

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P709266

Luminaire Tested: DL2W-BB-M-075U-050D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709266
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-3, G3-2104-222-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-075U-050D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4903.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.16
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

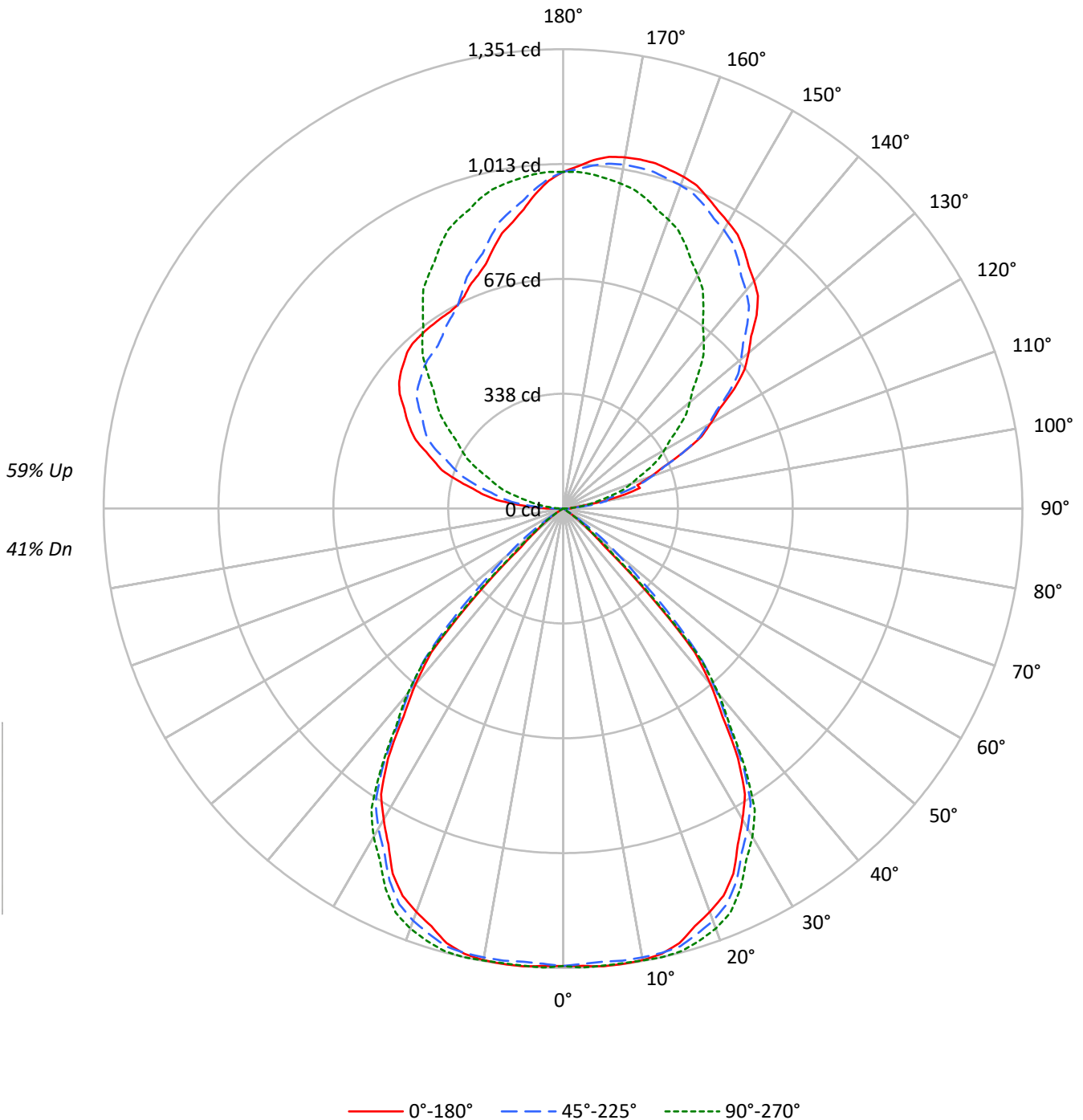
Input Watts (W): 41.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48	41				
1	97	94	90	88	89	86	83	81	71	69	67	57	56	55	45	44	44	38				
2	90	84	79	74	82	77	73	69	64	61	59	52	50	49	42	40	39	34				
3	83	75	69	64	76	69	64	60	58	54	51	48	45	43	38	37	36	31				
4	77	68	61	56	71	63	57	52	53	49	45	44	41	39	36	34	32	28				
5	71	61	54	49	65	57	51	46	48	44	40	40	37	35	33	31	29	26				
6	66	56	48	43	61	52	45	41	44	40	36	37	34	31	31	28	27	24				
7	62	51	44	39	57	47	41	37	41	36	32	34	31	28	28	26	24	22				
8	58	46	39	35	53	43	37	33	37	33	29	32	28	26	26	24	22	20				
9	54	43	36	31	49	40	34	30	34	30	27	29	26	24	25	22	20	18				
10	50	39	33	28	46	37	31	27	32	27	24	27	24	22	23	21	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21721	21721	21721	21721	21721
5°	21901	21681	21869	21681	21901
10°	22105	21973	22122	21973	22105
15°	22118	22277	22521	22277	22118
20°	21687	22157	22581	22157	21687
25°	21114	21508	21987	21508	21114
30°	19673	20245	20773	20245	19673
35°	17684	18198	18413	18198	17684
40°	14229	14810	15030	14810	14229
45°	8245	10392	8862	10392	8245
50°	2663	5359	2989	5359	2663
55°	1070	1886	1013	1886	1070
60°	32	531	97	531	32
65°	0	31	0	31	0
70°	0	0	0	0	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 10435 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	2.6
10°-20°	376.3	7.7
20°-30°	553.7	11.3
30°-40°	565.7	11.5
40°-50°	325.2	6.6
50°-60°	56.8	1.2
60°-70°	2.0	0.0
70°-80°	0.0	0.0
80°-90°	5.3	0.1
90°-100°	78.8	1.6
100°-110°	229.8	4.7
110°-120°	375.0	7.6
120°-130°	475.8	9.7
130°-140°	509.1	10.4
140°-150°	475.4	9.7
150°-160°	391.2	8.0
160°-170°	262.4	5.4
170°-180°	93.2	1.9
0°-30°	1058.5	21.6
0°-40°	1624.2	33.1
0°-60°	2006.2	40.9
0°-90°	2013.5	41.1
90°-120°	683.5	13.9
90°-150°	2143.9	43.7
90°-180°	2891.0	59.0
0°-180°	4903.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1345	1345	1345	1345	1345	
5°	1351	1338	1349	1338	1351	129
15°	1323	1333	1347	1333	1323	371
25°	1185	1207	1234	1207	1185	540
35°	897	923	934	923	897	549
45°	361	455	388	455	361	282
55°	38	67	36	67	38	39
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	2
90°	22	20	3	26	43	10
95°	23	30	31	100	135	39
105°	234	176	146	262	322	219
115°	388	388	280	416	478	384
125°	615	595	414	518	586	545
135°	805	766	563	582	649	617
145°	928	896	719	619	663	580
155°	1008	984	854	702	688	465
165°	1051	1026	944	826	792	297
175°	1029	1013	987	944	929	99
180°	990	990	990	990	990	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3
2.5°	1346.1	1347.5	1348.9	1345.3	1339.9	1339.6	1344.2	1348.0	1349.4	1350.9	1349.4
5°	1351.3	1352.1	1353.0	1346.9	1338.5	1336.9	1342.2	1346.6	1347.9	1349.3	1347.9
7.5°	1350.7	1352.4	1354.2	1349.1	1341.7	1339.8	1343.4	1346.3	1347.4	1348.5	1347.4
10°	1348.3	1350.0	1351.8	1347.3	1340.6	1339.9	1345.3	1349.3	1349.3	1349.3	1349.3
12.5°	1341.0	1343.5	1346.0	1342.7	1337.5	1339.3	1348.2	1354.4	1352.6	1350.9	1352.6
15°	1323.2	1326.4	1329.5	1329.9	1329.5	1335.9	1349.3	1357.9	1352.6	1347.3	1352.6
17.5°	1287.8	1292.6	1297.3	1301.6	1305.8	1317.0	1335.2	1347.1	1339.8	1332.6	1339.8
20°	1262.2	1266.2	1270.2	1276.2	1282.9	1296.2	1316.2	1329.4	1321.8	1314.2	1321.8
22.5°	1232.6	1237.0	1241.3	1246.6	1252.2	1265.6	1286.6	1300.6	1293.4	1286.2	1293.4
25°	1185.2	1187.9	1190.6	1195.6	1201.3	1213.3	1231.6	1244.0	1239.1	1234.2	1239.1
27.5°	1112.8	1117.3	1121.7	1127.3	1133.2	1144.1	1159.9	1171.2	1168.7	1166.2	1168.7
30°	1055.2	1061.4	1067.6	1074.2	1080.9	1090.9	1104.2	1114.2	1114.2	1114.2	1114.2
32.5°	996.0	1001.9	1007.7	1015.0	1022.7	1030.9	1039.7	1046.6	1048.0	1049.4	1048.0
35°	897.2	902.1	906.9	913.2	919.8	926.7	933.8	938.6	936.4	934.2	936.4
37.5°	770.3	773.7	777.1	783.7	791.3	798.8	806.1	811.0	808.9	806.8	808.9
40°	675.1	679.6	684.0	691.1	699.1	706.2	712.5	716.7	714.9	713.1	714.9
42.5°	573.5	579.4	585.2	593.2	602.0	609.2	615.1	617.1	607.5	597.9	607.5
45°	361.1	394.4	427.7	443.4	453.2	457.0	454.8	445.9	417.0	388.1	417.0
47.5°	170.0	203.0	236.0	268.7	301.3	307.1	286.1	262.7	232.5	202.2	232.5
50°	106.0	118.0	130.0	166.0	210.0	216.7	186.0	158.1	138.6	119.0	138.6
52.5°	71.6	77.6	83.5	111.1	145.8	148.2	118.3	93.7	85.1	76.6	85.1
55°	38.0	39.8	41.6	52.7	66.9	67.1	53.3	42.2	39.1	36.0	39.1
57.5°	14.6	17.2	19.8	24.7	30.5	30.5	24.6	19.4	16.4	13.4	16.4
60°	1.0	3.2	5.4	10.3	16.1	16.8	12.3	8.3	5.7	3.0	5.7
62.5°	0.2	0.6	1.1	4.5	8.8	9.1	5.4	2.4	1.5	0.6	1.5
65°	0.0	0.0	0.0	0.3	0.8	0.8	0.3	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	4.4	4.2	4.0	4.0	3.8	3.2	2.4	1.4	0.6	1.4
90°	22.0	22.0	21.0	20.0	20.0	19.0	16.0	12.0	7.0	3.0	7.0
92.5°	26.0	26.0	25.0	24.8	23.2	21.4	17.6	17.6	17.4	11.0	19.0
95°	23.0	23.0	23.0	23.0	27.0	34.0	50.0	51.0	34.0	31.0	44.0
97.5°	52.6	55.6	62.2	74.0	90.8	94.0	89.0	66.4	63.6	59.2	80.6
100°	107.0	110.0	115.0	130.0	142.0	118.0	93.0	92.0	86.0	84.0	107.0
102.5°	175.8	176.4	179.8	184.4	142.8	129.2	123.4	119.2	110.0	108.8	131.8
105°	234.0	227.0	195.0	175.0	176.0	176.0	172.0	164.0	147.0	146.0	172.0
107.5°	229.0	228.2	229.4	232.4	237.6	236.4	231.8	210.4	190.4	185.8	209.2
110°	273.0	273.0	275.0	278.0	280.0	278.0	271.0	244.0	220.0	213.0	234.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	318.6	317.0	319.0	321.2	325.6	319.6	307.8	276.8	249.6	239.4	260.4
115°	388.0	388.0	389.0	389.0	390.0	387.0	363.0	331.0	295.0	280.0	298.0
117.5°	458.6	456.6	457.8	459.0	455.0	447.0	419.2	382.0	341.6	317.6	331.8
120°	501.0	503.0	501.0	503.0	499.0	487.0	460.0	418.0	372.0	344.0	355.0
122.5°	545.0	546.2	545.8	545.4	540.6	527.0	495.2	451.6	406.4	372.0	376.6
125°	615.0	610.0	608.0	607.0	603.0	587.0	554.0	509.0	456.0	414.0	408.0
127.5°	673.6	671.4	667.2	665.0	658.8	639.4	605.6	562.2	504.0	456.4	443.0
130°	712.0	713.0	708.0	705.0	694.0	673.0	640.0	599.0	540.0	486.0	467.0
132.5°	750.4	749.0	747.2	738.6	729.2	706.6	676.0	633.4	573.6	517.2	491.0
135°	805.0	802.0	797.0	789.0	777.0	755.0	726.0	684.0	624.0	563.0	527.0
137.5°	848.4	846.0	840.8	832.4	818.8	799.8	770.6	733.2	675.6	611.2	565.8
140°	874.0	874.0	868.0	858.0	846.0	827.0	801.0	762.0	706.0	644.0	593.0
142.5°	897.2	897.2	890.4	882.8	870.0	852.6	829.8	790.8	736.4	675.2	621.0
145°	928.0	928.0	924.0	918.0	904.0	888.0	869.0	830.0	780.0	719.0	665.0
147.5°	955.2	957.4	952.4	947.6	936.6	917.8	901.8	864.4	818.8	764.8	709.4
150°	972.0	975.0	970.0	966.0	955.0	937.0	921.0	886.0	842.0	792.0	739.0
152.5°	988.0	990.2	986.8	982.8	970.2	952.2	938.6	906.0	866.0	818.4	764.6
155°	1008.0	1013.0	1009.0	1004.0	992.0	975.0	963.0	933.0	896.0	854.0	808.0
157.5°	1028.4	1030.6	1026.6	1020.4	1009.2	994.6	981.8	954.2	922.0	885.8	845.6
160°	1038.0	1041.0	1037.0	1030.0	1018.0	1005.0	993.0	967.0	938.0	905.0	868.0
162.5°	1044.4	1048.2	1044.2	1038.0	1023.6	1012.2	1001.8	978.2	950.8	921.0	888.0
165°	1051.0	1055.0	1052.0	1045.0	1030.0	1021.0	1012.0	992.0	968.0	944.0	916.0
167.5°	1051.4	1056.4	1052.6	1046.8	1031.8	1023.0	1016.4	999.2	979.8	961.4	939.6
170°	1049.0	1054.0	1051.0	1046.0	1031.0	1023.0	1018.0	1004.0	987.0	971.0	954.0
172.5°	1043.4	1047.6	1045.4	1040.4	1026.2	1019.8	1017.2	1004.8	991.0	979.0	964.4
175°	1029.0	1035.0	1031.0	1027.0	1015.0	1011.0	1012.0	1004.0	994.0	987.0	978.0
177.5°	1007.6	1010.8	1010.0	1007.6	998.8	998.8	1002.0	997.2	994.0	990.8	986.8
180°	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3
2.5°	1348.0	1344.2	1339.6	1339.9	1345.3	1348.9	1347.5	1346.1
5°	1346.6	1342.2	1336.9	1338.5	1346.9	1353.0	1352.1	1351.3
7.5°	1346.3	1343.4	1339.8	1341.7	1349.1	1354.2	1352.4	1350.7
10°	1349.3	1345.3	1339.9	1340.6	1347.3	1351.8	1350.0	1348.3
12.5°	1354.4	1348.2	1339.3	1337.5	1342.7	1346.0	1343.5	1341.0
15°	1357.9	1349.3	1335.9	1329.5	1329.9	1329.5	1326.4	1323.2
17.5°	1347.1	1335.2	1317.0	1305.8	1301.6	1297.3	1292.6	1287.8
20°	1329.4	1316.2	1296.2	1282.9	1276.2	1270.2	1266.2	1262.2
22.5°	1300.6	1286.6	1265.6	1252.2	1246.6	1241.3	1237.0	1232.6
25°	1244.0	1231.6	1213.3	1201.3	1195.6	1190.6	1187.9	1185.2
27.5°	1171.2	1159.9	1144.1	1133.2	1127.3	1121.7	1117.3	1112.8
30°	1114.2	1104.2	1090.9	1080.9	1074.2	1067.6	1061.4	1055.2
32.5°	1046.6	1039.7	1030.9	1022.7	1015.0	1007.7	1001.9	996.0
35°	938.6	933.8	926.7	919.8	913.2	906.9	902.1	897.2
37.5°	811.0	806.1	798.8	791.3	783.7	777.1	773.7	770.3
40°	716.7	712.5	706.2	699.1	691.1	684.0	679.6	675.1
42.5°	617.1	615.1	609.2	602.0	593.2	585.2	579.4	573.5
45°	445.9	454.8	457.0	453.2	443.4	427.7	394.4	361.1
47.5°	262.7	286.1	307.1	301.3	268.7	236.0	203.0	170.0
50°	158.1	186.0	216.7	210.0	166.0	130.0	118.0	106.0
52.5°	93.7	118.3	148.2	145.8	111.1	83.5	77.6	71.6
55°	42.2	53.3	67.1	66.9	52.7	41.6	39.8	38.0
57.5°	19.4	24.6	30.5	30.5	24.7	19.8	17.2	14.6
60°	8.3	12.3	16.8	16.1	10.3	5.4	3.2	1.0
62.5°	2.4	5.4	9.1	8.8	4.5	1.1	0.6	0.2
65°	0.0	0.3	0.8	0.8	0.3	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	3.6	4.6	6.0	7.4	8.2	9.0	8.6
90°	11.0	18.0	23.0	30.0	37.0	41.0	45.0	43.0
92.5°	27.0	38.8	46.2	58.0	66.6	73.8	77.0	76.6
95°	62.0	78.0	93.0	107.0	121.0	131.0	137.0	135.0
97.5°	98.4	124.2	143.4	162.2	177.8	187.2	193.2	197.2
100°	124.0	149.0	177.0	195.0	213.0	224.0	234.0	238.0
102.5°	155.2	176.2	204.2	227.8	247.4	259.2	267.6	271.6
105°	199.0	225.0	249.0	274.0	295.0	310.0	319.0	322.0
107.5°	241.6	270.2	293.8	319.6	339.0	355.6	366.6	373.0
110°	268.0	299.0	329.0	350.0	371.0	386.0	397.0	401.0

TEST NUMBER: P709266

CATALOG NUMBER: DL2W-BB-M-075U-050D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	295.2	327.0	358.6	382.0	403.0	418.0	430.6	436.2
115°	330.0	365.0	400.0	431.0	450.0	464.0	473.0	478.0
117.5°	365.6	401.6	434.4	466.8	487.6	498.4	502.6	506.2
120°	388.0	424.0	456.0	486.0	510.0	524.0	529.0	531.0
122.5°	407.2	442.4	476.0	504.4	527.6	544.8	553.0	555.0
125°	434.0	470.0	504.0	531.0	555.0	572.0	581.0	586.0
127.5°	459.4	492.4	528.4	557.6	579.6	595.0	603.8	607.8
130°	477.0	506.0	542.0	572.0	594.0	611.0	619.0	623.0
132.5°	495.4	518.0	552.4	584.0	606.8	622.2	631.0	635.0
135°	523.0	536.0	565.0	598.0	622.0	637.0	645.0	649.0
137.5°	552.4	557.4	576.0	606.0	631.0	646.8	654.0	656.6
140°	574.0	571.0	584.0	610.0	635.0	650.0	658.0	659.0
142.5°	596.4	589.4	594.4	614.8	636.6	651.6	659.6	661.4
145°	633.0	618.0	613.0	625.0	640.0	654.0	661.0	663.0
147.5°	669.8	650.4	636.4	640.2	648.0	657.2	664.0	665.4
150°	697.0	672.0	654.0	653.0	656.0	662.0	668.0	667.0
152.5°	722.6	696.8	674.0	668.2	668.0	670.8	673.6	673.4
155°	764.0	735.0	708.0	697.0	691.0	689.0	689.0	688.0
157.5°	803.6	774.0	745.4	730.0	721.0	716.2	714.8	712.6
160°	830.0	798.0	771.0	754.0	745.0	737.0	734.0	731.0
162.5°	854.8	825.2	795.0	778.8	769.0	761.8	758.8	754.2
165°	889.0	865.0	834.0	817.0	806.0	800.0	796.0	792.0
167.5°	918.4	898.4	873.0	854.4	847.2	840.4	836.6	829.4
170°	936.0	920.0	897.0	880.0	876.0	870.0	863.0	855.0
172.5°	951.2	938.4	917.8	906.4	902.4	896.4	894.2	887.8
175°	970.0	963.0	948.0	939.0	939.0	938.0	935.0	929.0
177.5°	984.4	982.0	973.2	968.4	971.6	971.6	970.8	965.2
180°	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0

(END OF REPORT)