

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: P188108

Luminaire Tested: **QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P92791)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)
Description: LUMARK QUADCAST PARKING GARAGE/CANOPY FIXTURE W/4 ROTATING OPTICAL LIGHT PANELS
Light Source: (4) 4000K SMT LED OPTICAL PANELS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5184.2 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.23')
IES Classification: Type V - Short - Cutoff
BUG Rating: B2 - U3 - G1

Input Watts (W): 54
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

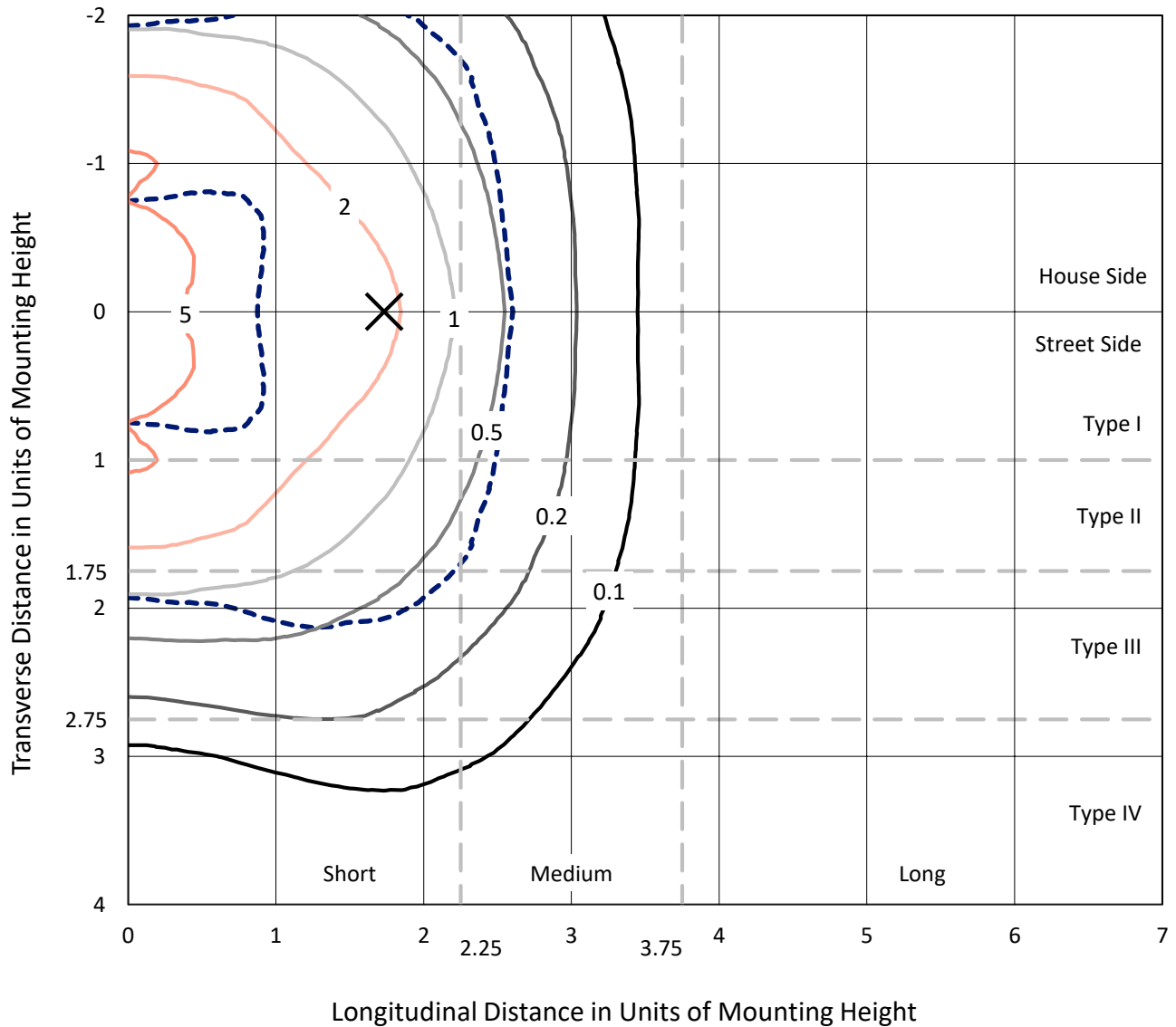


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

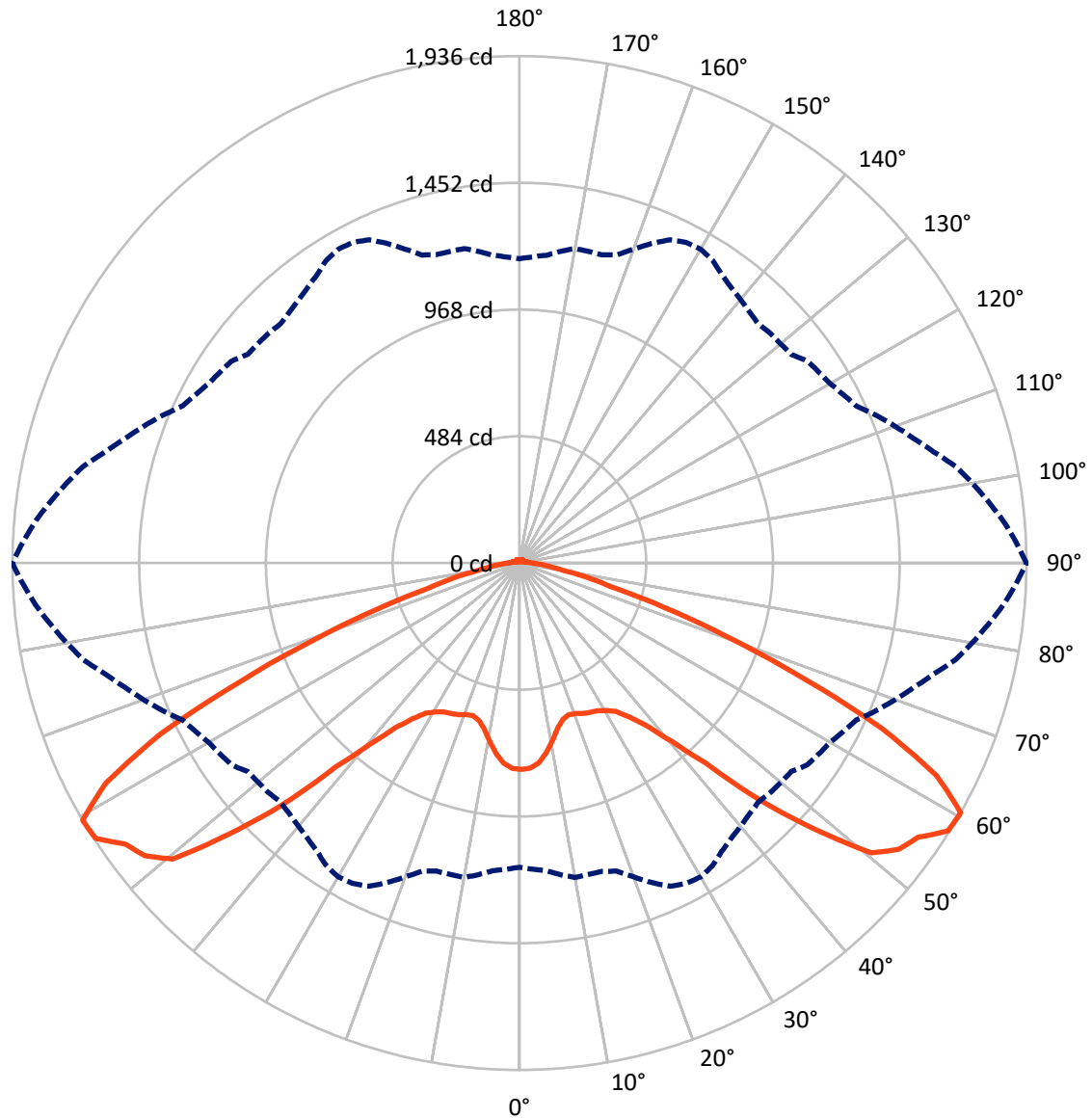


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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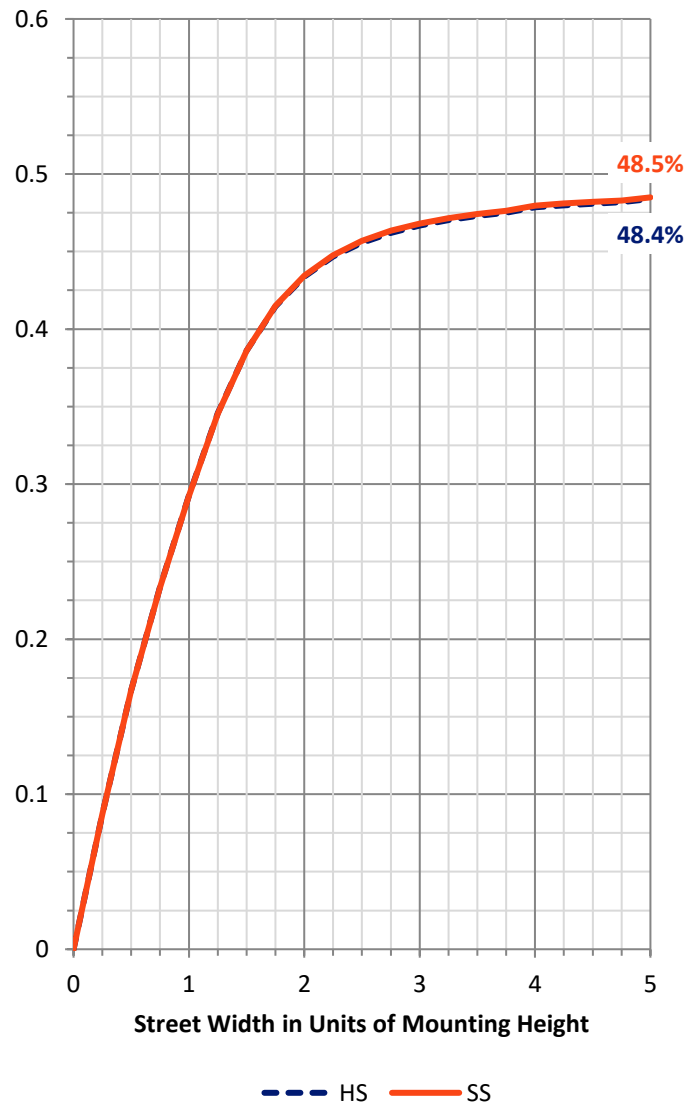
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2540.5	51.6	2592.1
	% Fixture	49.0	1.0	50.0
Street Side	Lumens	2540.6	51.6	2592.1
	% Fixture	49.0	1.0	50.0
Total	Lumens	5081.1	103.1	5184.2
	% Fixture	98.0	2.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	1.4
10°-20°	210.8	4.1
20°-30°	349.8	6.7
30°-40°	515.5	9.9
40°-50°	869.1	16.8
50°-60°	1274.7	24.6
60°-70°	1145.1	22.1
70°-80°	507.0	9.8
80°-90°	134.2	2.6
90°-100°	37.3	0.7
100°-110°	16.3	0.3
110°-120°	10.9	0.2
120°-130°	10.6	0.2
130°-140°	10.9	0.2
140°-150°	9.2	0.2
150°-160°	5.4	0.1
160°-170°	2.1	0.0
170°-180°	0.4	0.0
0°-90°	5081.1	98.0
0°-180°	5184.2	100.0



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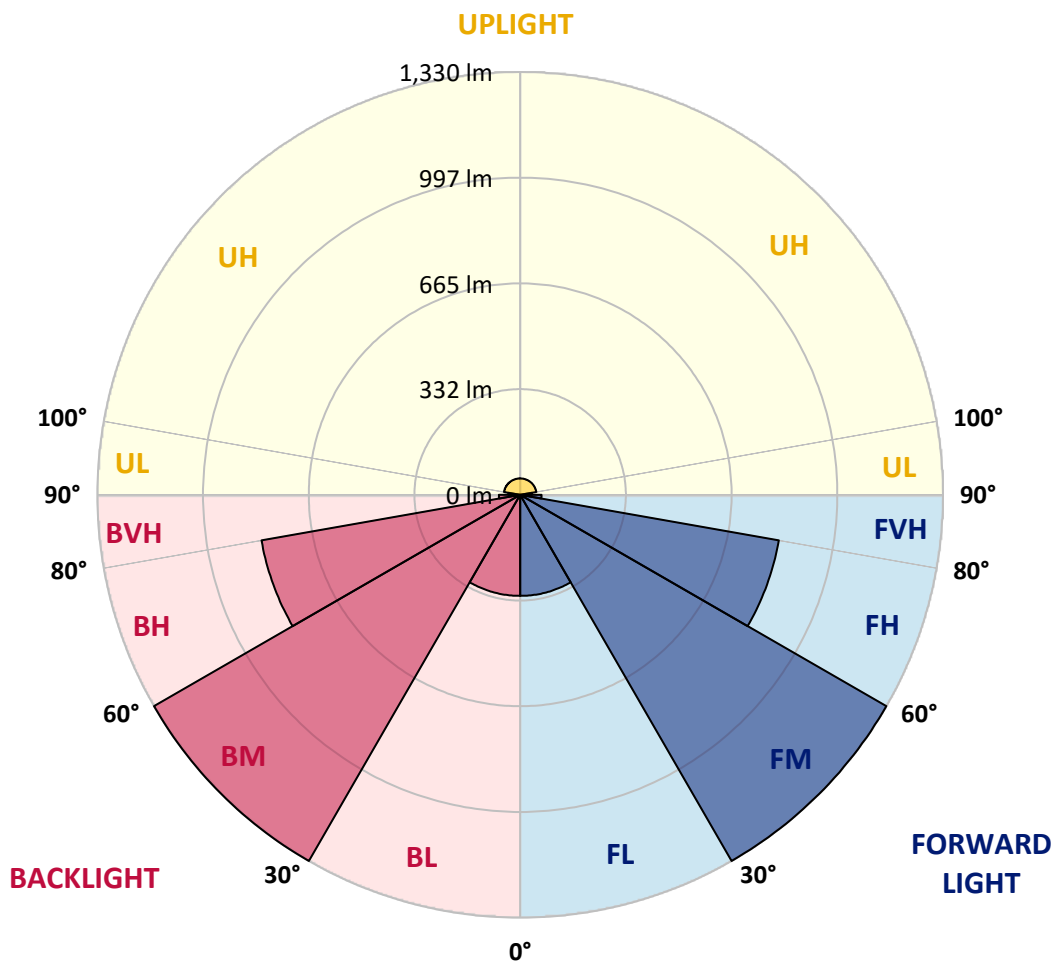
CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	317.7	6.1			
FM	(30°-60°)	1329.7	25.6			
FH	(60°-80°)	826.0	15.9			G1/1800
FVH	(80°-90°)	67.1	1.3			G1/100
BL	(0°-30°)	317.7	6.1	B1/500		
BM	(30°-60°)	1329.7	25.6	B2/2500		
BH	(60°-80°)	826.0	15.9	B2/1000		G1/1800
BVH	(80°-90°)	67.1	1.3			G1/100
UL	(90°-100°)	37.3	0.7		U2/50	
UH	(100°-180°)	51.6	1.0		U3/500	

BUG Rating: B2-U3-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8
2.5°	800.7	800.7	799.5	799.5	799.5	799.5	799.5	798.3	799.5	798.3	797.2
5°	826.4	826.4	824.1	824.1	821.7	821.7	819.4	818.2	814.7	813.5	810.0
7.5°	872.0	870.8	868.5	866.1	862.6	858.0	854.4	848.6	841.6	834.6	827.6
10°	916.4	915.2	909.4	901.2	896.5	888.3	880.2	869.6	856.8	847.4	834.6
12.5°	912.9	911.7	908.2	903.5	900.0	891.9	883.7	870.8	859.1	843.9	832.2
15°	900.0	901.2	900.0	893.0	886.0	875.5	866.1	856.8	849.8	839.3	828.7
17.5°	884.8	881.3	879.0	874.3	870.8	861.5	852.1	846.3	841.6	834.6	828.7
20°	866.1	865.0	859.1	855.6	850.9	845.1	839.3	836.9	835.7	832.2	829.9
22.5°	854.4	852.1	847.4	842.8	838.1	836.9	834.6	838.1	840.4	834.6	833.4
25°	847.4	845.1	842.8	841.6	840.4	839.3	835.7	836.9	840.4	840.4	838.1
27.5°	850.9	849.8	850.9	850.9	852.1	849.8	845.1	847.4	849.8	848.6	845.1
30°	863.8	863.8	865.0	866.1	863.8	862.6	859.1	860.3	860.3	856.8	852.1
32.5°	891.9	889.5	886.0	884.8	884.8	882.5	877.8	876.7	870.8	863.8	856.8
35°	929.3	925.7	916.4	914.1	912.9	907.0	898.9	893.0	883.7	872.0	865.0
37.5°	983.0	978.3	970.2	959.6	956.1	949.1	938.6	925.7	910.6	897.7	883.7
40°	1092.9	1088.2	1082.4	1064.8	1048.5	1039.1	1018.1	991.2	964.3	938.6	917.6
42.5°	1322.0	1312.6	1292.8	1258.9	1220.3	1192.3	1154.8	1111.6	1066.0	1020.4	985.4
45°	1538.2	1533.6	1519.5	1493.8	1456.4	1402.6	1362.9	1293.9	1234.3	1170.0	1116.3
47.5°	1643.4	1639.9	1621.2	1604.9	1567.5	1519.5	1482.1	1433.0	1382.8	1327.8	1277.6
50°	1637.6	1636.4	1634.1	1629.4	1595.5	1552.3	1504.3	1476.3	1442.4	1405.0	1368.8
52.5°	1565.1	1568.6	1574.5	1581.5	1565.1	1546.4	1505.5	1490.3	1465.8	1441.2	1419.0
55°	1478.6	1482.1	1489.1	1495.0	1499.7	1481.0	1455.2	1449.4	1454.1	1451.7	1443.6
57.5°	1355.9	1358.2	1359.4	1376.9	1398.0	1386.3	1380.4	1373.4	1396.8	1417.8	1431.9
60°	1161.9	1170.0	1179.4	1200.4	1219.1	1218.0	1219.1	1233.2	1275.2	1320.8	1361.7
62.5°	979.5	984.2	994.7	1020.4	1035.6	1045.0	1052.0	1074.2	1112.8	1163.0	1207.4
65°	751.6	757.4	777.3	814.7	835.7	862.6	886.0	918.7	957.3	1006.4	1045.0
67.5°	536.5	542.4	564.6	597.3	631.2	672.1	700.2	751.6	804.2	867.3	907.0
70°	350.7	355.3	375.2	405.6	437.2	476.9	526.0	584.4	641.7	706.0	756.3
72.5°	222.1	222.1	233.8	251.3	273.5	312.1	361.2	416.1	474.6	541.2	607.8
75°	154.3	156.6	160.1	168.3	176.5	201.0	238.5	280.5	329.6	388.1	453.5
77.5°	139.1	137.9	134.4	132.1	130.9	139.1	156.6	178.8	213.9	264.2	321.4
80°	122.7	121.6	118.1	115.7	111.0	111.0	114.5	120.4	139.1	171.8	213.9
82.5°	98.2	99.4	97.0	95.8	94.7	92.3	92.3	93.5	98.2	112.2	136.8
85°	81.8	81.8	79.5	81.8	83.0	81.8	81.8	81.8	84.2	85.3	97.0
87.5°	56.1	57.3	57.3	58.4	63.1	64.3	66.6	67.8	69.0	71.3	74.8
90°	22.2	26.9	26.9	31.6	36.2	39.7	44.4	46.8	49.1	50.3	51.4
92.5°	15.2	16.4	16.4	17.5	23.4	26.9	28.1	30.4	32.7	33.9	36.2
95°	12.9	12.9	14.0	15.2	16.4	18.7	21.0	22.2	23.4	26.9	28.1
97.5°	11.7	12.9	12.9	14.0	15.2	15.2	15.2	16.4	18.7	19.9	21.0
100°	11.7	11.7	11.7	12.9	12.9	12.9	12.9	14.0	14.0	15.2	15.2
102.5°	12.9	11.7	10.5	11.7	11.7	11.7	12.9	12.9	14.0	14.0	15.2
105°	10.5	11.7	11.7	10.5	11.7	11.7	12.9	12.9	12.9	12.9	12.9
107.5°	9.4	9.4	9.4	10.5	10.5	10.5	10.5	10.5	11.7	11.7	11.7
110°	7.0	8.2	9.4	9.4	10.5	11.7	11.7	11.7	11.7	11.7	11.7



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CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	7.0	8.2	8.2	9.4	9.4	10.5	10.5	10.5	11.7	11.7	11.7
115°	7.0	8.2	9.4	9.4	10.5	10.5	10.5	10.5	10.5	11.7	11.7
117.5°	7.0	8.2	8.2	9.4	10.5	11.7	11.7	11.7	11.7	10.5	11.7
120°	8.2	10.5	10.5	10.5	12.9	12.9	12.9	12.9	12.9	12.9	12.9
122.5°	15.2	14.0	12.9	14.0	14.0	12.9	12.9	12.9	12.9	12.9	12.9
125°	18.7	16.4	15.2	14.0	15.2	14.0	12.9	12.9	12.9	12.9	12.9
127.5°	18.7	18.7	17.5	17.5	16.4	14.0	12.9	12.9	14.0	14.0	14.0
130°	16.4	16.4	16.4	16.4	18.7	18.7	18.7	17.5	16.4	15.2	14.0
132.5°	17.5	17.5	17.5	17.5	18.7	17.5	17.5	18.7	17.5	17.5	16.4
135°	16.4	16.4	15.2	16.4	16.4	15.2	16.4	16.4	17.5	17.5	17.5
137.5°	12.9	14.0	15.2	15.2	16.4	16.4	17.5	17.5	18.7	17.5	17.5
140°	15.2	14.0	15.2	15.2	15.2	15.2	16.4	16.4	16.4	16.4	16.4
142.5°	14.0	14.0	14.0	14.0	15.2	15.2	15.2	15.2	15.2	16.4	16.4
145°	12.9	12.9	12.9	12.9	12.9	14.0	14.0	15.2	15.2	15.2	16.4
147.5°	11.7	10.5	10.5	11.7	11.7	12.9	12.9	12.9	14.0	14.0	15.2
150°	11.7	11.7	10.5	10.5	12.9	12.9	12.9	12.9	14.0	14.0	14.0
152.5°	11.7	11.7	12.9	11.7	11.7	11.7	11.7	12.9	12.9	12.9	12.9
155°	10.5	10.5	10.5	10.5	10.5	9.4	10.5	10.5	11.7	11.7	12.9
157.5°	9.4	9.4	8.2	8.2	9.4	10.5	10.5	10.5	10.5	10.5	10.5
160°	8.2	8.2	7.0	8.2	8.2	8.2	8.2	8.2	9.4	9.4	9.4
162.5°	8.2	7.0	8.2	8.2	8.2	8.2	8.2	8.2	9.4	9.4	9.4
165°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
167.5°	7.0	7.0	5.8	5.8	5.8	7.0	7.0	7.0	7.0	7.0	7.0
170°	7.0	7.0	5.8	5.8	5.8	4.7	4.7	4.7	4.7	4.7	4.7
172.5°	5.8	5.8	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
175°	3.5	3.5	3.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
177.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



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CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8
2.5°	796.0	796.0	794.8	793.7	792.5	791.3	790.2	791.3	791.3	790.2	790.2
5°	807.7	805.4	801.8	798.3	796.0	793.7	791.3	787.8	785.5	784.3	782.0
7.5°	819.4	810.0	801.8	793.7	785.5	779.6	772.6	764.4	760.9	753.9	751.6
10°	821.7	810.0	797.2	785.5	773.8	763.3	752.8	741.1	730.5	720.0	710.7
12.5°	819.4	804.2	790.2	777.3	762.1	748.1	732.9	720.0	707.2	696.6	685.0
15°	817.0	805.4	793.7	783.1	766.8	751.6	737.6	723.5	708.3	695.5	681.5
17.5°	824.1	815.9	810.0	801.8	784.3	769.1	755.1	738.7	724.7	709.5	694.3
20°	826.4	822.9	818.2	814.7	799.5	786.7	771.5	757.4	742.2	725.9	709.5
22.5°	831.1	826.4	821.7	817.0	805.4	794.8	786.7	776.1	760.9	743.4	727.0
25°	833.4	829.9	822.9	815.9	805.4	797.2	787.8	782.0	766.8	752.8	737.6
27.5°	840.4	833.4	826.4	820.5	807.7	799.5	791.3	783.1	772.6	760.9	746.9
30°	846.3	840.4	833.4	825.2	815.9	806.5	797.2	792.5	782.0	771.5	757.4
32.5°	850.9	842.8	836.9	829.9	820.5	811.2	800.7	796.0	789.0	782.0	772.6
35°	854.4	842.8	832.2	826.4	818.2	811.2	805.4	799.5	796.0	790.2	785.5
37.5°	869.6	854.4	842.8	829.9	825.2	820.5	815.9	811.2	808.9	804.2	801.8
40°	900.0	883.7	867.3	852.1	846.3	841.6	835.7	827.6	822.9	821.7	818.2
42.5°	958.5	936.3	911.7	888.3	876.7	869.6	858.0	847.4	843.9	842.8	838.1
45°	1071.9	1033.3	992.4	952.6	933.9	916.4	896.5	876.7	870.8	869.6	868.5
47.5°	1221.5	1170.0	1119.8	1069.5	1034.5	1002.9	973.7	943.3	938.6	940.9	942.1
50°	1330.2	1285.8	1244.9	1207.4	1164.2	1128.0	1096.4	1062.5	1056.7	1056.7	1055.5
52.5°	1392.1	1353.6	1310.3	1265.9	1234.3	1213.3	1192.3	1177.1	1170.0	1170.0	1168.9
55°	1419.0	1391.0	1357.1	1322.0	1292.8	1265.9	1247.2	1232.0	1235.5	1244.9	1256.5
57.5°	1419.0	1396.8	1360.6	1326.7	1316.2	1302.1	1286.9	1278.7	1279.9	1284.6	1295.1
60°	1379.3	1383.9	1371.1	1345.4	1326.7	1312.6	1299.8	1290.4	1298.6	1303.3	1308.0
62.5°	1251.9	1288.1	1315.0	1326.7	1326.7	1320.8	1311.5	1310.3	1315.0	1317.3	1329.0
65°	1095.2	1143.2	1186.4	1215.6	1241.3	1265.9	1284.6	1292.8	1293.9	1301.0	1315.0
67.5°	949.1	986.5	1016.9	1035.6	1077.7	1123.3	1154.8	1179.4	1184.1	1191.1	1198.1
70°	807.7	852.1	876.7	883.7	912.9	944.4	963.2	977.2	985.4	994.7	1001.7
72.5°	667.4	721.2	746.9	756.3	777.3	790.2	794.8	798.3	803.0	806.5	808.9
75°	516.6	571.6	602.0	624.2	651.1	667.4	666.3	661.6	655.7	649.9	647.6
77.5°	376.4	418.5	446.5	474.6	507.3	524.8	526.0	520.1	513.1	501.4	486.3
80°	256.0	286.4	310.9	340.1	364.7	374.0	370.5	367.0	367.0	355.3	339.0
82.5°	164.8	183.5	205.7	230.3	253.6	256.0	256.0	251.3	247.8	240.8	225.6
85°	111.0	121.6	136.8	153.1	168.3	171.8	170.7	169.5	167.1	162.5	150.8
87.5°	79.5	84.2	90.0	98.2	107.5	108.7	108.7	109.9	108.7	108.7	102.9
90°	52.6	54.9	57.3	59.6	63.1	64.3	64.3	65.5	67.8	69.0	69.0
92.5°	37.4	40.9	40.9	42.1	43.2	45.6	45.6	47.9	49.1	49.1	51.4
95°	28.1	30.4	31.6	31.6	35.1	37.4	38.6	40.9	40.9	42.1	40.9
97.5°	22.2	23.4	23.4	24.5	25.7	28.1	29.2	31.6	32.7	35.1	35.1
100°	16.4	17.5	17.5	18.7	18.7	21.0	22.2	22.2	23.4	25.7	25.7
102.5°	16.4	16.4	16.4	16.4	17.5	17.5	15.2	15.2	16.4	16.4	17.5
105°	14.0	14.0	12.9	14.0	15.2	14.0	12.9	12.9	12.9	14.0	15.2
107.5°	11.7	11.7	11.7	12.9	12.9	12.9	11.7	11.7	12.9	12.9	12.9
110°	11.7	12.9	12.9	12.9	14.0	14.0	11.7	11.7	11.7	12.9	12.9



REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	11.7	11.7	11.7	11.7	11.7	10.5	9.4	10.5	10.5	11.7	11.7
115°	11.7	11.7	11.7	11.7	11.7	10.5	9.4	9.4	10.5	10.5	10.5
117.5°	11.7	11.7	11.7	11.7	11.7	10.5	9.4	9.4	9.4	9.4	9.4
120°	12.9	12.9	11.7	11.7	11.7	10.5	9.4	9.4	9.4	10.5	10.5
122.5°	12.9	12.9	12.9	12.9	12.9	12.9	9.4	9.4	10.5	10.5	11.7
125°	12.9	12.9	14.0	14.0	14.0	12.9	10.5	10.5	10.5	11.7	11.7
127.5°	14.0	14.0	14.0	14.0	14.0	14.0	12.9	12.9	12.9	12.9	10.5
130°	14.0	14.0	14.0	14.0	14.0	14.0	11.7	11.7	11.7	11.7	11.7
132.5°	16.4	16.4	14.0	14.0	14.0	14.0	12.9	11.7	11.7	11.7	11.7
135°	17.5	18.7	15.2	16.4	16.4	16.4	15.2	15.2	15.2	14.0	14.0
137.5°	17.5	17.5	16.4	17.5	17.5	17.5	15.2	14.0	14.0	15.2	14.0
140°	17.5	17.5	16.4	16.4	16.4	17.5	16.4	16.4	16.4	15.2	15.2
142.5°	16.4	16.4	14.0	14.0	15.2	16.4	15.2	15.2	15.2	15.2	14.0
145°	16.4	16.4	16.4	16.4	17.5	18.7	16.4	16.4	15.2	17.5	15.2
147.5°	15.2	16.4	16.4	17.5	16.4	16.4	14.0	14.0	15.2	15.2	15.2
150°	15.2	16.4	15.2	15.2	15.2	15.2	14.0	14.0	15.2	15.2	14.0
152.5°	12.9	14.0	15.2	14.0	14.0	14.0	12.9	12.9	14.0	14.0	12.9
155°	12.9	14.0	12.9	11.7	11.7	11.7	11.7	12.9	12.9	12.9	11.7
157.5°	11.7	11.7	11.7	11.7	11.7	12.9	11.7	11.7	11.7	11.7	9.4
160°	9.4	9.4	8.2	8.2	9.4	9.4	9.4	9.4	9.4	9.4	7.0
162.5°	9.4	9.4	7.0	8.2	9.4	9.4	8.2	8.2	8.2	8.2	8.2
165°	7.0	8.2	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
167.5°	7.0	8.2	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	5.8
170°	5.8	5.8	4.7	4.7	4.7	4.7	3.5	3.5	3.5	4.7	4.7
172.5°	4.7	4.7	3.5	3.5	3.5	3.5	3.5	2.3	2.3	4.7	4.7
175°	4.7	4.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
177.5°	4.7	4.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7	4.7
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8
2.5°	789.0	787.8	787.8	787.8	786.7	786.7	787.8	786.7	785.5	785.5	785.5
5°	778.5	775.0	775.0	772.6	770.3	770.3	767.9	767.9	765.6	766.8	767.9
7.5°	745.7	743.4	739.9	736.4	732.9	734.1	732.9	731.7	729.4	729.4	729.4
10°	702.5	700.2	694.3	692.0	687.3	687.3	686.1	686.1	686.1	686.1	688.5
12.5°	674.4	666.3	661.6	655.7	651.1	649.9	648.7	646.4	644.0	645.2	645.2
15°	667.4	656.9	647.6	638.2	632.4	630.0	628.9	625.3	620.7	620.7	619.5
17.5°	677.9	665.1	654.6	641.7	632.4	628.9	625.3	621.8	618.3	617.2	616.0
20°	693.1	679.1	667.4	652.2	640.5	635.9	631.2	627.7	621.8	619.5	619.5
22.5°	708.3	694.3	680.3	665.1	649.9	644.0	639.4	635.9	630.0	630.0	630.0
25°	721.2	707.2	693.1	677.9	662.8	655.7	651.1	646.4	640.5	640.5	638.2
27.5°	734.1	722.4	706.0	692.0	679.1	669.8	662.8	655.7	648.7	645.2	642.9
30°	748.1	734.1	721.2	709.5	696.6	689.6	680.3	673.3	666.3	663.9	661.6
32.5°	767.9	756.3	743.4	731.7	721.2	714.2	707.2	699.0	693.1	689.6	687.3
35°	782.0	773.8	765.6	755.1	746.9	739.9	735.2	729.4	723.5	724.7	723.5
37.5°	799.5	792.5	784.3	777.3	770.3	769.1	769.1	769.1	770.3	776.1	779.6
40°	817.0	811.2	807.7	804.2	800.7	810.0	818.2	824.1	832.2	846.3	862.6
42.5°	835.7	834.6	838.1	841.6	843.9	866.1	887.2	908.2	929.3	956.1	983.0
45°	866.1	879.0	896.5	911.7	926.9	969.0	1013.4	1057.8	1102.2	1143.2	1186.4
47.5°	943.3	973.7	1006.4	1039.1	1071.9	1133.8	1194.6	1244.9	1298.6	1345.4	1392.1
50°	1055.5	1088.2	1117.4	1151.3	1186.4	1256.5	1326.7	1394.5	1462.3	1519.5	1574.5
52.5°	1172.4	1207.4	1243.7	1278.7	1318.5	1387.5	1457.6	1510.2	1566.3	1615.4	1664.5
55°	1275.2	1295.1	1316.2	1339.5	1367.6	1424.9	1479.8	1528.9	1576.8	1628.2	1678.5
57.5°	1324.3	1332.5	1341.9	1361.7	1386.3	1443.6	1499.7	1552.3	1603.7	1664.5	1718.2
60°	1343.0	1355.9	1369.9	1393.3	1419.0	1473.9	1526.5	1579.1	1637.6	1705.4	1755.6
62.5°	1355.9	1379.3	1405.0	1413.2	1427.2	1469.3	1510.2	1537.1	1568.6	1609.5	1645.8
65°	1333.7	1337.2	1338.4	1337.2	1338.4	1351.2	1365.2	1369.9	1375.8	1395.6	1417.8
67.5°	1206.3	1191.1	1177.1	1168.9	1160.7	1152.5	1145.5	1135.0	1122.1	1122.1	1125.6
70°	1005.2	981.9	963.2	955.0	944.4	926.9	911.7	894.2	872.0	858.0	846.3
72.5°	808.9	783.1	764.4	753.9	742.2	722.4	700.2	675.6	652.2	637.0	619.5
75°	644.0	625.3	597.3	572.7	550.5	528.3	499.1	471.1	441.8	420.8	409.1
77.5°	474.6	455.9	429.0	404.4	376.4	348.3	323.8	303.9	281.7	271.2	268.8
80°	316.8	288.7	280.5	266.5	249.0	229.1	210.4	197.5	182.3	175.3	173.0
82.5°	206.9	187.0	181.2	173.0	161.3	150.8	142.6	130.9	118.1	113.4	115.7
85°	137.9	128.6	126.2	121.6	113.4	106.4	100.5	94.7	87.7	86.5	86.5
87.5°	95.8	92.3	94.7	91.2	88.8	83.0	79.5	73.6	66.6	65.5	64.3
90°	67.8	67.8	69.0	69.0	66.6	64.3	63.1	59.6	54.9	52.6	51.4
92.5°	51.4	51.4	53.8	52.6	51.4	51.4	49.1	47.9	44.4	42.1	42.1
95°	40.9	40.9	42.1	42.1	42.1	42.1	40.9	40.9	38.6	37.4	36.2
97.5°	36.2	36.2	37.4	36.2	35.1	35.1	35.1	33.9	32.7	31.6	30.4
100°	26.9	28.1	29.2	29.2	30.4	30.4	31.6	29.2	29.2	29.2	30.4
102.5°	18.7	19.9	21.0	21.0	22.2	22.2	23.4	23.4	22.2	22.2	23.4
105°	15.2	15.2	16.4	16.4	16.4	17.5	17.5	17.5	17.5	18.7	17.5
107.5°	14.0	14.0	15.2	14.0	14.0	15.2	15.2	15.2	14.0	14.0	14.0
110°	14.0	14.0	14.0	12.9	12.9	12.9	12.9	12.9	12.9	12.9	11.7



REPORT NUMBER: P188108
 CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°	
112.5°	12.9	12.9	12.9	11.7	11.7	12.9	11.7	11.7	11.7	11.7	11.7	0°
115°	11.7	12.9	14.0	12.9	12.9	11.7	11.7	11.7	10.5	10.5	10.5	2.5°
117.5°	10.5	11.7	12.9	11.7	11.7	12.9	11.7	11.7	10.5	10.5	10.5	5°
120°	10.5	11.7	11.7	10.5	11.7	11.7	10.5	11.7	10.5	10.5	9.4	7.5°
122.5°	11.7	10.5	11.7	10.5	10.5	10.5	8.2	8.2	8.2	8.2	8.2	10°
125°	10.5	11.7	12.9	11.7	11.7	11.7	10.5	10.5	9.4	9.4	8.2	12.5°
127.5°	11.7	11.7	12.9	11.7	11.7	11.7	9.4	9.4	8.2	8.2	8.2	15°
130°	11.7	11.7	11.7	10.5	9.4	10.5	10.5	10.5	9.4	9.4	8.2	17.5°
132.5°	12.9	14.0	14.0	12.9	12.9	12.9	11.7	10.5	10.5	9.4	9.4	20°
135°	11.7	11.7	14.0	12.9	14.0	14.0	12.9	11.7	10.5	10.5	9.4	22.5°
137.5°	14.0	14.0	12.9	14.0	14.0	14.0	11.7	11.7	10.5	11.7	11.7	25°
140°	14.0	14.0	14.0	14.0	14.0	14.0	11.7	12.9	11.7	12.9	12.9	27.5°
142.5°	14.0	14.0	12.9	14.0	12.9	12.9	12.9	11.7	11.7	12.9	15.2	30°
145°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	14.0	32.5°
147.5°	15.2	15.2	14.0	12.9	12.9	14.0	12.9	14.0	14.0	15.2	15.2	35°
150°	14.0	14.0	14.0	12.9	12.9	12.9	11.7	11.7	14.0	14.0	14.0	37.5°
152.5°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	14.0	12.9	12.9	40°
155°	11.7	11.7	11.7	10.5	10.5	10.5	10.5	10.5	10.5	11.7	11.7	42.5°
157.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	10.5	45°
160°	7.0	7.0	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	47.5°
162.5°	8.2	8.2	8.2	8.2	8.2	8.2	7.0	7.0	7.0	7.0	7.0	50°
165°	7.0	8.2	8.2	8.2	8.2	8.2	7.0	8.2	7.0	7.0	8.2	52.5°
167.5°	5.8	7.0	7.0	7.0	7.0	5.8	5.8	5.8	5.8	5.8	5.8	55°
170°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	57.5°
172.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.8	60°
175°	3.5	2.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7	62.5°
177.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.8	65°
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	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°
												110°

NUMBER: P188108
 NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):											CANDELA DISTRIBUTION	
82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°	112.5°	82.5°
787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	112.5°	11.7
786.7	786.7	785.5	784.3	785.5	786.7	786.7	785.5	785.5	785.5	786.7	115°	9.4
765.6	766.8	766.8	766.8	766.8	766.8	765.6	767.9	766.8	765.6	767.9	117.5°	8.2
728.2	727.0	731.7	731.7	731.7	727.0	728.2	729.4	729.4	729.4	731.7	120°	8.2
688.5	686.1	687.3	689.6	687.3	686.1	688.5	688.5	686.1	686.1	686.1	122.5°	7.0
646.4	646.4	647.6	647.6	647.6	646.4	646.4	645.2	645.2	644.0	646.4	125°	7.0
620.7	619.5	619.5	619.5	619.5	619.5	620.7	619.5	620.7	620.7	625.3	127.5°	7.0
613.7	612.5	611.3	609.0	611.3	612.5	613.7	616.0	617.2	618.3	621.8	130°	7.0
616.0	616.0	616.0	613.7	616.0	616.0	616.0	619.5	619.5	621.8	627.7	132.5°	8.2
626.5	626.5	626.5	624.2	626.5	626.5	626.5	630.0	630.0	630.0	635.9	135°	9.4
637.0	635.9	634.7	631.2	634.7	635.9	637.0	638.2	640.5	640.5	646.4	137.5°	12.9
641.7	639.4	639.4	638.2	639.4	639.4	641.7	642.9	645.2	648.7	655.7	140°	14.0
659.2	656.9	655.7	653.4	655.7	656.9	659.2	661.6	663.9	666.3	673.3	142.5°	16.4
683.8	680.3	679.1	675.6	679.1	680.3	683.8	687.3	689.6	693.1	699.0	145°	14.0
724.7	723.5	722.4	721.2	722.4	723.5	724.7	723.5	724.7	723.5	729.4	147.5°	15.2
784.3	786.7	786.7	786.7	786.7	786.7	784.3	779.6	776.1	770.3	769.1	150°	14.0
876.7	890.7	891.9	895.4	891.9	890.7	876.7	862.6	846.3	832.2	824.1	152.5°	12.9
1007.6	1033.3	1040.3	1046.1	1040.3	1033.3	1007.6	983.0	956.1	929.3	908.2	155°	11.7
1228.5	1271.7	1284.6	1298.6	1284.6	1271.7	1228.5	1186.4	1143.2	1102.2	1057.8	157.5°	10.5
1440.1	1488.0	1504.3	1519.5	1504.3	1488.0	1440.1	1392.1	1345.4	1298.6	1244.9	160°	9.4
1630.6	1686.7	1713.6	1740.5	1713.6	1686.7	1630.6	1574.5	1519.5	1462.3	1394.5	162.5°	7.0
1712.4	1758.0	1786.0	1815.3	1786.0	1758.0	1712.4	1664.5	1615.4	1566.3	1510.2	165°	8.2
1728.8	1774.4	1812.9	1848.0	1812.9	1774.4	1728.8	1678.5	1628.2	1576.8	1528.9	167.5°	5.8
1774.4	1830.5	1881.9	1929.8	1881.9	1830.5	1774.4	1718.2	1664.5	1603.7	1552.3	170°	4.7
1804.7	1853.8	1895.9	1935.7	1895.9	1853.8	1804.7	1755.6	1705.4	1637.6	1579.1	172.5°	5.8
1677.3	1713.6	1751.0	1787.2	1751.0	1713.6	1677.3	1645.8	1609.5	1568.6	1537.1	175°	5.8
1437.7	1459.9	1488.0	1518.4	1488.0	1459.9	1437.7	1417.8	1395.6	1375.8	1369.9	177.5°	5.8
1126.8	1128.0	1143.2	1158.4	1143.2	1128.0	1126.8	1125.6	1122.1	1120.9	1135.0	180°	2.3
835.7	825.2	828.7	833.4	828.7	825.2	835.7	846.3	858.0	872.0	894.2		
598.5	579.8	576.3	573.9	576.3	579.8	598.5	619.5	637.0	652.2	675.6		
389.2	371.7	367.0	361.2	367.0	371.7	389.2	409.1	420.8	441.8	471.1		
261.8	259.5	261.8	265.3	261.8	259.5	261.8	268.8	271.2	281.7	303.9		
167.1	163.6	166.0	168.3	166.0	163.6	167.1	173.0	175.3	182.3	197.5		
115.7	115.7	119.2	121.6	119.2	115.7	115.7	115.7	113.4	118.1	130.9		
87.7	86.5	90.0	92.3	90.0	86.5	87.7	86.5	86.5	87.7	94.7		
63.1	62.0	64.3	64.3	64.3	62.0	63.1	64.3	65.5	66.6	73.6		
46.8	44.4	45.6	44.4	45.6	44.4	46.8	51.4	52.6	54.9	59.6		
39.7	37.4	37.4	37.4	37.4	37.4	39.7	42.1	42.1	44.4	47.9		
33.9	31.6	31.6	30.4	31.6	31.6	33.9	36.2	37.4	38.6	40.9		
28.1	26.9	26.9	26.9	26.9	26.9	28.1	30.4	31.6	32.7	33.9		
29.2	28.1	28.1	28.1	28.1	28.1	29.2	30.4	29.2	29.2	29.2		
23.4	23.4	23.4	21.0	23.4	23.4	23.4	23.4	22.2	22.2	23.4		
16.4	15.2	16.4	16.4	16.4	15.2	16.4	17.5	18.7	17.5	17.5		
11.7	11.7	11.7	10.5	11.7	11.7	11.7	14.0	14.0	14.0	15.2		
11.7	10.5	10.5	10.5	10.5	10.5	11.7	11.7	12.9	12.9	12.9		

'188108
 QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

REPORT NUMBER: P188108
 CATALOG NUMBER: QDCAST1

TION (continued):

CANDELA DISTRIBUTION (con

85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°		110°	112.5°
10.5	10.5	9.4	10.5	10.5	11.7	11.7	11.7	11.7	11.7	0°	787.8	787.8
9.4	9.4	9.4	9.4	9.4	9.4	10.5	10.5	10.5	11.7	2.5°	787.8	786.7
8.2	8.2	8.2	8.2	8.2	8.2	10.5	10.5	10.5	11.7	5°	767.9	770.3
8.2	8.2	8.2	8.2	8.2	8.2	9.4	10.5	10.5	11.7	7.5°	732.9	734.1
7.0	7.0	7.0	7.0	7.0	7.0	8.2	8.2	8.2	8.2	10°	686.1	687.3
7.0	7.0	7.0	7.0	7.0	7.0	8.2	9.4	9.4	10.5	12.5°	648.7	649.9
7.0	7.0	7.0	7.0	7.0	7.0	8.2	8.2	8.2	9.4	15°	628.9	630.0
7.0	7.0	7.0	7.0	7.0	7.0	8.2	9.4	9.4	10.5	17.5°	625.3	628.9
7.0	7.0	7.0	7.0	7.0	8.2	9.4	9.4	10.5	10.5	20°	631.2	635.9
9.4	9.4	8.2	9.4	9.4	9.4	9.4	10.5	10.5	11.7	22.5°	639.4	644.0
12.9	14.0	14.0	14.0	12.9	12.9	11.7	11.7	10.5	11.7	25°	651.1	655.7
15.2	16.4	17.5	16.4	15.2	14.0	12.9	12.9	11.7	12.9	27.5°	662.8	669.8
16.4	16.4	16.4	16.4	16.4	16.4	15.2	12.9	11.7	11.7	30°	680.3	689.6
14.0	14.0	14.0	14.0	14.0	14.0	14.0	15.2	15.2	15.2	32.5°	707.2	714.2
15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	14.0	14.0	35°	735.2	739.9
14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	11.7	37.5°	769.1	769.1
12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	14.0	12.9	40°	818.2	810.0
11.7	12.9	12.9	12.9	11.7	11.7	11.7	11.7	10.5	10.5	42.5°	887.2	866.1
10.5	11.7	11.7	11.7	10.5	10.5	10.5	9.4	9.4	9.4	45°	1013.4	969.0
9.4	9.4	8.2	9.4	9.4	9.4	8.2	8.2	8.2	8.2	47.5°	1194.6	1133.8
7.0	9.4	9.4	9.4	7.0	7.0	7.0	7.0	7.0	7.0	50°	1326.7	1256.5
9.4	8.2	8.2	8.2	9.4	8.2	8.2	7.0	7.0	8.2	52.5°	1457.6	1387.5
5.8	7.0	7.0	7.0	5.8	5.8	5.8	5.8	5.8	5.8	55°	1479.8	1424.9
4.7	5.8	5.8	5.8	4.7	4.7	4.7	4.7	4.7	4.7	57.5°	1499.7	1443.6
5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.7	4.7	4.7	60°	1526.5	1473.9
5.8	5.8	5.8	5.8	5.8	5.8	4.7	3.5	3.5	3.5	62.5°	1510.2	1469.3
5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.7	4.7	4.7	65°	1365.2	1351.2
2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	67.5°	1145.5	1152.5
										70°	911.7	926.9
										72.5°	700.2	722.4
										75°	499.1	527.2
										77.5°	323.8	348.3
										80°	210.4	229.1
										82.5°	142.6	150.8
										85°	100.5	106.4
										87.5°	79.5	83.0
										90°	63.1	64.3
										92.5°	49.1	51.4
										95°	40.9	42.1
										97.5°	35.1	35.1
										100°	31.6	30.4
										102.5°	23.4	22.2
										105°	17.5	17.5
										107.5°	15.2	15.2
										110°	12.9	12.9

REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANEL)

B (2PANELS 0°TILT; 2PANELS 15° TILT)

tinued):									CANDELA DISTRIBUTION (continued):			
115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°	112.5°	110°	112.5°	115°
787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	112.5°	11.7	12.9	11.7
786.7	787.8	787.8	787.8	789.0	790.2	790.2	791.3	791.3	115°	11.7	11.7	12.9
770.3	772.6	775.0	775.0	778.5	782.0	784.3	785.5	787.8	117.5°	11.7	12.9	11.7
732.9	736.4	739.9	743.4	745.7	751.6	753.9	760.9	764.4	120°	10.5	11.7	11.7
687.3	692.0	694.3	700.2	702.5	710.7	720.0	730.5	741.1	122.5°	8.2	10.5	10.5
651.1	655.7	661.6	666.3	674.4	685.0	696.6	707.2	720.0	125°	10.5	11.7	11.7
632.4	638.2	647.6	656.9	667.4	681.5	695.5	708.3	723.5	127.5°	9.4	11.7	11.7
632.4	641.7	654.6	665.1	677.9	694.3	709.5	724.7	738.7	130°	10.5	10.5	9.4
640.5	652.2	667.4	679.1	693.1	709.5	725.9	742.2	757.4	132.5°	11.7	12.9	12.9
649.9	665.1	680.3	694.3	708.3	727.0	743.4	760.9	776.1	135°	12.9	14.0	14.0
662.8	677.9	693.1	707.2	721.2	737.6	752.8	766.8	782.0	137.5°	11.7	14.0	14.0
679.1	692.0	706.0	722.4	734.1	746.9	760.9	772.6	783.1	140°	11.7	14.0	14.0
696.6	709.5	721.2	734.1	748.1	757.4	771.5	782.0	792.5	142.5°	12.9	12.9	12.9
721.2	731.7	743.4	756.3	767.9	772.6	782.0	789.0	796.0	145°	15.2	15.2	15.2
746.9	755.1	765.6	773.8	782.0	785.5	790.2	796.0	799.5	147.5°	12.9	14.0	12.9
770.3	777.3	784.3	792.5	799.5	801.8	804.2	808.9	811.2	150°	11.7	12.9	12.9
800.7	804.2	807.7	811.2	817.0	818.2	821.7	822.9	827.6	152.5°	12.9	12.9	12.9
843.9	841.6	838.1	834.6	835.7	838.1	842.8	843.9	847.4	155°	10.5	10.5	10.5
926.9	911.7	896.5	879.0	866.1	868.5	869.6	870.8	876.7	157.5°	9.4	9.4	9.4
1071.9	1039.1	1006.4	973.7	943.3	942.1	940.9	938.6	943.3	160°	8.2	8.2	8.2
1186.4	1151.3	1117.4	1088.2	1055.5	1055.5	1056.7	1056.7	1062.5	162.5°	7.0	8.2	8.2
1318.5	1278.7	1243.7	1207.4	1172.4	1168.9	1170.0	1170.0	1177.1	165°	7.0	8.2	8.2
1367.6	1339.5	1316.2	1295.1	1275.2	1256.5	1244.9	1235.5	1232.0	167.5°	5.8	5.8	7.0
1386.3	1361.7	1341.9	1332.5	1324.3	1295.1	1284.6	1279.9	1278.7	170°	4.7	4.7	4.7
1419.0	1393.3	1369.9	1355.9	1343.0	1308.0	1302.1	1298.6	1290.4	172.5°	4.7	4.7	4.7
1427.2	1413.2	1405.0	1379.3	1355.9	1329.0	1317.3	1315.0	1310.3	175°	3.5	3.5	3.5
1338.4	1337.2	1338.4	1337.2	1333.7	1315.0	1301.0	1293.9	1292.8	177.5°	4.7	4.7	4.7
1160.7	1168.9	1177.1	1191.1	1206.3	1198.1	1191.1	1184.1	1179.4	180°	2.3	2.3	2.3
944.4	955.0	963.2	981.9	1005.2	1001.7	994.7	984.2	977.2				
742.2	753.9	764.4	783.1	808.9	808.9	806.5	803.0	798.3				
550.5	572.7	597.3	625.3	644.0	647.6	649.9	655.7	661.6				
376.4	404.4	429.0	455.9	474.6	486.3	501.4	513.1	520.1				
249.0	266.5	280.5	288.7	316.8	339.0	355.3	367.0	367.0				
161.3	173.0	181.2	187.0	206.9	225.6	240.8	247.8	251.3				
113.4	121.6	126.2	128.6	137.9	150.8	162.5	167.1	169.5				
88.8	91.2	94.7	92.3	95.8	102.9	108.7	108.7	109.9				
66.6	69.0	69.0	67.8	67.8	69.0	69.0	67.8	65.5				
51.4	52.6	53.8	51.4	51.4	51.4	49.1	49.1	47.9				
42.1	42.1	42.1	40.9	40.9	40.9	42.1	40.9	40.9				
35.1	36.2	37.4	36.2	36.2	35.1	35.1	32.7	31.6				
30.4	29.2	29.2	28.1	26.9	25.7	25.7	23.4	22.2				
22.2	21.0	21.0	19.9	18.7	17.5	16.4	16.4	15.2				
16.4	16.4	16.4	15.2	15.2	15.2	14.0	12.9	12.9				
14.0	14.0	15.2	14.0	14.0	12.9	12.9	12.9	11.7				
12.9	12.9	14.0	14.0	14.0	12.9	12.9	11.7	11.7				



REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2

S 0°TILT; 2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°		137.5°	140°	142.5°	145°
11.7	12.9	12.9	12.9	11.7	11.7	10.5	10.5	0°	787.8	787.8	787.8	787.8
12.9	14.0	12.9	11.7	10.5	10.5	10.5	9.4	2.5°	790.2	791.3	792.5	793.7
11.7	12.9	11.7	10.5	9.4	9.4	9.4	9.4	5°	791.3	793.7	796.0	798.3
10.5	11.7	11.7	10.5	10.5	10.5	9.4	9.4	7.5°	772.6	779.6	785.5	793.7
10.5	11.7	10.5	11.7	11.7	10.5	10.5	9.4	10°	752.8	763.3	773.8	785.5
11.7	12.9	11.7	10.5	11.7	11.7	10.5	10.5	12.5°	732.9	748.1	762.1	777.3
11.7	12.9	11.7	11.7	10.5	12.9	12.9	12.9	15°	737.6	751.6	766.8	783.1
10.5	11.7	11.7	11.7	11.7	11.7	11.7	11.7	17.5°	755.1	769.1	784.3	801.8
12.9	14.0	14.0	12.9	11.7	11.7	11.7	11.7	20°	771.5	785.5	799.5	814.7
12.9	14.0	11.7	11.7	14.0	14.0	15.2	15.2	22.5°	786.7	794.8	805.4	817.0
14.0	12.9	14.0	14.0	14.0	15.2	14.0	14.0	25°	787.8	797.2	805.4	815.9
14.0	14.0	14.0	14.0	15.2	15.2	16.4	16.4	27.5°	791.3	799.5	807.7	820.5
14.0	12.9	14.0	14.0	14.0	15.2	15.2	15.2	30°	797.2	806.5	815.9	825.2
15.2	15.2	15.2	15.2	15.2	17.5	15.2	16.4	32.5°	800.7	811.2	820.5	829.9
12.9	14.0	15.2	15.2	15.2	15.2	15.2	14.0	35°	805.4	811.2	818.2	826.4
12.9	14.0	14.0	14.0	14.0	15.2	15.2	14.0	37.5°	815.9	820.5	825.2	829.9
12.9	12.9	12.9	12.9	12.9	14.0	14.0	12.9	40°	835.7	841.6	846.3	852.1
10.5	11.7	11.7	11.7	11.7	12.9	12.9	12.9	42.5°	858.0	869.6	876.7	888.3
9.4	9.4	9.4	9.4	9.4	11.7	11.7	11.7	45°	896.5	916.4	933.9	952.6
8.2	8.2	7.0	7.0	7.0	9.4	9.4	9.4	47.5°	973.7	1002.9	1034.5	1069.5
8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	50°	1096.4	1128.0	1164.2	1207.4
8.2	8.2	8.2	7.0	7.0	7.0	7.0	7.0	52.5°	1192.3	1213.3	1234.3	1264.7
7.0	7.0	7.0	5.8	5.8	7.0	7.0	7.0	55°	1246.0	1265.9	1292.8	1322.0
4.7	4.7	4.7	4.7	4.7	4.7	3.5	3.5	57.5°	1286.9	1302.1	1316.2	1326.7
4.7	4.7	4.7	4.7	4.7	4.7	2.3	2.3	60°	1299.8	1312.6	1326.7	1345.4
3.5	3.5	2.3	3.5	3.5	3.5	3.5	3.5	62.5°	1311.5	1319.7	1326.7	1326.7
4.7	4.7	4.7	4.7	4.7	4.7	3.5	3.5	65°	1284.6	1265.9	1241.3	1215.6
2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	67.5°	1154.8	1123.3	1077.7	1035.6
								70°	963.2	944.4	912.9	883.7
								72.5°	794.8	790.2	777.3	756.3
								75°	666.3	667.4	651.1	624.2
								77.5°	526.0	524.8	507.3	474.6
								80°	370.5	374.0	364.7	340.1
								82.5°	256.0	256.0	253.6	230.3
								85°	170.7	171.8	168.3	153.1
								87.5°	108.7	108.7	107.5	98.2
								90°	64.3	64.3	63.1	59.6
								92.5°	45.6	45.6	43.2	42.1
								95°	38.6	37.4	35.1	31.6
								97.5°	29.2	28.1	25.7	24.5
								100°	22.2	21.0	18.7	18.7
								102.5°	15.2	17.5	17.5	16.4
								105°	12.9	14.0	15.2	14.0
								107.5°	11.7	12.9	12.9	12.9
								110°	11.7	14.0	14.0	12.9



REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15°TILT)

2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

147.5°	150°	152.5°	155°	157.5°	160°	162.5°		137.5°	140°	142.5°	145°	147.5°
787.8	787.8	787.8	787.8	787.8	787.8	787.8	112.5°	9.4	10.5	11.7	11.7	11.7
794.8	796.0	796.0	797.2	798.3	799.5	798.3	115°	9.4	10.5	11.7	11.7	11.7
801.8	805.4	807.7	810.0	813.5	814.7	818.2	117.5°	9.4	10.5	11.7	11.7	11.7
801.8	810.0	819.4	827.6	834.6	841.6	848.6	120°	9.4	10.5	11.7	11.7	11.7
797.2	810.0	821.7	834.6	847.4	856.8	869.6	122.5°	9.4	12.9	12.9	12.9	12.9
790.2	804.2	819.4	832.2	843.9	859.1	870.8	125°	10.5	12.9	14.0	14.0	14.0
793.7	805.4	817.0	828.7	839.3	849.8	856.8	127.5°	12.9	14.0	14.0	14.0	14.0
810.0	815.9	824.1	828.7	834.6	840.4	846.3	130°	11.7	14.0	14.0	14.0	14.0
818.2	822.9	826.4	829.9	832.2	835.7	836.9	132.5°	12.9	14.0	14.0	14.0	14.0
821.7	826.4	831.1	833.4	834.6	840.4	838.1	135°	15.2	16.4	16.4	16.4	15.2
822.9	829.9	833.4	838.1	840.4	840.4	836.9	137.5°	15.2	17.5	17.5	17.5	16.4
826.4	833.4	840.4	845.1	848.6	849.8	847.4	140°	16.4	17.5	16.4	16.4	16.4
833.4	840.4	846.3	852.1	856.8	860.3	860.3	142.5°	15.2	16.4	15.2	14.0	14.0
836.9	842.8	850.9	856.8	863.8	870.8	876.7	145°	16.4	18.7	17.5	16.4	16.4
832.2	842.8	854.4	865.0	872.0	883.7	893.0	147.5°	14.0	16.4	16.4	17.5	16.4
842.8	854.4	869.6	883.7	897.7	910.6	925.7	150°	14.0	15.2	15.2	15.2	15.2
867.3	883.7	900.0	917.6	938.6	964.3	991.2	152.5°	12.9	14.0	14.0	14.0	15.2
911.7	936.3	958.5	985.4	1020.4	1066.0	1111.6	155°	11.7	11.7	11.7	11.7	12.9
992.4	1033.3	1071.9	1116.3	1170.0	1234.3	1293.9	157.5°	11.7	12.9	11.7	11.7	11.7
1119.8	1170.0	1221.5	1277.6	1327.8	1382.8	1433.0	160°	9.4	9.4	9.4	8.2	8.2
1244.9	1285.8	1330.2	1368.8	1405.0	1442.4	1476.3	162.5°	8.2	9.4	9.4	8.2	7.0
1310.3	1353.6	1392.1	1419.0	1441.2	1465.8	1490.3	165°	7.0	7.0	7.0	7.0	7.0
1357.1	1391.0	1419.0	1443.6	1451.7	1454.1	1449.4	167.5°	7.0	7.0	7.0	7.0	7.0
1360.6	1396.8	1419.0	1431.9	1417.8	1396.8	1373.4	170°	3.5	4.7	4.7	4.7	4.7
1371.1	1383.9	1379.3	1361.7	1320.8	1275.2	1233.2	172.5°	3.5	3.5	3.5	3.5	3.5
1315.0	1288.1	1251.9	1207.4	1163.0	1112.8	1074.2	175°	3.5	3.5	3.5	3.5	3.5
1186.4	1143.2	1095.2	1045.0	1006.4	957.3	919.9	177.5°	3.5	3.5	3.5	3.5	3.5
1016.9	986.5	949.1	907.0	867.3	804.2	751.6	180°	2.3	2.3	2.3	2.3	2.3
876.7	852.1	807.7	756.3	706.0	641.7	584.4						
746.9	721.2	667.4	607.8	541.2	474.6	416.1						
602.0	571.6	516.6	453.5	388.1	329.6	280.5						
446.5	418.5	376.4	321.4	264.2	212.7	178.8						
310.9	286.4	256.0	213.9	171.8	139.1	120.4						
205.7	183.5	164.8	137.9	112.2	98.2	93.5						
136.8	121.6	111.0	97.0	85.3	84.2	81.8						
90.0	84.2	79.5	74.8	71.3	69.0	67.8						
57.3	54.9	52.6	51.4	50.3	49.1	46.8						
40.9	40.9	37.4	36.2	33.9	32.7	30.4						
31.6	30.4	28.1	28.1	26.9	23.4	22.2						
23.4	23.4	22.2	21.0	19.9	18.7	16.4						
17.5	17.5	16.4	15.2	15.2	14.0	14.0						
16.4	16.4	16.4	15.2	14.0	14.0	12.9						
12.9	14.0	14.0	12.9	12.9	12.9	12.9						
11.7	11.7	11.7	11.7	11.7	11.7	10.5						
12.9	12.9	11.7	11.7	11.7	11.7	11.7						



REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

5° TILT)

CANDELA DISTRIBUTION (continued):

150°	152.5°	155°	157.5°	160°	162.5°		165°	167.5°	170°	172.5°	175°	177.5°
11.7	11.7	11.7	11.7	11.7	10.5	0°	787.8	787.8	787.8	787.8	787.8	787.8
11.7	11.7	11.7	11.7	10.5	10.5	2.5°	799.5	799.5	799.5	799.5	799.5	800.7
11.7	11.7	11.7	10.5	11.7	11.7	5°	819.4	821.7	821.7	824.1	824.1	826.4
12.9	12.9	12.9	12.9	12.9	12.9	7.5°	854.4	858.0	862.6	866.1	868.5	870.8
12.9	12.9	12.9	12.9	12.9	12.9	10°	880.2	888.3	896.5	901.2	909.4	915.2
12.9	12.9	12.9	12.9	12.9	12.9	12.5°	883.7	891.9	900.0	903.5	908.2	911.7
14.0	14.0	14.0	14.0	14.0	12.9	15°	866.1	875.5	886.0	893.0	900.0	901.2
14.0	14.0	14.0	15.2	16.4	17.5	17.5°	852.1	861.5	870.8	873.1	879.0	881.3
16.4	16.4	16.4	17.5	17.5	18.7	20°	839.3	845.1	850.9	855.6	859.1	865.0
18.7	17.5	17.5	17.5	17.5	16.4	22.5°	834.6	836.9	838.1	842.8	847.4	852.1
17.5	17.5	17.5	17.5	18.7	17.5	25°	835.7	839.3	840.4	841.6	842.8	845.1
17.5	17.5	16.4	16.4	16.4	16.4	27.5°	845.1	849.8	852.1	850.9	850.9	849.8
16.4	16.4	16.4	16.4	15.2	15.2	30°	859.1	862.6	863.8	866.1	865.0	863.8
16.4	16.4	16.4	15.2	15.2	15.2	32.5°	877.8	882.5	884.8	884.8	886.0	889.5
16.4	15.2	15.2	14.0	14.0	12.9	35°	898.9	907.0	912.9	914.1	916.4	925.7
16.4	15.2	14.0	14.0	14.0	12.9	37.5°	938.6	949.1	956.1	959.6	970.2	978.3
14.0	12.9	12.9	12.9	12.9	12.9	40°	1018.1	1039.1	1048.5	1064.8	1082.4	1088.2
14.0	12.9	12.9	11.7	11.7	10.5	42.5°	1154.8	1192.3	1220.3	1258.9	1292.8	1312.6
11.7	11.7	10.5	10.5	10.5	10.5	45°	1362.9	1402.6	1456.4	1493.8	1520.7	1533.6
9.4	9.4	9.4	9.4	9.4	8.2	47.5°	1482.1	1519.5	1567.5	1604.9	1621.2	1639.9
9.4	9.4	9.4	9.4	9.4	8.2	50°	1504.3	1552.3	1595.5	1629.4	1634.1	1638.8
8.2	7.0	7.0	7.0	7.0	7.0	52.5°	1503.2	1546.4	1565.1	1581.5	1574.5	1568.6
8.2	7.0	7.0	7.0	7.0	7.0	55°	1455.2	1481.0	1499.7	1495.0	1486.8	1482.1
5.8	5.8	4.7	4.7	4.7	4.7	57.5°	1380.4	1387.5	1398.0	1376.9	1359.4	1358.2
4.7	4.7	4.7	4.7	4.7	4.7	60°	1218.0	1218.0	1219.1	1200.4	1179.4	1170.0
4.7	4.7	4.7	4.7	4.7	4.7	62.5°	1052.0	1045.0	1035.6	1020.4	994.7	983.0
4.7	4.7	3.5	3.5	3.5	3.5	65°	886.0	862.6	835.7	814.7	777.3	757.4
2.3	2.3	2.3	2.3	2.3	2.3	67.5°	700.2	672.1	631.2	597.3	564.6	542.4
						70°	526.0	476.9	437.2	405.6	375.2	355.3
						72.5°	361.2	313.3	273.5	251.3	233.8	222.1
						75°	238.5	201.0	176.5	168.3	160.1	156.6
						77.5°	156.6	139.1	130.9	132.1	134.4	137.9
						80°	114.5	111.0	111.0	115.7	118.1	121.6
						82.5°	92.3	92.3	94.7	95.8	97.0	99.4
						85°	81.8	81.8	83.0	81.8	79.5	81.8
						87.5°	66.6	64.3	63.1	58.4	57.3	57.3
						90°	44.4	39.7	36.2	31.6	26.9	26.9
						92.5°	28.1	26.9	23.4	17.5	16.4	16.4
						95°	21.0	18.7	16.4	15.2	14.0	12.9
						97.5°	15.2	15.2	15.2	14.0	12.9	12.9
						100°	12.9	12.9	12.9	12.9	11.7	11.7
						102.5°	12.9	11.7	11.7	11.7	10.5	11.7
						105°	12.9	11.7	11.7	10.5	11.7	11.7
						107.5°	10.5	10.5	10.5	10.5	9.4	9.4
						110°	11.7	11.7	10.5	9.4	9.4	8.2



REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

180°	182.5°	185°	187.5°	190°		165°	167.5°	170°	172.5°	175°	177.5°	180°
787.8	787.8	787.8	787.8	787.8	112.5°	10.5	10.5	9.4	9.4	8.2	8.2	7.0
800.7	800.7	799.5	799.5	799.5	115°	10.5	10.5	10.5	9.4	9.4	8.2	7.0
826.4	826.4	824.1	824.1	821.7	117.5°	11.7	11.7	10.5	9.4	8.2	8.2	7.0
872.0	870.8	868.5	866.1	862.6	120°	12.9	12.9	12.9	10.5	10.5	10.5	8.2
916.4	915.2	909.4	901.2	896.5	122.5°	12.9	12.9	14.0	14.0	12.9	14.0	15.2
912.9	911.7	908.2	903.5	900.0	125°	12.9	14.0	15.2	14.0	15.2	16.4	18.7
900.0	901.2	900.0	893.0	886.0	127.5°	12.9	14.0	16.4	17.5	17.5	18.7	18.7
884.8	881.3	879.0	874.3	870.8	130°	18.7	18.7	18.7	16.4	16.4	16.4	16.4
866.1	865.0	859.1	855.6	850.9	132.5°	17.5	17.5	18.7	17.5	17.5	17.5	17.5
854.4	852.1	847.4	842.8	838.1	135°	16.4	15.2	16.4	16.4	15.2	16.4	16.4
847.4	845.1	842.8	841.6	840.4	137.5°	17.5	16.4	16.4	15.2	15.2	14.0	12.9
850.9	849.8	850.9	850.9	852.1	140°	16.4	15.2	15.2	15.2	15.2	14.0	15.2
863.8	863.8	865.0	866.1	863.8	142.5°	15.2	15.2	15.2	14.0	14.0	14.0	14.0
891.9	889.5	886.0	884.8	884.8	145°	14.0	14.0	12.9	12.9	12.9	12.9	12.9
929.3	925.7	916.4	914.1	912.9	147.5°	12.9	12.9	11.7	11.7	10.5	10.5	11.7
983.0	978.3	970.2	959.6	956.1	150°	12.9	12.9	12.9	10.5	10.5	11.7	11.7
1092.9	1088.2	1082.4	1064.8	1048.5	152.5°	11.7	11.7	11.7	11.7	12.9	11.7	11.7
1322.0	1311.5	1292.8	1258.9	1220.3	155°	10.5	9.4	10.5	10.5	10.5	10.5	10.5
1538.2	1533.6	1519.5	1493.8	1456.4	157.5°	10.5	10.5	9.4	8.2	8.2	9.4	9.4
1643.4	1639.9	1621.2	1604.9	1567.5	160°	8.2	8.2	8.2	8.2	7.0	8.2	8.2
1637.6	1636.4	1634.1	1629.4	1595.5	162.5°	8.2	8.2	8.2	8.2	8.2	7.0	8.2
1565.1	1568.6	1574.5	1581.5	1565.1	165°	7.0	7.0	7.0	7.0	7.0	7.0	7.0
1478.6	1482.1	1489.1	1495.0	1499.7	167.5°	7.0	7.0	5.8	5.8	5.8	7.0	7.0
1355.9	1358.2	1359.4	1376.9	1398.0	170°	4.7	4.7	5.8	5.8	5.8	7.0	7.0
1161.9	1170.0	1179.4	1200.4	1219.1	172.5°	4.7	4.7	4.7	4.7	4.7	5.8	5.8
979.5	984.2	994.7	1020.4	1035.6	175°	4.7	4.7	4.7	4.7	3.5	3.5	3.5
751.6	757.4	777.3	814.7	835.7	177.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
536.5	542.4	564.6	597.3	631.2	180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3
350.7	355.3	375.2	405.6	437.2								
222.1	222.1	233.8	251.3	273.5								
154.3	156.6	160.1	168.3	176.5								
139.1	137.9	134.4	132.1	130.9								
122.7	121.6	118.1	115.7	111.0								
98.2	99.4	97.0	95.8	94.7								
81.8	81.8	79.5	81.8	83.0								
56.1	57.3	57.3	58.4	63.1								
22.2	26.9	26.9	31.6	36.2								
15.2	16.4	16.4	17.5	23.4								
12.9	12.9	14.0	15.2	16.4								
11.7	12.9	12.9	14.0	15.2								
11.7	11.7	11.7	12.9	12.9								
12.9	11.7	10.5	11.7	11.7								
10.5	11.7	11.7	10.5	11.7								
9.4	9.4	9.4	10.5	10.5								
7.0	8.2	9.4	9.4	10.5								



REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

182.5°	185°	187.5°	190°		192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°
8.2	8.2	9.4	9.4	0°	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8
8.2	9.4	9.4	10.5	2.5°	799.5	799.5	798.3	799.5	798.3	797.2	796.0	796.0
8.2	8.2	9.4	10.5	5°	821.7	819.4	818.2	814.7	813.5	810.0	807.7	805.4
10.5	10.5	10.5	12.9	7.5°	858.0	854.4	848.6	841.6	834.6	827.6	819.4	810.0
14.0	12.9	14.0	14.0	10°	888.3	880.2	869.6	856.8	847.4	834.6	821.7	810.0
16.4	15.2	14.0	15.2	12.5°	891.9	883.7	870.8	859.1	843.9	832.2	819.4	804.2
18.7	17.5	17.5	16.4	15°	875.5	866.1	856.8	849.8	839.3	828.7	817.0	805.4
16.4	16.4	16.4	18.7	17.5°	861.5	852.1	846.3	841.6	834.6	828.7	824.1	815.9
17.5	17.5	17.5	18.7	20°	845.1	839.3	836.9	835.7	832.2	829.9	826.4	822.9
16.4	15.2	16.4	16.4	22.5°	836.9	834.6	838.1	840.4	834.6	833.4	831.1	826.4
14.0	15.2	15.2	16.4	25°	839.3	835.7	836.9	840.4	840.4	838.1	833.4	829.9
14.0	15.2	15.2	15.2	27.5°	849.8	845.1	847.4	849.8	848.6	845.1	840.4	833.4
14.0	14.0	14.0	15.2	30°	862.6	859.1	860.3	860.3	856.8	852.1	846.3	840.4
12.9	12.9	12.9	12.9	32.5°	882.5	877.8	876.7	870.8	863.8	856.8	850.9	842.8
10.5	10.5	11.7	11.7	35°	907.0	898.9	893.0	883.7	872.0	865.0	854.4	842.8
11.7	10.5	10.5	12.9	37.5°	949.1	938.6	925.7	910.6	897.7	883.7	869.6	854.4
11.7	12.9	11.7	11.7	40°	1039.1	1018.1	991.2	964.3	938.6	917.6	900.0	883.7
10.5	10.5	10.5	10.5	42.5°	1192.3	1154.8	1111.6	1066.0	1020.4	985.4	958.5	936.3
9.4	8.2	8.2	9.4	45°	1402.6	1362.9	1293.9	1234.3	1170.0	1116.3	1071.9	1033.3
8.2	7.0	8.2	8.2	47.5°	1519.5	1482.1	1433.0	1382.8	1327.8	1277.6	1221.5	1170.0
7.0	8.2	8.2	8.2	50°	1552.3	1504.3	1476.3	1442.4	1405.0	1368.8	1330.2	1285.8
7.0	7.0	7.0	7.0	52.5°	1546.4	1505.5	1490.3	1465.8	1441.2	1419.0	1392.1	1353.6
7.0	5.8	5.8	5.8	55°	1481.0	1455.2	1449.4	1454.1	1451.7	1443.6	1419.0	1391.0
7.0	5.8	5.8	5.8	57.5°	1386.3	1380.4	1373.4	1396.8	1417.8	1431.9	1419.0	1396.8
5.8	4.7	4.7	4.7	60°	1218.0	1219.1	1233.2	1275.2	1320.8	1361.7	1379.3	1383.9
3.5	3.5	4.7	4.7	62.5°	1045.0	1052.0	1074.2	1112.8	1163.0	1207.4	1251.9	1288.1
3.5	3.5	3.5	3.5	65°	862.6	886.0	918.7	957.3	1006.4	1045.0	1095.2	1143.2
2.3	2.3	2.3	2.3	67.5°	672.1	700.2	751.6	804.2	867.3	907.0	949.1	986.5
				70°	476.9	526.0	584.4	641.7	706.0	756.3	807.7	852.1
				72.5°	312.1	361.2	416.1	474.6	541.2	607.8	667.4	721.2
				75°	201.0	238.5	280.5	329.6	388.1	453.5	516.6	571.6
				77.5°	139.1	156.6	178.8	213.9	264.2	321.4	376.4	418.5
				80°	111.0	114.5	120.4	139.1	171.8	213.9	256.0	286.4
				82.5°	92.3	92.3	93.5	98.2	112.2	136.8	164.8	183.5
				85°	81.8	81.8	81.8	84.2	85.3	97.0	111.0	121.6
				87.5°	64.3	66.6	67.8	69.0	71.3	74.8	79.5	84.2
				90°	39.7	44.4	46.8	49.1	50.3	51.4	52.6	54.9
				92.5°	26.9	28.1	30.4	32.7	33.9	36.2	37.4	40.9
				95°	18.7	21.0	22.2	23.4	26.9	28.1	28.1	30.4
				97.5°	15.2	15.2	16.4	18.7	19.9	21.0	22.2	23.4
				100°	12.9	12.9	14.0	14.0	15.2	15.2	16.4	17.5
				102.5°	11.7	12.9	12.9	14.0	14.0	15.2	16.4	16.4
				105°	11.7	12.9	12.9	12.9	12.9	12.9	14.0	14.0
				107.5°	10.5	10.5	10.5	11.7	11.7	11.7	11.7	11.7
				110°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	12.9

REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

212.5°	215°	217.5°		192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°
787.8	787.8	787.8	112.5°	10.5	10.5	10.5	11.7	11.7	11.7	11.7	11.7	11.7
794.8	793.7	792.5	115°	10.5	10.5	10.5	10.5	11.7	11.7	11.7	11.7	11.7
801.8	798.3	796.0	117.5°	11.7	11.7	11.7	11.7	10.5	11.7	11.7	11.7	11.7
801.8	793.7	785.5	120°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	11.7
797.2	785.5	773.8	122.5°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
790.2	777.3	762.1	125°	14.0	12.9	12.9	12.9	12.9	12.9	12.9	12.9	14.0
793.7	783.1	766.8	127.5°	14.0	12.9	12.9	14.0	14.0	14.0	14.0	14.0	14.0
810.0	801.8	784.3	130°	18.7	18.7	17.5	16.4	15.2	14.0	14.0	14.0	14.0
818.2	814.7	799.5	132.5°	17.5	17.5	18.7	17.5	17.5	16.4	16.4	16.4	14.0
821.7	817.0	805.4	135°	15.2	16.4	16.4	17.5	17.5	17.5	17.5	18.7	15.2
822.9	815.9	805.4	137.5°	16.4	17.5	17.5	18.7	17.5	17.5	17.5	17.5	16.4
826.4	820.5	807.7	140°	15.2	16.4	16.4	16.4	16.4	16.4	17.5	17.5	16.4
833.4	825.2	815.9	142.5°	15.2	15.2	15.2	15.2	16.4	16.4	16.4	16.4	14.0
836.9	829.9	820.5	145°	14.0	14.0	15.2	15.2	15.2	16.4	16.4	16.4	16.4
832.2	826.4	818.2	147.5°	12.9	12.9	12.9	14.0	14.0	15.2	15.2	16.4	16.4
842.8	829.9	825.2	150°	12.9	12.9	12.9	14.0	14.0	14.0	15.2	16.4	15.2
867.3	852.1	846.3	152.5°	11.7	11.7	12.9	12.9	12.9	12.9	12.9	14.0	15.2
911.7	888.3	876.7	155°	9.4	10.5	10.5	11.7	11.7	12.9	12.9	14.0	12.9
992.4	952.6	933.9	157.5°	10.5	10.5	10.5	10.5	10.5	10.5	11.7	11.7	11.7
1119.8	1069.5	1034.5	160°	8.2	8.2	8.2	9.4	9.4	9.4	9.4	9.4	8.2
1244.9	1207.4	1164.2	162.5°	8.2	8.2	8.2	9.4	9.4	9.4	9.4	9.4	7.0
1310.3	1265.9	1233.2	165°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.2	7.0
1357.1	1322.0	1291.6	167.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.2	7.0
1360.6	1326.7	1315.0	170°	4.7	4.7	4.7	4.7	4.7	4.7	5.8	5.8	4.7
1371.1	1345.4	1326.7	172.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	3.5
1315.0	1326.7	1326.7	175°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	3.5
1186.4	1215.6	1241.3	177.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.7	4.7	3.5
1016.9	1035.6	1077.7	180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
876.7	883.7	912.9										
746.9	756.3	776.1										
602.0	624.2	651.1										
446.5	474.6	507.3										
310.9	340.1	364.7										
205.7	230.3	253.6										
136.8	153.1	168.3										
90.0	98.2	107.5										
57.3	59.6	63.1										
40.9	42.1	43.2										
31.6	31.6	35.1										
23.4	24.5	25.7										
17.5	18.7	18.7										
16.4	16.4	17.5										
12.9	14.0	15.2										
11.7	12.9	12.9										
12.9	12.9	14.0										



REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

215°	217.5°		220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°
11.7	11.7	0°	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8
11.7	11.7	2.5°	791.3	790.2	791.3	791.3	790.2	790.2	789.0	787.8	787.8	787.8
11.7	11.7	5°	793.7	791.3	787.8	785.5	784.3	782.0	778.5	775.0	775.0	772.6
11.7	11.7	7.5°	779.6	772.6	764.4	760.9	753.9	751.6	745.7	743.4	739.9	736.4
12.9	12.9	10°	763.3	752.8	741.1	730.5	720.0	710.7	702.5	700.2	694.3	692.0
14.0	14.0	12.5°	748.1	732.9	720.0	707.2	696.6	685.0	674.4	666.3	661.6	655.7
14.0	14.0	15°	751.6	737.6	723.5	708.3	695.5	681.5	667.4	656.9	647.6	638.2
14.0	14.0	17.5°	769.1	755.1	738.7	724.7	709.5	694.3	677.9	665.1	654.6	641.7
14.0	14.0	20°	786.7	771.5	757.4	742.2	725.9	709.5	693.1	679.1	667.4	652.2
16.4	16.4	22.5°	794.8	786.7	776.1	760.9	743.4	727.0	708.3	694.3	680.3	665.1
17.5	17.5	25°	797.2	787.8	782.0	766.8	752.8	737.6	721.2	707.2	693.1	677.9
16.4	16.4	27.5°	799.5	791.3	783.1	772.6	760.9	746.9	734.1	722.4	706.0	692.0
14.0	15.2	30°	806.5	797.2	792.5	782.0	771.5	757.4	748.1	734.1	721.2	709.5
16.4	17.5	32.5°	811.2	800.7	796.0	789.0	782.0	772.6	767.9	756.3	743.4	731.7
17.5	16.4	35°	811.2	805.4	799.5	796.0	790.2	785.5	782.0	773.8	765.6	755.1
15.2	15.2	37.5°	820.5	815.9	811.2	808.9	804.2	801.8	799.5	792.5	784.3	777.3
14.0	14.0	40°	841.6	835.7	827.6	822.9	821.7	818.2	817.0	811.2	807.7	804.2
11.7	11.7	42.5°	869.6	858.0	847.4	843.9	842.8	838.1	835.7	834.6	838.1	841.6
11.7	11.7	45°	916.4	896.5	876.7	870.8	869.6	868.5	866.1	879.0	896.5	911.7
8.2	9.4	47.5°	1002.9	973.7	943.3	938.6	940.9	942.1	943.3	973.7	1006.4	1039.1
8.2	9.4	50°	1128.0	1096.4	1062.5	1056.7	1056.7	1055.5	1055.5	1088.2	1117.4	1151.3
7.0	7.0	52.5°	1213.3	1191.1	1177.1	1170.0	1170.0	1168.9	1172.4	1207.4	1243.7	1278.7
7.0	7.0	55°	1265.9	1246.0	1232.0	1235.5	1244.9	1256.5	1275.2	1295.1	1316.2	1339.5
4.7	4.7	57.5°	1302.1	1285.8	1278.7	1279.9	1284.6	1295.1	1324.3	1332.5	1341.9	1361.7
3.5	3.5	60°	1311.5	1299.8	1290.4	1298.6	1303.3	1308.0	1343.0	1355.9	1369.9	1393.3
3.5	3.5	62.5°	1319.7	1311.5	1310.3	1313.8	1317.3	1327.8	1355.9	1379.3	1405.0	1413.2
3.5	3.5	65°	1265.9	1284.6	1292.8	1292.8	1301.0	1313.8	1333.7	1336.0	1338.4	1336.0
2.3	2.3	67.5°	1122.1	1154.8	1179.4	1184.1	1191.1	1198.1	1206.3	1191.1	1177.1	1168.9
		70°	943.3	963.2	977.2	985.4	994.7	1001.7	1005.2	981.9	963.2	955.0
		72.5°	790.2	793.7	798.3	803.0	806.5	808.9	808.9	783.1	764.4	753.9
		75°	666.3	666.3	661.6	655.7	649.9	647.6	644.0	625.3	596.1	572.7
		77.5°	524.8	526.0	520.1	513.1	501.4	486.3	474.6	455.9	429.0	404.4
		80°	374.0	370.5	367.0	367.0	355.3	339.0	316.8	288.7	280.5	266.5
		82.5°	256.0	256.0	251.3	247.8	240.8	225.6	206.9	187.0	181.2	173.0
		85°	171.8	170.7	169.5	167.1	162.5	150.8	137.9	128.6	126.2	121.6
		87.5°	108.7	108.7	109.9	108.7	108.7	102.9	95.8	92.3	94.7	91.2
		90°	64.3	64.3	65.5	67.8	69.0	69.0	67.8	67.8	69.0	69.0
		92.5°	45.6	45.6	47.9	49.1	49.1	51.4	51.4	51.4	53.8	52.6
		95°	37.4	38.6	40.9	40.9	42.1	40.9	40.9	40.9	42.1	42.1
		97.5°	28.1	29.2	31.6	32.7	35.1	35.1	36.2	36.2	37.4	36.2
		100°	21.0	22.2	22.2	23.4	25.7	25.7	26.9	28.1	29.2	29.2
		102.5°	17.5	15.2	15.2	16.4	16.4	17.5	18.7	19.9	21.0	21.0
		105°	14.0	12.9	12.9	12.9	14.0	15.2	15.2	15.2	16.4	16.4
		107.5°	12.9	11.7	11.7	12.9	12.9	12.9	14.0	14.0	15.2	14.0
		110°	14.0	11.7	11.7	11.7	12.9	12.9	14.0	14.0	14.0	12.9



REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

245°		220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
787.8	112.5°	10.5	9.4	10.5	10.5	11.7	11.7	12.9	12.9	12.9	11.7	11.7
786.7	115°	10.5	9.4	9.4	10.5	10.5	10.5	11.7	12.9	14.0	12.9	12.9
770.3	117.5°	10.5	9.4	9.4	9.4	9.4	9.4	10.5	11.7	12.9	11.7	11.7
732.9	120°	10.5	9.4	9.4	9.4	10.5	10.5	10.5	11.7	11.7	10.5	11.7
687.3	122.5°	12.9	9.4	9.4	10.5	10.5	11.7	11.7	10.5	11.7	10.5	10.5
651.1	125°	12.9	10.5	10.5	10.5	11.7	11.7	10.5	11.7	12.9	11.7	11.7
632.4	127.5°	14.0	12.9	12.9	12.9	12.9	10.5	11.7	11.7	12.9	11.7	11.7
632.4	130°	14.0	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	10.5	9.4
640.5	132.5°	14.0	12.9	11.7	11.7	11.7	11.7	12.9	14.0	14.0	12.9	12.9
649.9	135°	16.4	15.2	15.2	15.2	14.0	14.0	11.7	11.7	14.0	12.9	14.0
662.8	137.5°	17.5	15.2	14.0	14.0	15.2	14.0	14.0	14.0	12.9	14.0	14.0
679.1	140°	17.5	16.4	16.4	16.4	15.2	15.2	14.0	14.0	14.0	14.0	14.0
696.6	142.5°	16.4	15.2	15.2	15.2	15.2	14.0	14.0	14.0	12.9	14.0	12.9
721.2	145°	18.7	16.4	16.4	15.2	17.5	15.2	15.2	15.2	15.2	15.2	15.2
746.9	147.5°	16.4	14.0	14.0	15.2	15.2	15.2	15.2	15.2	14.0	12.9	12.9
770.3	150°	15.2	14.0	14.0	15.2	15.2	14.0	14.0	14.0	14.0	12.9	12.9
800.7	152.5°	14.0	12.9	12.9	14.0	14.0	12.9	12.9	12.9	12.9	12.9	12.9
843.9	155°	11.7	11.7	12.9	12.9	12.9	11.7	11.7	11.7	11.7	10.5	10.5
926.9	157.5°	12.9	11.7	11.7	11.7	11.7	9.4	9.4	9.4	9.4	9.4	9.4
1071.9	160°	9.4	9.4	9.4	9.4	9.4	7.0	7.0	7.0	8.2	8.2	8.2
1186.4	162.5°	9.4	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
1318.5	165°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.2	8.2	8.2	8.2
1367.6	167.5°	7.0	7.0	7.0	7.0	7.0	5.8	5.8	7.0	7.0	7.0	7.0
1386.3	170°	4.7	3.5	3.5	3.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1419.0	172.5°	3.5	3.5	2.3	2.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1427.2	175°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.3	3.5	3.5	3.5
1338.4	177.5°	3.5	3.5	3.5	3.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1160.7	180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
944.4												
742.2												
550.5												
376.4												
249.0												
161.3												
113.4												
88.8												
66.6												
51.4												
42.1												
35.1												
30.4												
22.2												
16.4												
14.0												
12.9												



REPORT NUMBER: P188108
 CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°	
0°	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	112.5°
2.5°	786.7	787.8	786.7	785.5	785.5	785.5	786.7	786.7	785.5	784.3	785.5	115°
5°	770.3	767.9	767.9	765.6	766.8	767.9	765.6	766.8	766.8	766.8	766.8	117.5°
7.5°	734.1	732.9	731.7	729.4	729.4	729.4	728.2	727.0	731.7	731.7	731.7	120°
10°	687.3	686.1	686.1	686.1	686.1	688.5	688.5	686.1	687.3	689.6	687.3	122.5°
12.5°	649.9	648.7	646.4	644.0	645.2	645.2	646.4	646.4	647.6	647.6	647.6	125°
15°	630.0	628.9	625.3	620.7	620.7	619.5	620.7	619.5	619.5	619.5	619.5	127.5°
17.5°	628.9	625.3	621.8	618.3	617.2	616.0	613.7	612.5	611.3	609.0	611.3	130°
20°	635.9	631.2	627.7	621.8	619.5	619.5	616.0	616.0	616.0	613.7	616.0	132.5°
22.5°	644.0	639.4	635.9	630.0	630.0	630.0	626.5	626.5	626.5	624.2	626.5	135°
25°	655.7	651.1	646.4	640.5	640.5	638.2	637.0	635.9	634.7	631.2	634.7	137.5°
27.5°	669.8	662.8	655.7	648.7	645.2	642.9	641.7	639.4	639.4	638.2	639.4	140°
30°	689.6	680.3	673.3	666.3	663.9	661.6	659.2	656.9	655.7	653.4	655.7	142.5°
32.5°	714.2	707.2	699.0	693.1	689.6	687.3	683.8	680.3	679.1	675.6	679.1	145°
35°	739.9	735.2	729.4	723.5	724.7	723.5	724.7	723.5	722.4	721.2	722.4	147.5°
37.5°	769.1	769.1	769.1	770.3	776.1	779.6	784.3	786.7	786.7	786.7	786.7	150°
40°	808.9	818.2	824.1	832.2	846.3	862.6	876.7	890.7	891.9	895.4	891.9	152.5°
42.5°	865.0	887.2	908.2	929.3	956.1	983.0	1007.6	1033.3	1040.3	1046.1	1040.3	155°
45°	969.0	1013.4	1057.8	1102.2	1143.2	1186.4	1228.5	1271.7	1284.6	1298.6	1284.6	157.5°
47.5°	1133.8	1194.6	1244.9	1298.6	1345.4	1392.1	1440.1	1488.0	1504.3	1519.5	1504.3	160°
50°	1256.5	1326.7	1393.3	1462.3	1519.5	1574.5	1630.6	1686.7	1713.6	1740.5	1713.6	162.5°
52.5°	1386.3	1457.6	1510.2	1566.3	1615.4	1664.5	1712.4	1758.0	1786.0	1815.3	1786.0	165°
55°	1424.9	1479.8	1528.9	1576.8	1628.2	1678.5	1728.8	1774.4	1812.9	1848.0	1812.9	167.5°
57.5°	1443.6	1499.7	1552.3	1603.7	1664.5	1718.2	1774.4	1830.5	1881.9	1929.8	1881.9	170°
60°	1473.9	1526.5	1579.1	1637.6	1705.4	1755.6	1804.7	1853.8	1895.9	1935.7	1895.9	172.5°
62.5°	1469.3	1510.2	1537.1	1568.6	1609.5	1645.8	1677.3	1713.6	1751.0	1787.2	1751.0	175°
65°	1351.2	1365.2	1369.9	1375.8	1395.6	1417.8	1437.7	1459.9	1488.0	1518.4	1488.0	177.5°
67.5°	1152.5	1145.5	1135.0	1122.1	1122.1	1125.6	1126.8	1128.0	1143.2	1158.4	1143.2	180°
70°	926.9	911.7	894.2	872.0	858.0	846.3	835.7	825.2	828.7	833.4	828.7	
72.5°	722.4	700.2	675.6	652.2	637.0	619.5	598.5	579.8	576.3	573.9	576.3	
75°	528.3	499.1	471.1	441.8	420.8	409.1	389.2	371.7	367.0	361.2	367.0	
77.5°	348.3	323.8	303.9	281.7	271.2	268.8	261.8	259.5	261.8	265.3	261.8	
80°	229.1	210.4	197.5	182.3	175.3	173.0	167.1	163.6	166.0	168.3	166.0	
82.5°	150.8	142.6	130.9	118.1	113.4	115.7	115.7	115.7	119.2	121.6	119.2	
85°	106.4	100.5	94.7	87.7	86.5	86.5	87.7	86.5	90.0	92.3	90.0	
87.5°	83.0	79.5	73.6	66.6	65.5	64.3	63.1	62.0	64.3	64.3	64.3	
90°	64.3	63.1	59.6	54.9	52.6	51.4	46.8	44.4	45.6	44.4	45.6	
92.5°	51.4	49.1	47.9	44.4	42.1	42.1	39.7	37.4	37.4	37.4	37.4	
95°	42.1	40.9	40.9	38.6	37.4	36.2	33.9	31.6	31.6	30.4	31.6	
97.5°	35.1	35.1	33.9	32.7	31.6	30.4	28.1	26.9	26.9	26.9	26.9	
100°	30.4	31.6	29.2	29.2	29.2	30.4	29.2	28.1	28.1	28.1	28.1	
102.5°	22.2	23.4	23.4	22.2	22.2	23.4	23.4	23.4	23.4	21.0	23.4	
105°	17.5	17.5	17.5	17.5	18.7	17.5	16.4	15.2	16.4	16.4	16.4	
107.5°	15.2	15.2	15.2	14.0	14.0	14.0	11.7	11.7	11.7	10.5	11.7	
110°	12.9	12.9	12.9	12.9	12.9	11.7	11.7	10.5	10.5	10.5	10.5	

NUMBER: P188108
 NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°	275°	
12.9	11.7	11.7	11.7	11.7	11.7	11.7	10.5	10.5	9.4	10.5	0°	787.8
11.7	11.7	11.7	10.5	10.5	10.5	9.4	9.4	9.4	9.4	9.4	2.5°	786.7
12.9	11.7	11.7	10.5	10.5	10.5	8.2	8.2	8.2	8.2	8.2	5°	766.8
11.7	10.5	11.7	10.5	10.5	9.4	8.2	8.2	8.2	8.2	8.2	7.5°	727.0
10.5	8.2	8.2	8.2	8.2	8.2	7.0	7.0	7.0	7.0	7.0	10°	686.1
11.7	10.5	10.5	9.4	9.4	8.2	7.0	7.0	7.0	7.0	7.0	12.5°	646.4
11.7	9.4	9.4	8.2	8.2	8.2	7.0	7.0	7.0	7.0	7.0	15°	619.5
10.5	10.5	10.5	9.4	9.4	8.2	7.0	7.0	7.0	7.0	7.0	17.5°	612.5
12.9	11.7	10.5	10.5	9.4	9.4	8.2	7.0	7.0	7.0	7.0	20°	616.0
14.0	12.9	11.7	10.5	10.5	9.4	9.4	9.4	9.4	8.2	9.4	22.5°	626.5
14.0	11.7	11.7	10.5	11.7	11.7	12.9	12.9	14.0	14.0	14.0	25°	635.9
14.0	11.7	12.9	11.7	12.9	12.9	14.0	15.2	16.4	17.5	16.4	27.5°	639.4
12.9	12.9	11.7	11.7	12.9	15.2	16.4	16.4	16.4	16.4	16.4	30°	656.9
15.2	15.2	15.2	15.2	15.2	14.0	14.0	14.0	14.0	14.0	14.0	32.5°	680.3
14.0	12.9	14.0	14.0	15.2	15.2	15.2	15.2	15.2	15.2	15.2	35°	723.5
12.9	11.7	11.7	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	37.5°	786.7
12.9	12.9	12.9	14.0	12.9	12.9	12.9	12.9	12.9	12.9	12.9	40°	890.7
10.5	10.5	10.5	10.5	11.7	11.7	11.7	11.7	12.9	12.9	12.9	42.5°	1033.3
9.4	9.4	9.4	9.4	9.4	10.5	10.5	10.5	11.7	11.7	11.7	45°	1271.7
8.2	8.2	8.2	8.2	8.2	8.2	9.4	9.4	9.4	8.2	9.4	47.5°	1488.0
8.2	7.0	7.0	7.0	7.0	7.0	7.0	7.0	9.4	9.4	9.4	50°	1686.7
8.2	7.0	8.2	7.0	7.0	8.2	8.2	9.4	8.2	8.2	8.2	52.5°	1758.0
5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.0	7.0	7.0	55°	1774.4
4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.8	5.8	5.8	57.5°	1830.5
4.7	4.7	4.7	4.7	4.7	5.8	5.8	5.8	5.8	5.8	5.8	60°	1853.8
3.5	3.5	3.5	3.5	3.5	4.7	5.8	5.8	5.8	5.8	5.8	62.5°	1713.6
4.7	4.7	4.7	4.7	4.7	5.8	5.8	5.8	5.8	5.8	5.8	65°	1459.9
2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	67.5°	1128.0
											70°	825.2
											72.5°	579.8
											75°	371.7
											77.5°	259.5
											80°	163.6
											82.5°	115.7
											85°	86.5
											87.5°	62.0
											90°	44.4
											92.5°	37.4
											95°	31.6
											97.5°	26.9
											100°	28.1
											102.5°	23.4
											105°	15.2
											107.5°	11.7
											110°	10.5

'188108
 QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

REPORT NUMBER: P188108
 CATALOG NUMBER: QDCAST1

TION (continued):

CANDELA DISTRIBUTION (con

277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°		275°	277.5°
787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	112.5°	10.5	11.7
786.7	785.5	785.5	785.5	786.7	787.8	786.7	786.7	787.8	787.8	115°	9.4	9.4
765.6	767.9	766.8	765.6	767.9	767.9	770.3	770.3	772.6	775.0	117.5°	8.2	8.2
728.2	729.4	729.4	729.4	731.7	732.9	734.1	732.9	736.4	739.9	120°	8.2	8.2
688.5	688.5	686.1	686.1	686.1	686.1	687.3	687.3	692.0	694.3	122.5°	7.0	7.0
646.4	645.2	645.2	644.0	646.4	648.7	649.9	651.1	655.7	661.6	125°	7.0	7.0
620.7	619.5	620.7	620.7	625.3	628.9	630.0	632.4	638.2	647.6	127.5°	7.0	7.0
613.7	616.0	617.2	618.3	621.8	625.3	628.9	632.4	641.7	654.6	130°	7.0	7.0
616.0	619.5	619.5	621.8	627.7	631.2	635.9	640.5	652.2	667.4	132.5°	7.0	8.2
626.5	630.0	630.0	630.0	635.9	639.4	644.0	649.9	665.1	680.3	135°	9.4	9.4
637.0	638.2	640.5	640.5	646.4	651.1	655.7	662.8	677.9	693.1	137.5°	12.9	12.9
641.7	642.9	645.2	648.7	655.7	662.8	669.8	679.1	692.0	706.0	140°	15.2	14.0
659.2	661.6	663.9	666.3	673.3	680.3	689.6	696.6	709.5	721.2	142.5°	16.4	16.4
683.8	687.3	689.6	693.1	699.0	707.2	714.2	721.2	731.7	743.4	145°	14.0	14.0
724.7	723.5	724.7	723.5	729.4	735.2	739.9	746.9	755.1	765.6	147.5°	15.2	15.2
784.3	779.6	776.1	770.3	769.1	769.1	769.1	770.3	777.3	784.3	150°	14.0	14.0
876.7	862.6	846.3	832.2	824.1	818.2	810.0	800.7	804.2	807.7	152.5°	12.9	12.9
1007.6	983.0	956.1	929.3	908.2	887.2	866.1	843.9	841.6	838.1	155°	11.7	11.7
1228.5	1186.4	1143.2	1102.2	1057.8	1013.4	969.0	926.9	911.7	896.5	157.5°	10.5	10.5
1440.1	1392.1	1345.4	1298.6	1244.9	1194.6	1133.8	1071.9	1038.0	1006.4	160°	9.4	9.4
1630.6	1574.5	1519.5	1462.3	1394.5	1326.7	1256.5	1186.4	1150.2	1117.4	162.5°	7.0	7.0
1712.4	1664.5	1615.4	1566.3	1510.2	1457.6	1387.5	1318.5	1278.7	1243.7	165°	9.4	8.2
1728.8	1678.5	1628.2	1576.8	1528.9	1479.8	1424.9	1367.6	1339.5	1316.2	167.5°	5.8	5.8
1773.2	1718.2	1663.3	1603.7	1552.3	1499.7	1443.6	1386.3	1361.7	1341.9	170°	4.7	4.7
1804.7	1755.6	1705.4	1637.6	1579.1	1526.5	1473.9	1419.0	1393.3	1369.9	172.5°	5.8	5.8
1677.3	1645.8	1609.5	1568.6	1537.1	1510.2	1469.3	1427.2	1413.2	1405.0	175°	5.8	5.8
1437.7	1417.8	1395.6	1375.8	1369.9	1365.2	1351.2	1338.4	1337.2	1338.4	177.5°	5.8	5.8
1126.8	1125.6	1122.1	1120.9	1135.0	1145.5	1152.5	1160.7	1168.9	1177.1	180°	2.3	2.3
834.6	846.3	856.8	872.0	893.0	911.7	925.7	944.4	955.0	963.2			
598.5	619.5	637.0	652.2	675.6	700.2	722.4	742.2	753.9	764.4			
389.2	409.1	420.8	441.8	471.1	499.1	527.2	550.5	572.7	597.3			
261.8	268.8	271.2	281.7	303.9	323.8	348.3	376.4	404.4	429.0			
167.1	173.0	175.3	182.3	197.5	210.4	229.1	249.0	266.5	280.5			
115.7	115.7	113.4	118.1	130.9	142.6	150.8	161.3	173.0	181.2			
87.7	86.5	86.5	87.7	94.7	100.5	106.4	113.4	121.6	126.2			
63.1	64.3	65.5	66.6	73.6	79.5	83.0	88.8	91.2	94.7			
46.8	51.4	52.6	54.9	59.6	63.1	64.3	66.6	69.0	69.0			
39.7	42.1	42.1	44.4	47.9	49.1	51.4	51.4	52.6	53.8			
33.9	36.2	37.4	38.6	40.9	40.9	42.1	42.1	42.1	42.1			
28.1	30.4	31.6	32.7	33.9	35.1	35.1	35.1	36.2	37.4			
29.2	30.4	29.2	29.2	29.2	31.6	30.4	30.4	29.2	29.2			
23.4	23.4	22.2	22.2	23.4	23.4	22.2	22.2	21.0	21.0			
16.4	17.5	18.7	17.5	17.5	17.5	17.5	16.4	16.4	16.4			
11.7	14.0	14.0	14.0	15.2	15.2	15.2	14.0	14.0	15.2			
11.7	11.7	12.9	12.9	12.9	12.9	12.9	12.9	12.9	14.0			



REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANEL)

B (2PANELS 0°TILT; 2PANELS 15° TILT)

tinued):

CANDELA DISTRIBUTION (continued):

280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°		302.5°	305°	307.5°
11.7	11.7	11.7	11.7	11.7	12.9	11.7	11.7	12.9	0°	787.8	787.8	787.8
10.5	10.5	10.5	11.7	11.7	11.7	12.9	12.9	14.0	2.5°	787.8	789.0	790.2
10.5	10.5	10.5	11.7	11.7	12.9	11.7	11.7	12.9	5°	775.0	778.5	782.0
9.4	10.5	10.5	11.7	10.5	11.7	11.7	10.5	11.7	7.5°	743.4	745.7	751.6
8.2	8.2	8.2	8.2	8.2	10.5	10.5	10.5	11.7	10°	700.2	702.5	710.7
8.2	9.4	9.4	10.5	10.5	11.7	11.7	11.7	12.9	12.5°	666.3	674.4	685.0
8.2	8.2	8.2	9.4	9.4	11.7	11.7	11.7	12.9	15°	656.9	667.4	681.5
8.2	9.4	9.4	10.5	10.5	10.5	9.4	10.5	11.7	17.5°	665.1	677.9	694.3
9.4	9.4	10.5	10.5	11.7	12.9	12.9	12.9	14.0	20°	679.1	693.1	709.5
9.4	10.5	10.5	11.7	12.9	14.0	14.0	12.9	14.0	22.5°	694.3	708.3	727.0
11.7	11.7	10.5	11.7	11.7	14.0	14.0	14.0	12.9	25°	707.2	721.2	737.6
12.9	12.9	11.7	12.9	11.7	14.0	14.0	14.0	14.0	27.5°	722.4	734.1	746.9
15.2	12.9	11.7	11.7	12.9	12.9	12.9	14.0	12.9	30°	734.1	748.1	757.4
14.0	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	32.5°	756.3	767.9	772.6
15.2	15.2	14.0	14.0	12.9	14.0	12.9	12.9	14.0	35°	773.8	782.0	785.5
14.0	14.0	14.0	11.7	11.7	12.9	12.9	12.9	14.0	37.5°	792.5	799.5	801.8
12.9	12.9	14.0	12.9	12.9	12.9	12.9	12.9	12.9	40°	811.2	817.0	818.2
11.7	11.7	10.5	10.5	10.5	10.5	10.5	10.5	11.7	42.5°	834.6	835.7	838.1
10.5	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	45°	879.0	866.1	868.5
8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	47.5°	972.5	943.3	942.1
7.0	7.0	7.0	7.0	7.0	8.2	8.2	8.2	8.2	50°	1087.1	1055.5	1055.5
8.2	7.0	7.0	8.2	7.0	8.2	8.2	8.2	8.2	52.5°	1207.4	1172.4	1168.9
5.8	5.8	5.8	5.8	5.8	5.8	7.0	7.0	7.0	55°	1295.1	1275.2	1256.5
4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	57.5°	1332.5	1324.3	1295.1
5.8	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	60°	1355.9	1343.0	1308.0
4.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	62.5°	1379.3	1355.9	1329.0
5.8	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	65°	1337.2	1333.7	1313.8
2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	67.5°	1191.1	1206.3	1196.9
									70°	981.9	1005.2	1001.7
									72.5°	783.1	808.9	808.9
									75°	625.3	644.0	647.6
									77.5°	455.9	474.6	486.3
									80°	288.7	316.8	339.0
									82.5°	187.0	206.9	225.6
									85°	128.6	137.9	150.8
									87.5°	92.3	95.8	102.9
									90°	67.8	67.8	69.0
									92.5°	51.4	51.4	51.4
									95°	40.9	40.9	40.9
									97.5°	36.2	36.2	35.1
									100°	28.1	26.9	25.7
									102.5°	19.9	18.7	17.5
									105°	15.2	15.2	15.2
									107.5°	14.0	14.0	12.9
									110°	14.0	14.0	12.9



REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2

S 0°TILT; 2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°		302.5°	305°	307.5°	310°
787.8	787.8	787.8	787.8	787.8	787.8	787.8	787.8	112.5°	12.9	12.9	11.7	11.7
790.2	791.3	791.3	790.2	791.3	792.5	793.7	794.8	115°	12.9	11.7	10.5	10.5
784.3	785.5	787.8	791.3	793.7	796.0	798.3	801.8	117.5°	11.7	10.5	9.4	9.4
753.9	760.9	764.4	772.6	779.6	785.5	793.7	801.8	120°	11.7	10.5	10.5	10.5
720.0	730.5	741.1	752.8	763.3	773.8	785.5	797.2	122.5°	10.5	11.7	11.7	10.5
696.6	707.2	720.0	732.9	748.1	762.1	777.3	790.2	125°	11.7	10.5	11.7	11.7
695.5	708.3	723.5	737.6	751.6	766.8	783.1	793.7	127.5°	11.7	11.7	10.5	12.9
709.5	724.7	738.7	755.1	769.1	784.3	801.8	810.0	130°	11.7	11.7	11.7	11.7
725.9	742.2	757.4	771.5	785.5	799.5	814.7	818.2	132.5°	14.0	12.9	11.7	11.7
743.4	760.9	776.1	786.7	794.8	805.4	817.0	821.7	135°	11.7	11.7	14.0	14.0
752.8	766.8	782.0	787.8	797.2	805.4	815.9	822.9	137.5°	14.0	14.0	14.0	15.2
760.9	772.6	783.1	791.3	799.5	807.7	820.5	826.4	140°	14.0	14.0	15.2	15.2
771.5	782.0	792.5	797.2	806.5	815.9	825.2	833.4	142.5°	14.0	14.0	14.0	15.2
782.0	789.0	796.0	800.7	811.2	820.5	829.9	836.9	145°	15.2	15.2	15.2	17.5
790.2	796.0	799.5	805.4	811.2	818.2	826.4	832.2	147.5°	15.2	15.2	15.2	15.2
804.2	808.9	811.2	815.9	820.5	825.2	829.9	842.8	150°	14.0	14.0	14.0	15.2
821.7	822.9	827.6	835.7	841.6	846.3	852.1	867.3	152.5°	12.9	12.9	12.9	14.0
842.8	843.9	847.4	858.0	869.6	876.7	888.3	911.7	155°	11.7	11.7	11.7	12.9
869.6	870.8	876.7	896.5	916.4	933.9	952.6	992.4	157.5°	9.4	9.4	9.4	11.7
940.9	938.6	943.3	973.7	1002.9	1034.5	1069.5	1119.8	160°	7.0	7.0	7.0	9.4
1056.7	1056.7	1062.5	1096.4	1128.0	1164.2	1207.4	1244.9	162.5°	8.2	8.2	8.2	8.2
1170.0	1170.0	1177.1	1192.3	1213.3	1234.3	1264.7	1310.3	165°	8.2	7.0	7.0	7.0
1244.9	1235.5	1232.0	1246.0	1265.9	1292.8	1322.0	1357.1	167.5°	7.0	5.8	5.8	7.0
1284.6	1279.9	1278.7	1286.9	1302.1	1316.2	1326.7	1360.6	170°	4.7	4.7	4.7	4.7
1302.1	1298.6	1290.4	1299.8	1312.6	1326.7	1345.4	1371.1	172.5°	4.7	4.7	4.7	4.7
1317.3	1315.0	1310.3	1311.5	1319.7	1326.7	1326.7	1315.0	175°	2.3	3.5	3.5	3.5
1301.0	1293.9	1292.8	1284.6	1265.9	1241.3	1215.6	1186.4	177.5°	4.7	4.7	4.7	4.7
1191.1	1184.1	1179.4	1154.8	1123.3	1077.7	1035.6	1016.9	180°	2.3	2.3	2.3	2.3
994.7	984.2	977.2	963.2	944.4	912.9	883.7	876.7					
806.5	803.0	798.3	794.8	790.2	777.3	756.3	746.9					
649.9	655.7	661.6	666.3	667.4	651.1	624.2	602.0					
501.4	513.1	520.1	526.0	524.8	507.3	474.6	446.5					
355.3	367.0	367.0	370.5	374.0	364.7	340.1	310.9					
240.8	247.8	251.3	256.0	256.0	253.6	230.3	205.7					
162.5	167.1	169.5	170.7	171.8	168.3	153.1	136.8					
108.7	108.7	109.9	108.7	108.7	107.5	98.2	90.0					
69.0	67.8	65.5	64.3	64.3	63.1	59.6	57.3					
49.1	49.1	47.9	45.6	45.6	43.2	42.1	40.9					
42.1	40.9	40.9	38.6	37.4	35.1	31.6	31.6					
35.1	32.7	31.6	29.2	28.1	25.7	24.5	23.4					
25.7	23.4	22.2	22.2	21.0	18.7	18.7	17.5					
16.4	16.4	15.2	15.2	17.5	17.5	16.4	16.4					
14.0	12.9	12.9	12.9	14.0	15.2	14.0	12.9					
12.9	12.9	11.7	11.7	12.9	12.9	12.9	11.7					
12.9	11.7	11.7	11.7	14.0	14.0	12.9	12.9					



REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15°TILT)

2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

312.5°	315°	317.5°	320°	322.5°	325°	327.5°		330°	332.5°	335°	337.5°	340°
10.5	10.5	9.4	10.5	11.7	11.7	11.7	0°	787.8	787.8	787.8	787.8	787.8
10.5	9.4	9.4	10.5	11.7	11.7	11.7	2.5°	796.0	796.0	797.2	798.3	799.5
9.4	9.4	9.4	10.5	11.7	11.7	11.7	5°	805.4	807.7	810.0	813.5	814.7
9.4	9.4	9.4	10.5	11.7	11.7	11.7	7.5°	810.0	819.4	827.6	834.6	840.4
10.5	9.4	9.4	12.9	12.9	12.9	12.9	10°	808.9	821.7	834.6	847.4	856.8
10.5	10.5	10.5	12.9	14.0	14.0	14.0	12.5°	804.2	819.4	832.2	843.9	859.1
12.9	12.9	12.9	14.0	14.0	14.0	14.0	15°	804.2	817.0	828.7	839.3	848.6
11.7	11.7	11.7	14.0	14.0	14.0	14.0	17.5°	815.9	824.1	828.7	834.6	840.4
11.7	11.7	12.9	14.0	14.0	14.0	14.0	20°	822.9	826.4	829.9	832.2	835.7
15.2	15.2	15.2	16.4	16.4	16.4	15.2	22.5°	826.4	831.1	833.4	834.6	840.4
14.0	14.0	15.2	17.5	17.5	17.5	16.4	25°	829.9	833.4	838.1	840.4	840.4
16.4	16.4	16.4	17.5	16.4	16.4	16.4	27.5°	833.4	840.4	845.1	848.6	849.8
15.2	15.2	15.2	16.4	15.2	14.0	14.0	30°	840.4	846.3	852.1	856.8	860.3
15.2	16.4	16.4	18.7	17.5	16.4	16.4	32.5°	842.8	850.9	856.8	863.8	870.8
15.2	14.0	14.0	16.4	16.4	17.5	16.4	35°	842.8	854.4	865.0	872.0	883.7
15.2	14.0	14.0	15.2	15.2	15.2	15.2	37.5°	854.4	869.6	883.7	897.7	910.6
14.0	12.9	12.9	14.0	14.0	14.0	15.2	40°	883.7	900.0	917.6	938.6	964.3
12.9	12.9	11.7	11.7	11.7	11.7	12.9	42.5°	936.3	958.5	985.4	1020.4	1066.0
11.7	11.7	11.7	12.9	11.7	11.7	11.7	45°	1033.3	1071.9	1116.3	1170.0	1234.3
9.4	9.4	9.4	9.4	9.4	8.2	8.2	47.5°	1170.0	1221.5	1277.6	1327.8	1382.8
8.2	8.2	8.2	9.4	9.4	8.2	7.0	50°	1285.8	1330.2	1368.8	1405.0	1442.4
7.0	7.0	7.0	7.0	7.0	7.0	7.0	52.5°	1353.6	1392.1	1419.0	1441.2	1465.8
7.0	7.0	7.0	7.0	7.0	7.0	7.0	55°	1391.0	1419.0	1443.6	1451.7	1454.1
3.5	3.5	3.5	4.7	4.7	4.7	4.7	57.5°	1396.8	1419.0	1431.9	1417.8	1396.8
2.3	2.3	3.5	3.5	3.5	3.5	3.5	60°	1383.9	1379.3	1361.7	1320.8	1275.2
3.5	3.5	3.5	3.5	3.5	3.5	3.5	62.5°	1288.1	1251.9	1207.4	1163.0	1112.8
3.5	3.5	3.5	3.5	3.5	3.5	3.5	65°	1143.2	1095.2	1045.0	1006.4	957.3
2.3	2.3	2.3	2.3	2.3	2.3	2.3	67.5°	986.5	949.1	907.0	867.3	804.2
							70°	852.1	807.7	756.3	706.0	641.7
							72.5°	721.2	667.4	607.8	541.2	474.6
							75°	571.6	516.6	453.5	388.1	329.6
							77.5°	418.5	376.4	321.4	264.2	212.7
							80°	286.4	256.0	213.9	171.8	139.1
							82.5°	183.5	164.8	137.9	112.2	98.2
							85°	121.6	111.0	97.0	85.3	84.2
							87.5°	84.2	79.5	74.8	71.3	69.0
							90°	54.9	52.6	51.4	50.3	49.1
							92.5°	40.9	37.4	36.2	33.9	32.7
							95°	30.4	28.1	28.1	26.9	23.4
							97.5°	23.4	22.2	21.0	19.9	18.7
							100°	17.5	16.4	15.2	15.2	14.0
							102.5°	16.4	16.4	15.2	14.0	14.0
							105°	14.0	14.0	12.9	12.9	12.9
							107.5°	11.7	11.7	11.7	11.7	11.7
							110°	12.9	11.7	11.7	11.7	11.7



REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

5° TILT)

CANDELA DISTRIBUTION (continued):

342.5°	345°	347.5°	350°	352.5°	355°		330°	332.5°	335°	337.5°	340°	342.5°
787.8	787.8	787.8	787.8	787.8	787.8	112.5°	11.7	11.7	11.7	11.7	11.7	10.5
798.3	799.5	799.5	799.5	799.5	799.5	115°	11.7	11.7	11.7	11.7	10.5	10.5
818.2	819.4	821.7	821.7	824.1	824.1	117.5°	11.7	11.7	11.7	10.5	11.7	11.7
848.6	854.4	858.0	862.6	866.1	868.5	120°	12.9	12.9	12.9	12.9	12.9	12.9
869.6	880.2	888.3	896.5	901.2	909.4	122.5°	12.9	12.9	12.9	12.9	12.9	12.9
870.8	883.7	891.9	900.0	903.5	908.2	125°	12.9	12.9	12.9	12.9	12.9	12.9
856.8	866.1	875.5	886.0	893.0	900.0	127.5°	14.0	14.0	14.0	14.0	14.0	12.9
846.3	852.1	861.5	870.8	873.1	879.0	130°	14.0	14.0	14.0	15.2	16.4	17.5
836.9	839.3	845.1	850.9	855.6	859.1	132.5°	16.4	16.4	16.4	17.5	17.5	18.7
838.1	834.6	836.9	838.1	842.8	847.4	135°	18.7	17.5	17.5	17.5	17.5	16.4
836.9	835.7	839.3	840.4	841.6	842.8	137.5°	17.5	17.5	17.5	17.5	18.7	17.5
847.4	845.1	849.8	852.1	850.9	850.9	140°	17.5	17.5	16.4	16.4	16.4	16.4
860.3	859.1	862.6	863.8	866.1	865.0	142.5°	16.4	16.4	16.4	16.4	15.2	15.2
876.7	877.8	882.5	884.8	884.8	886.0	145°	16.4	16.4	16.4	15.2	15.2	15.2
893.0	898.9	907.0	912.9	914.1	916.4	147.5°	16.4	15.2	15.2	14.0	14.0	12.9
925.7	938.6	949.1	956.1	959.6	970.2	150°	16.4	15.2	14.0	14.0	14.0	12.9
991.2	1018.1	1039.1	1048.5	1064.8	1082.4	152.5°	14.0	12.9	12.9	12.9	12.9	12.9
1111.6	1154.8	1192.3	1220.3	1258.9	1292.8	155°	14.0	12.9	12.9	11.7	11.7	10.5
1293.9	1362.9	1402.6	1456.4	1493.8	1520.7	157.5°	11.7	11.7	10.5	10.5	10.5	10.5
1433.0	1482.1	1519.5	1567.5	1604.9	1621.2	160°	9.4	9.4	9.4	9.4	9.4	8.2
1476.3	1504.3	1552.3	1595.5	1629.4	1634.1	162.5°	9.4	9.4	9.4	9.4	9.4	8.2
1490.3	1503.2	1546.4	1565.1	1581.5	1574.5	165°	8.2	7.0	7.0	7.0	7.0	7.0
1449.4	1455.2	1481.0	1499.7	1495.0	1486.8	167.5°	8.2	7.0	7.0	7.0	7.0	7.0
1373.4	1380.4	1387.5	1398.0	1376.9	1359.4	170°	5.8	5.8	4.7	4.7	4.7	4.7
1233.2	1218.0	1218.0	1219.1	1200.4	1179.4	172.5°	4.7	4.7	4.7	4.7	4.7	4.7
1074.2	1052.0	1045.0	1035.6	1020.4	994.7	175°	4.7	4.7	4.7	4.7	4.7	4.7
919.9	886.0	862.6	835.7	814.7	777.3	177.5°	4.7	4.7	3.5	3.5	3.5	3.5
751.6	700.2	672.1	631.2	597.3	564.6	180°	2.3	2.3	2.3	2.3	2.3	2.3
584.4	526.0	476.9	437.2	405.6	375.2							
416.1	361.2	313.3	273.5	251.3	233.8							
280.5	238.5	201.0	176.5	168.3	160.1							
178.8	156.6	139.1	130.9	132.1	134.4							
120.4	114.5	111.0	111.0	115.7	118.1							
93.5	92.3	92.3	94.7	95.8	97.0							
81.8	81.8	81.8	83.0	81.8	79.5							
67.8	66.6	64.3	63.1	58.4	57.3							
46.8	44.4	39.7	36.2	31.6	26.9							
30.4	28.1	26.9	23.4	17.5	16.4							
22.2	21.0	18.7	16.4	15.2	14.0							
16.4	15.2	15.2	15.2	14.0	12.9							
14.0	12.9	12.9	12.9	12.9	11.7							
12.9	12.9	11.7	11.7	11.7	10.5							
12.9	12.9	11.7	11.7	10.5	11.7							
10.5	10.5	10.5	10.5	10.5	9.4							
11.7	11.7	11.7	10.5	9.4	9.4							

REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

345°	347.5°	350°	352.5°	355°		357.5°	360°
10.5	10.5	9.4	9.4	8.2	0°	787.8	787.8
10.5	10.5	10.5	9.4	9.4	2.5°	800.7	800.7
11.7	11.7	10.5	9.4	8.2	5°	826.4	826.4
12.9	12.9	12.9	10.5	10.5	7.5°	870.8	872.0
12.9	12.9	14.0	14.0	12.9	10°	915.2	916.4
12.9	14.0	15.2	14.0	15.2	12.5°	911.7	912.9
12.9	14.0	16.4	17.5	17.5	15°	901.2	900.0
18.7	18.7	18.7	16.4	16.4	17.5°	881.3	884.8
17.5	17.5	18.7	17.5	17.5	20°	865.0	866.1
16.4	15.2	16.4	16.4	15.2	22.5°	852.1	854.4
17.5	16.4	16.4	15.2	15.2	25°	845.1	847.4
16.4	15.2	15.2	15.2	15.2	27.5°	849.8	850.9
15.2	15.2	15.2	14.0	14.0	30°	863.8	863.8
14.0	14.0	12.9	12.9	12.9	32.5°	889.5	891.9
12.9	12.9	11.7	11.7	10.5	35°	925.7	929.3
12.9	12.9	12.9	10.5	10.5	37.5°	978.3	983.0
11.7	11.7	11.7	11.7	12.9	40°	1088.2	1092.9
10.5	9.4	10.5	10.5	10.5	42.5°	1312.6	1322.0
10.5	10.5	9.4	8.2	8.2	45°	1533.6	1538.2
8.2	8.2	8.2	8.2	7.0	47.5°	1639.9	1643.4
8.2	8.2	8.2	8.2	8.2	50°	1638.8	1637.6
7.0	7.0	7.0	7.0	7.0	52.5°	1568.6	1565.1
7.0	7.0	5.8	5.8	5.8	55°	1482.1	1478.6
4.7	4.7	5.8	5.8	5.8	57.5°	1358.2	1355.9
4.7	4.7	4.7	4.7	4.7	60°	1170.0	1161.9
4.7	4.7	4.7	4.7	3.5	62.5°	983.0	979.5
3.5	3.5	3.5	3.5	3.5	65°	757.4	751.6
2.3	2.3	2.3	2.3	2.3	67.5°	542.4	536.5
					70°	355.3	350.7
					72.5°	222.1	222.1
					75°	156.6	154.3
					77.5°	137.9	139.1
					80°	121.6	122.7
					82.5°	99.4	98.2
					85°	81.8	81.8
					87.5°	57.3	56.1
					90°	26.9	22.2
					92.5°	16.4	15.2
					95°	12.9	12.9
					97.5°	12.9	11.7
					100°	11.7	11.7
					102.5°	11.7	12.9
					105°	11.7	10.5
					107.5°	9.4	9.4
					110°	8.2	7.0

REPORT NUMBER: P188108

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 15° TILT)

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	8.2	7.0
115°	8.2	7.0
117.5°	8.2	7.0
120°	10.5	8.2
122.5°	14.0	15.2
125°	16.4	18.7
127.5°	18.7	18.7
130°	16.4	16.4
132.5°	17.5	17.5
135°	16.4	16.4
137.5°	14.0	12.9
140°	14.0	15.2
142.5°	14.0	14.0
145°	12.9	12.9
147.5°	10.5	11.7
150°	11.7	11.7
152.5°	11.7	11.7
155°	10.5	10.5
157.5°	9.4	9.4
160°	8.2	8.2
162.5°	7.0	8.2
165°	7.0	7.0
167.5°	7.0	7.0
170°	7.0	7.0
172.5°	5.8	5.8
175°	3.5	3.5
177.5°	3.5	3.5
180°	2.3	2.3

(END OF REPORT)