

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: P332411-840

Luminaire Tested: **S123RDIW-S560D460U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332411-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
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-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

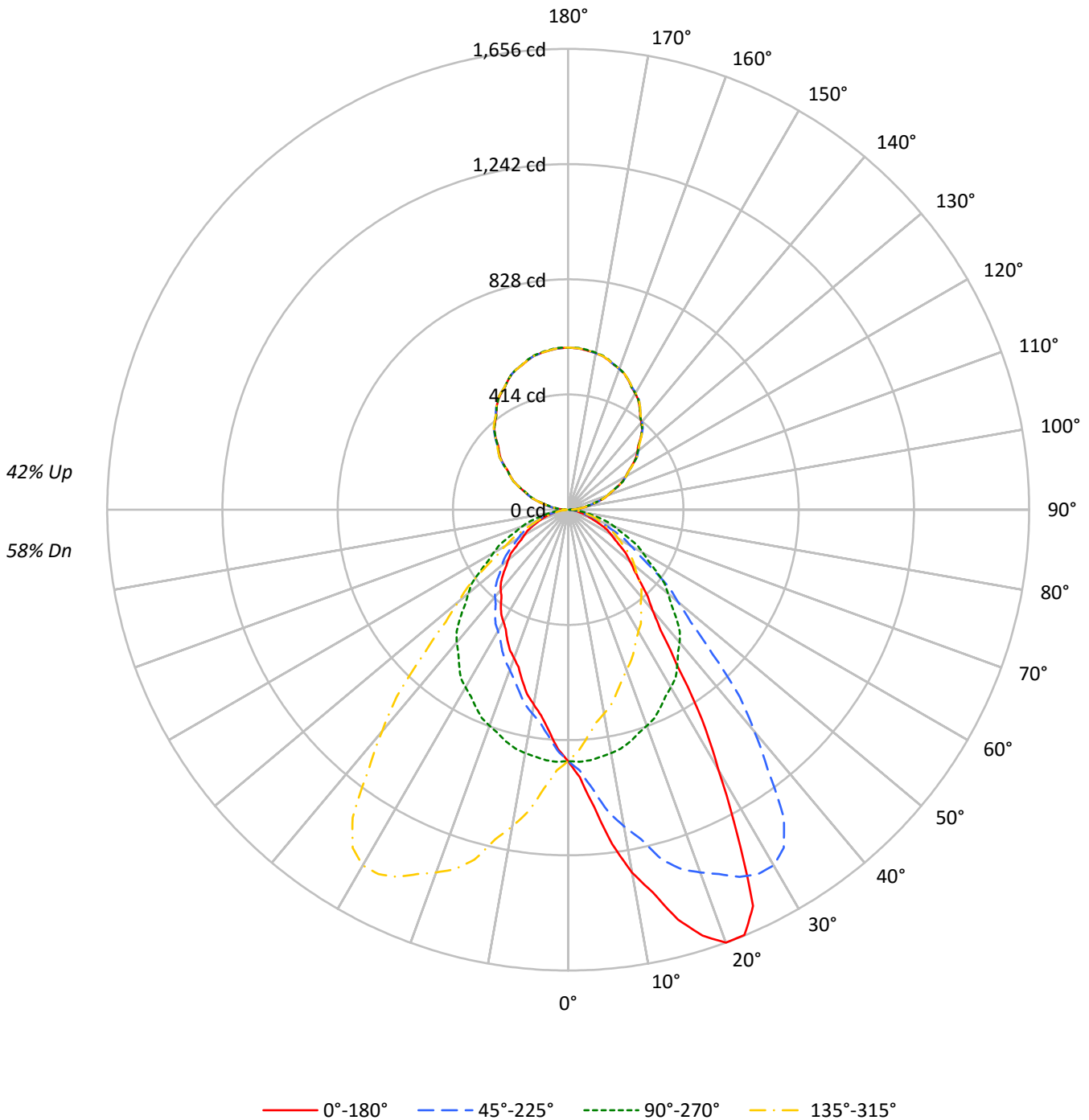
Lumens per Lamp: N/A  
Luminaire Lumens: 3865.6 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 30.2  
Input Voltage (V): 120  
Input Current (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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	100	96	93	89	93	90	87	84	78	76	74	67	66	64	57	56	55	50
2	92	85	79	74	86	79	74	70	69	65	62	60	57	55	51	49	47	43
3	84	75	68	62	78	70	64	59	62	57	53	54	50	47	46	43	41	37
4	77	67	59	53	72	63	56	51	55	50	46	48	44	41	42	39	36	33
5	71	60	52	46	66	57	49	44	50	44	40	44	39	36	38	34	32	29
6	66	54	46	41	61	51	44	39	45	39	35	40	35	32	35	31	28	26
7	61	49	41	36	57	46	39	34	41	35	31	36	32	28	32	28	25	23
8	57	45	37	32	53	42	35	31	38	32	28	33	29	25	29	26	23	21
9	53	41	34	29	50	39	32	28	35	29	25	31	26	23	27	23	21	19
10	50	38	31	26	46	36	29	25	32	27	23	28	24	21	25	22	19	17

**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	2.3
10°-20°	277.6	7.2
20°-30°	436.1	11.3
30°-40°	455.0	11.8
40°-50°	389.4	10.1
50°-60°	296.8	7.7
60°-70°	190.2	4.9
70°-80°	91.5	2.4
80°-90°	25.9	0.7
90°-100°	37.9	1.0
100°-110°	113.6	2.9
110°-120°	193.2	5.0
120°-130°	254.1	6.6
130°-140°	285.6	7.4
140°-150°	280.8	7.3
150°-160°	236.4	6.1
160°-170°	157.3	4.1
170°-180°	55.1	1.4
0°-30°	802.6	20.8
0°-40°	1257.6	32.5
0°-60°	1943.7	50.3
0°-90°	2251.4	58.2
90°-120°	344.8	8.9
90°-150°	1165.3	30.1
90°-180°	1614.0	41.8
0°-180°	3865.6	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°	36	27	36	27	36	37
105°	109	103	109	103	109	116
115°	195	194	195	194	195	193
125°	281	285	281	285	281	252
135°	369	369	369	369	369	284
145°	448	448	448	448	448	280
155°	512	513	512	513	512	236
165°	557	559	557	559	557	157
175°	579	581	579	581	579	55
180°	583	583	583	583	583	



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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°	5.9	6.5	5.8	6.1	6.0	6.3	6.2	6.1	6.6	6.3	6.3
90°	13.7	13.5	13.3	13.1	12.9	12.6	12.2	11.8	11.4	11.0	9.7
92.5°	18.5	18.6	18.7	18.9	19.0	18.9	18.6	18.2	17.9	17.6	16.9
95°	35.6	35.6	35.6	35.6	35.6	35.4	35.0	34.6	34.2	33.8	33.0
97.5°	54.9	54.9	55.0	55.0	55.0	54.8	54.4	53.9	53.4	53.0	52.4
100°	69.6	69.4	69.2	69.0	68.8	68.5	68.2	67.9	67.6	67.3	66.8
102.5°	84.5	84.6	84.6	84.7	84.7	84.6	84.3	84.0	83.7	83.4	82.7
105°	109.0	108.8	108.6	108.4	108.1	108.0	108.0	108.0	108.0	108.0	107.0
107.5°	134.3	134.4	134.5	134.6	134.7	134.6	134.3	134.0	133.7	133.4	133.0
110°	151.5	151.7	151.9	152.1	152.3	152.2	151.8	151.4	151.0	150.6	150.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	169.8	169.9	169.9	169.9	170.0	169.8	169.3	168.7	168.2	167.7	167.7
115°	195.0	195.1	195.2	195.3	195.4	195.4	195.3	195.2	195.1	195.0	195.2
117.5°	220.5	220.8	221.1	221.4	221.7	221.8	221.8	221.9	221.9	221.9	222.2
120°	238.4	238.6	238.8	239.0	239.2	239.4	239.5	239.6	239.7	239.8	240.3
122.5°	255.6	255.9	256.2	256.5	256.8	257.0	257.3	257.6	257.8	258.1	258.4
125°	281.4	281.9	282.3	282.7	283.1	283.5	283.9	284.3	284.7	285.1	285.3
127.5°	307.2	307.6	308.1	308.6	309.0	309.5	310.1	310.7	311.2	311.8	312.0
130°	324.0	324.8	325.5	326.2	326.9	327.4	327.8	328.2	328.6	329.0	329.3
132.5°	341.5	342.1	342.6	343.3	343.8	344.3	344.8	345.3	345.8	346.3	346.5
135°	368.9	369.1	369.3	369.5	369.7	370.0	370.4	370.8	371.2	371.6	371.7
137.5°	392.9	393.3	393.7	394.0	394.5	394.9	395.4	395.8	396.2	396.6	396.4
140°	408.7	409.4	410.1	410.8	411.5	411.9	412.0	412.1	412.2	412.3	412.2
142.5°	424.7	425.4	425.9	426.5	427.0	427.3	427.4	427.5	427.6	427.7	427.6
145°	448.1	448.5	448.9	449.3	449.7	449.9	450.0	450.1	450.2	450.3	450.0
147.5°	468.7	469.3	469.9	470.6	471.2	471.5	471.5	471.5	471.5	471.5	471.2
150°	481.9	482.5	483.1	483.7	484.3	484.6	484.6	484.6	484.6	484.6	484.4
152.5°	494.7	495.2	495.7	496.3	496.9	497.1	496.9	496.7	496.6	496.3	496.2
155°	512.1	512.8	513.5	514.2	514.9	515.1	514.7	514.3	513.9	513.5	513.4
157.5°	528.0	528.5	529.1	529.7	530.2	530.3	529.9	529.5	529.0	528.6	528.5
160°	538.2	538.6	539.0	539.4	539.8	539.8	539.3	538.8	538.3	537.8	537.8
162.5°	545.8	546.5	547.1	547.9	548.5	548.6	548.1	547.5	547.0	546.5	546.4
165°	556.9	557.6	558.4	559.1	559.8	559.9	559.3	558.7	558.1	557.4	557.4
167.5°	566.3	567.0	567.6	568.3	568.9	568.9	568.3	567.6	567.0	566.3	566.3
170°	571.2	571.9	572.6	573.3	574.0	574.0	573.3	572.6	571.9	571.2	571.2
172.5°	574.8	575.5	576.2	576.9	577.6	577.6	577.0	576.4	575.8	575.1	575.1
175°	579.0	579.7	580.4	581.1	581.8	581.8	581.2	580.6	580.0	579.4	579.4
177.5°	581.1	581.7	582.3	582.8	583.4	583.4	583.0	582.5	582.0	581.5	581.5
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6



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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°	6.7	6.1	6.4	6.2	6.9	7.0	8.7	10.0	10.5	9.5	9.7
90°	8.4	7.0	5.7	4.5	3.5	2.5	1.5	0.5	1.5	2.5	3.5
92.5°	16.1	15.3	14.5	13.8	13.1	12.4	11.8	11.1	11.8	12.4	13.1
95°	32.2	31.4	30.6	29.9	29.2	28.4	27.7	27.0	27.7	28.4	29.2
97.5°	51.8	51.2	50.6	50.1	49.6	49.0	48.5	48.0	48.5	49.0	49.6
100°	66.2	65.7	65.2	64.6	64.0	63.4	62.8	62.2	62.8	63.4	64.0
102.5°	82.0	81.4	80.7	80.2	79.8	79.5	79.1	78.7	79.1	79.5	79.8
105°	106.1	105.2	104.3	103.8	103.6	103.4	103.2	103.0	103.2	103.4	103.6
107.5°	132.6	132.3	131.9	131.7	131.5	131.4	131.3	131.2	131.3	131.4	131.5
110°	150.2	150.0	149.8	149.6	149.4	149.2	149.0	148.8	149.0	149.2	149.4





TEST NUMBER: P332411-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	167.7	167.6	167.6	167.5	167.4	167.3	167.1	167.0	167.1	167.3	167.4
115°	195.4	195.6	195.8	195.7	195.4	195.1	194.8	194.5	194.8	195.1	195.4
117.5°	222.4	222.7	222.9	223.0	222.8	222.6	222.4	222.2	222.4	222.6	222.8
120°	240.9	241.4	241.9	241.8	241.2	240.5	239.9	239.3	239.9	240.5	241.2
122.5°	258.6	258.9	259.1	259.0	258.6	258.2	257.7	257.3	257.7	258.2	258.6
125°	285.5	285.7	285.9	285.9	285.6	285.3	285.0	284.7	285.0	285.3	285.6
127.5°	312.3	312.6	312.8	312.6	311.8	311.2	310.5	309.9	310.5	311.2	311.8
130°	329.6	329.9	330.2	330.0	329.2	328.4	327.6	326.8	327.6	328.4	329.2
132.5°	346.7	346.9	347.2	346.9	346.1	345.3	344.4	343.6	344.4	345.3	346.1
135°	371.8	371.9	372.0	371.7	371.1	370.5	369.9	369.3	369.9	370.5	371.1
137.5°	396.1	395.8	395.6	395.2	394.7	394.2	393.6	393.1	393.6	394.2	394.7
140°	412.1	412.0	411.9	411.6	411.1	410.6	410.1	409.6	410.1	410.6	411.1
142.5°	427.4	427.2	427.0	426.7	426.2	425.7	425.2	424.6	425.2	425.7	426.2
145°	449.7	449.4	449.1	448.9	448.7	448.5	448.3	448.1	448.3	448.5	448.7
147.5°	470.9	470.6	470.3	470.0	469.6	469.3	468.9	468.6	468.9	469.3	469.6
150°	484.2	484.0	483.8	483.6	483.4	483.2	483.0	482.8	483.0	483.2	483.4
152.5°	496.1	495.9	495.8	495.6	495.3	495.1	494.8	494.5	494.8	495.1	495.3
155°	513.3	513.2	513.1	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0
157.5°	528.5	528.4	528.3	528.3	528.4	528.6	528.7	528.8	528.7	528.6	528.4
160°	537.8	537.8	537.8	537.9	538.1	538.3	538.5	538.7	538.5	538.3	538.1
162.5°	546.3	546.2	546.2	546.3	546.5	546.8	547.1	547.4	547.1	546.8	546.5
165°	557.4	557.4	557.4	557.5	557.8	558.2	558.5	558.8	558.5	558.2	557.8
167.5°	566.2	566.1	566.0	566.2	566.6	567.0	567.4	567.8	567.4	567.0	566.6
170°	571.2	571.2	571.2	571.4	571.8	572.2	572.6	573.0	572.6	572.2	571.8
172.5°	575.1	575.1	575.1	575.3	575.8	576.2	576.6	577.0	576.6	576.2	575.8
175°	579.4	579.4	579.4	579.6	580.0	580.4	580.8	581.2	580.8	580.4	580.0
177.5°	581.5	581.5	581.5	581.7	582.0	582.3	582.6	583.0	582.6	582.3	582.0
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6



TEST NUMBER: P332411-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A1

**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	11.9	12.4	12.4	12.8	12.9	13.2	13.3	13.4
90°	4.5	5.7	7.0	8.4	9.7	11.0	11.4	11.8	12.2	12.6	12.9
92.5°	13.8	14.5	15.3	16.1	16.9	17.6	17.9	18.2	18.6	18.9	19.0
95°	29.9	30.6	31.4	32.2	33.0	33.8	34.2	34.6	35.0	35.4	35.6
97.5°	50.1	50.6	51.2	51.8	52.4	53.0	53.4	53.9	54.4	54.8	55.0
100°	64.6	65.2	65.7	66.2	66.8	67.3	67.6	67.9	68.2	68.5	68.8
102.5°	80.2	80.7	81.4	82.0	82.7	83.4	83.7	84.0	84.3	84.6	84.7
105°	103.8	104.3	105.2	106.1	107.0	108.0	108.0	108.0	108.0	108.0	108.1
107.5°	131.7	131.9	132.3	132.6	133.0	133.4	133.7	134.0	134.3	134.6	134.7
110°	149.6	149.8	150.0	150.2	150.4	150.6	151.0	151.4	151.8	152.2	152.3



TEST NUMBER: P332411-840

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	167.5	167.6	167.6	167.7	167.7	167.7	168.2	168.7	169.3	169.8	170.0
115°	195.7	195.8	195.6	195.4	195.2	195.0	195.1	195.2	195.3	195.4	195.4
117.5°	223.0	222.9	222.7	222.4	222.2	221.9	221.9	221.9	221.8	221.8	221.7
120°	241.8	241.9	241.4	240.9	240.3	239.8	239.7	239.6	239.5	239.4	239.2
122.5°	259.0	259.1	258.9	258.6	258.4	258.1	257.8	257.6	257.3	257.0	256.8
125°	285.9	285.9	285.7	285.5	285.3	285.1	284.7	284.3	283.9	283.5	283.1
127.5°	312.6	312.8	312.6	312.3	312.0	311.8	311.2	310.7	310.1	309.5	309.0
130°	330.0	330.2	329.9	329.6	329.3	329.0	328.6	328.2	327.8	327.4	326.9
132.5°	346.9	347.2	346.9	346.7	346.5	346.3	345.8	345.3	344.8	344.3	343.8
135°	371.7	372.0	371.9	371.8	371.7	371.6	371.2	370.8	370.4	370.0	369.7
137.5°	395.2	395.6	395.8	396.1	396.4	396.6	396.2	395.8	395.4	394.9	394.5
140°	411.6	411.9	412.0	412.1	412.2	412.3	412.2	412.1	412.0	411.9	411.5
142.5°	426.7	427.0	427.2	427.4	427.6	427.7	427.6	427.5	427.4	427.3	427.0
145°	448.9	449.1	449.4	449.7	450.0	450.3	450.2	450.1	450.0	449.9	449.7
147.5°	470.0	470.3	470.6	470.9	471.2	471.5	471.5	471.5	471.5	471.5	471.2
150°	483.6	483.8	484.0	484.2	484.4	484.6	484.6	484.6	484.6	484.6	484.3
152.5°	495.6	495.8	495.9	496.1	496.2	496.3	496.6	496.7	496.9	497.1	496.9
155°	513.0	513.1	513.2	513.3	513.4	513.5	513.9	514.3	514.7	515.1	514.9
157.5°	528.3	528.3	528.4	528.5	528.5	528.6	529.0	529.5	529.9	530.3	530.2
160°	537.9	537.8	537.8	537.8	537.8	537.8	538.3	538.8	539.3	539.8	539.8
162.5°	546.3	546.2	546.2	546.3	546.4	546.5	547.0	547.5	548.1	548.6	548.5
165°	557.5	557.4	557.4	557.4	557.4	557.4	558.1	558.7	559.3	559.9	559.8
167.5°	566.2	566.0	566.1	566.2	566.3	566.3	567.0	567.6	568.3	568.9	568.9
170°	571.4	571.2	571.2	571.2	571.2	571.2	571.9	572.6	573.3	574.0	574.0
172.5°	575.3	575.1	575.1	575.1	575.1	575.1	575.8	576.4	577.0	577.6	577.6
175°	579.6	579.4	579.4	579.4	579.4	579.4	580.0	580.6	581.2	581.8	581.8
177.5°	581.7	581.5	581.5	581.5	581.5	581.5	582.0	582.5	583.0	583.4	583.4
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6



TEST NUMBER: P332411-840

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**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	13.5	13.5	13.8	13.5	13.5	14.0	13.4	13.3	13.2	12.9
90°	13.1	13.3	13.5	13.7	13.5	13.3	13.1	12.9	12.6	12.2	11.8
92.5°	18.9	18.7	18.6	18.5	18.6	18.7	18.9	19.0	18.9	18.6	18.2
95°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.4	35.0	34.6
97.5°	55.0	55.0	54.9	54.9	54.9	55.0	55.0	55.0	54.8	54.4	53.9
100°	69.0	69.2	69.4	69.6	69.4	69.2	69.0	68.8	68.5	68.2	67.9
102.5°	84.7	84.6	84.6	84.5	84.6	84.6	84.7	84.7	84.6	84.3	84.0
105°	108.4	108.6	108.8	109.0	108.8	108.6	108.4	108.1	108.0	108.0	108.0
107.5°	134.6	134.5	134.4	134.3	134.4	134.5	134.6	134.7	134.6	134.3	134.0
110°	152.1	151.9	151.7	151.5	151.7	151.9	152.1	152.3	152.2	151.8	151.4



TEST NUMBER: P332411-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	169.9	169.9	169.9	169.8	169.9	169.9	169.9	170.0	169.8	169.3	168.7
115°	195.3	195.2	195.1	195.0	195.1	195.2	195.3	195.4	195.4	195.3	195.2
117.5°	221.4	221.1	220.8	220.5	220.8	221.1	221.4	221.7	221.8	221.8	221.9
120°	239.0	238.8	238.6	238.4	238.6	238.8	239.0	239.2	239.4	239.5	239.6
122.5°	256.5	256.2	255.9	255.6	255.9	256.2	256.5	256.8	257.0	257.3	257.6
125°	282.7	282.3	281.9	281.4	281.9	282.3	282.7	283.1	283.5	283.9	284.3
127.5°	308.6	308.1	307.6	307.2	307.6	308.1	308.6	309.0	309.5	310.1	310.7
130°	326.2	325.5	324.8	324.0	324.8	325.5	326.2	326.9	327.4	327.8	328.2
132.5°	343.3	342.6	342.1	341.5	342.1	342.6	343.3	343.8	344.3	344.8	345.3
135°	369.5	369.3	369.1	368.9	369.1	369.3	369.5	369.7	370.0	370.4	370.8
137.5°	394.0	393.7	393.3	392.9	393.3	393.7	394.0	394.5	394.9	395.4	395.8
140°	410.8	410.1	409.4	408.7	409.4	410.1	410.8	411.5	411.9	412.0	412.1
142.5°	426.5	425.9	425.4	424.7	425.4	425.9	426.5	427.0	427.3	427.4	427.5
145°	449.3	448.9	448.5	448.1	448.5	448.9	449.3	449.7	449.9	450.0	450.1
147.5°	470.6	469.9	469.3	468.7	469.3	469.9	470.6	471.2	471.5	471.5	471.5
150°	483.7	483.1	482.5	481.9	482.5	483.1	483.7	484.3	484.6	484.6	484.6
152.5°	496.3	495.7	495.2	494.7	495.2	495.7	496.3	496.9	497.1	496.9	496.7
155°	514.2	513.5	512.8	512.1	512.8	513.5	514.2	514.9	515.1	514.7	514.3
157.5°	529.7	529.1	528.5	528.0	528.5	529.1	529.7	530.2	530.3	529.9	529.5
160°	539.4	539.0	538.6	538.2	538.6	539.0	539.4	539.8	539.8	539.3	538.8
162.5°	547.9	547.1	546.5	545.8	546.5	547.1	547.9	548.5	548.6	548.1	547.5
165°	559.1	558.4	557.6	556.9	557.6	558.4	559.1	559.8	559.9	559.3	558.7
167.5°	568.3	567.6	567.0	566.3	567.0	567.6	568.3	568.9	568.9	568.3	567.6
170°	573.3	572.6	571.9	571.2	571.9	572.6	573.3	574.0	574.0	573.3	572.6
172.5°	576.9	576.2	575.5	574.8	575.5	576.2	576.9	577.6	577.6	577.0	576.4
175°	581.1	580.4	579.7	579.0	579.7	580.4	581.1	581.8	581.8	581.2	580.6
177.5°	582.8	582.3	581.7	581.1	581.7	582.3	582.8	583.4	583.4	583.0	582.5
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6



TEST NUMBER: P332411-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A1

**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	11.9	11.3	10.7	9.6	9.7	9.5	10.5	10.0
90°	11.4	11.0	9.7	8.4	7.0	5.7	4.5	3.5	2.5	1.5	0.5
92.5°	17.9	17.6	16.9	16.1	15.3	14.5	13.8	13.1	12.4	11.8	11.1
95°	34.2	33.8	33.0	32.2	31.4	30.6	29.9	29.2	28.4	27.7	27.0
97.5°	53.4	53.0	52.4	51.8	51.2	50.6	50.1	49.6	49.0	48.5	48.0
100°	67.6	67.3	66.8	66.2	65.7	65.2	64.6	64.0	63.4	62.8	62.2
102.5°	83.7	83.4	82.7	82.0	81.4	80.7	80.2	79.8	79.5	79.1	78.7
105°	108.0	108.0	107.0	106.1	105.2	104.3	103.8	103.6	103.4	103.2	103.0
107.5°	133.7	133.4	133.0	132.6	132.3	131.9	131.7	131.5	131.4	131.3	131.2
110°	151.0	150.6	150.4	150.2	150.0	149.8	149.6	149.4	149.2	149.0	148.8



TEST NUMBER: P332411-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	168.2	167.7	167.7	167.7	167.6	167.6	167.5	167.4	167.3	167.1	167.0
115°	195.1	195.0	195.2	195.4	195.6	195.8	195.7	195.4	195.1	194.8	194.5
117.5°	221.9	221.9	222.2	222.4	222.7	222.9	223.0	222.8	222.6	222.4	222.2
120°	239.7	239.8	240.3	240.9	241.4	241.9	241.8	241.2	240.5	239.9	239.3
122.5°	257.8	258.1	258.4	258.6	258.9	259.1	259.0	258.6	258.2	257.7	257.3
125°	284.7	285.1	285.3	285.5	285.7	285.9	285.9	285.6	285.3	285.0	284.7
127.5°	311.2	311.8	312.0	312.3	312.6	312.8	312.6	311.8	311.2	310.5	309.9
130°	328.6	329.0	329.3	329.6	329.9	330.2	330.0	329.2	328.4	327.6	326.8
132.5°	345.8	346.3	346.5	346.7	346.9	347.2	346.9	346.1	345.3	344.4	343.6
135°	371.2	371.6	371.7	371.8	371.9	372.0	371.7	371.1	370.5	369.9	369.3
137.5°	396.2	396.6	396.4	396.1	395.8	395.6	395.2	394.7	394.2	393.6	393.1
140°	412.2	412.3	412.2	412.1	412.0	411.9	411.6	411.1	410.6	410.1	409.6
142.5°	427.6	427.7	427.6	427.4	427.2	427.0	426.7	426.2	425.7	425.2	424.6
145°	450.2	450.3	450.0	449.7	449.4	449.1	448.9	448.7	448.5	448.3	448.1
147.5°	471.5	471.5	471.2	470.9	470.6	470.3	470.0	469.6	469.3	468.9	468.6
150°	484.6	484.6	484.4	484.2	484.0	483.8	483.6	483.4	483.2	483.0	482.8
152.5°	496.6	496.3	496.2	496.1	495.9	495.8	495.6	495.3	495.1	494.8	494.5
155°	513.9	513.5	513.4	513.3	513.2	513.1	513.0	513.0	513.0	513.0	513.0
157.5°	529.0	528.6	528.5	528.5	528.4	528.3	528.3	528.4	528.6	528.7	528.8
160°	538.3	537.8	537.8	537.8	537.8	537.8	537.9	538.1	538.3	538.5	538.7
162.5°	547.0	546.5	546.4	546.3	546.2	546.2	546.3	546.5	546.8	547.1	547.4
165°	558.1	557.4	557.4	557.4	557.4	557.4	557.5	557.8	558.2	558.5	558.8
167.5°	567.0	566.3	566.3	566.2	566.1	566.0	566.2	566.6	567.0	567.4	567.8
170°	571.9	571.2	571.2	571.2	571.2	571.2	571.4	571.8	572.2	572.6	573.0
172.5°	575.8	575.1	575.1	575.1	575.1	575.1	575.3	575.8	576.2	576.6	577.0
175°	580.0	579.4	579.4	579.4	579.4	579.4	579.6	580.0	580.4	580.8	581.2
177.5°	582.0	581.5	581.5	581.5	581.5	581.5	581.7	582.0	582.3	582.6	583.0
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6



TEST NUMBER: P332411-840

CATALOG NUMBER: S123RDIW-S560D460U840-4F0-1E-UDD-A1

**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	6.7	6.3	6.3	6.6	6.1
90°	1.5	2.5	3.5	4.5	5.7	7.0	8.4	9.7	11.0	11.4	11.8
92.5°	11.8	12.4	13.1	13.8	14.5	15.3	16.1	16.9	17.6	17.9	18.2
95°	27.7	28.4	29.2	29.9	30.6	31.4	32.2	33.0	33.8	34.2	34.6
97.5°	48.5	49.0	49.6	50.1	50.6	51.2	51.8	52.4	53.0	53.4	53.9
100°	62.8	63.4	64.0	64.6	65.2	65.7	66.2	66.8	67.3	67.6	67.9
102.5°	79.1	79.5	79.8	80.2	80.7	81.4	82.0	82.7	83.4	83.7	84.0
105°	103.2	103.4	103.6	103.8	104.3	105.2	106.1	107.0	108.0	108.0	108.0
107.5°	131.3	131.4	131.5	131.7	131.9	132.3	132.6	133.0	133.4	133.7	134.0
110°	149.0	149.2	149.4	149.6	149.8	150.0	150.2	150.4	150.6	151.0	151.4





TEST NUMBER: P332411-840

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	167.1	167.3	167.4	167.5	167.6	167.6	167.7	167.7	167.7	168.2	168.7
115°	194.8	195.1	195.4	195.7	195.8	195.6	195.4	195.2	195.0	195.1	195.2
117.5°	222.4	222.6	222.8	223.0	222.9	222.7	222.4	222.2	221.9	221.9	221.9
120°	239.9	240.5	241.2	241.8	241.9	241.4	240.9	240.3	239.8	239.7	239.6
122.5°	257.7	258.2	258.6	259.0	259.1	258.9	258.6	258.4	258.1	257.8	257.6
125°	285.0	285.3	285.6	285.9	285.9	285.7	285.5	285.3	285.1	284.7	284.3
127.5°	310.5	311.2	311.8	312.6	312.8	312.6	312.3	312.0	311.8	311.2	310.7
130°	327.6	328.4	329.2	330.0	330.2	329.9	329.6	329.3	329.0	328.6	328.2
132.5°	344.4	345.3	346.1	346.9	347.2	346.9	346.7	346.5	346.3	345.8	345.3
135°	369.9	370.5	371.1	371.7	372.0	371.9	371.8	371.7	371.6	371.2	370.8
137.5°	393.6	394.2	394.7	395.2	395.6	395.8	396.1	396.4	396.6	396.2	395.8
140°	410.1	410.6	411.1	411.6	411.9	412.0	412.1	412.2	412.3	412.2	412.1
142.5°	425.2	425.7	426.2	426.7	427.0	427.2	427.4	427.6	427.7	427.6	427.5
145°	448.3	448.5	448.7	448.9	449.1	449.4	449.7	450.0	450.3	450.2	450.1
147.5°	468.9	469.3	469.6	470.0	470.3	470.6	470.9	471.2	471.5	471.5	471.5
150°	483.0	483.2	483.4	483.6	483.8	484.0	484.2	484.4	484.6	484.6	484.6
152.5°	494.8	495.1	495.3	495.6	495.8	495.9	496.1	496.2	496.3	496.6	496.7
155°	513.0	513.0	513.0	513.0	513.1	513.2	513.3	513.4	513.5	513.9	514.3
157.5°	528.7	528.6	528.4	528.3	528.3	528.4	528.5	528.5	528.6	529.0	529.5
160°	538.5	538.3	538.1	537.9	537.8	537.8	537.8	537.8	537.8	538.3	538.8
162.5°	547.1	546.8	546.5	546.3	546.2	546.2	546.3	546.4	546.5	547.0	547.5
165°	558.5	558.2	557.8	557.5	557.4	557.4	557.4	557.4	557.4	558.1	558.7
167.5°	567.4	567.0	566.6	566.2	566.0	566.1	566.2	566.3	566.3	567.0	567.6
170°	572.6	572.2	571.8	571.4	571.2	571.2	571.2	571.2	571.2	571.9	572.6
172.5°	576.6	576.2	575.8	575.3	575.1	575.1	575.1	575.1	575.1	575.8	576.4
175°	580.8	580.4	580.0	579.6	579.4	579.4	579.4	579.4	579.4	580.0	580.6
177.5°	582.6	582.3	582.0	581.7	581.5	581.5	581.5	581.5	581.5	582.0	582.5
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6



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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°	6.2	6.3	6.0	6.1	5.8	6.5	5.9
90°	12.2	12.6	12.9	13.1	13.3	13.5	13.7
92.5°	18.6	18.9	19.0	18.9	18.7	18.6	18.5
95°	35.0	35.4	35.6	35.6	35.6	35.6	35.6
97.5°	54.4	54.8	55.0	55.0	55.0	54.9	54.9
100°	68.2	68.5	68.8	69.0	69.2	69.4	69.6
102.5°	84.3	84.6	84.7	84.7	84.6	84.6	84.5
105°	108.0	108.0	108.1	108.4	108.6	108.8	109.0
107.5°	134.3	134.6	134.7	134.6	134.5	134.4	134.3
110°	151.8	152.2	152.3	152.1	151.9	151.7	151.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	169.3	169.8	170.0	169.9	169.9	169.9	169.8
115°	195.3	195.4	195.4	195.3	195.2	195.1	195.0
117.5°	221.8	221.8	221.7	221.4	221.1	220.8	220.5
120°	239.5	239.4	239.2	239.0	238.8	238.6	238.4
122.5°	257.3	257.0	256.8	256.5	256.2	255.9	255.6
125°	283.9	283.5	283.1	282.7	282.3	281.9	281.4
127.5°	310.1	309.5	309.0	308.6	308.1	307.6	307.2
130°	327.8	327.4	326.9	326.2	325.5	324.8	324.0
132.5°	344.8	344.3	343.8	343.3	342.6	342.1	341.5
135°	370.4	370.0	369.7	369.5	369.3	369.1	368.9
137.5°	395.4	394.9	394.5	394.0	393.7	393.3	392.9
140°	412.0	411.9	411.5	410.8	410.1	409.4	408.7
142.5°	427.4	427.3	427.0	426.5	425.9	425.4	424.7
145°	450.0	449.9	449.7	449.3	448.9	448.5	448.1
147.5°	471.5	471.5	471.2	470.6	469.9	469.3	468.7
150°	484.6	484.6	484.3	483.7	483.1	482.5	481.9
152.5°	496.9	497.1	496.9	496.3	495.7	495.2	494.7
155°	514.7	515.1	514.9	514.2	513.5	512.8	512.1
157.5°	529.9	530.3	530.2	529.7	529.1	528.5	528.0
160°	539.3	539.8	539.8	539.4	539.0	538.6	538.2
162.5°	548.1	548.6	548.5	547.9	547.1	546.5	545.8
165°	559.3	559.9	559.8	559.1	558.4	557.6	556.9
167.5°	568.3	568.9	568.9	568.3	567.6	567.0	566.3
170°	573.3	574.0	574.0	573.3	572.6	571.9	571.2
172.5°	577.0	577.6	577.6	576.9	576.2	575.5	574.8
175°	581.2	581.8	581.8	581.1	580.4	579.7	579.0
177.5°	583.0	583.4	583.4	582.8	582.3	581.7	581.1
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6

(END OF REPORT)