

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: 18218

Luminaire Tested: **VW-SB-2T5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 18218  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: VW-SB-2T5  
Description: - DIRECT/INDIRECT LUMINAIRE - VERTECHS WALL - WHITE INTERIOR WITH SPECULAR REFLECTOR AND SEMI-SPECULAR 19 CELL LOUVER  
Light Source: TWO PHILIPS 54 WATT T5 LAMPS  
  
F54T5/TL841. LUMEN RATING = 4500 LMS.  
  
Ballast/Driver: -

**Summary**

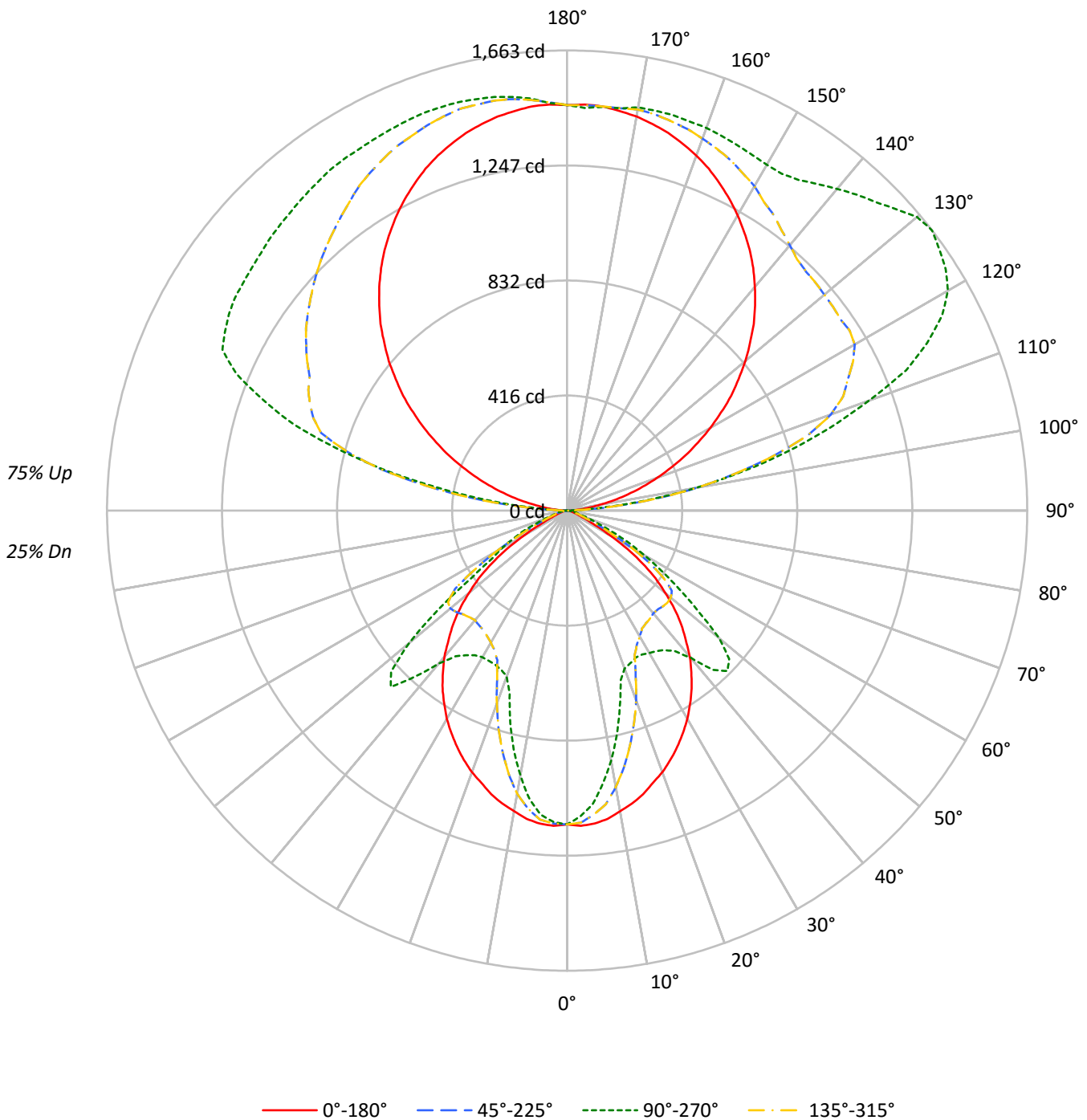
Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 7941.6 lumens  
Efficiency: 88.2%  
Efficacy: 64.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 0.65 / 1  
Luminous Opening: Rectangular (W 0.23' x L: 3.58' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 124  
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



TEST NUMBER: 18218  
CATALOG NUMBER: VW-SB-2T5

### 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	89	89	89	89	80	80	80	80	61	61	61	45	45	45	30	30	30	22				
1	82	78	75	72	73	70	67	65	54	53	51	40	39	38	27	26	26	20				
2	75	69	64	60	66	62	57	54	48	45	43	35	34	32	24	23	22	17				
3	68	61	55	50	61	54	49	45	42	39	36	32	29	28	21	20	19	15				
4	62	54	47	42	56	48	43	38	38	34	31	28	26	24	19	18	17	13				
5	57	48	41	36	51	43	37	33	34	30	27	25	23	21	17	16	15	11				
6	53	43	36	31	47	38	33	28	30	26	23	23	20	18	16	14	13	10				
7	49	38	32	27	43	35	29	25	27	23	20	21	18	16	14	13	11	9				
8	45	35	28	24	40	31	26	22	25	21	18	19	16	14	13	12	10	8				
9	42	32	25	21	37	29	23	19	23	19	16	17	15	13	12	11	9	7				
10	39	29	23	19	35	26	21	17	21	17	14	16	13	11	11	10	8	7				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	14823	14823	14823	14823
5°	14901	13970	14901	14475
10°	14647	12167	14647	12909
15°	14362	9949	14362	10742
20°	13995	8448	13995	8876
25°	13584	8457	13584	8871
30°	13119	8966	13119	9241
35°	12528	9815	12528	10182
40°	11782	11841	11782	12317
45°	10795	15152	10795	16663
50°	9410	14580	9410	15204
55°	7562	11263	7562	9465
60°	4670	8374	4670	7114
65°	2317	5416	2317	5416
70°	1449	3062	1449	3169
75°	1066	1965	1066	2106
80°	828	1039	828	1980
85°	915	1650	915	2070



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	103.3	1.3	1.1
10°-20°	251.9	3.2	2.8
20°-30°	319.1	4.0	3.5
30°-40°	371.8	4.7	4.1
40°-50°	443.4	5.6	4.9
50°-60°	352.5	4.4	3.9
60°-70°	133.3	1.7	1.5
70°-80°	35.1	0.4	0.4
80°-90°	9.3	0.1	0.1
90°-100°	183.0	2.3	2.0
100°-110°	701.7	8.8	7.8
110°-120°	995.4	12.5	11.1
120°-130°	1035.5	13.0	11.5
130°-140°	963.2	12.1	10.7
140°-150°	833.5	10.5	9.3
150°-160°	652.8	8.2	7.3
160°-170°	415.7	5.2	4.6
170°-180°	141.0	1.8	1.6
0°-30°	674.4	8.5	7.5
0°-40°	1046.1	13.2	11.6
0°-60°	1842.0	23.2	20.5
0°-90°	2019.7	25.4	22.4
90°-120°	1880.1	23.7	20.9
90°-150°	4712.3	59.3	52.4
90°-180°	5922.0	74.6	65.8
0°-180°	7941.6	100.0	88.2

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1134	1134	1134	1134	1134	
5°	1136	1065	1136	1103	1136	107
15°	1061	735	1061	794	1061	298
25°	942	586	942	615	942	433
35°	785	615	785	638	785	489
45°	584	820	584	901	584	447
55°	332	494	332	415	332	292
65°	75	175	75	175	75	85
75°	21	39	21	42	21	23
85°	6	11	6	14	6	5
90°	0	0	0	0	0	2
95°	42	134	42	134	42	51
105°	227	824	227	855	227	242
115°	472	1435	472	1375	472	466
125°	724	1643	724	1430	724	644
135°	954	1576	954	1464	954	734
145°	1150	1458	1150	1500	1150	719
155°	1304	1456	1304	1518	1304	601
165°	1413	1479	1413	1528	1413	398
175°	1466	1464	1466	1495	1466	139
180°	1465	1465	1465	1465	1465	



TEST NUMBER: 18218  
 CATALOG NUMBER: VW-SB-2T5

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9
2.5°	1140.4	1141.5	1128.9	1121.2	1105.8	1121.2	1128.9	1141.5	1140.4	1141.5	1131.7
5°	1135.5	1133.8	1103.1	1093.3	1064.6	1093.3	1103.1	1133.8	1135.5	1128.9	1121.2
7.5°	1123.6	1124.0	1070.2	1052.1	993.4	1052.1	1070.2	1124.0	1123.6	1110.7	1085.6
10°	1103.4	1090.5	1013.7	964.8	916.6	964.8	1013.7	1090.5	1103.4	1085.6	1039.5
12.5°	1084.2	1064.6	949.4	901.3	829.3	901.3	949.4	1064.6	1084.2	1047.2	975.3
15°	1061.2	1024.1	878.2	806.3	735.1	806.3	878.2	1024.1	1061.2	998.3	901.3
17.5°	1031.5	990.6	804.2	735.1	642.9	735.1	804.2	990.6	1031.5	949.4	824.4
20°	1006.0	929.2	729.5	624.7	607.3	624.7	729.5	929.2	1006.0	896.4	742.7
22.5°	975.3	875.4	647.8	594.0	596.8	594.0	647.8	875.4	975.3	842.6	661.1
25°	941.8	821.7	576.6	576.6	586.3	576.6	576.6	821.7	941.8	781.2	596.8
27.5°	906.1	760.2	545.8	566.1	586.3	566.1	545.8	760.2	906.1	712.0	568.9
30°	869.1	701.6	524.9	566.1	594.0	566.1	524.9	701.6	869.1	658.3	550.7
32.5°	827.2	640.1	504.6	561.2	601.7	561.2	504.6	640.1	827.2	584.2	538.2
35°	785.0	589.1	497.0	563.3	615.0	563.3	497.0	589.1	785.0	532.6	527.7
37.5°	737.2	520.0	492.1	571.0	640.1	571.0	492.1	520.0	737.2	476.7	522.8
40°	690.4	469.0	484.4	591.9	693.9	591.9	484.4	469.0	690.4	438.3	517.2
42.5°	633.8	410.4	484.4	624.7	781.2	624.7	484.4	410.4	633.8	412.5	522.8
45°	583.9	376.9	489.3	683.4	819.6	683.4	489.3	376.9	583.9	392.2	530.5
47.5°	526.3	351.0	492.1	712.0	793.7	712.0	492.1	351.0	526.3	369.2	543.0
50°	462.7	330.8	489.3	683.4	716.9	683.4	489.3	330.8	462.7	348.9	550.7
52.5°	402.7	304.9	476.7	609.4	596.8	609.4	476.7	304.9	402.7	328.0	543.0
55°	331.8	281.9	425.7	499.8	494.2	499.8	425.7	281.9	331.8	302.8	494.2
57.5°	259.2	254.0	353.8	412.5	402.7	412.5	353.8	254.0	259.2	266.5	395.0
60°	178.6	200.2	266.5	320.3	320.3	320.3	266.5	200.2	178.6	205.8	295.2
62.5°	112.2	146.4	177.2	256.8	246.3	256.8	177.2	146.4	112.2	138.8	195.3
65°	74.9	90.6	121.3	182.7	175.1	182.7	121.3	90.6	74.9	82.9	131.1
67.5°	49.4	59.9	75.2	123.4	115.7	123.4	75.2	59.9	49.4	54.3	87.8
70°	37.9	46.6	54.3	80.1	80.1	80.1	54.3	46.6	37.9	38.9	59.9
72.5°	27.7	31.2	41.7	57.1	54.3	57.1	41.7	31.2	27.7	31.2	44.5
75°	21.1	26.3	26.3	41.7	38.9	41.7	26.3	26.3	21.1	23.5	34.0
77.5°	14.8	18.7	13.8	31.2	34.0	31.2	13.8	18.7	14.8	21.4	26.3
80°	11.0	15.9	13.8	21.4	13.8	21.4	13.8	15.9	11.0	13.8	21.4
82.5°	8.2	11.0	13.8	18.7	15.9	18.7	13.8	11.0	8.2	11.0	13.8
85°	6.1	6.1	11.0	11.0	11.0	11.0	11.0	6.1	6.1	6.1	6.1
87.5°	0.5	0.5	0.5	6.1	6.1	6.1	0.5	0.5	0.5	0.5	6.1
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	12.0	64.7	34.0	67.5	18.7	67.5	34.0	64.7	12.0	18.7	41.7
95°	41.7	192.5	159.7	192.5	133.9	192.5	159.7	192.5	41.7	131.1	172.3
97.5°	78.7	310.5	312.6	366.4	292.4	366.4	312.6	310.5	78.7	274.2	341.3
100°	120.9	448.8	478.8	635.2	471.1	635.2	478.8	448.8	120.9	395.0	515.1
102.5°	172.3	473.9	627.5	716.9	645.7	716.9	627.5	473.9	172.3	438.3	689.0
105°	227.1	530.5	781.2	878.2	824.4	878.2	781.2	530.5	227.1	507.4	824.4
107.5°	286.1	586.3	916.6	1039.5	995.5	1039.5	916.6	586.3	286.1	547.9	932.0
110°	346.1	619.9	1013.7	1205.7	1159.6	1205.7	1013.7	619.9	346.1	604.5	975.3



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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°	407.6	653.4	1080.0	1318.1	1325.8	1318.1	1080.0	653.4	407.6	655.5	1006.0
115°	471.5	691.1	1118.4	1407.5	1435.4	1407.5	1118.4	691.1	471.5	698.8	1031.8
117.5°	532.9	727.4	1164.5	1466.1	1527.6	1466.1	1164.5	727.4	532.9	744.8	1049.3
120°	596.8	767.9	1200.1	1504.5	1589.0	1504.5	1200.1	767.9	596.8	786.0	1085.6
122.5°	659.3	839.8	1210.6	1543.0	1622.6	1543.0	1210.6	839.8	659.3	837.0	1118.4
125°	723.5	862.8	1205.7	1550.6	1642.8	1550.6	1205.7	862.8	723.5	860.1	1151.9
127.5°	780.8	913.8	1210.6	1540.9	1663.1	1540.9	1210.6	913.8	780.8	929.2	1179.9
130°	841.2	962.7	1213.4	1510.1	1650.5	1510.1	1213.4	962.7	841.2	983.0	1207.8
132.5°	896.0	1010.9	1218.3	1481.5	1612.1	1481.5	1218.3	1010.9	896.0	1029.0	1236.4
135°	953.6	1059.8	1221.1	1458.5	1576.5	1458.5	1221.1	1059.8	953.6	1080.0	1264.3
137.5°	1004.9	1105.8	1230.8	1438.2	1548.5	1438.2	1230.8	1105.8	1004.9	1116.3	1290.2
140°	1055.9	1144.2	1251.8	1418.0	1517.8	1418.0	1251.8	1144.2	1055.9	1169.4	1315.3
142.5°	1104.4	1184.7	1274.8	1402.6	1487.1	1402.6	1274.8	1184.7	1104.4	1207.8	1341.2
145°	1150.5	1244.1	1302.8	1399.8	1458.5	1399.8	1302.8	1244.1	1150.5	1251.8	1367.0
147.5°	1191.4	1264.3	1323.0	1402.6	1443.1	1402.6	1323.0	1264.3	1191.4	1267.1	1394.9
150°	1232.2	1295.1	1353.7	1412.4	1443.1	1412.4	1353.7	1295.1	1232.2	1320.9	1415.2
152.5°	1269.6	1328.6	1374.7	1425.6	1448.7	1425.6	1374.7	1328.6	1269.6	1353.7	1435.4
155°	1304.1	1356.5	1397.0	1435.4	1456.4	1435.4	1397.0	1356.5	1304.1	1381.7	1453.6
157.5°	1337.3	1381.7	1415.2	1448.7	1464.1	1448.7	1415.2	1381.7	1337.3	1407.5	1466.1
160°	1365.6	1410.3	1430.5	1456.4	1471.7	1456.4	1430.5	1410.3	1365.6	1427.7	1481.5
162.5°	1389.7	1427.7	1445.9	1464.1	1473.8	1464.1	1445.9	1427.7	1389.7	1448.7	1492.0
165°	1412.7	1435.4	1456.4	1471.7	1479.4	1471.7	1456.4	1435.4	1412.7	1464.1	1502.5
167.5°	1430.5	1456.4	1466.1	1476.6	1479.4	1476.6	1466.1	1456.4	1430.5	1468.9	1502.5
170°	1445.9	1458.5	1471.7	1476.6	1479.4	1476.6	1471.7	1458.5	1445.9	1479.4	1504.5
172.5°	1456.0	1464.1	1466.1	1471.7	1466.1	1471.7	1466.1	1464.1	1456.0	1481.5	1499.7
175°	1466.5	1464.1	1466.1	1464.1	1464.1	1464.1	1466.1	1464.1	1466.5	1476.6	1489.2
177.5°	1468.9	1476.6	1466.1	1456.4	1456.4	1456.4	1466.1	1476.6	1468.9	1479.4	1476.6
180°	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3



TEST NUMBER: 18218  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9
2.5°	1121.2	1126.1	1121.2	1131.7	1141.5	1140.4
5°	1087.7	1103.1	1087.7	1121.2	1128.9	1135.5
7.5°	1031.8	1049.3	1031.8	1085.6	1110.7	1123.6
10°	955.0	972.5	955.0	1039.5	1085.6	1103.4
12.5°	878.2	888.7	878.2	975.3	1047.2	1084.2
15°	786.0	793.7	786.0	901.3	998.3	1061.2
17.5°	691.1	691.1	691.1	824.4	949.4	1031.5
20°	630.3	638.0	630.3	742.7	896.4	1006.0
22.5°	615.0	622.6	615.0	661.1	842.6	975.3
25°	601.7	615.0	601.7	596.8	781.2	941.8
27.5°	591.9	612.2	591.9	568.9	712.0	906.1
30°	591.9	612.2	591.9	550.7	658.3	869.1
32.5°	594.0	619.9	594.0	538.2	584.2	827.2
35°	599.6	638.0	599.6	527.7	532.6	785.0
37.5°	617.1	663.1	617.1	522.8	476.7	737.2
40°	653.4	721.8	653.4	517.2	438.3	690.4
42.5°	719.7	814.0	719.7	522.8	412.5	633.8
45°	796.5	901.3	796.5	530.5	392.2	583.9
47.5°	778.4	862.8	778.4	543.0	369.2	526.3
50°	670.8	747.6	670.8	550.7	348.9	462.7
52.5°	540.3	584.2	540.3	543.0	328.0	402.7
55°	364.3	415.3	364.3	494.2	302.8	331.8
57.5°	279.8	318.2	279.8	395.0	266.5	259.2
60°	226.0	272.1	226.0	295.2	205.8	178.6
62.5°	182.7	218.4	182.7	195.3	138.8	112.2
65°	141.5	175.1	141.5	131.1	82.9	74.9
67.5°	98.3	118.5	98.3	87.8	54.3	49.4
70°	67.5	82.9	67.5	59.9	38.9	37.9
72.5°	46.6	54.3	46.6	44.5	31.2	27.7
75°	34.0	41.7	34.0	34.0	23.5	21.1
77.5°	23.5	34.0	23.5	26.3	21.4	14.8
80°	18.7	26.3	18.7	21.4	13.8	11.0
82.5°	15.9	18.7	15.9	13.8	11.0	8.2
85°	8.2	13.8	8.2	6.1	6.1	6.1
87.5°	6.1	8.2	6.1	6.1	0.5	0.5
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	11.0	23.5	11.0	41.7	18.7	12.0
95°	103.1	133.9	103.1	172.3	131.1	41.7
97.5°	254.0	297.3	254.0	341.3	274.2	78.7
100°	438.3	473.9	438.3	515.1	395.0	120.9
102.5°	522.8	670.8	522.8	689.0	438.3	172.3
105°	796.5	855.2	796.5	824.4	507.4	227.1
107.5°	993.4	1036.7	993.4	932.0	547.9	286.1
110°	1124.0	1169.4	1124.0	975.3	604.5	346.1





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1233.6	1295.1	1233.6	1006.0	655.5	407.6
115°	1279.7	1374.7	1279.7	1031.8	698.8	471.5
117.5°	1305.5	1394.9	1305.5	1049.3	744.8	532.9
120°	1325.8	1412.4	1325.8	1085.6	786.0	596.8
122.5°	1336.3	1425.6	1336.3	1118.4	837.0	659.3
125°	1338.4	1430.5	1338.4	1151.9	860.1	723.5
127.5°	1356.5	1438.2	1356.5	1179.9	929.2	780.8
130°	1376.8	1445.9	1376.8	1207.8	983.0	841.2
132.5°	1392.1	1456.4	1392.1	1236.4	1029.0	896.0
135°	1402.6	1464.1	1402.6	1264.3	1080.0	953.6
137.5°	1415.2	1471.7	1415.2	1290.2	1116.3	1004.9
140°	1430.5	1481.5	1430.5	1315.3	1169.4	1055.9
142.5°	1443.1	1489.2	1443.1	1341.2	1207.8	1104.4
145°	1458.5	1499.7	1458.5	1367.0	1251.8	1150.5
147.5°	1464.1	1504.5	1464.1	1394.9	1267.1	1191.4
150°	1473.8	1507.3	1473.8	1415.2	1320.9	1232.2
152.5°	1487.1	1512.2	1487.1	1435.4	1353.7	1269.6
155°	1496.9	1517.8	1496.9	1453.6	1381.7	1304.1
157.5°	1504.5	1522.7	1504.5	1466.1	1407.5	1337.3
160°	1510.1	1527.6	1510.1	1481.5	1427.7	1365.6
162.5°	1515.0	1527.6	1515.0	1492.0	1448.7	1389.7
165°	1519.9	1527.6	1519.9	1502.5	1464.1	1412.7
167.5°	1517.8	1522.7	1517.8	1502.5	1468.9	1430.5
170°	1517.8	1517.8	1517.8	1504.5	1479.4	1445.9
172.5°	1512.2	1507.3	1512.2	1499.7	1481.5	1456.0
175°	1499.7	1494.8	1499.7	1489.2	1476.6	1466.5
177.5°	1479.4	1473.8	1479.4	1476.6	1479.4	1468.9
180°	1465.3	1465.3	1465.3	1465.3	1465.3	1465.3

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