

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: P857614

Luminaire Tested: **LX4C30D010 EX4C309827 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C30D010 EX4C309827 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

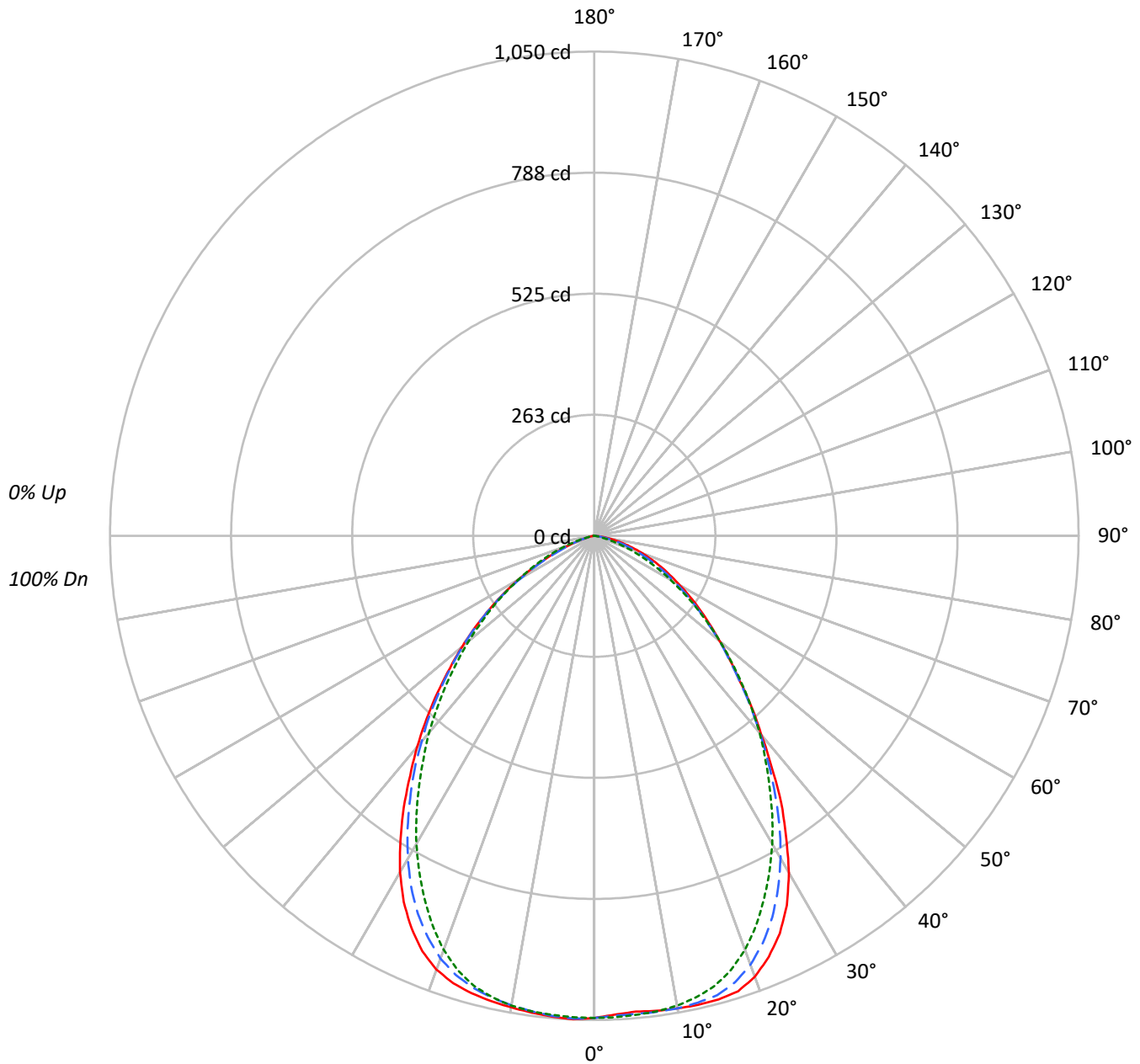
Lumens per Lamp: N/A
Luminaire Lumens: 2004.6 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	109	105	102	99		101	99	96			97	95	93			94
2	103	96	91	86	101	95	89	85		91	87	83			88	84	81			85
3	95	87	80	74	93	85	79	74		82	77	72			80	75	71			77
4	88	78	71	65	86	77	70	65		75	69	64			72	67	63			70
5	82	71	63	57	80	70	63	57		68	61	57			66	60	56			64
6	76	65	57	51	75	64	56	51		62	56	51			61	55	50			59
7	71	59	51	46	70	59	51	46		57	50	46			56	50	45			54
8	67	55	47	42	65	54	47	42		53	46	41			52	46	41			50
9	63	51	43	38	61	50	43	38		49	42	38			48	42	38			47
10	59	47	40	35	58	46	39	35		45	39	35			45	39	35			44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	128468	128468	128468
5°	127738	128613	129094
10°	129851	129065	129552
15°	132389	128497	130647
20°	133052	124894	130856
25°	128966	117945	127204
30°	119701	109444	119488
35°	106003	99284	107998
40°	90355	89408	95775
45°	77645	78514	83430
50°	67773	67926	71519
55°	59887	57360	59287
60°	52483	46807	46611
65°	46453	36279	32296
70°	39620	24964	19181
75°	32040	13433	8781
80°	21932	3325	2193
85°	6625	1128	1128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	5.0
10°-20°	287.7	14.4
20°-30°	415.7	20.7
30°-40°	429.7	21.4
40°-50°	355.1	17.7
50°-60°	245.0	12.2
60°-70°	128.3	6.4
70°-80°	40.4	2.0
80°-90°	3.4	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°	802.7	40.0
0°-40°	1232.4	61.5
0°-60°	1832.5	91.4
0°-90°	2004.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2004.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1046	1046	1046	1046	1046	
5°	1036	1041	1043	1045	1047	99
15°	1041	1031	1010	1015	1027	294
25°	951	913	870	905	938	434
35°	707	683	662	696	720	439
45°	447	445	452	473	480	348
55°	280	271	268	275	277	251
65°	160	145	125	104	111	158
75°	68	53	28	19	18	72
85°	5	2	1	1	1	10
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°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1039.0	1039.3	1039.3	1040.1	1040.1	1040.1	1040.5	1040.5	1040.9	1041.3	1041.7
5°	1035.8	1035.8	1036.6	1037.0	1037.7	1038.2	1039.0	1039.3	1040.1	1040.5	1040.9
7.5°	1039.0	1039.0	1039.3	1039.7	1039.7	1040.1	1040.1	1040.5	1040.9	1041.3	1041.3
10°	1040.9	1040.9	1040.9	1040.9	1041.3	1041.3	1041.3	1040.9	1040.9	1040.9	1040.5
12.5°	1041.7	1041.7	1041.3	1040.9	1041.3	1040.9	1040.9	1039.7	1039.0	1038.2	1037.0
15°	1040.9	1040.9	1040.5	1040.1	1039.7	1039.0	1038.5	1036.6	1035.0	1032.6	1031.1
17.5°	1035.8	1035.0	1034.2	1033.4	1031.8	1030.7	1029.9	1026.4	1023.6	1019.7	1015.3
20°	1017.7	1016.9	1015.8	1013.8	1011.9	1010.3	1007.9	1002.9	1000.1	994.2	989.8
22.5°	988.3	987.5	987.9	984.4	980.5	978.1	976.5	972.2	967.5	960.0	955.3
25°	951.4	949.0	949.0	943.6	941.6	940.0	938.0	932.9	925.9	919.2	912.9
27.5°	903.5	900.3	898.8	898.0	893.3	889.7	887.0	883.1	877.2	871.3	862.7
30°	843.8	843.4	841.4	837.9	834.4	832.8	829.7	823.0	817.5	813.2	807.7
32.5°	773.5	773.1	773.1	773.1	770.7	770.4	765.6	762.1	757.8	751.1	747.6
35°	706.8	706.3	706.8	700.9	699.3	698.1	697.7	695.4	689.5	686.4	683.2
37.5°	631.4	632.5	631.8	630.2	632.2	628.6	631.4	626.3	624.0	623.1	619.6
40°	563.4	566.6	563.4	563.8	565.8	562.2	562.2	561.4	559.9	559.1	558.3
42.5°	505.4	501.4	503.7	501.8	503.7	502.6	500.6	501.8	502.2	500.6	500.3
45°	446.9	447.7	448.4	447.2	447.2	446.0	449.2	447.2	447.2	447.7	444.9
47.5°	399.3	398.2	399.0	398.2	398.5	397.7	398.5	399.0	398.2	398.2	395.8
50°	354.6	353.8	356.5	354.2	354.2	353.8	354.2	353.4	352.2	352.2	353.0
52.5°	315.7	314.2	313.7	315.7	312.9	312.9	313.4	312.6	311.0	310.1	308.2
55°	279.6	279.2	279.6	278.0	277.2	277.2	275.3	274.5	274.0	272.1	270.9
57.5°	245.8	244.6	245.1	244.6	243.1	242.6	241.1	241.1	239.5	237.9	236.0
60°	213.6	213.6	214.8	213.2	212.1	211.3	210.5	209.6	206.9	204.2	201.8
62.5°	184.9	185.3	184.9	183.8	183.0	182.2	181.4	179.1	176.7	175.1	172.4
65°	159.8	159.4	158.2	157.5	155.5	155.5	153.9	152.8	150.0	147.7	144.9
67.5°	133.9	133.1	133.1	133.1	130.7	130.4	129.6	127.3	124.8	121.7	119.4
70°	110.3	111.1	110.0	108.8	107.5	107.2	106.0	103.6	100.9	97.7	95.8
72.5°	87.9	88.7	87.6	87.1	84.8	84.0	83.6	81.7	78.6	76.6	73.4
75°	67.5	68.0	67.1	66.3	64.8	64.4	62.4	60.8	58.9	55.7	53.0
77.5°	48.7	47.9	47.9	46.4	44.8	44.8	44.4	42.0	39.2	36.9	34.5
80°	31.0	30.6	29.4	28.6	27.5	27.1	26.7	24.7	22.7	21.2	19.6
82.5°	15.7	15.3	14.9	14.5	13.7	12.9	13.4	11.8	11.0	9.5	8.2
85°	4.7	5.1	5.1	4.7	4.3	4.3	4.3	3.9	3.1	2.8	2.3
87.5°	0.0	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1042.1	1042.4	1042.9	1043.2	1043.2	1043.7	1044.1	1044.4	1044.9	1044.9	1045.2
5°	1041.3	1042.1	1042.1	1042.4	1042.4	1042.4	1042.9	1042.9	1042.9	1042.9	1043.2
7.5°	1041.7	1041.7	1041.7	1041.3	1041.3	1040.9	1040.9	1040.9	1040.1	1040.1	1040.1
10°	1039.7	1039.3	1039.0	1038.2	1037.7	1037.4	1036.6	1035.8	1035.0	1034.6	1033.8
12.5°	1035.8	1034.2	1032.6	1031.1	1030.3	1029.9	1028.4	1027.2	1025.9	1024.8	1024.0
15°	1027.9	1025.6	1022.8	1019.7	1018.9	1018.1	1015.3	1013.0	1011.4	1010.3	1008.3
17.5°	1012.2	1007.5	1004.4	999.6	997.7	997.0	992.6	990.3	987.5	986.7	985.1
20°	984.4	980.0	974.1	969.9	967.5	965.1	961.6	958.4	955.3	955.3	953.4
22.5°	949.4	943.9	936.4	931.0	930.5	925.9	922.7	919.2	918.0	915.6	915.6
25°	905.5	900.7	892.5	887.7	885.4	884.3	879.2	874.4	872.0	870.1	871.7
27.5°	856.8	849.7	843.4	837.5	835.6	833.2	828.5	826.6	822.2	821.8	821.4
30°	801.0	793.9	787.7	784.9	781.0	779.0	775.5	773.1	771.5	771.5	770.7
32.5°	742.5	736.2	733.1	727.2	725.3	722.5	720.1	717.8	718.6	717.8	718.1
35°	679.2	677.7	671.8	668.3	668.3	667.9	664.0	662.4	661.6	662.0	664.0
37.5°	619.2	614.5	610.6	608.2	610.1	607.8	607.5	607.5	609.8	608.2	611.4
40°	555.2	554.8	553.2	554.0	554.4	551.6	552.4	552.9	554.4	557.5	558.0
42.5°	499.5	499.0	499.0	499.0	498.3	496.7	498.3	501.0	500.6	502.9	504.9
45°	445.7	444.9	446.4	445.2	447.7	448.4	447.2	448.0	450.3	451.9	455.1
47.5°	396.6	396.6	397.0	397.7	395.4	397.4	398.2	399.7	400.9	401.6	403.2
50°	351.0	351.0	350.3	350.3	350.3	351.4	349.8	351.8	352.2	355.4	357.3
52.5°	309.0	307.0	308.2	307.5	305.9	305.1	305.9	306.2	308.6	309.4	311.8
55°	268.9	268.9	265.8	265.0	266.2	265.8	265.5	265.5	266.6	267.8	269.8
57.5°	233.6	231.2	228.9	228.6	227.3	227.8	227.8	227.3	226.6	226.9	227.3
60°	200.3	198.7	195.1	195.1	194.8	194.4	192.4	192.0	190.0	190.5	188.9
62.5°	169.6	168.8	164.2	162.6	162.6	161.4	159.4	159.0	156.2	156.2	154.7
65°	142.1	139.8	137.1	134.3	134.3	132.7	131.5	128.0	126.0	124.8	122.5
67.5°	117.0	113.5	110.8	108.3	106.8	106.4	103.6	101.3	98.2	96.2	92.7
70°	92.7	89.9	87.1	84.8	83.2	81.7	78.9	75.4	73.0	69.5	67.1
72.5°	69.9	67.5	65.2	62.1	60.1	58.9	56.2	53.0	49.0	46.7	43.6
75°	50.3	47.5	44.4	41.6	40.5	39.2	36.1	33.8	31.0	28.3	25.1
77.5°	32.5	29.4	27.1	24.0	23.5	22.7	19.6	17.3	15.3	13.7	11.8
80°	17.3	15.7	13.7	11.8	11.0	9.8	8.2	7.0	5.9	4.7	3.9
82.5°	7.5	6.2	5.1	4.3	3.9	3.6	2.8	2.3	2.0	2.0	1.6
85°	2.0	1.6	1.6	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.4	0.4	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1045.7	1046.0	1046.4	1046.4	1046.8	1047.2	1047.2	1047.6	1048.0	1048.3	1048.3
5°	1043.7	1043.7	1043.7	1044.1	1044.1	1044.1	1044.1	1044.9	1044.9	1045.2	1045.7
7.5°	1039.7	1039.7	1039.7	1039.7	1039.3	1039.7	1039.3	1039.3	1040.1	1040.5	1040.9
10°	1033.4	1033.1	1033.1	1032.6	1032.6	1032.6	1033.1	1033.4	1033.8	1034.2	1035.4
12.5°	1023.6	1023.3	1023.3	1022.8	1022.8	1023.3	1023.6	1024.4	1025.9	1026.8	1028.4
15°	1007.9	1007.5	1007.9	1008.3	1009.1	1010.3	1011.4	1012.7	1015.0	1016.9	1018.9
17.5°	985.1	985.6	985.9	986.7	987.9	989.5	992.6	995.7	998.5	1001.6	1004.8
20°	953.7	955.3	955.7	958.4	959.2	962.7	966.3	971.0	975.3	979.2	983.6
22.5°	916.1	917.2	918.8	922.0	923.9	928.6	932.9	938.4	943.1	948.3	954.5
25°	873.3	873.6	878.4	878.4	883.1	887.0	892.1	898.0	905.0	911.7	916.1
27.5°	824.6	826.6	830.0	831.6	835.1	841.4	845.7	852.9	859.9	865.8	870.5
30°	773.5	775.1	781.0	781.8	784.5	790.0	795.9	802.6	808.1	814.7	819.1
32.5°	719.7	724.0	727.6	730.3	731.1	739.3	742.5	747.2	753.5	760.1	764.5
35°	667.5	669.4	674.6	676.1	678.5	683.2	689.5	693.4	696.5	700.9	706.0
37.5°	612.1	618.1	619.2	624.0	624.7	629.0	632.2	636.9	640.8	644.7	645.5
40°	560.7	562.7	567.0	568.1	568.9	574.8	578.7	579.9	581.9	585.4	590.2
42.5°	508.5	510.4	515.2	514.0	517.5	520.2	522.2	526.9	528.9	530.1	530.1
45°	457.0	457.8	460.9	462.5	464.5	466.1	469.6	472.0	472.7	476.3	477.4
47.5°	408.0	408.8	411.1	413.9	413.1	415.0	418.9	420.1	420.5	422.9	424.0
50°	359.6	361.6	364.8	364.0	366.3	367.5	371.1	371.9	371.9	372.2	372.7
52.5°	314.5	316.1	316.8	317.6	318.8	320.8	322.4	321.6	323.2	324.7	323.5
55°	269.8	270.9	272.9	273.7	273.7	274.0	273.3	276.8	275.3	274.8	275.3
57.5°	228.9	227.3	226.9	228.9	229.7	229.3	228.1	229.7	229.7	228.9	227.8
60°	189.2	188.1	187.7	188.1	186.5	185.3	186.1	185.3	183.3	182.5	183.0
62.5°	153.1	152.0	148.8	148.8	148.0	147.7	144.5	144.9	143.3	141.0	141.8
65°	119.8	116.6	115.0	114.7	111.9	109.5	108.8	106.0	103.6	103.3	103.6
67.5°	89.9	86.4	83.6	82.5	80.9	78.9	76.2	73.8	74.6	74.2	75.8
70°	62.4	60.1	57.3	55.4	56.2	53.8	52.3	52.3	52.6	53.0	53.8
72.5°	41.6	38.5	37.3	36.1	35.3	33.8	34.5	34.5	34.2	34.5	33.8
75°	23.5	22.0	20.8	20.4	19.6	19.6	19.6	19.6	19.3	18.8	18.8
77.5°	10.6	9.8	9.5	9.0	9.0	9.0	8.6	8.2	8.2	8.2	7.8
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	1.6	1.6	2.0	2.0	2.0	1.6	2.0	2.0	1.6	1.6	2.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.0	0.4	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



TEST NUMBER: P857614

CATALOG NUMBER: LX4C30D010 EX4C309827 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1048.8	1049.1	1049.1	1049.1	1049.6	1049.6	1049.6	1049.6
5°	1046.0	1046.4	1046.4	1046.4	1046.8	1046.8	1046.8	1046.8
7.5°	1041.3	1041.7	1041.7	1042.1	1042.1	1042.4	1042.4	1042.9
10°	1035.8	1036.6	1037.0	1037.4	1037.7	1038.2	1038.2	1038.5
12.5°	1029.9	1030.7	1031.1	1031.8	1032.6	1033.1	1033.4	1033.8
15°	1021.3	1022.8	1023.6	1024.0	1025.6	1026.4	1026.8	1027.2
17.5°	1007.5	1010.7	1011.9	1012.7	1014.2	1015.8	1016.9	1017.4
20°	987.9	991.4	993.0	995.0	997.3	999.3	1000.1	1000.9
22.5°	960.4	964.3	966.7	969.1	971.0	973.0	976.1	974.9
25°	921.2	927.9	930.5	931.8	936.1	938.4	940.0	938.4
27.5°	877.2	881.1	883.4	886.2	889.3	891.7	892.5	894.9
30°	824.1	830.8	830.5	833.2	837.1	839.5	840.3	842.3
32.5°	769.2	772.3	774.7	774.3	775.9	780.2	778.6	782.1
35°	710.7	711.1	715.0	714.6	717.8	717.8	717.8	720.1
37.5°	648.3	652.9	651.0	655.7	654.2	655.3	655.3	656.1
40°	591.3	592.9	592.9	594.4	595.7	594.4	595.2	597.2
42.5°	532.5	534.0	534.4	533.6	534.8	538.3	535.6	537.9
45°	477.4	478.6	480.2	479.0	481.0	479.8	481.0	480.2
47.5°	425.6	425.3	424.8	427.9	425.3	425.6	427.2	424.5
50°	372.7	375.0	373.4	374.6	375.3	375.3	374.2	374.2
52.5°	325.5	325.1	324.0	325.1	324.3	324.7	325.5	324.7
55°	276.8	278.4	277.6	277.2	277.6	277.6	279.9	276.8
57.5°	228.9	228.1	229.3	232.0	229.3	231.2	232.5	232.8
60°	183.3	183.3	185.7	184.5	186.9	188.9	190.5	189.7
62.5°	139.8	141.8	142.5	142.9	145.3	146.9	146.9	146.4
65°	103.6	106.4	106.4	108.0	108.8	108.8	109.5	111.1
67.5°	76.6	76.6	77.0	77.8	77.3	77.3	78.1	78.6
70°	53.4	52.6	53.8	53.4	53.4	53.0	53.4	53.4
72.5°	33.8	33.8	34.2	33.8	33.0	33.4	33.4	34.2
75°	18.1	18.8	18.1	18.1	18.5	17.7	18.1	18.5
77.5°	7.5	7.5	7.5	7.5	7.5	7.0	7.0	7.0
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.1	3.1
82.5°	1.6	2.0	1.6	2.0	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.4	0.0	0.4	0.0	0.0	0.0	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)