

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: 18217

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 18217
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: VW-SH-2T5
Description: DIRECT/INDIRECT LUMINAIRE WITH WHITE INTERIOR WITH SPECULAR REFLECTOR AND SEMI-SPECULAR 46 CELL LOUVER
Light Source: TWO PHILIPS 54 WATT T5 LAMPS

F54T5/TL841. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

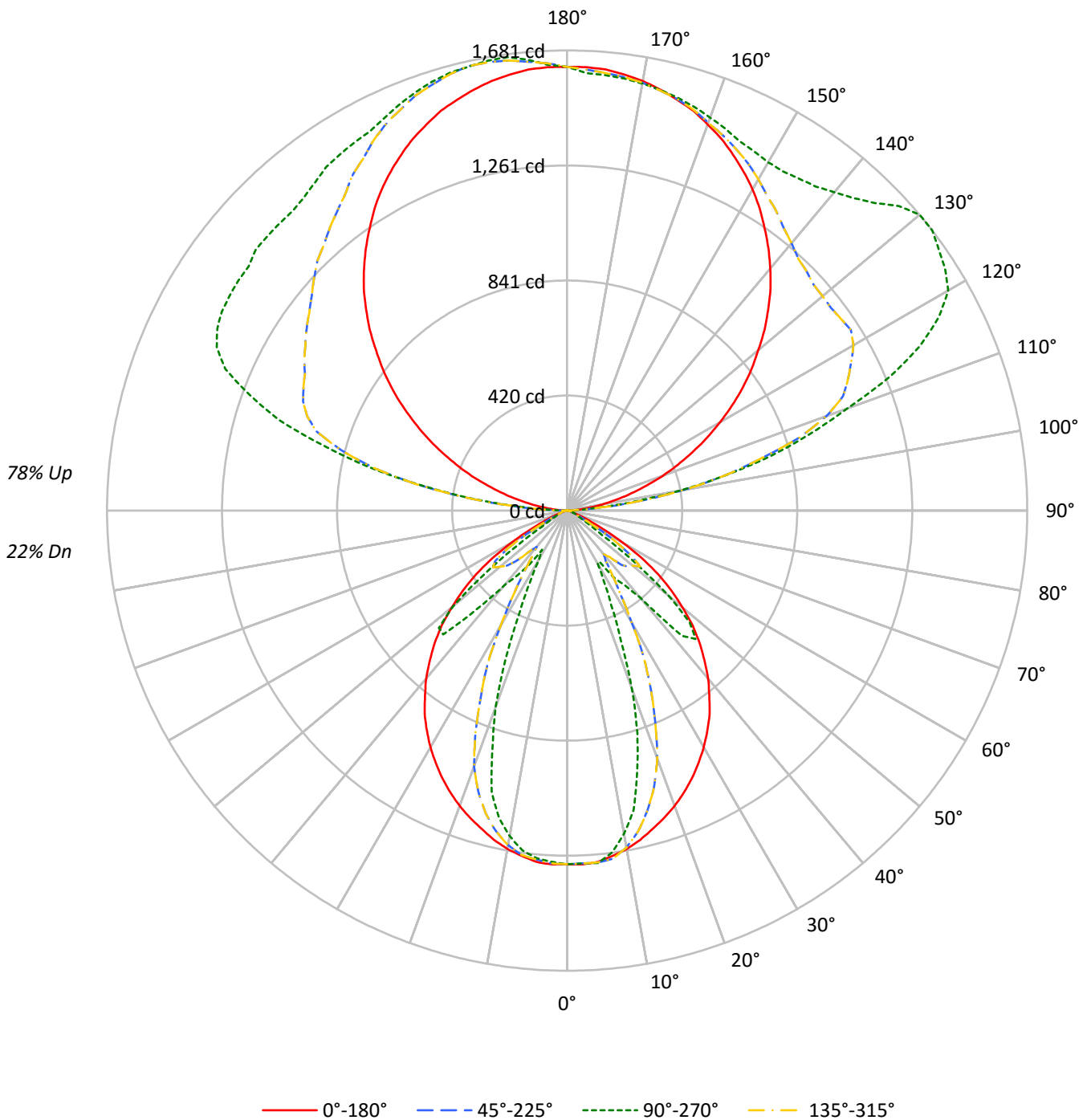
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 7810.0 lumens
Efficiency: 86.8%
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.7 / 0.79
Luminous Opening: Rectangular (W 0.23' x L: 3.58' x H: 0')
CIE Type: Semi-Indirect

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: 18217
CATALOG NUMBER: VW-SH-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	87	87	87	87	77	77	77	77	59	59	59	42	42	42	26	26	26	19				
1	80	76	73	71	71	68	65	63	52	50	49	37	36	36	24	23	23	17				
2	73	67	63	59	65	60	56	53	46	44	41	33	32	31	22	21	20	15				
3	67	60	54	49	59	53	48	45	41	38	35	30	28	26	20	19	18	13				
4	61	53	47	42	54	47	42	38	37	33	30	27	25	23	18	17	16	12				
5	56	47	41	36	50	42	37	33	33	29	26	24	22	20	16	15	14	11				
6	52	42	36	31	46	38	33	29	30	26	23	22	20	18	15	14	13	10				
7	48	38	32	28	43	34	29	25	27	23	21	20	18	16	14	12	11	9				
8	45	35	29	24	40	31	26	22	25	21	18	19	16	14	13	11	10	8				
9	42	32	26	22	37	29	23	20	23	19	16	17	15	13	12	10	9	7				
10	39	29	23	19	35	26	21	18	21	17	15	16	13	12	11	10	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16884	16884	16884	16884
5°	16907	16958	16907	16729
10°	16663	15902	16663	16033
15°	16299	13369	16299	14408
20°	15972	9614	15972	10614
25°	15563	5506	15563	5950
30°	15069	3328	15069	3064
35°	14482	4789	14482	3808
40°	13676	7039	13676	6038
45°	12640	12259	12640	11834
50°	11151	9851	11151	11043
55°	9226	3576	9226	5025
60°	6147	1618	6147	1966
65°	2997	1138	2997	1203
70°	1208	898	1208	1005
75°	697	697	697	945
80°	723	828	723	1039
85°	915	1230	915	1650



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	121.2	1.6	1.3
10°-20°	313.2	4.0	3.5
20°-30°	339.9	4.4	3.8
30°-40°	285.5	3.7	3.2
40°-50°	329.9	4.2	3.7
50°-60°	224.9	2.9	2.5
60°-70°	57.5	0.7	0.6
70°-80°	18.7	0.2	0.2
80°-90°	7.5	0.1	0.1
90°-100°	183.3	2.3	2.0
100°-110°	705.7	9.0	7.8
110°-120°	1011.6	13.0	11.2
120°-130°	1057.4	13.5	11.7
130°-140°	988.5	12.7	11.0
140°-150°	867.6	11.1	9.6
150°-160°	692.3	8.9	7.7
160°-170°	450.2	5.8	5.0
170°-180°	154.9	2.0	1.7
0°-30°	774.4	9.9	8.6
0°-40°	1059.9	13.6	11.8
0°-60°	1614.7	20.7	17.9
0°-90°	1698.4	21.7	18.9
90°-120°	1900.6	24.3	21.1
90°-150°	4814.1	61.6	53.5
90°-180°	6112.0	78.3	67.9
0°-180°	7810.0	100.0	86.8

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1292	1292	1292	1292	1292	
5°	1288	1292	1288	1275	1288	122
15°	1204	988	1204	1065	1204	340
25°	1079	382	1079	412	1079	496
35°	908	300	908	239	908	565
45°	684	663	684	640	684	524
55°	405	157	405	220	405	356
65°	97	37	97	39	97	109
75°	14	14	14	19	14	17
85°	6	8	6	11	6	5
90°	0	0	0	0	0	2
95°	44	96	44	190	44	55
105°	241	771	241	926	241	259
115°	505	1423	505	1412	505	501
125°	783	1658	783	1466	783	698
135°	1038	1589	1038	1484	1038	801
145°	1258	1479	1258	1533	1258	787
155°	1434	1489	1434	1581	1434	661
165°	1553	1561	1553	1655	1553	439
175°	1617	1597	1617	1653	1617	154
180°	1621	1621	1621	1621	1621	



TEST NUMBER: 18217
 CATALOG NUMBER: VW-SH-2T5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1291.6	1291.6	1291.6	1291.6	1291.6	1291.6	1291.6	1291.6	1291.6	1291.6	1291.6
2.5°	1293.7	1295.1	1290.2	1284.6	1290.2	1284.6	1290.2	1295.1	1293.7	1295.1	1290.2
5°	1288.4	1290.2	1290.2	1290.2	1292.3	1290.2	1290.2	1290.2	1288.4	1290.2	1279.7
7.5°	1272.0	1284.6	1282.5	1282.5	1259.5	1282.5	1282.5	1284.6	1272.0	1272.0	1269.2
10°	1255.3	1264.3	1249.0	1228.7	1198.0	1228.7	1249.0	1264.3	1255.3	1251.8	1241.3
12.5°	1232.2	1249.0	1200.1	1175.0	1121.2	1175.0	1200.1	1249.0	1232.2	1230.8	1200.1
15°	1204.3	1221.1	1133.8	1077.9	987.8	1077.9	1133.8	1221.1	1204.3	1192.4	1147.0
17.5°	1177.1	1198.0	1057.0	972.5	852.4	972.5	1057.0	1198.0	1177.1	1151.9	1077.9
20°	1148.1	1144.2	962.7	809.1	691.1	809.1	962.7	1144.2	1148.1	1103.1	993.4
22.5°	1114.9	1090.5	842.6	653.4	512.3	653.4	842.6	1090.5	1114.9	1049.3	873.3
25°	1079.0	1031.8	724.6	486.5	381.7	486.5	724.6	1031.8	1079.0	993.4	742.7
27.5°	1039.2	970.4	607.3	366.4	289.6	366.4	607.3	970.4	1039.2	921.5	627.5
30°	998.3	901.3	471.1	287.5	220.5	287.5	471.1	901.3	998.3	855.2	484.4
32.5°	953.6	821.7	361.5	223.2	223.2	223.2	361.5	821.7	953.6	767.9	366.4
35°	907.5	744.8	289.6	207.9	300.1	207.9	289.6	744.8	907.5	676.4	272.1
37.5°	852.7	635.2	230.9	277.0	341.3	277.0	230.9	635.2	852.7	568.9	205.8
40°	801.4	555.6	207.9	330.8	412.5	330.8	207.9	555.6	801.4	486.5	172.3
42.5°	742.4	453.7	230.9	381.7	619.9	381.7	230.9	453.7	742.4	395.0	198.1
45°	683.7	372.0	279.8	507.4	663.1	507.4	279.8	372.0	683.7	304.9	256.8
47.5°	621.3	292.4	304.9	561.2	607.3	561.2	304.9	292.4	621.3	238.6	297.3
50°	548.3	233.7	312.6	494.2	484.4	494.2	312.6	233.7	548.3	192.5	318.2
52.5°	480.2	198.1	335.7	392.2	312.6	392.2	335.7	198.1	480.2	175.1	341.3
55°	404.8	169.5	279.8	258.9	156.9	258.9	279.8	169.5	404.8	159.7	320.3
57.5°	322.0	146.4	203.0	152.0	95.5	152.0	203.0	146.4	322.0	146.4	254.0
60°	235.1	105.9	121.3	80.1	61.9	80.1	121.3	105.9	235.1	115.7	169.5
62.5°	158.3	72.4	67.5	54.3	44.5	54.3	67.5	72.4	158.3	75.2	92.7
65°	96.9	41.7	41.7	38.9	36.8	38.9	41.7	41.7	96.9	44.5	52.2
67.5°	57.1	29.1	31.2	31.2	31.2	31.2	31.2	29.1	57.1	29.1	34.0
70°	31.6	23.5	23.5	23.5	23.5	23.5	23.5	23.5	31.6	23.5	26.3
72.5°	17.6	21.4	18.7	23.5	21.4	23.5	18.7	21.4	17.6	18.7	21.4
75°	13.8	18.7	15.9	18.7	13.8	18.7	15.9	18.7	13.8	15.9	18.7
77.5°	12.4	15.9	13.8	13.8	13.8	13.8	13.8	15.9	12.4	13.8	13.8
80°	9.6	11.0	11.0	13.8	11.0	13.8	11.0	11.0	9.6	11.0	13.8
82.5°	8.2	8.2	8.2	11.0	11.0	11.0	8.2	8.2	8.2	6.1	11.0
85°	6.1	6.1	8.2	8.2	8.2	8.2	8.2	6.1	6.1	3.3	8.2
87.5°	0.5	3.3	6.1	8.2	6.1	8.2	6.1	3.3	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°	14.8	52.2	6.1	23.5	6.1	23.5	6.1	52.2	14.8	31.2	67.5
95°	44.5	172.3	113.6	136.7	95.5	136.7	113.6	172.3	44.5	152.0	210.7
97.5°	83.9	295.2	264.4	297.3	238.6	297.3	264.4	295.2	83.9	297.3	381.7
100°	131.1	448.8	430.6	561.2	412.5	561.2	430.6	448.8	131.1	418.1	563.3
102.5°	185.2	478.8	589.1	642.9	589.1	642.9	589.1	478.8	185.2	453.7	727.4
105°	241.1	532.6	729.5	811.9	770.7	811.9	729.5	532.6	241.1	517.2	855.2
107.5°	303.9	589.1	890.8	975.3	929.2	975.3	890.8	589.1	303.9	558.4	959.9
110°	371.6	619.9	1008.8	1159.6	1087.7	1159.6	1008.8	619.9	371.6	607.3	1010.9



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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°	436.9	653.4	1090.5	1305.5	1274.8	1305.5	1090.5	653.4	436.9	655.5	1044.4
115°	504.6	691.1	1131.7	1407.5	1422.9	1407.5	1131.7	691.1	504.6	693.9	1062.6
117.5°	576.2	735.1	1169.4	1481.5	1530.4	1481.5	1169.4	735.1	576.2	752.5	1080.0
120°	644.3	778.4	1207.8	1515.0	1607.2	1515.0	1207.8	778.4	644.3	806.3	1108.6
122.5°	714.1	850.3	1228.7	1550.6	1637.9	1550.6	1228.7	850.3	714.1	852.4	1133.8
125°	783.2	881.0	1221.1	1563.9	1658.2	1563.9	1221.1	881.0	783.2	875.4	1161.7
127.5°	848.9	932.0	1215.5	1566.0	1681.2	1566.0	1215.5	932.0	848.9	949.4	1187.5
130°	911.4	980.2	1218.3	1538.1	1681.2	1538.1	1218.3	980.2	911.4	1013.7	1218.3
132.5°	978.1	1039.5	1221.1	1496.9	1645.6	1496.9	1221.1	1039.5	978.1	1075.1	1253.9
135°	1038.1	1095.4	1236.4	1468.9	1589.0	1468.9	1236.4	1095.4	1038.1	1136.6	1290.2
137.5°	1099.6	1144.2	1249.0	1445.9	1548.5	1445.9	1249.0	1144.2	1099.6	1195.2	1315.3
140°	1154.4	1198.0	1274.8	1433.3	1517.8	1433.3	1274.8	1198.0	1154.4	1249.0	1348.8
142.5°	1207.8	1244.1	1300.0	1430.5	1492.0	1430.5	1300.0	1244.1	1207.8	1297.9	1379.6
145°	1258.1	1310.4	1333.5	1430.5	1479.4	1430.5	1333.5	1310.4	1258.1	1348.8	1412.4
147.5°	1309.0	1330.7	1361.4	1435.4	1468.9	1435.4	1361.4	1330.7	1309.0	1371.9	1456.4
150°	1355.1	1374.7	1397.0	1445.9	1468.9	1445.9	1397.0	1374.7	1355.1	1438.2	1487.1
152.5°	1396.0	1410.3	1430.5	1458.5	1479.4	1458.5	1430.5	1410.3	1396.0	1481.5	1527.6
155°	1434.4	1448.7	1458.5	1484.3	1489.2	1484.3	1458.5	1448.7	1434.4	1515.0	1561.1
157.5°	1471.4	1479.4	1484.3	1504.5	1510.1	1504.5	1484.3	1479.4	1471.4	1550.6	1586.9
160°	1501.1	1510.1	1507.3	1530.4	1527.6	1530.4	1507.3	1510.1	1501.1	1576.5	1614.9
162.5°	1531.8	1535.3	1535.3	1540.9	1545.7	1540.9	1535.3	1535.3	1531.8	1599.5	1632.3
165°	1553.4	1558.3	1556.2	1558.3	1561.1	1558.3	1556.2	1558.3	1553.4	1617.0	1650.5
167.5°	1575.1	1586.9	1571.6	1581.4	1573.7	1581.4	1571.6	1586.9	1575.1	1627.4	1663.1
170°	1593.2	1591.8	1586.9	1586.9	1584.2	1586.9	1586.9	1591.8	1593.2	1635.1	1663.1
172.5°	1606.1	1604.4	1596.7	1594.6	1591.8	1594.6	1596.7	1604.4	1606.1	1640.0	1658.2
175°	1617.3	1614.9	1604.4	1596.7	1596.7	1596.7	1604.4	1614.9	1617.3	1637.9	1645.6
177.5°	1621.2	1619.8	1612.1	1602.3	1599.5	1602.3	1612.1	1619.8	1621.2	1632.3	1635.1
180°	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9



TEST NUMBER: 18217
 CATALOG NUMBER: VW-SH-2T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1291.6	1291.6	1291.6	1291.6	1291.6	1291.6
2.5°	1279.7	1284.6	1279.7	1290.2	1295.1	1293.7
5°	1272.0	1274.8	1272.0	1279.7	1290.2	1288.4
7.5°	1244.1	1251.8	1244.1	1269.2	1272.0	1272.0
10°	1198.0	1207.8	1198.0	1241.3	1251.8	1255.3
12.5°	1139.4	1149.1	1139.4	1200.1	1230.8	1232.2
15°	1047.2	1064.6	1047.2	1147.0	1192.4	1204.3
17.5°	913.8	906.1	913.8	1077.9	1151.9	1177.1
20°	773.5	763.0	773.5	993.4	1103.1	1148.1
22.5°	617.1	586.3	617.1	873.3	1049.3	1114.9
25°	441.1	412.5	441.1	742.7	993.4	1079.0
27.5°	323.1	292.4	323.1	627.5	921.5	1039.2
30°	226.0	203.0	226.0	484.4	855.2	998.3
32.5°	161.8	169.5	161.8	366.4	767.9	953.6
35°	200.2	238.6	200.2	272.1	676.4	907.5
37.5°	272.1	297.3	272.1	205.8	568.9	852.7
40°	323.1	353.8	323.1	172.3	486.5	801.4
42.5°	404.8	489.3	404.8	198.1	395.0	742.4
45°	543.0	640.1	543.0	256.8	304.9	683.7
47.5°	555.6	635.2	555.6	297.3	238.6	621.3
50°	481.6	543.0	481.6	318.2	192.5	548.3
52.5°	358.7	381.7	358.7	341.3	175.1	480.2
55°	226.0	220.5	226.0	320.3	159.7	404.8
57.5°	113.6	105.9	113.6	254.0	146.4	322.0
60°	72.4	75.2	72.4	169.5	115.7	235.1
62.5°	52.2	54.3	52.2	92.7	75.2	158.3
65°	38.9	38.9	38.9	52.2	44.5	96.9
67.5°	29.1	34.0	29.1	34.0	29.1	57.1
70°	26.3	26.3	26.3	26.3	23.5	31.6
72.5°	21.4	23.5	21.4	21.4	18.7	17.6
75°	18.7	18.7	18.7	18.7	15.9	13.8
77.5°	15.9	18.7	15.9	13.8	13.8	12.4
80°	15.9	13.8	15.9	13.8	11.0	9.6
82.5°	8.2	11.0	8.2	11.0	6.1	8.2
85°	8.2	11.0	8.2	8.2	3.3	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°	26.3	61.9	26.3	67.5	31.2	14.8
95°	149.2	190.4	149.2	210.7	152.0	44.5
97.5°	320.3	369.2	320.3	381.7	297.3	83.9
100°	507.4	553.5	507.4	563.3	418.1	131.1
102.5°	596.8	752.5	596.8	727.4	453.7	185.2
105°	860.1	926.4	860.1	855.2	517.2	241.1
107.5°	1039.5	1105.8	1039.5	959.9	558.4	303.9
110°	1169.4	1233.6	1169.4	1010.9	607.3	371.6



TEST NUMBER: 18217
 CATALOG NUMBER: VW-SH-2T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1272.0	1351.6	1272.0	1044.4	655.5	436.9
115°	1318.1	1412.4	1318.1	1062.6	693.9	504.6
117.5°	1346.0	1441.0	1346.0	1080.0	752.5	576.2
120°	1361.4	1456.4	1361.4	1108.6	806.3	644.3
122.5°	1371.9	1461.3	1371.9	1133.8	852.4	714.1
125°	1374.7	1466.1	1374.7	1161.7	875.4	783.2
127.5°	1392.1	1466.1	1392.1	1187.5	949.4	848.9
130°	1402.6	1484.3	1402.6	1218.3	1013.7	911.4
132.5°	1410.3	1484.3	1410.3	1253.9	1075.1	978.1
135°	1412.4	1484.3	1412.4	1290.2	1136.6	1038.1
137.5°	1425.6	1484.3	1425.6	1315.3	1195.2	1099.6
140°	1448.7	1494.8	1448.7	1348.8	1249.0	1154.4
142.5°	1473.8	1512.2	1473.8	1379.6	1297.9	1207.8
145°	1492.0	1533.2	1492.0	1412.4	1348.8	1258.1
147.5°	1496.9	1543.0	1496.9	1456.4	1371.9	1309.0
150°	1517.8	1553.4	1517.8	1487.1	1438.2	1355.1
152.5°	1538.1	1561.1	1538.1	1527.6	1481.5	1396.0
155°	1566.0	1581.4	1566.0	1561.1	1515.0	1434.4
157.5°	1591.8	1604.4	1591.8	1586.9	1550.6	1471.4
160°	1612.1	1624.7	1612.1	1614.9	1576.5	1501.1
162.5°	1635.1	1642.8	1635.1	1632.3	1599.5	1531.8
165°	1653.3	1655.4	1653.3	1650.5	1617.0	1553.4
167.5°	1663.1	1661.0	1663.1	1663.1	1627.4	1575.1
170°	1665.8	1668.6	1665.8	1663.1	1635.1	1593.2
172.5°	1668.6	1670.7	1668.6	1658.2	1640.0	1606.1
175°	1658.2	1653.3	1658.2	1645.6	1637.9	1617.3
177.5°	1640.0	1630.2	1640.0	1635.1	1632.3	1621.2
180°	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9

(END OF REPORT)