

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: 19104

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 19104
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AW-WE-2T5
Description: CLASS A DIRECT/INDIRECT WALL LUMINAIRE WITH WHITE INTERIOR AND 18
CELL WHITE PERF AND DIFFUSE CUT-OFF LOUVER
Light Source: TWO SYLVANIA 54 WATT T5 LAMPS

FP54/841HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

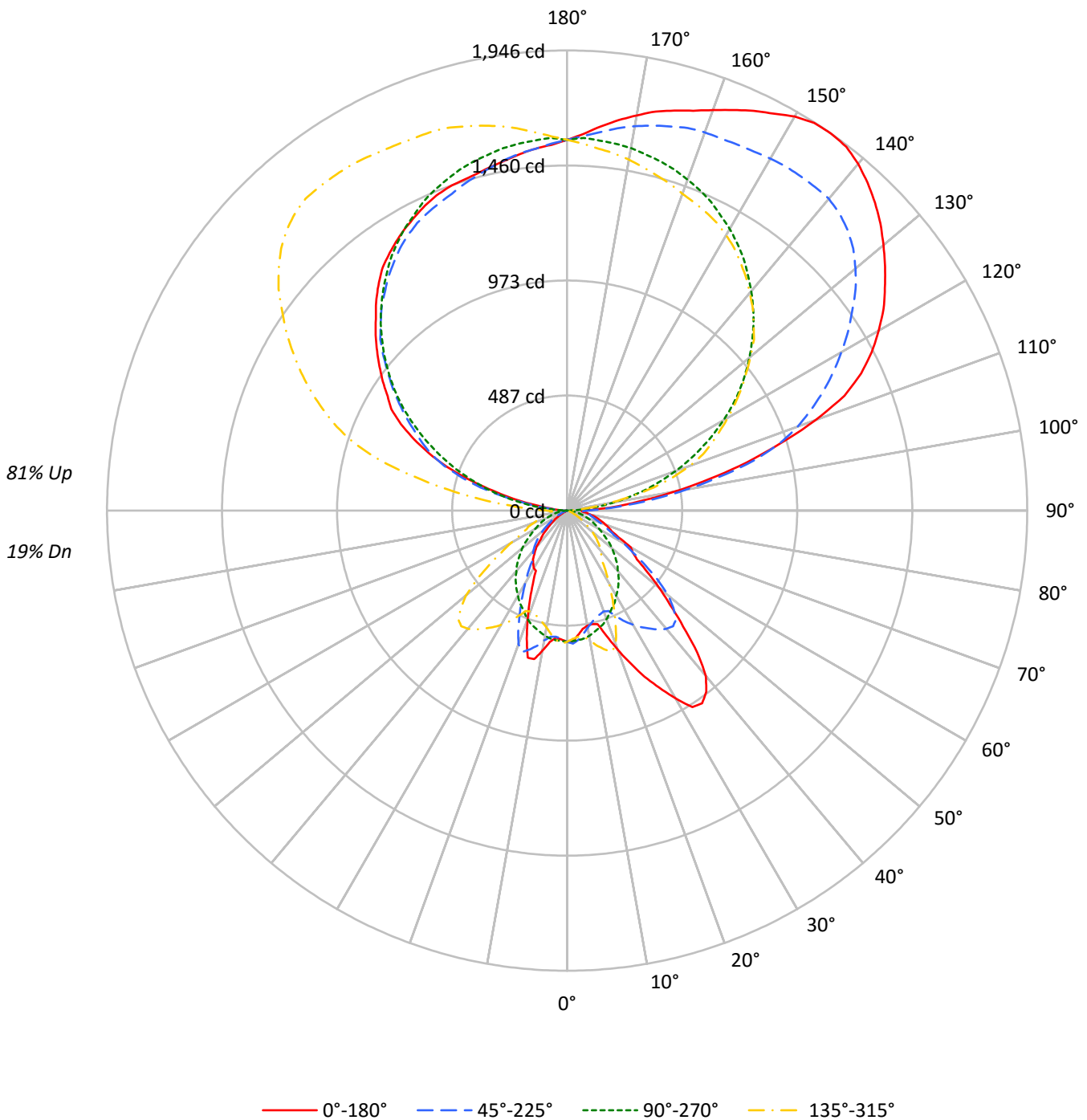
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 7501.2 lumens
Efficiency: 83.3%
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 1.59 / 1.13 / 1.46
Luminous Opening: Rectangular w/ Sides (W: 0.19' x L: 3' x H: 0.09')
CIE Type: Semi-Indirect

Input Watts (W): 128
Input Voltage (V): NR
Input Current (A_{in}): 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: AW-WE-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	83	83	83	83	73	73	73	73	55	55	55	39	39	39	23	23	23	16
1	76	72	69	67	67	64	61	59	48	47	45	34	33	32	21	20	20	14
2	69	63	58	54	61	56	52	49	42	40	37	30	28	27	18	17	17	12
3	63	56	50	45	55	49	45	41	37	34	32	26	24	23	16	15	14	10
4	58	49	43	38	51	44	38	34	33	30	27	23	21	19	14	13	12	9
5	53	44	37	33	46	39	33	29	30	26	23	21	19	17	13	12	11	7
6	48	39	33	28	43	35	29	25	27	23	20	19	16	15	12	10	9	7
7	45	35	29	24	39	31	26	22	24	20	17	17	15	13	11	9	8	6
8	41	32	26	21	36	28	23	19	22	18	15	16	13	11	10	8	7	5
9	38	29	23	19	34	26	21	17	20	16	14	14	12	10	9	8	7	5
10	36	26	20	17	31	23	18	15	18	15	12	13	11	9	8	7	6	4

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10479	10479	10479	10479
5°	9988	10018	10177	10018
10°	9429	9526	11477	9526
15°	9639	8934	12486	8934
20°	12452	8370	9681	8370
25°	15929	7707	7044	7707
30°	19664	7104	6032	7104
35°	22475	6547	5692	6547
40°	21930	5876	4891	5876
45°	18007	5281	3749	5281
50°	14437	4646	2720	4646
55°	11372	3902	1787	3902
60°	11159	3263	808	3263
65°	8732	2718	218	2718
70°	8774	2181	265	2181
75°	9009	1658	210	1658
80°	9349	1165	46	1165
85°	11165	547	81	547



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	51.8	0.7	0.6
10°-20°	150.9	2.0	1.7
20°-30°	228.2	3.0	2.5
30°-40°	292.9	3.9	3.3
40°-50°	287.2	3.8	3.2
50°-60°	201.1	2.7	2.2
60°-70°	120.2	1.6	1.3
70°-80°	68.3	0.9	0.8
80°-90°	38.3	0.5	0.4
90°-100°	168.1	2.2	1.9
100°-110°	582.2	7.8	6.5
110°-120°	916.9	12.2	10.2
120°-130°	1059.0	14.1	11.8
130°-140°	1071.4	14.3	11.9
140°-150°	946.6	12.6	10.5
150°-160°	721.2	9.6	8.0
160°-170°	446.7	6.0	5.0
170°-180°	150.3	2.0	1.7
0°-30°	430.9	5.7	4.8
0°-40°	723.8	9.6	8.0
0°-60°	1212.1	16.2	13.5
0°-90°	1438.9	19.2	16.0
90°-120°	1667.2	22.2	18.5
90°-150°	4744.2	63.2	52.7
90°-180°	6062.0	80.8	67.4
0°-180°	7501.2	100.0	83.3

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	555	555	555	555	555	
5°	528	550	538	550	528	49
15°	497	515	644	515	497	151
25°	775	452	343	452	775	361
35°	995	378	252	378	995	606
45°	694	291	145	291	694	539
55°	360	199	57	199	360	341
65°	208	123	5	123	208	219
75°	137	63	3	63	137	145
85°	69	16	0	16	69	65
90°	73	0	0	0	73	45
95°	215	74	42	74	215	225
105°	785	346	326	346	785	827
115°	1372	626	714	626	1372	1341
125°	1641	891	951	891	1641	1469
135°	1841	1115	1144	1115	1841	1421
145°	1946	1301	1318	1301	1946	1217
155°	1866	1440	1423	1440	1866	864
165°	1751	1528	1475	1528	1751	498
175°	1631	1571	1536	1571	1631	158
180°	1567	1567	1567	1567	1567	



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 CATALOG NUMBER: AW-WE-2T5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9
2.5°	553.0	557.7	563.0	563.0	551.7	548.4	543.0	535.7	545.7	535.7	543.0
5°	528.3	538.3	548.4	563.0	550.4	541.0	535.7	538.3	538.3	538.3	535.7
7.5°	504.3	521.0	526.3	560.4	545.7	535.7	538.3	563.0	560.4	563.0	538.3
10°	494.3	491.6	501.6	543.0	538.3	531.0	557.7	601.7	601.7	601.7	557.7
12.5°	491.6	484.3	484.3	526.3	526.3	526.3	585.1	643.8	643.8	643.8	585.1
15°	497.0	477.0	467.6	506.3	515.0	528.3	607.1	638.4	643.8	638.4	607.1
17.5°	555.7	477.0	460.3	489.6	504.3	526.3	626.4	563.0	567.7	563.0	626.4
20°	626.4	538.3	452.9	464.9	488.3	531.0	601.7	491.6	487.0	491.6	601.7
22.5°	697.2	604.4	460.3	442.9	469.9	523.7	538.3	418.9	413.6	418.9	538.3
25°	775.2	663.1	494.3	426.2	451.6	521.0	472.3	350.2	342.8	350.2	472.3
27.5°	844.0	721.9	528.3	408.9	436.9	509.0	411.6	281.4	286.8	281.4	411.6
30°	917.4	775.2	557.7	391.5	414.9	489.6	354.8	274.1	281.4	274.1	354.8
32.5°	985.4	834.0	585.1	379.5	397.9	452.9	303.5	262.1	266.8	262.1	303.5
35°	995.4	880.7	609.1	364.8	378.2	404.2	254.7	244.7	252.1	244.7	254.7
37.5°	966.1	907.4	633.8	350.2	357.5	352.8	237.4	228.0	225.4	228.0	237.4
40°	912.0	882.7	653.1	347.5	333.1	308.8	222.7	201.4	203.4	201.4	222.7
42.5°	814.6	829.3	663.1	345.5	314.8	272.1	203.4	169.3	166.7	169.3	203.4
45°	694.5	745.9	650.4	342.8	291.4	235.4	181.3	140.0	144.6	140.0	181.3
47.5°	589.7	643.8	609.1	338.2	268.4	203.4	159.3	120.6	115.3	120.6	159.3
50°	509.0	531.0	557.7	332.8	247.4	172.0	137.3	91.3	95.9	91.3	137.3
52.5°	428.2	454.9	484.3	320.8	225.4	152.0	113.3	76.6	73.9	76.6	113.3
55°	360.2	379.5	404.2	306.1	198.7	130.0	88.6	54.6	56.6	54.6	88.6
57.5°	328.1	320.8	330.8	286.8	176.7	115.3	73.9	39.9	34.5	39.9	73.9
60°	310.8	274.1	274.1	264.8	157.3	95.9	56.6	22.5	22.5	22.5	56.6
62.5°	244.7	266.8	222.7	240.1	137.6	81.2	41.9	10.5	7.8	10.5	41.9
65°	208.0	218.0	191.3	210.7	122.6	63.9	29.9	5.2	5.2	5.2	29.9
67.5°	191.3	179.3	176.7	181.3	105.9	49.2	17.8	3.2	7.8	3.2	17.8
70°	172.0	166.7	144.6	152.0	90.9	37.2	10.5	3.2	5.2	3.2	10.5
72.5°	154.6	150.0	128.0	122.6	75.2	22.5	5.2	0.5	5.2	0.5	5.2
75°	137.3	135.3	115.3	105.9	62.9	12.5	5.2	0.5	3.2	0.5	5.2
77.5°	120.6	122.6	103.3	91.3	50.5	7.8	3.2	0.5	3.2	0.5	3.2
80°	100.6	110.6	95.9	81.2	39.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	88.6	95.9	81.2	69.2	29.9	0.5	0.5	0.5	0.5	0.5	0.5
85°	69.2	85.9	73.9	56.6	16.2	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	61.9	73.9	63.9	47.2	2.8	0.5	0.5	0.5	0.5	0.5	0.5
90°	72.6	69.9	82.6	56.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	120.6	166.7	142.6	174.0	20.2	15.2	22.5	15.2	27.2	15.2	22.5
95°	215.4	257.4	242.7	272.1	73.9	32.5	41.9	39.9	41.9	39.9	41.9
97.5°	320.8	384.2	367.5	408.9	136.3	76.6	100.6	59.2	73.9	59.2	100.6
100°	460.3	614.4	511.7	638.4	204.7	159.3	181.3	125.3	142.6	125.3	181.3
102.5°	616.4	694.5	660.5	714.5	274.4	201.4	274.1	162.0	232.7	162.0	274.1
105°	785.2	851.3	817.3	858.6	345.5	352.8	379.5	306.1	325.5	306.1	379.5
107.5°	946.7	1017.5	941.4	961.4	414.9	442.9	467.6	406.2	432.9	406.2	467.6
110°	1117.6	1171.6	1036.8	1049.5	488.3	526.3	553.0	504.3	541.0	504.3	553.0



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CATALOG NUMBER: AW-WE-2T5

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1269.0	1271.7	1117.6	1127.6	558.0	601.7	621.8	604.4	631.1	604.4	621.8
115°	1371.8	1352.4	1195.6	1205.6	626.4	653.1	675.1	682.5	714.5	682.5	675.1
117.5°	1452.5	1425.9	1269.0	1274.4	696.2	709.2	726.5	770.6	792.6	770.6	726.5
120°	1521.3	1499.3	1339.8	1352.4	763.2	765.9	785.2	821.9	858.6	821.9	785.2
122.5°	1586.7	1594.0	1408.5	1459.9	829.3	824.6	841.3	873.3	900.0	873.3	841.3
125°	1640.7	1618.7	1471.9	1486.6	891.3	851.3	900.0	895.3	951.4	895.3	900.0
127.5°	1694.8	1674.8	1538.0	1545.3	949.1	936.7	954.1	973.4	1000.1	973.4	954.1
130°	1746.2	1728.8	1592.0	1599.3	1006.5	992.8	1012.8	1022.1	1049.5	1022.1	1012.8
132.5°	1796.9	1777.5	1640.7	1640.7	1060.5	1049.5	1071.5	1073.5	1098.2	1073.5	1071.5
135°	1840.9	1824.2	1677.4	1672.8	1115.2	1100.2	1114.9	1124.9	1144.3	1124.9	1114.9
137.5°	1880.3	1858.3	1704.1	1689.4	1164.3	1142.2	1161.6	1173.6	1195.6	1173.6	1161.6
140°	1914.3	1885.0	1721.5	1696.8	1211.6	1188.3	1201.0	1225.0	1242.3	1225.0	1201.0
142.5°	1939.0	1897.6	1724.1	1699.4	1255.7	1227.7	1242.3	1264.4	1286.4	1264.4	1242.3
145°	1946.3	1892.3	1724.1	1702.1	1301.1	1269.0	1279.0	1298.4	1317.7	1298.4	1279.0
147.5°	1943.7	1890.3	1724.1	1704.1	1338.8	1286.4	1315.7	1313.1	1347.1	1313.1	1315.7
150°	1924.3	1862.9	1718.8	1699.4	1375.5	1335.1	1345.1	1357.1	1374.5	1357.1	1345.1
152.5°	1892.3	1838.9	1711.5	1699.4	1406.2	1361.8	1371.8	1383.8	1398.5	1383.8	1371.8
155°	1865.6	1814.2	1706.8	1694.8	1440.2	1381.8	1391.2	1408.5	1423.2	1408.5	1391.2
157.5°	1833.6	1789.5	1702.1	1694.8	1466.2	1401.2	1408.5	1430.5	1442.5	1430.5	1408.5
160°	1802.2	1765.5	1702.1	1694.8	1489.2	1418.5	1425.9	1442.5	1457.2	1442.5	1425.9
162.5°	1772.8	1743.5	1696.8	1684.8	1511.3	1442.5	1447.9	1452.5	1464.6	1452.5	1447.9
165°	1750.8	1728.8	1682.1	1674.8	1528.3	1462.6	1467.2	1464.6	1474.6	1464.6	1467.2
167.5°	1728.8	1689.4	1667.4	1652.7	1541.6	1484.6	1486.6	1486.6	1489.2	1486.6	1486.6
170°	1696.8	1677.4	1650.7	1643.4	1556.3	1493.9	1506.6	1491.9	1503.9	1491.9	1506.6
172.5°	1665.4	1645.4	1630.7	1623.4	1565.0	1518.6	1523.3	1521.3	1521.3	1521.3	1523.3
175°	1630.7	1614.0	1606.7	1599.3	1571.0	1536.0	1536.0	1533.3	1536.0	1533.3	1536.0
177.5°	1594.0	1582.0	1584.7	1577.3	1577.3	1545.3	1552.6	1542.6	1548.0	1542.6	1552.6
180°	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3



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CATALOG NUMBER: AW-WE-2T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	554.9	554.9	554.9	554.9	554.9	554.9
2.5°	548.4	551.7	563.0	563.0	557.7	553.0
5°	541.0	550.4	563.0	548.4	538.3	528.3
7.5°	535.7	545.7	560.4	526.3	521.0	504.3
10°	531.0	538.3	543.0	501.6	491.6	494.3
12.5°	526.3	526.3	526.3	484.3	484.3	491.6
15°	528.3	515.0	506.3	467.6	477.0	497.0
17.5°	526.3	504.3	489.6	460.3	477.0	555.7
20°	531.0	488.3	464.9	452.9	538.3	626.4
22.5°	523.7	469.9	442.9	460.3	604.4	697.2
25°	521.0	451.6	426.2	494.3	663.1	775.2
27.5°	509.0	436.9	408.9	528.3	721.9	844.0
30°	489.6	414.9	391.5	557.7	775.2	917.4
32.5°	452.9	397.9	379.5	585.1	834.0	985.4
35°	404.2	378.2	364.8	609.1	880.7	995.4
37.5°	352.8	357.5	350.2	633.8	907.4	966.1
40°	308.8	333.1	347.5	653.1	882.7	912.0
42.5°	272.1	314.8	345.5	663.1	829.3	814.6
45°	235.4	291.4	342.8	650.4	745.9	694.5
47.5°	203.4	268.4	338.2	609.1	643.8	589.7
50°	172.0	247.4	332.8	557.7	531.0	509.0
52.5°	152.0	225.4	320.8	484.3	454.9	428.2
55°	130.0	198.7	306.1	404.2	379.5	360.2
57.5°	115.3	176.7	286.8	330.8	320.8	328.1
60°	95.9	157.3	264.8	274.1	274.1	310.8
62.5°	81.2	137.6	240.1	222.7	266.8	244.7
65°	63.9	122.6	210.7	191.3	218.0	208.0
67.5°	49.2	105.9	181.3	176.7	179.3	191.3
70°	37.2	90.9	152.0	144.6	166.7	172.0
72.5°	22.5	75.2	122.6	128.0	150.0	154.6
75°	12.5	62.9	105.9	115.3	135.3	137.3
77.5°	7.8	50.5	91.3	103.3	122.6	120.6
80°	0.5	39.5	81.2	95.9	110.6	100.6
82.5°	0.5	29.9	69.2	81.2	95.9	88.6
85°	0.5	16.2	56.6	73.9	85.9	69.2
87.5°	0.5	2.8	47.2	63.9	73.9	61.9
90°	0.5	0.5	56.6	82.6	69.9	72.6
92.5°	15.2	20.2	174.0	142.6	166.7	120.6
95°	32.5	73.9	272.1	242.7	257.4	215.4
97.5°	76.6	136.3	408.9	367.5	384.2	320.8
100°	159.3	204.7	638.4	511.7	614.4	460.3
102.5°	201.4	274.4	714.5	660.5	694.5	616.4
105°	352.8	345.5	858.6	817.3	851.3	785.2
107.5°	442.9	414.9	961.4	941.4	1017.5	946.7
110°	526.3	488.3	1049.5	1036.8	1171.6	1117.6



TEST NUMBER: 19104

CATALOG NUMBER: AW-WE-2T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	601.7	558.0	1127.6	1117.6	1271.7	1269.0
115°	653.1	626.4	1205.6	1195.6	1352.4	1371.8
117.5°	709.2	696.2	1274.4	1269.0	1425.9	1452.5
120°	765.9	763.2	1352.4	1339.8	1499.3	1521.3
122.5°	824.6	829.3	1459.9	1408.5	1594.0	1586.7
125°	851.3	891.3	1486.6	1471.9	1618.7	1640.7
127.5°	936.7	949.1	1545.3	1538.0	1674.8	1694.8
130°	992.8	1006.5	1599.3	1592.0	1728.8	1746.2
132.5°	1049.5	1060.5	1640.7	1640.7	1777.5	1796.9
135°	1100.2	1115.2	1672.8	1677.4	1824.2	1840.9
137.5°	1142.2	1164.3	1689.4	1704.1	1858.3	1880.3
140°	1188.3	1211.6	1696.8	1721.5	1885.0	1914.3
142.5°	1227.7	1255.7	1699.4	1724.1	1897.6	1939.0
145°	1269.0	1301.1	1702.1	1724.1	1892.3	1946.3
147.5°	1286.4	1338.8	1704.1	1724.1	1890.3	1943.7
150°	1335.1	1375.5	1699.4	1718.8	1862.9	1924.3
152.5°	1361.8	1406.2	1699.4	1711.5	1838.9	1892.3
155°	1381.8	1440.2	1694.8	1706.8	1814.2	1865.6
157.5°	1401.2	1466.2	1694.8	1702.1	1789.5	1833.6
160°	1418.5	1489.2	1694.8	1702.1	1765.5	1802.2
162.5°	1442.5	1511.3	1684.8	1696.8	1743.5	1772.8
165°	1462.6	1528.3	1674.8	1682.1	1728.8	1750.8
167.5°	1484.6	1541.6	1652.7	1667.4	1689.4	1728.8
170°	1493.9	1556.3	1643.4	1650.7	1677.4	1696.8
172.5°	1518.6	1565.0	1623.4	1630.7	1645.4	1665.4
175°	1536.0	1571.0	1599.3	1606.7	1614.0	1630.7
177.5°	1545.3	1577.3	1577.3	1584.7	1582.0	1594.0
180°	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3

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