

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: P246171

Luminaire Tested: **LSR8B30D010 EC8B309730 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246171  
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 EC8B309730 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2044.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 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

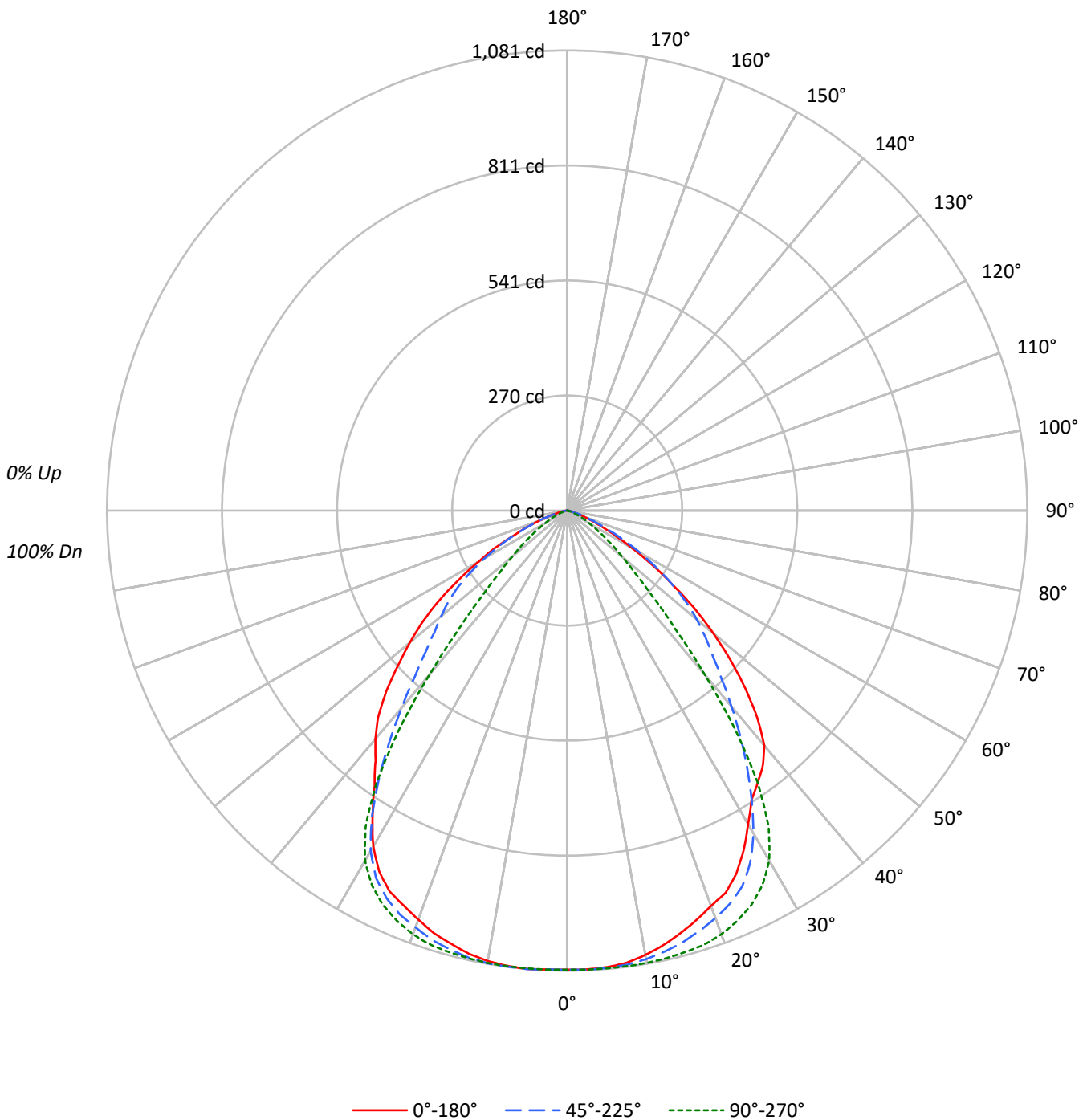
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	102.9	5.0
10°-20°	298.9	14.6
20°-30°	453.7	22.2
30°-40°	476.5	23.3
40°-50°	357.2	17.5
50°-60°	229.2	11.2
60°-70°	98.1	4.8
70°-80°	23.2	1.1
80°-90°	4.3	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°	855.5	41.9
0°-40°	1332.0	65.2
0°-60°	1918.5	93.9
0°-90°	2044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1078	1078	1078	1078	1078	
5°	1077	1078	1080	1081	1081	102
15°	1028	1050	1074	1067	1054	290
25°	941	974	1023	1004	987	430
35°	780	737	781	772	789	490
45°	593	484	278	471	601	454
55°	300	300	104	313	365	272
65°	90	106	33	137	140	96
75°	14	16	5	28	27	20
85°	5	3	2	5	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°	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5
2.5°	1079.0	1080.2	1079.6	1079.6	1079.0	1079.6	1079.6	1080.8	1080.8	1079.6	1079.0
5°	1076.7	1077.9	1077.9	1076.7	1076.7	1079.6	1077.9	1079.0	1079.0	1078.5	1078.5
7.5°	1071.5	1071.5	1073.8	1072.1	1072.1	1073.8	1073.2	1074.4	1075.6	1076.1	1076.1
10°	1059.9	1061.1	1061.7	1061.7	1062.3	1064.0	1065.1	1067.5	1068.6	1069.8	1070.4
12.5°	1045.5	1047.2	1047.8	1047.2	1048.9	1051.2	1054.1	1057.0	1058.8	1061.1	1062.8
15°	1028.1	1028.1	1029.2	1031.0	1032.2	1035.6	1038.5	1042.0	1046.6	1049.5	1052.4
17.5°	1009.0	1010.2	1011.9	1011.9	1014.2	1020.0	1021.7	1026.9	1032.2	1035.0	1040.8
20°	988.2	989.3	991.0	992.2	995.1	999.7	1003.2	1007.8	1013.6	1018.8	1024.6
22.5°	971.9	969.6	970.8	971.9	974.8	978.9	982.9	988.7	994.5	999.7	1005.5
25°	940.7	941.3	943.0	944.1	947.6	951.1	955.7	962.7	967.9	973.7	980.0
27.5°	898.4	899.0	901.9	901.9	904.8	910.6	913.5	919.3	926.2	932.0	939.5
30°	850.4	851.5	851.5	853.9	855.6	858.5	861.4	867.2	870.6	875.8	886.3
32.5°	806.4	807.5	807.0	806.4	804.6	804.1	803.5	804.6	805.8	807.5	811.6
35°	780.3	777.4	775.1	771.1	766.4	760.7	755.4	748.5	742.1	736.9	731.1
37.5°	755.4	754.9	751.4	745.6	736.3	725.9	713.8	698.7	683.7	667.4	651.8
40°	720.7	719.0	716.1	708.0	697.5	684.8	668.6	650.1	625.8	600.9	575.4
42.5°	661.7	662.2	658.8	652.4	642.6	630.4	613.6	593.4	567.3	537.8	504.8
45°	592.8	592.8	591.6	586.4	579.5	569.6	556.9	540.1	514.6	484.5	449.2
47.5°	521.0	521.6	519.8	518.7	515.8	509.4	500.2	487.4	469.5	440.5	405.2
50°	448.1	448.1	450.9	450.4	450.4	448.1	444.0	436.5	420.8	397.7	364.7
52.5°	375.1	376.3	378.0	380.3	383.2	387.8	383.2	379.7	369.9	352.0	323.6
55°	299.9	301.0	303.9	308.0	311.4	316.1	317.2	317.2	312.0	299.9	278.4
57.5°	235.6	233.9	236.2	239.7	244.3	248.9	252.4	256.4	255.9	247.8	230.4
60°	177.1	177.7	179.4	182.9	186.4	190.5	195.1	198.6	200.3	196.2	185.2
62.5°	129.1	129.1	131.4	134.9	136.6	142.4	145.3	147.0	148.8	148.2	141.2
65°	90.3	91.5	92.6	94.4	96.1	99.6	101.3	104.8	105.9	106.5	101.3
67.5°	63.7	61.9	63.1	64.2	66.0	68.3	71.8	71.8	73.5	73.5	70.0
70°	40.5	40.5	41.1	42.8	44.0	44.6	45.7	46.9	48.6	48.0	48.0
72.5°	27.2	26.6	27.2	27.8	28.4	30.1	30.1	30.7	31.8	32.4	30.1
75°	13.9	14.5	15.6	15.1	16.8	15.6	16.2	17.9	17.4	16.2	16.2
77.5°	11.6	11.6	11.6	11.0	12.2	12.2	11.6	12.7	12.2	12.2	11.6
80°	8.1	8.7	8.1	7.5	8.1	7.5	7.5	7.5	7.5	7.5	6.9
82.5°	6.4	5.2	5.8	5.2	5.8	5.8	5.2	4.6	4.6	5.2	4.6
85°	4.6	3.5	4.1	4.1	3.5	3.5	3.5	3.5	3.5	2.9	2.9
87.5°	2.9	1.7	1.7	1.7	2.3	2.3	2.3	1.7	2.3	2.3	1.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5
2.5°	1080.2	1079.6	1080.8	1080.2	1080.2	1079.6	1080.2	1079.6	1080.8	1078.5	1079.0
5°	1080.2	1079.0	1079.6	1080.2	1080.8	1079.6	1079.6	1079.6	1080.8	1079.6	1080.2
7.5°	1077.9	1077.3	1079.0	1080.2	1079.6	1079.0	1080.2	1079.6	1080.8	1080.2	1081.3
10°	1073.2	1073.8	1075.0	1076.7	1077.3	1077.9	1079.0	1079.0	1080.8	1078.5	1079.6
12.5°	1066.3	1068.6	1071.5	1072.7	1075.0	1075.0	1076.1	1076.7	1077.9	1077.3	1079.0
15°	1057.6	1060.5	1064.0	1066.9	1069.8	1071.5	1073.2	1073.8	1075.6	1073.8	1074.4
17.5°	1047.2	1050.7	1055.9	1059.3	1064.0	1065.7	1068.0	1069.2	1070.9	1069.8	1070.4
20°	1032.7	1036.8	1042.6	1047.8	1050.7	1054.7	1057.6	1059.3	1060.5	1059.3	1059.9
22.5°	1012.5	1018.3	1025.8	1029.8	1035.6	1039.1	1039.7	1043.7	1046.6	1043.7	1044.9
25°	988.7	994.5	1000.3	1009.0	1014.2	1018.3	1022.3	1022.9	1025.8	1025.2	1024.6
27.5°	949.4	956.9	966.7	973.7	980.6	987.0	991.6	992.8	995.7	994.5	995.1
30°	895.5	903.6	912.9	923.9	933.7	940.1	945.9	949.9	952.8	951.1	950.5
32.5°	819.1	827.2	837.1	848.1	859.6	868.9	875.8	881.1	884.5	883.4	880.5
35°	731.7	734.0	740.4	749.1	758.9	768.8	775.1	780.9	785.0	786.1	786.1
37.5°	642.0	634.5	629.8	629.8	635.6	639.7	645.5	648.9	655.3	657.6	659.3
40°	555.1	537.8	521.6	509.4	501.3	500.7	500.7	502.5	508.3	515.8	522.7
42.5°	477.6	449.8	424.9	402.3	386.1	376.9	372.8	373.4	378.0	385.0	396.5
45°	415.6	380.9	349.6	322.4	300.4	286.0	279.0	278.4	281.9	290.0	302.8
47.5°	367.6	330.5	295.2	264.0	240.2	224.6	216.5	214.2	216.5	224.0	239.1
50°	327.6	289.4	253.0	220.6	195.1	178.9	171.3	168.5	171.3	177.7	192.8
52.5°	290.6	251.2	217.1	185.8	158.6	144.7	136.6	134.9	136.6	144.1	156.3
55°	247.8	214.2	180.6	149.3	125.6	111.7	105.4	103.6	105.4	112.3	125.0
57.5°	205.5	176.6	147.0	118.7	98.4	86.2	80.5	78.1	82.2	86.8	101.9
60°	166.1	143.0	118.1	93.2	76.4	65.4	60.8	60.2	61.4	67.2	77.6
62.5°	130.3	111.1	91.5	71.2	57.3	52.7	46.9	46.3	47.5	50.9	59.1
65°	93.8	81.6	66.6	52.1	41.1	34.7	32.4	33.0	34.2	36.5	44.0
67.5°	65.4	56.7	46.3	36.5	28.4	25.5	23.2	22.6	23.2	27.2	31.3
70°	44.0	38.8	31.3	27.8	19.7	15.6	16.2	14.5	16.8	16.8	20.3
72.5°	28.9	25.5	20.8	16.2	13.9	11.0	11.0	10.4	11.6	12.2	15.1
75°	15.1	11.6	11.6	8.1	5.8	2.9	5.2	4.6	4.1	4.6	5.8
77.5°	10.4	8.7	8.1	6.4	5.8	4.6	4.6	4.6	4.6	5.2	5.8
80°	6.4	6.4	4.6	4.1	3.5	2.9	3.5	3.5	3.5	3.5	4.1
82.5°	4.1	3.5	3.5	2.9	2.9	2.3	2.3	2.3	2.3	2.3	3.5
85°	3.5	2.3	2.3	1.7	2.3	4.1	1.7	2.3	2.3	2.3	1.7
87.5°	1.2	1.7	1.7	1.7	1.2	0.6	1.2	1.7	1.7	2.9	2.3
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5
2.5°	1080.2	1080.8	1080.8	1080.2	1080.2	1079.0	1081.3	1079.6	1080.2	1082.5	1080.8
5°	1081.3	1081.9	1081.9	1081.3	1081.3	1081.3	1081.9	1081.9	1081.3	1080.8	1081.9
7.5°	1083.7	1083.1	1083.1	1081.9	1081.9	1080.8	1081.9	1080.2	1081.3	1080.2	1081.9
10°	1080.8	1081.3	1080.8	1080.2	1080.2	1079.6	1079.6	1077.9	1078.5	1076.7	1077.9
12.5°	1079.0	1078.5	1078.5	1077.3	1076.1	1075.0	1074.4	1072.7	1072.7	1068.6	1070.4
15°	1074.4	1075.0	1073.2	1070.9	1069.8	1066.9	1065.7	1063.4	1061.1	1058.2	1058.8
17.5°	1070.4	1068.6	1066.3	1064.0	1059.3	1057.0	1054.7	1051.2	1050.1	1046.6	1045.5
20°	1058.2	1057.0	1054.1	1050.1	1047.2	1042.0	1039.7	1036.2	1033.3	1029.8	1028.1
22.5°	1042.6	1041.4	1037.9	1033.9	1029.2	1026.9	1024.6	1018.3	1015.4	1011.9	1011.3
25°	1022.9	1021.1	1017.7	1013.0	1010.7	1004.4	1002.0	997.4	996.3	992.8	992.2
27.5°	992.8	990.5	986.4	980.6	976.6	972.5	970.2	966.7	965.6	962.1	961.5
30°	947.6	944.7	936.6	934.3	927.4	923.3	923.3	918.7	919.3	917.0	917.0
32.5°	876.4	871.8	865.4	860.8	856.2	853.9	853.9	852.1	853.3	853.3	854.4
35°	782.1	775.7	772.2	769.3	769.3	771.6	778.6	780.3	783.8	786.7	789.0
37.5°	661.1	660.5	664.6	668.0	676.7	686.6	698.7	709.1	719.0	725.9	732.9
40°	530.3	544.7	556.3	572.5	585.8	604.9	626.9	644.9	661.7	673.8	686.6
42.5°	413.9	432.4	456.7	480.5	504.2	530.3	559.2	584.1	606.1	622.9	636.2
45°	322.4	347.9	377.4	407.5	438.2	470.6	500.7	526.2	549.4	566.7	580.0
47.5°	259.9	287.7	321.3	354.3	389.0	423.2	456.7	478.7	497.8	511.7	523.9
50°	214.8	244.3	279.6	317.2	352.0	386.1	415.1	436.5	452.1	464.3	471.8
52.5°	179.4	210.7	248.3	286.0	320.7	352.0	378.0	394.2	407.0	415.6	422.6
55°	148.2	178.3	213.6	248.9	283.1	312.6	334.0	346.2	356.0	361.2	365.3
57.5°	121.0	148.8	181.2	213.6	243.1	267.4	284.2	296.4	301.0	305.1	304.5
60°	94.9	121.0	150.5	178.3	203.8	223.4	235.6	242.5	246.0	247.8	246.6
62.5°	74.7	98.4	121.0	145.3	163.8	180.6	192.2	192.2	193.9	194.5	196.2
65°	55.6	73.5	93.2	111.1	126.2	137.2	143.6	145.3	147.6	147.0	145.9
67.5°	41.1	54.4	68.9	82.2	92.6	99.6	104.2	108.3	107.7	106.5	105.9
70°	28.4	37.1	49.8	57.9	65.4	72.4	73.5	74.1	74.7	75.3	74.1
72.5°	19.7	26.0	33.0	39.9	44.6	47.5	50.4	50.9	50.9	50.9	50.4
75°	9.8	13.3	19.7	22.6	26.6	27.8	30.1	30.1	31.8	29.5	28.9
77.5°	8.7	10.4	13.9	16.2	17.9	19.7	20.3	22.0	21.4	20.3	20.8
80°	5.2	6.4	8.7	9.8	12.2	12.7	13.3	13.9	13.3	13.9	13.9
82.5°	4.1	4.6	5.8	5.8	7.5	7.5	8.1	8.1	8.7	8.7	8.7
85°	2.3	4.1	3.5	6.9	4.6	4.6	5.8	6.9	5.8	5.8	6.9
87.5°	2.3	2.3	1.7	2.3	2.3	2.3	2.9	3.5	3.5	4.1	3.5
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):**

	165°	170°	175°	180°
0°	1078.5	1078.5	1078.5	1078.5
2.5°	1080.2	1081.3	1079.6	1079.0
5°	1081.9	1081.9	1080.8	1080.8
7.5°	1081.9	1081.9	1080.2	1079.0
10°	1077.3	1077.3	1075.6	1074.4
12.5°	1068.6	1068.6	1068.0	1066.3
15°	1057.6	1057.6	1055.3	1053.6
17.5°	1042.6	1043.7	1040.8	1040.8
20°	1026.4	1025.8	1023.5	1022.3
22.5°	1009.6	1008.4	1007.8	1004.4
25°	991.6	990.5	988.7	987.0
27.5°	960.9	960.4	958.6	956.3
30°	914.0	913.5	911.2	911.2
32.5°	853.3	852.7	850.4	851.0
35°	790.2	792.5	791.3	789.0
37.5°	737.5	739.2	740.4	739.2
40°	693.5	698.7	699.3	700.5
42.5°	646.6	653.6	655.9	657.0
45°	590.5	596.8	602.0	600.9
47.5°	533.1	537.8	542.4	538.9
50°	478.2	481.0	482.8	482.8
52.5°	426.1	426.1	425.5	426.1
55°	366.4	366.4	364.1	365.3
57.5°	303.9	305.1	303.3	300.4
60°	246.0	243.1	242.0	240.2
62.5°	191.6	191.6	187.6	192.8
65°	143.6	141.8	140.1	139.5
67.5°	104.2	103.6	101.9	101.3
70°	73.5	71.2	70.6	69.5
72.5°	49.2	49.2	48.0	48.0
75°	30.1	27.2	26.6	27.2
77.5°	20.8	20.3	20.3	19.7
80°	13.9	13.3	14.5	12.7
82.5°	8.7	9.3	8.7	9.3
85°	5.8	6.9	6.4	6.4
87.5°	3.5	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)