

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P184288

Luminaire Tested: **LDWP-GL-4B-ED**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184288  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDWP-GL-4B-ED  
Description: LUMARK LED WALPAK GLASS  
Light Source: (4) 5000K COB LEDS  
Ballast/Driver: [1] ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4198.7 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 1' x H: 0.46')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G3

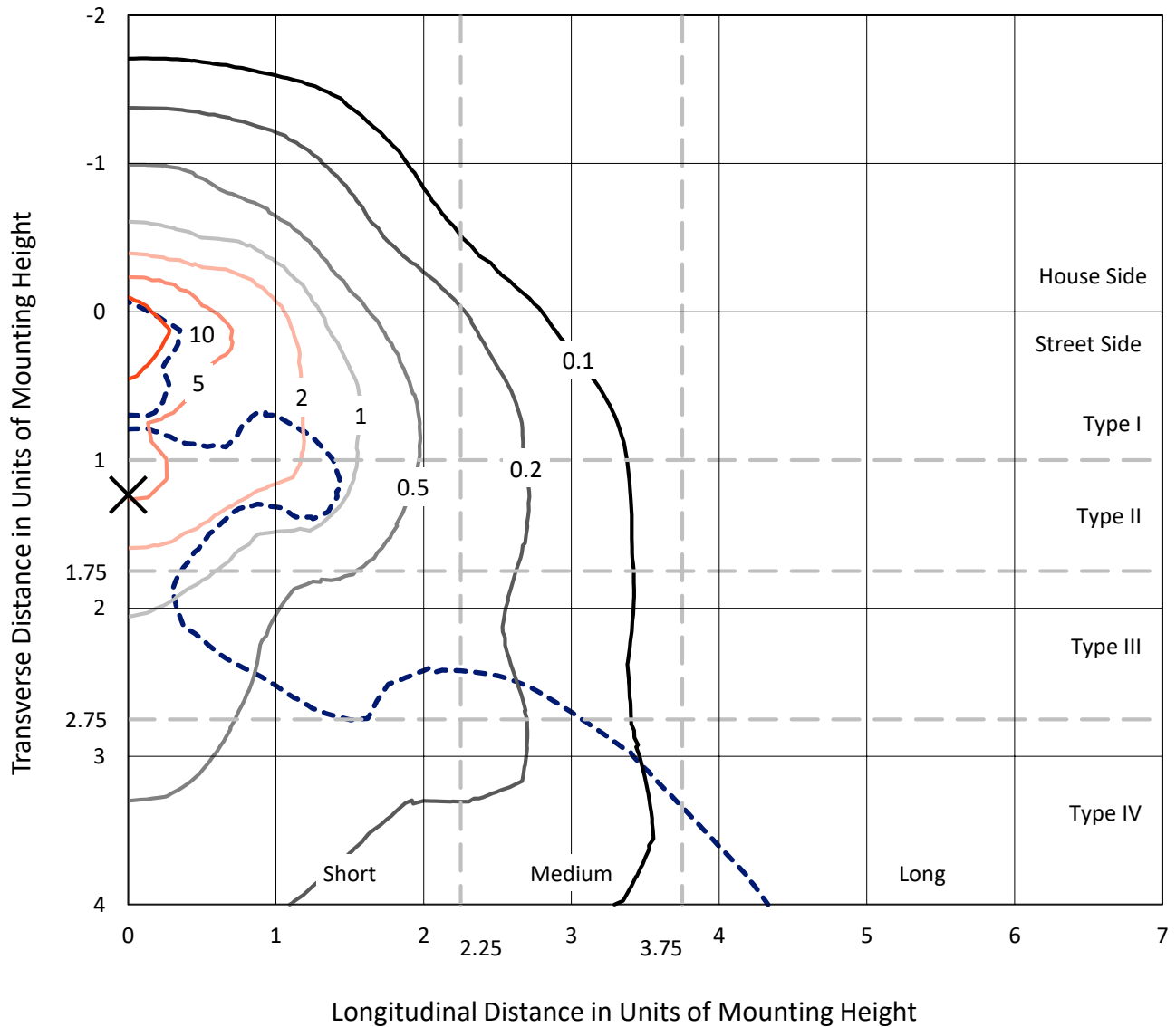
Input Watts (W): 31.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

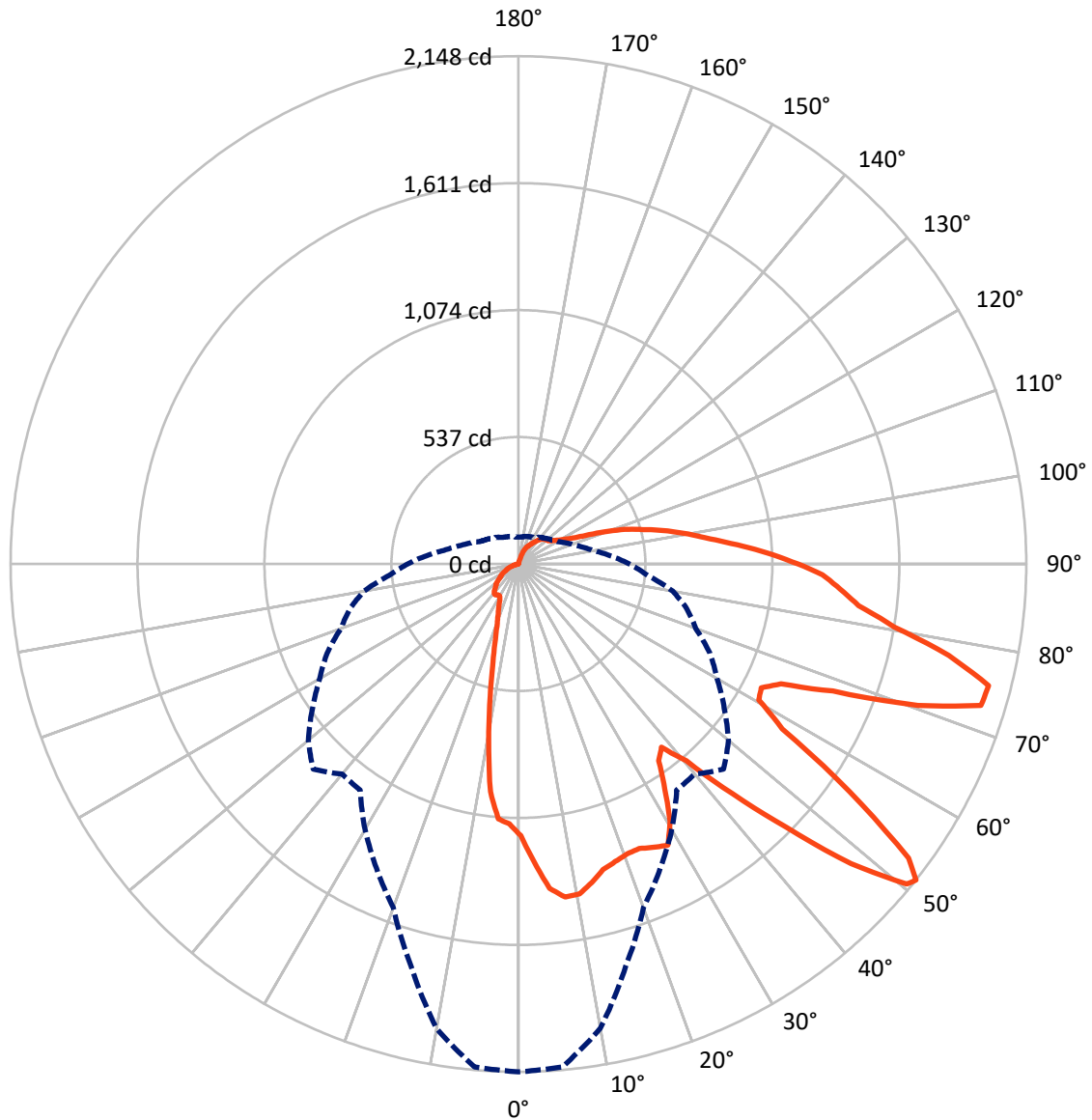
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 51-Deg Vertical

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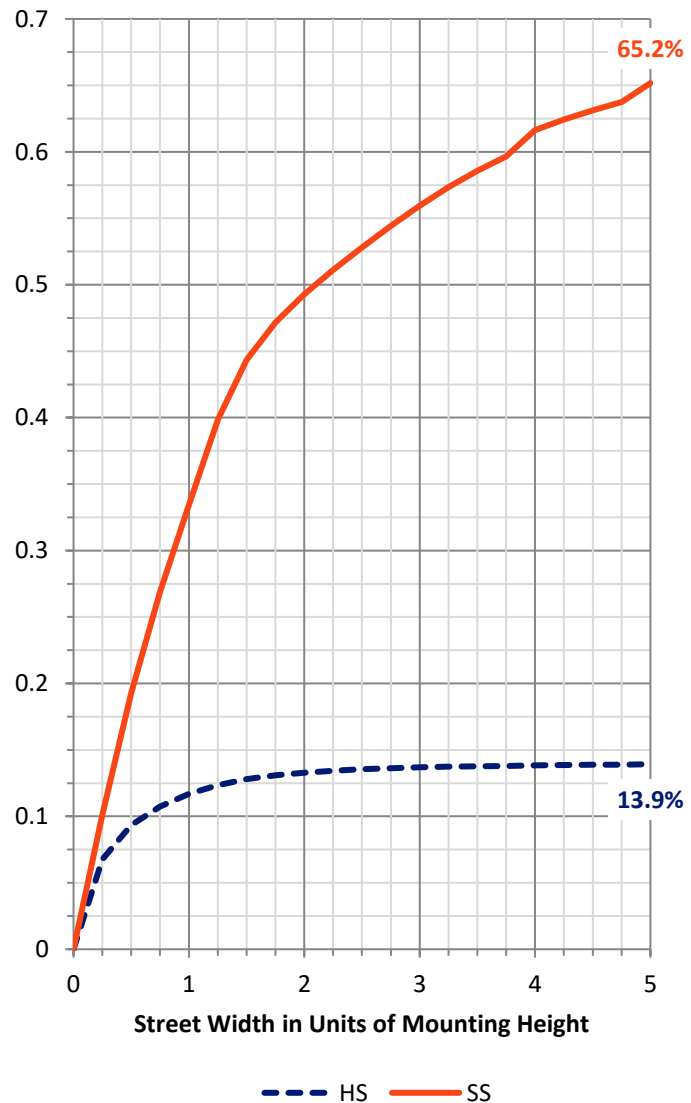
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	592.9	31.0	624.0
	% Fixture	14.1	0.7	14.9
<b>Street Side</b>	Lumens	2984.1	590.7	3574.8
	% Fixture	71.1	14.1	85.1
<b>Total</b>	Lumens	3577.0	621.7	4198.7
	% Fixture	85.2	14.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.3	2.6
10°-20°	261.7	6.2
20°-30°	331.0	7.9
30°-40°	389.0	9.3
40°-50°	505.3	12.0
50°-60°	560.2	13.3
60°-70°	460.8	11.0
70°-80°	563.3	13.4
80°-90°	395.4	9.4
90°-100°	242.2	5.8
100°-110°	154.1	3.7
110°-120°	90.3	2.2
120°-130°	60.9	1.5
130°-140°	41.4	1.0
140°-150°	22.4	0.5
150°-160°	8.8	0.2
160°-170°	1.5	0.0
170°-180°	0.1	0.0
0°-90°	3577.0	85.2
0°-180°	4198.7	100.0



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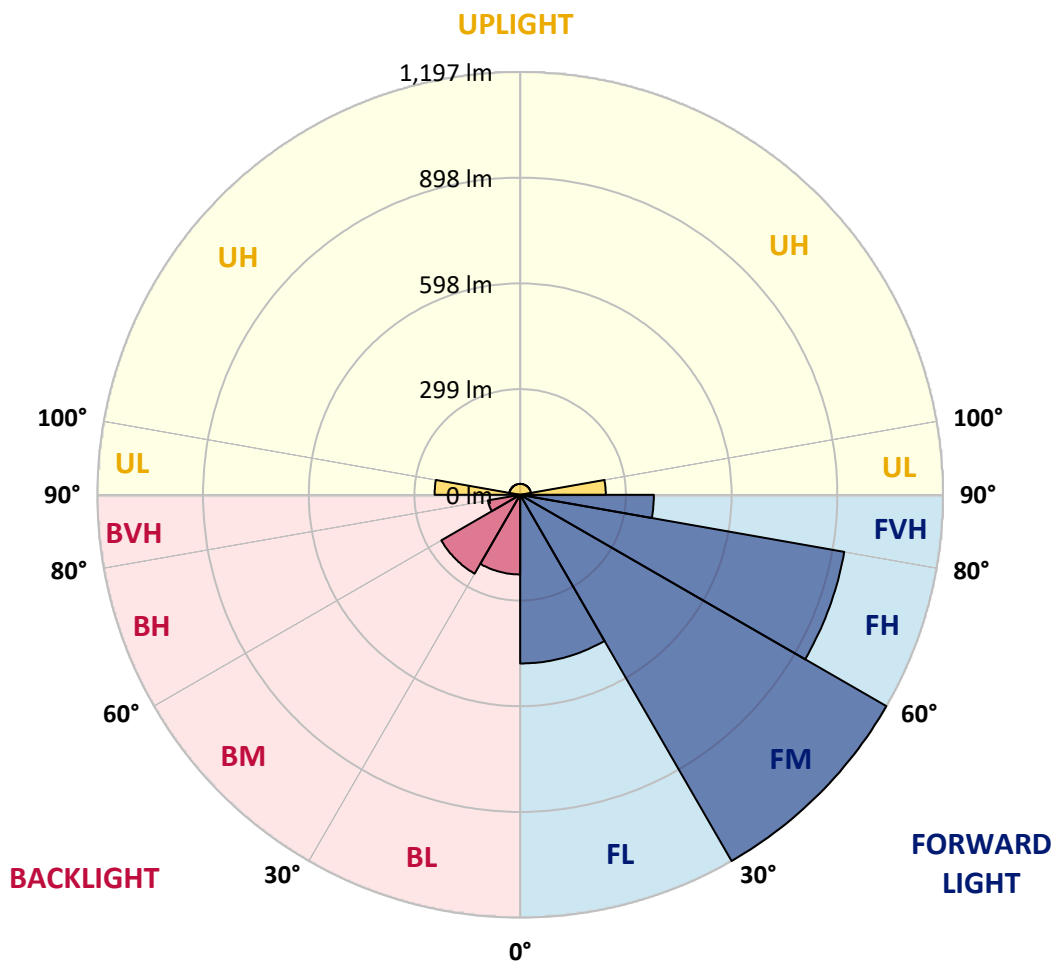
CATALOG NUMBER: LDWP-GL-4B-ED

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	477.4	11.4			
FM	(30°-60°)	1196.9	28.5			
FH	(60°-80°)	931.4	22.2			G1/1800
FVH	(80°-90°)	378.3	9.0			G3/500
BL	(0°-30°)	225.5	5.4	B1/500		
BM	(30°-60°)	257.6	6.1	B1/1000		
BH	(60°-80°)	92.7	2.2	B0/110		G0/110
BVH	(80°-90°)	17.2	0.4			G1/100
UL	(90°-100°)	242.2	5.8		U3/500	
UH	(100°-180°)	31.0	0.7		U2/50	

**BUG Rating: B1-U3-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7
2.5°	1260.8	1265.8	1257.8	1254.7	1260.8	1251.7	1246.7	1247.7	1239.6	1233.5	1223.4
5°	1377.9	1380.9	1375.9	1373.8	1374.9	1366.8	1356.7	1350.6	1337.5	1325.4	1306.2
7.5°	1422.3	1425.3	1425.3	1422.3	1420.3	1413.2	1409.2	1397.1	1379.9	1363.7	1336.5
10°	1419.3	1413.2	1414.2	1420.3	1418.3	1413.2	1403.1	1392.0	1371.8	1349.6	1317.3
12.5°	1381.9	1369.8	1374.9	1378.9	1378.9	1372.8	1363.7	1350.6	1328.4	1305.2	1274.9
15°	1341.5	1336.5	1337.5	1336.5	1326.4	1316.3	1301.2	1281.0	1258.8	1250.7	1239.6
17.5°	1323.4	1317.3	1307.2	1295.1	1274.9	1249.7	1221.4	1200.2	1187.1	1189.1	1195.2
20°	1309.2	1300.2	1283.0	1266.8	1234.5	1188.1	1146.7	1119.5	1106.3	1111.4	1135.6
22.5°	1307.2	1302.2	1281.0	1255.7	1206.3	1143.7	1092.2	1057.9	1041.7	1042.7	1057.9
25°	1327.4	1329.4	1309.2	1271.9	1201.2	1125.5	1067.0	1022.6	997.3	988.2	983.2
27.5°	1346.6	1345.6	1339.5	1297.1	1210.3	1121.5	1049.8	1000.4	962.0	936.8	931.7
30°	1263.8	1272.9	1285.0	1257.8	1188.1	1113.4	1042.7	982.2	933.7	897.4	885.3
32.5°	1137.6	1148.7	1180.0	1156.8	1104.3	1065.0	1025.6	973.1	918.6	875.2	844.9
35°	1021.6	1034.7	1058.9	1047.8	995.3	978.1	966.0	938.8	904.5	864.1	828.7
37.5°	983.2	989.2	992.3	954.9	908.5	889.3	892.3	884.3	873.2	856.0	842.9
40°	1095.2	1099.3	1075.1	991.3	912.5	874.2	870.1	867.1	860.0	858.0	883.3
42.5°	1329.4	1341.5	1307.2	1173.0	1031.6	946.9	905.5	883.3	872.2	894.4	939.8
45°	1587.8	1608.0	1553.5	1393.0	1215.4	1079.1	998.3	936.8	936.8	963.0	997.3
47.5°	1893.7	1902.8	1801.8	1597.9	1406.1	1247.7	1122.5	1038.7	1029.6	1066.0	1057.9
50°	2128.9	2121.8	1987.6	1741.3	1533.3	1393.0	1252.7	1132.6	1126.5	1193.2	1126.5
51°	2148.1	2135.0	1994.6	1758.4	1546.5	1420.3	1297.1	1166.9	1159.8	1227.5	1159.8
52.5°	2066.3	2064.3	1921.0	1703.9	1515.2	1417.2	1314.3	1196.2	1184.1	1285.0	1204.3
55°	1698.9	1690.8	1611.1	1448.5	1324.4	1249.7	1222.4	1203.2	1214.4	1324.4	1250.7
57.5°	1316.3	1318.3	1275.9	1181.0	1087.2	1018.5	991.3	1090.2	1211.3	1315.3	1233.5
60°	1167.9	1164.9	1106.3	1026.6	949.9	855.0	806.5	911.5	1128.6	1209.3	1158.8
62.5°	1152.8	1130.6	1044.8	947.9	877.2	787.4	717.7	780.3	1027.6	1055.9	1037.7
65°	1220.4	1180.0	1056.9	946.9	858.0	761.1	684.4	700.5	879.2	908.5	889.3
67.5°	1434.4	1391.0	1220.4	1066.0	935.7	809.6	711.7	708.6	782.3	802.5	784.3
70°	1791.8	1745.3	1513.1	1296.1	1139.7	959.0	847.9	853.0	837.8	779.3	751.0
72.5°	2046.1	2012.8	1758.4	1534.3	1338.5	1155.8	1050.8	1125.5	1074.0	904.5	796.4
75°	2054.2	2018.9	1791.8	1618.1	1433.4	1287.0	1214.4	1407.2	1451.6	1195.2	886.3
77.5°	1860.4	1812.9	1626.2	1522.2	1368.8	1261.8	1216.4	1476.8	1620.1	1407.2	951.9
80°	1611.1	1574.7	1419.3	1352.6	1210.3	1115.4	1061.9	1237.6	1412.2	1284.0	882.2
82.5°	1449.6	1426.3	1291.1	1203.2	1049.8	938.8	872.2	945.8	1024.6	967.0	720.7
85°	1365.8	1330.4	1197.2	1079.1	919.6	805.5	739.9	764.1	772.2	699.5	586.5
87.5°	1287.0	1241.6	1095.2	959.0	813.6	705.6	652.1	670.3	650.1	575.4	505.7
90°	1155.8	1106.3	963.0	838.8	715.7	620.8	578.4	595.6	564.3	502.7	449.2
92.5°	1029.6	982.2	857.0	744.0	634.9	556.2	519.9	530.0	506.7	454.2	416.9
95°	904.5	864.1	760.1	670.3	573.4	503.7	479.5	479.5	460.3	415.9	395.7
97.5°	796.4	768.2	682.4	606.7	521.9	458.3	435.1	435.1	411.9	380.6	376.5
100°	712.7	687.4	612.7	542.1	470.4	416.9	394.7	392.7	369.5	347.2	352.3
102.5°	628.9	604.7	538.0	476.5	417.9	375.5	355.3	343.2	327.1	319.0	326.0
105°	546.1	525.9	468.4	414.9	368.4	334.1	308.9	297.8	289.7	291.7	299.8
107.5°	474.4	455.3	404.8	359.4	321.0	287.7	261.4	257.4	259.4	267.5	275.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	389.6	376.5	338.2	300.8	268.5	242.3	224.1	225.1	234.2	246.3	249.3
112.5°	307.9	300.8	274.6	247.3	226.1	207.9	197.8	202.9	213.0	227.1	221.1
115°	254.4	250.3	233.2	215.0	201.9	188.8	181.7	184.7	194.8	206.9	194.8
117.5°	222.1	220.1	209.0	195.8	185.7	176.7	169.6	170.6	181.7	188.8	177.7
120°	199.9	198.9	189.8	182.7	173.6	166.6	160.5	159.5	169.6	171.6	170.6
122.5°	182.7	183.7	179.7	173.6	165.5	158.5	152.4	152.4	159.5	167.6	163.5
125°	169.6	170.6	167.6	163.5	155.5	149.4	146.4	146.4	153.4	164.5	155.5
127.5°	159.5	160.5	158.5	154.4	148.4	144.3	142.3	142.3	148.4	157.5	151.4
130°	157.5	157.5	155.5	151.4	144.3	141.3	138.3	138.3	142.3	149.4	144.3
132.5°	152.4	151.4	149.4	146.4	141.3	136.3	133.2	132.2	135.3	136.3	133.2
135°	148.4	146.4	142.3	140.3	134.3	130.2	126.2	125.2	125.2	124.2	120.1
137.5°	141.3	139.3	136.3	133.2	128.2	124.2	121.1	118.1	115.1	112.0	106.0
140°	130.2	129.2	128.2	127.2	122.1	118.1	113.1	109.0	105.0	99.9	92.9
142.5°	118.1	118.1	118.1	116.1	113.1	109.0	104.0	98.9	93.9	87.8	80.8
145°	108.0	108.0	107.0	104.0	100.9	97.9	93.9	88.8	82.8	76.7	68.6
147.5°	98.9	98.9	97.9	94.9	91.9	87.8	83.8	78.7	72.7	66.6	57.5
150°	89.8	89.8	87.8	85.8	82.8	78.7	73.7	68.6	62.6	54.5	43.4
152.5°	81.8	80.8	79.7	77.7	74.7	70.7	65.6	58.5	50.5	41.4	33.3
155°	72.7	72.7	71.7	69.7	65.6	60.6	54.5	46.4	38.4	30.3	21.2
157.5°	61.6	60.6	59.6	56.5	52.5	47.4	40.4	33.3	25.2	18.2	12.1
160°	44.4	43.4	41.4	39.4	35.3	30.3	25.2	17.2	13.1	9.1	7.1
162.5°	24.2	23.2	22.2	20.2	17.2	13.1	11.1	8.1	7.1	5.0	3.0
165°	8.1	8.1	8.1	8.1	7.1	6.1	5.0	4.0	3.0	3.0	3.0
167.5°	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	3.0	3.0	3.0
170°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7
2.5°	1211.3	1201.2	1192.1	1182.1	1170.9	1164.9	1154.8	1146.7	1137.6	1122.5	1118.5
5°	1286.0	1261.8	1239.6	1210.3	1185.1	1163.9	1142.7	1125.5	1108.4	1093.2	1086.2
7.5°	1310.2	1277.9	1248.7	1208.3	1168.9	1130.6	1096.2	1067.0	1045.8	1030.6	1025.6
10°	1283.0	1244.6	1205.3	1162.9	1120.5	1079.1	1041.7	1006.4	984.2	972.1	968.1
12.5°	1245.6	1215.4	1179.0	1136.6	1092.2	1044.8	999.3	962.0	937.8	922.6	921.6
15°	1225.5	1202.2	1176.0	1130.6	1079.1	1025.6	967.0	921.6	894.4	878.2	872.2
17.5°	1201.2	1190.1	1159.8	1112.4	1051.8	995.3	927.7	875.2	848.9	835.8	819.7
20°	1152.8	1152.8	1122.5	1077.1	1018.5	948.9	882.2	826.7	800.5	783.3	752.0
22.5°	1069.0	1079.1	1078.1	1042.7	989.2	917.6	848.9	791.4	762.1	738.9	691.5
25°	991.3	1009.4	1025.6	1006.4	959.0	884.3	813.6	758.1	725.8	692.5	630.9
27.5°	928.7	945.8	962.0	964.0	927.7	866.1	796.4	745.0	713.7	665.2	590.5
30°	878.2	883.3	919.6	950.9	935.7	881.2	814.6	758.1	726.8	669.3	579.4
32.5°	837.8	862.1	909.5	962.0	963.0	910.5	844.9	791.4	750.0	680.4	572.4
35°	829.8	856.0	908.5	971.1	982.2	927.7	863.1	803.5	749.0	663.2	545.1
37.5°	849.9	864.1	907.5	971.1	987.2	935.7	866.1	787.4	716.7	612.7	498.7
40°	891.3	883.3	916.6	968.1	981.2	938.8	847.9	755.1	664.2	546.1	437.1
42.5°	941.8	916.6	932.7	961.0	967.0	909.5	808.6	711.7	603.6	483.5	387.6
45°	997.3	962.0	941.8	939.8	933.7	864.1	756.1	655.1	547.1	437.1	355.3
47.5°	1038.7	983.2	922.6	877.2	853.0	784.3	673.3	578.4	480.5	391.7	326.0
50°	1053.9	979.2	896.4	815.6	765.2	694.5	585.5	498.7	417.9	343.2	291.7
51°	1062.9	970.1	893.4	798.5	738.9	663.2	548.1	468.4	391.7	324.0	276.6
52.5°	1079.1	961.0	886.3	784.3	704.6	616.8	502.7	426.0	357.3	294.8	258.4
55°	1081.1	944.8	872.2	770.2	667.2	556.2	449.2	379.5	313.9	262.5	228.1
57.5°	1087.2	925.7	852.0	765.2	641.0	517.8	418.9	352.3	289.7	238.2	204.9
60°	1042.7	868.1	802.5	732.9	600.6	483.5	403.8	345.2	279.6	220.1	185.7
62.5°	947.9	797.5	732.9	673.3	555.2	463.3	391.7	334.1	271.5	206.9	168.6
65°	830.8	753.0	688.4	615.8	521.9	443.1	376.5	318.0	248.3	185.7	156.5
67.5°	737.9	724.8	678.3	576.4	512.8	429.0	353.3	298.8	221.1	165.5	143.3
70°	715.7	708.6	659.2	551.2	503.7	421.9	332.1	268.5	188.8	153.4	129.2
72.5°	736.9	689.4	611.7	535.0	481.5	404.8	306.9	220.1	159.5	132.2	116.1
75°	764.1	679.4	586.5	526.9	469.4	395.7	281.6	178.7	140.3	111.0	105.0
77.5°	764.1	669.3	591.5	518.9	454.2	388.6	249.3	150.4	115.1	96.9	94.9
80°	689.4	616.8	561.2	492.6	438.1	349.3	214.0	134.3	92.9	84.8	86.8
82.5°	565.3	525.9	486.5	445.2	413.9	290.7	174.6	112.0	76.7	75.7	77.7
85°	462.3	461.3	424.0	379.5	357.3	239.2	143.3	78.7	64.6	65.6	68.6
87.5°	406.8	411.9	376.5	329.1	287.7	196.8	119.1	63.6	54.5	56.5	59.6
90°	381.6	376.5	337.2	287.7	225.1	154.4	81.8	52.5	48.5	49.5	50.5
92.5°	364.4	354.3	307.9	249.3	188.8	132.2	73.7	45.4	43.4	43.4	44.4
95°	346.2	335.1	281.6	209.0	157.5	102.0	61.6	43.4	41.4	40.4	40.4
97.5°	335.1	310.9	249.3	180.7	141.3	90.8	55.5	42.4	39.4	38.4	38.4
100°	314.9	292.7	219.0	166.6	123.2	81.8	55.5	42.4	38.4	36.3	36.3
102.5°	293.7	264.5	195.8	155.5	110.0	76.7	55.5	43.4	37.3	35.3	35.3
105°	270.5	233.2	181.7	146.4	104.0	74.7	55.5	42.4	37.3	34.3	33.3
107.5°	241.3	204.9	171.6	130.2	99.9	75.7	54.5	41.4	36.3	33.3	31.3



REPORT NUMBER: P184288

CATALOG NUMBER: LDWP-GL-4B-ED

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
110°	215.0	188.8	162.5	121.1	97.9	75.7	51.5	40.4	35.3	32.3	30.3
112.5°	190.8	178.7	144.3	114.1	93.9	72.7	49.5	39.4	34.3	30.3	28.3
115°	180.7	166.6	131.2	110.0	90.8	68.6	47.4	38.4	32.3	29.3	26.2
117.5°	175.6	151.4	123.2	105.0	85.8	61.6	44.4	36.3	30.3	27.3	23.2
120°	158.5	138.3	119.1	99.9	78.7	54.5	40.4	33.3	28.3	24.2	21.2
122.5°	147.4	132.2	115.1	93.9	71.7	49.5	37.3	30.3	26.2	22.2	19.2
125°	142.3	128.2	109.0	86.8	64.6	45.4	34.3	28.3	24.2	20.2	18.2
127.5°	137.3	120.1	100.9	80.8	58.5	40.4	30.3	25.2	22.2	19.2	16.2
130°	129.2	113.1	93.9	73.7	52.5	36.3	26.2	22.2	20.2	17.2	15.1
132.5°	120.1	105.0	86.8	65.6	46.4	30.3	23.2	20.2	18.2	15.1	13.1
135°	110.0	94.9	78.7	57.5	38.4	25.2	21.2	18.2	16.2	14.1	12.1
137.5°	97.9	84.8	67.6	46.4	30.3	22.2	19.2	16.2	15.1	12.1	10.1
140°	85.8	73.7	55.5	36.3	24.2	20.2	17.2	15.1	13.1	11.1	9.1
142.5°	73.7	60.6	44.4	28.3	19.2	16.2	14.1	13.1	12.1	10.1	8.1
145°	59.6	47.4	34.3	22.2	15.1	13.1	12.1	11.1	10.1	8.1	7.1
147.5°	46.4	35.3	23.2	15.1	12.1	11.1	11.1	10.1	9.1	7.1	6.1
150°	34.3	23.2	15.1	10.1	9.1	9.1	9.1	9.1	8.1	6.1	5.0
152.5°	22.2	14.1	9.1	7.1	7.1	8.1	8.1	7.1	7.1	5.0	4.0
155°	13.1	9.1	5.0	5.0	6.1	6.1	7.1	6.1	6.1	5.0	4.0
157.5°	8.1	4.0	3.0	4.0	4.0	5.0	6.1	6.1	6.1	5.0	4.0
160°	4.0	3.0	3.0	4.0	4.0	5.0	6.1	6.1	6.1	5.0	4.0
162.5°	3.0	3.0	3.0	4.0	4.0	5.0	6.1	6.1	6.1	5.0	4.0
165°	3.0	3.0	3.0	4.0	4.0	5.0	6.1	6.1	6.1	5.0	5.0
167.5°	3.0	3.0	3.0	4.0	5.0	5.0	6.1	6.1	6.1	5.0	4.0
170°	3.0	3.0	3.0	4.0	4.0	5.0	6.1	6.1	6.1	5.0	4.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P184288

CATALOG NUMBER: LDWP-GL-4B-ED

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7	1148.7
2.5°	1112.4	1105.3	1103.3	1098.3	1095.2	1091.2	1093.2	1094.2	1093.2	1095.2	1095.2
5°	1078.1	1078.1	1080.1	1079.1	1083.1	1080.1	1081.1	1080.1	1078.1	1080.1	1079.1
7.5°	1024.6	1035.7	1041.7	1043.8	1040.7	1033.7	1027.6	1023.6	1011.5	1007.4	991.3
10°	971.1	972.1	972.1	959.0	944.8	925.7	902.4	876.2	855.0	830.8	808.6
12.5°	916.6	903.4	885.3	852.0	808.6	766.2	727.8	690.5	662.2	647.0	615.8
15°	851.0	817.6	775.2	724.8	663.2	609.7	565.3	531.0	502.7	488.6	464.3
17.5°	783.3	726.8	671.3	603.6	535.0	481.5	441.1	407.8	385.6	371.5	357.3
20°	698.5	627.9	563.3	495.6	432.0	384.6	348.3	324.0	305.9	294.8	287.7
22.5°	621.8	540.0	469.4	405.8	355.3	318.0	289.7	268.5	255.4	245.3	240.2
25°	557.2	467.4	394.7	339.2	301.8	271.5	250.3	233.2	222.1	215.0	207.9
27.5°	498.7	403.8	341.2	294.8	261.4	240.2	223.1	210.0	198.9	189.8	182.7
30°	466.4	364.4	301.8	260.4	234.2	217.0	202.9	189.8	180.7	170.6	163.5
32.5°	448.2	344.2	278.6	239.2	215.0	197.8	185.7	174.6	165.5	156.5	153.4
35°	426.0	331.1	267.5	229.1	201.9	183.7	173.6	160.5	155.5	150.4	151.4
37.5°	394.7	317.0	265.5	225.1	194.8	175.6	161.5	153.4	149.4	150.4	154.4
40°	362.4	303.8	258.4	222.1	195.8	170.6	155.5	148.4	150.4	154.4	157.5
42.5°	327.1	282.6	246.3	215.0	191.8	166.6	151.4	148.4	151.4	155.5	158.5
45°	301.8	260.4	227.1	202.9	182.7	162.5	150.4	148.4	149.4	152.4	152.4
47.5°	278.6	239.2	211.0	188.8	173.6	160.5	150.4	145.4	144.3	142.3	138.3
50°	251.3	222.1	195.8	178.7	167.6	157.5	148.4	141.3	134.3	130.2	127.2
51°	242.3	214.0	189.8	175.6	165.5	154.4	147.4	138.3	130.2	126.2	123.2
52.5°	228.1	202.9	182.7	171.6	162.5	152.4	144.3	134.3	125.2	121.1	117.1
55°	204.9	185.7	173.6	162.5	155.5	146.4	137.3	127.2	119.1	112.0	105.0
57.5°	182.7	170.6	161.5	152.4	146.4	138.3	129.2	119.1	109.0	100.9	94.9
60°	165.5	156.5	150.4	141.3	136.3	129.2	122.1	109.0	98.9	92.9	86.8
62.5°	152.4	143.3	139.3	131.2	125.2	121.1	112.0	99.9	90.8	83.8	75.7
65°	140.3	133.2	129.2	122.1	115.1	110.0	100.9	89.8	80.8	70.7	63.6
67.5°	130.2	125.2	120.1	112.0	104.0	96.9	88.8	78.7	67.6	58.5	52.5
70°	120.1	117.1	111.0	100.9	91.9	83.8	76.7	65.6	55.5	46.4	42.4
72.5°	110.0	108.0	100.9	89.8	78.7	70.7	63.6	53.5	43.4	36.3	32.3
75°	102.0	98.9	89.8	78.7	66.6	58.5	50.5	41.4	33.3	26.2	23.2
77.5°	91.9	88.8	79.7	66.6	55.5	45.4	38.4	31.3	23.2	16.2	12.1
80°	83.8	78.7	69.7	57.5	45.4	34.3	27.3	20.2	12.1	6.1	3.0
82.5°	74.7	68.6	61.6	49.5	35.3	25.2	19.2	13.1	7.1	3.0	3.0
85°	64.6	59.6	53.5	42.4	29.3	20.2	15.1	10.1	5.0	3.0	2.0
87.5°	56.5	52.5	47.4	36.3	25.2	17.2	13.1	8.1	4.0	2.0	2.0
90°	48.5	45.4	40.4	30.3	21.2	15.1	11.1	7.1	4.0	2.0	2.0
92.5°	42.4	39.4	33.3	26.2	19.2	13.1	9.1	6.1	3.0	2.0	2.0
95°	38.4	34.3	28.3	23.2	17.2	12.1	8.1	5.0	3.0	2.0	2.0
97.5°	35.3	30.3	24.2	20.2	15.1	11.1	7.1	4.0	2.0	2.0	2.0
100°	33.3	28.3	22.2	18.2	13.1	10.1	6.1	3.0	2.0	2.0	2.0
102.5°	32.3	26.2	20.2	16.2	12.1	9.1	6.1	3.0	2.0	2.0	2.0
105°	30.3	24.2	19.2	15.1	12.1	8.1	5.0	2.0	2.0	2.0	1.0
107.5°	28.3	22.2	17.2	14.1	11.1	7.1	4.0	2.0	2.0	1.0	1.0



REPORT NUMBER: P184288  
 CATALOG NUMBER: LDWP-GL-4B-ED

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
110°	25.2	20.2	16.2	13.1	10.1	6.1	3.0	2.0	2.0	1.0	1.0	0°
112.5°	23.2	19.2	15.1	13.1	9.1	6.1	3.0	2.0	2.0	1.0	1.0	2.5°
115°	22.2	18.2	15.1	12.1	9.1	5.0	3.0	2.0	2.0	2.0	2.0	5°
117.5°	20.2	16.2	14.1	11.1	8.1	5.0	3.0	2.0	2.0	2.0	2.0	7.5°
120°	18.2	15.1	13.1	10.1	7.1	4.0	2.0	2.0	2.0	2.0	2.0	10°
122.5°	17.2	14.1	12.1	9.1	6.1	4.0	2.0	2.0	2.0	2.0	2.0	12.5°
125°	15.1	13.1	10.1	8.1	5.0	3.0	2.0	2.0	2.0	2.0	2.0	15°
127.5°	14.1	12.1	9.1	7.1	5.0	3.0	2.0	2.0	2.0	2.0	2.0	17.5°
130°	13.1	10.1	8.1	6.1	4.0	3.0	2.0	2.0	2.0	2.0	2.0	20°
132.5°	11.1	9.1	7.1	5.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	22.5°
135°	10.1	8.1	6.1	5.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	25°
137.5°	8.1	7.1	5.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	27.5°
140°	7.1	6.1	5.0	4.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0	30°
142.5°	6.1	5.0	4.0	4.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0	32.5°
145°	5.0	4.0	4.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	35°
147.5°	5.0	4.0	4.0	4.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0	37.5°
150°	4.0	4.0	4.0	4.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0	40°
152.5°	4.0	4.0	4.0	4.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0	42.5°
155°	4.0	4.0	4.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	45°
157.5°	4.0	4.0	4.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	47.5°
160°	4.0	4.0	4.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0	1.0	50°
162.5°	4.0	4.0	4.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	51°
165°	4.0	4.0	4.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	52.5°
167.5°	4.0	4.0	4.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	55°
170°	4.0	4.0	3.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0	1.0	57.5°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P184288  
 NUMBER: LDWP-GL-4B-ED

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

165°	170°	175°	180°
1148.7	1148.7	1148.7	1148.7
1099.3	1095.2	1096.2	1099.3
1081.1	1080.1	1077.1	1081.1
982.2	975.1	966.0	970.1
791.4	775.2	757.1	760.1
600.6	587.5	570.3	570.3
453.2	443.1	428.0	427.0
348.3	341.2	332.1	331.1
280.6	274.6	268.5	266.5
237.2	234.2	229.1	228.1
206.9	203.9	199.9	198.9
182.7	179.7	175.6	174.6
162.5	161.5	159.5	158.5
154.4	155.5	155.5	155.5
154.4	155.5	158.5	158.5
157.5	159.5	162.5	163.5
159.5	159.5	161.5	160.5
158.5	153.4	152.4	151.4
148.4	142.3	139.3	138.3
135.3	131.2	129.2	129.2
126.2	122.1	120.1	120.1
121.1	117.1	114.1	114.1
114.1	109.0	105.0	105.0
100.9	97.9	94.9	93.9
91.9	89.8	86.8	85.8
82.8	79.7	76.7	75.7
70.7	66.6	64.6	62.6
59.6	56.5	55.5	54.5
49.5	48.5	47.4	47.4
40.4	39.4	37.3	37.3
30.3	28.3	27.3	27.3
21.2	19.2	18.2	18.2
10.1	9.1	9.1	9.1
3.0	2.0	2.0	1.0
2.0	2.0	2.0	1.0
2.0	2.0	1.0	1.0
2.0	2.0	1.0	1.0
2.0	1.0	1.0	1.0
2.0	2.0	1.0	1.0
2.0	2.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	0.0	0.0
1.0	1.0	0.0	0.0

**CANDELA DISTRIBUTION:**

	165°
110°	1.0
112.5°	1.0
115°	1.0
117.5°	2.0
120°	1.0
122.5°	1.0
125°	1.0
127.5°	1.0
130°	1.0
132.5°	1.0
135°	2.0
137.5°	2.0
140°	2.0
142.5°	2.0
145°	1.0
147.5°	2.0
150°	1.0
152.5°	1.0
155°	1.0
157.5°	1.0
160°	1.0
162.5°	1.0
165°	1.0
167.5°	1.0
170°	1.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0



'184288  
LDWP-GL-4B-ED

**TION (continued):**

170°	175°	180°
1.0	0.0	0.0
1.0	0.0	0.0
1.0	1.0	1.0
2.0	1.0	1.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	1.0	0.0
1.0	0.0	0.0
1.0	0.0	0.0
1.0	0.0	0.0
1.0	0.0	0.0
1.0	0.0	0.0
1.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0

(END OF REPORT)