

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: PORTFOLIO

Report Number: P244154

Luminaire Tested: **LD8B20D010 ER8B209730 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B20D010 ER8B209730 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1708.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

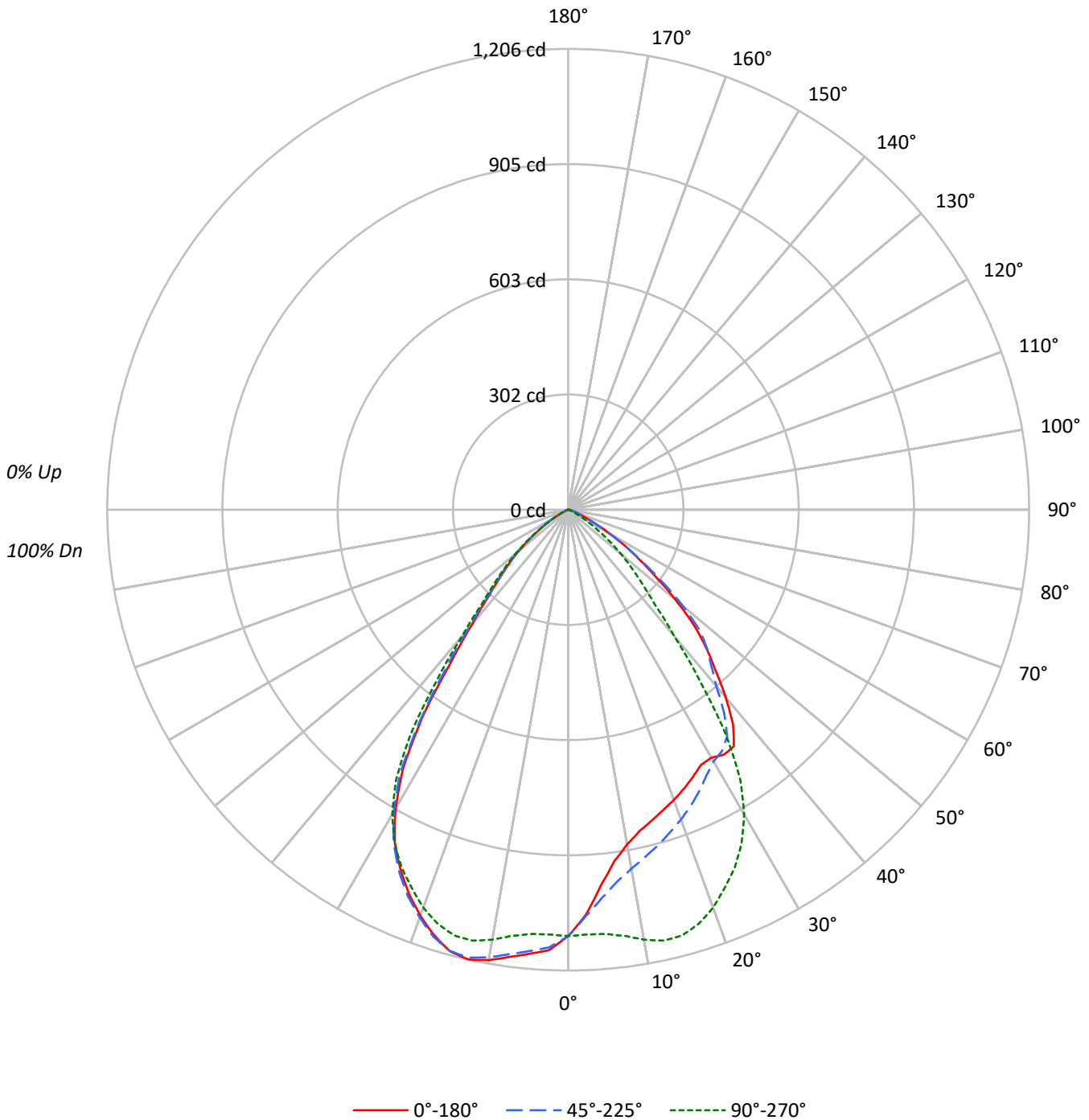
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91						
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82						
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74						
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67						
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60						
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55						
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50						
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46						
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42						
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39						

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	6.1
10°-20°	300.4	17.6
20°-30°	436.0	25.5
30°-40°	429.4	25.1
40°-50°	269.2	15.8
50°-60°	129.9	7.6
60°-70°	31.4	1.8
70°-80°	6.4	0.4
80°-90°	1.5	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	840.3	49.2
0°-40°	1269.7	74.3
0°-60°	1668.8	97.7
0°-90°	1708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1708.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1116	1116	1116	1116	1116	
5°	986	1020	1114	1160	1166	91
15°	843	909	1153	1196	1196	238
25°	772	812	1032	1046	1038	357
35°	756	725	720	679	668	457
45°	510	514	272	261	254	390
55°	227	234	99	98	93	209
65°	53	52	15	13	11	61
75°	13	11	3	2	1	14
85°	4	3	1	0	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8
2.5°	1060.7	1053.9	1041.3	1056.6	1056.6	1048.1	1065.1	1054.8	1063.0	1075.9	1064.5
5°	986.2	980.7	970.1	986.2	988.3	980.4	1000.9	993.3	1005.3	1021.1	1019.6
7.5°	927.3	920.3	910.6	927.3	930.5	925.2	944.9	941.4	957.2	977.7	981.2
10°	888.9	881.6	873.1	888.3	890.6	887.1	907.1	905.0	920.6	944.3	953.7
12.5°	861.6	855.5	846.1	862.2	864.8	859.9	878.6	877.7	893.9	918.8	930.5
15°	842.6	835.2	826.7	840.5	844.0	838.5	856.3	854.6	871.0	895.6	908.8
17.5°	824.7	817.9	809.1	822.0	825.6	819.7	837.3	834.4	848.4	871.9	885.4
20°	808.0	800.6	792.7	805.9	808.0	801.2	818.8	815.0	827.6	849.3	862.5
22.5°	790.7	783.1	774.8	787.7	789.8	783.1	799.2	794.8	806.5	826.2	838.2
25°	771.6	764.6	756.4	768.4	770.2	762.8	779.8	774.3	784.5	801.8	811.8
27.5°	752.6	745.8	736.7	749.0	749.9	742.9	758.4	750.8	759.3	775.1	783.6
30°	749.3	741.7	732.3	742.3	742.6	733.5	748.2	739.1	743.8	755.5	760.5
32.5°	759.6	752.0	742.3	750.5	749.6	739.7	753.7	742.6	744.1	750.2	749.0
35°	755.5	746.4	735.0	743.8	743.8	731.8	745.8	732.6	731.2	732.0	724.7
37.5°	708.9	701.8	691.0	699.5	698.6	689.5	700.4	689.5	684.5	682.5	669.3
40°	640.3	631.8	623.6	632.7	633.5	623.9	637.9	625.6	624.2	618.3	602.8
42.5°	570.8	567.9	560.0	567.6	571.7	563.5	575.2	569.3	570.2	568.7	554.1
45°	510.1	505.1	499.3	508.1	510.7	506.6	518.3	514.8	518.3	525.7	513.6
47.5°	444.7	439.8	433.3	442.7	447.4	439.8	449.7	448.5	453.8	466.4	465.3
50°	365.9	362.4	361.2	362.4	365.3	361.8	368.8	369.1	372.6	389.9	391.1
52.5°	289.7	288.8	284.7	288.5	288.5	282.9	289.9	286.7	290.2	302.0	309.6
55°	226.6	225.7	223.1	226.6	222.8	220.8	222.8	219.6	216.9	226.0	233.9
57.5°	176.5	173.6	170.3	171.8	171.5	167.1	169.5	165.6	163.6	166.8	173.8
60°	125.8	124.9	122.0	123.4	124.6	121.4	123.7	122.0	118.4	121.1	121.4
62.5°	83.6	84.1	82.4	82.7	81.8	81.2	82.7	83.6	82.7	81.5	81.8
65°	53.1	52.8	52.5	52.8	53.4	52.2	53.1	53.6	52.8	52.8	52.5
67.5°	35.2	34.3	33.4	34.0	34.6	33.7	34.6	34.3	34.6	34.3	33.4
70°	23.7	23.5	23.2	23.5	23.5	22.9	23.5	23.2	23.5	23.2	22.3
72.5°	17.3	17.3	17.0	17.3	17.3	16.7	17.0	16.4	16.7	16.4	15.8
75°	12.9	12.9	12.6	12.9	12.6	12.3	12.6	12.3	11.7	11.7	11.1
77.5°	9.4	9.4	9.4	9.4	9.4	9.1	9.1	8.8	8.5	8.2	8.2
80°	7.0	6.7	6.7	6.7	6.7	6.4	6.7	6.4	6.2	5.9	5.6
82.5°	5.0	5.3	5.0	5.0	5.0	4.7	5.0	4.7	4.7	4.4	3.8
85°	3.8	3.8	3.8	3.8	3.8	3.5	3.5	3.5	3.2	3.2	2.9
87.5°	2.1	2.1	2.1	2.3	2.1	2.1	2.1	1.8	1.8	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8
2.5°	1079.7	1081.2	1078.0	1083.0	1102.3	1086.8	1093.2	1095.3	1109.9	1112.6	1110.8
5°	1038.7	1045.1	1049.3	1060.4	1081.8	1070.7	1082.1	1089.4	1108.2	1114.3	1115.8
7.5°	1006.4	1019.9	1029.9	1048.1	1073.3	1064.8	1082.1	1094.1	1117.0	1124.9	1128.7
10°	982.4	1002.9	1020.2	1045.1	1073.6	1068.0	1090.6	1107.6	1133.1	1142.5	1147.2
12.5°	964.2	989.2	1012.3	1044.0	1074.8	1072.1	1099.4	1118.7	1145.7	1155.1	1160.7
15°	944.3	973.0	1000.0	1035.5	1068.6	1068.0	1097.3	1117.9	1145.4	1153.3	1158.6
17.5°	920.6	951.3	980.9	1019.3	1052.2	1052.8	1082.4	1102.6	1129.6	1136.0	1139.5
20°	896.5	927.0	956.6	996.2	1028.4	1029.3	1058.3	1077.1	1102.9	1108.2	1109.1
22.5°	871.0	899.4	929.1	968.3	999.4	1000.0	1028.7	1046.3	1068.3	1070.9	1073.3
25°	842.0	869.8	897.7	936.7	966.3	968.0	994.1	1009.7	1029.9	1032.0	1032.8
27.5°	811.8	834.7	861.3	894.8	924.7	923.5	948.1	965.7	983.9	982.7	982.4
30°	781.3	800.4	816.8	849.0	871.0	871.9	895.0	903.5	922.6	920.3	920.0
32.5°	759.9	764.9	769.3	785.7	806.5	799.2	815.0	825.6	838.8	837.9	838.2
35°	720.6	711.5	698.3	700.7	713.3	701.8	710.3	710.1	723.5	720.3	724.1
37.5°	653.5	627.7	598.4	581.6	584.0	569.6	566.7	573.7	578.4	569.3	572.6
40°	581.9	543.8	498.1	460.0	457.9	440.0	436.8	429.8	438.9	431.3	433.6
42.5°	529.2	478.7	418.6	372.3	362.4	347.4	338.6	337.4	340.1	334.8	333.3
45°	488.7	435.1	366.2	313.1	302.0	285.8	277.0	273.8	274.1	272.4	270.9
47.5°	441.2	387.3	317.5	263.3	250.7	235.4	226.6	224.6	225.7	223.4	221.6
50°	375.5	327.2	263.6	214.0	202.9	191.7	184.7	182.6	182.4	180.6	179.4
52.5°	304.9	264.7	209.6	168.3	158.3	147.5	142.5	139.8	140.1	138.4	136.6
55°	236.0	211.1	162.4	127.2	118.1	109.6	105.0	101.7	100.9	99.1	98.2
57.5°	175.6	158.9	121.7	91.8	86.5	78.3	73.6	69.8	69.2	68.3	68.0
60°	123.1	111.1	85.6	65.4	59.2	54.2	49.5	45.7	44.0	43.7	42.8
62.5°	79.7	72.4	56.3	43.7	39.0	35.5	30.8	28.1	27.0	25.8	26.1
65°	49.5	44.0	35.2	28.1	25.5	22.9	19.3	17.0	15.8	14.7	15.0
67.5°	30.8	27.6	22.3	18.2	16.4	14.4	11.7	10.0	9.1	8.2	7.6
70°	20.8	17.9	15.2	12.9	11.7	10.3	8.5	7.0	6.4	5.9	5.3
72.5°	14.7	13.2	11.1	9.7	8.8	7.6	6.4	5.6	5.0	4.4	3.8
75°	10.6	9.4	8.2	7.0	6.4	5.9	5.0	4.4	3.8	3.2	2.6
77.5°	7.6	6.7	5.9	5.3	5.0	4.1	3.5	3.2	2.9	2.3	1.8
80°	5.3	4.7	3.8	3.5	3.5	2.9	2.6	2.3	2.1	1.5	1.2
82.5°	3.5	3.2	2.9	2.6	2.3	2.1	2.1	1.5	1.2	0.9	0.6
85°	2.6	2.3	2.1	1.8	1.8	1.5	1.2	0.9	0.9	0.6	0.3
87.5°	1.5	1.5	1.2	0.9	0.9	0.6	0.6	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8
2.5°	1125.8	1126.6	1131.6	1127.8	1137.5	1144.5	1141.0	1148.9	1146.3	1145.7	1154.8
5°	1133.4	1135.4	1142.2	1138.7	1149.2	1156.8	1153.3	1162.1	1159.5	1158.9	1168.3
7.5°	1148.1	1150.1	1156.0	1153.0	1164.2	1170.9	1166.5	1176.2	1172.7	1172.4	1181.5
10°	1166.5	1169.5	1174.4	1171.5	1181.8	1187.6	1183.2	1192.6	1189.4	1187.9	1197.9
12.5°	1180.3	1182.4	1187.3	1185.0	1195.0	1199.4	1195.5	1204.6	1200.5	1199.4	1208.2
15°	1177.1	1179.1	1183.2	1181.2	1190.6	1194.7	1189.7	1199.6	1195.5	1193.2	1201.1
17.5°	1156.6	1157.7	1160.7	1158.6	1168.6	1171.2	1165.6	1175.6	1171.8	1167.7	1175.3
20°	1126.4	1125.8	1127.5	1126.6	1134.9	1136.3	1132.8	1140.1	1135.7	1133.4	1137.8
22.5°	1088.8	1088.2	1089.4	1087.1	1095.3	1096.2	1090.9	1099.7	1095.3	1090.9	1098.2
25°	1047.2	1044.0	1043.4	1044.3	1049.8	1050.7	1045.1	1051.6	1046.0	1042.5	1049.5
27.5°	995.9	991.8	990.9	991.8	997.4	993.3	988.6	993.3	987.7	984.5	988.9
30°	932.6	926.7	924.1	922.3	928.2	926.7	915.9	921.1	912.3	907.7	910.9
32.5°	847.3	844.0	837.0	832.9	838.5	827.3	820.6	820.6	817.1	809.1	810.9
35°	728.8	723.8	717.4	713.9	714.7	699.8	688.7	691.0	679.3	677.2	678.1
37.5°	579.0	570.8	568.5	561.1	562.9	549.7	534.4	534.7	528.6	522.1	520.1
40°	435.1	433.6	431.3	425.1	427.4	413.1	407.2	407.5	403.4	398.7	401.1
42.5°	336.3	331.6	330.1	328.1	328.6	326.3	318.7	319.6	316.0	314.9	313.7
45°	273.2	268.2	264.7	266.5	266.5	263.9	260.9	262.7	260.9	258.6	259.7
47.5°	225.2	220.5	218.7	218.4	220.5	218.7	215.8	216.4	216.1	215.2	214.6
50°	179.7	178.5	177.1	176.2	177.1	176.5	173.8	175.3	176.2	173.3	174.1
52.5°	136.9	136.9	136.6	134.6	136.3	134.6	134.3	134.9	134.0	132.8	132.5
55°	100.3	99.4	97.9	97.6	98.2	97.6	97.0	97.3	97.9	95.0	95.0
57.5°	68.6	68.0	67.1	67.1	68.3	66.8	66.0	67.1	66.0	64.8	64.8
60°	44.0	43.7	42.8	42.8	42.8	42.5	41.6	41.9	42.5	40.8	41.0
62.5°	26.4	25.5	25.2	24.9	25.2	24.9	24.9	24.6	24.3	24.3	23.5
65°	14.4	13.8	13.2	13.5	13.5	13.2	13.2	13.2	12.6	12.3	12.0
67.5°	7.3	6.7	6.7	6.4	6.4	6.4	6.4	6.2	6.2	6.2	5.9
70°	4.7	4.4	4.1	4.1	4.1	3.8	3.8	3.8	3.8	3.8	3.5
72.5°	3.2	2.9	2.6	2.6	2.6	2.3	2.3	2.3	2.3	2.1	2.1
75°	2.3	2.1	1.8	1.8	1.8	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	1.5	1.2	1.2	1.2	1.2	0.9	0.9	0.9	0.9	0.9	0.6
80°	0.9	0.9	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3
82.5°	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8
2.5°	1151.6	1149.2	1150.7	1161.5	1156.8	1155.4	1143.1	1153.9
5°	1165.3	1163.6	1163.6	1175.9	1170.3	1169.2	1157.1	1166.5
7.5°	1178.2	1176.5	1176.8	1189.4	1185.0	1183.2	1171.2	1180.6
10°	1195.0	1193.8	1194.1	1206.1	1201.4	1199.6	1187.3	1197.0
12.5°	1204.9	1203.2	1203.2	1216.1	1210.8	1208.2	1196.4	1205.8
15°	1197.3	1194.7	1194.7	1207.6	1201.7	1197.9	1187.6	1196.4
17.5°	1171.2	1168.6	1168.6	1179.7	1175.3	1169.7	1159.2	1167.4
20°	1134.9	1131.6	1130.8	1143.7	1137.5	1132.5	1123.1	1131.0
22.5°	1093.8	1092.3	1089.7	1102.6	1097.0	1091.8	1081.8	1088.0
25°	1044.6	1042.2	1039.6	1052.2	1046.6	1041.3	1033.4	1038.4
27.5°	983.3	983.6	982.1	992.1	986.5	983.6	973.9	982.1
30°	909.1	905.9	904.7	916.4	911.2	907.4	895.3	903.3
32.5°	812.4	807.7	801.5	814.7	805.6	802.4	792.1	803.6
35°	671.7	670.2	664.6	675.8	670.8	664.9	658.5	668.1
37.5°	519.2	520.4	519.8	522.7	519.8	516.0	508.9	505.4
40°	396.4	393.4	391.1	396.4	390.2	390.2	386.1	390.5
42.5°	310.8	309.6	312.5	313.7	310.2	309.6	309.0	308.7
45°	256.5	256.5	257.1	258.3	257.1	256.5	254.8	253.6
47.5°	211.4	212.5	211.4	215.2	213.1	212.5	209.0	210.5
50°	171.2	169.7	171.2	172.4	172.7	170.9	169.2	170.0
52.5°	132.8	130.5	129.9	131.6	130.5	130.5	129.3	129.0
55°	93.5	94.4	92.9	94.4	93.8	92.9	92.1	93.2
57.5°	63.3	63.6	63.0	63.9	62.4	62.7	62.4	62.2
60°	41.0	39.9	39.9	40.8	39.3	39.3	39.0	39.0
62.5°	23.5	23.2	23.2	22.9	22.6	22.6	22.6	22.0
65°	12.0	11.7	11.4	11.4	11.4	11.4	11.1	11.1
67.5°	5.9	5.6	5.6	5.9	5.6	5.6	5.6	5.6
70°	3.5	3.5	3.2	3.5	3.2	3.2	3.2	3.2
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	0.9	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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