

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: P332410-840

Luminaire Tested: **S123RDIW-S560D460U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332410-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S560D460U840-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 460 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4113.7 lumens  
Efficiency: N/A  
Efficacy: 136.2 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

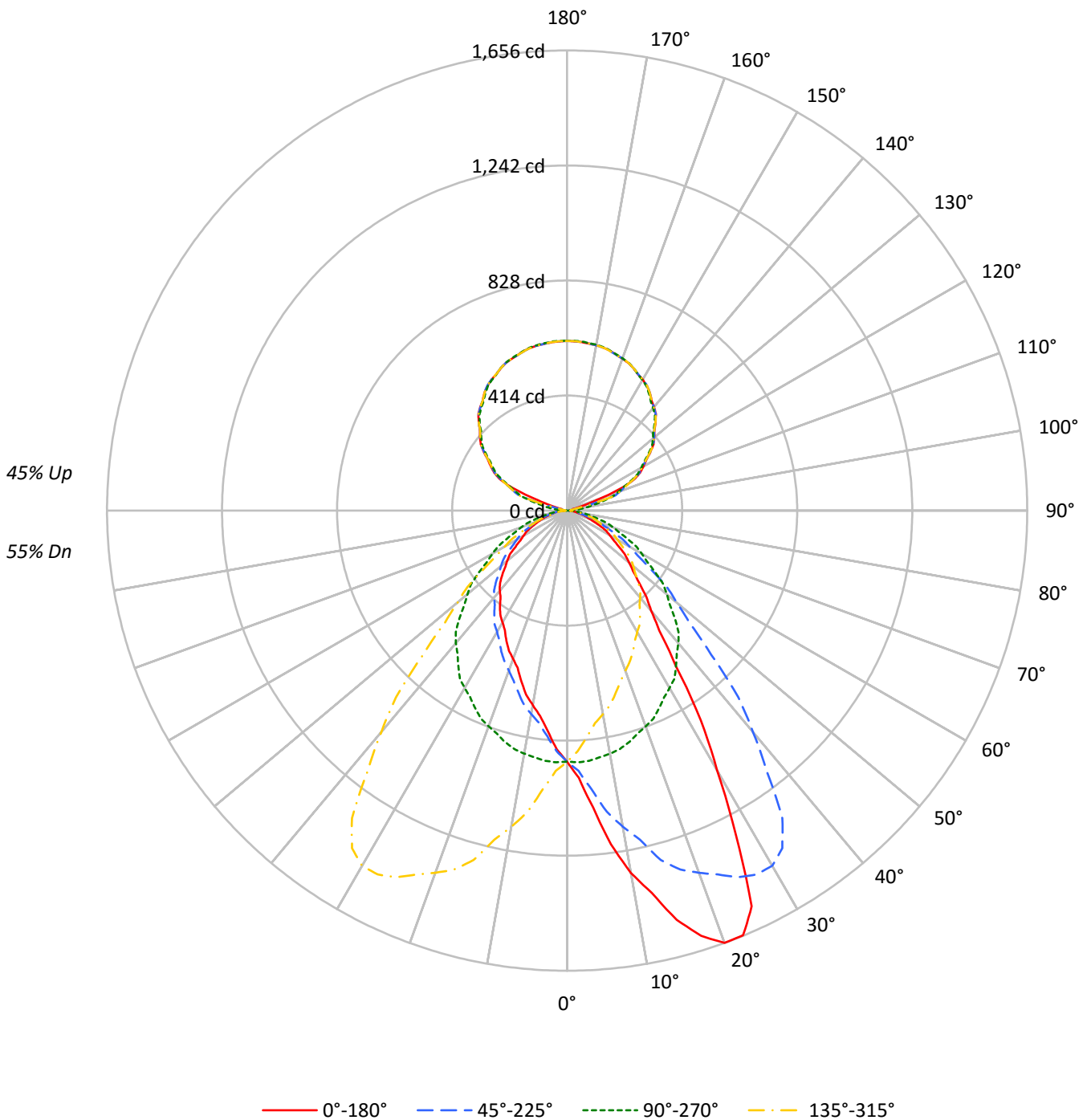
Input Watts (W): 30.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	92	88	92	89	86	83	76	74	72	65	63	62	54	53	52	47
2	91	84	78	73	84	78	73	69	68	64	61	58	55	53	49	47	45	41
3	84	74	67	62	77	70	63	58	60	56	52	52	48	45	44	41	39	35
4	77	66	59	53	71	62	55	50	54	49	45	46	43	39	39	37	34	31
5	71	59	52	46	66	56	49	43	49	43	39	42	38	34	36	33	30	27
6	65	54	46	40	61	50	43	38	44	38	34	38	34	31	33	29	27	24
7	61	49	41	35	56	46	39	34	40	34	30	35	30	27	30	27	24	22
8	56	44	37	31	52	42	35	30	37	31	27	32	28	24	28	24	22	19
9	52	40	33	28	49	38	31	27	34	28	25	30	25	22	26	22	20	18
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	24	20	18	16

**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



TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	2.2
10°-20°	277.6	6.7
20°-30°	436.1	10.6
30°-40°	455.0	11.1
40°-50°	389.4	9.5
50°-60°	296.8	7.2
60°-70°	190.2	4.6
70°-80°	91.5	2.2
80°-90°	25.9	0.6
90°-100°	22.2	0.5
100°-110°	105.8	2.6
110°-120°	254.2	6.2
120°-130°	323.7	7.9
130°-140°	345.8	8.4
140°-150°	323.4	7.9
150°-160°	260.8	6.3
160°-170°	168.4	4.1
170°-180°	58.0	1.4
0°-30°	802.6	19.5
0°-40°	1257.6	30.6
0°-60°	1943.7	47.3
0°-90°	2251.4	54.7
90°-120°	382.2	9.3
90°-150°	1375.1	33.4
90°-180°	1862.0	45.3
0°-180°	4113.7	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	15
90°	14	0	14	0	14	7
95°	17	28	17	28	17	14
105°	20	135	20	135	20	46
115°	267	254	267	254	267	247
125°	365	358	365	358	365	326
135°	450	445	450	445	450	347
145°	519	514	519	514	519	324
155°	565	566	565	566	565	260
165°	595	597	595	597	595	168
175°	608	611	608	611	608	58
180°	611	611	611	611	611	



TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**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°	5.9	6.4	5.8	6.0	6.0	6.3	6.2	6.1	6.6	6.2	6.3
90°	13.6	13.4	13.2	13.0	12.8	12.5	12.1	11.7	11.3	10.9	9.6
92.5°	15.0	14.9	14.8	14.7	14.5	14.2	13.5	12.9	12.2	11.6	10.6
95°	17.3	17.3	17.3	17.3	17.3	16.9	16.2	15.5	14.7	14.0	12.9
97.5°	18.7	18.6	18.5	18.4	18.3	17.9	17.1	16.3	15.5	14.6	21.9
100°	19.1	19.0	18.9	18.8	18.7	18.2	17.4	16.6	15.8	14.9	30.7
102.5°	19.4	19.2	19.1	18.9	18.7	19.9	22.3	24.8	27.4	29.9	47.1
105°	20.0	19.8	19.6	19.4	19.2	28.0	45.8	63.6	81.5	99.4	108.5
107.5°	62.7	76.1	89.6	103.0	116.5	129.8	142.9	155.9	169.1	182.1	180.7
110°	124.8	139.2	153.6	168.0	182.5	191.3	194.6	197.9	201.3	204.6	203.5



TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	214.1	217.1	220.2	223.2	226.2	227.7	227.6	227.6	227.5	227.5	226.4
115°	266.8	266.4	266.0	265.6	265.2	264.5	263.5	262.5	261.5	260.4	259.5
117.5°	296.4	296.3	296.2	296.1	296.0	295.6	294.8	294.0	293.2	292.4	292.0
120°	316.7	316.7	316.7	316.7	316.7	316.3	315.5	314.7	313.9	313.1	312.8
122.5°	336.7	336.6	336.5	336.4	336.3	336.0	335.5	334.9	334.3	333.8	333.4
125°	364.8	364.6	364.4	364.2	364.0	363.8	363.6	363.3	363.1	362.9	362.5
127.5°	391.8	392.0	392.2	392.4	392.6	392.5	392.2	391.9	391.6	391.3	390.8
130°	409.2	409.4	409.6	409.8	410.0	409.9	409.5	409.1	408.7	408.3	408.0
132.5°	425.3	425.5	425.8	426.1	426.4	426.3	425.9	425.5	425.1	424.6	424.3
135°	449.6	449.9	450.2	450.5	450.8	450.8	450.5	450.2	449.9	449.6	449.2
137.5°	472.6	472.8	473.0	473.2	473.4	473.2	472.7	472.3	471.8	471.3	471.1
140°	486.4	486.6	486.8	487.0	487.2	487.1	486.7	486.3	485.8	485.4	485.1
142.5°	499.1	499.4	499.7	499.9	500.2	500.2	499.9	499.6	499.2	498.9	498.6
145°	518.6	518.6	518.6	518.6	518.6	518.5	518.3	518.1	517.9	517.7	517.5
147.5°	533.1	533.6	534.0	534.5	534.9	535.1	534.9	534.7	534.5	534.3	534.1
150°	544.0	544.3	544.6	544.9	545.2	545.2	545.0	544.8	544.6	544.4	544.2
152.5°	552.7	553.2	553.6	554.1	554.5	554.6	554.2	553.9	553.5	553.2	553.0
155°	564.9	565.4	566.0	566.6	567.2	567.3	566.8	566.3	565.8	565.3	565.2
157.5°	575.1	575.9	576.7	577.4	578.2	578.3	577.7	577.1	576.5	575.9	576.0
160°	581.7	582.4	583.1	583.8	584.5	584.5	583.9	583.3	582.7	582.1	582.2
162.5°	587.8	588.4	589.1	589.7	590.4	590.3	589.7	589.0	588.2	587.5	587.6
165°	595.3	596.0	596.7	597.3	598.0	598.0	597.2	596.4	595.6	594.8	594.9
167.5°	600.7	601.5	602.3	603.0	603.8	603.8	603.0	602.3	601.5	600.7	600.7
170°	603.9	604.7	605.5	606.3	607.1	607.1	606.3	605.5	604.7	603.9	603.9
172.5°	605.7	606.6	607.4	608.3	609.3	609.3	608.4	607.6	606.8	606.0	606.0
175°	608.4	609.3	610.1	610.9	611.7	611.7	611.0	610.3	609.6	608.8	608.7
177.5°	609.3	610.1	610.9	611.7	612.5	612.6	611.9	611.3	610.6	610.0	609.9
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7



TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**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°	6.6	6.1	6.4	6.2	6.9	7.0	8.7	10.0	10.5	9.5	9.7
90°	8.3	7.0	5.7	4.4	3.4	2.4	1.4	0.4	1.4	2.4	3.4
92.5°	9.6	8.7	7.7	7.3	7.6	7.9	8.2	8.5	8.2	7.9	7.6
95°	11.8	10.7	9.6	11.1	15.2	19.4	23.5	27.7	23.5	19.4	15.2
97.5°	29.1	36.4	43.6	48.2	50.1	51.9	53.7	55.6	53.7	51.9	50.1
100°	46.5	62.2	77.9	84.7	82.7	80.7	78.7	76.6	78.7	80.7	82.7
102.5°	64.2	81.4	98.6	106.4	105.0	103.5	102.1	100.6	102.1	103.5	105.0
105°	117.5	126.5	135.6	139.7	138.6	137.4	136.3	135.2	136.3	137.4	138.6
107.5°	179.3	177.8	176.4	175.2	174.3	173.5	172.6	171.7	172.6	173.5	174.3
110°	202.4	201.3	200.2	199.2	198.4	197.6	196.8	196.0	196.8	197.6	198.4





TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	225.3	224.2	223.1	222.2	221.4	220.7	219.9	219.2	219.9	220.7	221.4
115°	258.6	257.7	256.8	256.0	255.4	254.8	254.2	253.6	254.2	254.8	255.4
117.5°	291.4	290.9	290.5	289.9	289.1	288.4	287.7	286.9	287.7	288.4	289.1
120°	312.5	312.1	311.8	311.2	310.3	309.4	308.5	307.6	308.5	309.4	310.3
122.5°	333.0	332.6	332.2	331.6	330.9	330.1	329.4	328.7	329.4	330.1	330.9
125°	362.1	361.7	361.3	360.7	359.9	359.1	358.3	357.5	358.3	359.1	359.9
127.5°	390.3	389.8	389.3	388.7	387.9	387.1	386.3	385.5	386.3	387.1	387.9
130°	407.6	407.2	406.8	406.2	405.4	404.6	403.7	402.9	403.7	404.6	405.4
132.5°	424.0	423.7	423.3	422.8	422.0	421.2	420.4	419.6	420.4	421.2	422.0
135°	448.8	448.4	448.0	447.5	446.9	446.3	445.7	445.0	445.7	446.3	446.9
137.5°	470.9	470.7	470.4	469.9	469.2	468.4	467.7	466.9	467.7	468.4	469.2
140°	484.8	484.5	484.2	483.8	483.2	482.6	482.0	481.4	482.0	482.6	483.2
142.5°	498.3	498.0	497.7	497.3	496.7	496.0	495.4	494.8	495.4	496.0	496.7
145°	517.3	517.1	516.8	516.4	515.7	515.0	514.3	513.6	514.3	515.0	515.7
147.5°	533.9	533.7	533.5	533.1	532.7	532.2	531.8	531.3	531.8	532.2	532.7
150°	544.0	543.8	543.6	543.4	543.1	542.8	542.5	542.2	542.5	542.8	543.1
152.5°	552.9	552.8	552.7	552.6	552.4	552.3	552.1	552.0	552.1	552.3	552.4
155°	565.1	565.0	564.9	565.0	565.2	565.3	565.5	565.7	565.5	565.3	565.2
157.5°	576.1	576.2	576.3	576.4	576.4	576.4	576.4	576.5	576.4	576.4	576.4
160°	582.3	582.4	582.5	582.6	582.7	582.8	582.9	583.0	582.9	582.8	582.7
162.5°	587.7	587.8	587.9	588.1	588.4	588.7	589.0	589.2	589.0	588.7	588.4
165°	595.0	595.1	595.2	595.4	595.7	596.0	596.3	596.6	596.3	596.0	595.7
167.5°	600.7	600.7	600.7	600.9	601.3	601.7	602.1	602.5	602.1	601.7	601.3
170°	603.9	603.9	603.9	604.1	604.5	604.9	605.3	605.7	605.3	604.9	604.5
172.5°	605.9	605.8	605.7	605.9	606.4	606.9	607.4	607.8	607.4	606.9	606.4
175°	608.6	608.5	608.4	608.6	609.2	609.7	610.2	610.7	610.2	609.7	609.2
177.5°	609.8	609.8	609.7	609.8	610.2	610.6	611.0	611.4	611.0	610.6	610.2
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7



TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**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°	9.6	10.7	11.3	11.8	12.4	12.4	12.8	12.8	13.2	13.3	13.4
90°	4.4	5.7	7.0	8.3	9.6	10.9	11.3	11.7	12.1	12.5	12.8
92.5°	7.3	7.7	8.7	9.6	10.6	11.6	12.2	12.9	13.5	14.2	14.5
95°	11.1	9.6	10.7	11.8	12.9	14.0	14.7	15.5	16.2	16.9	17.3
97.5°	48.2	43.6	36.4	29.1	21.9	14.6	15.5	16.3	17.1	17.9	18.3
100°	84.7	77.9	62.2	46.5	30.7	14.9	15.8	16.6	17.4	18.2	18.7
102.5°	106.4	98.6	81.4	64.2	47.1	29.9	27.4	24.8	22.3	19.9	18.7
105°	139.7	135.6	126.5	117.5	108.5	99.4	81.5	63.6	45.8	28.0	19.2
107.5°	175.2	176.4	177.8	179.3	180.7	182.1	169.1	155.9	142.9	129.8	116.5
110°	199.2	200.2	201.3	202.4	203.5	204.6	201.3	197.9	194.6	191.3	182.5



TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	222.2	223.1	224.2	225.3	226.4	227.5	227.5	227.6	227.6	227.7	226.2
115°	256.0	256.8	257.7	258.6	259.5	260.4	261.5	262.5	263.5	264.5	265.2
117.5°	289.9	290.5	290.9	291.4	292.0	292.4	293.2	294.0	294.8	295.6	296.0
120°	311.2	311.8	312.1	312.5	312.8	313.1	313.9	314.7	315.5	316.3	316.7
122.5°	331.6	332.2	332.6	333.0	333.4	333.8	334.3	334.9	335.5	336.0	336.3
125°	360.7	361.3	361.7	362.1	362.5	362.9	363.1	363.3	363.6	363.8	364.0
127.5°	388.7	389.3	389.8	390.3	390.8	391.3	391.6	391.9	392.2	392.5	392.6
130°	406.2	406.8	407.2	407.6	408.0	408.3	408.7	409.1	409.5	409.9	410.0
132.5°	422.8	423.3	423.7	424.0	424.3	424.6	425.1	425.5	425.9	426.3	426.4
135°	447.5	448.0	448.4	448.8	449.2	449.6	449.9	450.2	450.5	450.8	450.8
137.5°	469.9	470.4	470.7	470.9	471.1	471.3	471.8	472.3	472.7	473.2	473.4
140°	483.8	484.2	484.5	484.8	485.1	485.4	485.8	486.3	486.7	487.1	487.2
142.5°	497.3	497.7	498.0	498.3	498.6	498.9	499.2	499.6	499.9	500.2	500.2
145°	516.4	516.8	517.1	517.3	517.5	517.7	517.9	518.1	518.3	518.5	518.6
147.5°	533.1	533.5	533.7	533.9	534.1	534.3	534.5	534.7	534.9	535.1	534.9
150°	543.4	543.6	543.8	544.0	544.2	544.4	544.6	544.8	545.0	545.2	545.2
152.5°	552.6	552.7	552.8	552.9	553.0	553.2	553.5	553.9	554.2	554.6	554.5
155°	565.0	564.9	565.0	565.1	565.2	565.3	565.8	566.3	566.8	567.3	567.2
157.5°	576.4	576.3	576.2	576.1	576.0	575.9	576.5	577.1	577.7	578.3	578.2
160°	582.6	582.5	582.4	582.3	582.2	582.1	582.7	583.3	583.9	584.5	584.5
162.5°	588.1	587.9	587.8	587.7	587.6	587.5	588.2	589.0	589.7	590.3	590.4
165°	595.4	595.2	595.1	595.0	594.9	594.8	595.6	596.4	597.2	598.0	598.0
167.5°	600.9	600.7	600.7	600.7	600.7	600.7	601.5	602.3	603.0	603.8	603.8
170°	604.1	603.9	603.9	603.9	603.9	603.9	604.7	605.5	606.3	607.1	607.1
172.5°	605.9	605.7	605.8	605.9	606.0	606.0	606.8	607.6	608.4	609.3	609.3
175°	608.6	608.4	608.5	608.6	608.7	608.8	609.6	610.3	611.0	611.7	611.7
177.5°	609.8	609.7	609.8	609.8	609.9	610.0	610.6	611.3	611.9	612.6	612.5
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7



TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**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°	14.0	13.4	13.5	13.8	13.5	13.4	14.0	13.4	13.3	13.2	12.8
90°	13.0	13.2	13.4	13.6	13.4	13.2	13.0	12.8	12.5	12.1	11.7
92.5°	14.7	14.8	14.9	15.0	14.9	14.8	14.7	14.5	14.2	13.5	12.9
95°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	16.9	16.2	15.5
97.5°	18.4	18.5	18.6	18.7	18.6	18.5	18.4	18.3	17.9	17.1	16.3
100°	18.8	18.9	19.0	19.1	19.0	18.9	18.8	18.7	18.2	17.4	16.6
102.5°	18.9	19.1	19.2	19.4	19.2	19.1	18.9	18.7	19.9	22.3	24.8
105°	19.4	19.6	19.8	20.0	19.8	19.6	19.4	19.2	28.0	45.8	63.6
107.5°	103.0	89.6	76.1	62.7	76.1	89.6	103.0	116.5	129.8	142.9	155.9
110°	168.0	153.6	139.2	124.8	139.2	153.6	168.0	182.5	191.3	194.6	197.9



TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	223.2	220.2	217.1	214.1	217.1	220.2	223.2	226.2	227.7	227.6	227.6
115°	265.6	266.0	266.4	266.8	266.4	266.0	265.6	265.2	264.5	263.5	262.5
117.5°	296.1	296.2	296.3	296.4	296.3	296.2	296.1	296.0	295.6	294.8	294.0
120°	316.7	316.7	316.7	316.7	316.7	316.7	316.7	316.7	316.3	315.5	314.7
122.5°	336.4	336.5	336.6	336.7	336.6	336.5	336.4	336.3	336.0	335.5	334.9
125°	364.2	364.4	364.6	364.8	364.6	364.4	364.2	364.0	363.8	363.6	363.3
127.5°	392.4	392.2	392.0	391.8	392.0	392.2	392.4	392.6	392.5	392.2	391.9
130°	409.8	409.6	409.4	409.2	409.4	409.6	409.8	410.0	409.9	409.5	409.1
132.5°	426.1	425.8	425.5	425.3	425.5	425.8	426.1	426.4	426.3	425.9	425.5
135°	450.5	450.2	449.9	449.6	449.9	450.2	450.5	450.8	450.8	450.5	450.2
137.5°	473.2	473.0	472.8	472.6	472.8	473.0	473.2	473.4	473.2	472.7	472.3
140°	487.0	486.8	486.6	486.4	486.6	486.8	487.0	487.2	487.1	486.7	486.3
142.5°	499.9	499.7	499.4	499.1	499.4	499.7	499.9	500.2	500.2	499.9	499.6
145°	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.5	518.3	518.1
147.5°	534.5	534.0	533.6	533.1	533.6	534.0	534.5	534.9	535.1	534.9	534.7
150°	544.9	544.6	544.3	544.0	544.3	544.6	544.9	545.2	545.2	545.0	544.8
152.5°	554.1	553.6	553.2	552.7	553.2	553.6	554.1	554.5	554.6	554.2	553.9
155°	566.6	566.0	565.4	564.9	565.4	566.0	566.6	567.2	567.3	566.8	566.3
157.5°	577.4	576.7	575.9	575.1	575.9	576.7	577.4	578.2	578.3	577.7	577.1
160°	583.8	583.1	582.4	581.7	582.4	583.1	583.8	584.5	584.5	583.9	583.3
162.5°	589.7	589.1	588.4	587.8	588.4	589.1	589.7	590.4	590.3	589.7	589.0
165°	597.3	596.7	596.0	595.3	596.0	596.7	597.3	598.0	598.0	597.2	596.4
167.5°	603.0	602.3	601.5	600.7	601.5	602.3	603.0	603.8	603.8	603.0	602.3
170°	606.3	605.5	604.7	603.9	604.7	605.5	606.3	607.1	607.1	606.3	605.5
172.5°	608.3	607.4	606.6	605.7	606.6	607.4	608.3	609.3	609.3	608.4	607.6
175°	610.9	610.1	609.3	608.4	609.3	610.1	610.9	611.7	611.7	611.0	610.3
177.5°	611.7	610.9	610.1	609.3	610.1	610.9	611.7	612.5	612.6	611.9	611.3
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7



TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**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°	12.8	12.4	12.4	11.8	11.3	10.7	9.6	9.7	9.5	10.5	10.0
90°	11.3	10.9	9.6	8.3	7.0	5.7	4.4	3.4	2.4	1.4	0.4
92.5°	12.2	11.6	10.6	9.6	8.7	7.7	7.3	7.6	7.9	8.2	8.5
95°	14.7	14.0	12.9	11.8	10.7	9.6	11.1	15.2	19.4	23.5	27.7
97.5°	15.5	14.6	21.9	29.1	36.4	43.6	48.2	50.1	51.9	53.7	55.6
100°	15.8	14.9	30.7	46.5	62.2	77.9	84.7	82.7	80.7	78.7	76.6
102.5°	27.4	29.9	47.1	64.2	81.4	98.6	106.4	105.0	103.5	102.1	100.6
105°	81.5	99.4	108.5	117.5	126.5	135.6	139.7	138.6	137.4	136.3	135.2
107.5°	169.1	182.1	180.7	179.3	177.8	176.4	175.2	174.3	173.5	172.6	171.7
110°	201.3	204.6	203.5	202.4	201.3	200.2	199.2	198.4	197.6	196.8	196.0



TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	227.5	227.5	226.4	225.3	224.2	223.1	222.2	221.4	220.7	219.9	219.2
115°	261.5	260.4	259.5	258.6	257.7	256.8	256.0	255.4	254.8	254.2	253.6
117.5°	293.2	292.4	292.0	291.4	290.9	290.5	289.9	289.1	288.4	287.7	286.9
120°	313.9	313.1	312.8	312.5	312.1	311.8	311.2	310.3	309.4	308.5	307.6
122.5°	334.3	333.8	333.4	333.0	332.6	332.2	331.6	330.9	330.1	329.4	328.7
125°	363.1	362.9	362.5	362.1	361.7	361.3	360.7	359.9	359.1	358.3	357.5
127.5°	391.6	391.3	390.8	390.3	389.8	389.3	388.7	387.9	387.1	386.3	385.5
130°	408.7	408.3	408.0	407.6	407.2	406.8	406.2	405.4	404.6	403.7	402.9
132.5°	425.1	424.6	424.3	424.0	423.7	423.3	422.8	422.0	421.2	420.4	419.6
135°	449.9	449.6	449.2	448.8	448.4	448.0	447.5	446.9	446.3	445.7	445.0
137.5°	471.8	471.3	471.1	470.9	470.7	470.4	469.9	469.2	468.4	467.7	466.9
140°	485.8	485.4	485.1	484.8	484.5	484.2	483.8	483.2	482.6	482.0	481.4
142.5°	499.2	498.9	498.6	498.3	498.0	497.7	497.3	496.7	496.0	495.4	494.8
145°	517.9	517.7	517.5	517.3	517.1	516.8	516.4	515.7	515.0	514.3	513.6
147.5°	534.5	534.3	534.1	533.9	533.7	533.5	533.1	532.7	532.2	531.8	531.3
150°	544.6	544.4	544.2	544.0	543.8	543.6	543.4	543.1	542.8	542.5	542.2
152.5°	553.5	553.2	553.0	552.9	552.8	552.7	552.6	552.4	552.3	552.1	552.0
155°	565.8	565.3	565.2	565.1	565.0	564.9	565.0	565.2	565.3	565.5	565.7
157.5°	576.5	575.9	576.0	576.1	576.2	576.3	576.4	576.4	576.4	576.4	576.5
160°	582.7	582.1	582.2	582.3	582.4	582.5	582.6	582.7	582.8	582.9	583.0
162.5°	588.2	587.5	587.6	587.7	587.8	587.9	588.1	588.4	588.7	589.0	589.2
165°	595.6	594.8	594.9	595.0	595.1	595.2	595.4	595.7	596.0	596.3	596.6
167.5°	601.5	600.7	600.7	600.7	600.7	600.7	600.9	601.3	601.7	602.1	602.5
170°	604.7	603.9	603.9	603.9	603.9	603.9	604.1	604.5	604.9	605.3	605.7
172.5°	606.8	606.0	606.0	605.9	605.8	605.7	605.9	606.4	606.9	607.4	607.8
175°	609.6	608.8	608.7	608.6	608.5	608.4	608.6	609.2	609.7	610.2	610.7
177.5°	610.6	610.0	609.9	609.8	609.8	609.7	609.8	610.2	610.6	611.0	611.4
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7



TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**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°	8.7	7.0	6.9	6.2	6.4	6.1	6.6	6.3	6.2	6.6	6.1
90°	1.4	2.4	3.4	4.4	5.7	7.0	8.3	9.6	10.9	11.3	11.7
92.5°	8.2	7.9	7.6	7.3	7.7	8.7	9.6	10.6	11.6	12.2	12.9
95°	23.5	19.4	15.2	11.1	9.6	10.7	11.8	12.9	14.0	14.7	15.5
97.5°	53.7	51.9	50.1	48.2	43.6	36.4	29.1	21.9	14.6	15.5	16.3
100°	78.7	80.7	82.7	84.7	77.9	62.2	46.5	30.7	14.9	15.8	16.6
102.5°	102.1	103.5	105.0	106.4	98.6	81.4	64.2	47.1	29.9	27.4	24.8
105°	136.3	137.4	138.6	139.7	135.6	126.5	117.5	108.5	99.4	81.5	63.6
107.5°	172.6	173.5	174.3	175.2	176.4	177.8	179.3	180.7	182.1	169.1	155.9
110°	196.8	197.6	198.4	199.2	200.2	201.3	202.4	203.5	204.6	201.3	197.9





TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	219.9	220.7	221.4	222.2	223.1	224.2	225.3	226.4	227.5	227.5	227.6
115°	254.2	254.8	255.4	256.0	256.8	257.7	258.6	259.5	260.4	261.5	262.5
117.5°	287.7	288.4	289.1	289.9	290.5	290.9	291.4	292.0	292.4	293.2	294.0
120°	308.5	309.4	310.3	311.2	311.8	312.1	312.5	312.8	313.1	313.9	314.7
122.5°	329.4	330.1	330.9	331.6	332.2	332.6	333.0	333.4	333.8	334.3	334.9
125°	358.3	359.1	359.9	360.7	361.3	361.7	362.1	362.5	362.9	363.1	363.3
127.5°	386.3	387.1	387.9	388.7	389.3	389.8	390.3	390.8	391.3	391.6	391.9
130°	403.7	404.6	405.4	406.2	406.8	407.2	407.6	408.0	408.3	408.7	409.1
132.5°	420.4	421.2	422.0	422.8	423.3	423.7	424.0	424.3	424.6	425.1	425.5
135°	445.7	446.3	446.9	447.5	448.0	448.4	448.8	449.2	449.6	449.9	450.2
137.5°	467.7	468.4	469.2	469.9	470.4	470.7	470.9	471.1	471.3	471.8	472.3
140°	482.0	482.6	483.2	483.8	484.2	484.5	484.8	485.1	485.4	485.8	486.3
142.5°	495.4	496.0	496.7	497.3	497.7	498.0	498.3	498.6	498.9	499.2	499.6
145°	514.3	515.0	515.7	516.4	516.8	517.1	517.3	517.5	517.7	517.9	518.1
147.5°	531.8	532.2	532.7	533.1	533.5	533.7	533.9	534.1	534.3	534.5	534.7
150°	542.5	542.8	543.1	543.4	543.6	543.8	544.0	544.2	544.4	544.6	544.8
152.5°	552.1	552.3	552.4	552.6	552.7	552.8	552.9	553.0	553.2	553.5	553.9
155°	565.5	565.3	565.2	565.0	564.9	565.0	565.1	565.2	565.3	565.8	566.3
157.5°	576.4	576.4	576.4	576.4	576.3	576.2	576.1	576.0	575.9	576.5	577.1
160°	582.9	582.8	582.7	582.6	582.5	582.4	582.3	582.2	582.1	582.7	583.3
162.5°	589.0	588.7	588.4	588.1	587.9	587.8	587.7	587.6	587.5	588.2	589.0
165°	596.3	596.0	595.7	595.4	595.2	595.1	595.0	594.9	594.8	595.6	596.4
167.5°	602.1	601.7	601.3	600.9	600.7	600.7	600.7	600.7	600.7	601.5	602.3
170°	605.3	604.9	604.5	604.1	603.9	603.9	603.9	603.9	603.9	604.7	605.5
172.5°	607.4	606.9	606.4	605.9	605.7	605.8	605.9	606.0	606.0	606.8	607.6
175°	610.2	609.7	609.2	608.6	608.4	608.5	608.6	608.7	608.8	609.6	610.3
177.5°	611.0	610.6	610.2	609.8	609.7	609.8	609.8	609.9	610.0	610.6	611.3
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7



TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**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°	6.2	6.3	6.0	6.0	5.8	6.4	5.9
90°	12.1	12.5	12.8	13.0	13.2	13.4	13.6
92.5°	13.5	14.2	14.5	14.7	14.8	14.9	15.0
95°	16.2	16.9	17.3	17.3	17.3	17.3	17.3
97.5°	17.1	17.9	18.3	18.4	18.5	18.6	18.7
100°	17.4	18.2	18.7	18.8	18.9	19.0	19.1
102.5°	22.3	19.9	18.7	18.9	19.1	19.2	19.4
105°	45.8	28.0	19.2	19.4	19.6	19.8	20.0
107.5°	142.9	129.8	116.5	103.0	89.6	76.1	62.7
110°	194.6	191.3	182.5	168.0	153.6	139.2	124.8



TEST NUMBER: P332410-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	227.6	227.7	226.2	223.2	220.2	217.1	214.1
115°	263.5	264.5	265.2	265.6	266.0	266.4	266.8
117.5°	294.8	295.6	296.0	296.1	296.2	296.3	296.4
120°	315.5	316.3	316.7	316.7	316.7	316.7	316.7
122.5°	335.5	336.0	336.3	336.4	336.5	336.6	336.7
125°	363.6	363.8	364.0	364.2	364.4	364.6	364.8
127.5°	392.2	392.5	392.6	392.4	392.2	392.0	391.8
130°	409.5	409.9	410.0	409.8	409.6	409.4	409.2
132.5°	425.9	426.3	426.4	426.1	425.8	425.5	425.3
135°	450.5	450.8	450.8	450.5	450.2	449.9	449.6
137.5°	472.7	473.2	473.4	473.2	473.0	472.8	472.6
140°	486.7	487.1	487.2	487.0	486.8	486.6	486.4
142.5°	499.9	500.2	500.2	499.9	499.7	499.4	499.1
145°	518.3	518.5	518.6	518.6	518.6	518.6	518.6
147.5°	534.9	535.1	534.9	534.5	534.0	533.6	533.1
150°	545.0	545.2	545.2	544.9	544.6	544.3	544.0
152.5°	554.2	554.6	554.5	554.1	553.6	553.2	552.7
155°	566.8	567.3	567.2	566.6	566.0	565.4	564.9
157.5°	577.7	578.3	578.2	577.4	576.7	575.9	575.1
160°	583.9	584.5	584.5	583.8	583.1	582.4	581.7
162.5°	589.7	590.3	590.4	589.7	589.1	588.4	587.8
165°	597.2	598.0	598.0	597.3	596.7	596.0	595.3
167.5°	603.0	603.8	603.8	603.0	602.3	601.5	600.7
170°	606.3	607.1	607.1	606.3	605.5	604.7	603.9
172.5°	608.4	609.3	609.3	608.3	607.4	606.6	605.7
175°	611.0	611.7	611.7	610.9	610.1	609.3	608.4
177.5°	611.9	612.6	612.5	611.7	610.9	610.1	609.3
180°	610.7	610.7	610.7	610.7	610.7	610.7	610.7

(END OF REPORT)