737.6	714.4	682.0	681.6
37.5°	775.7	684.4	632.7	588.5	565.4	545.7	543.8
40°	652.6	581.4	542.3	510.6	487.8	473.0	469.6
42.5°	566.5	509.0	472.3	452.7	435.2	427.6	421.9
45°	462.6	423.9	398.4	380.6	372.4	366.7	363.6
47.5°	387.0	361.0	343.7	331.8	325.2	319.1	320.7
50°	345.8	324.6	311.7	300.5	295.5	291.2	291.6
52.5°	312.7	293.6	283.3	275.2	268.9	265.9	264.4
55°	265.4	253.4	242.9	237.1	233.6	229.3	228.2
57.5°	226.3	217.0	208.5	202.0	201.2	197.0	197.5
60°	200.4	192.6	185.6	182.2	179.5	176.0	177.1
62.5°	179.0	172.5	166.1	163.3	160.6	158.0	158.5
65°	146.6	140.4	136.5	135.0	133.8	132.7	131.5
67.5°	116.8	113.0	110.6	107.2	104.9	104.5	103.3
70°	98.3	93.2	89.0	84.7	83.5	83.1	83.5
72.5°	78.8	75.5	74.4	72.3	72.1	71.1	71.8
75°	59.2	58.1	57.3	55.7	55.7	55.7	55.7
77.5°	43.6	42.9	42.5	42.1	41.8	41.2	41.2
80°	34.0	33.6	32.9	32.9	32.5	32.9	32.5
82.5°	25.7	25.7	24.8	24.8	24.4	24.2	24.4
85°	13.1	12.7	13.5	12.7	13.1	12.4	13.1
87.5°	7.8	8.0	8.0	7.8	7.7	8.5	7.7
90°	20.5	21.3	22.9	22.1	22.9	23.7	22.9
92.5°	52.7	46.6	42.5	41.1	38.7	39.5	38.1
95°	192.7	150.8	122.4	107.3	100.3	94.7	91.6
97.5°	567.5	465.6	371.2	313.0	277.4	256.1	249.3
100°	866.9	774.6	662.4	582.7	525.0	494.2	495.0
102.5°	1002.7	948.9	877.8	815.8	770.1	744.4	726.2
105°	1105.3	1120.3	1099.8	1063.5	1033.5	1008.2	1004.3
107.5°	1092.4	1161.5	1189.6	1190.3	1180.2	1171.6	1164.4
110°	1050.1	1149.5	1204.9	1226.9	1233.2	1231.6	1230.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	994.5	1106.0	1177.0	1217.5	1237.1	1243.0	1243.3
115°	905.5	1021.7	1107.7	1166.9	1201.6	1217.5	1221.4
117.5°	830.4	934.6	1022.0	1083.7	1123.5	1146.2	1151.7
120°	788.7	883.5	963.2	1025.6	1069.9	1088.7	1093.5
122.5°	755.3	843.0	917.2	972.5	1012.3	1033.2	1039.2
125°	713.8	789.5	852.7	903.2	938.0	957.7	963.2
127.5°	677.2	745.7	803.1	848.1	877.8	895.6	900.7
130°	654.5	718.5	772.1	814.1	842.4	859.0	865.4
132.5°	633.1	692.6	743.8	783.0	811.5	826.2	830.6
135°	602.4	653.7	698.7	737.4	761.1	775.3	780.8
137.5°	572.9	617.1	656.1	688.6	712.7	724.7	728.3
140°	555.8	593.7	627.6	657.7	679.7	692.5	691.7
142.5°	539.4	572.3	601.8	627.3	646.9	658.3	657.5
145°	518.0	543.2	566.1	585.8	602.4	608.7	610.3
147.5°	502.0	522.4	538.7	553.6	564.8	570.9	571.5
150°	491.9	508.5	523.4	535.3	544.0	548.8	548.8
152.5°	482.4	497.1	509.6	518.9	526.9	529.8	529.8
155°	469.0	480.8	490.3	497.4	503.7	505.3	506.0
157.5°	455.9	465.0	472.4	478.6	483.3	484.6	484.4
160°	447.7	455.6	461.1	466.7	471.3	471.3	470.6
162.5°	438.8	446.1	451.0	454.6	458.7	458.7	458.0
165°	426.4	431.9	435.9	439.0	442.1	441.3	441.3
167.5°	416.7	419.9	422.7	424.1	426.4	425.6	425.6
170°	409.8	412.9	414.5	415.3	416.9	416.1	416.1
172.5°	404.0	406.6	407.6	407.7	409.3	407.9	407.3
175°	396.4	397.9	397.9	397.9	398.7	397.9	397.2
177.5°	391.9	392.5	392.5	391.9	392.5	391.3	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0

(END OF REPORT)