

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252557

Luminaire Tested: **LE_6B15D010 EC6B10208027 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10208027 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1747.5 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

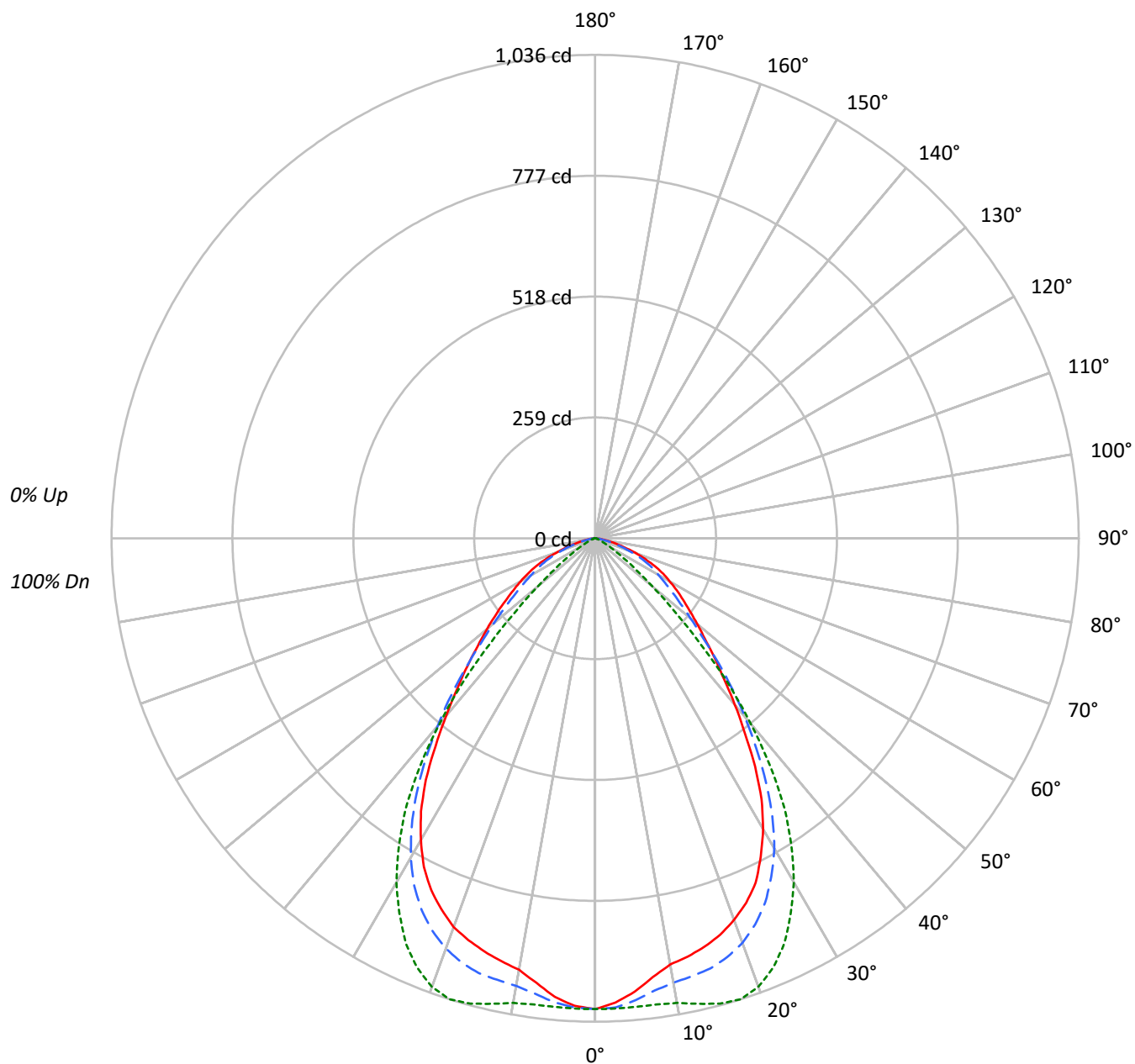
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79		
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70		
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56		
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50		
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46		
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42		
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	65821	65821	65821
5°	63859	66001	64625
10°	61424	66989	62199
15°	61207	69717	61923
20°	60409	71018	61548
25°	58603	69019	59863
30°	54210	64146	56236
35°	47555	56388	50343
40°	39636	44201	42225
45°	33363	29165	35623
50°	28886	15986	30662
55°	26138	8485	26798
60°	24035	4423	24035
65°	21782	2331	21242
70°	17568	1335	16233
75°	12074	882	11192
80°	7890	413	6988
85°	5240	823	4416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	5.4
10°-20°	272.0	15.6
20°-30°	401.9	23.0
30°-40°	406.0	23.2
40°-50°	279.8	16.0
50°-60°	160.7	9.2
60°-70°	93.5	5.4
70°-80°	34.1	2.0
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°	768.1	44.0
0°-40°	1174.1	67.2
0°-60°	1614.6	92.4
0°-90°	1747.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1747.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1009	1009	1009	1009	1009	
5°	975	994	1008	998	987	91
15°	906	954	1032	965	917	255
25°	814	862	959	880	832	371
35°	597	638	708	667	632	371
45°	362	366	316	390	386	281
55°	230	202	75	210	236	207
65°	141	119	15	118	138	138
75°	48	38	4	37	44	54
85°	7	4	1	5	6	9
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°	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9
2.5°	996.1	997.2	998.4	997.2	998.4	1003.1	999.6	1001.9	1001.9	1003.1	1006.6
5°	975.1	975.1	977.4	976.2	979.8	984.4	980.9	984.4	985.6	987.9	993.8
7.5°	948.2	948.2	949.4	949.4	954.1	958.8	956.4	961.1	965.8	970.4	977.4
10°	927.2	929.6	929.6	930.8	935.4	941.2	940.1	945.9	950.6	957.6	966.9
12.5°	918.0	919.1	919.1	921.5	926.1	932.0	930.8	936.6	943.6	951.8	961.1
15°	906.2	908.6	907.5	909.8	914.5	920.2	919.1	925.0	933.1	941.2	954.1
17.5°	891.1	892.2	893.5	893.5	898.1	902.8	902.8	908.6	918.0	927.2	941.2
20°	870.1	872.5	872.5	873.6	877.1	884.1	883.0	888.8	898.1	907.5	922.6
22.5°	845.6	846.8	846.8	848.0	853.8	857.2	858.5	863.1	871.2	881.8	895.8
25°	814.1	815.2	814.1	817.6	820.0	827.0	824.6	830.5	839.8	848.0	862.0
27.5°	768.6	771.0	771.0	772.1	778.0	783.8	783.8	789.6	797.8	803.6	817.6
30°	719.6	723.1	719.6	725.5	727.9	732.5	736.0	739.5	746.5	754.6	767.5
32.5°	663.6	662.5	663.6	666.0	673.0	676.5	678.9	682.4	689.4	696.4	706.9
35°	597.1	599.5	600.6	605.4	605.4	611.1	612.4	614.6	625.1	629.9	638.0
37.5°	527.2	529.5	530.8	533.0	537.8	540.0	543.5	547.0	554.0	562.2	566.9
40°	465.4	465.4	466.5	468.9	472.4	473.5	477.0	481.8	486.4	493.4	498.0
42.5°	407.1	408.2	407.1	409.4	412.9	417.6	416.4	422.2	423.4	428.0	431.5
45°	361.6	361.6	359.2	361.6	361.6	366.2	365.1	367.4	366.2	368.6	366.2
47.5°	318.4	319.6	318.4	319.6	319.6	319.6	320.8	318.4	319.6	316.1	309.1
50°	284.6	285.8	283.4	284.6	283.4	282.2	283.4	279.9	278.8	274.1	267.1
52.5°	255.4	254.2	253.1	253.1	253.1	252.0	250.8	247.2	243.8	239.1	231.0
55°	229.8	228.6	227.5	227.5	225.1	224.0	224.0	220.5	217.0	211.1	201.8
57.5°	206.5	205.2	204.1	204.1	203.0	200.6	200.6	197.1	192.5	185.5	177.2
60°	184.2	184.2	184.2	183.1	183.1	180.8	180.8	177.2	172.6	165.6	156.2
62.5°	164.5	163.2	163.2	163.2	163.2	162.1	161.0	158.6	154.0	147.0	138.8
65°	141.1	141.1	141.1	141.1	140.0	140.0	140.0	136.5	134.1	127.1	119.0
67.5°	115.5	115.5	115.5	115.5	114.2	115.5	115.5	113.1	110.8	103.8	96.8
70°	92.1	91.0	89.8	91.0	89.8	89.8	91.0	88.6	87.5	81.6	74.6
72.5°	67.6	68.9	67.6	67.6	67.6	66.5	67.6	66.5	64.1	59.5	54.9
75°	47.9	49.0	49.0	47.9	47.9	47.9	46.6	46.6	44.4	40.9	38.5
77.5°	32.6	32.6	32.6	32.6	31.5	31.5	31.5	30.4	29.1	26.9	24.5
80°	21.0	21.0	21.0	21.0	19.9	19.9	19.9	18.6	18.6	16.4	14.0
82.5°	12.9	12.9	12.9	12.9	12.9	12.9	11.6	11.6	10.5	9.4	8.1
85°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	5.9	5.9	4.6	3.5
87.5°	2.4	2.4	3.5	3.5	3.5	3.5	3.5	3.5	2.4	2.4	2.4
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°	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9
2.5°	1004.2	1005.4	1005.4	1005.4	1008.9	1010.1	1006.6	1003.1	1010.1	1008.9	1011.2
5°	992.6	996.1	998.4	999.6	1003.1	1005.4	1001.9	1000.8	1006.6	1007.8	1008.9
7.5°	978.6	984.4	990.2	992.6	997.2	999.6	998.4	998.4	1005.4	1007.8	1007.8
10°	969.2	977.4	984.4	990.2	996.1	999.6	999.6	1000.8	1008.9	1011.2	1013.6
12.5°	966.9	977.4	986.8	994.9	999.6	1005.4	1006.6	1010.1	1018.2	1021.8	1021.8
15°	961.1	975.1	986.8	997.2	1004.2	1011.2	1013.6	1020.6	1029.9	1032.2	1034.6
17.5°	950.6	964.6	978.6	991.4	1000.8	1006.6	1013.6	1020.6	1032.2	1035.8	1036.9
20°	932.0	948.2	962.2	975.1	984.4	992.6	999.6	1007.8	1018.2	1022.9	1024.1
22.5°	904.0	920.2	934.2	948.2	957.6	964.6	971.6	980.9	991.4	996.1	996.1
25°	870.1	885.2	900.5	911.0	920.2	928.5	932.0	942.4	952.9	958.8	958.8
27.5°	827.0	841.0	855.0	866.6	872.5	879.5	885.2	894.6	902.8	907.5	912.1
30°	772.1	786.1	799.0	810.6	817.6	824.6	830.5	837.5	845.6	851.5	852.6
32.5°	712.6	724.4	737.1	748.9	755.9	758.1	764.0	771.0	778.0	782.6	783.8
35°	647.4	655.5	663.6	674.1	681.1	681.1	687.0	691.6	697.5	708.0	705.6
37.5°	570.4	582.0	587.9	591.4	596.0	600.6	601.9	607.6	614.6	617.0	620.5
40°	498.0	501.5	505.0	505.0	509.8	509.8	509.8	510.9	517.9	519.0	523.8
42.5°	425.8	425.8	422.2	418.8	419.9	418.8	412.9	412.9	416.4	421.1	421.1
45°	358.1	349.9	339.4	331.2	325.4	323.1	316.1	316.1	314.9	316.1	320.8
47.5°	300.9	286.9	269.4	253.1	247.2	242.6	232.1	227.5	225.1	226.2	228.6
50°	253.1	238.0	218.1	198.2	187.8	182.0	169.1	161.0	159.8	157.5	162.1
52.5°	218.1	199.5	178.5	155.1	144.6	135.2	121.2	114.2	109.6	109.6	110.8
55°	187.8	168.0	144.6	121.2	110.8	103.8	89.8	80.5	75.9	74.6	78.1
57.5°	162.1	143.5	120.1	96.8	86.2	78.1	64.1	56.0	52.5	50.1	51.4
60°	142.2	123.6	100.2	78.1	68.9	59.5	47.9	38.5	33.9	33.9	35.0
62.5°	123.6	106.1	85.1	64.1	56.0	47.9	35.0	26.9	23.4	22.1	23.4
65°	105.0	88.6	71.1	53.6	45.5	38.5	28.0	21.0	16.4	15.1	16.4
67.5°	85.1	72.4	57.1	43.1	36.1	30.4	21.0	15.1	11.6	10.5	11.6
70°	66.5	54.9	43.1	31.5	26.9	22.1	15.1	11.6	8.1	7.0	8.1
72.5°	47.9	39.6	30.4	22.1	18.6	15.1	10.5	8.1	5.9	4.6	5.9
75°	32.6	26.9	19.9	14.0	11.6	10.5	7.0	4.6	3.5	3.5	3.5
77.5°	21.0	16.4	12.9	9.4	7.0	5.9	3.5	2.4	2.4	2.4	2.4
80°	11.6	9.4	7.0	4.6	3.5	3.5	2.4	2.4	1.1	1.1	1.1
82.5°	7.0	4.6	3.5	2.4	2.4	1.1	1.1	1.1	1.1	1.1	1.1
85°	3.5	2.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	1.1	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9
2.5°	1006.6	1007.8	1004.2	1008.9	1005.4	1010.1	1010.1	1005.4	1006.6	1004.2	1008.9
5°	1004.2	1004.2	1001.9	1005.4	1000.8	1005.4	1004.2	996.1	998.4	993.8	998.4
7.5°	1004.2	1001.9	998.4	1001.9	996.1	999.6	994.9	986.8	984.4	978.6	978.6
10°	1007.8	1004.2	999.6	1000.8	994.9	996.1	989.1	977.4	973.9	966.9	964.6
12.5°	1015.9	1012.4	1005.4	1007.8	999.6	999.6	990.2	976.2	969.2	959.9	957.6
15°	1027.6	1021.8	1013.6	1014.8	1006.6	1001.9	990.2	973.9	964.6	951.8	948.2
17.5°	1029.9	1024.1	1013.6	1013.6	1003.1	997.2	983.2	964.6	952.9	940.1	933.1
20°	1017.1	1011.2	999.6	998.4	989.1	980.9	965.8	947.1	935.4	921.5	915.6
22.5°	990.2	983.2	972.8	971.6	962.2	957.6	941.2	922.6	911.0	897.0	892.2
25°	950.6	947.1	936.6	935.4	927.2	921.5	907.5	890.0	879.5	865.5	860.8
27.5°	904.0	900.5	890.0	890.0	880.6	877.1	864.2	848.0	839.8	827.0	821.1
30°	848.0	843.2	837.5	836.2	828.1	824.6	813.0	797.8	789.6	779.1	776.8
32.5°	781.5	778.0	774.5	773.2	765.1	761.6	753.5	738.4	731.4	722.0	718.5
35°	704.5	702.1	698.6	697.5	694.0	690.5	682.4	670.6	667.1	660.1	656.6
37.5°	615.9	618.1	615.9	615.9	612.4	613.5	606.5	599.5	596.0	591.4	589.0
40°	520.2	524.9	528.4	528.4	527.2	531.9	530.8	524.9	523.8	521.4	520.2
42.5°	423.4	425.8	432.8	437.4	436.2	447.9	449.0	453.8	457.2	454.9	456.0
45°	321.9	328.9	338.2	342.9	348.8	363.9	372.1	381.4	389.6	394.2	393.1
47.5°	232.1	240.2	250.8	257.8	268.2	286.9	307.9	319.6	331.2	337.1	342.9
50°	168.0	176.1	189.0	199.5	206.5	232.1	254.2	269.4	282.2	290.4	296.2
52.5°	117.8	127.1	141.1	150.5	161.0	185.5	211.1	228.6	242.6	253.1	258.9
55°	81.6	92.1	105.0	114.2	126.0	151.6	176.1	194.8	210.0	219.2	226.2
57.5°	57.1	66.5	79.4	87.5	99.1	123.6	148.1	166.8	182.0	191.2	199.5
60°	38.5	47.9	60.6	68.9	78.1	102.6	124.8	144.6	158.6	168.0	176.1
62.5°	26.9	35.0	47.9	56.0	64.1	85.1	106.1	123.6	137.6	148.1	155.1
65°	21.0	28.0	38.5	45.5	53.6	71.1	88.6	103.8	117.8	128.2	133.0
67.5°	15.1	22.1	30.4	36.1	42.0	57.1	72.4	84.0	96.8	105.0	110.8
70°	10.5	15.1	22.1	26.9	31.5	43.1	54.9	65.4	74.6	80.5	85.1
72.5°	8.1	10.5	15.1	18.6	22.1	30.4	39.6	47.9	54.9	59.5	64.1
75°	4.6	7.0	10.5	12.9	15.1	21.0	26.9	32.6	37.4	40.9	43.1
77.5°	2.4	3.5	5.9	7.0	9.4	12.9	17.5	21.0	24.5	26.9	29.1
80°	2.4	2.4	3.5	3.5	4.6	7.0	9.4	11.6	14.0	16.4	17.5
82.5°	1.1	1.1	2.4	2.4	2.4	3.5	4.6	7.0	8.1	9.4	10.5
85°	1.1	1.1	1.1	1.1	1.1	2.4	2.4	3.5	4.6	5.9	5.9
87.5°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	2.4	2.4	2.4	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9
2.5°	1005.4	1007.8	1006.6	1008.9	1005.4	1004.2	1006.6	1003.1
5°	992.6	993.8	992.6	992.6	990.2	987.9	990.2	986.8
7.5°	972.8	972.8	969.2	969.2	964.6	962.2	962.2	961.1
10°	956.4	952.9	949.4	950.6	943.6	941.2	940.1	938.9
12.5°	948.2	945.9	940.1	940.1	933.1	930.8	929.6	928.5
15°	938.9	934.2	929.6	928.5	922.6	920.2	919.1	916.8
17.5°	922.6	919.1	913.2	913.2	907.5	906.2	904.0	902.8
20°	905.1	900.5	895.8	895.8	888.8	888.8	885.2	886.5
22.5°	880.6	877.1	872.5	872.5	866.6	865.5	862.0	860.8
25°	851.5	846.8	843.2	842.1	837.5	835.1	834.0	831.6
27.5°	813.0	809.5	806.0	803.6	797.8	796.6	793.1	794.2
30°	765.1	762.9	761.6	759.4	752.4	750.0	750.0	746.5
32.5°	712.6	709.1	706.9	703.4	697.5	696.4	692.9	694.0
35°	648.5	643.9	640.4	641.5	634.5	633.4	631.0	632.1
37.5°	582.0	577.4	572.8	571.5	565.8	565.8	562.2	562.2
40°	513.2	508.5	506.2	506.2	499.2	500.4	496.9	495.8
42.5°	451.4	446.8	445.5	444.4	440.9	439.8	436.2	437.4
45°	393.1	391.9	391.9	389.6	386.1	384.9	386.1	386.1
47.5°	341.8	342.9	341.8	341.8	339.4	341.8	339.4	340.6
50°	298.6	300.9	300.9	300.9	299.8	300.9	300.9	302.1
52.5°	262.4	265.9	264.8	265.9	264.8	267.1	265.9	267.1
55°	231.0	233.2	234.5	235.6	235.6	235.6	235.6	235.6
57.5°	201.8	205.2	206.5	207.6	207.6	210.0	207.6	207.6
60°	178.5	182.0	183.1	184.2	184.2	185.5	183.1	184.2
62.5°	157.5	161.0	161.0	162.1	162.1	162.1	159.8	161.0
65°	136.5	137.6	138.8	138.8	137.6	137.6	136.5	137.6
67.5°	113.1	114.2	113.1	113.1	112.0	112.0	109.6	110.8
70°	87.5	87.5	88.6	87.5	86.2	87.5	86.2	85.1
72.5°	65.4	65.4	65.4	64.1	64.1	63.0	64.1	64.1
75°	44.4	44.4	45.5	45.5	45.5	45.5	44.4	44.4
77.5°	29.1	29.1	29.1	29.1	30.4	29.1	29.1	29.1
80°	18.6	18.6	19.9	19.9	18.6	18.6	18.6	18.6
82.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
85°	7.0	7.0	7.0	7.0	5.9	5.9	5.9	5.9
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	2.4	2.4
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)