

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: P332120-840

Luminaire Tested: **S123DIW-S560D460U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332120-840  
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: S123DIW-S560D460U840-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 460 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4273.5 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

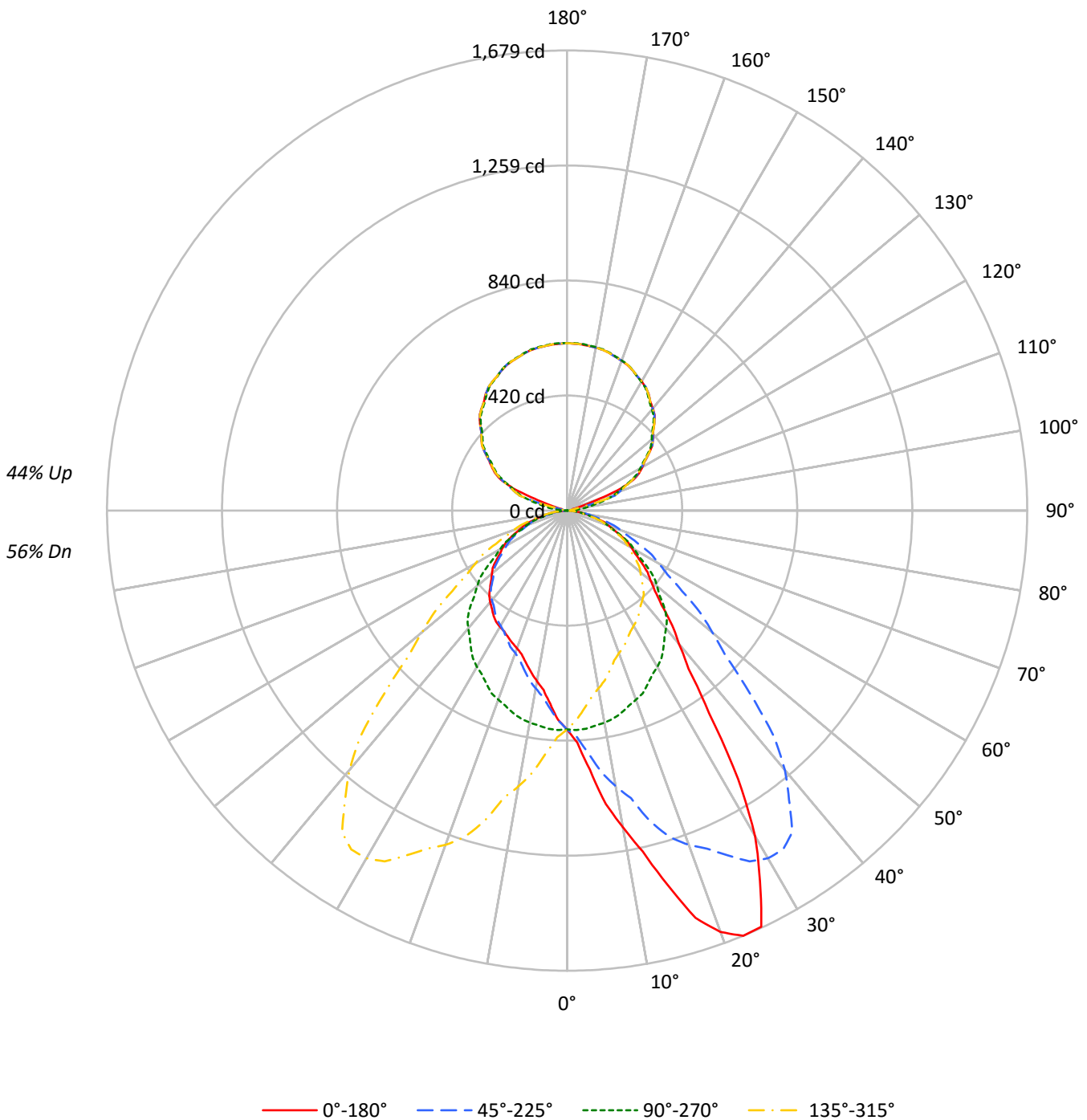
Input Watts (W): 30.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	100	95	91	88	92	89	86	83	77	74	72	66	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	68	64	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	44	41	39	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	34	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	52	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	39	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	8593	8593	8593	8593
5°	10247	8630	7648	8630
10°	12826	8587	6908	8587
15°	15731	8517	6430	8517
20°	18741	8409	6123	8409
25°	19899	8278	6055	8278
30°	17056	8182	6087	8182
35°	11862	8046	6150	8046
40°	8934	7886	6131	7886
45°	7419	7648	6052	7648
50°	6646	7164	5998	7164
55°	6212	6641	5923	6641
60°	5828	6097	5862	6097
65°	5476	5555	5675	5555
70°	5136	4941	5404	4941
75°	4600	4325	4957	4325
80°	4023	3552	4271	3552
85°	3149	2581	2865	2581



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.6	1.8
10°-20°	252.2	5.9
20°-30°	423.2	9.9
30°-40°	479.2	11.2
40°-50°	429.7	10.1
50°-60°	346.8	8.1
60°-70°	241.7	5.7
70°-80°	127.0	3.0
80°-90°	32.8	0.8
90°-100°	22.2	0.5
100°-110°	105.8	2.5
110°-120°	254.2	5.9
120°-130°	323.7	7.6
130°-140°	345.8	8.1
140°-150°	323.4	7.6
150°-160°	260.8	6.1
160°-170°	168.4	3.9
170°-180°	58.0	1.4
0°-30°	754.0	17.6
0°-40°	1233.2	28.9
0°-60°	2009.7	47.0
0°-90°	2411.2	56.4
90°-120°	382.2	8.9
90°-150°	1375.1	32.2
90°-180°	1862.0	43.6
0°-180°	4273.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	798	798	798	798	798	
5°	948	799	708	799	948	98
15°	1412	764	577	764	1412	408
25°	1676	697	510	697	1676	735
35°	903	612	468	612	903	586
45°	487	502	398	502	487	386
55°	331	354	316	354	331	297
65°	215	218	223	218	215	214
75°	111	104	119	104	111	118
85°	26	21	23	21	26	31
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	847.2	846.6	845.1	846.3	843.7	840.4	840.1	837.0	828.0	827.4	825.0
5°	948.4	945.2	944.9	944.5	939.1	931.7	917.8	916.7	898.1	888.8	877.6
7.5°	1079.4	1081.1	1075.4	1070.5	1053.9	1043.0	1028.0	1009.0	986.1	963.0	947.6
10°	1173.5	1186.2	1170.3	1159.5	1149.5	1130.5	1108.5	1081.1	1053.6	1021.5	997.1
12.5°	1274.3	1280.6	1277.5	1267.2	1251.6	1222.7	1183.7	1153.5	1128.1	1074.7	1053.1
15°	1411.7	1435.3	1420.3	1385.4	1386.2	1358.8	1307.7	1251.6	1221.8	1175.0	1111.2
17.5°	1558.1	1561.0	1554.6	1525.6	1506.2	1468.5	1421.4	1367.7	1307.3	1250.7	1183.0
20°	1636.1	1633.8	1620.2	1605.1	1571.9	1542.5	1491.0	1431.1	1353.7	1298.0	1224.2
22.5°	1679.4	1675.5	1669.1	1656.5	1628.8	1597.2	1551.1	1485.5	1411.9	1335.1	1249.8
25°	1675.5	1680.5	1681.3	1677.8	1668.2	1649.2	1612.9	1560.6	1487.1	1388.6	1299.6
27.5°	1523.9	1531.0	1551.7	1570.0	1590.5	1611.3	1608.6	1582.7	1528.3	1443.1	1334.3
30°	1372.3	1356.8	1395.1	1443.4	1476.3	1534.3	1566.8	1568.7	1538.2	1465.1	1359.1
32.5°	1161.8	1178.9	1195.8	1255.3	1327.2	1392.3	1456.9	1509.0	1515.0	1466.3	1373.6
35°	902.7	924.0	954.9	985.9	1063.3	1129.7	1243.4	1342.5	1421.4	1431.8	1374.9
37.5°	727.4	738.0	757.5	788.5	839.1	918.1	1006.0	1131.1	1245.5	1330.5	1334.2
40°	635.8	638.9	661.0	684.6	725.6	790.5	869.9	980.5	1117.4	1236.2	1285.7
42.5°	567.1	574.0	583.3	606.0	638.6	687.5	761.2	852.7	978.2	1114.8	1211.6
45°	487.4	495.0	500.9	515.9	539.2	572.0	623.5	707.0	802.5	943.7	1074.1
47.5°	434.5	435.2	439.5	450.9	466.7	491.4	527.8	581.4	669.1	783.6	917.5
50°	396.9	403.0	404.6	413.4	425.9	444.0	474.2	519.8	591.8	692.4	815.4
52.5°	370.2	372.0	376.4	382.8	393.6	407.8	433.9	469.7	526.1	611.9	725.0
55°	331.0	331.0	335.4	340.3	346.6	359.3	376.7	403.0	446.0	512.5	606.1
57.5°	294.9	296.8	299.8	301.3	306.6	315.1	329.6	349.6	381.6	432.8	507.3
60°	270.7	274.2	273.9	276.9	281.6	288.1	300.5	316.8	345.4	386.4	449.1
62.5°	249.7	249.4	249.4	253.1	257.7	264.0	272.1	286.1	310.4	346.8	400.1
65°	215.0	214.3	217.0	219.3	220.9	225.5	231.7	244.1	260.3	287.4	328.7
67.5°	184.3	182.0	183.5	184.3	186.9	190.6	196.3	204.0	216.9	238.6	269.8
70°	163.2	161.3	160.9	161.7	164.0	166.7	171.0	178.3	190.3	207.7	230.6
72.5°	141.6	140.3	140.2	141.9	143.0	144.7	147.7	154.5	164.0	177.0	198.3
75°	110.6	110.6	110.6	111.0	112.2	113.7	116.0	119.5	126.8	136.1	150.5
77.5°	82.9	82.8	82.4	82.3	84.0	84.7	85.2	88.5	92.6	98.9	109.3
80°	64.9	63.0	63.8	64.9	65.7	66.1	67.3	68.1	71.6	75.0	82.4
82.5°	48.3	46.7	46.8	48.6	48.8	49.1	50.3	51.4	52.7	55.8	59.8
85°	25.5	25.5	26.0	26.0	26.3	26.0	27.1	27.5	27.5	29.4	31.7
87.5°	12.0	11.3	11.6	11.9	11.5	11.8	12.0	12.2	12.4	12.7	12.7
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



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**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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	823.0	820.6	818.1	813.7	810.0	804.8	803.2	801.4	795.9	790.8	787.2
5°	873.3	864.0	850.5	838.1	828.1	814.6	806.8	798.7	787.1	776.7	768.1
7.5°	925.9	907.7	886.7	863.9	842.7	822.2	805.8	791.1	774.9	759.4	747.5
10°	967.8	941.4	912.0	880.3	853.2	826.9	804.9	785.6	764.7	746.5	731.3
12.5°	1015.3	976.3	935.8	897.3	865.3	828.8	802.1	777.5	753.9	732.0	715.0
15°	1071.8	1022.3	974.3	921.3	872.5	826.9	795.2	764.3	736.8	714.4	692.7
17.5°	1123.1	1067.0	1003.8	939.4	880.6	826.5	782.0	747.1	712.8	685.3	663.7
20°	1152.2	1088.3	1016.8	949.9	884.9	824.6	775.9	734.1	697.0	667.9	643.6
22.5°	1177.3	1102.6	1028.5	957.0	884.6	819.6	764.5	721.4	681.2	652.8	626.9
25°	1203.3	1113.9	1039.7	955.7	874.8	807.6	745.7	697.0	656.7	623.5	596.8
27.5°	1225.6	1113.2	1025.0	934.7	859.6	792.1	726.1	673.8	631.1	594.9	567.8
30°	1240.4	1114.7	1009.9	920.5	844.8	775.1	710.8	658.3	613.4	576.6	551.2
32.5°	1249.7	1113.8	995.9	900.7	821.2	759.6	694.5	640.1	593.9	557.8	533.2
35°	1255.1	1106.9	972.0	859.8	783.3	723.3	668.7	612.3	563.9	530.3	502.4
37.5°	1244.3	1092.7	944.1	820.3	736.5	677.5	631.6	583.5	537.2	500.2	476.2
40°	1227.2	1083.4	922.4	792.5	704.3	647.4	608.4	561.2	515.5	480.4	458.0
42.5°	1194.8	1064.5	898.7	761.5	670.9	614.0	578.0	538.7	495.4	462.4	440.0
45°	1115.5	1023.4	862.9	715.2	621.6	562.8	531.1	502.4	463.3	431.2	411.9
47.5°	1005.4	961.6	811.2	666.2	570.1	513.5	480.5	457.5	428.9	403.0	384.5
50°	929.1	910.9	776.3	632.8	535.6	480.4	448.7	427.8	407.3	381.3	364.4
52.5°	840.8	852.0	735.4	598.1	500.7	446.4	416.5	399.9	381.3	360.0	345.2
55°	716.7	757.3	664.9	540.0	448.7	396.9	368.6	353.9	343.1	327.2	314.5
57.5°	600.5	652.1	588.5	480.0	397.5	352.8	325.8	309.7	302.8	294.5	284.5
60°	531.4	582.5	534.1	439.8	363.1	320.6	296.7	283.2	276.2	270.3	261.9
62.5°	469.9	521.5	480.9	398.9	329.4	290.0	269.1	255.9	250.4	247.4	240.1
65°	385.3	429.7	402.6	335.4	281.1	246.4	227.4	218.1	213.1	212.0	207.3
67.5°	313.6	347.4	327.7	278.1	235.5	205.4	189.3	181.5	177.6	177.2	173.7
70°	266.5	298.2	283.2	238.2	201.5	177.9	164.0	157.0	154.7	154.3	152.4
72.5°	229.9	252.1	240.1	202.7	174.3	152.9	142.6	135.3	132.7	133.3	132.0
75°	170.2	186.8	179.9	153.9	131.1	117.1	108.7	104.0	101.7	102.9	101.3
77.5°	122.5	133.0	126.7	108.8	94.7	84.6	78.4	75.5	73.4	73.3	72.6
80°	92.4	98.7	95.1	84.3	72.7	64.2	59.2	57.3	56.0	55.7	55.3
82.5°	65.8	71.1	67.0	59.6	51.7	46.6	43.7	41.2	40.3	40.5	40.2
85°	33.2	35.2	33.6	29.0	26.0	23.6	22.0	20.9	20.1	20.5	19.7
87.5°	13.1	13.1	11.9	10.5	9.7	8.6	8.4	7.5	7.1	7.3	7.2
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: P332120-840

CATALOG NUMBER: S123DIW-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: P332120-840

CATALOG NUMBER: S123DIW-S560D460U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	785.0	782.8	779.7	775.1	771.3	765.5	765.5	766.4	766.4	766.1	765.5
5°	761.1	755.4	748.4	740.3	731.7	723.3	721.8	718.6	716.3	714.8	712.9
7.5°	736.0	725.8	715.6	704.3	693.9	685.3	679.3	674.4	671.2	667.8	665.3
10°	719.0	706.2	694.3	682.3	669.1	658.6	652.1	647.4	644.0	640.9	639.3
12.5°	698.9	684.3	671.1	659.6	645.3	634.5	628.2	626.1	622.0	615.5	612.1
15°	669.5	656.0	640.2	622.7	615.7	602.6	595.2	591.8	589.5	584.4	582.9
17.5°	644.4	626.6	608.8	595.8	582.9	572.3	568.2	563.8	560.8	556.6	555.4
20°	624.3	608.4	592.2	578.2	564.7	553.1	549.6	546.5	543.4	541.5	540.0
22.5°	603.8	587.9	574.5	561.5	547.0	539.5	535.6	532.3	530.1	528.8	527.3
25°	575.1	561.2	546.1	534.5	522.9	517.9	515.5	513.6	512.1	510.2	509.8
27.5°	549.5	534.3	522.1	511.2	502.9	498.7	496.4	495.5	495.8	496.6	497.0
30°	530.3	516.3	506.2	497.0	489.3	485.4	485.0	485.0	486.6	487.0	487.8
32.5°	512.6	501.2	491.1	482.1	476.3	473.6	475.1	475.1	476.4	477.4	478.8
35°	487.0	476.9	469.2	461.4	456.4	457.6	458.3	459.1	461.0	463.3	464.9
37.5°	462.4	453.7	445.7	439.6	437.3	439.4	441.2	442.8	445.1	446.9	448.4
40°	444.7	438.2	430.5	425.1	425.9	427.0	428.6	430.5	432.4	433.5	435.2
42.5°	428.4	421.5	415.7	411.1	412.2	413.7	414.7	415.7	417.9	420.0	420.9
45°	403.4	398.0	392.5	389.9	390.6	391.4	392.2	393.3	395.3	396.9	397.2
47.5°	375.4	371.5	367.9	365.3	366.5	366.2	367.2	369.7	370.3	371.2	373.3
50°	357.4	353.9	349.6	348.9	348.9	348.9	349.2	352.3	352.3	353.9	355.5
52.5°	337.6	335.4	332.6	331.2	330.6	330.6	332.2	333.8	334.4	336.6	338.1
55°	308.2	305.9	303.7	302.5	301.6	302.5	305.6	306.3	308.2	309.4	310.5
57.5°	277.7	275.9	274.1	273.5	273.3	274.3	276.0	278.3	278.8	282.4	284.1
60°	257.6	254.9	253.4	253.4	252.6	256.0	255.3	259.1	259.9	262.3	265.0
62.5°	236.8	233.2	232.6	232.6	233.7	234.7	235.8	237.5	239.5	242.5	244.5
65°	203.5	201.5	204.2	203.8	203.1	205.4	205.4	207.3	209.6	212.4	216.6
67.5°	171.8	170.8	171.1	171.1	172.2	173.5	174.6	176.3	179.0	182.0	184.7
70°	150.5	151.6	149.7	151.3	152.4	152.8	153.5	155.8	159.0	160.9	164.0
72.5°	129.8	129.7	129.9	130.5	131.7	132.4	133.1	135.7	139.2	140.8	143.3
75°	99.8	99.4	100.6	100.6	102.5	103.3	104.0	105.2	108.3	110.6	112.6
77.5°	72.9	73.3	73.1	74.4	73.9	74.0	76.4	77.6	77.9	82.5	83.5
80°	54.9	55.7	56.0	56.5	56.9	56.0	58.8	60.0	60.0	62.6	64.6
82.5°	39.5	39.9	40.9	41.3	41.4	42.1	42.4	43.2	44.1	45.3	47.9
85°	19.7	20.9	21.3	20.9	21.3	20.5	21.6	22.0	22.4	22.4	22.4
87.5°	7.1	7.7	7.6	8.2	8.1	8.7	8.8	8.2	8.3	9.3	8.2
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: P332120-840

CATALOG NUMBER: S123DIW-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: P332120-840

CATALOG NUMBER: S123DIW-S560D460U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	763.4	763.1	765.2	763.7	765.2	763.1	763.4	765.5	766.1	766.4	766.4
5°	710.5	711.7	707.8	707.8	707.8	711.7	710.5	712.9	714.8	716.3	718.6
7.5°	663.5	661.8	662.0	659.8	662.0	661.8	663.5	665.3	667.8	671.2	674.4
10°	634.7	632.4	631.6	632.0	631.6	632.4	634.7	639.3	640.9	644.0	647.4
12.5°	610.9	610.4	605.3	605.4	605.3	610.4	610.9	612.1	615.5	622.0	626.1
15°	582.9	575.5	574.7	577.0	574.7	575.5	582.9	582.9	584.4	589.5	591.8
17.5°	554.8	550.9	551.2	550.0	551.2	550.9	554.8	555.4	556.6	560.8	563.8
20°	540.0	537.7	537.2	534.5	537.2	537.7	540.0	540.0	541.5	543.4	546.5
22.5°	526.3	525.5	525.7	522.8	525.7	525.5	526.3	527.3	528.8	530.1	532.3
25°	509.4	511.3	509.8	509.8	509.8	511.3	509.4	509.8	510.2	512.1	513.6
27.5°	498.0	497.9	497.1	497.1	497.1	497.9	498.0	497.0	496.6	495.8	495.5
30°	489.3	488.9	489.7	489.7	489.7	488.9	489.3	487.8	487.0	486.6	485.0
32.5°	480.6	481.1	481.3	481.6	481.3	481.1	480.6	478.8	477.4	476.4	475.1
35°	467.3	467.6	468.8	468.0	468.8	467.6	467.3	464.9	463.3	461.0	459.1
37.5°	449.1	450.9	450.5	451.1	450.5	450.9	449.1	448.4	446.9	445.1	442.8
40°	435.6	436.7	436.3	436.3	436.3	436.7	435.6	435.2	433.5	432.4	430.5
42.5°	421.6	422.4	421.4	420.8	421.4	422.4	421.6	420.9	420.0	417.9	415.7
45°	398.8	398.0	399.2	397.6	399.2	398.0	398.8	397.2	396.9	395.3	393.3
47.5°	373.2	374.1	374.4	375.5	374.4	374.1	373.2	373.3	371.2	370.3	369.7
50°	356.2	358.5	358.5	358.2	358.5	358.5	356.2	355.5	353.9	352.3	352.3
52.5°	339.5	340.6	342.1	342.0	342.1	340.6	339.5	338.1	336.6	334.4	333.8
55°	313.7	314.5	315.2	315.6	315.2	314.5	313.7	310.5	309.4	308.2	306.3
57.5°	286.9	286.6	288.4	289.0	288.4	286.6	286.9	284.1	282.4	278.8	278.3
60°	268.0	268.0	271.1	272.3	271.1	268.0	268.0	265.0	262.3	259.9	259.1
62.5°	247.9	249.1	252.3	250.6	252.3	249.1	247.9	244.5	242.5	239.5	237.5
65°	218.5	221.7	221.3	222.8	221.3	221.7	218.5	216.6	212.4	209.6	207.3
67.5°	187.8	189.8	192.6	192.8	192.6	189.8	187.8	184.7	182.0	179.0	176.3
70°	167.1	169.1	170.6	171.7	170.6	169.1	167.1	164.0	160.9	159.0	155.8
72.5°	146.9	147.9	151.7	150.1	151.7	147.9	146.9	143.3	140.8	139.2	135.7
75°	115.2	118.0	120.3	119.2	120.3	118.0	115.2	112.6	110.6	108.3	105.2
77.5°	85.2	88.0	89.1	88.1	89.1	88.0	85.2	83.5	82.5	77.9	77.6
80°	67.3	67.0	69.3	68.9	69.3	67.0	67.3	64.6	62.6	60.0	60.0
82.5°	49.4	49.0	50.1	50.3	50.1	49.0	49.4	47.9	45.3	44.1	43.2
85°	23.9	25.1	23.6	23.2	23.6	25.1	23.9	22.4	22.4	22.4	22.0
87.5°	8.2	8.2	8.0	7.7	8.0	8.2	8.2	8.2	9.3	8.3	8.2
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: P332120-840

CATALOG NUMBER: S123DIW-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: P332120-840

CATALOG NUMBER: S123DIW-S560D460U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	765.5	765.5	771.3	775.1	779.7	782.8	785.0	787.2	790.8	795.9	801.4
5°	721.8	723.3	731.7	740.3	748.4	755.4	761.1	768.1	776.7	787.1	798.7
7.5°	679.3	685.3	693.9	704.3	715.6	725.8	736.0	747.5	759.4	774.9	791.1
10°	652.1	658.6	669.1	682.3	694.3	706.2	719.0	731.3	746.5	764.7	785.6
12.5°	628.2	634.5	645.3	659.6	671.1	684.3	698.9	715.0	732.0	753.9	777.5
15°	595.2	602.6	615.7	622.7	640.2	656.0	669.5	692.7	714.4	736.8	764.3
17.5°	568.2	572.3	582.9	595.8	608.8	626.6	644.4	663.7	685.3	712.8	747.1
20°	549.6	553.1	564.7	578.2	592.2	608.4	624.3	643.6	667.9	697.0	734.1
22.5°	535.6	539.5	547.0	561.5	574.5	587.9	603.8	626.9	652.8	681.2	721.4
25°	515.5	517.9	522.9	534.5	546.1	561.2	575.1	596.8	623.5	656.7	697.0
27.5°	496.4	498.7	502.9	511.2	522.1	534.3	549.5	567.8	594.9	631.1	673.8
30°	485.0	485.4	489.3	497.0	506.2	516.3	530.3	551.2	576.6	613.4	658.3
32.5°	475.1	473.6	476.3	482.1	491.1	501.2	512.6	533.2	557.8	593.9	640.1
35°	458.3	457.6	456.4	461.4	469.2	476.9	487.0	502.4	530.3	563.9	612.3
37.5°	441.2	439.4	437.3	439.6	445.7	453.7	462.4	476.2	500.2	537.2	583.5
40°	428.6	427.0	425.9	425.1	430.5	438.2	444.7	458.0	480.4	515.5	561.2
42.5°	414.7	413.7	412.2	411.1	415.7	421.5	428.4	440.0	462.4	495.4	538.7
45°	392.2	391.4	390.6	389.9	392.5	398.0	403.4	411.9	431.2	463.3	502.4
47.5°	367.2	366.2	366.5	365.3	367.9	371.5	375.4	384.5	403.0	428.9	457.5
50°	349.2	348.9	348.9	348.9	349.6	353.9	357.4	364.4	381.3	407.3	427.8
52.5°	332.2	330.6	330.6	331.2	332.6	335.4	337.6	345.2	360.0	381.3	399.9
55°	305.6	302.5	301.6	302.5	303.7	305.9	308.2	314.5	327.2	343.1	353.9
57.5°	276.0	274.3	273.3	273.5	274.1	275.9	277.7	284.5	294.5	302.8	309.7
60°	255.3	256.0	252.6	253.4	253.4	254.9	257.6	261.9	270.3	276.2	283.2
62.5°	235.8	234.7	233.7	232.6	232.6	233.2	236.8	240.1	247.4	250.4	255.9
65°	205.4	205.4	203.1	203.8	204.2	201.5	203.5	207.3	212.0	213.1	218.1
67.5°	174.6	173.5	172.2	171.1	171.1	170.8	171.8	173.7	177.2	177.6	181.5
70°	153.5	152.8	152.4	151.3	149.7	151.6	150.5	152.4	154.3	154.7	157.0
72.5°	133.1	132.4	131.7	130.5	129.9	129.7	129.8	132.0	133.3	132.7	135.3
75°	104.0	103.3	102.5	100.6	100.6	99.4	99.8	101.3	102.9	101.7	104.0
77.5°	76.4	74.0	73.9	74.4	73.1	73.3	72.9	72.6	73.3	73.4	75.5
80°	58.8	56.0	56.9	56.5	56.0	55.7	54.9	55.3	55.7	56.0	57.3
82.5°	42.4	42.1	41.4	41.3	40.9	39.9	39.5	40.2	40.5	40.3	41.2
85°	21.6	20.5	21.3	20.9	21.3	20.9	19.7	19.7	20.5	20.1	20.9
87.5°	8.8	8.7	8.1	8.2	7.6	7.7	7.1	7.2	7.3	7.1	7.5
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: P332120-840

CATALOG NUMBER: S123DIW-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: P332120-840

CATALOG NUMBER: S123DIW-S560D460U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	803.2	804.8	810.0	813.7	818.1	820.6	823.0	825.0	827.4	828.0	837.0
5°	806.8	814.6	828.1	838.1	850.5	864.0	873.3	877.6	888.8	898.1	916.7
7.5°	805.8	822.2	842.7	863.9	886.7	907.7	925.9	947.6	963.0	986.1	1009.0
10°	804.9	826.9	853.2	880.3	912.0	941.4	967.8	997.1	1021.5	1053.6	1081.1
12.5°	802.1	828.8	865.3	897.3	935.8	976.3	1015.3	1053.1	1074.7	1128.1	1153.5
15°	795.2	826.9	872.5	921.3	974.3	1022.3	1071.8	1111.2	1175.0	1221.8	1251.6
17.5°	782.0	826.5	880.6	939.4	1003.8	1067.0	1123.1	1183.0	1250.7	1307.3	1367.7
20°	775.9	824.6	884.9	949.9	1016.8	1088.3	1152.2	1224.2	1298.0	1353.7	1431.1
22.5°	764.5	819.6	884.6	957.0	1028.5	1102.6	1177.3	1249.8	1335.1	1411.9	1485.5
25°	745.7	807.6	874.8	955.7	1039.7	1113.9	1203.3	1299.6	1388.6	1487.1	1560.6
27.5°	726.1	792.1	859.6	934.7	1025.0	1113.2	1225.6	1334.3	1443.1	1528.3	1582.7
30°	710.8	775.1	844.8	920.5	1009.9	1114.7	1240.4	1359.1	1465.1	1538.2	1568.7
32.5°	694.5	759.6	821.2	900.7	995.9	1113.8	1249.7	1373.6	1466.3	1515.0	1509.0
35°	668.7	723.3	783.3	859.8	972.0	1106.9	1255.1	1374.9	1431.8	1421.4	1342.5
37.5°	631.6	677.5	736.5	820.3	944.1	1092.7	1244.3	1334.2	1330.5	1245.5	1131.1
40°	608.4	647.4	704.3	792.5	922.4	1083.4	1227.2	1285.7	1236.2	1117.4	980.5
42.5°	578.0	614.0	670.9	761.5	898.7	1064.5	1194.8	1211.6	1114.8	978.2	852.7
45°	531.1	562.8	621.6	715.2	862.9	1023.4	1115.5	1074.1	943.7	802.5	707.0
47.5°	480.5	513.5	570.1	666.2	811.2	961.6	1005.4	917.5	783.6	669.1	581.4
50°	448.7	480.4	535.6	632.8	776.3	910.9	929.1	815.4	692.4	591.8	519.8
52.5°	416.5	446.4	500.7	598.1	735.4	852.0	840.8	725.0	611.9	526.1	469.7
55°	368.6	396.9	448.7	540.0	664.9	757.3	716.7	606.1	512.5	446.0	403.0
57.5°	325.8	352.8	397.5	480.0	588.5	652.1	600.5	507.3	432.8	381.6	349.6
60°	296.7	320.6	363.1	439.8	534.1	582.5	531.4	449.1	386.4	345.4	316.8
62.5°	269.1	290.0	329.4	398.9	480.9	521.5	469.9	400.1	346.8	310.4	286.1
65°	227.4	246.4	281.1	335.4	402.6	429.7	385.3	328.7	287.4	260.3	244.1
67.5°	189.3	205.4	235.5	278.1	327.7	347.4	313.6	269.8	238.6	216.9	204.0
70°	164.0	177.9	201.5	238.2	283.2	298.2	266.5	230.6	207.7	190.3	178.3
72.5°	142.6	152.9	174.3	202.7	240.1	252.1	229.9	198.3	177.0	164.0	154.5
75°	108.7	117.1	131.1	153.9	179.9	186.8	170.2	150.5	136.1	126.8	119.5
77.5°	78.4	84.6	94.7	108.8	126.7	133.0	122.5	109.3	98.9	92.6	88.5
80°	59.2	64.2	72.7	84.3	95.1	98.7	92.4	82.4	75.0	71.6	68.1
82.5°	43.7	46.6	51.7	59.6	67.0	71.1	65.8	59.8	55.8	52.7	51.4
85°	22.0	23.6	26.0	29.0	33.6	35.2	33.2	31.7	29.4	27.5	27.5
87.5°	8.4	8.6	9.7	10.5	11.9	13.1	13.1	12.7	12.7	12.4	12.2
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: P332120-840

CATALOG NUMBER: S123DIW-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



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	840.1	840.4	843.7	846.3	845.1	846.6	847.2
5°	917.8	931.7	939.1	944.5	944.9	945.2	948.4
7.5°	1028.0	1043.0	1053.9	1070.5	1075.4	1081.1	1079.4
10°	1108.5	1130.5	1149.5	1159.5	1170.3	1186.2	1173.5
12.5°	1183.7	1222.7	1251.6	1267.2	1277.5	1280.6	1274.3
15°	1307.7	1358.8	1386.2	1385.4	1420.3	1435.3	1411.7
17.5°	1421.4	1468.5	1506.2	1525.6	1554.6	1561.0	1558.1
20°	1491.0	1542.5	1571.9	1605.1	1620.2	1633.8	1636.1
22.5°	1551.1	1597.2	1628.8	1656.5	1669.1	1675.5	1679.4
25°	1612.9	1649.2	1668.2	1677.8	1681.3	1680.5	1675.5
27.5°	1608.6	1611.3	1590.5	1570.0	1551.7	1531.0	1523.9
30°	1566.8	1534.3	1476.3	1443.4	1395.1	1356.8	1372.3
32.5°	1456.9	1392.3	1327.2	1255.3	1195.8	1178.9	1161.8
35°	1243.4	1129.7	1063.3	985.9	954.9	924.0	902.7
37.5°	1006.0	918.1	839.1	788.5	757.5	738.0	727.4
40°	869.9	790.5	725.6	684.6	661.0	638.9	635.8
42.5°	761.2	687.5	638.6	606.0	583.3	574.0	567.1
45°	623.5	572.0	539.2	515.9	500.9	495.0	487.4
47.5°	527.8	491.4	466.7	450.9	439.5	435.2	434.5
50°	474.2	444.0	425.9	413.4	404.6	403.0	396.9
52.5°	433.9	407.8	393.6	382.8	376.4	372.0	370.2
55°	376.7	359.3	346.6	340.3	335.4	331.0	331.0
57.5°	329.6	315.1	306.6	301.3	299.8	296.8	294.9
60°	300.5	288.1	281.6	276.9	273.9	274.2	270.7
62.5°	272.1	264.0	257.7	253.1	249.4	249.4	249.7
65°	231.7	225.5	220.9	219.3	217.0	214.3	215.0
67.5°	196.3	190.6	186.9	184.3	183.5	182.0	184.3
70°	171.0	166.7	164.0	161.7	160.9	161.3	163.2
72.5°	147.7	144.7	143.0	141.9	140.2	140.3	141.6
75°	116.0	113.7	112.2	111.0	110.6	110.6	110.6
77.5°	85.2	84.7	84.0	82.3	82.4	82.8	82.9
80°	67.3	66.1	65.7	64.9	63.8	63.0	64.9
82.5°	50.3	49.1	48.8	48.6	46.8	46.7	48.3
85°	27.1	26.0	26.3	26.0	26.0	25.5	25.5
87.5°	12.0	11.8	11.5	11.9	11.6	11.3	12.0
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



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**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)