

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: CORELITE

Report Number: 19869

Luminaire Tested: **SW-WB-2T5-IC-12-DL70**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 19869
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SW-WB-2T5-IC-12-DL70
Description: WHITE INTERIOR AND WHITE LENS OVER 23 CELL WHITE LOUVER WITH SLOTTED TOP COVER
Light Source: TWO PHILIPS 54 WATT T5 LAMPS

F54T5/841HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 5423.1 lumens
Efficiency: 60.3%
Efficacy: 50.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.51' x L: 4' x H: 0.29')
CIE Type: Semi-Direct

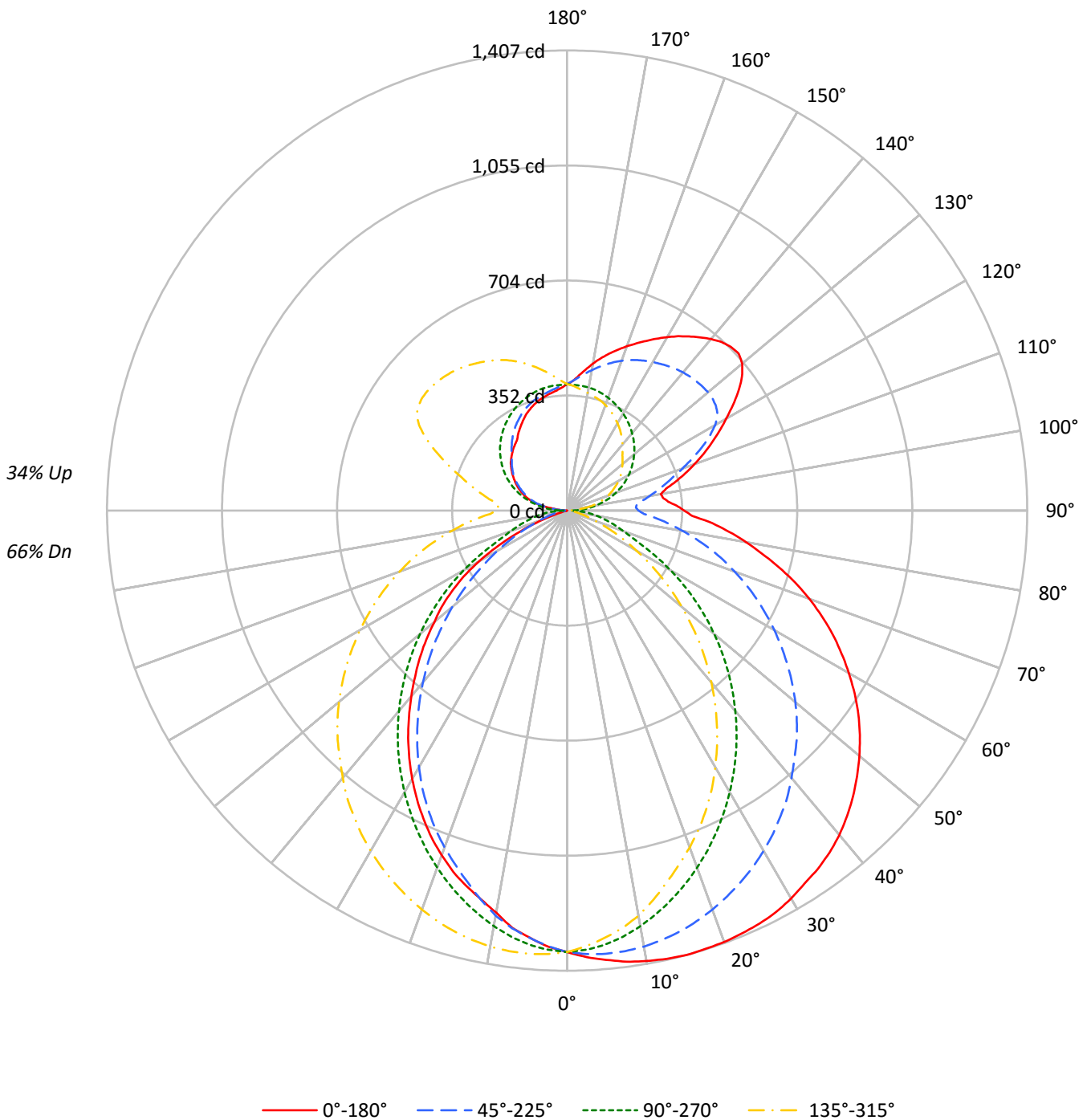
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	67	67	67	67	63	63	63	63	56	56	56	49	49	49	43	43	43	40
1	61	58	55	53	57	54	52	50	48	46	45	42	41	40	37	36	35	33
2	55	50	46	43	52	47	44	41	42	39	37	37	35	33	33	31	30	27
3	50	44	40	36	47	42	38	34	37	34	31	33	30	28	29	27	25	23
4	46	39	34	30	43	37	33	29	33	29	26	29	26	24	26	23	22	20
5	42	35	30	26	40	33	28	25	30	26	23	26	23	21	23	21	19	17
6	39	31	26	23	37	30	25	22	27	23	20	24	21	18	21	19	17	15
7	36	28	23	20	34	27	22	19	24	20	18	22	19	16	19	17	15	13
8	34	26	21	18	32	25	20	17	22	18	16	20	17	14	18	15	13	12
9	31	24	19	16	29	23	18	15	20	17	14	18	15	13	16	14	12	11
10	29	22	17	14	28	21	17	14	19	15	13	17	14	12	15	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7123	7123	7123	7123
5°	7257	6722	6900	6722
10°	7399	6282	6604	6282
15°	7540	5839	6371	5839
20°	7679	5405	6135	5405
25°	7845	4980	5854	4980
30°	8009	4562	5541	4562
35°	8196	4147	5198	4147
40°	8408	3731	4813	3731
45°	8602	3309	4429	3309
50°	8815	2873	4005	2873
55°	9065	2418	3586	2418
60°	9329	1940	2934	1940
65°	9684	1442	1974	1442
70°	10136	1102	937	1102
75°	10755	870	30	870
80°	11957	658	15	658
85°	14769	438	0	438



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	126.8	2.3	1.4
10°-20°	355.5	6.6	3.9
20°-30°	525.0	9.7	5.8
30°-40°	614.0	11.3	6.8
40°-50°	615.6	11.4	6.8
50°-60°	536.1	9.9	6.0
60°-70°	396.9	7.3	4.4
70°-80°	259.2	4.8	2.9
80°-90°	156.5	2.9	1.7
90°-100°	132.6	2.4	1.5
100°-110°	208.2	3.8	2.3
110°-120°	279.6	5.2	3.1
120°-130°	318.0	5.9	3.5
130°-140°	303.7	5.6	3.4
140°-150°	254.1	4.7	2.8
150°-160°	189.2	3.5	2.1
160°-170°	114.6	2.1	1.3
170°-180°	37.5	0.7	0.4
0°-30°	1007.2	18.6	11.2
0°-40°	1621.2	29.9	18.0
0°-60°	2772.9	51.1	30.8
0°-90°	3585.6	66.1	39.8
90°-120°	620.4	11.4	6.9
90°-150°	1496.2	27.6	16.6
90°-180°	1838.0	33.9	20.4
0°-180°	5423.1	100.0	60.3

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1350	1350	1350	1350	1350	
5°	1379	1332	1311	1332	1379	132
15°	1407	1232	1189	1232	1407	398
25°	1393	1082	1040	1082	1393	643
35°	1337	900	848	900	1337	838
45°	1236	696	637	696	1236	954
55°	1087	476	430	476	1087	972
65°	896	256	183	256	896	886
75°	670	133	2	133	670	709
85°	446	54	0	54	446	385
90°	358	11	0	11	358	196
95°	310	55	14	55	310	250
105°	344	125	112	125	344	366
115°	486	189	165	189	486	483
125°	640	244	206	244	640	570
135°	708	289	240	289	708	544
145°	650	327	266	327	650	409
155°	572	356	311	356	572	266
165°	497	376	346	376	497	142
175°	415	384	369	384	415	41
180°	386	386	386	386	386	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1350.0	1350.0	1350.0	1350.0	1350.0	1350.0	1350.0	1350.0	1350.0	1350.0	1350.0
2.5°	1366.8	1365.6	1357.1	1350.5	1344.1	1336.3	1333.3	1332.7	1334.7	1332.7	1333.3
5°	1378.9	1375.9	1360.4	1345.4	1332.3	1320.7	1311.8	1313.8	1310.9	1313.8	1311.8
7.5°	1391.3	1383.2	1358.6	1334.3	1313.9	1297.7	1288.1	1287.8	1286.6	1287.8	1288.1
10°	1398.6	1387.4	1353.5	1318.6	1290.1	1270.7	1257.6	1252.1	1248.4	1252.1	1257.6
12.5°	1403.8	1388.1	1344.4	1299.4	1262.7	1239.2	1219.0	1214.2	1217.2	1214.2	1219.0
15°	1407.1	1386.2	1332.3	1276.8	1231.7	1204.3	1176.2	1183.0	1188.9	1183.0	1176.2
17.5°	1405.5	1378.9	1316.7	1251.3	1198.1	1166.0	1136.3	1148.7	1158.4	1148.7	1136.3
20°	1403.7	1371.9	1298.3	1223.5	1161.8	1122.9	1095.7	1110.1	1121.4	1110.1	1095.7
22.5°	1399.2	1362.0	1277.2	1193.8	1123.1	1076.1	1052.9	1068.0	1082.8	1068.0	1052.9
25°	1393.0	1348.3	1254.2	1161.6	1082.1	1027.5	1006.9	1021.7	1039.5	1021.7	1006.9
27.5°	1383.8	1333.6	1229.2	1127.0	1039.1	979.4	958.0	974.0	995.0	974.0	958.0
30°	1369.6	1315.8	1201.5	1090.4	994.5	930.1	905.6	923.1	947.5	923.1	905.6
32.5°	1351.5	1291.8	1171.4	1051.8	948.1	879.7	853.2	871.4	897.7	871.4	853.2
35°	1337.0	1267.0	1138.7	1011.2	900.2	828.6	797.8	817.3	847.9	817.3	797.8
37.5°	1318.1	1244.7	1105.8	969.8	850.7	774.8	743.0	762.6	794.4	762.6	743.0
40°	1294.9	1217.5	1067.0	926.4	800.1	720.3	685.8	707.2	741.2	707.2	685.8
42.5°	1266.9	1187.2	1028.8	881.7	748.6	663.8	629.6	651.1	688.3	651.1	629.6
45°	1236.3	1153.0	992.3	835.8	695.7	605.8	572.3	596.0	636.6	596.0	572.3
47.5°	1202.5	1116.1	952.5	788.7	641.8	548.1	514.6	540.6	584.6	540.6	514.6
50°	1166.6	1078.6	911.1	740.5	587.2	488.7	457.6	484.9	530.1	484.9	457.6
52.5°	1128.1	1038.1	866.9	691.8	532.4	430.1	402.2	431.6	483.6	431.6	402.2
55°	1087.4	995.7	822.9	642.8	476.3	372.4	347.4	384.0	430.2	384.0	347.4
57.5°	1042.7	951.9	776.9	590.6	421.0	316.6	293.5	332.5	375.6	332.5	293.5
60°	995.0	905.9	731.4	540.6	364.9	262.9	244.6	280.2	312.9	280.2	244.6
62.5°	945.8	858.8	685.0	491.9	309.6	212.2	200.2	225.4	247.0	225.4	200.2
65°	896.2	809.2	639.5	442.9	256.3	168.6	158.9	172.8	182.7	172.8	158.9
67.5°	842.2	760.1	591.8	393.7	212.5	136.2	123.2	124.9	121.4	124.9	123.2
70°	787.9	707.7	544.9	346.5	183.1	110.1	91.6	86.3	72.8	86.3	91.6
72.5°	730.8	654.5	499.4	301.4	157.4	88.2	68.2	59.0	28.9	59.0	68.2
75°	670.3	601.3	451.8	260.4	133.3	67.8	50.8	38.7	1.9	38.7	50.8
77.5°	610.3	543.8	404.6	225.5	111.2	50.2	36.6	28.1	1.4	28.1	36.6
80°	555.3	496.2	358.8	196.9	91.5	35.5	25.7	20.6	0.7	20.6	25.7
82.5°	499.9	446.8	316.0	173.7	73.5	23.8	17.7	14.5	0.0	14.5	17.7
85°	446.1	398.9	275.3	152.3	54.2	15.2	11.4	10.2	0.0	10.2	11.4
87.5°	383.1	344.1	235.0	130.1	28.9	9.4	6.6	6.8	0.0	6.8	6.6
90°	357.6	323.8	217.7	115.9	10.8	8.8	6.3	4.7	0.0	4.7	6.3
92.5°	335.6	310.1	210.3	114.4	33.1	14.5	9.8	6.3	1.6	6.3	9.8
95°	310.0	296.1	213.8	127.2	54.9	31.0	23.2	17.7	14.1	17.7	23.2
97.5°	296.1	293.2	231.9	150.7	72.7	51.1	47.4	41.2	39.2	41.2	47.4
100°	291.0	302.3	256.1	179.2	90.6	67.8	70.6	68.4	68.0	68.4	70.6
102.5°	309.8	328.6	281.7	213.2	107.8	82.6	88.9	91.2	93.0	91.2	88.9
105°	343.7	359.0	309.6	247.0	125.2	96.9	105.0	109.7	112.2	109.7	105.0
107.5°	378.6	390.4	338.8	278.3	142.2	111.1	119.8	125.9	128.1	125.9	119.8
110°	414.6	421.4	374.9	301.3	158.4	123.9	132.8	139.9	141.1	139.9	132.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	450.8	451.9	412.7	319.3	174.0	136.5	145.1	152.9	153.4	152.9	145.1
115°	486.5	487.0	452.7	334.6	189.4	149.1	157.7	164.6	165.1	164.6	157.7
117.5°	523.9	522.4	490.3	347.9	203.7	161.1	169.8	175.6	175.6	175.6	169.8
120°	561.0	561.2	522.8	360.5	217.7	176.1	181.2	186.5	185.8	186.5	181.2
122.5°	601.1	599.4	545.5	371.5	231.0	192.2	191.9	197.1	195.8	197.1	191.9
125°	640.4	634.3	555.8	380.8	243.6	207.2	202.3	207.9	206.1	207.9	202.3
127.5°	674.3	661.4	561.0	389.7	255.7	221.1	211.7	217.6	215.7	217.6	211.7
130°	698.9	676.8	562.4	397.8	267.4	235.2	221.1	226.4	224.8	226.4	221.1
132.5°	710.9	678.1	561.4	405.0	278.5	247.6	229.6	234.1	232.6	234.1	229.6
135°	708.1	672.8	559.0	411.9	289.2	260.1	238.8	241.3	239.5	241.3	238.8
137.5°	699.0	662.7	555.7	417.8	299.3	271.7	251.3	248.5	246.5	248.5	251.3
140°	684.6	650.1	551.4	422.7	309.1	282.7	263.6	255.0	253.1	255.0	263.6
142.5°	667.7	637.2	545.9	426.4	318.1	293.4	275.6	261.8	258.9	261.8	275.6
145°	649.8	623.0	539.1	428.7	326.7	303.1	286.7	273.7	266.0	273.7	286.7
147.5°	632.0	607.8	531.7	430.2	334.9	312.2	298.2	285.8	278.3	285.8	298.2
150°	612.1	591.4	524.1	430.5	342.3	320.5	308.2	296.6	289.6	296.6	308.2
152.5°	592.6	575.2	516.2	430.3	349.4	328.3	317.8	306.8	300.6	306.8	317.8
155°	572.4	558.8	507.8	428.8	355.7	335.2	327.2	317.2	311.3	317.2	327.2
157.5°	553.1	542.3	498.3	426.8	361.6	342.3	336.0	326.2	321.9	326.2	336.0
160°	534.7	525.7	487.4	424.6	367.0	349.3	343.1	334.6	330.5	334.6	343.1
162.5°	515.6	508.7	475.7	422.0	371.9	356.1	349.8	342.4	339.1	342.4	349.8
165°	496.6	490.4	463.0	418.1	376.2	361.8	355.1	348.7	346.3	348.7	355.1
167.5°	477.0	471.4	449.8	413.4	379.5	366.9	360.3	354.3	352.2	354.3	360.3
170°	456.4	452.2	436.0	407.6	381.8	371.9	365.6	358.9	357.7	358.9	365.6
172.5°	435.0	432.6	422.7	402.1	383.6	376.3	370.6	364.6	363.2	364.6	370.6
175°	414.6	414.2	408.9	396.3	384.4	380.4	376.1	370.3	368.6	370.3	376.1
177.5°	396.1	396.7	396.8	391.6	384.6	384.1	382.4	377.7	376.3	377.7	382.4
180°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1350.0	1350.0	1350.0	1350.0	1350.0	1350.0
2.5°	1336.3	1344.1	1350.5	1357.1	1365.6	1366.8
5°	1320.7	1332.3	1345.4	1360.4	1375.9	1378.9
7.5°	1297.7	1313.9	1334.3	1358.6	1383.2	1391.3
10°	1270.7	1290.1	1318.6	1353.5	1387.4	1398.6
12.5°	1239.2	1262.7	1299.4	1344.4	1388.1	1403.8
15°	1204.3	1231.7	1276.8	1332.3	1386.2	1407.1
17.5°	1166.0	1198.1	1251.3	1316.7	1378.9	1405.5
20°	1122.9	1161.8	1223.5	1298.3	1371.9	1403.7
22.5°	1076.1	1123.1	1193.8	1277.2	1362.0	1399.2
25°	1027.5	1082.1	1161.6	1254.2	1348.3	1393.0
27.5°	979.4	1039.1	1127.0	1229.2	1333.6	1383.8
30°	930.1	994.5	1090.4	1201.5	1315.8	1369.6
32.5°	879.7	948.1	1051.8	1171.4	1291.8	1351.5
35°	828.6	900.2	1011.2	1138.7	1267.0	1337.0
37.5°	774.8	850.7	969.8	1105.8	1244.7	1318.1
40°	720.3	800.1	926.4	1067.0	1217.5	1294.9
42.5°	663.8	748.6	881.7	1028.8	1187.2	1266.9
45°	605.8	695.7	835.8	992.3	1153.0	1236.3
47.5°	548.1	641.8	788.7	952.5	1116.1	1202.5
50°	488.7	587.2	740.5	911.1	1078.6	1166.6
52.5°	430.1	532.4	691.8	866.9	1038.1	1128.1
55°	372.4	476.3	642.8	822.9	995.7	1087.4
57.5°	316.6	421.0	590.6	776.9	951.9	1042.7
60°	262.9	364.9	540.6	731.4	905.9	995.0
62.5°	212.2	309.6	491.9	685.0	858.8	945.8
65°	168.6	256.3	442.9	639.5	809.2	896.2
67.5°	136.2	212.5	393.7	591.8	760.1	842.2
70°	110.1	183.1	346.5	544.9	707.7	787.9
72.5°	88.2	157.4	301.4	499.4	654.5	730.8
75°	67.8	133.3	260.4	451.8	601.3	670.3
77.5°	50.2	111.2	225.5	404.6	543.8	610.3
80°	35.5	91.5	196.9	358.8	496.2	555.3
82.5°	23.8	73.5	173.7	316.0	446.8	499.9
85°	15.2	54.2	152.3	275.3	398.9	446.1
87.5°	9.4	28.9	130.1	235.0	344.1	383.1
90°	8.8	10.8	115.9	217.7	323.8	357.6
92.5°	14.5	33.1	114.4	210.3	310.1	335.6
95°	31.0	54.9	127.2	213.8	296.1	310.0
97.5°	51.1	72.7	150.7	231.9	293.2	296.1
100°	67.8	90.6	179.2	256.1	302.3	291.0
102.5°	82.6	107.8	213.2	281.7	328.6	309.8
105°	96.9	125.2	247.0	309.6	359.0	343.7
107.5°	111.1	142.2	278.3	338.8	390.4	378.6
110°	123.9	158.4	301.3	374.9	421.4	414.6



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	136.5	174.0	319.3	412.7	451.9	450.8
115°	149.1	189.4	334.6	452.7	487.0	486.5
117.5°	161.1	203.7	347.9	490.3	522.4	523.9
120°	176.1	217.7	360.5	522.8	561.2	561.0
122.5°	192.2	231.0	371.5	545.5	599.4	601.1
125°	207.2	243.6	380.8	555.8	634.3	640.4
127.5°	221.1	255.7	389.7	561.0	661.4	674.3
130°	235.2	267.4	397.8	562.4	676.8	698.9
132.5°	247.6	278.5	405.0	561.4	678.1	710.9
135°	260.1	289.2	411.9	559.0	672.8	708.1
137.5°	271.7	299.3	417.8	555.7	662.7	699.0
140°	282.7	309.1	422.7	551.4	650.1	684.6
142.5°	293.4	318.1	426.4	545.9	637.2	667.7
145°	303.1	326.7	428.7	539.1	623.0	649.8
147.5°	312.2	334.9	430.2	531.7	607.8	632.0
150°	320.5	342.3	430.5	524.1	591.4	612.1
152.5°	328.3	349.4	430.3	516.2	575.2	592.6
155°	335.2	355.7	428.8	507.8	558.8	572.4
157.5°	342.3	361.6	426.8	498.3	542.3	553.1
160°	349.3	367.0	424.6	487.4	525.7	534.7
162.5°	356.1	371.9	422.0	475.7	508.7	515.6
165°	361.8	376.2	418.1	463.0	490.4	496.6
167.5°	366.9	379.5	413.4	449.8	471.4	477.0
170°	371.9	381.8	407.6	436.0	452.2	456.4
172.5°	376.3	383.6	402.1	422.7	432.6	435.0
175°	380.4	384.4	396.3	408.9	414.2	414.6
177.5°	384.1	384.6	391.6	396.8	396.7	396.1
180°	386.5	386.5	386.5	386.5	386.5	386.5

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