

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: P188107

Luminaire Tested: **QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P92785)
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 5°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

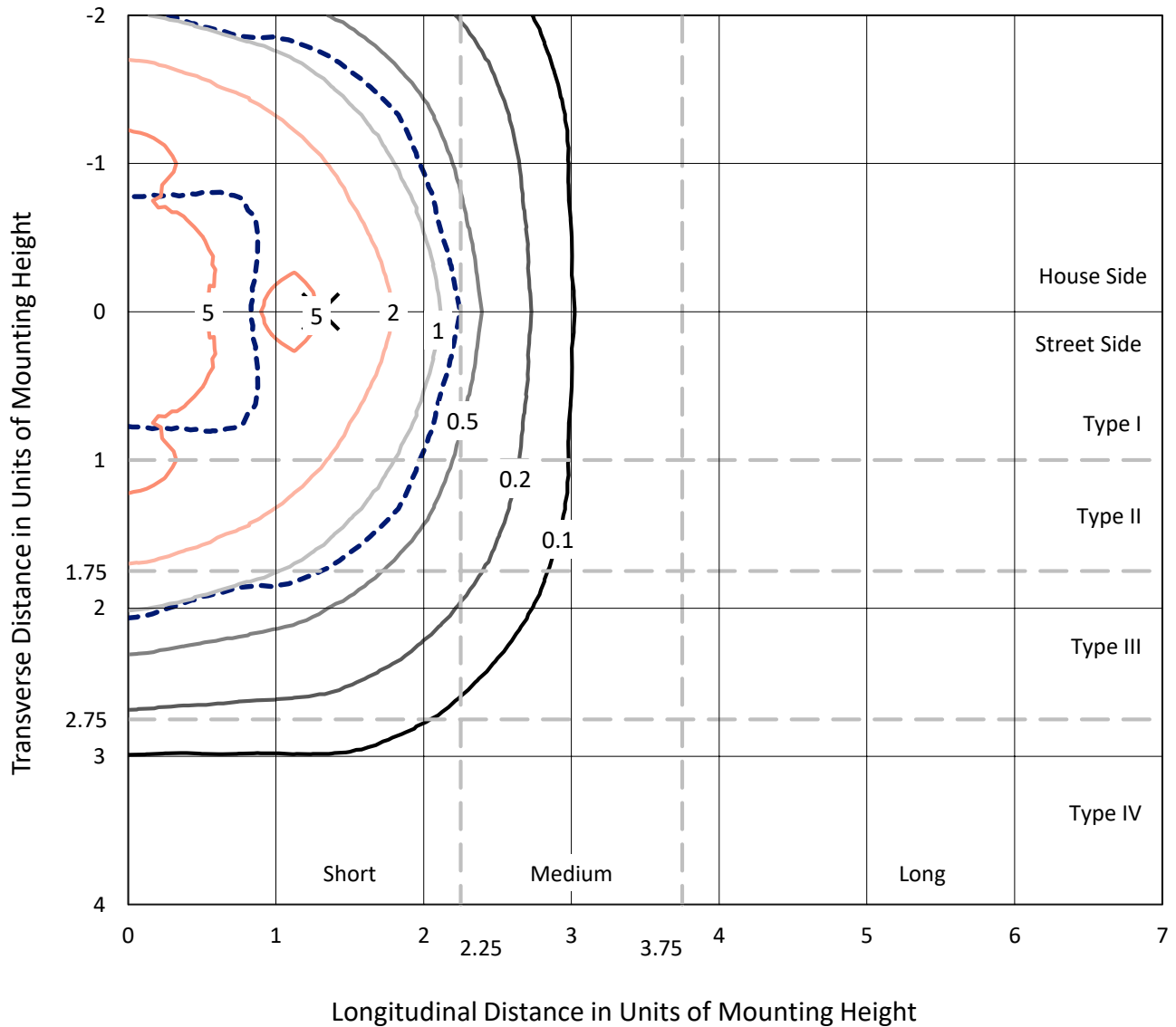


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

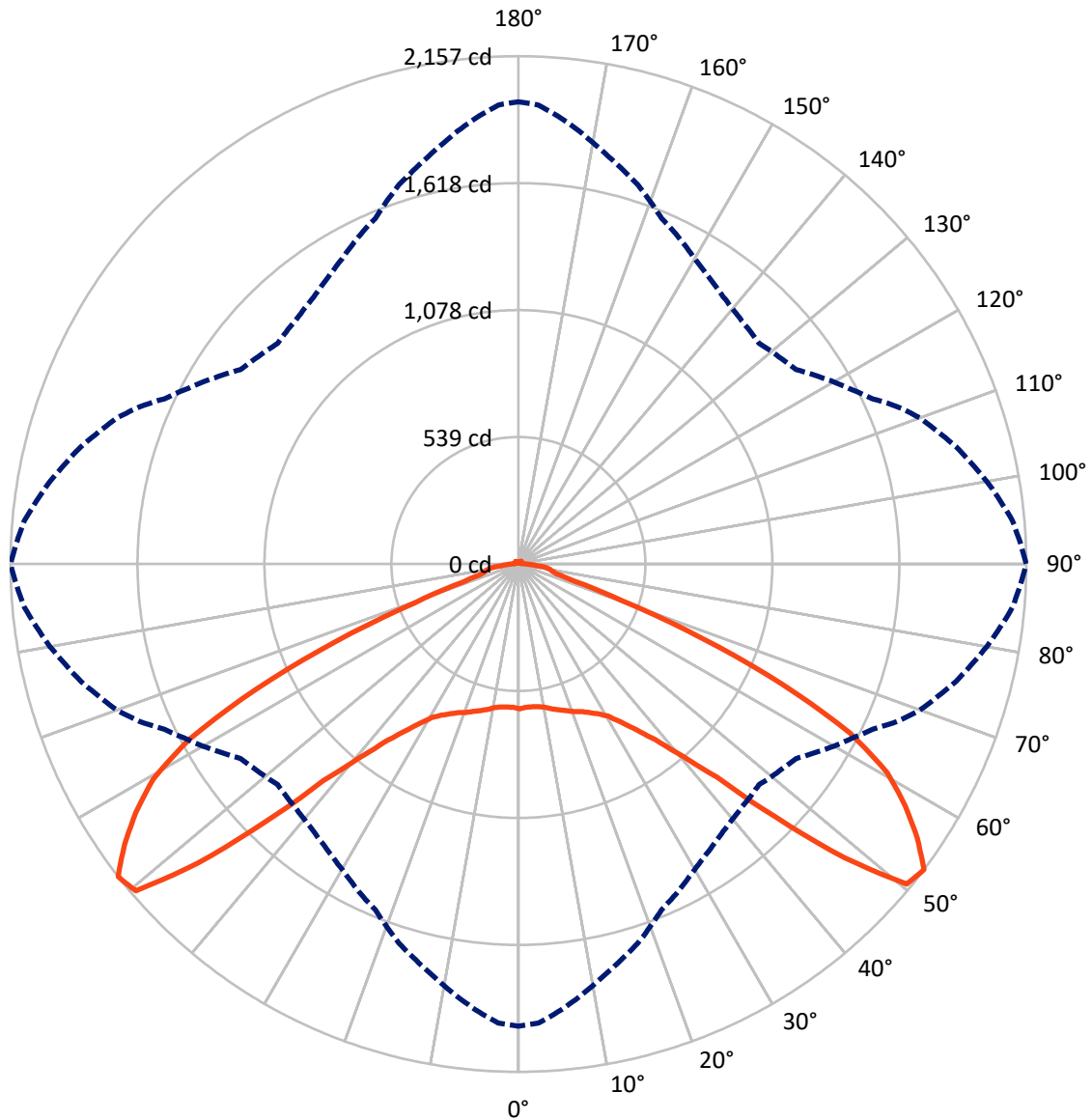


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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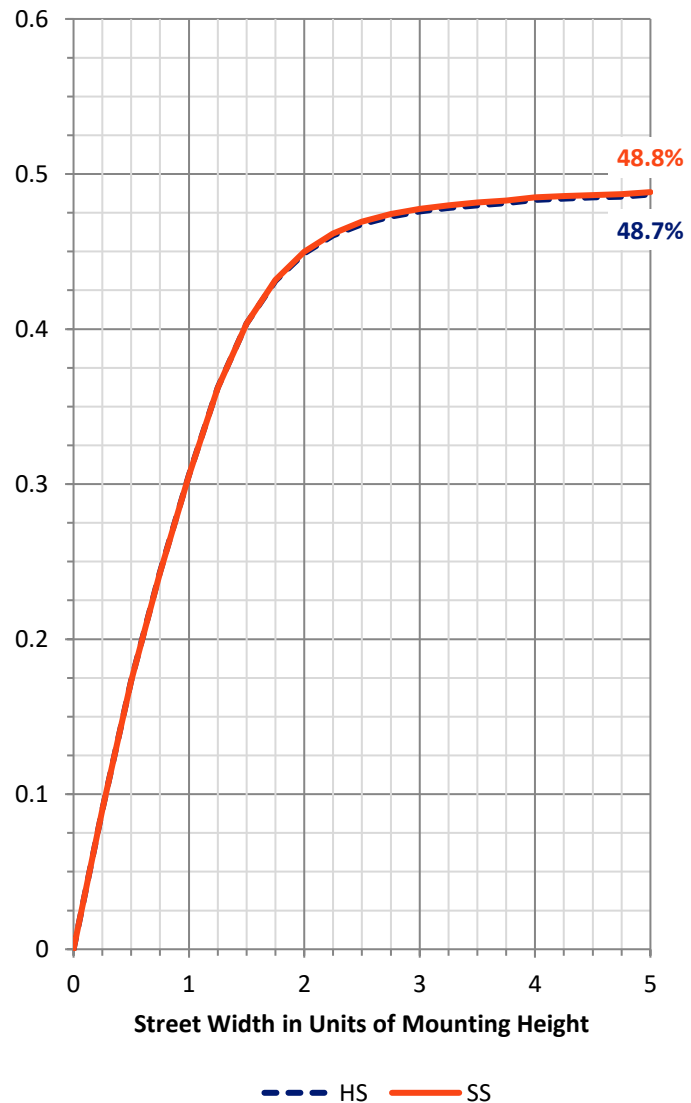
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2550.6	41.5	2592.1
	% Fixture	49.2	0.8	50.0
Street Side	Lumens	2550.7	41.5	2592.1
	% Fixture	49.2	0.8	50.0
Total	Lumens	5101.3	82.9	5184.2
	% Fixture	98.4	1.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	1.1
10°-20°	195.0	3.8
20°-30°	359.0	6.9
30°-40°	576.8	11.1
40°-50°	1003.2	19.4
50°-60°	1458.2	28.1
60°-70°	1044.3	20.1
70°-80°	314.7	6.1
80°-90°	90.7	1.7
90°-100°	23.7	0.5
100°-110°	12.7	0.2
110°-120°	10.0	0.2
120°-130°	11.0	0.2
130°-140°	11.5	0.2
140°-150°	8.5	0.2
150°-160°	4.0	0.1
160°-170°	1.3	0.0
170°-180°	0.2	0.0
0°-90°	5101.3	98.4
0°-180°	5184.2	100.0



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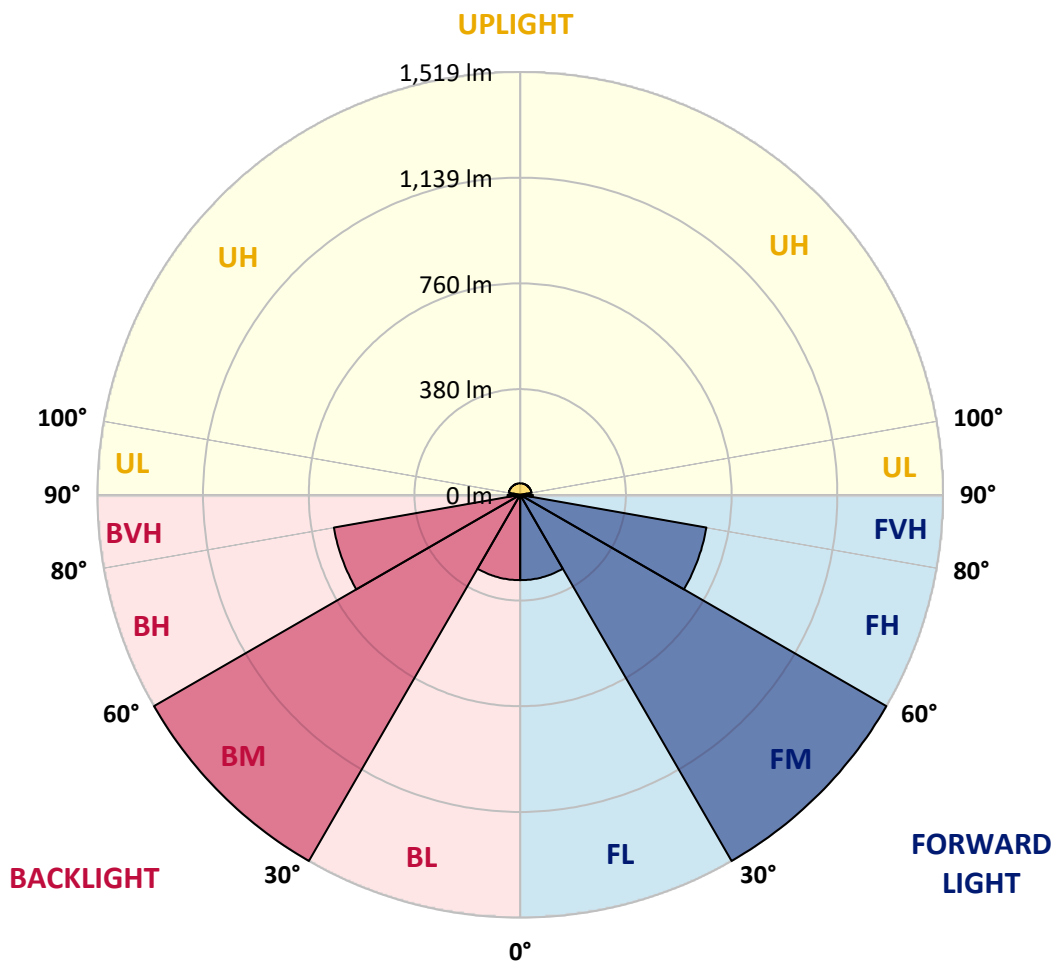
CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	306.7	5.9			
FM	(30°-60°)	1519.1	29.3			
FH	(60°-80°)	679.5	13.1			G1/1800
FVH	(80°-90°)	45.3	0.9			G1/100
BL	(0°-30°)	306.7	5.9	B1/500		
BM	(30°-60°)	1519.1	29.3	B2/2500		
BH	(60°-80°)	679.5	13.1	B2/1000		G1/1800
BVH	(80°-90°)	45.3	0.9			G1/100
UL	(90°-100°)	23.7	0.5		U2/50	
UH	(100°-180°)	41.5	0.8		U2/50	

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°	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9
2.5°	618.4	617.2	617.2	616.0	617.2	617.2	617.2	616.0	616.0	616.0	616.0
5°	625.4	623.1	620.7	621.9	620.7	620.7	619.5	619.5	618.4	618.4	619.5
7.5°	631.2	630.1	628.9	631.2	631.2	630.1	631.2	632.4	632.4	631.2	630.1
10°	649.9	649.9	649.9	649.9	649.9	651.1	653.4	655.8	655.8	655.8	655.8
12.5°	669.8	667.5	667.5	669.8	672.1	673.3	676.8	676.8	680.3	682.7	683.8
15°	680.3	681.5	682.7	683.8	686.2	688.5	692.0	694.4	700.2	706.0	711.9
17.5°	695.5	696.7	696.7	696.7	697.9	700.2	706.0	713.1	721.2	730.6	742.3
20°	714.2	715.4	713.1	713.1	715.4	714.2	720.1	731.8	741.1	751.6	763.3
22.5°	732.9	731.8	729.4	730.6	731.8	732.9	735.3	749.3	762.2	773.8	785.5
25°	754.0	751.6	749.3	751.6	754.0	756.3	758.6	770.3	783.2	796.1	806.6
27.5°	778.5	778.5	776.2	779.7	783.2	787.9	791.4	800.7	812.4	824.1	833.5
30°	812.4	812.4	811.3	812.4	817.1	821.8	824.1	832.3	847.5	859.2	869.7
32.5°	866.2	865.0	861.5	860.3	865.0	867.4	868.5	875.5	887.2	897.8	907.1
35°	941.0	936.3	932.8	928.1	927.0	925.8	922.3	923.5	929.3	935.2	943.3
37.5°	1041.5	1035.7	1027.5	1015.8	1010.0	1003.0	992.4	985.4	980.7	983.1	983.1
40°	1202.8	1192.3	1176.0	1156.1	1137.4	1119.9	1096.5	1074.3	1053.2	1040.4	1028.7
42.5°	1464.7	1442.5	1419.1	1382.9	1344.3	1305.7	1263.6	1215.7	1167.8	1136.2	1105.8
45°	1762.8	1739.4	1713.7	1670.4	1624.8	1572.2	1519.6	1443.7	1366.5	1303.4	1247.3
47.5°	1924.1	1901.9	1869.2	1829.4	1782.6	1730.0	1673.9	1609.6	1541.8	1485.7	1437.8
50°	2002.4	1988.4	1949.8	1901.9	1851.6	1792.0	1735.9	1682.1	1622.5	1574.6	1539.5
52.5°	1962.7	1951.0	1910.1	1865.6	1817.7	1772.1	1728.9	1688.0	1637.7	1588.6	1559.4
55°	1848.1	1842.3	1809.5	1766.3	1725.4	1684.5	1652.9	1628.3	1596.8	1568.7	1561.7
57.5°	1695.0	1693.8	1656.4	1623.7	1592.1	1561.7	1544.2	1519.6	1492.7	1469.4	1474.0
60°	1479.9	1482.2	1448.3	1420.3	1392.2	1364.2	1350.1	1347.8	1343.1	1334.9	1365.3
62.5°	1262.5	1259.0	1222.7	1197.0	1173.6	1151.4	1139.7	1147.9	1147.9	1146.7	1176.0
65°	978.4	976.1	944.5	930.5	923.5	916.5	921.1	936.3	950.4	962.0	992.4
67.5°	688.5	679.2	662.8	655.8	662.8	671.0	679.2	707.2	738.8	769.2	808.9
70°	420.8	417.3	415.0	420.8	439.5	459.4	476.9	502.6	535.4	569.3	606.7
72.5°	240.8	242.0	245.5	253.7	272.4	292.2	307.4	333.2	368.2	400.9	437.2
75°	159.0	160.1	161.3	167.2	176.5	185.9	195.2	213.9	244.3	270.0	301.6
77.5°	143.8	141.4	139.1	136.8	137.9	135.6	135.6	144.9	161.3	178.8	201.1
80°	127.4	125.1	122.7	118.1	115.7	112.2	109.9	111.1	115.7	122.7	134.4
82.5°	102.9	104.0	100.5	98.2	97.0	93.5	92.3	92.3	91.2	94.7	98.2
85°	84.2	83.0	81.8	81.8	80.7	80.7	78.3	79.5	81.8	81.8	84.2
87.5°	56.1	57.3	57.3	57.3	60.8	60.8	62.0	63.1	64.3	64.3	64.3
90°	22.2	25.7	25.7	29.2	33.9	35.1	38.6	39.7	40.9	39.7	39.7
92.5°	15.2	15.2	15.2	17.5	21.0	22.2	23.4	24.5	25.7	25.7	25.7
95°	12.9	12.9	12.9	14.0	16.4	17.5	16.4	17.5	17.5	18.7	18.7
97.5°	11.7	12.9	12.9	12.9	14.0	12.9	12.9	14.0	16.4	16.4	16.4
100°	11.7	11.7	11.7	11.7	12.9	11.7	11.7	12.9	12.9	12.9	12.9
102.5°	10.5	11.7	11.7	11.7	12.9	11.7	11.7	12.9	14.0	14.0	14.0
105°	10.5	10.5	10.5	10.5	11.7	12.9	12.9	12.9	12.9	12.9	12.9
107.5°	9.4	8.2	8.2	9.4	9.4	9.4	10.5	10.5	11.7	11.7	11.7
110°	7.0	7.0	8.2	8.2	10.5	10.5	10.5	11.7	11.7	11.7	11.7



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CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	7.0	7.0	8.2	8.2	9.4	9.4	9.4	9.4	10.5	10.5	10.5
115°	7.0	7.0	7.0	8.2	9.4	9.4	10.5	10.5	10.5	10.5	10.5
117.5°	7.0	7.0	7.0	9.4	9.4	10.5	11.7	11.7	11.7	10.5	10.5
120°	8.2	9.4	9.4	10.5	11.7	11.7	12.9	12.9	12.9	11.7	11.7
122.5°	12.9	12.9	11.7	12.9	12.9	11.7	12.9	12.9	12.9	11.7	11.7
125°	16.4	15.2	14.0	14.0	14.0	12.9	11.7	12.9	12.9	11.7	11.7
127.5°	16.4	16.4	17.5	16.4	15.2	12.9	12.9	12.9	14.0	14.0	14.0
130°	14.0	14.0	15.2	15.2	16.4	17.5	17.5	16.4	16.4	15.2	15.2
132.5°	15.2	15.2	16.4	16.4	16.4	15.2	16.4	16.4	15.2	16.4	15.2
135°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	15.2	15.2	15.2	16.4
137.5°	12.9	12.9	12.9	12.9	14.0	15.2	16.4	16.4	16.4	15.2	16.4
140°	12.9	12.9	12.9	12.9	12.9	14.0	14.0	15.2	14.0	15.2	16.4
142.5°	11.7	11.7	11.7	11.7	11.7	12.9	12.9	14.0	14.0	14.0	15.2
145°	10.5	10.5	10.5	10.5	10.5	11.7	11.7	11.7	12.9	12.9	12.9
147.5°	9.4	9.4	9.4	9.4	9.4	9.4	10.5	10.5	11.7	11.7	12.9
150°	9.4	9.4	8.2	8.2	9.4	9.4	10.5	10.5	10.5	11.7	11.7
152.5°	9.4	9.4	9.4	9.4	9.4	8.2	9.4	9.4	8.2	9.4	9.4
155°	8.2	8.2	8.2	8.2	8.2	7.0	5.8	5.8	8.2	8.2	8.2
157.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	5.8	7.0	7.0	7.0
160°	5.8	5.8	5.8	5.8	5.8	5.8	4.7	4.7	4.7	4.7	4.7
162.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
165°	4.7	3.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	3.5
167.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
170°	4.7	4.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
172.5°	3.5	3.5	3.5	3.5	3.5	2.3	2.3	2.3	2.3	2.3	2.3
175°	1.2	1.2	1.2	1.2	2.3	2.3	1.2	1.2	1.2	1.2	1.2
177.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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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CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9
2.5°	613.7	614.9	614.9	613.7	613.7	612.5	613.7	612.5	612.5	612.5	612.5
5°	618.4	618.4	617.2	617.2	617.2	614.9	614.9	613.7	613.7	613.7	612.5
7.5°	630.1	628.9	627.7	626.6	625.4	625.4	624.2	624.2	624.2	623.1	621.9
10°	654.6	654.6	653.4	652.3	652.3	651.1	648.8	646.4	642.9	640.6	637.1
12.5°	685.0	687.3	688.5	688.5	687.3	688.5	686.2	680.3	674.5	669.8	662.8
15°	716.6	722.4	727.1	731.8	729.4	729.4	725.9	721.2	713.1	703.7	692.0
17.5°	751.6	761.0	770.3	776.2	771.5	766.8	761.0	756.3	745.8	734.1	721.2
20°	776.2	787.9	797.2	807.7	803.1	799.6	793.7	786.7	777.4	763.3	749.3
22.5°	796.1	806.6	817.1	825.3	826.4	826.4	822.9	819.4	807.7	792.5	778.5
25°	817.1	827.6	835.8	844.0	848.7	848.7	844.0	842.8	831.1	819.4	804.2
27.5°	845.2	853.3	860.3	869.7	872.0	870.9	866.2	862.7	853.3	842.8	830.0
30°	879.0	886.1	891.9	896.6	898.9	898.9	893.1	887.2	876.7	866.2	853.3
32.5°	915.3	922.3	922.3	924.6	923.5	922.3	914.1	907.1	897.8	887.2	879.0
35°	948.0	951.5	946.8	942.2	941.0	938.7	932.8	924.6	916.5	907.1	902.4
37.5°	983.1	979.6	967.9	957.4	952.7	948.0	943.3	939.8	934.0	925.8	925.8
40°	1019.3	1008.8	993.6	978.4	970.2	962.0	957.4	949.2	945.7	943.3	944.5
42.5°	1078.9	1050.9	1025.2	1001.8	990.1	979.6	970.2	964.4	963.2	963.2	964.4
45°	1193.5	1138.6	1095.3	1057.9	1038.0	1019.3	1006.5	992.4	992.4	995.9	1001.8
47.5°	1364.2	1291.7	1229.7	1180.6	1144.4	1115.2	1090.6	1068.4	1069.6	1077.8	1089.5
50°	1492.7	1441.3	1398.1	1363.0	1316.2	1277.7	1248.4	1216.9	1214.5	1226.2	1240.3
52.5°	1527.8	1497.4	1471.7	1449.5	1429.6	1414.4	1402.7	1394.6	1386.4	1403.9	1420.3
55°	1550.0	1534.8	1515.0	1495.1	1488.1	1488.1	1493.9	1499.8	1509.1	1530.2	1554.7
57.5°	1484.6	1490.4	1489.2	1481.1	1493.9	1497.4	1504.4	1516.1	1526.6	1540.7	1555.9
60°	1381.7	1391.0	1394.6	1394.6	1414.4	1415.6	1415.6	1419.1	1428.5	1435.5	1441.3
62.5°	1214.5	1239.1	1255.5	1271.8	1287.0	1283.5	1281.2	1277.7	1282.3	1285.8	1288.2
65°	1035.7	1060.2	1076.6	1093.0	1109.3	1115.2	1119.9	1124.5	1133.9	1140.9	1149.1
67.5°	849.8	872.0	884.9	896.6	922.3	935.2	944.5	959.7	962.0	966.7	972.6
70°	648.8	678.0	693.2	708.4	731.8	738.8	745.8	750.5	748.1	744.6	739.9
72.5°	471.1	492.1	506.2	521.4	538.9	540.1	541.2	542.4	538.9	529.5	520.2
75°	326.1	341.3	356.5	369.4	377.6	376.4	371.7	365.9	361.2	355.4	346.0
77.5°	217.4	229.1	239.6	251.3	256.0	252.5	246.6	239.6	236.1	232.6	225.6
80°	142.6	149.6	156.6	164.8	167.2	167.2	162.5	157.8	157.8	155.5	152.0
82.5°	102.9	105.2	108.7	112.2	114.6	115.7	114.6	113.4	113.4	113.4	109.9
85°	84.2	85.3	86.5	85.3	87.7	88.8	88.8	87.7	86.5	84.2	81.8
87.5°	63.1	65.5	63.1	63.1	65.5	65.5	67.8	66.6	64.3	64.3	62.0
90°	40.9	40.9	39.7	38.6	39.7	40.9	42.1	40.9	42.1	43.3	43.3
92.5°	26.9	26.9	25.7	25.7	25.7	28.1	25.7	26.9	28.1	29.2	30.4
95°	18.7	21.0	19.9	19.9	21.0	21.0	18.7	19.9	19.9	21.0	19.9
97.5°	16.4	17.5	16.4	16.4	17.5	17.5	15.2	15.2	15.2	17.5	17.5
100°	12.9	14.0	11.7	11.7	11.7	12.9	12.9	12.9	12.9	16.4	15.2
102.5°	14.0	14.0	11.7	11.7	12.9	12.9	10.5	10.5	10.5	12.9	12.9
105°	12.9	12.9	11.7	10.5	10.5	10.5	9.4	9.4	10.5	11.7	11.7
107.5°	11.7	11.7	11.7	11.7	11.7	11.7	10.5	9.4	9.4	11.7	11.7
110°	11.7	12.9	12.9	12.9	12.9	12.9	9.4	9.4	9.4	10.5	11.7



REPORT NUMBER: P188107

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°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	10.5	10.5	10.5	9.4	9.4	9.4	10.5	11.7
115°	11.7	11.7	11.7	10.5	10.5	10.5	9.4	9.4	9.4	10.5	11.7
117.5°	11.7	11.7	11.7	11.7	11.7	11.7	10.5	9.4	9.4	9.4	10.5
120°	12.9	12.9	11.7	10.5	10.5	10.5	9.4	9.4	9.4	10.5	11.7
122.5°	12.9	12.9	12.9	11.7	11.7	11.7	9.4	9.4	9.4	9.4	10.5
125°	12.9	12.9	12.9	11.7	11.7	11.7	10.5	10.5	10.5	10.5	11.7
127.5°	15.2	15.2	15.2	14.0	14.0	14.0	12.9	12.9	12.9	12.9	12.9
130°	16.4	16.4	16.4	15.2	15.2	15.2	12.9	12.9	11.7	11.7	12.9
132.5°	16.4	16.4	15.2	15.2	14.0	14.0	12.9	14.0	14.0	14.0	12.9
135°	16.4	16.4	15.2	16.4	16.4	16.4	15.2	15.2	15.2	14.0	14.0
137.5°	16.4	16.4	16.4	16.4	16.4	17.5	15.2	15.2	15.2	16.4	15.2
140°	17.5	17.5	16.4	17.5	17.5	17.5	16.4	17.5	17.5	16.4	17.5
142.5°	15.2	15.2	14.0	14.0	15.2	16.4	15.2	17.5	17.5	17.5	16.4
145°	14.0	14.0	14.0	15.2	15.2	16.4	15.2	16.4	17.5	17.5	15.2
147.5°	12.9	14.0	14.0	15.2	15.2	15.2	12.9	14.0	14.0	14.0	12.9
150°	11.7	12.9	12.9	12.9	12.9	12.9	12.9	12.9	14.0	14.0	12.9
152.5°	9.4	10.5	11.7	11.7	12.9	12.9	10.5	10.5	11.7	11.7	10.5
155°	8.2	8.2	8.2	8.2	8.2	9.4	10.5	10.5	10.5	10.5	8.2
157.5°	7.0	8.2	8.2	8.2	8.2	8.2	7.0	8.2	8.2	8.2	7.0
160°	4.7	5.8	4.7	4.7	4.7	5.8	5.8	5.8	5.8	5.8	5.8
162.5°	5.8	5.8	4.7	4.7	4.7	4.7	3.5	4.7	4.7	4.7	4.7
165°	3.5	3.5	2.3	2.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5
167.5°	3.5	3.5	2.3	2.3	2.3	2.3	3.5	3.5	3.5	3.5	3.5
170°	3.5	3.5	2.3	2.3	2.3	2.3	1.2	1.2	1.2	2.3	2.3
172.5°	2.3	2.3	1.2	1.2	2.3	2.3	2.3	2.3	2.3	3.5	2.3
175°	2.3	2.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
177.5°	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
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: P188107

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9
2.5°	611.4	611.4	611.4	611.4	610.2	610.2	610.2	610.2	609.0	609.0	609.0
5°	611.4	612.5	612.5	611.4	610.2	611.4	610.2	609.0	607.9	607.9	610.2
7.5°	619.5	619.5	618.4	617.2	616.0	616.0	613.7	611.4	610.2	611.4	610.2
10°	632.4	630.1	626.6	623.1	619.5	619.5	618.4	619.5	618.4	618.4	620.7
12.5°	655.8	651.1	647.6	639.4	633.6	630.1	628.9	627.7	626.6	627.7	626.6
15°	681.5	673.3	667.5	658.1	648.8	645.3	640.6	639.4	637.1	639.4	639.4
17.5°	708.4	697.9	688.5	676.8	667.5	661.6	654.6	649.9	649.9	651.1	652.3
20°	734.1	723.6	711.9	699.0	685.0	679.2	672.1	667.5	665.1	666.3	667.5
22.5°	763.3	750.5	736.4	723.6	707.2	700.2	692.0	687.3	682.7	682.7	682.7
25°	790.2	776.2	761.0	747.0	731.8	722.4	713.1	706.0	702.5	702.5	701.4
27.5°	817.1	803.1	787.9	773.8	758.6	749.3	738.8	730.6	725.9	725.9	723.6
30°	842.8	830.0	817.1	805.4	792.5	784.4	772.7	764.5	758.6	758.6	756.3
32.5°	874.4	865.0	854.5	844.0	833.5	827.6	819.4	813.6	808.9	810.1	808.9
35°	902.4	896.6	890.7	883.7	879.0	877.9	872.0	868.5	866.2	867.4	868.5
37.5°	927.0	925.8	923.5	921.1	917.6	921.1	922.3	924.6	927.0	931.7	935.2
40°	949.2	950.4	953.9	953.9	956.2	967.9	979.6	988.9	997.1	1013.5	1029.8
42.5°	970.2	979.6	988.9	998.3	1007.6	1033.4	1057.9	1082.4	1107.0	1135.0	1161.9
45°	1008.8	1029.8	1055.6	1077.8	1100.0	1147.9	1202.8	1254.3	1308.1	1357.2	1401.6
47.5°	1102.3	1142.1	1190.0	1236.7	1280.0	1353.6	1432.0	1500.9	1569.9	1630.7	1686.8
50°	1257.8	1301.0	1356.0	1410.9	1464.7	1553.5	1647.0	1738.2	1829.4	1901.9	1960.3
52.5°	1440.1	1491.6	1546.5	1600.3	1659.9	1744.1	1814.2	1868.0	1924.1	1970.8	2019.9
55°	1583.9	1614.3	1634.2	1654.1	1675.1	1724.2	1769.8	1802.5	1835.3	1875.0	1919.4
57.5°	1572.2	1573.4	1576.9	1578.1	1579.3	1615.5	1654.1	1683.3	1711.3	1749.9	1789.7
60°	1451.8	1444.8	1446.0	1446.0	1444.8	1475.2	1507.9	1539.5	1569.9	1608.5	1651.7
62.5°	1290.5	1284.7	1291.7	1297.5	1302.2	1327.9	1356.0	1379.4	1402.7	1429.6	1461.2
65°	1154.9	1145.6	1140.9	1138.6	1137.4	1139.7	1138.6	1130.4	1122.2	1135.0	1152.6
67.5°	977.2	956.2	935.2	911.8	888.4	868.5	849.8	825.3	799.6	797.2	801.9
70°	735.3	710.7	686.2	659.3	631.2	603.2	576.3	545.9	514.3	498.0	483.9
72.5°	507.3	481.6	462.9	439.5	417.3	391.6	363.5	330.8	296.9	284.1	274.7
75°	335.5	313.3	299.3	277.0	258.3	238.5	218.6	201.1	183.5	176.5	173.0
77.5°	217.4	205.7	195.2	183.5	171.8	159.0	144.9	136.8	128.6	133.3	137.9
80°	147.3	142.6	137.9	133.3	128.6	122.7	116.9	116.9	114.6	118.1	123.9
82.5°	107.5	106.4	106.4	105.2	104.0	102.9	102.9	101.7	100.5	102.9	106.4
85°	79.5	79.5	80.7	81.8	80.7	79.5	79.5	79.5	76.0	76.0	74.8
87.5°	59.6	59.6	62.0	62.0	62.0	60.8	59.6	57.3	53.8	52.6	51.4
90°	43.3	43.3	44.4	44.4	44.4	44.4	45.6	43.3	43.3	42.1	39.7
92.5°	30.4	30.4	31.6	30.4	30.4	30.4	30.4	30.4	29.2	28.1	28.1
95°	19.9	21.0	22.2	21.0	21.0	22.2	22.2	22.2	21.0	21.0	19.9
97.5°	17.5	17.5	18.7	16.4	16.4	16.4	16.4	16.4	15.2	15.2	15.2
100°	15.2	15.2	16.4	15.2	15.2	15.2	15.2	14.0	12.9	12.9	14.0
102.5°	12.9	12.9	14.0	14.0	14.0	14.0	14.0	12.9	11.7	11.7	14.0
105°	11.7	11.7	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	11.7
107.5°	11.7	11.7	14.0	14.0	14.0	14.0	14.0	12.9	11.7	11.7	11.7
110°	11.7	11.7	12.9	11.7	11.7	11.7	11.7	11.7	11.7	11.7	10.5



REPORT NUMBER: P188107
 CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°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°	11.7	11.7	11.7	10.5	10.5	10.5	10.5	9.4	9.4	9.4	8.2	0°
115°	11.7	11.7	11.7	10.5	10.5	10.5	10.5	10.5	9.4	9.4	9.4	2.5°
117.5°	10.5	10.5	11.7	10.5	10.5	10.5	10.5	9.4	8.2	8.2	8.2	5°
120°	11.7	11.7	11.7	10.5	10.5	10.5	10.5	10.5	9.4	9.4	9.4	7.5°
122.5°	10.5	10.5	11.7	10.5	10.5	11.7	10.5	10.5	10.5	10.5	9.4	10°
125°	11.7	12.9	14.0	12.9	12.9	12.9	12.9	12.9	11.7	11.7	11.7	12.5°
127.5°	12.9	12.9	14.0	12.9	12.9	14.0	12.9	12.9	11.7	11.7	12.9	15°
130°	12.9	12.9	12.9	12.9	11.7	12.9	12.9	12.9	11.7	12.9	14.0	17.5°
132.5°	12.9	14.0	14.0	14.0	14.0	14.0	12.9	11.7	12.9	14.0	15.2	20°
135°	12.9	12.9	14.0	12.9	14.0	15.2	16.4	15.2	15.2	15.2	15.2	22.5°
137.5°	15.2	15.2	14.0	15.2	15.2	15.2	15.2	15.2	14.0	14.0	15.2	25°
140°	15.2	16.4	16.4	15.2	15.2	15.2	14.0	14.0	12.9	12.9	14.0	27.5°
142.5°	16.4	17.5	16.4	16.4	14.0	15.2	15.2	14.0	12.9	12.9	14.0	30°
145°	16.4	17.5	16.4	16.4	14.0	14.0	12.9	12.9	12.9	12.9	12.9	32.5°
147.5°	14.0	15.2	15.2	14.0	14.0	12.9	11.7	11.7	11.7	11.7	11.7	35°
150°	12.9	12.9	12.9	11.7	11.7	11.7	10.5	10.5	10.5	10.5	10.5	37.5°
152.5°	10.5	10.5	10.5	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	40°
155°	9.4	9.4	9.4	7.0	8.2	8.2	8.2	8.2	8.2	8.2	7.0	42.5°
157.5°	7.0	7.0	7.0	5.8	5.8	7.0	7.0	7.0	7.0	7.0	7.0	45°
160°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	47.5°
162.5°	4.7	4.7	4.7	4.7	4.7	5.8	5.8	5.8	5.8	5.8	5.8	50°
165°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7	4.7	4.7	5.8	52.5°
167.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7	4.7	4.7	4.7	55°
170°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	3.5	57.5°
172.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.7	60°
175°	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.2	2.3	62.5°
177.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	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°
												110°

NUMBER: P188107
 NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°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°
614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	112.5°	8.2
610.2	609.0	610.2	609.0	610.2	609.0	610.2	609.0	609.0	609.0	610.2	115°	7.0
609.0	609.0	609.0	609.0	609.0	609.0	609.0	610.2	607.9	607.9	609.0	117.5°	7.0
610.2	610.2	611.4	611.4	611.4	610.2	610.2	610.2	611.4	610.2	611.4	120°	7.0
621.9	619.5	620.7	618.4	620.7	619.5	621.9	620.7	618.4	618.4	619.5	122.5°	8.2
628.9	630.1	631.2	631.2	631.2	630.1	628.9	626.6	627.7	626.6	627.7	125°	9.4
640.6	641.8	642.9	642.9	642.9	641.8	640.6	639.4	639.4	637.1	639.4	127.5°	11.7
653.4	654.6	655.8	654.6	655.8	654.6	653.4	652.3	651.1	649.9	649.9	130°	12.9
667.5	668.6	669.8	668.6	669.8	668.6	667.5	667.5	666.3	665.1	667.5	132.5°	15.2
681.5	681.5	681.5	680.3	681.5	681.5	681.5	682.7	682.7	682.7	687.3	135°	14.0
702.5	700.2	701.4	699.0	701.4	700.2	702.5	701.4	702.5	702.5	706.0	137.5°	15.2
722.4	718.9	721.2	720.1	721.2	718.9	722.4	723.6	725.9	725.9	730.6	140°	14.0
755.1	751.6	751.6	749.3	751.6	751.6	755.1	756.3	758.6	758.6	764.5	142.5°	12.9
805.4	804.2	804.2	800.7	804.2	804.2	805.4	808.9	810.1	808.9	813.6	145°	12.9
869.7	869.7	868.5	865.0	868.5	869.7	869.7	868.5	867.4	866.2	868.5	147.5°	12.9
939.8	944.5	946.8	946.8	946.8	944.5	939.8	935.2	931.7	927.0	924.6	150°	11.7
1046.2	1062.6	1067.3	1070.8	1067.3	1062.6	1046.2	1029.8	1013.5	997.1	988.9	152.5°	9.4
1188.8	1216.9	1227.4	1236.7	1227.4	1216.9	1188.8	1161.9	1135.0	1107.0	1082.4	155°	7.0
1449.5	1498.6	1519.6	1537.2	1519.6	1498.6	1449.5	1401.6	1357.2	1308.1	1254.3	157.5°	7.0
1751.1	1814.2	1841.1	1864.5	1841.1	1814.2	1751.1	1686.8	1630.7	1569.9	1500.9	160°	5.8
2022.3	2084.2	2111.1	2136.8	2111.1	2084.2	2022.3	1960.3	1901.9	1829.4	1738.2	162.5°	5.8
2063.2	2106.4	2132.2	2156.7	2132.2	2106.4	2063.2	2019.9	1970.8	1924.1	1868.0	165°	5.8
1958.0	1997.7	2027.0	2055.0	2027.0	1997.7	1958.0	1919.4	1875.0	1835.3	1802.5	167.5°	4.7
1828.2	1864.5	1900.7	1936.9	1900.7	1864.5	1828.2	1789.7	1749.9	1711.3	1683.3	170°	3.5
1689.1	1730.0	1765.1	1800.2	1765.1	1730.0	1689.1	1651.7	1608.5	1569.9	1539.5	172.5°	4.7
1483.4	1506.8	1544.2	1580.4	1544.2	1506.8	1483.4	1461.2	1429.6	1402.7	1379.4	175°	2.3
1164.3	1176.0	1205.2	1233.2	1205.2	1176.0	1164.3	1152.6	1135.0	1122.2	1130.4	177.5°	2.3
798.4	798.4	819.4	839.3	819.4	798.4	798.4	801.9	797.2	799.6	825.3	180°	0.0
468.7	451.2	460.6	469.9	460.6	451.2	468.7	483.9	498.0	514.3	545.9		
260.7	250.2	251.3	249.0	251.3	250.2	260.7	274.7	284.1	296.9	330.8		
167.2	161.3	164.8	166.0	164.8	161.3	167.2	173.0	176.5	183.5	201.1		
140.3	143.8	147.3	147.3	147.3	143.8	140.3	137.9	133.3	128.6	136.8		
126.2	129.8	134.4	135.6	134.4	129.8	126.2	123.9	118.1	114.6	116.9		
108.7	109.9	112.2	114.6	112.2	109.9	108.7	106.4	102.9	100.5	101.7		
74.8	72.5	74.8	73.6	74.8	72.5	74.8	74.8	76.0	76.0	79.5		
47.9	46.8	47.9	47.9	47.9	46.8	47.9	51.4	52.6	53.8	57.3		
36.2	33.9	33.9	32.7	33.9	33.9	36.2	39.7	42.1	43.3	43.3		
25.7	24.5	24.5	23.4	24.5	24.5	25.7	28.1	28.1	29.2	30.4		
17.5	16.4	16.4	16.4	16.4	16.4	17.5	19.9	21.0	21.0	22.2		
12.9	12.9	12.9	12.9	12.9	12.9	12.9	15.2	15.2	15.2	16.4		
12.9	12.9	12.9	12.9	12.9	12.9	12.9	14.0	12.9	12.9	14.0		
14.0	14.0	14.0	11.7	14.0	14.0	14.0	14.0	11.7	11.7	12.9		
11.7	10.5	11.7	11.7	11.7	10.5	11.7	11.7	12.9	12.9	12.9		
9.4	9.4	9.4	8.2	9.4	9.4	9.4	11.7	11.7	11.7	12.9		
9.4	8.2	8.2	8.2	8.2	8.2	9.4	10.5	11.7	11.7	11.7		

'188107
 QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

REPORT NUMBER: P188107
 CATALOG NUMBER: QDCAST1B

TION (continued):

CANDELA DISTRIBUTION (con

85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°		110°	112.5°
7.0	7.0	7.0	7.0	7.0	8.2	8.2	9.4	9.4	9.4	0°	614.9	614.9
7.0	7.0	7.0	7.0	7.0	7.0	9.4	9.4	9.4	10.5	2.5°	610.2	610.2
7.0	7.0	7.0	7.0	7.0	7.0	8.2	8.2	8.2	9.4	5°	610.2	611.4
7.0	7.0	7.0	7.0	7.0	7.0	9.4	9.4	9.4	10.5	7.5°	613.7	616.0
7.0	7.0	7.0	7.0	7.0	8.2	9.4	10.5	10.5	10.5	10°	618.4	619.5
9.4	9.4	8.2	9.4	9.4	9.4	11.7	11.7	11.7	12.9	12.5°	628.9	630.1
11.7	12.9	12.9	12.9	11.7	11.7	12.9	11.7	11.7	12.9	15°	640.6	645.3
14.0	15.2	16.4	15.2	14.0	12.9	14.0	12.9	11.7	12.9	17.5°	654.6	661.6
16.4	16.4	16.4	16.4	16.4	15.2	15.2	14.0	12.9	11.7	20°	672.1	679.2
14.0	14.0	14.0	14.0	14.0	14.0	15.2	15.2	15.2	15.2	22.5°	692.0	700.2
15.2	15.2	15.2	15.2	15.2	15.2	15.2	14.0	14.0	15.2	25°	713.1	722.4
14.0	14.0	14.0	14.0	14.0	14.0	14.0	12.9	12.9	14.0	27.5°	738.8	749.3
12.9	12.9	12.9	12.9	12.9	12.9	14.0	12.9	12.9	14.0	30°	772.7	784.4
12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	32.5°	819.4	827.6
12.9	12.9	12.9	12.9	12.9	12.9	11.7	11.7	11.7	11.7	35°	872.0	877.9
11.7	11.7	11.7	11.7	11.7	11.7	10.5	10.5	10.5	10.5	37.5°	922.3	921.1
9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	40°	979.6	967.9
7.0	9.4	9.4	9.4	7.0	7.0	7.0	8.2	8.2	8.2	42.5°	1057.9	1033.4
7.0	8.2	8.2	8.2	7.0	7.0	7.0	7.0	7.0	7.0	45°	1202.8	1147.9
5.8	5.8	4.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	47.5°	1432.0	1353.6
5.8	7.0	7.0	7.0	5.8	5.8	5.8	5.8	5.8	5.8	50°	1647.0	1553.5
5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.7	4.7	4.7	52.5°	1814.2	1744.1
4.7	5.8	5.8	5.8	4.7	4.7	4.7	4.7	4.7	4.7	55°	1769.8	1724.2
3.5	4.7	4.7	4.7	3.5	3.5	3.5	3.5	3.5	2.3	57.5°	1654.1	1615.5
4.7	4.7	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3	60°	1507.9	1475.2
3.5	3.5	3.5	3.5	3.5	2.3	2.3	1.2	2.3	2.3	62.5°	1356.0	1327.9
2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.2	1.2	1.2	65°	1138.6	1139.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	849.8	868.5
										70°	576.3	603.2
										72.5°	363.5	391.6
										75°	218.6	238.5
										77.5°	144.9	159.0
										80°	116.9	122.7
										82.5°	102.9	102.9
										85°	79.5	79.5
										87.5°	59.6	60.8
										90°	45.6	44.4
										92.5°	30.4	30.4
										95°	22.2	22.2
										97.5°	16.4	16.4
										100°	15.2	15.2
										102.5°	14.0	14.0
										105°	12.9	12.9
										107.5°	14.0	14.0
										110°	11.7	11.7



REPORT NUMBER: P188107

CATALOG NUMBER: QDCAST1B (2PANEL)

B (2PANELS 0°TILT; 2PANELS 5°TILT)

<u>tinued):</u>										<u>CANDELA DISTRIBUTION (continued):</u>		
115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°		110°	112.5°	115°
614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	112.5°	10.5	10.5	10.5
610.2	611.4	611.4	611.4	611.4	612.5	612.5	612.5	612.5	115°	10.5	10.5	10.5
611.4	611.4	613.7	612.5	612.5	612.5	613.7	613.7	613.7	117.5°	10.5	10.5	10.5
616.0	617.2	618.4	619.5	619.5	621.9	623.1	624.2	624.2	120°	10.5	10.5	10.5
619.5	623.1	626.6	630.1	632.4	637.1	640.6	642.9	646.4	122.5°	10.5	11.7	10.5
633.6	639.4	647.6	651.1	655.8	662.8	669.8	674.5	680.3	125°	12.9	12.9	12.9
648.8	658.1	667.5	673.3	681.5	692.0	703.7	713.1	721.2	127.5°	12.9	14.0	12.9
667.5	676.8	688.5	697.9	708.4	721.2	734.1	745.8	756.3	130°	12.9	12.9	11.7
685.0	699.0	711.9	723.6	734.1	749.3	763.3	777.4	786.7	132.5°	12.9	14.0	14.0
707.2	723.6	736.4	750.5	763.3	778.5	792.5	807.7	819.4	135°	16.4	15.2	14.0
731.8	747.0	761.0	776.2	790.2	804.2	819.4	831.1	842.8	137.5°	15.2	15.2	15.2
758.6	773.8	787.9	803.1	817.1	830.0	842.8	853.3	862.7	140°	14.0	15.2	15.2
792.5	805.4	817.1	830.0	842.8	853.3	866.2	876.7	887.2	142.5°	15.2	15.2	14.0
833.5	844.0	854.5	865.0	874.4	879.0	887.2	897.8	907.1	145°	12.9	14.0	14.0
879.0	883.7	890.7	896.6	902.4	902.4	907.1	916.5	924.6	147.5°	11.7	12.9	14.0
917.6	921.1	923.5	925.8	927.0	925.8	925.8	934.0	939.8	150°	10.5	11.7	11.7
956.2	953.9	953.9	950.4	949.2	944.5	943.3	945.7	949.2	152.5°	9.4	9.4	9.4
1007.6	998.3	988.9	979.6	970.2	964.4	963.2	963.2	964.4	155°	8.2	8.2	8.2
1100.0	1077.8	1055.6	1029.8	1008.8	1001.8	995.9	992.4	992.4	157.5°	7.0	7.0	5.8
1280.0	1236.7	1190.0	1142.1	1102.3	1089.5	1077.8	1069.6	1068.4	160°	5.8	5.8	5.8
1464.7	1410.9	1356.0	1301.0	1257.8	1240.3	1226.2	1214.5	1216.9	162.5°	5.8	5.8	4.7
1659.9	1600.3	1546.5	1491.6	1440.1	1420.3	1403.9	1386.4	1394.6	165°	3.5	3.5	3.5
1675.1	1654.1	1634.2	1614.3	1583.9	1554.7	1530.2	1507.9	1499.8	167.5°	3.5	3.5	3.5
1579.3	1578.1	1576.9	1573.4	1572.2	1555.9	1540.7	1526.6	1515.0	170°	2.3	2.3	2.3
1444.8	1446.0	1446.0	1444.8	1451.8	1441.3	1435.5	1428.5	1419.1	172.5°	2.3	2.3	2.3
1302.2	1297.5	1291.7	1284.7	1290.5	1288.2	1285.8	1282.3	1277.7	175°	2.3	2.3	2.3
1137.4	1138.6	1140.9	1145.6	1154.9	1149.1	1140.9	1133.9	1124.5	177.5°	1.2	1.2	1.2
888.4	911.8	935.2	956.2	977.2	972.6	966.7	962.0	959.7	180°	0.0	0.0	0.0
631.2	659.3	686.2	710.7	735.3	739.9	744.6	748.1	750.5				
417.3	439.5	462.9	481.6	507.3	520.2	529.5	538.9	542.4				
258.3	277.0	299.3	313.3	335.5	346.0	355.4	361.2	365.9				
171.8	183.5	195.2	205.7	217.4	225.6	232.6	236.1	239.6				
128.6	133.3	137.9	142.6	147.3	152.0	155.5	157.8	157.8				
104.0	105.2	106.4	106.4	107.5	109.9	113.4	113.4	113.4				
80.7	81.8	80.7	79.5	79.5	81.8	84.2	86.5	87.7				
62.0	62.0	62.0	59.6	59.6	62.0	64.3	64.3	66.6				
44.4	44.4	44.4	43.3	43.3	43.3	43.3	42.1	40.9				
30.4	30.4	31.6	30.4	30.4	30.4	29.2	28.1	26.9				
21.0	21.0	22.2	21.0	19.9	19.9	21.0	19.9	19.9				
16.4	16.4	18.7	17.5	17.5	17.5	17.5	15.2	15.2				
15.2	15.2	16.4	15.2	15.2	15.2	16.4	12.9	12.9				
14.0	14.0	14.0	12.9	12.9	12.9	12.9	10.5	10.5				
12.9	12.9	12.9	11.7	11.7	11.7	11.7	10.5	9.4				
14.0	14.0	14.0	11.7	11.7	11.7	11.7	9.4	9.4				
11.7	11.7	12.9	11.7	11.7	11.7	10.5	9.4	9.4				



REPORT NUMBER: P188107

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

S 0°TILT; 2PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°		137.5°	140°	142.5°	145°
10.5	11.7	11.7	11.7	11.7	10.5	9.4	9.4	0°	614.9	614.9	614.9	614.9
10.5	11.7	11.7	11.7	11.7	10.5	9.4	9.4	2.5°	613.7	612.5	613.7	613.7
10.5	11.7	10.5	10.5	10.5	9.4	9.4	9.4	5°	614.9	614.9	617.2	617.2
10.5	11.7	11.7	11.7	11.7	10.5	9.4	9.4	7.5°	624.2	625.4	625.4	626.6
10.5	11.7	10.5	10.5	10.5	9.4	9.4	9.4	10°	648.8	651.1	652.3	652.3
12.9	14.0	12.9	11.7	11.7	10.5	10.5	10.5	12.5°	686.2	688.5	687.3	688.5
12.9	14.0	12.9	12.9	12.9	12.9	12.9	12.9	15°	725.9	729.4	729.4	731.8
12.9	12.9	12.9	12.9	12.9	11.7	11.7	12.9	17.5°	761.0	766.8	771.5	776.2
14.0	14.0	14.0	12.9	12.9	14.0	14.0	14.0	20°	793.7	799.6	803.1	807.7
12.9	14.0	12.9	12.9	14.0	14.0	15.2	15.2	22.5°	822.9	826.4	826.4	825.3
15.2	14.0	15.2	15.2	15.2	16.4	15.2	15.2	25°	844.0	848.7	848.7	844.0
15.2	16.4	16.4	15.2	17.5	16.4	17.5	17.5	27.5°	866.2	870.9	872.0	869.7
16.4	16.4	17.5	16.4	16.4	17.5	17.5	17.5	30°	893.1	898.9	898.9	896.6
16.4	16.4	17.5	16.4	15.2	17.5	17.5	16.4	32.5°	914.1	922.3	923.5	924.6
14.0	15.2	15.2	14.0	12.9	14.0	14.0	14.0	35°	932.8	938.7	941.0	942.2
11.7	12.9	12.9	12.9	12.9	14.0	14.0	12.9	37.5°	943.3	948.0	952.7	957.4
9.4	10.5	10.5	10.5	10.5	11.7	11.7	10.5	40°	957.4	962.0	970.2	978.4
7.0	9.4	9.4	9.4	8.2	10.5	10.5	10.5	42.5°	970.2	979.6	990.1	1001.8
5.8	7.0	7.0	7.0	7.0	8.2	8.2	8.2	45°	1006.5	1019.3	1038.0	1057.9
5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	47.5°	1090.6	1115.2	1144.4	1180.6
4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	50°	1248.4	1277.7	1316.2	1363.0
3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	52.5°	1402.7	1414.4	1429.6	1449.5
3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	55°	1493.9	1488.1	1488.1	1495.1
2.3	2.3	2.3	2.3	2.3	2.3	1.2	1.2	57.5°	1504.4	1497.4	1493.9	1481.1
2.3	2.3	2.3	2.3	2.3	3.5	2.3	2.3	60°	1415.6	1415.6	1413.3	1394.6
2.3	2.3	1.2	1.2	1.2	1.2	1.2	1.2	62.5°	1281.2	1283.5	1287.0	1271.8
1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	65°	1119.9	1115.2	1109.3	1093.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	944.5	935.2	922.3	896.6
								70°	745.8	738.8	731.8	708.4
								72.5°	541.2	540.1	538.9	521.4
								75°	371.7	376.4	377.6	369.4
								77.5°	246.6	252.5	256.0	251.3
								80°	162.5	167.2	167.2	164.8
								82.5°	114.6	115.7	114.6	112.2
								85°	88.8	88.8	87.7	85.3
								87.5°	67.8	65.5	65.5	63.1
								90°	42.1	40.9	39.7	38.6
								92.5°	25.7	28.1	25.7	25.7
								95°	18.7	21.0	21.0	19.9
								97.5°	15.2	17.5	17.5	16.4
								100°	12.9	12.9	11.7	11.7
								102.5°	10.5	12.9	12.9	11.7
								105°	9.4	10.5	10.5	10.5
								107.5°	10.5	11.7	11.7	11.7
								110°	9.4	12.9	12.9	12.9



REPORT NUMBER: P188107

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°

:PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

147.5°	150°	152.5°	155°	157.5°	160°	162.5°		137.5°	140°	142.5°	145°	147.5°
614.9	614.9	614.9	614.9	614.9	614.9	614.9	112.5°	9.4	10.5	10.5	10.5	11.7
614.9	614.9	613.7	614.9	616.0	616.0	616.0	115°	9.4	10.5	10.5	10.5	11.7
617.2	618.4	618.4	619.5	618.4	618.4	619.5	117.5°	10.5	11.7	11.7	11.7	11.7
627.7	628.9	630.1	630.1	631.2	632.4	632.4	120°	9.4	10.5	10.5	10.5	11.7
653.4	654.6	654.6	655.8	655.8	655.8	655.8	122.5°	9.4	11.7	11.7	11.7	12.9
688.5	687.3	685.0	683.8	682.7	680.3	676.8	125°	10.5	11.7	11.7	11.7	12.9
727.1	722.4	716.6	711.9	706.0	700.2	694.4	127.5°	12.9	14.0	14.0	14.0	15.2
770.3	761.0	751.6	742.3	730.6	721.2	713.1	130°	12.9	15.2	15.2	15.2	16.4
797.2	787.9	776.2	763.3	751.6	741.1	731.8	132.5°	12.9	14.0	14.0	15.2	15.2
817.1	806.6	796.1	785.5	773.8	762.2	749.3	135°	15.2	16.4	16.4	16.4	15.2
835.8	827.6	817.1	806.6	796.1	783.2	770.3	137.5°	15.2	17.5	16.4	16.4	16.4
860.3	853.3	845.2	833.5	824.1	812.4	800.7	140°	16.4	17.5	17.5	17.5	16.4
891.9	886.1	879.0	869.7	859.2	847.5	832.3	142.5°	15.2	16.4	15.2	14.0	14.0
922.3	922.3	915.3	907.1	897.8	887.2	875.5	145°	15.2	16.4	15.2	15.2	14.0
946.8	951.5	948.0	943.3	935.2	929.3	923.5	147.5°	12.9	15.2	15.2	15.2	14.0
967.9	979.6	983.1	983.1	983.1	980.7	985.4	150°	12.9	12.9	12.9	12.9	12.9
993.6	1008.8	1019.3	1028.7	1040.4	1053.2	1074.3	152.5°	10.5	12.9	12.9	11.7	11.7
1025.2	1050.9	1078.9	1105.8	1136.2	1167.8	1215.7	155°	10.5	9.4	8.2	8.2	8.2
1095.3	1138.6	1193.5	1247.3	1303.4	1366.5	1443.7	157.5°	7.0	8.2	8.2	8.2	8.2
1229.7	1291.7	1364.2	1437.8	1485.7	1541.8	1609.6	160°	5.8	5.8	4.7	4.7	4.7
1398.1	1441.3	1492.7	1539.5	1574.6	1622.5	1682.1	162.5°	3.5	4.7	4.7	4.7	4.7
1471.7	1497.4	1527.8	1559.4	1588.6	1637.7	1688.0	165°	3.5	3.5	3.5	2.3	2.3
1515.0	1534.8	1550.0	1561.7	1568.7	1596.8	1628.3	167.5°	3.5	2.3	2.3	2.3	2.3
1489.2	1490.4	1484.6	1474.0	1469.4	1492.7	1519.6	170°	1.2	2.3	2.3	2.3	2.3
1394.6	1391.0	1381.7	1365.3	1334.9	1342.0	1347.8	172.5°	2.3	2.3	2.3	1.2	1.2
1255.5	1239.1	1214.5	1176.0	1146.7	1147.9	1147.9	175°	1.2	1.2	1.2	1.2	1.2
1076.6	1060.2	1035.7	992.4	962.0	950.4	936.3	177.5°	0.0	0.0	0.0	0.0	0.0
884.9	872.0	849.8	808.9	769.2	738.8	707.2	180°	0.0	0.0	0.0	0.0	0.0
693.2	678.0	648.8	606.7	569.3	535.4	502.6						
506.2	492.1	471.1	437.2	400.9	368.2	333.2						
356.5	341.3	326.1	301.6	270.0	244.3	213.9						
239.6	229.1	217.4	201.1	178.8	161.3	144.9						
156.6	149.6	142.6	134.4	122.7	115.7	111.1						
108.7	105.2	102.9	98.2	94.7	91.2	92.3						
86.5	85.3	84.2	84.2	81.8	81.8	79.5						
63.1	65.5	63.1	64.3	64.3	64.3	63.1						
39.7	40.9	40.9	39.7	39.7	40.9	39.7						
25.7	26.9	26.9	25.7	25.7	25.7	24.5						
19.9	21.0	18.7	18.7	18.7	17.5	17.5						
16.4	17.5	16.4	16.4	16.4	16.4	14.0						
11.7	14.0	12.9	12.9	12.9	12.9	12.9						
11.7	14.0	14.0	14.0	14.0	14.0	12.9						
11.7	12.9	12.9	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: P188107

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

°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	10.5	10.5	10.5	9.4	0°	614.9	614.9	614.9	614.9	614.9	614.9
11.7	11.7	10.5	10.5	10.5	10.5	2.5°	617.2	617.2	617.2	616.0	617.2	617.2
11.7	11.7	10.5	10.5	11.7	11.7	5°	619.5	620.7	620.7	621.9	620.7	623.1
12.9	12.9	11.7	11.7	12.9	12.9	7.5°	631.2	630.1	631.2	631.2	628.9	630.1
12.9	12.9	11.7	11.7	12.9	12.9	10°	653.4	651.1	649.9	649.9	649.9	649.9
12.9	12.9	11.7	11.7	12.9	12.9	12.5°	676.8	673.3	672.1	669.8	667.5	667.5
15.2	15.2	14.0	14.0	14.0	12.9	15°	692.0	688.5	686.2	683.8	682.7	681.5
16.4	16.4	15.2	15.2	16.4	16.4	17.5°	706.0	700.2	697.9	696.7	697.9	696.7
16.4	16.4	15.2	16.4	15.2	16.4	20°	720.1	714.2	715.4	713.1	713.1	715.4
16.4	16.4	16.4	15.2	15.2	15.2	22.5°	735.3	732.9	731.8	730.6	729.4	731.8
16.4	16.4	16.4	15.2	16.4	16.4	25°	758.6	756.3	754.0	751.6	749.3	751.6
17.5	17.5	16.4	15.2	14.0	15.2	27.5°	791.4	787.9	783.2	779.7	776.2	778.5
15.2	15.2	15.2	14.0	14.0	14.0	30°	824.1	821.8	817.1	812.4	811.3	812.4
14.0	14.0	12.9	12.9	12.9	11.7	32.5°	868.5	867.4	865.0	860.3	861.5	865.0
14.0	12.9	12.9	11.7	11.7	10.5	35°	922.3	925.8	927.0	928.1	932.8	936.3
12.9	11.7	11.7	11.7	10.5	10.5	37.5°	992.4	1003.0	1010.0	1015.8	1027.5	1035.7
10.5	9.4	9.4	9.4	8.2	9.4	40°	1096.5	1119.9	1137.4	1156.1	1176.0	1192.3
8.2	8.2	8.2	8.2	8.2	5.8	42.5°	1263.6	1305.7	1344.3	1382.9	1419.1	1442.5
8.2	7.0	7.0	7.0	7.0	5.8	45°	1519.6	1572.2	1624.8	1670.4	1712.5	1739.4
5.8	4.7	4.7	4.7	4.7	4.7	47.5°	1673.9	1730.0	1782.6	1829.4	1869.2	1901.9
5.8	5.8	5.8	5.8	5.8	5.8	50°	1735.9	1792.0	1851.6	1901.9	1949.8	1988.4
3.5	3.5	3.5	4.7	4.7	4.7	52.5°	1728.9	1772.1	1817.7	1865.6	1910.1	1951.0
3.5	3.5	4.7	4.7	4.7	4.7	55°	1652.9	1684.5	1725.4	1766.3	1809.5	1842.3
3.5	3.5	3.5	3.5	3.5	3.5	57.5°	1544.2	1561.7	1592.1	1623.7	1656.4	1693.8
2.3	2.3	2.3	2.3	2.3	2.3	60°	1350.1	1364.2	1392.2	1420.3	1448.3	1482.2
2.3	2.3	1.2	1.2	1.2	1.2	62.5°	1140.9	1150.2	1173.6	1197.0	1220.4	1257.8
1.2	1.2	1.2	1.2	1.2	1.2	65°	921.1	916.5	923.5	930.5	944.5	976.1
0.0	0.0	0.0	0.0	0.0	0.0	67.5°	679.2	671.0	662.8	655.8	662.8	679.2
						70°	476.9	459.4	439.5	420.8	415.0	417.3
						72.5°	307.4	292.2	272.4	253.7	245.5	242.0
						75°	195.2	185.9	176.5	167.2	161.3	160.1
						77.5°	135.6	135.6	137.9	136.8	139.1	141.4
						80°	109.9	112.2	115.7	118.1	122.7	125.1
						82.5°	92.3	93.5	97.0	98.2	100.5	104.0
						85°	78.3	80.7	80.7	81.8	81.8	83.0
						87.5°	62.0	60.8	60.8	57.3	57.3	57.3
						90°	38.6	35.1	33.9	29.2	25.7	25.7
						92.5°	23.4	22.2	21.0	17.5	15.2	15.2
						95°	16.4	17.5	16.4	14.0	12.9	12.9
						97.5°	12.9	12.9	14.0	12.9	12.9	12.9
						100°	11.7	11.7	12.9	11.7	11.7	11.7
						102.5°	11.7	11.7	12.9	11.7	11.7	11.7
						105°	12.9	12.9	11.7	10.5	10.5	10.5
						107.5°	10.5	9.4	9.4	9.4	8.2	8.2
						110°	10.5	10.5	10.5	8.2	8.2	7.0



REPORT NUMBER: P188107

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

180°	182.5°	185°	187.5°	190°		165°	167.5°	170°	172.5°	175°	177.5°	180°
614.9	614.9	614.9	614.9	614.9	112.5°	9.4	9.4	9.4	8.2	8.2	7.0	7.0
618.4	617.2	617.2	616.0	617.2	115°	10.5	9.4	9.4	8.2	7.0	7.0	7.0
625.4	623.1	620.7	621.9	620.7	117.5°	11.7	10.5	9.4	9.4	7.0	7.0	7.0
631.2	630.1	628.9	631.2	631.2	120°	12.9	11.7	11.7	10.5	9.4	9.4	8.2
649.9	649.9	649.9	649.9	649.9	122.5°	12.9	11.7	12.9	12.9	11.7	12.9	12.9
669.8	667.5	667.5	669.8	672.1	125°	11.7	12.9	14.0	14.0	14.0	15.2	16.4
680.3	681.5	682.7	683.8	686.2	127.5°	12.9	12.9	15.2	16.4	17.5	16.4	16.4
695.5	696.7	696.7	696.7	697.9	130°	17.5	17.5	16.4	15.2	15.2	14.0	14.0
714.2	715.4	713.1	713.1	715.4	132.5°	16.4	15.2	16.4	16.4	16.4	15.2	15.2
732.9	731.8	729.4	730.6	731.8	135°	14.0	14.0	14.0	14.0	14.0	14.0	14.0
754.0	751.6	749.3	751.6	754.0	137.5°	16.4	15.2	14.0	12.9	12.9	12.9	12.9
778.5	778.5	776.2	779.7	783.2	140°	14.0	14.0	12.9	12.9	12.9	12.9	12.9
812.4	812.4	811.3	812.4	817.1	142.5°	12.9	12.9	11.7	11.7	11.7	11.7	11.7
866.2	865.0	861.5	860.3	865.0	145°	11.7	11.7	10.5	10.5	10.5	10.5	10.5
941.0	936.3	932.8	928.1	927.0	147.5°	10.5	9.4	9.4	9.4	9.4	9.4	9.4
1041.5	1035.7	1027.5	1015.8	1010.0	150°	10.5	9.4	9.4	8.2	8.2	9.4	9.4
1202.8	1192.3	1176.0	1156.1	1137.4	152.5°	9.4	8.2	9.4	9.4	9.4	9.4	9.4
1464.7	1441.3	1419.1	1382.9	1344.3	155°	5.8	7.0	8.2	8.2	8.2	8.2	8.2
1762.8	1739.4	1713.7	1670.4	1624.8	157.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0
1924.1	1901.9	1869.2	1829.4	1782.6	160°	4.7	5.8	5.8	5.8	5.8	5.8	5.8
2002.4	1988.4	1949.8	1901.9	1851.6	162.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
1962.7	1951.0	1910.1	1865.6	1817.7	165°	4.7	4.7	4.7	4.7	4.7	3.5	4.7
1848.1	1842.3	1809.5	1766.3	1725.4	167.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1695.0	1693.8	1656.4	1623.7	1592.1	170°	3.5	3.5	3.5	3.5	3.5	4.7	4.7
1479.9	1482.2	1448.3	1420.3	1392.2	172.5°	2.3	2.3	3.5	3.5	3.5	3.5	3.5
1262.5	1259.0	1222.7	1197.0	1173.6	175°	1.2	2.3	2.3	1.2	1.2	1.2	1.2
978.4	976.1	944.5	930.5	923.5	177.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
688.5	679.2	662.8	655.8	662.8	180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
420.8	417.3	415.0	420.8	439.5								
240.8	242.0	245.5	253.7	272.4								
159.0	160.1	161.3	167.2	176.5								
143.8	141.4	139.1	136.8	137.9								
127.4	125.1	122.7	118.1	115.7								
102.9	104.0	100.5	98.2	97.0								
84.2	83.0	81.8	81.8	80.7								
56.1	57.3	57.3	57.3	60.8								
22.2	25.7	25.7	29.2	33.9								
15.2	15.2	15.2	17.5	21.0								
12.9	12.9	12.9	14.0	16.4								
11.7	12.9	12.9	12.9	14.0								
11.7	11.7	11.7	11.7	12.9								
10.5	11.7	11.7	11.7	12.9								
10.5	10.5	10.5	10.5	11.7								
9.4	8.2	8.2	9.4	9.4								
7.0	7.0	8.2	8.2	10.5								



REPORT NUMBER: P188107
 CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

182.5°	185°	187.5°	190°		192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°
7.0	8.2	8.2	9.4	0°	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9
7.0	7.0	8.2	9.4	2.5°	617.2	617.2	616.0	616.0	616.0	616.0	613.7	614.9
7.0	7.0	9.4	9.4	5°	620.7	619.5	619.5	618.4	618.4	619.5	618.4	618.4
9.4	9.4	10.5	11.7	7.5°	630.1	631.2	632.4	632.4	631.2	630.1	630.1	628.9
12.9	11.7	12.9	12.9	10°	651.1	653.4	655.8	655.8	655.8	655.8	654.6	654.6
15.2	14.0	14.0	14.0	12.5°	673.3	676.8	676.8	680.3	682.7	683.8	685.0	687.3
16.4	17.5	16.4	15.2	15°	688.5	692.0	694.4	700.2	706.0	711.9	716.6	722.4
14.0	15.2	15.2	16.4	17.5°	700.2	706.0	713.1	721.2	730.6	742.3	751.6	761.0
15.2	16.4	16.4	16.4	20°	714.2	720.1	731.8	741.1	751.6	763.3	776.2	787.9
14.0	14.0	14.0	14.0	22.5°	732.9	735.3	749.3	762.2	773.8	785.5	796.1	806.6
12.9	12.9	12.9	14.0	25°	756.3	758.6	770.3	783.2	796.1	806.6	817.1	827.6
12.9	12.9	12.9	12.9	27.5°	787.9	791.4	800.7	812.4	824.1	833.5	845.2	853.3
11.7	11.7	11.7	11.7	30°	821.8	824.1	832.3	847.5	859.2	869.7	879.0	886.1
10.5	10.5	10.5	10.5	32.5°	867.4	868.5	875.5	887.2	897.8	907.1	915.3	922.3
9.4	9.4	9.4	9.4	35°	925.8	922.3	923.5	929.3	935.2	943.3	948.0	951.5
9.4	8.2	8.2	9.4	37.5°	1003.0	992.4	985.4	980.7	983.1	983.1	983.1	979.6
9.4	9.4	9.4	9.4	40°	1119.9	1096.5	1074.3	1053.2	1040.4	1028.7	1019.3	1008.8
8.2	8.2	8.2	8.2	42.5°	1305.7	1263.6	1215.7	1167.8	1136.2	1105.8	1078.9	1050.9
7.0	7.0	7.0	7.0	45°	1572.2	1519.6	1443.7	1366.5	1303.4	1247.3	1193.5	1138.6
5.8	5.8	5.8	5.8	47.5°	1730.0	1673.9	1609.6	1541.8	1485.7	1437.8	1364.2	1291.7
5.8	5.8	5.8	5.8	50°	1792.0	1735.9	1682.1	1622.5	1574.6	1539.5	1492.7	1441.3
3.5	4.7	4.7	4.7	52.5°	1772.1	1728.9	1688.0	1637.7	1588.6	1559.4	1527.8	1497.4
4.7	4.7	4.7	4.7	55°	1684.5	1652.9	1628.3	1596.8	1568.7	1561.7	1550.0	1534.8
4.7	3.5	3.5	3.5	57.5°	1561.7	1544.2	1519.6	1492.7	1469.4	1474.0	1484.6	1490.4
3.5	3.5	3.5	3.5	60°	1364.2	1350.1	1347.8	1343.1	1334.9	1365.3	1381.7	1391.0
1.2	1.2	1.2	2.3	62.5°	1151.4	1139.7	1147.9	1147.9	1146.7	1176.0	1214.5	1239.1
1.2	1.2	1.2	1.2	65°	916.5	921.1	936.3	950.4	962.0	992.4	1035.7	1060.2
0.0	0.0	0.0	0.0	67.5°	671.0	679.2	707.2	738.8	769.2	808.9	849.8	872.0
				70°	459.4	476.9	502.6	535.4	569.3	606.7	648.8	678.0
				72.5°	292.2	307.4	333.2	368.2	400.9	437.2	471.1	492.1
				75°	185.9	195.2	213.9	244.3	270.0	301.6	326.1	341.3
				77.5°	135.6	135.6	144.9	161.3	178.8	201.1	217.4	229.1
				80°	112.2	109.9	111.1	115.7	122.7	134.4	142.6	149.6
				82.5°	93.5	92.3	92.3	91.2	94.7	98.2	102.9	105.2
				85°	80.7	78.3	79.5	81.8	81.8	84.2	84.2	85.3
				87.5°	60.8	62.0	63.1	64.3	64.3	64.3	63.1	65.5
				90°	35.1	38.6	39.7	40.9	39.7	39.7	40.9	40.9
				92.5°	22.2	23.4	24.5	25.7	25.7	25.7	26.9	26.9
				95°	17.5	16.4	17.5	17.5	18.7	18.7	18.7	21.0
				97.5°	12.9	12.9	14.0	16.4	16.4	16.4	16.4	17.5
				100°	11.7	11.7	12.9	12.9	12.9	12.9	12.9	14.0
				102.5°	11.7	11.7	12.9	14.0	14.0	14.0	14.0	14.0
				105°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
				107.5°	9.4	10.5	10.5	11.7	11.7	11.7	11.7	11.7
				110°	10.5	10.5	11.7	11.7	11.7	11.7	11.7	12.9



REPORT NUMBER: P188107

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

212.5°	215°	217.5°		192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°
614.9	614.9	614.9	112.5°	9.4	9.4	9.4	10.5	10.5	10.5	11.7	11.7	11.7
614.9	613.7	613.7	115°	9.4	10.5	10.5	10.5	10.5	10.5	11.7	11.7	11.7
617.2	617.2	617.2	117.5°	10.5	11.7	11.7	11.7	10.5	10.5	11.7	11.7	11.7
627.7	626.6	625.4	120°	11.7	12.9	12.9	12.9	11.7	11.7	12.9	12.9	11.7
653.4	652.3	652.3	122.5°	11.7	12.9	12.9	12.9	11.7	11.7	12.9	12.9	12.9
688.5	688.5	687.3	125°	12.9	11.7	12.9	12.9	11.7	11.7	12.9	12.9	12.9
727.1	731.8	729.4	127.5°	12.9	12.9	12.9	14.0	14.0	14.0	15.2	15.2	15.2
770.3	776.2	771.5	130°	17.5	17.5	16.4	16.4	15.2	15.2	16.4	16.4	16.4
797.2	807.7	803.1	132.5°	15.2	16.4	16.4	15.2	16.4	15.2	16.4	16.4	15.2
817.1	825.3	826.4	135°	14.0	14.0	15.2	15.2	15.2	16.4	16.4	16.4	15.2
835.8	844.0	848.7	137.5°	15.2	16.4	16.4	16.4	15.2	16.4	16.4	16.4	16.4
860.3	869.7	872.0	140°	14.0	14.0	15.2	14.0	15.2	16.4	17.5	17.5	16.4
891.9	896.6	898.9	142.5°	12.9	12.9	14.0	14.0	14.0	15.2	15.2	15.2	14.0
922.3	924.6	923.5	145°	11.7	11.7	11.7	12.9	12.9	12.9	14.0	14.0	14.0
946.8	942.2	941.0	147.5°	9.4	10.5	10.5	11.7	11.7	12.9	12.9	14.0	14.0
967.9	957.4	952.7	150°	9.4	10.5	10.5	10.5	11.7	11.7	11.7	12.9	12.9
993.6	978.4	970.2	152.5°	8.2	9.4	9.4	8.2	9.4	9.4	9.4	10.5	11.7
1025.2	1001.8	990.1	155°	7.0	5.8	5.8	8.2	8.2	8.2	8.2	8.2	8.2
1095.3	1057.9	1038.0	157.5°	7.0	7.0	5.8	7.0	7.0	7.0	7.0	8.2	8.2
1229.7	1180.6	1144.4	160°	5.8	4.7	4.7	4.7	4.7	4.7	4.7	5.8	4.7
1398.1	1363.0	1316.2	162.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.7
1471.7	1449.5	1428.5	165°	4.7	4.7	4.7	4.7	4.7	3.5	3.5	3.5	2.3
1515.0	1495.1	1486.9	167.5°	4.7	4.7	4.7	4.7	4.7	4.7	3.5	3.5	2.3
1489.2	1481.1	1492.7	170°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.3
1394.6	1394.6	1414.4	172.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.2
1255.5	1271.8	1287.0	175°	2.3	1.2	1.2	1.2	1.2	1.2	2.3	2.3	1.2
1076.6	1093.0	1109.3	177.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0
884.9	896.6	922.3	180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.2	708.4	731.8										
506.2	521.4	537.7										
356.5	369.4	377.6										
239.6	251.3	256.0										
156.6	164.8	167.2										
108.7	112.2	114.6										
86.5	85.3	87.7										
63.1	63.1	65.5										
39.7	38.6	39.7										
25.7	25.7	25.7										
19.9	19.9	21.0										
16.4	16.4	17.5										
11.7	11.7	11.7										
11.7	11.7	12.9										
11.7	10.5	10.5										
11.7	11.7	11.7										
12.9	12.9	12.9										



REPORT NUMBER: P188107

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

215°	217.5°		220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°
10.5	10.5	0°	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9
10.5	10.5	2.5°	612.5	613.7	612.5	612.5	612.5	612.5	611.4	611.4	611.4	611.4
11.7	11.7	5°	614.9	614.9	613.7	613.7	613.7	612.5	611.4	612.5	612.5	611.4
10.5	10.5	7.5°	625.4	624.2	624.2	624.2	623.1	621.9	619.5	619.5	618.4	617.2
11.7	11.7	10°	651.1	648.8	646.4	642.9	640.6	637.1	632.4	630.1	626.6	623.1
11.7	11.7	12.5°	688.5	686.2	680.3	674.5	669.8	662.8	655.8	651.1	647.6	639.4
14.0	14.0	15°	729.4	725.9	721.2	713.1	703.7	692.0	681.5	673.3	667.5	658.1
15.2	15.2	17.5°	766.8	761.0	756.3	745.8	734.1	721.2	708.4	697.9	688.5	676.8
15.2	14.0	20°	799.6	793.7	786.7	777.4	763.3	749.3	734.1	723.6	711.9	699.0
16.4	16.4	22.5°	826.4	822.9	819.4	807.7	792.5	778.5	763.3	750.5	736.4	723.6
16.4	16.4	25°	848.7	844.0	842.8	831.1	819.4	804.2	790.2	776.2	761.0	747.0
17.5	17.5	27.5°	870.9	866.2	862.7	853.3	842.8	830.0	817.1	803.1	787.9	773.8
14.0	15.2	30°	898.9	893.1	887.2	876.7	866.2	853.3	842.8	830.0	817.1	805.4
15.2	15.2	32.5°	922.3	914.1	907.1	897.8	887.2	879.0	874.4	865.0	854.5	844.0
15.2	15.2	35°	938.7	932.8	924.6	916.5	907.1	902.4	902.4	896.6	890.7	883.7
12.9	12.9	37.5°	948.0	943.3	939.8	934.0	925.8	925.8	927.0	925.8	923.5	921.1
11.7	12.9	40°	962.0	957.4	949.2	945.7	943.3	944.5	949.2	950.4	953.9	953.9
8.2	8.2	42.5°	979.6	970.2	964.4	963.2	963.2	964.4	970.2	979.6	988.9	998.3
8.2	8.2	45°	1019.3	1006.5	992.4	992.4	995.9	1001.8	1008.8	1029.8	1055.6	1077.8
4.7	4.7	47.5°	1115.2	1090.6	1068.4	1069.6	1077.8	1089.5	1102.3	1142.1	1190.0	1236.7
4.7	4.7	50°	1277.7	1248.4	1216.9	1214.5	1226.2	1240.3	1257.8	1301.0	1356.0	1410.9
2.3	3.5	52.5°	1414.4	1401.6	1394.6	1386.4	1403.9	1420.3	1440.1	1491.6	1546.5	1600.3
2.3	2.3	55°	1488.1	1492.7	1499.8	1509.1	1530.2	1554.7	1583.9	1614.3	1634.2	1654.1
2.3	2.3	57.5°	1497.4	1503.3	1516.1	1526.6	1540.7	1555.9	1572.2	1573.4	1576.9	1578.1
1.2	2.3	60°	1414.4	1415.6	1419.1	1428.5	1435.5	1441.3	1451.8	1444.8	1446.0	1446.0
1.2	1.2	62.5°	1282.3	1281.2	1277.7	1281.2	1285.8	1287.0	1290.5	1284.7	1291.7	1297.5
0.0	0.0	65°	1115.2	1119.9	1124.5	1132.7	1140.9	1147.9	1154.9	1144.4	1140.9	1137.4
0.0	0.0	67.5°	934.0	944.5	959.7	962.0	966.7	972.6	977.2	956.2	935.2	911.8
		70°	737.6	745.8	750.5	748.1	744.6	739.9	735.3	710.7	686.2	659.3
		72.5°	540.1	540.1	542.4	538.9	529.5	520.2	507.3	481.6	462.9	439.5
		75°	375.2	371.7	365.9	361.2	355.4	346.0	335.5	313.3	298.1	277.0
		77.5°	252.5	246.6	239.6	236.1	232.6	225.6	217.4	205.7	195.2	183.5
		80°	167.2	162.5	157.8	157.8	155.5	152.0	147.3	142.6	137.9	133.3
		82.5°	115.7	114.6	113.4	113.4	113.4	109.9	107.5	106.4	106.4	105.2
		85°	88.8	88.8	87.7	86.5	84.2	81.8	79.5	79.5	80.7	81.8
		87.5°	65.5	67.8	66.6	64.3	64.3	62.0	59.6	59.6	62.0	62.0
		90°	40.9	42.1	40.9	42.1	43.3	43.3	43.3	43.3	44.4	44.4
		92.5°	28.1	25.7	26.9	28.1	29.2	30.4	30.4	30.4	31.6	30.4
		95°	21.0	18.7	19.9	19.9	21.0	19.9	19.9	21.0	22.2	21.0
		97.5°	17.5	15.2	15.2	15.2	17.5	17.5	17.5	17.5	18.7	16.4
		100°	12.9	12.9	12.9	12.9	16.4	15.2	15.2	15.2	16.4	15.2
		102.5°	12.9	10.5	10.5	10.5	12.9	12.9	12.9	12.9	14.0	14.0
		105°	10.5	9.4	9.4	10.5	11.7	11.7	11.7	11.7	12.9	12.9
		107.5°	11.7	10.5	9.4	9.4	11.7	11.7	11.7	11.7	14.0	14.0
		110°	12.9	9.4	9.4	9.4	10.5	11.7	11.7	11.7	12.9	11.7



REPORT NUMBER: P188107

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

245°		220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
614.9	112.5°	10.5	9.4	9.4	9.4	10.5	11.7	11.7	11.7	11.7	10.5	10.5
610.2	115°	10.5	9.4	9.4	9.4	10.5	11.7	11.7	11.7	11.7	10.5	10.5
610.2	117.5°	11.7	10.5	9.4	9.4	9.4	10.5	10.5	10.5	11.7	10.5	10.5
616.0	120°	10.5	9.4	9.4	9.4	10.5	11.7	11.7	11.7	11.7	10.5	10.5
619.5	122.5°	11.7	9.4	9.4	9.4	9.4	10.5	10.5	10.5	11.7	10.5	10.5
633.6	125°	11.7	10.5	10.5	10.5	10.5	11.7	11.7	12.9	14.0	12.9	12.9
648.8	127.5°	14.0	12.9	12.9	12.9	12.9	12.9	12.9	12.9	14.0	12.9	12.9
667.5	130°	15.2	12.9	12.9	11.7	11.7	12.9	12.9	12.9	12.9	12.9	11.7
685.0	132.5°	14.0	12.9	14.0	14.0	14.0	12.9	12.9	14.0	14.0	14.0	14.0
707.2	135°	16.4	15.2	15.2	15.2	14.0	14.0	12.9	12.9	14.0	12.9	14.0
731.8	137.5°	17.5	15.2	15.2	15.2	16.4	15.2	15.2	15.2	14.0	15.2	15.2
758.6	140°	17.5	16.4	17.5	17.5	16.4	17.5	15.2	16.4	16.4	15.2	15.2
792.5	142.5°	16.4	15.2	17.5	17.5	17.5	16.4	16.4	17.5	16.4	16.4	14.0
833.5	145°	16.4	15.2	16.4	17.5	17.5	15.2	16.4	17.5	16.4	16.4	14.0
879.0	147.5°	15.2	12.9	14.0	14.0	14.0	12.9	14.0	15.2	15.2	14.0	14.0
917.6	150°	12.9	12.9	12.9	14.0	14.0	12.9	12.9	12.9	12.9	11.7	11.7
956.2	152.5°	12.9	10.5	10.5	11.7	11.7	10.5	10.5	10.5	10.5	9.4	9.4
1007.6	155°	9.4	10.5	10.5	10.5	10.5	8.2	9.4	9.4	9.4	7.0	8.2
1100.0	157.5°	8.2	7.0	8.2	8.2	8.2	7.0	7.0	7.0	7.0	5.8	5.8
1280.0	160°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
1464.7	162.5°	4.7	3.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1659.9	165°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
1675.1	167.5°	2.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
1579.3	170°	2.3	1.2	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1444.8	172.5°	2.3	2.3	2.3	2.3	3.5	2.3	2.3	2.3	2.3	2.3	2.3
1302.2	175°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	2.3
1137.4	177.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
888.4	180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.2												
417.3												
258.3												
171.8												
128.6												
104.0												
80.7												
62.0												
44.4												
30.4												
21.0												
16.4												
15.2												
14.0												
12.9												
14.0												
11.7												



REPORT NUMBER: P188107
 CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°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°	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	112.5°
2.5°	610.2	610.2	610.2	609.0	609.0	609.0	610.2	609.0	610.2	609.0	610.2	115°
5°	611.4	610.2	609.0	607.9	607.9	610.2	609.0	609.0	609.0	609.0	609.0	117.5°
7.5°	616.0	613.7	611.4	610.2	611.4	610.2	610.2	610.2	611.4	611.4	611.4	120°
10°	619.5	618.4	619.5	618.4	618.4	620.7	621.9	619.5	620.7	618.4	620.7	122.5°
12.5°	630.1	628.9	627.7	626.6	627.7	626.6	628.9	630.1	631.2	631.2	631.2	125°
15°	645.3	640.6	639.4	637.1	639.4	639.4	640.6	641.8	642.9	642.9	642.9	127.5°
17.5°	661.6	654.6	649.9	649.9	651.1	652.3	653.4	654.6	655.8	654.6	655.8	130°
20°	679.2	672.1	667.5	665.1	666.3	667.5	667.5	668.6	669.8	668.6	669.8	132.5°
22.5°	700.2	692.0	687.3	682.7	682.7	682.7	681.5	681.5	681.5	680.3	681.5	135°
25°	722.4	713.1	706.0	702.5	702.5	701.4	702.5	700.2	701.4	699.0	701.4	137.5°
27.5°	749.3	738.8	730.6	725.9	725.9	723.6	722.4	718.9	721.2	720.1	721.2	140°
30°	784.4	772.7	764.5	758.6	758.6	756.3	755.1	751.6	751.6	749.3	751.6	142.5°
32.5°	827.6	819.4	813.6	808.9	810.1	808.9	805.4	804.2	804.2	800.7	804.2	145°
35°	877.9	872.0	868.5	866.2	867.4	868.5	869.7	869.7	868.5	865.0	868.5	147.5°
37.5°	921.1	922.3	924.6	927.0	931.7	935.2	939.8	944.5	946.8	946.8	946.8	150°
40°	966.7	979.6	988.9	997.1	1013.5	1029.8	1046.2	1062.6	1067.3	1070.8	1067.3	152.5°
42.5°	1032.2	1057.9	1082.4	1107.0	1135.0	1161.9	1188.8	1216.9	1227.4	1236.7	1227.4	155°
45°	1147.9	1202.8	1254.3	1308.1	1357.2	1401.6	1449.5	1498.6	1519.6	1537.2	1519.6	157.5°
47.5°	1353.6	1432.0	1500.9	1569.9	1630.7	1686.8	1751.1	1814.2	1841.1	1864.5	1841.1	160°
50°	1553.5	1647.0	1737.1	1829.4	1901.9	1960.3	2022.3	2084.2	2111.1	2136.8	2111.1	162.5°
52.5°	1742.9	1814.2	1868.0	1924.1	1970.8	2019.9	2063.2	2106.4	2132.2	2156.7	2132.2	165°
55°	1724.2	1769.8	1802.5	1835.3	1875.0	1919.4	1958.0	1997.7	2027.0	2055.0	2027.0	167.5°
57.5°	1615.5	1654.1	1683.3	1711.3	1749.9	1789.7	1828.2	1864.5	1900.7	1936.9	1900.7	170°
60°	1475.2	1507.9	1539.5	1569.9	1608.5	1651.7	1689.1	1730.0	1765.1	1800.2	1765.1	172.5°
62.5°	1327.9	1356.0	1379.4	1402.7	1429.6	1461.2	1483.4	1506.8	1544.2	1580.4	1544.2	175°
65°	1139.7	1138.6	1130.4	1122.2	1135.0	1152.6	1164.3	1176.0	1205.2	1233.2	1205.2	177.5°
67.5°	868.5	849.8	825.3	799.6	797.2	801.9	798.4	798.4	819.4	839.3	819.4	180°
70°	603.2	576.3	545.9	514.3	498.0	483.9	468.7	451.2	460.6	469.9	460.6	
72.5°	391.6	363.5	330.8	296.9	284.1	274.7	260.7	250.2	251.3	249.0	251.3	
75°	238.5	218.6	201.1	183.5	176.5	173.0	167.2	161.3	164.8	166.0	164.8	
77.5°	159.0	144.9	136.8	128.6	133.3	137.9	140.3	143.8	147.3	147.3	147.3	
80°	122.7	116.9	116.9	114.6	118.1	123.9	126.2	129.8	134.4	135.6	134.4	
82.5°	102.9	102.9	101.7	100.5	102.9	106.4	108.7	109.9	112.2	114.6	112.2	
85°	79.5	79.5	79.5	76.0	76.0	74.8	74.8	72.5	74.8	73.6	74.8	
87.5°	60.8	59.6	57.3	53.8	52.6	51.4	47.9	46.8	47.9	47.9	47.9	
90°	44.4	45.6	43.3	43.3	42.1	39.7	36.2	33.9	33.9	32.7	33.9	
92.5°	30.4	30.4	30.4	29.2	28.1	28.1	25.7	24.5	24.5	23.4	24.5	
95°	22.2	22.2	22.2	21.0	21.0	19.9	17.5	16.4	16.4	16.4	16.4	
97.5°	16.4	16.4	16.4	15.2	15.2	15.2	12.9	12.9	12.9	12.9	12.9	
100°	15.2	15.2	14.0	12.9	12.9	14.0	12.9	12.9	12.9	12.9	12.9	
102.5°	14.0	14.0	12.9	11.7	11.7	14.0	14.0	14.0	14.0	11.7	14.0	
105°	12.9	12.9	12.9	12.9	12.9	11.7	11.7	10.5	11.7	11.7	11.7	
107.5°	14.0	14.0	12.9	11.7	11.7	11.7	9.4	9.4	9.4	8.2	9.4	
110°	11.7	11.7	11.7	11.7	11.7	10.5	9.4	8.2	8.2	8.2	8.2	

NUMBER: P188107
 NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°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°	
10.5	10.5	9.4	9.4	9.4	8.2	8.2	7.0	7.0	7.0	7.0	0°	614.9
10.5	10.5	10.5	9.4	9.4	9.4	7.0	7.0	7.0	7.0	7.0	2.5°	609.0
10.5	10.5	9.4	8.2	8.2	8.2	7.0	7.0	7.0	7.0	7.0	5°	609.0
10.5	10.5	10.5	9.4	9.4	9.4	7.0	7.0	7.0	7.0	7.0	7.5°	610.2
11.7	10.5	10.5	10.5	10.5	9.4	8.2	7.0	7.0	7.0	7.0	10°	619.5
12.9	12.9	12.9	11.7	11.7	11.7	9.4	9.4	9.4	8.2	9.4	12.5°	630.1
14.0	12.9	12.9	11.7	11.7	12.9	11.7	11.7	12.9	12.9	12.9	15°	641.8
12.9	12.9	12.9	11.7	12.9	14.0	12.9	14.0	15.2	16.4	15.2	17.5°	654.6
14.0	12.9	11.7	12.9	14.0	15.2	15.2	16.4	16.4	16.4	16.4	20°	668.6
15.2	16.4	15.2	15.2	15.2	15.2	14.0	14.0	14.0	14.0	14.0	22.5°	681.5
15.2	15.2	15.2	14.0	14.0	15.2	15.2	15.2	15.2	15.2	15.2	25°	700.2
15.2	14.0	14.0	12.9	12.9	14.0	14.0	14.0	14.0	14.0	14.0	27.5°	718.9
15.2	15.2	14.0	12.9	12.9	14.0	12.9	12.9	12.9	12.9	12.9	30°	751.6
14.0	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	32.5°	804.2
12.9	11.7	11.7	11.7	11.7	11.7	12.9	12.9	12.9	12.9	12.9	35°	869.7
11.7	10.5	10.5	10.5	10.5	10.5	11.7	11.7	11.7	11.7	11.7	37.5°	944.5
9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	40°	1062.6
8.2	8.2	8.2	8.2	8.2	7.0	7.0	7.0	9.4	9.4	9.4	42.5°	1216.9
7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.2	8.2	8.2	45°	1498.6
5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.7	5.8	47.5°	1814.2
5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.0	7.0	7.0	50°	2084.2
3.5	3.5	4.7	4.7	4.7	5.8	5.8	5.8	5.8	5.8	5.8	52.5°	2106.4
3.5	3.5	4.7	4.7	4.7	4.7	4.7	4.7	5.8	5.8	5.8	55°	1997.7
2.3	2.3	2.3	3.5	3.5	3.5	3.5	3.5	4.7	4.7	4.7	57.5°	1864.5
2.3	2.3	2.3	2.3	2.3	4.7	4.7	4.7	4.7	4.7	4.7	60°	1730.0
2.3	2.3	2.3	2.3	1.2	2.3	2.3	3.5	3.5	3.5	3.5	62.5°	1506.8
1.2	1.2	1.2	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3	65°	1176.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	798.4
											70°	451.2
											72.5°	250.2
											75°	161.3
											77.5°	143.8
											80°	129.8
											82.5°	109.9
											85°	72.5
											87.5°	46.8
											90°	33.9
											92.5°	24.5
											95°	16.4
											97.5°	12.9
											100°	12.9
											102.5°	14.0
											105°	10.5
											107.5°	9.4
											110°	8.2

'188107
 QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

REPORT NUMBER: P188107
 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°
614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	112.5°	7.0	8.2
610.2	609.0	609.0	609.0	610.2	610.2	610.2	610.2	611.4	611.4	115°	7.0	7.0
609.0	610.2	607.9	607.9	609.0	610.2	611.4	611.4	611.4	613.7	117.5°	7.0	7.0
610.2	610.2	611.4	610.2	611.4	613.7	616.0	616.0	617.2	618.4	120°	7.0	7.0
621.9	620.7	618.4	618.4	619.5	618.4	619.5	619.5	623.1	626.6	122.5°	7.0	8.2
628.9	626.6	627.7	626.6	627.7	628.9	630.1	633.6	639.4	647.6	125°	9.4	9.4
640.6	639.4	639.4	637.1	639.4	640.6	645.3	648.8	658.1	667.5	127.5°	11.7	11.7
653.4	652.3	651.1	649.9	649.9	654.6	661.6	667.5	676.8	688.5	130°	14.0	12.9
667.5	667.5	666.3	665.1	667.5	672.1	679.2	685.0	699.0	711.9	132.5°	16.4	15.2
681.5	682.7	682.7	682.7	687.3	692.0	700.2	707.2	723.6	736.4	135°	14.0	14.0
702.5	701.4	702.5	702.5	706.0	713.1	722.4	731.8	747.0	761.0	137.5°	15.2	15.2
722.4	723.6	725.9	725.9	730.6	738.8	749.3	758.6	773.8	787.9	140°	14.0	14.0
755.1	756.3	758.6	758.6	764.5	772.7	784.4	792.5	805.4	817.1	142.5°	12.9	12.9
805.4	808.9	810.1	808.9	813.6	819.4	827.6	833.5	844.0	854.5	145°	12.9	12.9
869.7	868.5	867.4	866.2	868.5	872.0	877.9	879.0	883.7	890.7	147.5°	12.9	12.9
939.8	935.2	931.7	927.0	924.6	922.3	921.1	917.6	921.1	923.5	150°	11.7	11.7
1046.2	1029.8	1013.5	997.1	988.9	979.6	967.9	956.2	953.9	953.9	152.5°	9.4	9.4
1188.8	1161.9	1135.0	1107.0	1082.4	1057.9	1033.4	1007.6	998.3	988.9	155°	7.0	7.0
1449.5	1401.6	1357.2	1308.1	1254.3	1202.8	1147.9	1100.0	1077.8	1055.6	157.5°	7.0	7.0
1751.1	1686.8	1630.7	1569.9	1500.9	1432.0	1353.6	1280.0	1235.6	1190.0	160°	5.8	5.8
2022.3	1960.3	1901.9	1829.4	1738.2	1647.0	1553.5	1464.7	1409.8	1356.0	162.5°	5.8	5.8
2063.2	2019.9	1970.8	1924.1	1868.0	1814.2	1744.1	1659.9	1600.3	1546.5	165°	5.8	5.8
1958.0	1919.4	1875.0	1835.3	1802.5	1769.8	1724.2	1675.1	1654.1	1634.2	167.5°	4.7	4.7
1827.1	1789.7	1748.7	1711.3	1683.3	1654.1	1615.5	1579.3	1578.1	1576.9	170°	3.5	3.5
1689.1	1651.7	1608.5	1569.9	1539.5	1507.9	1475.2	1444.8	1446.0	1446.0	172.5°	4.7	4.7
1483.4	1461.2	1429.6	1402.7	1379.4	1356.0	1327.9	1302.2	1297.5	1291.7	175°	3.5	2.3
1164.3	1152.6	1135.0	1122.2	1130.4	1138.6	1139.7	1137.4	1138.6	1140.9	177.5°	2.3	2.3
798.4	801.9	797.2	799.6	825.3	849.8	868.5	888.4	911.8	935.2	180°	0.0	0.0
467.6	483.9	496.8	514.3	544.7	576.3	602.0	631.2	659.3	686.2			
260.7	274.7	284.1	296.9	330.8	363.5	391.6	417.3	439.5	462.9			
167.2	173.0	176.5	183.5	201.1	218.6	238.5	258.3	277.0	299.3			
140.3	137.9	133.3	128.6	136.8	144.9	159.0	171.8	183.5	195.2			
126.2	123.9	118.1	114.6	116.9	116.9	122.7	128.6	133.3	137.9			
108.7	106.4	102.9	100.5	101.7	102.9	102.9	104.0	105.2	106.4			
74.8	74.8	76.0	76.0	79.5	79.5	79.5	80.7	81.8	80.7			
47.9	51.4	52.6	53.8	57.3	59.6	60.8	62.0	62.0	62.0			
36.2	39.7	42.1	43.3	43.3	45.6	44.4	44.4	44.4	44.4			
25.7	28.1	28.1	29.2	30.4	30.4	30.4	30.4	30.4	31.6			
17.5	19.9	21.0	21.0	22.2	22.2	22.2	21.0	21.0	22.2			
12.9	15.2	15.2	15.2	16.4	16.4	16.4	16.4	16.4	18.7			
12.9	14.0	12.9	12.9	14.0	15.2	15.2	15.2	15.2	16.4			
14.0	14.0	11.7	11.7	12.9	14.0	14.0	14.0	14.0	14.0			
11.7	11.7	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9			
9.4	11.7	11.7	11.7	12.9	14.0	14.0	14.0	14.0	14.0			
9.4	10.5	11.7	11.7	11.7	11.7	11.7	11.7	11.7	12.9			



REPORT NUMBER: P188107

CATALOG NUMBER: QDCAST1B (2PANEL)

B (2PANELS 0°TILT; 2PANELS 5°TILT)

<u>tinued):</u>									<u>CANDELA DISTRIBUTION (continued):</u>			
280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°		302.5°	305°	307.5°
8.2	9.4	9.4	9.4	10.5	10.5	10.5	10.5	11.7	0°	614.9	614.9	614.9
9.4	9.4	9.4	10.5	10.5	10.5	10.5	10.5	11.7	2.5°	611.4	611.4	612.5
8.2	8.2	8.2	9.4	10.5	10.5	10.5	10.5	11.7	5°	612.5	612.5	612.5
9.4	9.4	9.4	10.5	10.5	10.5	10.5	10.5	11.7	7.5°	619.5	619.5	621.9
9.4	10.5	10.5	10.5	10.5	11.7	10.5	10.5	11.7	10°	630.1	632.4	637.1
11.7	11.7	11.7	12.9	12.9	12.9	12.9	12.9	14.0	12.5°	651.1	655.8	662.8
12.9	11.7	11.7	12.9	12.9	14.0	12.9	12.9	14.0	15°	673.3	681.5	692.0
14.0	12.9	11.7	12.9	12.9	12.9	11.7	12.9	12.9	17.5°	697.9	708.4	721.2
15.2	14.0	12.9	11.7	12.9	14.0	14.0	14.0	14.0	20°	723.6	734.1	749.3
15.2	15.2	15.2	15.2	16.4	15.2	14.0	12.9	14.0	22.5°	750.5	763.3	778.5
15.2	14.0	14.0	15.2	15.2	15.2	15.2	15.2	14.0	25°	776.2	790.2	804.2
14.0	12.9	12.9	14.0	14.0	15.2	15.2	15.2	16.4	27.5°	803.1	817.1	830.0
14.0	12.9	12.9	14.0	15.2	15.2	14.0	16.4	16.4	30°	830.0	842.8	853.3
12.9	12.9	12.9	12.9	12.9	14.0	14.0	16.4	16.4	32.5°	865.0	874.4	879.0
11.7	11.7	11.7	11.7	11.7	12.9	14.0	14.0	15.2	35°	896.6	902.4	902.4
10.5	10.5	10.5	10.5	10.5	11.7	11.7	11.7	12.9	37.5°	925.8	927.0	925.8
9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	10.5	40°	950.4	949.2	944.5
7.0	8.2	8.2	8.2	8.2	8.2	8.2	7.0	9.4	42.5°	979.6	970.2	964.4
7.0	7.0	7.0	7.0	7.0	7.0	5.8	5.8	7.0	45°	1029.8	1008.8	1001.8
5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	47.5°	1140.9	1102.3	1089.5
5.8	5.8	5.8	5.8	5.8	5.8	4.7	4.7	4.7	50°	1299.9	1257.8	1240.3
5.8	4.7	4.7	4.7	3.5	3.5	3.5	3.5	3.5	52.5°	1491.6	1440.1	1420.3
4.7	4.7	4.7	4.7	3.5	3.5	3.5	3.5	3.5	55°	1614.3	1583.9	1554.7
3.5	3.5	3.5	2.3	2.3	2.3	2.3	2.3	2.3	57.5°	1573.4	1572.2	1555.9
4.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	60°	1444.8	1451.8	1441.3
2.3	1.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	62.5°	1284.7	1290.5	1288.2
2.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	65°	1145.6	1154.9	1147.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	956.2	977.2	971.4
									70°	710.7	735.3	739.9
									72.5°	481.6	507.3	520.2
									75°	313.3	335.5	346.0
									77.5°	205.7	217.4	225.6
									80°	142.6	147.3	152.0
									82.5°	106.4	107.5	109.9
									85°	79.5	79.5	81.8
									87.5°	59.6	59.6	62.0
									90°	43.3	43.3	43.3
									92.5°	30.4	30.4	30.4
									95°	21.0	19.9	19.9
									97.5°	17.5	17.5	17.5
									100°	15.2	15.2	15.2
									102.5°	12.9	12.9	12.9
									105°	11.7	11.7	11.7
									107.5°	11.7	11.7	11.7
									110°	11.7	11.7	11.7



REPORT NUMBER: P188107

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

S 0°TILT; 2PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°		302.5°	305°	307.5°	310°
614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.9	112.5°	11.7	11.7	11.7	10.5
612.5	612.5	612.5	613.7	612.5	613.7	613.7	614.9	115°	11.7	11.7	11.7	10.5
613.7	613.7	613.7	614.9	614.9	617.2	617.2	617.2	117.5°	10.5	10.5	10.5	9.4
623.1	624.2	624.2	624.2	625.4	625.4	626.6	627.7	120°	11.7	11.7	11.7	10.5
640.6	642.9	646.4	648.8	651.1	652.3	652.3	653.4	122.5°	10.5	10.5	10.5	9.4
669.8	674.5	680.3	686.2	688.5	687.3	688.5	688.5	125°	12.9	11.7	11.7	10.5
703.7	713.1	721.2	725.9	729.4	729.4	731.8	727.1	127.5°	12.9	12.9	12.9	12.9
734.1	745.8	756.3	761.0	766.8	771.5	776.2	770.3	130°	12.9	12.9	12.9	11.7
763.3	777.4	786.7	793.7	799.6	803.1	807.7	797.2	132.5°	14.0	12.9	12.9	14.0
792.5	807.7	819.4	822.9	826.4	826.4	825.3	817.1	135°	12.9	12.9	14.0	14.0
819.4	831.1	842.8	844.0	848.7	848.7	844.0	835.8	137.5°	15.2	15.2	15.2	16.4
842.8	853.3	862.7	866.2	870.9	872.0	869.7	860.3	140°	16.4	15.2	17.5	16.4
866.2	876.7	887.2	893.1	898.9	898.9	896.6	891.9	142.5°	17.5	16.4	16.4	17.5
887.2	897.8	907.1	914.1	922.3	923.5	924.6	922.3	145°	17.5	16.4	15.2	17.5
907.1	916.5	924.6	932.8	938.7	941.0	942.2	946.8	147.5°	15.2	14.0	12.9	14.0
925.8	934.0	939.8	943.3	948.0	952.7	957.4	967.9	150°	12.9	12.9	12.9	14.0
943.3	945.7	949.2	957.4	962.0	970.2	978.4	993.6	152.5°	10.5	10.5	10.5	11.7
963.2	963.2	964.4	970.2	979.6	990.1	1001.8	1025.2	155°	9.4	9.4	8.2	10.5
995.9	992.4	992.4	1006.5	1019.3	1038.0	1057.9	1095.3	157.5°	7.0	7.0	7.0	8.2
1077.8	1069.6	1068.4	1090.6	1115.2	1144.4	1180.6	1229.7	160°	5.8	5.8	5.8	5.8
1226.2	1214.5	1216.9	1248.4	1277.7	1316.2	1363.0	1398.1	162.5°	4.7	4.7	4.7	4.7
1403.9	1386.4	1394.6	1402.7	1414.4	1429.6	1449.5	1471.7	165°	3.5	3.5	3.5	3.5
1530.2	1507.9	1499.8	1493.9	1488.1	1488.1	1495.1	1515.0	167.5°	3.5	3.5	3.5	3.5
1540.7	1526.6	1515.0	1504.4	1497.4	1493.9	1481.1	1489.2	170°	2.3	2.3	2.3	2.3
1435.5	1428.5	1419.1	1415.6	1415.6	1413.3	1394.6	1394.6	172.5°	2.3	2.3	2.3	3.5
1285.8	1282.3	1277.7	1281.2	1283.5	1287.0	1271.8	1255.5	175°	1.2	1.2	1.2	1.2
1140.9	1133.9	1124.5	1119.9	1115.2	1109.3	1093.0	1076.6	177.5°	1.2	1.2	1.2	1.2
966.7	962.0	959.7	944.5	935.2	922.3	896.6	884.9	180°	0.0	0.0	0.0	0.0
744.6	748.1	750.5	745.8	738.8	731.8	708.4	693.2					
529.5	538.9	542.4	541.2	540.1	538.9	521.4	506.2					
355.4	361.2	365.9	371.7	376.4	377.6	369.4	356.5					
232.6	236.1	239.6	246.6	252.5	256.0	251.3	239.6					
155.5	157.8	157.8	162.5	167.2	167.2	164.8	156.6					
113.4	113.4	113.4	114.6	115.7	114.6	112.2	108.7					
84.2	86.5	87.7	88.8	88.8	87.7	85.3	86.5					
64.3	64.3	66.6	67.8	65.5	65.5	63.1	63.1					
43.3	42.1	40.9	42.1	40.9	39.7	38.6	39.7					
29.2	28.1	26.9	25.7	28.1	25.7	25.7	25.7					
21.0	19.9	19.9	18.7	21.0	21.0	19.9	19.9					
17.5	15.2	15.2	15.2	17.5	17.5	16.4	16.4					
16.4	12.9	12.9	12.9	12.9	11.7	11.7	11.7					
12.9	10.5	10.5	10.5	12.9	12.9	11.7	11.7					
11.7	10.5	9.4	9.4	10.5	10.5	10.5	11.7					
11.7	9.4	9.4	10.5	11.7	11.7	11.7	11.7					
10.5	9.4	9.4	9.4	12.9	12.9	12.9	12.9					



REPORT NUMBER: P188107

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°

:PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

312.5°	315°	317.5°	320°	322.5°	325°	327.5°		330°	332.5°	335°	337.5°	340°
9.4	9.4	9.4	10.5	10.5	10.5	11.7	0°	614.9	614.9	614.9	614.9	614.9
9.4	9.4	9.4	10.5	10.5	10.5	11.7	2.5°	614.9	613.7	614.9	616.0	616.0
9.4	9.4	10.5	11.7	11.7	11.7	11.7	5°	618.4	618.4	619.5	618.4	618.4
9.4	9.4	9.4	10.5	10.5	10.5	11.7	7.5°	628.9	630.1	630.1	631.2	631.2
9.4	9.4	9.4	11.7	11.7	11.7	12.9	10°	653.4	654.6	655.8	655.8	655.8
10.5	10.5	10.5	11.7	11.7	11.7	12.9	12.5°	687.3	685.0	683.8	682.7	680.3
12.9	12.9	12.9	14.0	14.0	14.0	15.2	15°	721.2	716.6	711.9	706.0	699.0
11.7	12.9	12.9	15.2	15.2	15.2	16.4	17.5°	761.0	751.6	742.3	730.6	721.2
14.0	14.0	12.9	14.0	14.0	15.2	15.2	20°	787.9	776.2	763.3	751.6	741.1
15.2	15.2	15.2	16.4	16.4	16.4	15.2	22.5°	806.6	796.1	785.5	773.8	762.2
15.2	15.2	15.2	17.5	16.4	16.4	16.4	25°	827.6	817.1	806.6	796.1	783.2
17.5	17.5	16.4	17.5	17.5	17.5	16.4	27.5°	853.3	845.2	833.5	824.1	812.4
17.5	17.5	15.2	16.4	15.2	14.0	14.0	30°	886.1	879.0	869.7	859.2	847.5
17.5	16.4	15.2	16.4	15.2	15.2	14.0	32.5°	922.3	915.3	907.1	897.8	887.2
14.0	14.0	12.9	15.2	15.2	15.2	14.0	35°	951.5	948.0	943.3	935.2	929.3
14.0	12.9	12.9	12.9	12.9	12.9	12.9	37.5°	979.6	983.1	983.1	983.1	980.7
11.7	10.5	10.5	12.9	12.9	11.7	11.7	40°	1008.8	1019.3	1028.7	1040.4	1053.2
10.5	10.5	10.5	9.4	8.2	8.2	8.2	42.5°	1050.9	1078.9	1105.8	1136.2	1167.8
8.2	8.2	7.0	8.2	8.2	8.2	8.2	45°	1138.6	1193.5	1247.3	1303.4	1366.5
5.8	5.8	5.8	5.8	4.7	4.7	4.7	47.5°	1291.7	1364.2	1437.8	1485.7	1541.8
4.7	4.7	3.5	4.7	4.7	4.7	4.7	50°	1441.3	1492.7	1539.5	1574.6	1622.5
3.5	3.5	3.5	3.5	3.5	2.3	2.3	52.5°	1497.4	1527.8	1559.4	1588.6	1637.7
3.5	3.5	3.5	2.3	2.3	2.3	2.3	55°	1534.8	1550.0	1561.7	1568.7	1596.8
1.2	1.2	1.2	2.3	2.3	2.3	2.3	57.5°	1490.4	1484.6	1474.0	1469.4	1492.7
2.3	2.3	2.3	2.3	2.3	1.2	1.2	60°	1391.0	1381.7	1365.3	1334.9	1342.0
1.2	1.2	1.2	1.2	1.2	1.2	1.2	62.5°	1239.1	1214.5	1176.0	1146.7	1147.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	1060.2	1035.7	992.4	962.0	950.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	872.0	849.8	808.9	769.2	738.8
							70°	678.0	648.8	606.7	569.3	535.4
							72.5°	492.1	471.1	437.2	400.9	368.2
							75°	341.3	326.1	301.6	270.0	244.3
							77.5°	229.1	217.4	201.1	178.8	161.3
							80°	149.6	142.6	134.4	122.7	115.7
							82.5°	105.2	102.9	98.2	94.7	91.2
							85°	85.3	84.2	84.2	81.8	81.8
							87.5°	65.5	63.1	64.3	64.3	64.3
							90°	40.9	40.9	39.7	39.7	40.9
							92.5°	26.9	26.9	25.7	25.7	25.7
							95°	21.0	18.7	18.7	18.7	17.5
							97.5°	17.5	16.4	16.4	16.4	16.4
							100°	14.0	12.9	12.9	12.9	12.9
							102.5°	14.0	14.0	14.0	14.0	14.0
							105°	12.9	12.9	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: P188107

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

°TILT)

CANDELA DISTRIBUTION (continued):

342.5°	345°	347.5°	350°	352.5°	355°		330°	332.5°	335°	337.5°	340°	342.5°
614.9	614.9	614.9	614.9	614.9	614.9	112.5°	11.7	11.7	10.5	10.5	10.5	9.4
616.0	617.2	617.2	617.2	616.0	617.2	115°	11.7	11.7	10.5	10.5	10.5	10.5
619.5	619.5	620.7	620.7	621.9	620.7	117.5°	11.7	11.7	10.5	10.5	11.7	11.7
632.4	631.2	630.1	631.2	631.2	628.9	120°	12.9	12.9	11.7	11.7	12.9	12.9
655.8	653.4	651.1	649.9	649.9	649.9	122.5°	12.9	12.9	11.7	11.7	12.9	12.9
676.8	676.8	673.3	672.1	669.8	667.5	125°	12.9	12.9	11.7	11.7	12.9	12.9
694.4	692.0	688.5	686.2	683.8	682.7	127.5°	15.2	15.2	14.0	14.0	14.0	12.9
713.1	706.0	700.2	697.9	696.7	697.9	130°	16.4	16.4	15.2	15.2	16.4	16.4
731.8	720.1	714.2	715.4	713.1	713.1	132.5°	16.4	16.4	15.2	16.4	15.2	16.4
749.3	735.3	732.9	731.8	730.6	729.4	135°	16.4	16.4	16.4	15.2	15.2	15.2
770.3	758.6	756.3	754.0	751.6	749.3	137.5°	16.4	16.4	16.4	15.2	16.4	16.4
800.7	791.4	787.9	783.2	779.7	776.2	140°	17.5	17.5	16.4	15.2	14.0	15.2
832.3	824.1	821.8	817.1	812.4	811.3	142.5°	15.2	15.2	15.2	14.0	14.0	14.0
875.5	868.5	867.4	865.0	860.3	861.5	145°	14.0	14.0	12.9	12.9	12.9	11.7
923.5	922.3	925.8	927.0	928.1	932.8	147.5°	14.0	12.9	12.9	11.7	11.7	10.5
985.4	992.4	1003.0	1010.0	1015.8	1027.5	150°	12.9	11.7	11.7	11.7	10.5	10.5
1074.3	1096.5	1119.9	1137.4	1156.1	1176.0	152.5°	10.5	9.4	9.4	9.4	8.2	9.4
1215.7	1263.6	1305.7	1344.3	1382.9	1419.1	155°	8.2	8.2	8.2	8.2	8.2	5.8
1443.7	1519.6	1572.2	1624.8	1670.4	1712.5	157.5°	8.2	7.0	7.0	7.0	7.0	5.8
1609.6	1673.9	1730.0	1782.6	1829.4	1869.2	160°	5.8	4.7	4.7	4.7	4.7	4.7
1682.1	1735.9	1792.0	1851.6	1901.9	1949.8	162.5°	5.8	5.8	5.8	5.8	5.8	5.8
1688.0	1728.9	1772.1	1817.7	1865.6	1910.1	165°	3.5	3.5	3.5	4.7	4.7	4.7
1628.3	1652.9	1684.5	1725.4	1766.3	1809.5	167.5°	3.5	3.5	4.7	4.7	4.7	4.7
1519.6	1544.2	1561.7	1592.1	1623.7	1656.4	170°	3.5	3.5	3.5	3.5	3.5	3.5
1347.8	1350.1	1364.2	1392.2	1420.3	1448.3	172.5°	2.3	2.3	2.3	2.3	2.3	2.3
1147.9	1140.9	1150.2	1173.6	1197.0	1220.4	175°	2.3	2.3	1.2	1.2	1.2	1.2
936.3	921.1	916.5	923.5	930.5	944.5	177.5°	1.2	1.2	1.2	1.2	1.2	1.2
707.2	679.2	671.0	662.8	655.8	662.8	180°	0.0	0.0	0.0	0.0	0.0	0.0
502.6	476.9	459.4	439.5	420.8	415.0							
333.2	307.4	292.2	272.4	253.7	245.5							
213.9	195.2	185.9	176.5	167.2	161.3							
144.9	135.6	135.6	137.9	136.8	139.1							
111.1	109.9	112.2	115.7	118.1	122.7							
92.3	92.3	93.5	97.0	98.2	100.5							
79.5	78.3	80.7	80.7	81.8	81.8							
63.1	62.0	60.8	60.8	57.3	57.3							
39.7	38.6	35.1	33.9	29.2	25.7							
24.5	23.4	22.2	21.0	17.5	15.2							
17.5	16.4	17.5	16.4	14.0	12.9							
14.0	12.9	12.9	14.0	12.9	12.9							
12.9	11.7	11.7	12.9	11.7	11.7							
12.9	11.7	11.7	12.9	11.7	11.7							
12.9	12.9	12.9	11.7	10.5	10.5							
10.5	10.5	9.4	9.4	9.4	8.2							
11.7	10.5	10.5	10.5	8.2	8.2							

REPORT NUMBER: P188107

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

345°	347.5°	350°	352.5°	355°		357.5°	360°
9.4	9.4	9.4	8.2	8.2	0°	614.9	614.9
10.5	9.4	9.4	8.2	7.0	2.5°	617.2	618.4
11.7	10.5	9.4	9.4	7.0	5°	623.1	625.4
12.9	11.7	11.7	10.5	9.4	7.5°	630.1	631.2
12.9	11.7	12.9	12.9	11.7	10°	649.9	649.9
11.7	12.9	14.0	14.0	14.0	12.5°	667.5	669.8
12.9	12.9	15.2	16.4	17.5	15°	681.5	680.3
17.5	17.5	16.4	15.2	15.2	17.5°	696.7	695.5
16.4	15.2	16.4	16.4	16.4	20°	715.4	714.2
14.0	14.0	14.0	14.0	14.0	22.5°	731.8	732.9
16.4	15.2	14.0	12.9	12.9	25°	751.6	754.0
14.0	14.0	12.9	12.9	12.9	27.5°	778.5	778.5
12.9	12.9	11.7	11.7	11.7	30°	812.4	812.4
11.7	11.7	10.5	10.5	10.5	32.5°	865.0	866.2
10.5	9.4	9.4	9.4	9.4	35°	936.3	941.0
10.5	9.4	9.4	8.2	8.2	37.5°	1035.7	1041.5
9.4	8.2	9.4	9.4	9.4	40°	1192.3	1202.8
5.8	7.0	8.2	8.2	8.2	42.5°	1442.5	1464.7
7.0	7.0	7.0	7.0	7.0	45°	1739.4	1762.8
4.7	5.8	5.8	5.8	5.8	47.5°	1901.9	1924.1
5.8	5.8	5.8	5.8	5.8	50°	1988.4	2002.4
4.7	4.7	4.7	4.7	4.7	52.5°	1951.0	1962.7
4.7	4.7	4.7	4.7	4.7	55°	1842.3	1848.1
3.5	3.5	3.5	3.5	3.5	57.5°	1693.8	1695.0
2.3	2.3	3.5	3.5	3.5	60°	1482.2	1479.9
1.2	2.3	2.3	1.2	1.2	62.5°	1257.8	1262.5
1.2	1.2	1.2	1.2	1.2	65°	976.1	978.4
0.0	0.0	0.0	0.0	0.0	67.5°	679.2	688.5
					70°	417.3	420.8
					72.5°	242.0	240.8
					75°	160.1	159.0
					77.5°	141.4	143.8
					80°	125.1	127.4
					82.5°	104.0	102.9
					85°	83.0	84.2
					87.5°	57.3	56.1
					90°	25.7	22.2
					92.5°	15.2	15.2
					95°	12.9	12.9
					97.5°	12.9	11.7
					100°	11.7	11.7
					102.5°	11.7	10.5
					105°	10.5	10.5
					107.5°	8.2	9.4
					110°	7.0	7.0

REPORT NUMBER: P188107

CATALOG NUMBER: QDCAST1B (2PANELS 0°TILT; 2PANELS 5°TILT)

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	7.0	7.0
115°	7.0	7.0
117.5°	7.0	7.0
120°	9.4	8.2
122.5°	12.9	12.9
125°	15.2	16.4
127.5°	16.4	16.4
130°	14.0	14.0
132.5°	15.2	15.2
135°	14.0	14.0
137.5°	12.9	12.9
140°	12.9	12.9
142.5°	11.7	11.7
145°	10.5	10.5
147.5°	9.4	9.4
150°	9.4	9.4
152.5°	9.4	9.4
155°	8.2	8.2
157.5°	7.0	7.0
160°	5.8	5.8
162.5°	5.8	5.8
165°	3.5	4.7
167.5°	4.7	4.7
170°	4.7	4.7
172.5°	3.5	3.5
175°	1.2	1.2
177.5°	1.2	1.2
180°	0.0	0.0

(END OF REPORT)