

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: P246165

Luminaire Tested: **LSR8B30D010 EC8B309727 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B30D010 EC8B309727 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1932.0 lumens  
Efficiency: N/A  
Efficacy: 71.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

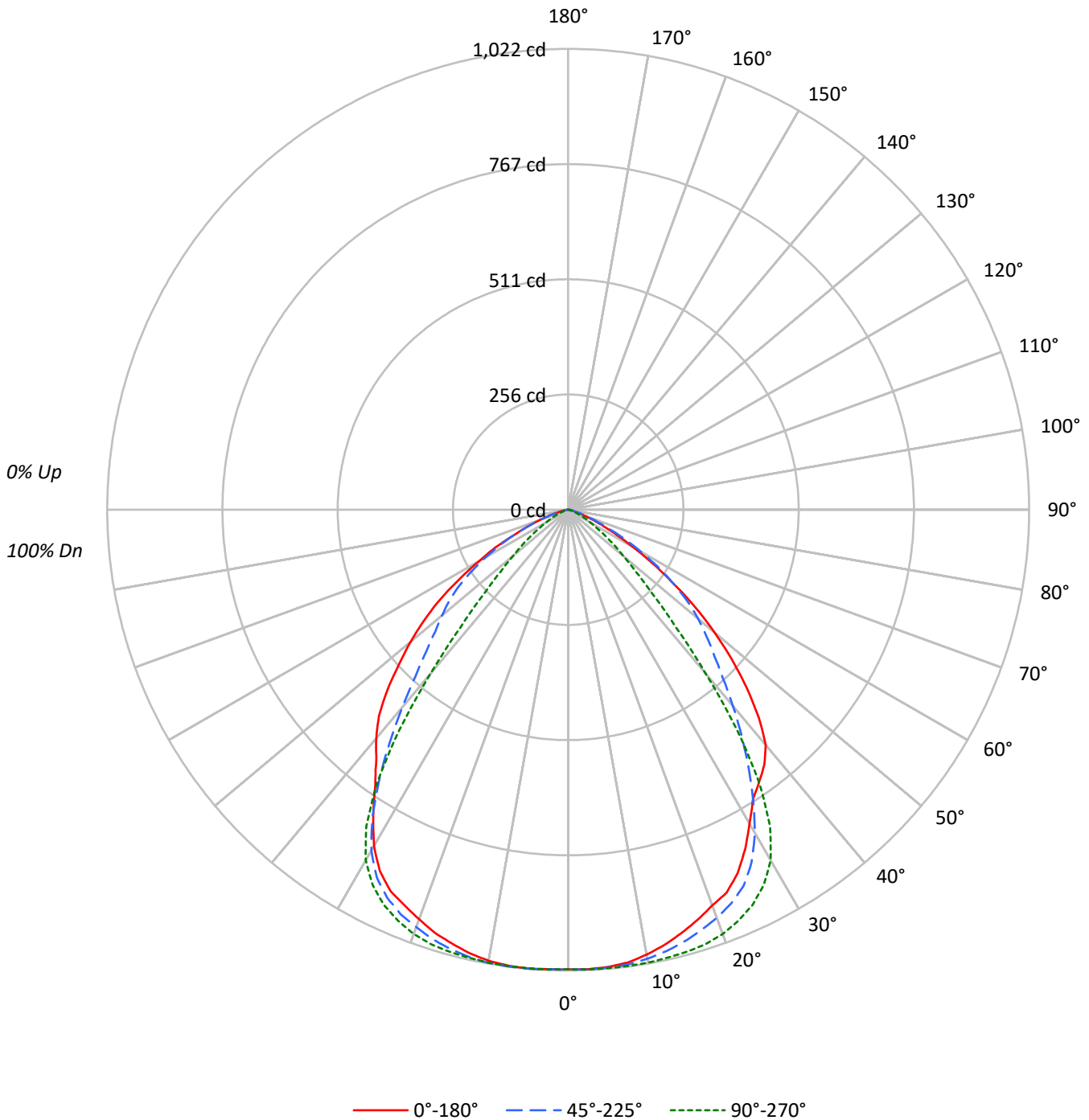
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

**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°	97.3	5.0
10°-20°	282.5	14.6
20°-30°	428.8	22.2
30°-40°	450.4	23.3
40°-50°	337.7	17.5
50°-60°	216.7	11.2
60°-70°	92.7	4.8
70°-80°	21.9	1.1
80°-90°	4.1	0.2
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°	808.6	41.9
0°-40°	1259.0	65.2
0°-60°	1813.4	93.9
0°-90°	1932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1019	1019	1019	1019	1019	
5°	1018	1019	1020	1022	1022	97
15°	972	992	1015	1008	996	274
25°	889	920	967	949	933	406
35°	738	696	738	729	746	463
45°	560	458	263	445	568	429
55°	283	283	98	296	345	257
65°	85	101	31	130	132	91
75°	13	15	4	26	26	19
85°	4	3	2	4	6	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4
2.5°	1019.9	1021.0	1020.5	1020.5	1019.9	1020.5	1020.5	1021.6	1021.6	1020.5	1019.9
5°	1017.7	1018.8	1018.8	1017.7	1017.7	1020.5	1018.8	1019.9	1019.9	1019.4	1019.4
7.5°	1012.8	1012.8	1015.0	1013.3	1013.3	1015.0	1014.4	1015.5	1016.6	1017.2	1017.2
10°	1001.8	1002.9	1003.5	1003.5	1004.0	1005.7	1006.8	1009.0	1010.1	1011.2	1011.7
12.5°	988.2	989.8	990.4	989.8	991.5	993.6	996.4	999.1	1000.8	1002.9	1004.6
15°	971.8	971.8	972.9	974.5	975.6	978.9	981.6	984.9	989.3	992.0	994.7
17.5°	953.7	954.8	956.4	956.4	958.6	964.1	965.7	970.7	975.6	978.3	983.8
20°	934.0	935.1	936.7	937.8	940.6	944.9	948.2	952.6	958.1	963.0	968.5
22.5°	918.7	916.5	917.6	918.7	921.4	925.3	929.1	934.5	940.0	944.9	950.4
25°	889.1	889.7	891.3	892.4	895.7	899.0	903.4	909.9	914.9	920.3	926.3
27.5°	849.2	849.7	852.5	852.5	855.2	860.7	863.4	868.9	875.5	880.9	888.0
30°	803.8	804.9	804.9	807.1	808.7	811.4	814.2	819.6	822.9	827.9	837.7
32.5°	762.2	763.3	762.7	762.2	760.6	760.0	759.5	760.6	761.7	763.3	767.1
35°	737.6	734.8	732.7	728.8	724.4	719.0	714.0	707.5	701.5	696.5	691.1
37.5°	714.0	713.5	710.2	704.7	696.0	686.1	674.7	660.4	646.2	630.9	616.1
40°	681.2	679.6	676.8	669.2	659.3	647.3	632.0	614.5	591.5	568.0	543.9
42.5°	625.4	626.0	622.7	616.6	607.4	595.9	580.0	560.8	536.2	508.3	477.1
45°	560.3	560.3	559.2	554.3	547.7	538.4	526.4	510.5	486.4	458.0	424.6
47.5°	492.4	493.0	491.3	490.3	487.5	481.5	472.7	460.7	443.8	416.4	383.0
50°	423.5	423.5	426.2	425.7	425.7	423.5	419.7	412.6	397.8	375.9	344.7
52.5°	354.6	355.7	357.3	359.5	362.2	366.6	362.2	358.9	349.6	332.7	305.9
55°	283.4	284.5	287.3	291.1	294.4	298.8	299.8	299.8	294.9	283.4	263.2
57.5°	222.7	221.1	223.2	226.5	230.9	235.3	238.6	242.4	241.8	234.2	217.8
60°	167.4	168.0	169.6	172.9	176.2	180.0	184.4	187.7	189.3	185.5	175.1
62.5°	122.0	122.0	124.2	127.5	129.1	134.6	137.3	139.0	140.6	140.1	133.5
65°	85.4	86.4	87.5	89.2	90.8	94.1	95.8	99.0	100.1	100.7	95.8
67.5°	60.2	58.5	59.6	60.7	62.4	64.6	67.9	67.9	69.5	69.5	66.2
70°	38.3	38.3	38.9	40.5	41.6	42.1	43.2	44.3	46.0	45.4	45.4
72.5°	25.7	25.2	25.7	26.3	26.8	28.4	28.4	29.0	30.1	30.6	28.4
75°	13.1	13.7	14.8	14.2	15.9	14.8	15.3	17.0	16.4	15.3	15.3
77.5°	10.9	10.9	10.9	10.4	11.5	11.5	10.9	12.0	11.5	11.5	10.9
80°	7.7	8.2	7.7	7.1	7.7	7.1	7.1	7.1	7.1	7.1	6.6
82.5°	6.0	4.9	5.5	4.9	5.5	5.5	4.9	4.4	4.4	4.9	4.4
85°	4.4	3.3	3.8	3.8	3.3	3.3	3.3	3.3	3.3	2.7	2.7
87.5°	2.7	1.6	1.6	1.6	2.2	2.2	2.2	1.6	2.2	2.2	1.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4
2.5°	1021.0	1020.5	1021.6	1021.0	1021.0	1020.5	1021.0	1020.5	1021.6	1019.4	1019.9
5°	1021.0	1019.9	1020.5	1021.0	1021.6	1020.5	1020.5	1020.5	1021.6	1020.5	1021.0
7.5°	1018.8	1018.3	1019.9	1021.0	1020.5	1019.9	1021.0	1020.5	1021.6	1021.0	1022.1
10°	1014.4	1015.0	1016.1	1017.7	1018.3	1018.8	1019.9	1019.9	1021.6	1019.4	1020.5
12.5°	1007.9	1010.1	1012.8	1013.9	1016.1	1016.1	1017.2	1017.7	1018.8	1018.3	1019.9
15°	999.7	1002.4	1005.7	1008.4	1011.2	1012.8	1014.4	1015.0	1016.6	1015.0	1015.5
17.5°	989.8	993.1	998.0	1001.3	1005.7	1007.3	1009.5	1010.6	1012.3	1011.2	1011.7
20°	976.1	980.0	985.4	990.4	993.1	996.9	999.7	1001.3	1002.4	1001.3	1001.8
22.5°	957.0	962.5	969.6	973.4	978.9	982.2	982.7	986.5	989.3	986.5	987.6
25°	934.5	940.0	945.5	953.7	958.6	962.5	966.3	966.8	969.6	969.0	968.5
27.5°	897.3	904.5	913.8	920.3	926.9	932.9	937.3	938.4	941.1	940.0	940.6
30°	846.5	854.1	862.9	873.3	882.6	888.6	894.1	897.9	900.6	899.0	898.4
32.5°	774.2	781.9	791.2	801.6	812.5	821.3	827.9	832.8	836.1	835.0	832.2
35°	691.6	693.8	699.8	708.0	717.3	726.6	732.7	738.1	741.9	743.0	743.0
37.5°	606.8	599.7	595.3	595.3	600.8	604.6	610.1	613.4	619.4	621.6	623.2
40°	524.7	508.3	493.0	481.5	473.8	473.3	473.3	474.9	480.4	487.5	494.1
42.5°	451.4	425.1	401.6	380.3	365.0	356.2	352.4	352.9	357.3	363.9	374.8
45°	392.9	360.0	330.5	304.8	284.0	270.3	263.7	263.2	266.5	274.1	286.2
47.5°	347.4	312.4	279.0	249.5	227.1	212.3	204.6	202.5	204.6	211.7	226.0
50°	309.7	273.6	239.1	208.5	184.4	169.1	162.0	159.2	162.0	168.0	182.2
52.5°	274.7	237.5	205.2	175.6	149.9	136.8	129.1	127.5	129.1	136.2	147.7
55°	234.2	202.5	170.7	141.2	118.7	105.6	99.6	97.9	99.6	106.2	118.2
57.5°	194.2	166.9	139.0	112.2	93.0	81.5	76.1	73.9	77.7	82.1	96.3
60°	157.0	135.2	111.6	88.1	72.2	61.8	57.4	56.9	58.0	63.5	73.3
62.5°	123.1	105.1	86.4	67.3	54.2	49.8	44.3	43.8	44.9	48.1	55.8
65°	88.6	77.2	62.9	49.2	38.9	32.8	30.6	31.2	32.3	34.5	41.6
67.5°	61.8	53.6	43.8	34.5	26.8	24.1	21.9	21.3	21.9	25.7	29.5
70°	41.6	36.7	29.5	26.3	18.6	14.8	15.3	13.7	15.9	15.9	19.1
72.5°	27.4	24.1	19.7	15.3	13.1	10.4	10.4	9.9	10.9	11.5	14.2
75°	14.2	10.9	10.9	7.7	5.5	2.7	4.9	4.4	3.8	4.4	5.5
77.5°	9.9	8.2	7.7	6.0	5.5	4.4	4.4	4.4	4.4	4.9	5.5
80°	6.0	6.0	4.4	3.8	3.3	2.7	3.3	3.3	3.3	3.3	3.8
82.5°	3.8	3.3	3.3	2.7	2.7	2.2	2.2	2.2	2.2	2.2	3.3
85°	3.3	2.2	2.2	1.6	2.2	3.8	1.6	2.2	2.2	2.2	1.6
87.5°	1.1	1.6	1.6	1.6	1.1	0.5	1.1	1.6	1.6	2.7	2.2
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4	1019.4
2.5°	1021.0	1021.6	1021.6	1021.0	1021.0	1019.9	1022.1	1020.5	1021.0	1023.2	1021.6
5°	1022.1	1022.6	1022.6	1022.1	1022.1	1022.1	1022.6	1022.6	1022.1	1021.6	1022.6
7.5°	1024.3	1023.7	1023.7	1022.6	1022.6	1021.6	1022.6	1021.0	1022.1	1021.0	1022.6
10°	1021.6	1022.1	1021.6	1021.0	1021.0	1020.5	1020.5	1018.8	1019.4	1017.7	1018.8
12.5°	1019.9	1019.4	1019.4	1018.3	1017.2	1016.1	1015.5	1013.9	1013.9	1010.1	1011.7
15°	1015.5	1016.1	1014.4	1012.3	1011.2	1008.4	1007.3	1005.1	1002.9	1000.2	1000.8
17.5°	1011.7	1010.1	1007.9	1005.7	1001.3	999.1	996.9	993.6	992.5	989.3	988.2
20°	1000.2	999.1	996.4	992.5	989.8	984.9	982.7	979.4	976.7	973.4	971.8
22.5°	985.4	984.3	981.1	977.2	972.9	970.7	968.5	962.5	959.7	956.4	955.9
25°	966.8	965.2	961.9	957.5	955.3	949.3	947.1	942.8	941.7	938.4	937.8
27.5°	938.4	936.2	932.4	926.9	923.1	919.2	917.0	913.8	912.7	909.4	908.8
30°	895.7	893.0	885.3	883.1	876.5	872.7	872.7	868.3	868.9	866.7	866.7
32.5°	828.4	824.0	818.0	813.6	809.2	807.1	807.1	805.4	806.5	806.5	807.6
35°	739.2	733.2	729.9	727.2	727.2	729.4	735.9	737.6	740.9	743.6	745.8
37.5°	624.9	624.3	628.1	631.4	639.6	648.9	660.4	670.3	679.6	686.1	692.7
40°	501.2	514.9	525.8	541.1	553.7	571.8	592.6	609.5	625.4	636.9	648.9
42.5°	391.2	408.7	431.7	454.1	476.6	501.2	528.6	552.1	572.9	588.7	601.3
45°	304.8	328.8	356.8	385.2	414.2	444.8	473.3	497.4	519.3	535.7	548.3
47.5°	245.7	271.9	303.7	334.9	367.7	400.0	431.7	452.5	470.6	483.7	495.2
50°	203.0	230.9	264.3	299.8	332.7	365.0	392.3	412.6	427.3	438.8	445.9
52.5°	169.6	199.2	234.7	270.3	303.1	332.7	357.3	372.6	384.7	392.9	399.4
55°	140.1	168.5	201.9	235.3	267.6	295.5	315.7	327.2	336.5	341.4	345.3
57.5°	114.4	140.6	171.3	201.9	229.8	252.8	268.7	280.1	284.5	288.4	287.8
60°	89.7	114.4	142.3	168.5	192.6	211.2	222.7	229.3	232.5	234.2	233.1
62.5°	70.6	93.0	114.4	137.3	154.8	170.7	181.7	181.7	183.3	183.8	185.5
65°	52.5	69.5	88.1	105.1	119.3	129.7	135.7	137.3	139.5	139.0	137.9
67.5°	38.9	51.4	65.1	77.7	87.5	94.1	98.5	102.3	101.8	100.7	100.1
70°	26.8	35.0	47.1	54.7	61.8	68.4	69.5	70.0	70.6	71.1	70.0
72.5°	18.6	24.6	31.2	37.8	42.1	44.9	47.6	48.1	48.1	48.1	47.6
75°	9.3	12.6	18.6	21.3	25.2	26.3	28.4	28.4	30.1	27.9	27.4
77.5°	8.2	9.9	13.1	15.3	17.0	18.6	19.1	20.8	20.2	19.1	19.7
80°	4.9	6.0	8.2	9.3	11.5	12.0	12.6	13.1	12.6	13.1	13.1
82.5°	3.8	4.4	5.5	5.5	7.1	7.1	7.7	7.7	8.2	8.2	8.2
85°	2.2	3.8	3.3	6.6	4.4	4.4	5.5	6.6	5.5	5.5	6.6
87.5°	2.2	2.2	1.6	2.2	2.2	2.2	2.7	3.3	3.3	3.8	3.3
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):**

	165°	170°	175°	180°
0°	1019.4	1019.4	1019.4	1019.4
2.5°	1021.0	1022.1	1020.5	1019.9
5°	1022.6	1022.6	1021.6	1021.6
7.5°	1022.6	1022.6	1021.0	1019.9
10°	1018.3	1018.3	1016.6	1015.5
12.5°	1010.1	1010.1	1009.5	1007.9
15°	999.7	999.7	997.5	995.8
17.5°	985.4	986.5	983.8	983.8
20°	970.1	969.6	967.4	966.3
22.5°	954.3	953.2	952.6	949.3
25°	937.3	936.2	934.5	932.9
27.5°	908.3	907.7	906.1	903.9
30°	864.0	863.4	861.2	861.2
32.5°	806.5	806.0	803.8	804.3
35°	746.9	749.1	748.0	745.8
37.5°	697.1	698.7	699.8	698.7
40°	655.5	660.4	661.0	662.1
42.5°	611.2	617.7	619.9	621.0
45°	558.1	564.1	569.1	568.0
47.5°	503.9	508.3	512.7	509.4
50°	452.0	454.7	456.3	456.3
52.5°	402.7	402.7	402.2	402.7
55°	346.4	346.4	344.2	345.3
57.5°	287.3	288.4	286.7	284.0
60°	232.5	229.8	228.7	227.1
62.5°	181.1	181.1	177.3	182.2
65°	135.7	134.1	132.4	131.9
67.5°	98.5	97.9	96.3	95.8
70°	69.5	67.3	66.8	65.7
72.5°	46.5	46.5	45.4	45.4
75°	28.4	25.7	25.2	25.7
77.5°	19.7	19.1	19.1	18.6
80°	13.1	12.6	13.7	12.0
82.5°	8.2	8.8	8.2	8.8
85°	5.5	6.6	6.0	6.0
87.5°	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0

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