

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: 18214

Luminaire Tested: **VW-SH-2T8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 18214  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: VW-SH-2T8  
Description: - DIRECT/INDIRECT LUMINAIRE - VERTECHS WALL - WHITE INTERIOR WITH  
SPECULAR REFLECTOR AND SEMI-SPECULAR 46 CELL LOUVER  
Light Source: TWO PHILIPS 32 WATT T8 LAMPS  
  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
  
Ballast/Driver: -

**Summary**

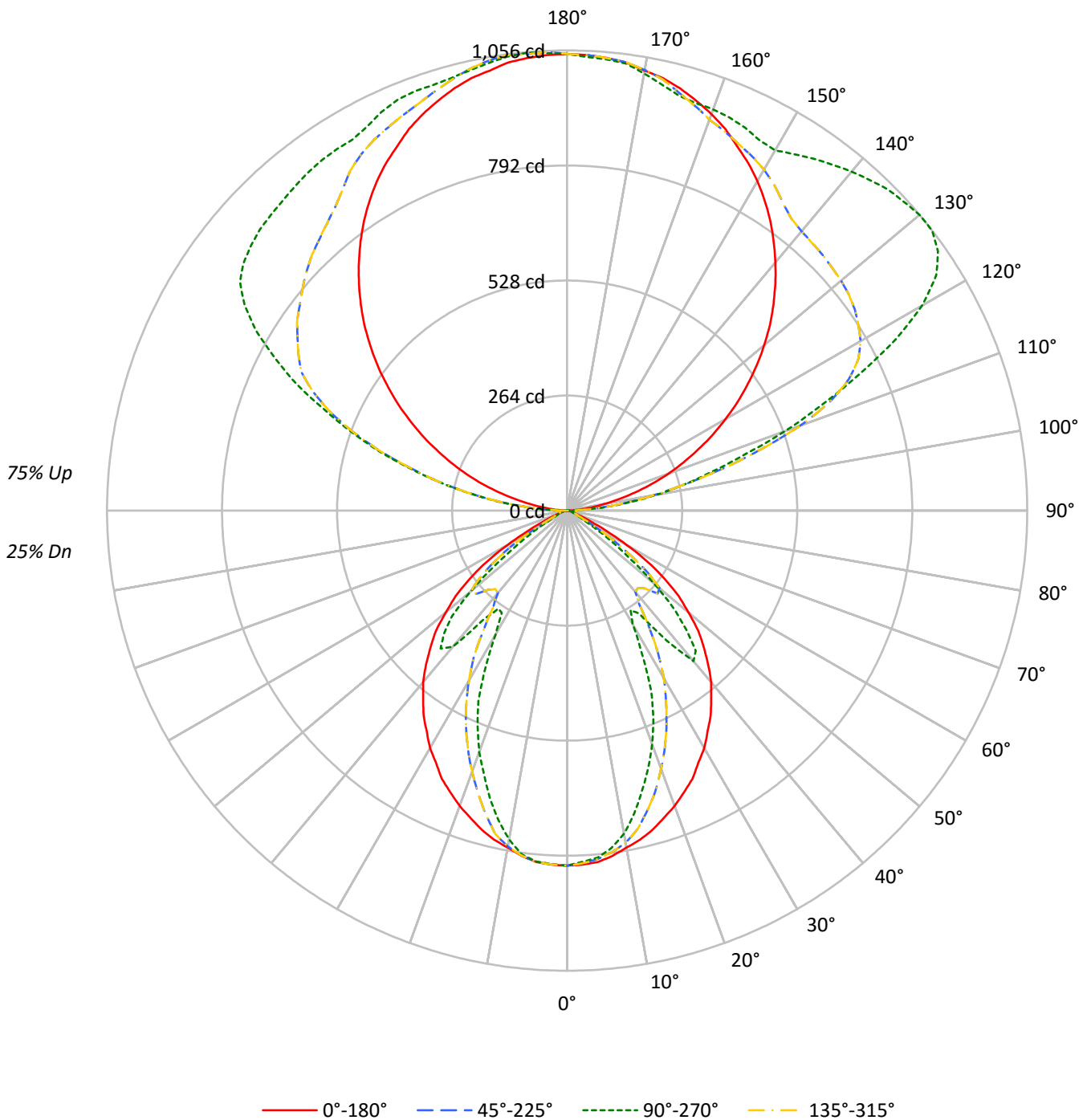
Lumens per Lamp: 3000 (2 lamps)  
Luminaire Lumens: 4970.3 lumens  
Efficiency: 82.8%  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.84 / 0.94  
Luminous Opening: Rectangular (W 0.23' x L: 3.58' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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CATALOG NUMBER: VW-SH-2T8

### 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	84	84	84	84	75	75	75	75	58	58	58	42	42	42	27	27	27	21
1	77	74	71	68	68	66	63	61	51	50	48	38	37	36	25	25	24	19
2	70	65	60	57	63	58	54	51	45	43	41	34	32	31	23	22	21	16
3	65	57	52	48	57	52	47	43	40	37	35	30	28	27	21	20	19	15
4	59	51	45	41	53	46	41	37	36	33	30	27	25	23	19	18	17	13
5	54	46	40	35	48	41	36	32	33	29	26	25	22	20	17	16	15	12
6	50	41	35	30	45	37	32	28	29	26	23	22	20	18	16	14	13	10
7	46	37	31	27	41	33	28	25	27	23	20	20	18	16	14	13	12	9
8	43	34	28	24	38	30	25	22	24	21	18	19	16	14	13	12	11	9
9	40	31	25	21	36	28	23	19	22	19	16	17	15	13	12	11	10	8
10	37	28	23	19	33	26	21	17	21	17	15	16	13	12	11	10	9	7

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

	0°	90°	180°	270°
0°	10651	10651	10651	10651
5°	10623	10491	10623	10611
10°	10423	9990	10423	10175
15°	10261	8996	10261	9250
20°	10032	7937	10032	8202
25°	9804	6572	9804	6945
30°	9498	4536	9498	4960
35°	9162	4604	9162	4382
40°	8773	7691	8773	6954
45°	8190	7145	8190	7388
50°	7374	5302	7374	5912
55°	6224	2910	6224	3339
60°	4120	1090	4120	1532
65°	1905	733	1905	885
70°	806	592	806	707
75°	561	631	561	687
80°	497	715	497	655
85°	405	855	405	405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	76.0	1.5	1.3
10°-20°	200.7	4.0	3.3
20°-30°	254.0	5.1	4.2
30°-40°	242.5	4.9	4.0
40°-50°	256.0	5.2	4.3
50°-60°	156.5	3.1	2.6
60°-70°	40.2	0.8	0.7
70°-80°	12.5	0.3	0.2
80°-90°	5.1	0.1	0.1
90°-100°	92.0	1.9	1.5
100°-110°	349.6	7.0	5.8
110°-120°	586.7	11.8	9.8
120°-130°	674.6	13.6	11.2
130°-140°	642.0	12.9	10.7
140°-150°	556.6	11.2	9.3
150°-160°	440.4	8.9	7.3
160°-170°	285.4	5.7	4.8
170°-180°	99.6	2.0	1.7
0°-30°	530.6	10.7	8.8
0°-40°	773.1	15.6	12.9
0°-60°	1185.6	23.9	19.8
0°-90°	1243.4	25.0	20.7
90°-120°	1028.3	20.7	17.1
90°-150°	2901.6	58.4	48.4
90°-180°	3727.0	75.0	62.1
0°-180°	4970.3	100.0	82.8

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	815	815	815	815	815	
5°	810	800	810	809	810	76
15°	758	665	758	684	758	213
25°	680	456	680	482	680	312
35°	574	288	574	275	574	358
45°	443	386	443	400	443	341
55°	273	128	273	146	273	240
65°	62	24	62	29	62	71
75°	11	12	11	14	11	13
85°	3	6	3	3	3	3
90°	0	0	0	0	0	2
95°	30	84	30	91	30	36
105°	162	344	162	373	162	173
115°	332	740	332	684	332	329
125°	506	1039	506	917	506	452
135°	670	1042	670	961	670	516
145°	812	986	812	982	812	508
155°	922	968	922	1009	922	426
165°	1003	986	1003	1028	1003	283
175°	1043	1040	1043	1054	1043	99
180°	1048	1048	1048	1048	1048	



TEST NUMBER: 18214  
 CATALOG NUMBER: VW-SH-2T8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8
2.5°	813.1	814.6	810.5	808.6	806.6	808.6	810.5	814.6	813.1	814.6	812.6
5°	809.5	809.6	802.5	802.5	799.5	802.5	802.5	809.6	809.5	809.6	809.6
7.5°	799.1	801.7	790.5	790.5	780.7	790.5	790.5	801.7	799.1	800.6	798.7
10°	785.2	787.5	773.6	767.6	752.6	767.6	773.6	787.5	785.2	788.6	782.6
12.5°	773.6	773.6	748.5	740.6	711.6	740.6	748.5	773.6	773.6	771.7	760.5
15°	758.2	753.7	711.6	694.7	664.7	694.7	711.6	753.7	758.2	746.6	721.5
17.5°	739.1	736.5	674.5	657.6	618.6	657.6	674.5	736.5	739.1	721.5	679.7
20°	721.1	707.5	630.6	599.7	570.5	599.7	630.6	707.5	721.1	691.7	637.7
22.5°	700.0	678.6	586.6	548.7	516.7	548.7	586.6	678.6	700.0	659.5	594.5
25°	679.7	646.7	539.7	495.7	455.6	495.7	539.7	646.7	679.7	620.7	548.7
27.5°	652.0	610.6	490.5	434.6	373.7	434.6	490.5	610.6	652.0	576.5	501.7
30°	629.2	573.5	443.6	367.7	300.5	367.7	443.6	573.5	629.2	543.5	451.5
32.5°	600.1	533.7	387.6	290.7	270.5	290.7	387.6	533.7	600.1	497.6	398.5
35°	574.1	495.7	329.7	262.6	288.5	262.6	329.7	495.7	574.1	460.5	334.6
37.5°	542.5	448.5	271.6	275.7	376.7	275.7	271.6	448.5	542.5	415.7	278.7
40°	514.1	404.5	243.7	335.7	450.7	335.7	243.7	404.5	514.1	371.5	247.6
42.5°	479.1	359.5	240.7	402.6	436.7	402.6	240.7	359.5	479.1	325.6	243.7
45°	443.0	314.7	252.7	389.5	386.5	389.5	252.7	314.7	443.0	282.5	257.7
47.5°	408.2	272.7	281.7	342.6	329.7	342.6	281.7	272.7	408.2	241.6	282.5
50°	362.6	230.6	276.5	283.6	260.7	283.6	276.5	230.6	362.6	204.7	289.6
52.5°	322.6	194.6	232.5	222.7	185.6	222.7	232.5	194.6	322.6	177.7	250.6
55°	273.1	160.7	172.8	155.6	127.7	155.6	172.8	160.7	273.1	152.6	203.6
57.5°	220.1	130.7	119.5	107.5	77.8	107.5	119.5	130.7	220.1	129.6	149.6
60°	157.6	98.5	72.6	62.7	41.7	62.7	72.6	98.5	157.6	90.6	96.6
62.5°	103.1	64.7	44.7	39.5	34.6	39.5	44.7	64.7	103.1	56.7	57.6
65°	61.6	37.6	26.7	26.7	23.7	26.7	26.7	37.6	61.6	29.7	34.6
67.5°	36.1	22.6	25.6	21.5	21.5	21.5	25.6	22.6	36.1	22.6	25.6
70°	21.1	17.7	18.5	16.6	15.5	16.6	18.5	17.7	21.1	13.6	18.5
72.5°	15.1	13.6	11.7	14.7	12.5	14.7	11.7	13.6	15.1	10.6	13.6
75°	11.1	11.7	10.6	11.7	12.5	11.7	10.6	11.7	11.1	8.7	16.6
77.5°	8.6	10.6	8.7	9.5	8.7	9.5	8.7	10.6	8.6	9.5	11.7
80°	6.6	7.6	8.7	5.7	9.5	5.7	8.7	7.6	6.6	6.5	9.5
82.5°	4.6	6.5	7.6	6.5	7.6	6.5	7.6	6.5	4.6	4.6	7.6
85°	2.7	4.6	5.7	6.5	5.7	6.5	5.7	4.6	2.7	2.7	5.7
87.5°	2.5	1.6	5.7	5.7	6.5	5.7	5.7	1.6	2.5	0.5	3.5
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°	8.1	35.7	26.7	47.7	33.5	47.7	26.7	35.7	8.1	9.5	37.6
95°	30.1	81.6	78.6	99.6	83.5	99.6	78.6	81.6	30.1	60.6	90.6
97.5°	56.2	149.6	134.5	164.6	142.7	164.6	134.5	149.6	56.2	117.6	154.7
100°	87.0	281.7	199.5	262.6	207.7	262.6	199.5	281.7	87.0	181.5	224.6
102.5°	122.5	314.7	270.5	296.7	272.7	296.7	270.5	314.7	122.5	214.5	296.7
105°	162.1	364.7	364.7	376.7	343.6	376.7	364.7	364.7	162.1	309.5	365.5
107.5°	204.0	400.7	465.7	473.6	426.6	473.6	465.7	400.7	204.0	365.5	445.7
110°	247.1	429.6	569.7	582.5	530.6	582.5	569.7	429.6	247.1	397.7	518.6



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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°	288.6	454.5	653.5	688.7	631.7	688.7	653.5	454.5	288.6	430.7	586.6
115°	331.6	475.5	713.6	793.5	739.5	793.5	713.6	475.5	331.6	462.7	642.6
117.5°	376.7	496.5	753.7	877.6	849.5	877.6	753.7	496.5	376.7	493.5	687.6
120°	419.1	518.6	777.7	938.5	940.7	938.5	777.7	518.6	419.1	523.5	711.6
122.5°	464.0	556.6	792.7	985.7	1004.6	985.7	792.7	556.6	464.0	551.7	733.5
125°	505.7	570.5	805.5	990.6	1038.7	990.6	805.5	570.5	505.7	563.7	756.7
127.5°	549.1	605.7	814.6	992.5	1055.6	992.5	814.6	605.7	549.1	604.6	773.6
130°	590.2	638.5	820.6	991.7	1055.6	991.7	820.6	638.5	590.2	646.7	792.7
132.5°	631.1	674.5	824.7	987.6	1048.5	987.6	824.7	674.5	631.1	683.5	811.6
135°	669.6	702.6	829.6	977.5	1041.7	977.5	829.6	702.6	669.6	717.6	828.5
137.5°	707.1	730.5	832.6	968.5	1028.6	968.5	832.6	730.5	707.1	746.6	842.7
140°	743.6	760.5	836.7	958.7	1015.5	958.7	836.7	760.5	743.6	776.6	858.5
142.5°	778.7	788.6	844.6	947.5	1000.5	947.5	844.6	788.6	778.7	804.7	875.7
145°	812.5	828.5	862.6	931.7	985.7	931.7	862.6	828.5	812.5	833.7	898.6
147.5°	843.6	844.6	885.5	929.5	969.6	929.5	885.5	844.6	843.6	845.7	925.7
150°	873.1	873.5	903.6	935.5	954.6	935.5	903.6	873.5	873.1	889.6	944.5
152.5°	899.6	900.5	917.5	949.7	957.6	949.7	917.5	900.5	899.6	915.6	959.5
155°	922.5	927.6	928.7	959.5	968.5	959.5	928.7	927.6	922.5	940.7	970.7
157.5°	948.0	954.6	942.6	964.7	975.6	964.7	942.6	954.6	948.0	966.6	982.7
160°	968.1	979.7	954.6	969.6	979.7	969.6	954.6	979.7	968.1	988.7	994.5
162.5°	986.1	996.6	974.5	976.7	980.5	976.7	974.5	996.6	986.1	1006.5	1008.7
165°	1002.6	1012.5	992.5	989.5	986.5	989.5	992.5	1012.5	1002.6	1022.6	1023.7
167.5°	1016.6	1029.7	1013.6	1017.7	1001.6	1017.7	1013.6	1029.7	1016.6	1035.7	1037.6
170°	1025.2	1034.6	1026.7	1026.7	1018.5	1026.7	1026.7	1034.6	1025.2	1038.7	1047.7
172.5°	1037.0	1043.6	1037.6	1035.7	1034.6	1035.7	1037.6	1043.6	1037.0	1049.6	1054.5
175°	1042.6	1048.5	1042.5	1040.6	1039.5	1040.6	1042.5	1048.5	1042.6	1053.7	1050.7
177.5°	1046.1	1050.7	1046.6	1041.7	1041.7	1041.7	1046.6	1050.7	1046.1	1054.5	1053.7
180°	1047.6	1047.6	1047.6	1047.6	1047.6	1047.6	1047.6	1047.6	1047.6	1047.6	1047.6



TEST NUMBER: 18214  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	814.8	814.8	814.8	814.8	814.8	814.8
2.5°	809.6	811.6	809.6	812.6	814.6	813.1
5°	801.7	808.6	801.7	809.6	809.6	809.5
7.5°	785.6	795.7	785.6	798.7	800.6	799.1
10°	752.6	766.5	752.6	782.6	788.6	785.2
12.5°	715.7	727.5	715.7	760.5	771.7	773.6
15°	668.5	683.5	668.5	721.5	746.6	758.2
17.5°	627.6	634.7	627.6	679.7	721.5	739.1
20°	578.7	589.6	578.7	637.7	691.7	721.1
22.5°	528.7	536.7	528.7	594.5	659.5	700.0
25°	470.6	481.5	470.6	548.7	620.7	679.7
27.5°	391.7	405.6	391.7	501.7	576.5	652.0
30°	325.6	328.6	325.6	451.5	543.5	629.2
32.5°	273.5	278.7	273.5	398.5	497.6	600.1
35°	263.7	274.6	263.7	334.6	460.5	574.1
37.5°	291.5	314.7	291.5	278.7	415.7	542.5
40°	365.5	407.5	365.5	247.6	371.5	514.1
42.5°	395.5	429.6	395.5	243.7	325.6	479.1
45°	366.6	399.6	366.6	257.7	282.5	443.0
47.5°	321.5	357.6	321.5	282.5	241.6	408.2
50°	255.7	290.7	255.7	289.6	204.7	362.6
52.5°	195.7	215.6	195.7	250.6	177.7	322.6
55°	126.6	146.5	126.6	203.6	152.6	273.1
57.5°	86.5	98.5	86.5	149.6	129.6	220.1
60°	51.5	58.6	51.5	96.6	90.6	157.6
62.5°	32.7	35.7	32.7	57.6	56.7	103.1
65°	25.6	28.6	25.6	34.6	29.7	61.6
67.5°	19.6	21.5	19.6	25.6	22.6	36.1
70°	16.6	18.5	16.6	18.5	13.6	21.1
72.5°	14.7	16.6	14.7	13.6	10.6	15.1
75°	10.6	13.6	10.6	16.6	8.7	11.1
77.5°	9.5	10.6	9.5	11.7	9.5	8.6
80°	6.5	8.7	6.5	9.5	6.5	6.6
82.5°	6.5	6.5	6.5	7.6	4.6	4.6
85°	4.6	2.7	4.6	5.7	2.7	2.7
87.5°	3.5	5.7	3.5	3.5	0.5	2.5
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	19.6	38.7	19.6	37.6	9.5	8.1
95°	69.6	90.6	69.6	90.6	60.6	30.1
97.5°	130.7	159.7	130.7	154.7	117.6	56.2
100°	200.6	225.7	200.6	224.6	181.5	87.0
102.5°	233.6	298.6	233.6	296.7	214.5	122.5
105°	339.6	372.6	339.6	365.5	309.5	162.1
107.5°	424.7	451.5	424.7	445.7	365.5	204.0
110°	499.5	525.7	499.5	518.6	397.7	247.1





TEST NUMBER: 18214  
 CATALOG NUMBER: VW-SH-2T8

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	576.5	601.6	576.5	586.6	430.7	288.6
115°	651.6	683.5	651.6	642.6	462.7	331.6
117.5°	726.7	754.5	726.7	687.6	493.5	376.7
120°	789.7	823.6	789.7	711.6	523.5	419.1
122.5°	841.6	877.6	841.6	733.5	551.7	464.0
125°	859.6	916.7	859.6	756.7	563.7	505.7
127.5°	886.6	935.5	886.6	773.6	604.6	549.1
130°	901.6	946.7	901.6	792.7	646.7	590.2
132.5°	911.5	955.7	911.5	811.6	683.5	631.1
135°	921.6	960.6	921.6	828.5	717.6	669.6
137.5°	928.7	965.5	928.7	842.7	746.6	707.1
140°	937.7	971.5	937.7	858.5	776.6	743.6
142.5°	946.7	977.5	946.7	875.7	804.7	778.7
145°	951.6	981.6	951.6	898.6	833.7	812.5
147.5°	954.6	983.5	954.6	925.7	845.7	843.6
150°	960.6	983.5	960.6	944.5	889.6	873.1
152.5°	979.7	993.6	979.7	959.5	915.6	899.6
155°	996.6	1008.7	996.6	970.7	940.7	922.5
157.5°	1007.6	1019.6	1007.6	982.7	966.6	948.0
160°	1011.7	1023.7	1011.7	994.5	988.7	968.1
162.5°	1015.5	1023.7	1015.5	1008.7	1006.5	986.1
165°	1020.7	1027.5	1020.7	1023.7	1022.6	1002.6
167.5°	1030.5	1034.6	1030.5	1037.6	1035.7	1016.6
170°	1034.6	1042.5	1034.6	1047.7	1038.7	1025.2
172.5°	1051.5	1050.7	1051.5	1054.5	1049.6	1037.0
175°	1052.6	1054.5	1052.6	1050.7	1053.7	1042.6
177.5°	1051.5	1050.7	1051.5	1053.7	1054.5	1046.1
180°	1047.6	1047.6	1047.6	1047.6	1047.6	1047.6

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