

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: P857357

Luminaire Tested: **LX4C25D010 EX4C259030 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857357
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: LX4C25D010 EX4C259030 4LBLWWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

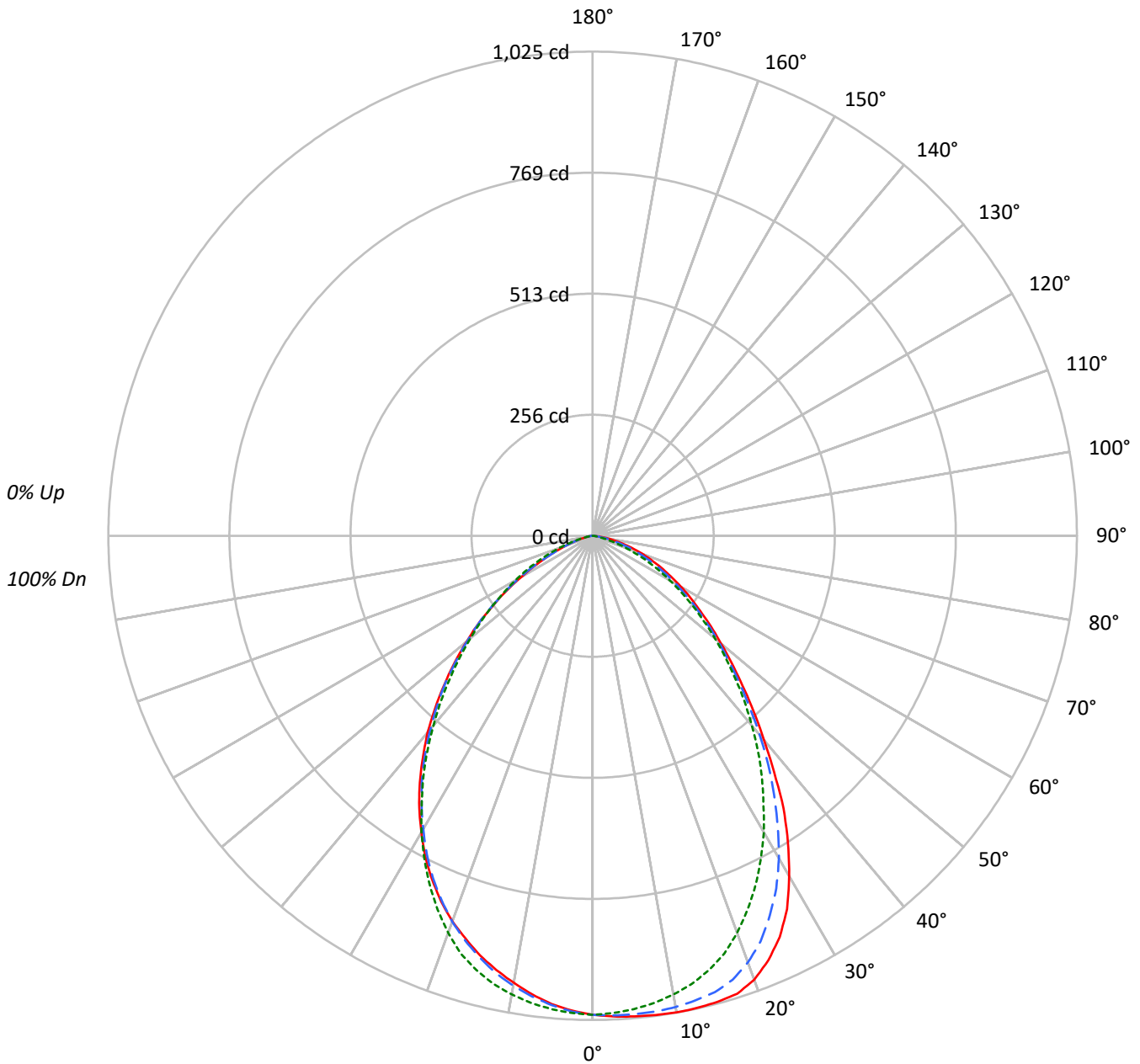
Lumens per Lamp: N/A
Luminaire Lumens: 1911.0 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V):
Input Current (A_{in}): 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68			68
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60			60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53			53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39			39
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35			35
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	124573	124573	124573
5°	125962	124038	122694
10°	127818	122990	119883
15°	129909	121031	117012
20°	130738	116919	113546
25°	126987	110598	108904
30°	118012	102791	102848
35°	105643	93705	95700
40°	90451	84004	87067
45°	77853	74066	76846
50°	67678	64486	66416
55°	59566	55475	54961
60°	52999	46291	42655
65°	46482	37064	30843
70°	39943	26186	20869
75°	32420	15189	12199
80°	23206	6650	6084
85°	8739	2819	2819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	5.0
10°-20°	270.5	14.2
20°-30°	386.3	20.2
30°-40°	404.1	21.1
40°-50°	338.6	17.7
50°-60°	237.0	12.4
60°-70°	129.0	6.8
70°-80°	44.8	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°	752.4	39.4
0°-40°	1156.5	60.5
0°-60°	1732.0	90.6
0°-90°	1911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1911.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1014	1014	1014	1014	1014	
5°	1021	1017	1006	997	995	98
15°	1021	1000	952	924	920	288
25°	937	887	816	800	803	428
35°	704	670	625	630	638	437
45°	448	438	426	440	442	348
55°	278	269	259	259	257	251
65°	160	146	128	107	106	159
75°	68	55	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°	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0
2.5°	1018.7	1017.5	1017.9	1017.9	1017.9	1017.5	1017.9	1017.5	1017.5	1017.1	1016.4
5°	1021.4	1020.7	1020.7	1020.7	1020.3	1019.9	1019.9	1019.5	1018.7	1018.3	1016.8
7.5°	1023.4	1022.6	1022.6	1022.2	1021.8	1021.4	1021.0	1019.9	1018.7	1017.9	1016.0
10°	1024.6	1023.4	1023.4	1022.6	1021.8	1021.4	1020.7	1019.1	1017.5	1015.6	1012.9
12.5°	1023.8	1022.6	1022.2	1021.4	1019.9	1019.1	1018.3	1016.4	1013.6	1010.9	1007.4
15°	1021.4	1020.7	1019.9	1018.7	1016.8	1015.6	1014.8	1011.7	1008.2	1004.3	1000.0
17.5°	1016.8	1015.6	1014.0	1012.5	1009.7	1008.6	1006.6	1002.7	997.6	992.2	985.6
20°	1000.0	999.2	997.6	994.9	990.6	989.1	986.3	981.3	974.6	968.0	961.0
22.5°	972.3	971.1	968.8	966.4	962.5	959.8	957.5	950.5	943.0	936.0	929.4
25°	936.8	935.6	932.5	929.4	925.5	920.8	918.5	913.0	905.6	896.6	886.9
27.5°	891.2	887.3	886.1	882.6	876.7	875.2	871.7	864.6	857.6	849.8	841.6
30°	831.9	831.9	829.5	828.0	822.5	821.0	817.1	809.7	805.8	794.8	788.6
32.5°	769.1	768.3	766.4	765.2	762.1	759.3	755.4	751.5	743.0	737.5	728.9
35°	704.4	699.7	700.5	698.1	696.2	693.0	692.7	688.4	680.6	677.4	669.6
37.5°	630.6	628.7	631.4	627.9	626.0	626.4	623.2	620.5	617.4	611.9	610.4
40°	564.0	565.5	565.1	562.0	563.6	561.6	558.5	555.8	554.2	550.7	549.5
42.5°	504.3	501.9	501.2	501.2	501.6	501.6	500.0	498.0	498.0	494.5	491.0
45°	448.1	448.1	447.3	449.7	446.2	446.2	445.0	444.6	443.1	442.3	438.0
47.5°	399.8	399.4	399.0	398.6	398.2	398.2	395.9	393.9	393.5	391.2	388.8
50°	354.1	356.5	355.7	353.7	353.0	353.3	351.8	350.6	350.2	346.3	346.7
52.5°	315.9	315.5	316.3	315.1	313.2	313.6	312.0	310.4	308.9	306.9	305.4
55°	278.1	280.0	279.2	278.1	277.7	276.9	275.7	273.8	273.4	269.1	268.7
57.5°	246.5	246.1	245.3	243.4	243.0	241.8	241.8	240.2	237.9	235.6	233.6
60°	215.7	215.7	214.5	214.1	212.6	212.2	211.8	210.2	207.5	205.5	202.4
62.5°	186.0	186.8	186.0	184.9	183.7	182.1	181.4	180.2	177.8	175.9	173.2
65°	159.9	159.5	159.1	157.6	157.2	155.6	155.2	152.9	150.5	149.0	145.9
67.5°	134.9	133.8	133.8	133.0	132.2	131.0	130.3	127.9	125.2	123.6	120.5
70°	111.2	110.4	110.4	110.4	108.4	107.3	106.9	105.7	101.8	100.2	97.1
72.5°	89.3	88.9	88.5	87.4	86.2	86.2	84.6	82.3	80.3	78.4	76.1
75°	68.3	69.0	68.3	66.7	66.3	65.5	64.4	62.4	60.5	58.1	55.4
77.5°	49.9	49.1	48.4	48.4	47.6	46.0	45.6	44.1	41.7	40.2	37.4
80°	32.8	32.4	31.6	30.8	30.4	30.0	29.6	28.1	25.7	24.6	22.2
82.5°	17.9	17.6	17.6	17.2	16.0	16.0	15.6	14.0	12.9	12.1	10.9
85°	6.2	6.2	6.2	5.9	5.9	5.9	5.5	5.1	4.7	4.3	3.5
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°	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0
2.5°	1015.6	1014.8	1014.4	1014.0	1013.6	1013.2	1012.9	1012.1	1011.7	1011.3	1010.5
5°	1015.6	1014.0	1013.2	1012.1	1011.3	1010.5	1009.3	1008.2	1007.0	1005.8	1004.7
7.5°	1014.0	1011.7	1010.1	1007.8	1007.0	1005.8	1003.5	1001.9	1000.0	997.6	994.9
10°	1010.1	1007.4	1004.3	1001.2	1000.0	998.0	994.9	992.2	989.1	985.9	983.2
12.5°	1003.9	999.6	995.7	991.4	989.1	987.1	982.8	978.9	975.0	971.5	966.8
15°	994.5	989.5	984.4	978.5	975.8	973.5	967.2	962.5	956.3	951.6	946.9
17.5°	979.3	971.5	965.3	957.9	954.0	951.2	945.8	938.4	932.5	927.4	922.0
20°	953.2	945.8	937.2	929.0	924.7	921.2	913.4	905.6	899.8	894.3	888.4
22.5°	918.9	909.5	903.3	893.1	889.6	885.3	876.0	868.9	862.3	856.8	851.4
25°	877.1	868.9	860.4	851.0	846.7	841.6	833.8	826.4	822.1	815.9	809.3
27.5°	829.2	822.5	812.0	803.8	799.5	795.6	788.2	781.6	775.3	771.0	764.8
30°	778.5	770.7	761.3	752.7	750.4	745.7	739.1	734.0	727.4	724.6	721.9
32.5°	722.7	713.7	706.7	701.2	696.6	692.7	689.1	681.0	679.8	672.8	672.0
35°	661.8	657.9	651.3	646.6	642.7	640.0	634.2	630.3	626.0	624.8	622.1
37.5°	604.5	599.8	593.6	589.3	586.6	586.2	581.9	579.6	576.4	574.9	571.8
40°	544.5	542.5	537.0	536.3	532.0	531.6	529.2	526.5	523.8	523.8	524.2
42.5°	489.1	486.7	484.4	481.7	479.3	479.3	478.2	477.4	476.6	475.4	477.4
45°	437.2	434.1	432.5	429.8	431.0	428.6	427.8	427.8	426.7	426.3	429.0
47.5°	388.8	385.3	383.8	383.0	383.0	383.4	379.9	381.0	380.6	381.4	382.6
50°	344.8	341.6	339.3	339.3	339.7	338.1	336.6	337.7	336.6	337.4	340.1
52.5°	303.8	300.7	299.5	299.5	297.2	296.8	297.6	296.0	296.4	296.8	298.4
55°	266.0	264.0	262.1	260.1	260.5	259.7	258.2	257.8	258.6	259.0	260.9
57.5°	232.1	229.3	226.6	225.8	225.0	225.0	223.1	222.7	223.5	221.5	221.5
60°	199.7	198.1	194.6	193.4	193.4	191.5	189.9	190.7	188.8	188.4	188.8
62.5°	169.7	168.5	166.1	163.8	163.0	162.2	160.3	159.5	158.7	157.2	154.8
65°	143.5	140.8	138.1	136.5	135.3	133.4	132.2	130.7	128.3	127.5	125.2
67.5°	117.4	114.7	111.9	110.8	109.6	108.4	106.5	104.5	101.8	98.7	95.9
70°	94.4	90.9	89.3	86.2	85.4	83.9	81.1	79.2	76.4	72.9	70.2
72.5°	72.2	69.8	67.5	64.7	62.8	61.6	59.3	56.2	53.0	51.1	48.4
75°	51.9	50.7	47.6	44.5	43.7	42.1	39.4	37.4	35.1	32.0	29.6
77.5°	35.1	32.8	30.8	28.1	27.3	25.7	24.2	22.2	20.7	18.7	17.2
80°	20.7	18.7	17.6	15.6	14.8	14.0	12.9	11.3	10.1	9.4	9.0
82.5°	10.1	8.6	8.2	7.0	6.6	6.2	5.5	5.1	4.3	4.3	4.3
85°	3.5	2.7	2.7	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°	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0
2.5°	1010.1	1009.7	1009.3	1009.0	1009.0	1008.6	1008.6	1008.2	1008.2	1007.8	1007.8
5°	1003.1	1001.9	1001.2	1000.4	1000.4	999.2	998.4	997.6	997.3	997.3	996.5
7.5°	993.4	991.8	990.2	989.1	988.7	986.7	985.2	985.2	983.6	982.8	982.0
10°	980.5	977.8	975.4	974.2	972.7	971.5	969.6	968.4	967.2	965.3	964.9
12.5°	962.9	961.0	957.5	955.9	955.1	952.8	949.7	948.1	947.7	946.2	945.0
15°	943.0	938.8	935.6	933.7	933.7	929.8	928.2	925.9	924.3	923.2	922.8
17.5°	917.3	913.0	909.9	907.2	906.4	903.3	900.9	900.1	898.2	899.0	897.0
20°	884.2	880.6	878.3	874.8	874.8	872.8	872.1	870.1	869.3	868.5	869.3
22.5°	848.7	844.4	840.5	840.1	840.1	837.3	837.0	836.6	835.0	836.2	835.8
25°	806.9	803.8	801.5	801.1	801.1	799.5	798.0	798.7	799.9	799.5	800.7
27.5°	763.6	760.5	759.7	759.3	758.6	758.2	759.0	759.0	760.1	761.7	763.2
30°	716.8	716.1	714.9	714.5	713.7	715.7	716.4	717.6	717.2	719.6	721.1
32.5°	670.0	668.5	668.1	668.9	670.0	669.6	672.0	672.8	673.5	676.3	677.4
35°	622.8	622.5	621.7	621.7	622.1	625.2	625.2	627.9	629.5	630.3	633.4
37.5°	572.1	573.7	574.5	575.7	576.0	577.2	578.0	580.7	582.3	583.8	585.4
40°	525.7	525.0	528.5	526.1	526.9	530.4	532.0	531.6	533.9	536.3	537.8
42.5°	476.2	477.4	478.2	478.9	480.9	481.3	483.2	486.0	486.7	489.5	490.2
45°	428.2	428.6	430.2	431.7	432.9	436.0	436.8	438.0	440.3	440.3	441.5
47.5°	383.0	384.5	384.5	386.9	388.8	388.4	391.2	392.0	391.6	393.5	394.3
50°	339.7	342.0	341.6	343.2	344.0	344.4	346.7	347.5	345.9	347.9	348.3
52.5°	298.4	299.5	301.1	301.5	300.7	302.6	301.9	303.4	303.0	304.6	303.0
55°	260.5	260.1	260.1	260.9	260.1	260.9	261.7	260.1	259.0	260.5	260.1
57.5°	222.7	222.7	221.9	223.1	221.9	220.7	220.4	219.2	218.0	218.0	217.6
60°	187.2	186.4	184.9	184.5	184.5	182.5	181.7	180.2	180.2	178.6	177.1
62.5°	154.1	152.1	150.9	150.9	150.2	148.2	144.7	142.4	141.6	139.2	138.8
65°	122.9	120.9	119.7	117.4	115.4	114.7	111.2	108.4	107.3	104.9	105.3
67.5°	94.4	91.3	87.8	86.2	85.0	82.3	81.1	79.2	78.0	78.0	78.0
70°	67.9	65.1	61.6	60.5	59.7	57.3	56.2	55.8	56.9	56.6	56.9
72.5°	45.6	42.9	41.3	40.6	39.8	38.6	39.4	39.8	39.0	39.4	39.8
75°	27.7	26.9	25.7	25.4	25.4	25.7	25.4	25.4	25.7	25.7	26.1
77.5°	16.0	15.2	15.2	14.8	15.6	15.2	15.2	15.2	15.6	15.6	15.6
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	0.8	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°	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0
2.5°	1007.0	1007.0	1007.0	1006.2	1006.6	1006.6	1006.2	1006.2
5°	996.1	995.7	994.9	994.9	994.1	994.9	994.5	994.9
7.5°	981.3	981.3	980.1	980.1	979.7	979.3	978.9	979.3
10°	963.7	963.7	962.9	962.5	962.9	961.4	961.4	961.0
12.5°	944.2	943.4	942.7	943.0	942.7	941.5	941.1	941.5
15°	921.6	920.4	920.8	919.6	919.6	919.3	920.0	920.0
17.5°	896.6	895.9	895.1	895.5	894.7	895.1	894.7	894.3
20°	868.9	868.5	868.5	867.0	867.4	867.0	867.4	868.5
22.5°	837.0	836.6	837.0	835.8	836.6	836.6	837.7	837.7
25°	801.9	801.5	802.2	802.6	803.0	804.2	803.0	803.4
27.5°	762.9	764.0	765.2	765.6	767.1	766.0	765.2	766.4
30°	723.5	723.5	723.1	724.6	725.8	727.0	725.0	725.0
32.5°	678.2	680.2	680.2	680.6	681.7	681.7	681.7	683.3
35°	634.9	636.1	636.5	634.9	635.7	635.3	638.1	638.1
37.5°	586.6	586.6	587.0	589.7	589.7	588.5	589.3	589.3
40°	540.6	540.9	539.4	540.2	542.1	541.3	542.1	542.9
42.5°	490.2	493.0	491.4	492.2	491.8	492.2	492.6	492.6
45°	442.3	443.1	443.1	443.4	444.2	445.0	442.7	442.3
47.5°	395.5	395.9	397.0	395.1	397.4	395.1	397.4	394.7
50°	348.3	349.8	348.7	349.4	348.3	348.3	347.9	347.5
52.5°	303.4	303.0	303.0	302.6	302.6	303.4	302.6	303.8
55°	258.6	259.0	258.2	257.8	257.4	258.6	257.4	256.6
57.5°	216.1	216.8	215.3	216.1	213.3	214.5	214.9	215.3
60°	176.7	175.5	175.5	173.9	173.9	175.1	173.6	173.6
62.5°	136.9	137.7	136.5	138.1	138.1	139.6	138.8	139.6
65°	104.9	105.3	105.7	105.7	105.7	108.0	107.3	106.1
67.5°	79.2	79.6	80.0	79.6	80.7	80.0	80.0	80.3
70°	57.3	57.7	58.1	58.1	57.7	58.1	58.1	58.1
72.5°	39.8	40.2	39.8	40.2	40.6	40.2	40.2	40.6
75°	26.1	26.1	25.7	25.7	25.7	25.7	26.1	25.7
77.5°	15.2	15.6	15.2	15.6	15.6	15.6	15.6	15.6
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)