

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: 14822

Luminaire Tested: **AW-SP-2T5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 14822  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: AW-SP-2T5  
Description: DIRECT INDIRECT WALL MOUNT LUMINAIRE WITH SPECULAR REFLECTOR AND  
WHITE OPAL ACRYLIC LENS OVER PERFORATIONS  
Light Source: TWO OSRAM 54 WATT FLUORESCENT LAMP  
  
FP54/841/HO. LUMEN RATING = 4500 LMS.  
  
Ballast/Driver: -

**Summary**

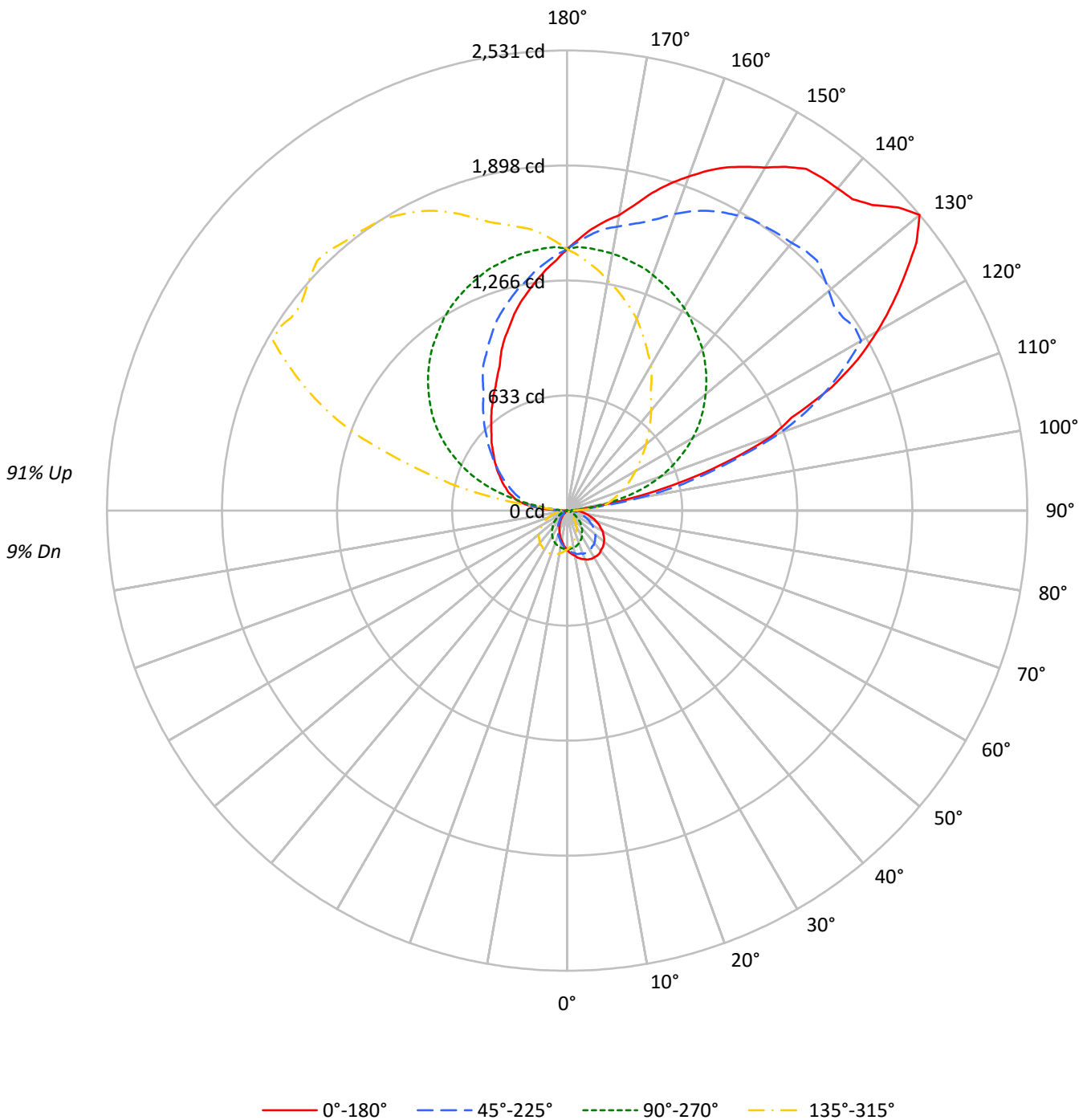
Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 6234.4 lumens  
Efficiency: 69.3%  
Efficacy: 52.0 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.14 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 0.51' x L: 3.67' x H: 0.29')  
CIE Type: Indirect

Input Watts (W): 120  
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: 14822  
CATALOG NUMBER: AW-SP-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	0
RCR																		
0	68	68	68	68	59	59	59	59	42	42	42	27	27	27	13	13	13	6
1	61	59	56	54	53	51	49	47	37	35	34	23	23	22	11	11	11	5
2	56	51	47	44	48	44	41	38	32	30	28	21	19	18	10	9	9	4
3	51	45	40	36	44	39	35	32	28	26	24	18	17	15	9	8	8	4
4	46	39	34	30	40	34	30	27	25	22	20	16	14	13	8	7	7	3
5	42	35	30	26	37	31	26	23	22	19	17	14	13	11	7	6	6	3
6	39	31	26	22	34	27	23	20	20	17	15	13	11	10	6	6	5	2
7	36	28	23	19	31	24	20	17	18	15	13	12	10	9	6	5	4	2
8	33	25	20	17	29	22	18	15	16	13	11	10	9	7	5	4	4	2
9	31	23	18	15	27	20	16	13	15	12	10	10	8	7	5	4	3	2
10	29	21	16	13	25	18	14	12	13	11	9	9	7	6	4	4	3	2

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

	0°	90°	180°	270°
0°	1236	1236	1236	1236
5°	1362	1162	1120	1162
10°	1455	1094	964	1094
15°	1588	1041	861	1041
20°	1693	972	716	972
25°	1804	891	612	891
30°	1889	813	509	813
35°	1979	711	384	711
40°	2023	636	282	636
45°	2109	552	209	552
50°	2165	453	143	453
55°	2208	354	72	354
60°	2272	283	81	283
65°	2297	224	29	224
70°	2313	77	7	77
75°	2358	38	9	38
80°	2458	23	11	23
85°	2781	4	17	4



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 CATALOG NUMBER: AW-SP-2T5

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	20.1	0.3	0.2
10°-20°	57.2	0.9	0.6
20°-30°	85.7	1.4	1.0
30°-40°	99.9	1.6	1.1
40°-50°	100.1	1.6	1.1
50°-60°	88.0	1.4	1.0
60°-70°	66.5	1.1	0.7
70°-80°	43.7	0.7	0.5
80°-90°	23.4	0.4	0.3
90°-100°	138.9	2.2	1.5
100°-110°	551.0	8.8	6.1
110°-120°	885.4	14.2	9.8
120°-130°	1040.9	16.7	11.6
130°-140°	991.3	15.9	11.0
140°-150°	850.2	13.6	9.4
150°-160°	650.1	10.4	7.2
160°-170°	404.7	6.5	4.5
170°-180°	137.3	2.2	1.5
0°-30°	163.0	2.6	1.8
0°-40°	262.8	4.2	2.9
0°-60°	451.0	7.2	5.0
0°-90°	584.6	9.4	6.5
90°-120°	1575.3	25.3	17.5
90°-150°	4457.7	71.5	49.5
90°-180°	5650.0	90.6	62.8
0°-180°	6234.4	100.0	69.3

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	215	215	215	215	215	
5°	238	211	195	211	238	23
15°	272	202	148	202	272	77
25°	295	178	100	178	295	136
35°	298	142	58	142	298	186
45°	280	106	28	106	280	215
55°	245	64	8	64	245	220
65°	197	37	2	37	197	194
75°	137	5	0	5	137	145
85°	80	0	0	0	80	71
90°	54	0	0	0	54	31
95°	88	46	133	46	88	96
105°	736	390	312	390	736	776
115°	1605	678	400	678	1605	1565
125°	2271	902	490	902	2271	2028
135°	2376	1081	589	1081	2376	1859
145°	2294	1223	716	1223	2294	1429
155°	2084	1337	879	1337	2084	964
165°	1809	1410	1120	1410	1809	516
175°	1555	1448	1330	1448	1555	151
180°	1439	1439	1439	1439	1439	



TEST NUMBER: 14822  
 CATALOG NUMBER: AW-SP-2T5

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	215.0	215.0	215.0	215.0	215.0	215.0	215.0	215.0	215.0	215.0	215.0
2.5°	227.4	224.6	219.9	217.1	213.7	207.6	207.6	200.1	204.9	200.1	207.6
5°	237.6	230.1	227.4	217.1	211.3	200.1	200.1	189.9	195.3	189.9	200.1
7.5°	245.1	239.6	234.8	219.9	208.6	195.3	189.9	177.6	180.3	177.6	189.9
10°	252.6	249.8	237.6	224.6	206.2	189.9	180.3	165.4	167.4	165.4	180.3
12.5°	264.8	254.6	245.1	230.1	203.9	182.4	172.9	155.1	159.9	155.1	172.9
15°	272.3	260.1	247.1	222.6	201.5	174.9	159.9	144.9	147.6	144.9	159.9
17.5°	279.8	264.8	247.1	222.6	195.0	170.1	150.4	132.7	135.4	132.7	150.4
20°	284.6	272.3	252.6	219.9	191.6	157.9	142.9	120.4	120.4	120.4	142.9
22.5°	292.1	279.8	254.6	219.9	183.8	152.4	132.7	112.9	112.9	112.9	132.7
25°	294.8	284.6	252.6	217.1	177.6	137.4	122.4	97.9	100.0	97.9	122.4
27.5°	297.5	279.8	252.6	209.6	171.5	132.7	112.9	90.4	90.4	90.4	112.9
30°	297.5	282.5	252.6	204.9	162.6	120.4	100.0	77.5	80.2	77.5	100.0
32.5°	297.5	282.5	247.1	202.8	153.8	110.2	90.4	67.9	70.0	67.9	90.4
35°	297.5	277.1	239.6	200.1	141.5	100.0	77.5	57.7	57.7	57.7	77.5
37.5°	294.8	279.8	239.6	189.9	136.4	87.7	65.2	50.2	50.2	50.2	65.2
40°	287.3	277.1	232.1	180.3	125.2	82.9	57.7	42.7	40.0	42.7	57.7
42.5°	282.5	267.5	227.4	172.9	117.7	70.0	53.0	32.5	35.2	32.5	53.0
45°	279.8	262.1	217.1	162.6	106.4	62.5	42.7	30.5	27.7	30.5	42.7
47.5°	272.3	254.6	212.4	155.1	97.9	55.0	32.5	25.0	20.3	25.0	32.5
50°	264.8	247.1	200.1	144.9	85.0	42.7	27.7	17.5	17.5	17.5	27.7
52.5°	257.3	242.3	192.6	135.4	75.4	35.2	23.0	10.0	15.5	10.0	23.0
55°	245.1	230.1	180.3	127.9	63.9	30.5	15.5	12.8	8.0	12.8	15.5
57.5°	234.8	217.1	170.1	114.9	56.4	25.0	15.5	8.0	8.0	8.0	15.5
60°	224.6	207.6	159.9	100.0	48.9	15.5	8.0	2.5	8.0	2.5	8.0
62.5°	207.6	195.3	142.9	90.4	42.7	12.8	5.3	5.3	5.3	5.3	5.3
65°	197.4	182.4	135.4	77.5	36.6	8.0	0.5	0.5	2.5	0.5	0.5
67.5°	182.4	170.1	120.4	70.0	15.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	167.4	157.9	107.5	57.7	11.7	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	155.1	142.9	95.2	50.2	10.4	2.5	0.5	0.5	0.5	0.5	0.5
75°	137.4	127.9	82.9	42.7	5.3	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	120.4	110.2	67.9	38.0	5.3	0.5	0.5	0.5	0.5	0.5	0.5
80°	107.5	97.9	57.7	30.5	2.9	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	92.5	85.0	50.2	23.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	80.2	75.4	38.0	20.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	65.2	57.7	30.5	10.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	53.6	42.7	20.3	8.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	50.2	50.2	27.7	27.7	15.1	45.5	67.9	30.5	50.2	30.5	67.9
95°	87.7	80.2	55.0	185.1	46.5	110.2	147.6	112.9	132.7	112.9	147.6
97.5°	100.0	180.3	192.6	369.7	121.4	129.9	195.3	195.3	212.4	195.3	195.3
100°	279.8	494.4	404.5	659.3	212.4	155.1	227.4	245.1	260.1	245.1	227.4
102.5°	499.2	602.0	619.1	731.5	297.2	165.4	247.1	257.3	292.1	257.3	247.1
105°	736.2	828.9	803.7	869.1	389.8	212.4	269.6	297.5	312.5	297.5	269.6
107.5°	973.3	1048.2	1013.5	976.0	471.9	242.3	297.5	317.3	339.8	317.3	297.5
110°	1198.1	1168.1	1245.8	1010.8	547.9	279.8	322.0	339.8	357.5	339.8	322.0



TEST NUMBER: 14822  
 CATALOG NUMBER: AW-SP-2T5

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1335.7	1427.7	1425.0	1073.5	615.7	320.0	347.3	365.0	380.0	365.0	347.3
115°	1604.8	1647.1	1582.3	1168.1	677.7	365.0	377.2	387.4	399.7	387.4	377.2
117.5°	1804.4	1837.1	1727.4	1247.9	740.3	404.5	404.5	409.9	419.5	409.9	404.5
120°	1969.3	2009.5	1867.1	1295.5	796.5	449.4	434.5	432.4	444.7	432.4	434.5
122.5°	2123.9	2206.4	1876.6	1365.0	851.4	497.1	461.7	454.2	464.4	454.2	461.7
125°	2271.1	2275.8	1852.1	1385.5	902.1	519.6	497.1	467.1	489.6	467.1	497.1
127.5°	2420.9	2365.8	1849.4	1427.7	948.4	594.5	529.1	506.7	509.4	506.7	529.1
130°	2530.6	2293.6	1879.4	1462.4	993.4	654.5	566.6	536.6	536.6	536.6	566.6
132.5°	2468.6	2239.1	1912.1	1492.4	1038.4	724.0	599.3	559.1	564.6	559.1	599.3
135°	2376.0	2221.3	1944.1	1514.9	1080.9	779.2	639.5	591.8	589.1	591.8	639.5
137.5°	2323.5	2221.3	1939.3	1529.9	1119.4	828.9	679.0	621.8	617.0	621.8	679.0
140°	2313.3	2218.6	1921.6	1542.8	1158.3	884.1	719.2	654.5	649.0	654.5	719.2
142.5°	2305.8	2213.8	1914.1	1547.6	1189.6	933.8	758.7	689.2	683.8	689.2	758.7
145°	2293.6	2141.6	1904.6	1552.4	1223.0	986.3	801.6	726.7	716.5	726.7	801.6
147.5°	2241.1	2119.2	1897.1	1550.3	1258.1	1006.0	863.6	743.7	754.0	743.7	863.6
150°	2179.1	2079.0	1874.6	1542.8	1286.7	1078.2	923.6	803.7	786.7	803.7	923.6
152.5°	2131.4	2044.2	1849.4	1540.1	1312.9	1115.7	965.8	846.6	831.6	846.6	965.8
155°	2083.7	1996.5	1819.4	1540.1	1336.8	1153.2	1018.3	908.6	878.6	908.6	1018.3
157.5°	2023.8	1939.3	1781.9	1544.9	1357.5	1193.4	1068.7	971.3	946.1	971.3	1068.7
160°	1954.3	1876.6	1737.0	1547.6	1379.0	1230.8	1120.5	1021.0	1006.0	1021.0	1120.5
162.5°	1886.9	1811.9	1684.5	1552.4	1399.1	1262.8	1163.4	1076.2	1058.5	1076.2	1163.4
165°	1809.2	1737.0	1642.3	1550.3	1410.3	1298.3	1205.6	1130.7	1120.5	1130.7	1205.6
167.5°	1722.0	1637.5	1612.3	1535.3	1424.0	1328.2	1247.9	1183.1	1175.6	1183.1	1247.9
170°	1649.8	1617.1	1585.1	1527.8	1435.2	1337.8	1285.3	1202.9	1225.4	1202.9	1285.3
172.5°	1604.8	1577.6	1562.6	1507.4	1441.7	1382.7	1330.3	1275.8	1277.8	1275.8	1330.3
175°	1555.1	1532.6	1525.1	1490.4	1447.8	1402.5	1367.7	1330.3	1330.3	1330.3	1367.7
177.5°	1495.1	1477.4	1482.9	1465.2	1451.5	1425.0	1405.2	1375.2	1378.0	1375.2	1405.2
180°	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6



TEST NUMBER: 14822  
 CATALOG NUMBER: AW-SP-2T5

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	215.0	215.0	215.0	215.0	215.0	215.0
2.5°	207.6	213.7	217.1	219.9	224.6	227.4
5°	200.1	211.3	217.1	227.4	230.1	237.6
7.5°	195.3	208.6	219.9	234.8	239.6	245.1
10°	189.9	206.2	224.6	237.6	249.8	252.6
12.5°	182.4	203.9	230.1	245.1	254.6	264.8
15°	174.9	201.5	222.6	247.1	260.1	272.3
17.5°	170.1	195.0	222.6	247.1	264.8	279.8
20°	157.9	191.6	219.9	252.6	272.3	284.6
22.5°	152.4	183.8	219.9	254.6	279.8	292.1
25°	137.4	177.6	217.1	252.6	284.6	294.8
27.5°	132.7	171.5	209.6	252.6	279.8	297.5
30°	120.4	162.6	204.9	252.6	282.5	297.5
32.5°	110.2	153.8	202.8	247.1	282.5	297.5
35°	100.0	141.5	200.1	239.6	277.1	297.5
37.5°	87.7	136.4	189.9	239.6	279.8	294.8
40°	82.9	125.2	180.3	232.1	277.1	287.3
42.5°	70.0	117.7	172.9	227.4	267.5	282.5
45°	62.5	106.4	162.6	217.1	262.1	279.8
47.5°	55.0	97.9	155.1	212.4	254.6	272.3
50°	42.7	85.0	144.9	200.1	247.1	264.8
52.5°	35.2	75.4	135.4	192.6	242.3	257.3
55°	30.5	63.9	127.9	180.3	230.1	245.1
57.5°	25.0	56.4	114.9	170.1	217.1	234.8
60°	15.5	48.9	100.0	159.9	207.6	224.6
62.5°	12.8	42.7	90.4	142.9	195.3	207.6
65°	8.0	36.6	77.5	135.4	182.4	197.4
67.5°	0.5	15.5	70.0	120.4	170.1	182.4
70°	0.5	11.7	57.7	107.5	157.9	167.4
72.5°	2.5	10.4	50.2	95.2	142.9	155.1
75°	0.5	5.3	42.7	82.9	127.9	137.4
77.5°	0.5	5.3	38.0	67.9	110.2	120.4
80°	0.5	2.9	30.5	57.7	97.9	107.5
82.5°	0.5	0.5	23.0	50.2	85.0	92.5
85°	0.5	0.5	20.3	38.0	75.4	80.2
87.5°	0.5	0.5	10.0	30.5	57.7	65.2
90°	0.5	0.5	8.7	20.3	42.7	53.6
92.5°	45.5	15.1	27.7	27.7	50.2	50.2
95°	110.2	46.5	185.1	55.0	80.2	87.7
97.5°	129.9	121.4	369.7	192.6	180.3	100.0
100°	155.1	212.4	659.3	404.5	494.4	279.8
102.5°	165.4	297.2	731.5	619.1	602.0	499.2
105°	212.4	389.8	869.1	803.7	828.9	736.2
107.5°	242.3	471.9	976.0	1013.5	1048.2	973.3
110°	279.8	547.9	1010.8	1245.8	1168.1	1198.1





TEST NUMBER: 14822  
 CATALOG NUMBER: AW-SP-2T5

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	320.0	615.7	1073.5	1425.0	1427.7	1335.7
115°	365.0	677.7	1168.1	1582.3	1647.1	1604.8
117.5°	404.5	740.3	1247.9	1727.4	1837.1	1804.4
120°	449.4	796.5	1295.5	1867.1	2009.5	1969.3
122.5°	497.1	851.4	1365.0	1876.6	2206.4	2123.9
125°	519.6	902.1	1385.5	1852.1	2275.8	2271.1
127.5°	594.5	948.4	1427.7	1849.4	2365.8	2420.9
130°	654.5	993.4	1462.4	1879.4	2293.6	2530.6
132.5°	724.0	1038.4	1492.4	1912.1	2239.1	2468.6
135°	779.2	1080.9	1514.9	1944.1	2221.3	2376.0
137.5°	828.9	1119.4	1529.9	1939.3	2221.3	2323.5
140°	884.1	1158.3	1542.8	1921.6	2218.6	2313.3
142.5°	933.8	1189.6	1547.6	1914.1	2213.8	2305.8
145°	986.3	1223.0	1552.4	1904.6	2141.6	2293.6
147.5°	1006.0	1258.1	1550.3	1897.1	2119.2	2241.1
150°	1078.2	1286.7	1542.8	1874.6	2079.0	2179.1
152.5°	1115.7	1312.9	1540.1	1849.4	2044.2	2131.4
155°	1153.2	1336.8	1540.1	1819.4	1996.5	2083.7
157.5°	1193.4	1357.5	1544.9	1781.9	1939.3	2023.8
160°	1230.8	1379.0	1547.6	1737.0	1876.6	1954.3
162.5°	1262.8	1399.1	1552.4	1684.5	1811.9	1886.9
165°	1298.3	1410.3	1550.3	1642.3	1737.0	1809.2
167.5°	1328.2	1424.0	1535.3	1612.3	1637.5	1722.0
170°	1337.8	1435.2	1527.8	1585.1	1617.1	1649.8
172.5°	1382.7	1441.7	1507.4	1562.6	1577.6	1604.8
175°	1402.5	1447.8	1490.4	1525.1	1532.6	1555.1
177.5°	1425.0	1451.5	1465.2	1482.9	1477.4	1495.1
180°	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6

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