

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: P857615

Luminaire Tested: **LX4C30D010 EX4C309827 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857615
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 EX4C309827 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

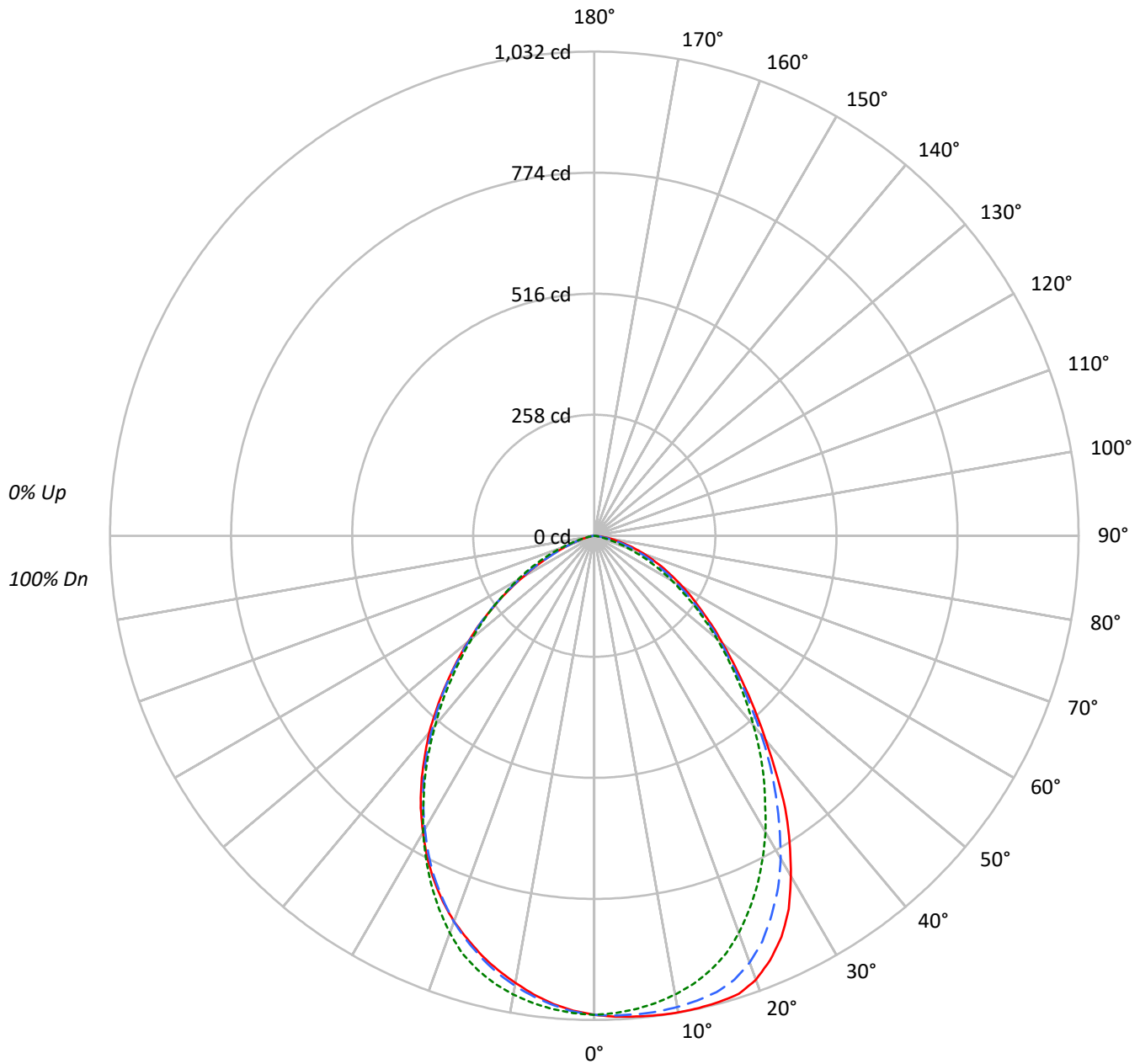
Lumens per Lamp: N/A
Luminaire Lumens: 1924.4 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68		
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39		
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35		
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	125446	125446	125446
5°	126850	124901	123557
10°	128703	123863	120719
15°	130825	121884	117826
20°	131653	117743	114343
25°	127881	111385	109677
30°	118835	103514	103571
35°	106378	94365	96360
40°	91076	84597	87676
45°	78392	74587	77367
50°	68156	64945	66875
55°	59973	55839	55346
60°	53368	46611	42950
65°	46802	37325	31046
70°	40194	26401	21013
75°	32657	15284	12294
80°	23347	6721	6084
85°	8739	2819	2819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	5.0
10°-20°	272.4	14.2
20°-30°	389.0	20.2
30°-40°	406.9	21.1
40°-50°	341.0	17.7
50°-60°	238.6	12.4
60°-70°	129.9	6.8
70°-80°	45.1	2.3
80°-90°	5.2	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°	757.6	39.4
0°-40°	1164.6	60.5
0°-60°	1744.2	90.6
0°-90°	1924.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1924.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1021	1021	1021	1021	1021	
5°	1029	1024	1013	1004	1002	98
15°	1029	1007	958	931	926	290
25°	943	893	822	806	809	431
35°	709	674	629	634	642	440
45°	451	441	429	443	445	351
55°	280	271	261	261	258	253
65°	161	147	128	108	107	160
75°	69	56	32	26	26	74
85°	6	4	2	2	2	11
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°	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1
2.5°	1025.9	1024.7	1025.1	1025.1	1025.1	1024.7	1025.1	1024.7	1024.7	1024.3	1023.5
5°	1028.6	1027.8	1027.8	1027.8	1027.4	1027.0	1027.0	1026.7	1025.9	1025.4	1023.9
7.5°	1030.6	1029.8	1029.8	1029.3	1029.0	1028.6	1028.2	1027.0	1025.9	1025.1	1023.1
10°	1031.7	1030.6	1030.6	1029.8	1029.0	1028.6	1027.8	1026.2	1024.7	1022.6	1020.0
12.5°	1030.9	1029.8	1029.3	1028.6	1027.0	1026.2	1025.4	1023.5	1020.7	1018.0	1014.4
15°	1028.6	1027.8	1027.0	1025.9	1023.9	1022.6	1021.9	1018.7	1015.2	1011.3	1007.0
17.5°	1023.9	1022.6	1021.1	1019.5	1016.8	1015.6	1013.6	1009.7	1004.6	999.1	992.4
20°	1007.0	1006.2	1004.6	1001.9	997.6	996.0	993.2	988.1	981.5	974.8	967.7
22.5°	979.1	977.9	975.6	973.2	969.3	966.6	964.2	957.1	949.6	942.6	935.9
25°	943.4	942.2	939.0	935.9	932.0	927.2	924.9	919.4	912.0	902.9	893.1
27.5°	897.4	893.5	892.3	888.8	882.9	881.3	877.7	870.7	863.7	855.8	847.5
30°	837.7	837.7	835.4	833.8	828.2	826.7	822.8	815.3	811.4	800.4	794.1
32.5°	774.5	773.7	771.7	770.6	767.4	764.7	760.7	756.8	748.2	742.6	734.0
35°	709.3	704.6	705.4	703.0	701.0	697.9	697.5	693.2	685.3	682.2	674.3
37.5°	635.1	633.1	635.8	632.3	630.4	630.7	627.6	624.8	621.7	616.2	614.7
40°	567.9	569.5	569.1	565.9	567.5	565.5	562.4	559.7	558.1	554.6	553.3
42.5°	507.8	505.4	504.6	504.6	505.1	505.1	503.5	501.5	501.5	498.0	494.5
45°	451.2	451.2	450.5	452.8	449.3	449.3	448.1	447.7	446.1	445.3	441.1
47.5°	402.5	402.2	401.7	401.4	401.0	401.0	398.6	396.6	396.3	393.9	391.6
50°	356.6	358.9	358.2	356.3	355.4	355.8	354.3	353.0	352.7	348.8	349.1
52.5°	318.1	317.7	318.5	317.4	315.4	315.8	314.2	312.6	311.0	309.1	307.5
55°	280.0	282.0	281.2	280.0	279.7	278.8	277.7	275.7	275.3	271.0	270.6
57.5°	248.2	247.8	247.0	245.1	244.7	243.5	243.5	241.9	239.6	237.2	235.2
60°	217.2	217.2	216.0	215.6	214.0	213.7	213.2	211.7	208.9	207.0	203.9
62.5°	187.4	188.2	187.4	186.2	184.9	183.4	182.6	181.5	179.1	177.1	174.3
65°	161.0	160.6	160.2	158.6	158.3	156.7	156.3	153.9	151.6	150.0	146.9
67.5°	135.9	134.7	134.7	133.9	133.1	132.0	131.2	128.9	126.1	124.5	121.4
70°	111.9	111.1	111.1	111.1	109.1	108.0	107.6	106.5	102.5	100.9	97.8
72.5°	90.0	89.5	89.2	88.0	86.8	86.8	85.3	82.8	80.9	78.9	76.6
75°	68.8	69.6	68.8	67.1	66.8	66.0	64.8	62.9	60.9	58.5	55.7
77.5°	50.3	49.5	48.7	48.7	47.9	46.4	45.9	44.4	42.0	40.5	37.7
80°	33.0	32.6	31.8	31.0	30.7	30.2	29.9	28.3	25.9	24.7	22.4
82.5°	18.1	17.7	17.7	17.3	16.1	16.1	15.7	14.2	12.9	12.2	11.0
85°	6.2	6.2	6.2	5.9	5.9	5.9	5.5	5.1	4.7	4.3	3.6
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°	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1
2.5°	1022.6	1021.9	1021.5	1021.1	1020.7	1020.3	1020.0	1019.2	1018.7	1018.4	1017.6
5°	1022.6	1021.1	1020.3	1019.2	1018.4	1017.6	1016.4	1015.2	1014.1	1012.8	1011.7
7.5°	1021.1	1018.7	1017.2	1014.8	1014.1	1012.8	1010.5	1008.9	1007.0	1004.6	1001.9
10°	1017.2	1014.4	1011.3	1008.2	1007.0	1005.0	1001.9	999.1	996.0	992.9	990.1
12.5°	1010.9	1006.6	1002.7	998.3	996.0	994.0	989.7	985.7	981.8	978.3	973.6
15°	1001.5	996.3	991.3	985.4	982.6	980.3	974.0	969.3	963.0	958.3	953.5
17.5°	986.2	978.3	972.0	964.6	960.7	957.9	952.4	944.9	939.0	933.9	928.4
20°	959.9	952.4	943.7	935.5	931.2	927.7	919.8	912.0	906.0	900.6	894.7
22.5°	925.3	915.9	909.6	899.4	895.8	891.5	882.1	875.1	868.4	862.8	857.3
25°	883.3	875.1	866.4	857.0	852.6	847.5	839.7	832.2	827.9	821.7	815.0
27.5°	834.9	828.2	817.7	809.4	805.2	801.2	793.7	787.1	780.8	776.4	770.2
30°	783.9	776.1	766.6	758.0	755.7	750.9	744.2	739.2	732.5	729.7	726.9
32.5°	727.8	718.7	711.6	706.2	701.4	697.5	694.0	685.7	684.5	677.5	676.7
35°	666.5	662.6	655.9	651.1	647.2	644.5	638.6	634.7	630.4	629.2	626.4
37.5°	608.7	604.1	597.7	593.5	590.7	590.2	586.0	583.6	580.4	578.9	575.8
40°	548.2	546.3	540.8	540.0	535.7	535.3	532.9	530.2	527.5	527.5	527.8
42.5°	492.5	490.1	487.8	485.0	482.7	482.7	481.5	480.7	479.9	478.8	480.7
45°	440.3	437.1	435.5	432.8	434.0	431.6	430.8	430.8	429.6	429.3	432.0
47.5°	391.6	388.0	386.5	385.7	385.7	386.0	382.6	383.7	383.3	384.1	385.3
50°	347.2	344.0	341.7	341.7	342.1	340.5	339.0	340.1	339.0	339.8	342.4
52.5°	306.0	302.8	301.6	301.6	299.3	298.9	299.6	298.1	298.5	298.9	300.4
55°	267.9	265.9	264.0	262.0	262.4	261.5	260.0	259.6	260.4	260.7	262.7
57.5°	233.6	231.0	228.2	227.4	226.6	226.6	224.6	224.3	225.1	223.1	223.1
60°	201.1	199.5	196.0	194.8	194.8	192.8	191.3	192.1	190.1	189.7	190.1
62.5°	170.9	169.7	167.3	165.0	164.2	163.4	161.4	160.6	159.9	158.3	155.9
65°	144.6	141.8	139.0	137.4	136.3	134.3	133.1	131.5	129.2	128.4	126.1
67.5°	118.2	115.5	112.7	111.6	110.4	109.1	107.2	105.2	102.5	99.3	96.6
70°	95.1	91.5	90.0	86.8	86.1	84.4	81.7	79.7	77.0	73.5	70.7
72.5°	72.7	70.3	68.0	65.2	63.2	62.1	59.7	56.5	53.4	51.5	48.7
75°	52.3	51.1	47.9	44.8	44.0	42.4	39.7	37.7	35.3	32.2	29.9
77.5°	35.3	33.0	31.0	28.3	27.5	25.9	24.3	22.4	20.8	18.8	17.3
80°	20.8	18.8	17.7	15.7	14.9	14.2	12.9	11.4	10.3	9.5	9.0
82.5°	10.3	8.6	8.2	7.0	6.7	6.2	5.5	5.1	4.3	4.3	4.3
85°	3.6	2.8	2.8	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1
2.5°	1017.2	1016.8	1016.4	1016.1	1016.1	1015.6	1015.6	1015.2	1015.2	1014.8	1014.8
5°	1010.2	1008.9	1008.2	1007.4	1007.4	1006.2	1005.4	1004.6	1004.2	1004.2	1003.5
7.5°	1000.3	998.8	997.1	996.0	995.6	993.7	992.1	992.1	990.5	989.7	988.9
10°	987.3	984.6	982.3	981.1	979.5	978.3	976.4	975.2	974.0	972.0	971.6
12.5°	969.7	967.7	964.2	962.6	961.8	959.4	956.3	954.8	954.3	952.8	951.6
15°	949.6	945.3	942.2	940.3	940.3	936.3	934.7	932.4	930.8	929.6	929.2
17.5°	923.8	919.4	916.3	913.5	912.7	909.6	907.3	906.5	904.5	905.3	903.3
20°	890.3	886.8	884.4	881.0	881.0	879.0	878.2	876.2	875.4	874.6	875.4
22.5°	854.6	850.3	846.4	846.0	846.0	843.2	842.8	842.4	840.8	842.1	841.6
25°	812.6	809.4	807.1	806.7	806.7	805.2	803.5	804.4	805.5	805.2	806.3
27.5°	768.9	765.8	765.0	764.7	763.9	763.5	764.3	764.3	765.5	767.0	768.6
30°	721.9	721.1	719.9	719.5	718.7	720.7	721.4	722.7	722.2	724.6	726.1
32.5°	674.7	673.2	672.7	673.5	674.7	674.3	676.7	677.5	678.3	681.0	682.2
35°	627.2	626.8	626.0	626.0	626.4	629.6	629.6	632.3	633.9	634.7	637.8
37.5°	576.2	577.8	578.5	579.7	580.1	581.2	582.0	584.8	586.3	587.9	589.5
40°	529.4	528.6	532.2	529.8	530.6	534.2	535.7	535.3	537.6	540.0	541.6
42.5°	479.6	480.7	481.5	482.3	484.2	484.7	486.6	489.4	490.1	492.9	493.7
45°	431.2	431.6	433.2	434.7	436.0	439.1	439.9	441.1	443.4	443.4	444.6
47.5°	385.7	387.3	387.3	389.6	391.6	391.2	393.9	394.7	394.3	396.3	397.1
50°	342.1	344.4	344.0	345.6	346.4	346.8	349.1	349.9	348.4	350.4	350.7
52.5°	300.4	301.6	303.2	303.5	302.8	304.8	304.0	305.5	305.2	306.8	305.2
55°	262.4	262.0	262.0	262.7	262.0	262.7	263.5	262.0	260.7	262.4	262.0
57.5°	224.3	224.3	223.5	224.6	223.5	222.3	221.9	220.7	219.5	219.5	219.2
60°	188.5	187.7	186.2	185.7	185.7	183.8	183.0	181.5	181.5	179.9	178.3
62.5°	155.2	153.2	152.0	152.0	151.2	149.3	145.7	143.4	142.6	140.2	139.8
65°	123.7	121.7	120.6	118.2	116.3	115.5	111.9	109.1	108.0	105.7	106.0
67.5°	95.1	91.9	88.4	86.8	85.6	82.8	81.7	79.7	78.6	78.6	78.6
70°	68.3	65.5	62.1	60.9	60.1	57.7	56.5	56.2	57.3	57.0	57.3
72.5°	45.9	43.2	41.6	40.8	40.0	38.9	39.7	40.0	39.2	39.7	40.0
75°	27.9	27.1	25.9	25.5	25.5	25.9	25.5	25.5	25.9	25.9	26.3
77.5°	16.1	15.3	15.3	14.9	15.7	15.3	15.3	15.3	15.7	15.7	15.7
80°	8.6	8.6	8.6	8.6	9.0	8.6	9.0	9.0	9.0	9.0	9.0
82.5°	4.3	4.3	4.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.3
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1
2.5°	1014.1	1014.1	1014.1	1013.3	1013.6	1013.6	1013.3	1013.3
5°	1003.0	1002.7	1001.9	1001.9	1001.1	1001.9	1001.5	1001.9
7.5°	988.1	988.1	987.0	987.0	986.5	986.2	985.7	986.2
10°	970.5	970.5	969.7	969.3	969.7	968.1	968.1	967.7
12.5°	950.9	950.1	949.3	949.6	949.3	948.1	947.7	948.1
15°	928.0	926.9	927.2	926.1	926.1	925.7	926.4	926.4
17.5°	902.9	902.1	901.4	901.7	900.9	901.4	900.9	900.6
20°	875.1	874.6	874.6	873.0	873.5	873.0	873.5	874.6
22.5°	842.8	842.4	842.8	841.6	842.4	842.4	843.6	843.6
25°	807.5	807.1	807.8	808.3	808.6	809.8	808.6	809.1
27.5°	768.2	769.4	770.6	770.9	772.5	771.4	770.6	771.7
30°	728.6	728.6	728.1	729.7	730.9	732.0	730.1	730.1
32.5°	683.0	684.9	684.9	685.3	686.6	686.6	686.6	688.1
35°	639.4	640.5	641.0	639.4	640.2	639.7	642.5	642.5
37.5°	590.7	590.7	591.0	593.8	593.8	592.7	593.5	593.5
40°	544.3	544.8	543.2	544.0	545.9	545.1	545.9	546.7
42.5°	493.7	496.4	494.8	495.6	495.3	495.6	496.0	496.0
45°	445.3	446.1	446.1	446.6	447.3	448.1	445.8	445.3
47.5°	398.3	398.6	399.8	397.8	400.2	397.8	400.2	397.4
50°	350.7	352.3	351.1	351.9	350.7	350.7	350.4	349.9
52.5°	305.5	305.2	305.2	304.8	304.8	305.5	304.8	306.0
55°	260.4	260.7	260.0	259.6	259.2	260.4	259.2	258.4
57.5°	217.6	218.4	216.8	217.6	214.8	216.0	216.4	216.8
60°	177.9	176.7	176.7	175.1	175.1	176.3	174.8	174.8
62.5°	137.9	138.7	137.4	139.0	139.0	140.6	139.8	140.6
65°	105.7	106.0	106.5	106.5	106.5	108.8	108.0	106.8
67.5°	79.7	80.1	80.5	80.1	81.3	80.5	80.5	80.9
70°	57.7	58.1	58.5	58.5	58.1	58.5	58.5	58.5
72.5°	40.0	40.5	40.0	40.5	40.8	40.5	40.5	40.8
75°	26.3	26.3	25.9	25.9	25.9	25.9	26.3	25.9
77.5°	15.3	15.7	15.3	15.7	15.7	15.7	15.7	15.7
80°	9.0	9.0	9.0	8.6	9.0	9.0	9.0	8.6
82.5°	4.7	4.7	4.3	4.3	4.7	4.7	4.7	4.7
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)