

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: P709276

Luminaire Tested: DL2W-BB-M-075U-125D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709276
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-3, G3-2104-222-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-075U-125D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8328.2 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

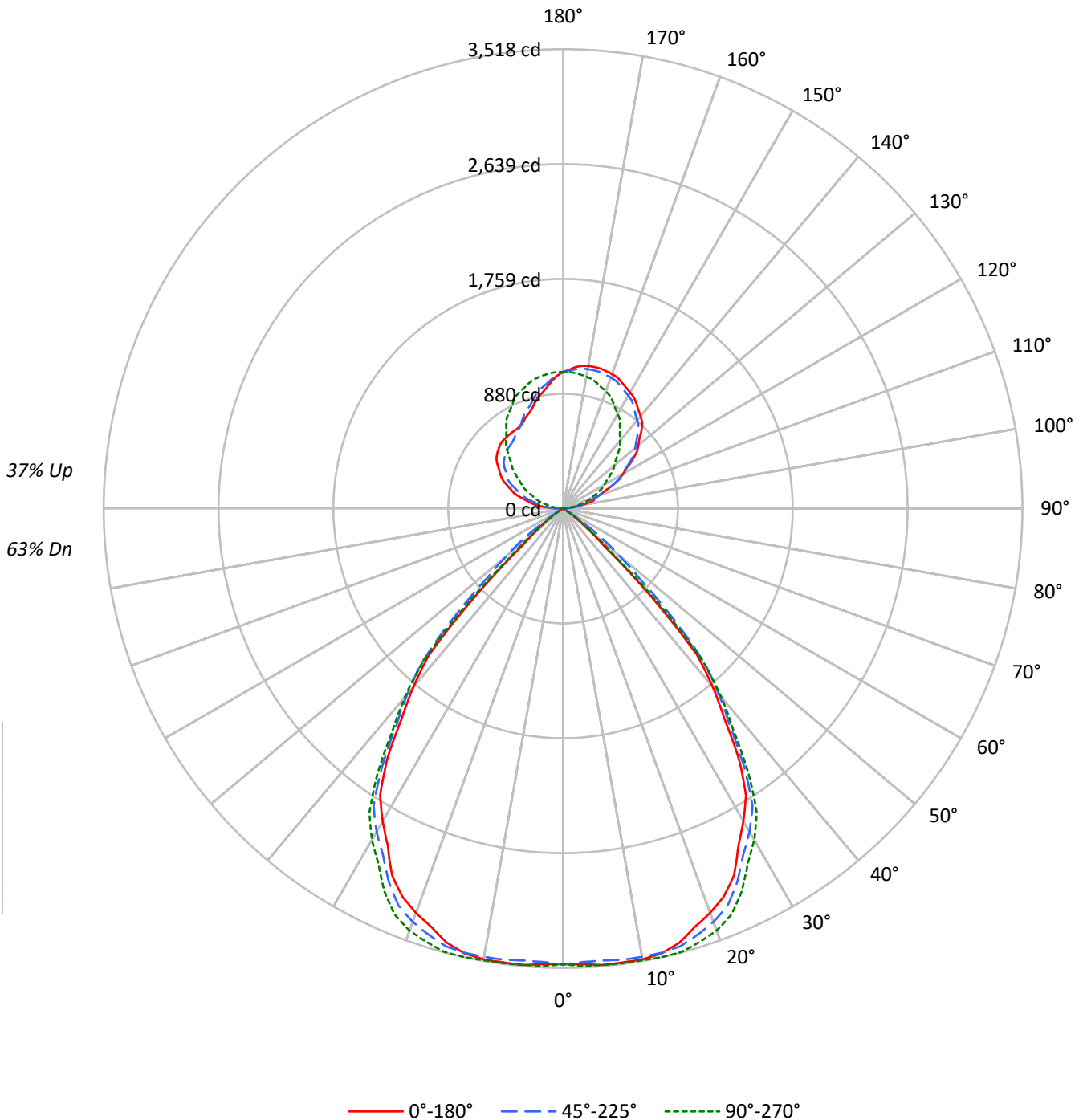
Input Watts (W): 73.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709276

CATALOG NUMBER: DL2W-BB-M-075U-125D-940-UNV-STD-W-WM-4

Luminous Intensity Polar Plot



TEST NUMBER: P709276

CATALOG NUMBER: DL2W-BB-M-075U-125D-940-UNV-STD-W-WM-4

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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	68	68	68	63
1	103	100	97	94	97	94	91	89	83	81	80	73	72	71	64	63	63	58
2	96	90	85	81	90	85	81	77	76	73	70	68	65	63	60	58	57	53
3	90	82	76	71	84	78	72	68	70	66	62	62	59	57	56	53	52	48
4	83	74	68	63	79	71	65	60	64	59	56	57	54	51	52	49	47	44
5	78	68	61	56	73	65	58	54	59	54	50	53	49	46	48	45	43	40
6	73	62	55	50	68	59	53	48	54	49	45	49	45	42	44	41	39	37
7	68	57	50	45	64	55	48	44	50	45	41	45	41	38	41	38	36	34
8	63	52	46	41	60	50	44	40	46	41	37	42	38	35	39	35	33	31
9	60	49	42	37	56	47	40	36	43	38	34	39	35	32	36	33	30	28
10	56	45	38	34	53	43	37	33	40	35	31	37	33	30	34	30	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	56354	56354	56354	56354	56354
5°	56859	56308	56859	56308	56859
10°	57464	57159	57586	57159	57464
15°	57531	58009	58746	58009	57531
20°	56599	57868	59082	57868	56599
25°	55210	56220	57653	56220	55210
30°	51486	53255	54592	53255	51486
35°	46349	47727	48821	47727	46349
40°	37582	39131	39759	39131	37582
45°	21863	27357	24270	27357	21863
50°	6965	14120	7920	14120	6965
55°	2790	4918	2702	4918	2790
60°	68	1350	203	1350	68
65°	0	73	42	73	0
70°	0	45	0	45	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: 60°
 Vertical Angle: 45°
 Luminance: 27576 cd/sqm

TEST NUMBER: P709276

CATALOG NUMBER: DL2W-BB-M-075U-125D-940-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.0	4.0
10°-20°	980.8	11.8
20°-30°	1449.6	17.4
30°-40°	1489.7	17.9
40°-50°	860.4	10.3
50°-60°	148.8	1.8
60°-70°	5.6	0.1
70°-80°	0.1	0.0
80°-90°	5.5	0.1
90°-100°	83.3	1.0
100°-110°	242.8	2.9
110°-120°	396.3	4.8
120°-130°	502.8	6.0
130°-140°	538.1	6.5
140°-150°	502.4	6.0
150°-160°	413.4	5.0
160°-170°	277.3	3.3
170°-180°	98.4	1.2
0°-30°	2764.4	33.2
0°-40°	4254.1	51.1
0°-60°	5263.4	63.2
0°-90°	5274.6	63.3
90°-120°	722.4	8.7
90°-150°	2265.7	27.2
90°-180°	3055.0	36.7
0°-180°	8328.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3490	3490	3490	3490	3490	
5°	3508	3474	3508	3474	3508	334
15°	3442	3470	3514	3470	3442	967
25°	3099	3156	3236	3156	3099	1410
35°	2352	2421	2477	2421	2352	1442
45°	958	1198	1063	1198	958	745
55°	99	175	96	175	99	101
65°	0	2	1	2	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	2
90°	23	21	3	28	45	11
95°	24	32	33	106	143	41
105°	247	186	154	276	340	231
115°	410	411	296	439	505	405
125°	650	629	438	547	619	576
135°	851	810	595	615	686	652
145°	981	947	760	654	701	613
155°	1065	1039	902	742	727	492
165°	1111	1084	998	872	837	314
175°	1088	1071	1043	997	982	104
180°	1046	1046	1046	1046	1046	

TEST NUMBER: P709276

CATALOG NUMBER: DL2W-BB-M-075U-125D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3490.3	3490.3	3490.3	3490.3	3490.3	3490.3	3490.3	3490.3	3490.3	3490.3	3490.3
2.5°	3492.8	3496.2	3499.6	3489.7	3475.5	3474.5	3486.9	3497.3	3501.8	3506.3	3501.8
5°	3508.2	3511.5	3514.8	3498.7	3476.2	3472.2	3486.8	3498.8	3503.5	3508.2	3503.5
7.5°	3505.0	3510.3	3515.5	3503.6	3485.9	3483.2	3495.7	3505.8	3508.7	3511.6	3508.7
10°	3505.0	3508.8	3512.5	3501.9	3486.4	3486.4	3501.9	3513.4	3512.9	3512.4	3512.9
12.5°	3489.0	3495.4	3501.8	3494.0	3481.5	3487.0	3510.3	3526.7	3522.1	3517.5	3522.1
15°	3441.8	3453.0	3464.3	3465.0	3462.2	3478.6	3514.2	3538.0	3526.2	3514.5	3526.2
17.5°	3358.3	3372.3	3386.4	3398.0	3408.8	3437.0	3482.8	3512.8	3496.0	3479.1	3496.0
20°	3294.1	3308.2	3322.3	3336.7	3351.2	3384.7	3437.2	3472.4	3455.5	3438.6	3455.5
22.5°	3216.5	3229.5	3242.4	3257.7	3273.7	3309.8	3366.1	3403.6	3385.3	3366.9	3385.3
25°	3099.1	3104.2	3109.4	3122.6	3138.6	3173.0	3226.0	3262.4	3249.3	3236.2	3249.3
27.5°	2908.4	2920.5	2932.6	2951.3	2972.2	3003.1	3044.0	3073.4	3068.8	3064.1	3068.8
30°	2761.6	2779.0	2796.3	2818.6	2842.5	2870.4	2902.2	2926.4	2927.3	2928.2	2927.3
32.5°	2608.1	2625.8	2643.5	2664.8	2687.2	2714.5	2746.7	2769.8	2765.1	2760.4	2765.1
35°	2351.5	2365.0	2378.6	2394.3	2410.7	2432.1	2458.3	2477.9	2477.4	2476.9	2477.4
37.5°	2032.8	2040.5	2048.2	2066.8	2089.1	2109.3	2127.4	2141.6	2143.9	2146.3	2143.9
40°	1783.1	1791.5	1800.0	1821.1	1846.4	1866.8	1882.2	1893.0	1889.7	1886.4	1889.7
42.5°	1518.2	1528.5	1538.8	1563.8	1593.6	1614.2	1625.5	1628.6	1606.9	1585.3	1606.9
45°	957.5	1040.4	1123.4	1164.1	1190.8	1205.4	1207.7	1193.2	1128.0	1062.9	1128.0
47.5°	436.8	534.1	631.5	714.3	792.2	808.1	762.0	707.0	625.4	543.9	625.4
50°	277.3	305.0	332.6	430.6	552.0	572.3	491.7	418.4	366.8	315.3	366.8
52.5°	184.5	200.6	216.6	292.2	387.7	395.4	315.1	248.8	224.3	199.7	224.3
55°	99.1	103.8	108.5	137.4	174.5	174.9	138.8	110.0	103.0	96.0	103.0
57.5°	37.5	44.7	51.8	64.3	78.5	78.3	63.5	50.6	42.8	35.0	42.8
60°	2.1	7.7	13.4	26.0	41.0	42.6	30.9	20.4	13.4	6.3	13.4
62.5°	1.3	2.4	3.5	12.0	22.8	23.3	13.5	5.7	3.9	2.1	3.9
65°	0.0	0.5	0.9	1.4	1.9	1.9	1.4	1.1	1.1	1.1	1.1
67.5°	0.0	0.0	0.0	0.4	0.8	1.1	1.1	0.9	0.5	0.0	0.5
70°	0.0	0.0	0.0	0.4	0.8	1.1	1.1	0.9	0.5	0.0	0.5
72.5°	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.1
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°	4.6	4.6	4.4	4.2	4.2	4.0	3.4	2.5	1.5	0.6	1.5
90°	23.2	23.2	22.2	21.1	21.1	20.1	16.9	12.7	7.4	3.2	7.4
92.5°	27.5	27.5	26.4	26.2	24.5	22.6	18.6	18.6	18.4	11.6	20.1
95°	24.3	24.3	24.3	24.3	28.5	35.9	52.8	53.9	35.9	32.8	46.5
97.5°	55.6	58.8	65.7	78.2	96.0	99.3	94.1	70.2	67.2	62.6	85.2
100°	113.1	116.2	121.5	137.4	150.1	124.7	98.3	97.2	90.9	88.8	113.1
102.5°	185.8	186.4	190.0	194.9	150.9	136.5	130.4	126.0	116.2	115.0	139.3
105°	247.3	239.9	206.1	184.9	186.0	186.0	181.8	173.3	155.4	154.3	181.8
107.5°	242.0	241.2	242.4	245.6	251.1	249.8	245.0	222.4	201.2	196.4	221.1
110°	288.5	288.5	290.6	293.8	295.9	293.8	286.4	257.9	232.5	225.1	247.3

TEST NUMBER: P709276

CATALOG NUMBER: DL2W-BB-M-075U-125D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	336.7	335.0	337.1	339.4	344.1	337.8	325.3	292.5	263.8	253.0	275.2
115°	410.0	410.0	411.1	411.1	412.2	409.0	383.6	349.8	311.8	295.9	314.9
117.5°	484.7	482.5	483.8	485.1	480.9	472.4	443.0	403.7	361.0	335.6	350.7
120°	529.5	531.6	529.5	531.6	527.4	514.7	486.1	441.7	393.1	363.5	375.2
122.5°	576.0	577.2	576.8	576.4	571.3	556.9	523.3	477.3	429.5	393.1	398.0
125°	649.9	644.7	642.5	641.5	637.3	620.4	585.5	537.9	481.9	437.5	431.2
127.5°	711.9	709.5	705.1	702.8	696.2	675.7	640.0	594.1	532.6	482.3	468.2
130°	752.5	753.5	748.2	745.1	733.4	711.2	676.4	633.0	570.7	513.6	493.5
132.5°	793.0	791.6	789.7	780.6	770.6	746.7	714.4	669.4	606.2	546.6	518.9
135°	850.7	847.6	842.3	833.8	821.1	797.9	767.2	722.9	659.5	595.0	556.9
137.5°	896.6	894.1	888.6	879.7	865.3	845.2	814.4	774.9	714.0	645.9	597.9
140°	923.7	923.7	917.3	906.7	894.1	874.0	846.5	805.3	746.1	680.6	626.7
142.5°	948.2	948.2	941.0	933.0	919.4	901.0	876.9	835.7	778.2	713.6	656.3
145°	980.7	980.7	976.5	970.2	955.4	938.5	918.4	877.2	824.3	759.9	702.8
147.5°	1009.5	1011.8	1006.5	1001.4	989.8	969.9	953.0	913.5	865.3	808.3	749.7
150°	1027.2	1030.4	1025.1	1020.9	1009.3	990.2	973.3	936.3	889.8	837.0	781.0
152.5°	1044.1	1046.5	1042.9	1038.6	1025.3	1006.3	991.9	957.5	915.2	864.9	808.0
155°	1065.3	1070.6	1066.3	1061.0	1048.4	1030.4	1017.7	986.0	946.9	902.5	853.9
157.5°	1086.8	1089.2	1084.9	1078.4	1066.5	1051.1	1037.6	1008.4	974.4	936.1	893.6
160°	1097.0	1100.1	1095.9	1088.5	1075.8	1062.1	1049.4	1021.9	991.3	956.4	917.3
162.5°	1103.7	1107.8	1103.5	1097.0	1081.8	1069.7	1058.7	1033.8	1004.8	973.3	938.5
165°	1110.7	1114.9	1111.8	1104.4	1088.5	1079.0	1069.5	1048.4	1023.0	997.6	968.0
167.5°	1111.1	1116.4	1112.4	1106.3	1090.4	1081.1	1074.1	1056.0	1035.5	1016.0	993.0
170°	1108.6	1113.9	1110.7	1105.4	1089.6	1081.1	1075.8	1061.0	1043.1	1026.2	1008.2
172.5°	1102.7	1107.1	1104.8	1099.5	1084.5	1077.7	1075.0	1061.9	1047.3	1034.6	1019.2
175°	1087.5	1093.8	1089.6	1085.4	1072.7	1068.4	1069.5	1061.0	1050.5	1043.1	1033.6
177.5°	1064.8	1068.2	1067.4	1064.8	1055.5	1055.5	1058.9	1053.9	1050.5	1047.1	1042.9
180°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2

TEST NUMBER: P709276

CATALOG NUMBER: DL2W-BB-M-075U-125D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3490.3	3490.3	3490.3	3490.3	3490.3	3490.3	3490.3	3490.3
2.5°	3497.3	3486.9	3474.5	3475.5	3489.7	3499.6	3496.2	3492.8
5°	3498.8	3486.8	3472.2	3476.2	3498.7	3514.8	3511.5	3508.2
7.5°	3505.8	3495.7	3483.2	3485.9	3503.6	3515.5	3510.3	3505.0
10°	3513.4	3501.9	3486.4	3486.4	3501.9	3512.5	3508.8	3505.0
12.5°	3526.7	3510.3	3487.0	3481.5	3494.0	3501.8	3495.4	3489.0
15°	3538.0	3514.2	3478.6	3462.2	3465.0	3464.3	3453.0	3441.8
17.5°	3512.8	3482.8	3437.0	3408.8	3398.0	3386.4	3372.3	3358.3
20°	3472.4	3437.2	3384.7	3351.2	3336.7	3322.3	3308.2	3294.1
22.5°	3403.6	3366.1	3309.8	3273.7	3257.7	3242.4	3229.5	3216.5
25°	3262.4	3226.0	3173.0	3138.6	3122.6	3109.4	3104.2	3099.1
27.5°	3073.4	3044.0	3003.1	2972.2	2951.3	2932.6	2920.5	2908.4
30°	2926.4	2902.2	2870.4	2842.5	2818.6	2796.3	2779.0	2761.6
32.5°	2769.8	2746.7	2714.5	2687.2	2664.8	2643.5	2625.8	2608.1
35°	2477.9	2458.3	2432.1	2410.7	2394.3	2378.6	2365.0	2351.5
37.5°	2141.6	2127.4	2109.3	2089.1	2066.8	2048.2	2040.5	2032.8
40°	1893.0	1882.2	1866.8	1846.4	1821.1	1800.0	1791.5	1783.1
42.5°	1628.6	1625.5	1614.2	1593.6	1563.8	1538.8	1528.5	1518.2
45°	1193.2	1207.7	1205.4	1190.8	1164.1	1123.4	1040.4	957.5
47.5°	707.0	762.0	808.1	792.2	714.3	631.5	534.1	436.8
50°	418.4	491.7	572.3	552.0	430.6	332.6	305.0	277.3
52.5°	248.8	315.1	395.4	387.7	292.2	216.6	200.6	184.5
55°	110.0	138.8	174.9	174.5	137.4	108.5	103.8	99.1
57.5°	50.6	63.5	78.3	78.5	64.3	51.8	44.7	37.5
60°	20.4	30.9	42.6	41.0	26.0	13.4	7.7	2.1
62.5°	5.7	13.5	23.3	22.8	12.0	3.5	2.4	1.3
65°	1.1	1.4	1.9	1.9	1.4	0.9	0.5	0.0
67.5°	0.9	1.1	1.1	0.8	0.4	0.0	0.0	0.0
70°	0.9	1.1	1.1	0.8	0.4	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.2	0.1	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°	2.3	3.8	4.9	6.3	7.8	8.7	9.5	9.1
90°	11.6	19.0	24.3	31.7	39.1	43.3	47.6	45.4
92.5°	28.5	41.0	48.8	61.3	70.4	78.0	81.4	81.0
95°	65.5	82.4	98.3	113.1	127.9	138.4	144.8	142.7
97.5°	104.0	131.3	151.5	171.4	187.9	197.8	204.2	208.4
100°	131.0	157.5	187.1	206.1	225.1	236.7	247.3	251.5
102.5°	164.0	186.2	215.8	240.7	261.5	273.9	282.8	287.0
105°	210.3	237.8	263.1	289.6	311.8	327.6	337.1	340.3
107.5°	255.3	285.6	310.5	337.8	358.3	375.8	387.4	394.2
110°	283.2	316.0	347.7	369.9	392.1	407.9	419.6	423.8

TEST NUMBER: P709276

CATALOG NUMBER: DL2W-BB-M-075U-125D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	312.0	345.6	379.0	403.7	425.9	441.7	455.1	461.0
115°	348.7	385.7	422.7	455.5	475.6	490.4	499.9	505.2
117.5°	386.4	424.4	459.1	493.3	515.3	526.7	531.2	535.0
120°	410.0	448.1	481.9	513.6	539.0	553.8	559.1	561.2
122.5°	430.3	467.5	503.0	533.1	557.6	575.8	584.4	586.5
125°	458.7	496.7	532.6	561.2	586.5	604.5	614.0	619.3
127.5°	485.5	520.4	558.4	589.3	612.5	628.8	638.1	642.3
130°	504.1	534.7	572.8	604.5	627.7	645.7	654.2	658.4
132.5°	523.5	547.4	583.8	617.2	641.3	657.6	666.9	671.1
135°	552.7	566.5	597.1	632.0	657.3	673.2	681.6	685.9
137.5°	583.8	589.1	608.7	640.4	666.9	683.5	691.2	693.9
140°	606.6	603.4	617.2	644.7	671.1	686.9	695.4	696.4
142.5°	630.3	622.9	628.2	649.7	672.8	688.6	697.1	699.0
145°	669.0	653.1	647.8	660.5	676.4	691.2	698.6	700.7
147.5°	707.9	687.4	672.6	676.6	684.8	694.5	701.7	703.2
150°	736.6	710.2	691.2	690.1	693.3	699.6	706.0	704.9
152.5°	763.7	736.4	712.3	706.2	706.0	708.9	711.9	711.7
155°	807.4	776.8	748.2	736.6	730.3	728.1	728.1	727.1
157.5°	849.3	818.0	787.8	771.5	762.0	756.9	755.4	753.1
160°	877.2	843.3	814.8	796.8	787.3	778.9	775.7	772.5
162.5°	903.4	872.1	840.2	823.0	812.7	805.1	801.9	797.1
165°	939.5	914.1	881.4	863.4	851.8	845.5	841.2	837.0
167.5°	970.6	949.4	922.6	902.9	895.3	888.1	884.1	876.5
170°	989.2	972.3	948.0	930.0	925.8	919.4	912.0	903.6
172.5°	1005.2	991.7	969.9	957.9	953.7	947.3	945.0	938.2
175°	1025.1	1017.7	1001.9	992.4	992.4	991.3	988.1	981.8
177.5°	1040.3	1037.8	1028.5	1023.4	1026.8	1026.8	1026.0	1020.0
180°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2

(END OF REPORT)