

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: P857641

Luminaire Tested: **LX4C30D010 EX4C309835 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C30D010 EX4C309835 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

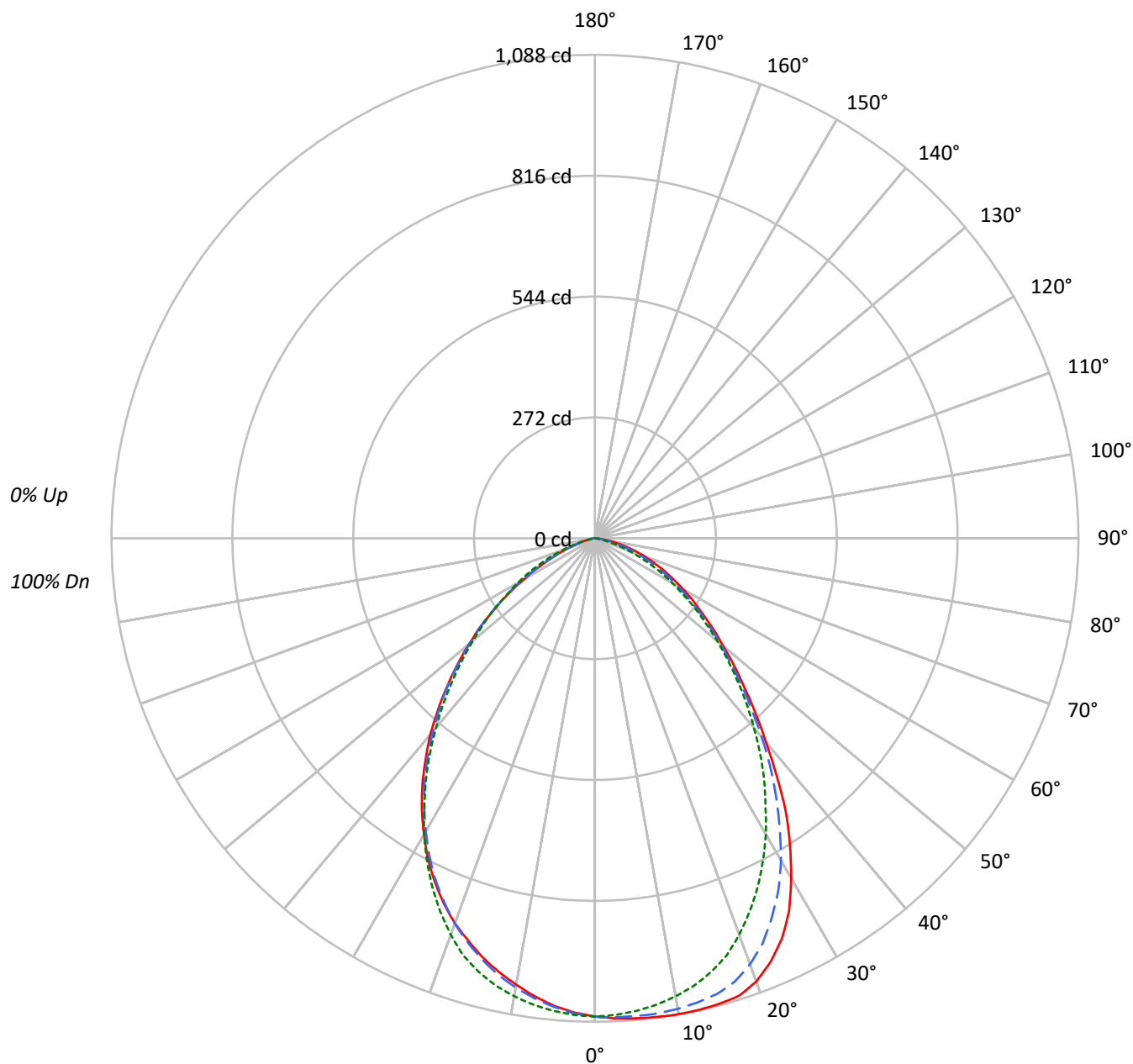
Lumens per Lamp: N/A
Luminaire Lumens: 2028.7 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V):
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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			94
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	75	71			77
4	88	78	70	64	86	77	69	64		74	68	63			72	67	62			70
5	82	71	63	57	80	69	62	57		67	61	56			66	60	55			64
6	76	64	56	51	74	63	56	50		62	55	50			60	54	50			59
7	71	59	51	46	69	58	51	45		57	50	45			55	49	45			54
8	67	54	47	41	65	54	46	41		52	46	41			51	45	41			50
9	62	50	43	38	61	50	42	37		48	42	37			47	41	37			47
10	59	47	39	34	58	46	39	34		45	39	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	132252	132252	132252
5°	133731	131684	130253
10°	135689	130562	127269
15°	137922	128497	124224
20°	138791	124110	120553
25°	134808	117403	115627
30°	125276	109132	109189
35°	112137	99479	101594
40°	96016	89168	92423
45°	82649	78635	81571
50°	71863	68442	70506
55°	63228	58880	58345
60°	56267	49141	45259
65°	49360	39360	32732
70°	42386	27802	22163
75°	34414	16139	12958
80°	24620	7004	6438
85°	9303	2960	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	5.0
10°-20°	287.2	14.2
20°-30°	410.1	20.2
30°-40°	429.0	21.1
40°-50°	359.4	17.7
50°-60°	251.6	12.4
60°-70°	137.0	6.8
70°-80°	47.5	2.3
80°-90°	5.5	0.3
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°	798.7	39.4
0°-40°	1227.7	60.5
0°-60°	1838.7	90.6
0°-90°	2028.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2028.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1076	1076	1076	1076	1076	
5°	1084	1079	1068	1059	1056	104
15°	1084	1062	1010	981	977	306
25°	994	942	866	849	853	454
35°	748	711	663	668	677	464
45°	476	465	453	468	470	370
55°	295	285	275	275	272	267
65°	170	155	135	114	113	169
75°	72	59	34	27	27	78
85°	7	4	2	2	2	12
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°	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5
2.5°	1081.4	1080.2	1080.6	1080.6	1080.6	1080.2	1080.6	1080.2	1080.2	1079.8	1079.0
5°	1084.4	1083.6	1083.6	1083.6	1083.1	1082.7	1082.7	1082.3	1081.4	1081.1	1079.4
7.5°	1086.4	1085.6	1085.6	1085.2	1084.8	1084.4	1083.9	1082.7	1081.4	1080.6	1078.6
10°	1087.7	1086.4	1086.4	1085.6	1084.8	1084.4	1083.6	1081.9	1080.2	1078.1	1075.3
12.5°	1086.9	1085.6	1085.2	1084.4	1082.7	1081.9	1081.1	1079.0	1076.1	1073.2	1069.5
15°	1084.4	1083.6	1082.7	1081.4	1079.4	1078.1	1077.3	1074.0	1070.3	1066.2	1061.6
17.5°	1079.4	1078.1	1076.5	1074.8	1072.0	1070.7	1068.6	1064.5	1059.1	1053.3	1046.3
20°	1061.6	1060.7	1059.1	1056.2	1051.6	1050.0	1047.1	1041.7	1034.7	1027.6	1020.2
22.5°	1032.2	1030.9	1028.4	1025.9	1021.8	1018.9	1016.4	1009.0	1001.2	993.7	986.6
25°	994.5	993.2	989.9	986.6	982.5	977.5	975.0	969.2	961.4	951.8	941.5
27.5°	946.0	941.9	940.7	937.0	930.7	929.1	925.4	917.9	910.5	902.2	893.5
30°	883.1	883.1	880.7	879.0	873.2	871.5	867.4	859.5	855.4	843.8	837.2
32.5°	816.5	815.7	813.5	812.3	809.0	806.1	801.9	797.8	788.7	782.9	773.9
35°	747.7	742.7	743.6	741.1	739.1	735.8	735.3	730.8	722.5	719.2	710.9
37.5°	669.5	667.4	670.3	666.6	664.5	665.0	661.6	658.7	655.4	649.6	647.9
40°	598.7	600.3	600.0	596.7	598.3	596.2	592.9	590.0	588.4	584.6	583.4
42.5°	535.3	532.8	532.0	532.0	532.5	532.5	530.8	528.7	528.7	525.0	521.2
45°	475.7	475.7	474.9	477.3	473.7	473.7	472.4	472.0	470.3	469.5	465.0
47.5°	424.4	423.9	423.6	423.1	422.7	422.7	420.3	418.1	417.8	415.3	412.8
50°	376.0	378.5	377.6	375.5	374.7	375.2	373.5	372.2	371.8	367.7	368.1
52.5°	335.4	334.9	335.7	334.6	332.4	332.9	331.2	329.6	327.9	325.8	324.1
55°	295.2	297.3	296.4	295.2	294.8	294.0	292.8	290.6	290.3	285.7	285.3
57.5°	261.6	261.3	260.4	258.3	258.0	256.7	256.7	255.0	252.5	250.0	248.0
60°	229.0	229.0	227.8	227.3	225.6	225.3	224.8	223.2	220.3	218.2	214.9
62.5°	197.5	198.3	197.5	196.3	195.0	193.3	192.5	191.3	188.8	186.7	183.8
65°	169.8	169.3	168.9	167.3	166.8	165.2	164.8	162.3	159.8	158.2	154.8
67.5°	143.2	142.1	142.1	141.2	140.4	139.1	138.3	135.8	132.9	131.3	128.0
70°	118.0	117.2	117.2	117.2	115.1	113.9	113.4	112.2	108.1	106.4	103.1
72.5°	94.8	94.4	94.0	92.7	91.5	91.5	89.9	87.4	85.3	83.2	80.7
75°	72.5	73.3	72.5	70.8	70.4	69.6	68.3	66.3	64.2	61.7	58.8
77.5°	53.0	52.2	51.4	51.4	50.5	48.9	48.4	46.8	44.3	42.6	39.8
80°	34.8	34.3	33.5	32.7	32.3	31.9	31.5	29.8	27.3	26.1	23.6
82.5°	19.1	18.6	18.6	18.2	16.9	16.9	16.6	14.9	13.6	12.8	11.6
85°	6.6	6.6	6.6	6.2	6.2	6.2	5.8	5.4	5.0	4.5	3.7
87.5°	0.8	0.4	0.8	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4
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°	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5
2.5°	1078.1	1077.3	1076.9	1076.5	1076.1	1075.6	1075.3	1074.4	1074.0	1073.6	1072.8
5°	1078.1	1076.5	1075.6	1074.4	1073.6	1072.8	1071.5	1070.3	1069.0	1067.8	1066.5
7.5°	1076.5	1074.0	1072.3	1069.8	1069.0	1067.8	1065.3	1063.7	1061.6	1059.1	1056.2
10°	1072.3	1069.5	1066.2	1062.8	1061.6	1059.5	1056.2	1053.3	1050.0	1046.6	1043.8
12.5°	1065.7	1061.2	1057.0	1052.4	1050.0	1047.9	1043.3	1039.2	1035.0	1031.4	1026.4
15°	1055.8	1050.4	1045.0	1038.8	1035.9	1033.4	1026.8	1021.8	1015.2	1010.3	1005.3
17.5°	1039.6	1031.4	1024.7	1016.9	1012.8	1009.8	1004.0	996.2	989.9	984.6	978.8
20°	1011.9	1004.0	994.9	986.3	981.6	978.0	969.7	961.4	955.1	949.3	943.2
22.5°	975.5	965.5	958.9	948.1	944.4	939.9	929.9	922.5	915.5	909.7	903.9
25°	931.2	922.5	913.3	903.4	898.9	893.5	885.2	877.3	872.7	866.1	859.1
27.5°	880.2	873.2	862.0	853.3	848.8	844.7	836.7	829.7	823.1	818.5	811.9
30°	826.4	818.1	808.2	799.1	796.6	791.6	784.6	779.2	772.2	769.3	766.4
32.5°	767.2	757.7	750.2	744.4	739.4	735.3	731.6	722.9	721.7	714.2	713.4
35°	702.6	698.5	691.5	686.5	682.4	679.4	673.2	669.1	664.5	663.3	660.4
37.5°	641.8	636.8	630.2	625.6	622.7	622.3	617.7	615.2	611.9	610.3	607.0
40°	578.0	575.9	570.1	569.3	564.7	564.3	561.9	558.9	556.0	556.0	556.4
42.5°	519.2	516.7	514.3	511.3	508.8	508.8	507.6	506.8	506.0	504.7	506.8
45°	464.2	460.9	459.2	456.3	457.5	455.1	454.2	454.2	452.9	452.6	455.4
47.5°	412.8	409.0	407.4	406.5	406.5	407.0	403.2	404.5	404.1	404.9	406.2
50°	366.0	362.7	360.2	360.2	360.6	358.9	357.3	358.6	357.3	358.1	361.1
52.5°	322.5	319.2	318.0	318.0	315.5	315.1	315.9	314.2	314.7	315.1	316.7
55°	282.4	280.3	278.2	276.2	276.5	275.7	274.1	273.7	274.5	274.9	277.0
57.5°	246.4	243.4	240.6	239.7	238.9	238.9	236.8	236.4	237.2	235.2	235.2
60°	212.0	210.4	206.6	205.4	205.4	203.3	201.6	202.4	200.4	200.0	200.4
62.5°	180.1	178.9	176.4	173.9	173.1	172.2	170.1	169.3	168.5	166.8	164.3
65°	152.4	149.5	146.6	144.9	143.7	141.6	140.4	138.7	136.3	135.4	132.9
67.5°	124.7	121.7	118.9	117.6	116.4	115.1	113.1	110.9	108.1	104.8	101.8
70°	100.2	96.5	94.8	91.5	90.7	89.0	86.1	84.1	81.1	77.4	74.5
72.5°	76.6	74.1	71.6	68.8	66.7	65.5	63.0	59.7	56.3	54.2	51.4
75°	55.1	53.9	50.5	47.2	46.4	44.7	41.8	39.8	37.3	34.0	31.5
77.5°	37.3	34.8	32.7	29.8	29.0	27.3	25.7	23.6	21.9	19.9	18.2
80°	21.9	19.9	18.6	16.6	15.7	14.9	13.6	12.0	10.8	9.9	9.5
82.5°	10.8	9.1	8.7	7.5	7.0	6.6	5.8	5.4	4.5	4.5	4.5
85°	3.7	2.9	2.9	2.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.4
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°	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5
2.5°	1072.3	1072.0	1071.5	1071.1	1071.1	1070.7	1070.7	1070.3	1070.3	1069.8	1069.8
5°	1064.9	1063.7	1062.8	1062.0	1062.0	1060.7	1059.9	1059.1	1058.7	1058.7	1057.9
7.5°	1054.6	1052.9	1051.2	1050.0	1049.6	1047.5	1045.8	1045.8	1044.2	1043.3	1042.5
10°	1040.8	1038.0	1035.5	1034.2	1032.6	1031.4	1029.2	1028.0	1026.8	1024.7	1024.3
12.5°	1022.2	1020.2	1016.4	1014.8	1014.0	1011.5	1008.2	1006.5	1006.1	1004.5	1003.2
15°	1001.2	996.6	993.2	991.2	991.2	987.1	985.4	982.9	981.3	980.0	979.6
17.5°	973.8	969.2	965.9	963.1	962.2	958.9	956.4	955.6	953.5	954.3	952.3
20°	938.6	934.9	932.4	928.7	928.7	926.6	925.8	923.7	922.9	922.1	922.9
22.5°	900.9	896.4	892.3	891.8	891.8	888.9	888.5	888.1	886.5	887.7	887.3
25°	856.6	853.3	850.8	850.5	850.5	848.8	847.2	848.0	849.2	848.8	850.0
27.5°	810.7	807.4	806.5	806.1	805.3	804.9	805.7	805.7	806.9	808.6	810.2
30°	761.0	760.1	759.0	758.5	757.7	759.8	760.6	761.8	761.4	763.9	765.6
32.5°	711.3	709.6	709.2	710.1	711.3	710.9	713.4	714.2	715.0	717.9	719.2
35°	661.2	660.8	660.0	660.0	660.4	663.7	663.7	666.6	668.3	669.1	672.4
37.5°	607.4	609.1	609.9	611.1	611.6	612.8	613.6	616.5	618.2	619.8	621.5
40°	558.1	557.2	561.0	558.5	559.4	563.0	564.7	564.3	566.8	569.3	571.0
42.5°	505.5	506.8	507.6	508.5	510.5	510.9	513.0	515.9	516.7	519.6	520.4
45°	454.6	455.1	456.7	458.4	459.6	462.9	463.7	465.0	467.5	467.5	468.7
47.5°	406.5	408.2	408.2	410.7	412.8	412.3	415.3	416.1	415.7	417.8	418.6
50°	360.6	363.1	362.7	364.4	365.2	365.6	368.1	368.9	367.2	369.4	369.7
52.5°	316.7	318.0	319.6	320.0	319.2	321.3	320.5	322.1	321.7	323.3	321.7
55°	276.5	276.2	276.2	277.0	276.2	277.0	277.8	276.2	274.9	276.5	276.2
57.5°	236.4	236.4	235.6	236.8	235.6	234.3	233.9	232.7	231.4	231.4	231.1
60°	198.8	197.9	196.3	195.8	195.8	193.8	193.0	191.3	191.3	189.6	188.0
62.5°	163.5	161.5	160.2	160.2	159.4	157.3	153.6	151.2	150.3	147.9	147.4
65°	130.5	128.3	127.1	124.7	122.5	121.7	118.0	115.1	113.9	111.4	111.8
67.5°	100.2	96.8	93.2	91.5	90.2	87.4	86.1	84.1	82.8	82.8	82.8
70°	72.1	69.1	65.5	64.2	63.3	60.9	59.7	59.2	60.5	60.0	60.5
72.5°	48.4	45.6	43.9	43.1	42.3	41.0	41.8	42.3	41.4	41.8	42.3
75°	29.4	28.5	27.3	26.9	26.9	27.3	26.9	26.9	27.3	27.3	27.7
77.5°	16.9	16.1	16.1	15.7	16.6	16.1	16.1	16.1	16.6	16.6	16.6
80°	9.1	9.1	9.1	9.1	9.5	9.1	9.5	9.5	9.5	9.5	9.5
82.5°	4.5	4.5	4.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P857641

CATALOG NUMBER: LX4C30D010 EX4C309835 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5	1076.5
2.5°	1069.0	1069.0	1069.0	1068.2	1068.6	1068.6	1068.2	1068.2
5°	1057.4	1057.0	1056.2	1056.2	1055.4	1056.2	1055.8	1056.2
7.5°	1041.7	1041.7	1040.5	1040.5	1040.0	1039.6	1039.2	1039.6
10°	1023.1	1023.1	1022.2	1021.8	1022.2	1020.6	1020.6	1020.2
12.5°	1002.4	1001.5	1000.7	1001.2	1000.7	999.5	999.0	999.5
15°	978.3	977.1	977.5	976.3	976.3	975.8	976.7	976.7
17.5°	951.8	951.0	950.2	950.6	949.8	950.2	949.8	949.3
20°	922.5	922.1	922.1	920.4	920.8	920.4	920.8	922.1
22.5°	888.5	888.1	888.5	887.3	888.1	888.1	889.3	889.3
25°	851.3	850.8	851.7	852.1	852.5	853.8	852.5	853.0
27.5°	809.9	811.1	812.3	812.7	814.4	813.2	812.3	813.5
30°	768.1	768.1	767.6	769.3	770.6	771.7	769.7	769.7
32.5°	720.0	722.0	722.0	722.5	723.7	723.7	723.7	725.3
35°	674.1	675.3	675.7	674.1	674.9	674.4	677.4	677.4
37.5°	622.7	622.7	623.1	626.0	626.0	624.8	625.6	625.6
40°	573.8	574.3	572.6	573.5	575.5	574.6	575.5	576.3
42.5°	520.4	523.4	521.7	522.5	522.1	522.5	522.9	522.9
45°	469.5	470.3	470.3	470.8	471.6	472.4	469.9	469.5
47.5°	419.8	420.3	421.5	419.4	421.9	419.4	421.9	419.0
50°	369.7	371.4	370.2	371.0	369.7	369.7	369.4	368.9
52.5°	322.1	321.7	321.7	321.3	321.3	322.1	321.3	322.5
55°	274.5	274.9	274.1	273.7	273.2	274.5	273.2	272.4
57.5°	229.4	230.2	228.6	229.4	226.5	227.8	228.1	228.6
60°	187.5	186.3	186.3	184.7	184.7	185.9	184.2	184.2
62.5°	145.4	146.2	144.9	146.6	146.6	148.2	147.4	148.2
65°	111.4	111.8	112.2	112.2	112.2	114.7	113.9	112.6
67.5°	84.1	84.4	84.9	84.4	85.7	84.9	84.9	85.3
70°	60.9	61.3	61.7	61.7	61.3	61.7	61.7	61.7
72.5°	42.3	42.6	42.3	42.6	43.1	42.6	42.6	43.1
75°	27.7	27.7	27.3	27.3	27.3	27.3	27.7	27.3
77.5°	16.1	16.6	16.1	16.6	16.6	16.6	16.6	16.6
80°	9.5	9.5	9.5	9.1	9.5	9.5	9.5	9.1
82.5°	5.0	5.0	4.5	4.5	5.0	5.0	5.0	5.0
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)