

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P935357

Luminaire Tested: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935357
REPORT IS A COMBINATION OF REPORTS P933750 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

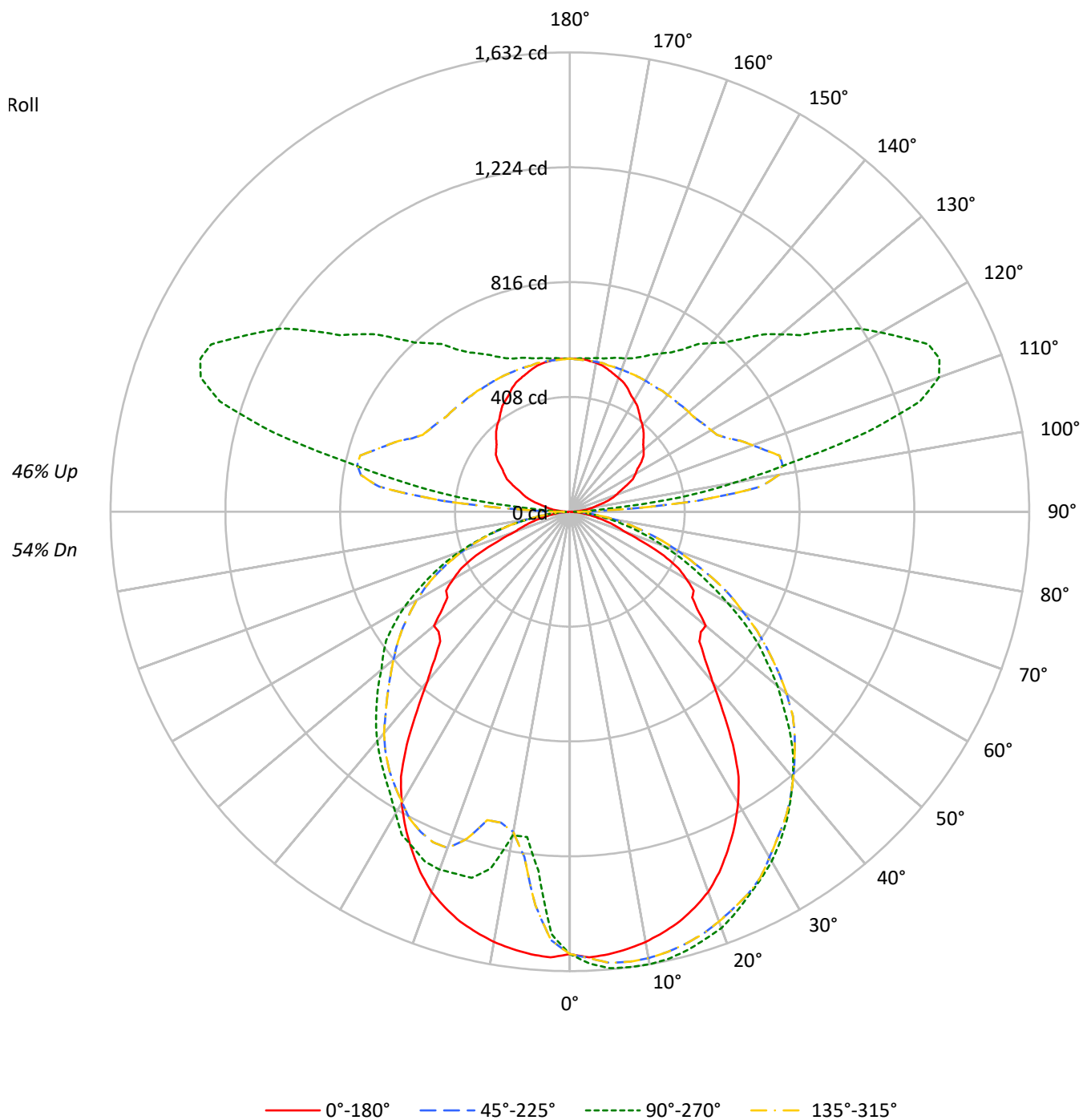
Lumens per Lamp: N/A
Luminaire Lumens: 7604.3 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 68.8
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: 24 FT

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CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3000K

Luminous Intensity Polar Plot



TEST NUMBER: P935357

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42
3	82	72	65	59	76	67	61	56	58	53	49	49	46	42	41	38	36
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31
5	69	57	49	43	64	53	46	41	46	40	36	39	35	31	33	30	27
6	63	51	43	37	59	48	41	35	41	36	31	35	31	28	30	26	24
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	22	19
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14579	14579	14579	14579
5°	14671	14717	14671	11572
10°	14557	14497	14557	10364
15°	14383	14182	14383	11842
20°	14065	13811	14065	11867
25°	13433	13267	13433	11615
30°	12622	12817	12622	11063
35°	11237	12247	11237	10457
40°	9346	11576	9346	9998
45°	8335	10791	8335	9471
50°	8834	9854	8834	8942
55°	8290	8845	8290	8636
60°	8513	7513	8513	7910
65°	7681	6210	7681	6942
70°	5283	4950	5283	5818
75°	4581	3659	4581	4382
80°	3618	2419	3618	2632
85°	1971	1282	1971	1088

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 12798 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	1.9
10°-20°	402.7	5.3
20°-30°	622.4	8.2
30°-40°	743.1	9.8
40°-50°	747.4	9.8
50°-60°	650.3	8.6
60°-70°	461.1	6.1
70°-80°	244.0	3.2
80°-90°	62.8	0.8
90°-100°	265.3	3.5
100°-110°	697.6	9.2
110°-120°	723.3	9.5
120°-130°	580.2	7.6
130°-140°	455.2	6.0
140°-150°	349.4	4.6
150°-160°	251.6	3.3
160°-170°	154.0	2.0
170°-180°	52.0	0.7
0°-30°	1166.9	15.3
0°-40°	1910.0	25.1
0°-60°	3307.7	43.5
0°-90°	4075.6	53.6
90°-120°	1686.2	22.2
90°-150°	3071.0	40.4
90°-180°	3529.0	46.4
0°-180°	7604.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1571	1571	1571	1571	1571	
5°	1578	1628	1578	1280	1578	150
15°	1507	1613	1507	1347	1507	424
25°	1327	1504	1327	1317	1327	609
35°	1009	1342	1009	1146	1009	624
45°	651	1106	651	971	651	521
55°	531	816	531	797	531	488
65°	369	492	369	550	369	352
75°	140	233	140	280	140	147
85°	24	60	24	50	24	32
90°	4	14	4	14	4	4
95°	35	160	35	160	35	39
105°	126	1092	126	1092	126	133
115°	223	1406	223	1406	223	220
125°	311	1120	311	1120	311	276
135°	370	869	370	869	370	286
145°	429	705	429	705	429	269
155°	485	607	485	607	485	223
165°	524	566	524	566	524	148
175°	544	548	544	548	544	52
180°	544	544	544	544	544	

TEST NUMBER: P935357

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1584.5	1584.5	1593.4	1596.4	1596.4	1591.9	1587.4	1591.9	1605.3	1609.8	1608.3
5°	1578.5	1590.4	1606.8	1609.8	1612.7	1611.2	1608.3	1611.2	1626.1	1629.1	1630.6
7.5°	1566.6	1588.9	1609.8	1614.2	1618.6	1614.2	1612.7	1615.7	1630.6	1633.6	1633.6
10°	1551.8	1583.0	1606.8	1609.8	1614.2	1609.8	1609.8	1615.7	1630.6	1633.6	1635.0
12.5°	1531.0	1574.1	1596.4	1599.3	1605.3	1603.8	1602.3	1608.3	1623.1	1626.1	1626.1
15°	1507.2	1557.8	1578.5	1581.5	1591.9	1588.9	1588.9	1594.9	1611.2	1615.7	1614.2
17.5°	1474.5	1536.9	1560.7	1565.1	1572.6	1571.1	1572.6	1578.5	1593.4	1596.4	1597.8
20°	1437.3	1508.7	1536.9	1541.3	1548.8	1548.8	1548.8	1556.3	1571.1	1577.1	1577.1
22.5°	1386.7	1479.0	1508.7	1511.6	1520.5	1520.5	1523.5	1534.0	1547.3	1548.8	1548.8
25°	1327.3	1446.2	1471.5	1480.5	1489.3	1493.8	1498.3	1504.2	1508.7	1507.2	1508.7
27.5°	1264.9	1404.6	1437.3	1443.2	1455.2	1459.6	1465.5	1467.0	1468.5	1473.0	1470.0
30°	1195.0	1346.6	1395.7	1401.7	1421.0	1423.9	1418.0	1421.0	1428.4	1431.4	1434.4
32.5°	1116.2	1260.4	1352.6	1365.9	1383.9	1374.9	1373.4	1377.9	1389.7	1389.7	1392.7
35°	1009.3	1193.5	1312.4	1324.4	1337.7	1327.3	1333.3	1334.8	1342.2	1346.6	1345.2
37.5°	891.8	1135.6	1270.8	1279.8	1290.1	1276.8	1285.7	1290.1	1296.1	1293.1	1293.1
40°	787.7	1044.9	1221.8	1227.8	1236.6	1226.3	1235.2	1238.1	1241.1	1238.1	1236.6
42.5°	710.5	945.3	1169.8	1177.2	1171.2	1178.7	1181.7	1187.6	1183.2	1177.2	1177.2
45°	651.0	918.6	1113.2	1122.2	1113.2	1125.2	1129.7	1129.7	1116.2	1113.2	1111.8
47.5°	631.7	865.0	1056.8	1056.8	1052.4	1067.2	1074.6	1064.2	1050.9	1046.4	1046.4
50°	630.2	805.6	979.5	973.6	994.4	1012.2	1004.8	994.4	984.0	967.6	967.6
52.5°	572.2	732.8	880.0	902.2	935.0	945.3	933.5	923.0	905.2	897.8	891.8
55°	530.7	657.0	789.2	833.9	868.0	881.4	859.2	848.7	822.0	817.5	814.5
57.5°	521.7	547.0	706.1	762.5	804.1	802.7	789.2	769.9	747.6	743.2	741.7
60°	478.6	395.4	616.8	683.8	726.8	722.4	710.5	692.6	671.8	668.8	665.9
62.5°	434.1	286.9	515.7	591.5	652.5	651.0	640.6	613.8	599.0	591.5	585.7
65°	368.6	240.8	367.1	492.0	579.7	582.7	560.4	541.0	524.7	515.7	514.2
67.5°	280.9	196.2	248.2	410.3	509.9	506.9	478.6	469.7	448.9	444.4	435.5
70°	208.1	130.8	172.4	333.0	441.4	434.1	411.7	401.3	382.0	371.6	365.6
72.5°	172.4	105.6	126.3	258.7	371.6	362.7	343.3	331.5	315.1	306.2	300.2
75°	139.7	111.5	96.6	191.7	301.7	295.8	278.0	266.0	252.7	240.8	242.2
77.5°	102.6	104.1	77.3	141.2	239.3	230.4	220.0	205.1	199.2	187.3	187.3
80°	77.3	81.8	58.0	96.6	172.4	172.4	163.5	153.1	142.7	136.8	136.8
82.5°	52.0	52.0	43.1	61.0	117.4	112.9	107.0	104.1	98.1	95.1	95.1
85°	23.8	29.7	26.8	37.2	63.9	66.9	66.9	63.9	62.4	59.5	61.0
87.5°	7.5	13.4	16.3	20.8	32.7	34.2	35.7	35.7	35.7	37.2	37.2
90°	3.7	6.6	9.5	10.2	16.1	23.9	27.8	24.7	18.5	13.9	13.9
92.5°	14.6	39.4	64.3	70.5	99.2	137.3	156.3	137.0	98.4	69.4	66.7
95°	35.0	80.5	126.0	137.4	243.9	385.9	457.0	407.8	309.4	235.6	227.3
97.5°	60.6	100.7	140.9	150.9	328.6	565.5	683.8	652.8	590.6	543.9	528.0
100°	80.4	116.7	153.1	162.2	359.4	622.3	753.7	756.0	760.4	763.9	744.9
102.5°	97.1	131.1	165.0	173.6	373.5	640.1	773.4	813.0	892.3	951.6	935.4
105°	125.7	154.4	183.1	190.3	384.0	642.1	771.2	860.0	1037.6	1170.9	1162.2
107.5°	154.9	181.7	208.5	215.2	385.9	613.5	727.3	851.2	1099.0	1284.9	1287.0
110°	174.6	198.8	223.0	229.1	382.9	588.2	690.8	829.3	1106.3	1314.0	1323.2

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CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	194.0	217.0	240.0	245.8	383.1	566.1	657.6	799.3	1082.8	1295.4	1309.4
115°	223.2	244.4	265.7	271.0	386.6	540.8	617.8	754.4	1027.4	1232.3	1251.6
117.5°	252.1	271.4	290.7	295.5	393.8	524.9	590.4	713.6	960.1	1145.0	1166.4
120°	268.8	287.0	305.2	309.8	399.6	519.5	579.4	692.0	917.2	1086.1	1107.0
122.5°	285.4	303.7	322.1	326.6	408.1	516.7	571.0	672.3	875.1	1027.3	1047.8
125°	310.6	327.3	343.9	348.2	419.4	514.3	561.8	648.0	820.2	949.4	968.4
127.5°	330.9	347.8	364.8	369.0	430.7	513.0	554.2	628.2	776.1	887.0	903.0
130°	341.9	360.1	378.3	382.9	439.0	513.9	551.3	617.2	748.8	847.6	862.3
132.5°	353.3	371.4	389.6	394.2	445.6	514.3	548.7	607.6	725.5	813.9	827.2
135°	370.1	386.6	403.2	407.4	453.0	513.9	544.4	593.7	692.4	766.4	777.8
137.5°	387.2	403.7	420.0	424.1	463.9	517.1	543.6	585.3	668.7	731.4	740.7
140°	401.5	416.6	431.7	435.5	470.7	517.6	541.0	577.0	649.2	703.3	712.0
142.5°	412.5	426.4	440.4	443.9	476.3	519.4	541.0	572.7	636.0	683.5	691.0
145°	429.2	441.4	453.6	456.6	483.6	519.5	537.4	563.3	615.1	653.9	659.6
147.5°	446.1	457.9	469.7	472.7	494.3	523.0	537.4	557.8	598.6	629.1	633.9
150°	457.0	467.7	478.4	481.1	499.9	525.0	537.4	554.6	589.0	614.8	618.6
152.5°	468.3	476.4	484.6	486.6	503.5	526.1	537.4	552.1	581.4	603.5	606.4
155°	485.2	491.1	497.2	498.7	511.6	528.8	537.4	549.1	572.5	590.0	591.9
157.5°	497.6	503.4	509.2	510.7	519.6	531.5	537.4	546.5	564.7	578.3	579.6
160°	506.0	510.6	515.0	516.2	523.3	532.7	537.4	545.2	560.8	572.5	573.3
162.5°	514.3	517.8	521.2	522.1	527.2	534.0	537.4	544.0	557.1	566.9	567.6
165°	523.5	526.5	529.6	530.4	532.8	535.9	537.4	542.2	551.6	558.6	559.4
167.5°	531.9	533.4	534.9	535.2	537.2	539.7	541.0	544.1	550.3	554.9	555.3
170°	537.4	538.8	540.3	540.7	540.8	540.9	541.0	544.1	550.3	554.9	554.9
172.5°	540.3	540.7	540.9	541.0	541.0	541.0	541.0	543.5	548.3	552.0	551.7
175°	544.4	544.4	544.4	544.4	543.2	541.7	541.0	542.6	545.7	548.0	548.0
177.5°	544.4	544.4	544.4	544.4	543.5	542.4	541.7	543.0	545.4	547.3	546.9
180°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1611.2	1606.8	1611.2	1608.3	1609.8	1605.3	1591.9	1587.4	1591.9	1596.4	1596.4
5°	1630.6	1627.6	1630.6	1630.6	1629.1	1626.1	1611.2	1608.3	1611.2	1612.7	1609.8
7.5°	1636.5	1632.1	1636.5	1633.6	1633.6	1630.6	1615.7	1612.7	1614.2	1618.6	1614.2
10°	1636.5	1632.1	1636.5	1635.0	1633.6	1630.6	1615.7	1609.8	1609.8	1614.2	1609.8
12.5°	1629.1	1626.1	1629.1	1626.1	1626.1	1623.1	1608.3	1602.3	1603.8	1605.3	1599.3
15°	1617.1	1612.7	1617.1	1614.2	1615.7	1611.2	1594.9	1588.9	1588.9	1591.9	1581.5
17.5°	1599.3	1593.4	1599.3	1597.8	1596.4	1593.4	1578.5	1572.6	1571.1	1572.6	1565.1
20°	1578.5	1574.1	1578.5	1577.1	1577.1	1571.1	1556.3	1548.8	1548.8	1548.8	1541.3
22.5°	1545.8	1541.3	1545.8	1548.8	1548.8	1547.3	1534.0	1523.5	1520.5	1520.5	1511.6
25°	1508.7	1504.2	1508.7	1508.7	1507.2	1508.7	1504.2	1498.3	1493.8	1489.3	1480.5
27.5°	1473.0	1470.0	1473.0	1470.0	1473.0	1468.5	1467.0	1465.5	1459.6	1455.2	1443.2
30°	1437.3	1434.4	1437.3	1434.4	1431.4	1428.4	1421.0	1418.0	1423.9	1421.0	1401.7
32.5°	1392.7	1389.7	1392.7	1392.7	1389.7	1389.7	1377.9	1373.4	1374.9	1383.9	1365.9
35°	1346.6	1342.2	1346.6	1345.2	1346.6	1342.2	1334.8	1333.3	1327.3	1337.7	1324.4
37.5°	1293.1	1288.6	1293.1	1293.1	1293.1	1296.1	1290.1	1285.7	1276.8	1290.1	1279.8
40°	1238.1	1232.2	1238.1	1236.6	1238.1	1241.1	1238.1	1235.2	1226.3	1236.6	1227.8
42.5°	1175.7	1174.2	1175.7	1177.2	1177.2	1183.2	1187.6	1181.7	1178.7	1171.2	1177.2
45°	1108.9	1105.9	1108.9	1111.8	1113.2	1116.2	1129.7	1129.7	1125.2	1113.2	1122.2
47.5°	1037.4	1030.1	1037.4	1046.4	1046.4	1050.9	1064.2	1074.6	1067.2	1052.4	1056.8
50°	961.7	963.1	961.7	967.6	967.6	984.0	994.4	1004.8	1012.2	994.4	973.6
52.5°	887.3	885.9	887.3	891.8	897.8	905.2	923.0	933.5	945.3	935.0	902.2
55°	813.0	816.0	813.0	814.5	817.5	822.0	848.7	859.2	881.4	868.0	833.9
57.5°	738.7	734.3	738.7	741.7	743.2	747.6	769.9	789.2	802.7	804.1	762.5
60°	652.5	646.6	652.5	665.9	668.8	671.8	692.6	710.5	722.4	726.8	683.8
62.5°	576.7	566.3	576.7	585.7	591.5	599.0	613.8	640.6	651.0	652.5	591.5
65°	496.4	492.0	496.4	514.2	515.7	524.7	541.0	560.4	582.7	579.7	492.0
67.5°	423.6	423.6	423.6	435.5	444.4	448.9	469.7	478.6	506.9	509.9	410.3
70°	356.8	355.3	356.8	365.6	371.6	382.0	401.3	411.7	434.1	441.4	333.0
72.5°	292.8	291.3	292.8	300.2	306.2	315.1	331.5	343.3	362.7	371.6	258.7
75°	236.4	233.4	236.4	242.2	240.8	252.7	266.0	278.0	295.8	301.7	191.7
77.5°	181.4	181.4	181.4	187.3	187.3	199.2	205.1	220.0	230.4	239.3	141.2
80°	135.3	133.8	135.3	136.8	136.8	142.7	153.1	163.5	172.4	172.4	96.6
82.5°	95.1	92.1	95.1	95.1	95.1	98.1	104.1	107.0	112.9	117.4	61.0
85°	59.5	59.5	59.5	61.0	59.5	62.4	63.9	66.9	66.9	63.9	37.2
87.5°	38.6	37.2	38.6	37.2	37.2	35.7	35.7	35.7	34.2	32.7	20.8
90°	13.9	13.9	13.9	13.9	13.9	18.5	24.7	27.8	23.9	16.1	10.2
92.5°	55.6	44.5	55.6	66.7	69.4	98.4	137.0	156.3	137.3	99.2	70.5
95°	193.8	160.4	193.8	227.3	235.6	309.4	407.8	457.0	385.9	243.9	137.4
97.5°	464.4	400.8	464.4	528.0	543.9	590.6	652.8	683.8	565.5	328.6	150.9
100°	669.1	593.3	669.1	744.9	763.9	760.4	756.0	753.7	622.3	359.4	162.2
102.5°	870.5	805.6	870.5	935.4	951.6	892.3	813.0	773.4	640.1	373.5	173.6
105°	1127.2	1092.3	1127.2	1162.2	1170.9	1037.6	860.0	771.2	642.1	384.0	190.3
107.5°	1295.4	1303.8	1295.4	1287.0	1284.9	1099.0	851.2	727.3	613.5	385.9	215.2
110°	1359.5	1395.9	1359.5	1323.2	1314.0	1106.3	829.3	690.8	588.2	382.9	229.1

TEST NUMBER: P935357

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1365.2	1421.1	1365.2	1309.4	1295.4	1082.8	799.3	657.6	566.1	383.1	245.8
115°	1329.0	1406.5	1329.0	1251.6	1232.3	1027.4	754.4	617.8	540.8	386.6	271.0
117.5°	1252.3	1338.2	1252.3	1166.4	1145.0	960.1	713.6	590.4	524.9	393.8	295.5
120°	1190.4	1273.9	1190.4	1107.0	1086.1	917.2	692.0	579.4	519.5	399.6	309.8
122.5°	1130.2	1212.5	1130.2	1047.8	1027.3	875.1	672.3	571.0	516.7	408.1	326.6
125°	1044.2	1120.1	1044.2	968.4	949.4	820.2	648.0	561.8	514.3	419.4	348.2
127.5°	967.0	1030.9	967.0	903.0	887.0	776.1	628.2	554.2	513.0	430.7	369.0
130°	921.4	980.5	921.4	862.3	847.6	748.8	617.2	551.3	513.9	439.0	382.9
132.5°	880.1	933.0	880.1	827.2	813.9	725.5	607.6	548.7	514.3	445.6	394.2
135°	823.4	869.1	823.4	777.8	766.4	692.4	593.7	544.4	513.9	453.0	407.4
137.5°	778.1	815.4	778.1	740.7	731.4	668.7	585.3	543.6	517.1	463.9	424.1
140°	746.9	781.8	746.9	712.0	703.3	649.2	577.0	541.0	517.6	470.7	435.5
142.5°	721.1	751.1	721.1	691.0	683.5	636.0	572.7	541.0	519.4	476.3	443.9
145°	682.4	705.1	682.4	659.6	653.9	615.1	563.3	537.4	519.5	483.6	456.6
147.5°	652.7	671.5	652.7	633.9	629.1	598.6	557.8	537.4	523.0	494.3	472.7
150°	633.9	649.2	633.9	618.6	614.8	589.0	554.6	537.4	525.0	499.9	481.1
152.5°	617.9	629.5	617.9	606.4	603.5	581.4	552.1	537.4	526.1	503.5	486.6
155°	599.5	607.2	599.5	591.9	590.0	572.5	549.1	537.4	528.8	511.6	498.7
157.5°	585.0	590.4	585.0	579.6	578.3	564.7	546.5	537.4	531.5	519.6	510.7
160°	576.3	579.4	576.3	573.3	572.5	560.8	545.2	537.4	532.7	523.3	516.2
162.5°	570.6	573.5	570.6	567.6	566.9	557.1	544.0	537.4	534.0	527.2	522.1
165°	562.5	565.5	562.5	559.4	558.6	551.6	542.2	537.4	535.9	532.8	530.4
167.5°	556.5	557.8	556.5	555.3	554.9	550.3	544.1	541.0	539.7	537.2	535.2
170°	554.9	554.9	554.9	554.9	554.9	550.3	544.1	541.0	540.9	540.8	540.7
172.5°	550.6	549.5	550.6	551.7	552.0	548.3	543.5	541.0	541.0	541.0	541.0
175°	548.0	548.0	548.0	548.0	548.0	545.7	542.6	541.0	541.7	543.2	544.4
177.5°	545.7	544.4	545.7	546.9	547.3	545.4	543.0	541.7	542.4	543.5	544.4
180°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4

TEST NUMBER: P935357

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1593.4	1584.5	1584.5	1569.6	1563.6	1559.2	1551.8	1529.5	1523.5	1517.6	1526.5
5°	1606.8	1590.4	1578.5	1551.8	1529.5	1520.5	1492.3	1438.8	1403.2	1376.4	1361.5
7.5°	1609.8	1588.9	1566.6	1525.0	1471.5	1447.7	1361.5	1263.4	1236.6	1212.8	1198.0
10°	1606.8	1583.0	1551.8	1489.3	1363.0	1321.4	1235.2	1171.2	1154.9	1150.5	1154.9
12.5°	1596.4	1574.1	1531.0	1426.9	1250.0	1221.8	1171.2	1134.1	1131.2	1138.5	1178.7
15°	1578.5	1557.8	1507.2	1343.7	1187.6	1166.8	1131.2	1117.7	1134.1	1186.1	1306.6
17.5°	1560.7	1536.9	1474.5	1261.9	1140.0	1125.2	1099.9	1126.7	1218.8	1288.6	1328.8
20°	1536.9	1508.7	1437.3	1202.5	1105.9	1092.5	1080.6	1201.0	1270.8	1296.1	1318.4
22.5°	1508.7	1479.0	1386.7	1160.9	1070.2	1059.8	1067.2	1242.6	1270.8	1288.6	1308.0
25°	1471.5	1446.2	1327.3	1128.2	1041.9	1030.1	1058.3	1238.1	1254.5	1259.0	1297.6
27.5°	1437.3	1404.6	1264.9	1098.4	1007.8	1003.3	1065.7	1218.8	1230.7	1235.2	1276.8
30°	1395.7	1346.6	1195.0	1067.2	972.1	970.6	1067.2	1195.0	1192.0	1204.0	1245.6
32.5°	1352.6	1260.4	1116.2	1028.6	937.9	936.4	1056.8	1159.4	1156.4	1172.7	1204.0
35°	1312.4	1193.5	1009.3	984.0	894.8	896.3	1031.6	1117.7	1119.2	1134.1	1153.4
37.5°	1270.8	1135.6	891.8	935.0	853.2	853.2	997.3	1079.1	1076.1	1080.6	1107.4
40°	1221.8	1044.9	787.7	871.0	814.5	810.1	955.8	1037.4	1027.1	1025.6	1062.7
42.5°	1169.8	945.3	710.5	786.3	769.9	764.0	905.2	986.9	967.6	972.1	1019.6
45°	1113.2	918.6	651.0	664.4	723.9	719.4	850.2	929.0	915.6	927.5	976.6
47.5°	1056.8	865.0	631.7	551.5	674.8	673.3	789.2	872.5	865.0	877.0	929.0
50°	979.5	805.6	630.2	472.7	619.8	625.8	716.4	817.5	817.5	827.9	882.9
52.5°	880.0	732.8	572.2	428.1	555.9	573.7	652.5	769.9	772.9	783.4	832.4
55°	789.2	657.0	530.7	393.9	480.1	518.7	590.1	720.9	726.8	737.2	781.9
57.5°	706.1	547.0	521.7	353.8	410.3	447.4	535.1	673.3	676.3	685.3	728.3
60°	616.8	395.4	478.6	310.7	349.3	377.5	484.6	616.8	627.3	633.2	670.3
62.5°	515.7	286.9	434.1	280.9	319.5	325.5	442.9	563.3	576.7	581.2	603.5
65°	367.1	240.8	368.6	255.7	288.3	289.8	398.3	508.4	520.2	527.7	544.0
67.5°	248.2	196.2	280.9	231.9	264.5	266.0	355.3	444.4	460.8	466.7	477.1
70°	172.4	130.8	208.1	206.6	237.8	240.8	309.2	386.5	401.3	405.8	411.7
72.5°	126.3	105.6	172.4	185.8	209.6	212.5	261.6	321.0	336.0	340.3	343.3
75°	96.6	111.5	139.7	162.0	178.4	179.9	214.0	261.6	272.0	275.0	276.5
77.5°	77.3	104.1	102.6	130.8	145.6	142.7	167.9	202.2	211.1	211.1	211.1
80°	58.0	81.8	77.3	93.6	107.0	104.1	120.4	144.2	147.1	150.1	148.6
82.5°	43.1	52.0	52.0	59.5	71.3	68.3	80.3	93.6	93.6	93.6	96.6
85°	26.8	29.7	23.8	31.2	40.1	38.6	44.6	50.5	52.0	52.0	49.0
87.5°	16.3	13.4	7.5	11.9	17.8	17.8	20.8	22.3	20.8	20.8	20.8
90°	9.5	6.6	3.7	6.6	9.5	10.2	16.1	23.9	27.8	24.7	18.5
92.5°	64.3	39.4	14.6	39.4	64.3	70.5	99.2	137.3	156.3	137.0	98.4
95°	126.0	80.5	35.0	80.5	126.0	137.4	243.9	385.9	457.0	407.8	309.4
97.5°	140.9	100.7	60.6	100.7	140.9	150.9	328.6	565.5	683.8	652.8	590.6
100°	153.1	116.7	80.4	116.7	153.1	162.2	359.4	622.3	753.7	756.0	760.4
102.5°	165.0	131.1	97.1	131.1	165.0	173.6	373.5	640.1	773.4	813.0	892.3
105°	183.1	154.4	125.7	154.4	183.1	190.3	384.0	642.1	771.2	860.0	1037.6
107.5°	208.5	181.7	154.9	181.7	208.5	215.2	385.9	613.5	727.3	851.2	1099.0
110°	223.0	198.8	174.6	198.8	223.0	229.1	382.9	588.2	690.8	829.3	1106.3

TEST NUMBER: P935357

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	240.0	217.0	194.0	217.0	240.0	245.8	383.1	566.1	657.6	799.3	1082.8
115°	265.7	244.4	223.2	244.4	265.7	271.0	386.6	540.8	617.8	754.4	1027.4
117.5°	290.7	271.4	252.1	271.4	290.7	295.5	393.8	524.9	590.4	713.6	960.1
120°	305.2	287.0	268.8	287.0	305.2	309.8	399.6	519.5	579.4	692.0	917.2
122.5°	322.1	303.7	285.4	303.7	322.1	326.6	408.1	516.7	571.0	672.3	875.1
125°	343.9	327.3	310.6	327.3	343.9	348.2	419.4	514.3	561.8	648.0	820.2
127.5°	364.8	347.8	330.9	347.8	364.8	369.0	430.7	513.0	554.2	628.2	776.1
130°	378.3	360.1	341.9	360.1	378.3	382.9	439.0	513.9	551.3	617.2	748.8
132.5°	389.6	371.4	353.3	371.4	389.6	394.2	445.6	514.3	548.7	607.6	725.5
135°	403.2	386.6	370.1	386.6	403.2	407.4	453.0	513.9	544.4	593.7	692.4
137.5°	420.0	403.7	387.2	403.7	420.0	424.1	463.9	517.1	543.6	585.3	668.7
140°	431.7	416.6	401.5	416.6	431.7	435.5	470.7	517.6	541.0	577.0	649.2
142.5°	440.4	426.4	412.5	426.4	440.4	443.9	476.3	519.4	541.0	572.7	636.0
145°	453.6	441.4	429.2	441.4	453.6	456.6	483.6	519.5	537.4	563.3	615.1
147.5°	469.7	457.9	446.1	457.9	469.7	472.7	494.3	523.0	537.4	557.8	598.6
150°	478.4	467.7	457.0	467.7	478.4	481.1	499.9	525.0	537.4	554.6	589.0
152.5°	484.6	476.4	468.3	476.4	484.6	486.6	503.5	526.1	537.4	552.1	581.4
155°	497.2	491.1	485.2	491.1	497.2	498.7	511.6	528.8	537.4	549.1	572.5
157.5°	509.2	503.4	497.6	503.4	509.2	510.7	519.6	531.5	537.4	546.5	564.7
160°	515.0	510.6	506.0	510.6	515.0	516.2	523.3	532.7	537.4	545.2	560.8
162.5°	521.2	517.8	514.3	517.8	521.2	522.1	527.2	534.0	537.4	544.0	557.1
165°	529.6	526.5	523.5	526.5	529.6	530.4	532.8	535.9	537.4	542.2	551.6
167.5°	534.9	533.4	531.9	533.4	534.9	535.2	537.2	539.7	541.0	544.1	550.3
170°	540.3	538.8	537.4	538.8	540.3	540.7	540.8	540.9	541.0	544.1	550.3
172.5°	540.9	540.7	540.3	540.7	540.9	541.0	541.0	541.0	541.0	543.5	548.3
175°	544.4	544.4	544.4	544.4	544.4	544.4	543.2	541.7	541.0	542.6	545.7
177.5°	544.4	544.4	544.4	544.4	544.4	544.4	543.5	542.4	541.7	543.0	545.4
180°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4

TEST NUMBER: P935357

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1516.1	1511.6	1517.6	1501.2	1517.6	1511.6	1516.1	1526.5	1517.6	1523.5	1529.5
5°	1330.3	1322.9	1299.1	1279.8	1299.1	1322.9	1330.3	1361.5	1376.4	1403.2	1438.8
7.5°	1189.1	1183.2	1177.2	1165.3	1177.2	1183.2	1189.1	1198.0	1212.8	1236.6	1263.4
10°	1157.9	1159.4	1168.3	1166.8	1168.3	1159.4	1157.9	1154.9	1150.5	1154.9	1171.2
12.5°	1238.1	1251.5	1300.6	1297.6	1300.6	1251.5	1238.1	1178.7	1138.5	1131.2	1134.1
15°	1330.3	1334.8	1345.2	1346.6	1345.2	1334.8	1330.3	1306.6	1186.1	1134.1	1117.7
17.5°	1339.2	1340.7	1348.1	1348.1	1348.1	1340.7	1339.2	1328.8	1288.6	1218.8	1126.7
20°	1331.8	1334.8	1349.6	1352.6	1349.6	1334.8	1331.8	1318.4	1296.1	1270.8	1201.0
22.5°	1328.8	1334.8	1346.6	1345.2	1346.6	1334.8	1328.8	1308.0	1288.6	1270.8	1242.6
25°	1313.9	1313.9	1315.4	1316.9	1315.4	1313.9	1313.9	1297.6	1259.0	1254.5	1238.1
27.5°	1282.8	1285.7	1294.6	1293.1	1294.6	1285.7	1282.8	1276.8	1235.2	1230.7	1218.8
30°	1254.5	1251.5	1244.1	1238.1	1244.1	1251.5	1254.5	1245.6	1204.0	1192.0	1195.0
32.5°	1207.0	1199.5	1192.0	1187.6	1192.0	1199.5	1207.0	1204.0	1172.7	1156.4	1159.4
35°	1150.5	1151.9	1150.5	1146.0	1150.5	1151.9	1150.5	1153.4	1134.1	1119.2	1117.7
37.5°	1110.3	1113.2	1111.8	1105.9	1111.8	1113.2	1110.3	1107.4	1080.6	1076.1	1079.1
40°	1068.7	1070.2	1068.7	1064.2	1068.7	1070.2	1068.7	1062.7	1025.6	1027.1	1037.4
42.5°	1028.6	1027.1	1022.6	1019.6	1022.6	1027.1	1028.6	1019.6	972.1	967.6	986.9
45°	982.5	984.0	975.1	970.6	975.1	984.0	982.5	976.6	927.5	915.6	929.0
47.5°	936.4	936.4	929.0	924.5	929.0	936.4	936.4	929.0	877.0	865.0	872.5
50°	887.3	885.9	875.5	874.0	875.5	885.9	887.3	882.9	827.9	817.5	817.5
52.5°	830.9	830.9	832.4	835.4	832.4	830.9	830.9	832.4	783.4	772.9	769.9
55°	781.9	783.4	793.7	796.7	793.7	783.4	781.9	781.9	737.2	726.8	720.9
57.5°	731.3	731.3	738.7	738.7	738.7	731.3	731.3	728.3	685.3	676.3	673.3
60°	673.3	676.3	682.3	680.8	682.3	676.3	673.3	670.3	633.2	627.3	616.8
62.5°	612.4	615.3	616.8	613.8	616.8	615.3	612.4	603.5	581.2	576.7	563.3
65°	548.5	551.5	552.9	550.0	552.9	551.5	548.5	544.0	527.7	520.2	508.4
67.5°	483.1	481.6	480.1	486.1	480.1	481.6	483.1	477.1	466.7	460.8	444.4
70°	416.1	416.1	414.7	417.6	414.7	416.1	416.1	411.7	405.8	401.3	386.5
72.5°	344.8	343.3	349.3	344.8	349.3	343.3	344.8	343.3	340.3	336.0	321.0
75°	275.0	278.0	275.0	279.5	275.0	278.0	275.0	276.5	275.0	272.0	261.6
77.5°	209.6	212.5	209.6	209.6	209.6	212.5	209.6	211.1	211.1	211.1	202.2
80°	148.6	147.1	147.1	145.6	147.1	147.1	148.6	148.6	150.1	147.1	144.2
82.5°	95.1	93.6	93.6	96.6	93.6	93.6	95.1	96.6	93.6	93.6	93.6
85°	52.0	53.5	50.5	50.5	50.5	53.5	52.0	49.0	52.0	52.0	50.5
87.5°	19.3	17.8	17.8	17.8	17.8	17.8	19.3	20.8	20.8	20.8	22.3
90°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	18.5	24.7	27.8	23.9
92.5°	69.4	66.7	55.6	44.5	55.6	66.7	69.4	98.4	137.0	156.3	137.3
95°	235.6	227.3	193.8	160.4	193.8	227.3	235.6	309.4	407.8	457.0	385.9
97.5°	543.9	528.0	464.4	400.8	464.4	528.0	543.9	590.6	652.8	683.8	565.5
100°	763.9	744.9	669.1	593.3	669.1	744.9	763.9	760.4	756.0	753.7	622.3
102.5°	951.6	935.4	870.5	805.6	870.5	935.4	951.6	892.3	813.0	773.4	640.1
105°	1170.9	1162.2	1127.2	1092.3	1127.2	1162.2	1170.9	1037.6	860.0	771.2	642.1
107.5°	1284.9	1287.0	1295.4	1303.8	1295.4	1287.0	1284.9	1099.0	851.2	727.3	613.5
110°	1314.0	1323.2	1359.5	1395.9	1359.5	1323.2	1314.0	1106.3	829.3	690.8	588.2

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1295.4	1309.4	1365.2	1421.1	1365.2	1309.4	1295.4	1082.8	799.3	657.6	566.1
115°	1232.3	1251.6	1329.0	1406.5	1329.0	1251.6	1232.3	1027.4	754.4	617.8	540.8
117.5°	1145.0	1166.4	1252.3	1338.2	1252.3	1166.4	1145.0	960.1	713.6	590.4	524.9
120°	1086.1	1107.0	1190.4	1273.9	1190.4	1107.0	1086.1	917.2	692.0	579.4	519.5
122.5°	1027.3	1047.8	1130.2	1212.5	1130.2	1047.8	1027.3	875.1	672.3	571.0	516.7
125°	949.4	968.4	1044.2	1120.1	1044.2	968.4	949.4	820.2	648.0	561.8	514.3
127.5°	887.0	903.0	967.0	1030.9	967.0	903.0	887.0	776.1	628.2	554.2	513.0
130°	847.6	862.3	921.4	980.5	921.4	862.3	847.6	748.8	617.2	551.3	513.9
132.5°	813.9	827.2	880.1	933.0	880.1	827.2	813.9	725.5	607.6	548.7	514.3
135°	766.4	777.8	823.4	869.1	823.4	777.8	766.4	692.4	593.7	544.4	513.9
137.5°	731.4	740.7	778.1	815.4	778.1	740.7	731.4	668.7	585.3	543.6	517.1
140°	703.3	712.0	746.9	781.8	746.9	712.0	703.3	649.2	577.0	541.0	517.6
142.5°	683.5	691.0	721.1	751.1	721.1	691.0	683.5	636.0	572.7	541.0	519.4
145°	653.9	659.6	682.4	705.1	682.4	659.6	653.9	615.1	563.3	537.4	519.5
147.5°	629.1	633.9	652.7	671.5	652.7	633.9	629.1	598.6	557.8	537.4	523.0
150°	614.8	618.6	633.9	649.2	633.9	618.6	614.8	589.0	554.6	537.4	525.0
152.5°	603.5	606.4	617.9	629.5	617.9	606.4	603.5	581.4	552.1	537.4	526.1
155°	590.0	591.9	599.5	607.2	599.5	591.9	590.0	572.5	549.1	537.4	528.8
157.5°	578.3	579.6	585.0	590.4	585.0	579.6	578.3	564.7	546.5	537.4	531.5
160°	572.5	573.3	576.3	579.4	576.3	573.3	572.5	560.8	545.2	537.4	532.7
162.5°	566.9	567.6	570.6	573.5	570.6	567.6	566.9	557.1	544.0	537.4	534.0
165°	558.6	559.4	562.5	565.5	562.5	559.4	558.6	551.6	542.2	537.4	535.9
167.5°	554.9	555.3	556.5	557.8	556.5	555.3	554.9	550.3	544.1	541.0	539.7
170°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	550.3	544.1	541.0	540.9
172.5°	552.0	551.7	550.6	549.5	550.6	551.7	552.0	548.3	543.5	541.0	541.0
175°	548.0	548.0	548.0	548.0	548.0	548.0	548.0	545.7	542.6	541.0	541.7
177.5°	547.3	546.9	545.7	544.4	545.7	546.9	547.3	545.4	543.0	541.7	542.4
180°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4

TEST NUMBER: P935357

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1551.8	1559.2	1563.6	1569.6	1584.5
5°	1492.3	1520.5	1529.5	1551.8	1578.5
7.5°	1361.5	1447.7	1471.5	1525.0	1566.6
10°	1235.2	1321.4	1363.0	1489.3	1551.8
12.5°	1171.2	1221.8	1250.0	1426.9	1531.0
15°	1131.2	1166.8	1187.6	1343.7	1507.2
17.5°	1099.9	1125.2	1140.0	1261.9	1474.5
20°	1080.6	1092.5	1105.9	1202.5	1437.3
22.5°	1067.2	1059.8	1070.2	1160.9	1386.7
25°	1058.3	1030.1	1041.9	1128.2	1327.3
27.5°	1065.7	1003.3	1007.8	1098.4	1264.9
30°	1067.2	970.6	972.1	1067.2	1195.0
32.5°	1056.8	936.4	937.9	1028.6	1116.2
35°	1031.6	896.3	894.8	984.0	1009.3
37.5°	997.3	853.2	853.2	935.0	891.8
40°	955.8	810.1	814.5	871.0	787.7
42.5°	905.2	764.0	769.9	786.3	710.5
45°	850.2	719.4	723.9	664.4	651.0
47.5°	789.2	673.3	674.8	551.5	631.7
50°	716.4	625.8	619.8	472.7	630.2
52.5°	652.5	573.7	555.9	428.1	572.2
55°	590.1	518.7	480.1	393.9	530.7
57.5°	535.1	447.4	410.3	353.8	521.7
60°	484.6	377.5	349.3	310.7	478.6
62.5°	442.9	325.5	319.5	280.9	434.1
65°	398.3	289.8	288.3	255.7	368.6
67.5°	355.3	266.0	264.5	231.9	280.9
70°	309.2	240.8	237.8	206.6	208.1
72.5°	261.6	212.5	209.6	185.8	172.4
75°	214.0	179.9	178.4	162.0	139.7
77.5°	167.9	142.7	145.6	130.8	102.6
80°	120.4	104.1	107.0	93.6	77.3
82.5°	80.3	68.3	71.3	59.5	52.0
85°	44.6	38.6	40.1	31.2	23.8
87.5°	20.8	17.8	17.8	11.9	7.5
90°	16.1	10.2	9.5	6.6	3.7
92.5°	99.2	70.5	64.3	39.4	14.6
95°	243.9	137.4	126.0	80.5	35.0
97.5°	328.6	150.9	140.9	100.7	60.6
100°	359.4	162.2	153.1	116.7	80.4
102.5°	373.5	173.6	165.0	131.1	97.1
105°	384.0	190.3	183.1	154.4	125.7
107.5°	385.9	215.2	208.5	181.7	154.9
110°	382.9	229.1	223.0	198.8	174.6



TEST NUMBER: P935357

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	383.1	245.8	240.0	217.0	194.0
115°	386.6	271.0	265.7	244.4	223.2
117.5°	393.8	295.5	290.7	271.4	252.1
120°	399.6	309.8	305.2	287.0	268.8
122.5°	408.1	326.6	322.1	303.7	285.4
125°	419.4	348.2	343.9	327.3	310.6
127.5°	430.7	369.0	364.8	347.8	330.9
130°	439.0	382.9	378.3	360.1	341.9
132.5°	445.6	394.2	389.6	371.4	353.3
135°	453.0	407.4	403.2	386.6	370.1
137.5°	463.9	424.1	420.0	403.7	387.2
140°	470.7	435.5	431.7	416.6	401.5
142.5°	476.3	443.9	440.4	426.4	412.5
145°	483.6	456.6	453.6	441.4	429.2
147.5°	494.3	472.7	469.7	457.9	446.1
150°	499.9	481.1	478.4	467.7	457.0
152.5°	503.5	486.6	484.6	476.4	468.3
155°	511.6	498.7	497.2	491.1	485.2
157.5°	519.6	510.7	509.2	503.4	497.6
160°	523.3	516.2	515.0	510.6	506.0
162.5°	527.2	522.1	521.2	517.8	514.3
165°	532.8	530.4	529.6	526.5	523.5
167.5°	537.2	535.2	534.9	533.4	531.9
170°	540.8	540.7	540.3	538.8	537.4
172.5°	541.0	541.0	540.9	540.7	540.3
175°	543.2	544.4	544.4	544.4	544.4
177.5°	543.5	544.4	544.4	544.4	544.4
180°	544.4	544.4	544.4	544.4	544.4

TEST NUMBER: P935357

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.43	15.32	15.36	16.27	17.49	17.23	18.12	18.15	19.07	20.28
	3H	14.91	15.71	15.85	16.66	17.91	18.57	19.37	19.50	20.32	21.56
	4H	15.10	15.86	16.05	16.82	18.07	19.00	19.76	19.96	20.72	21.97
	6H	15.22	15.92	16.19	16.89	18.15	19.28	19.98	20.25	20.95	22.21
	8H	15.23	15.89	16.20	16.87	18.13	19.35	20.02	20.32	21.00	22.26
	12H	15.20	15.83	16.17	16.81	18.09	19.39	20.02	20.37	21.00	22.28
4H	2H	15.46	16.22	16.42	17.18	18.43	17.64	18.40	18.60	19.36	20.61
	3H	16.49	17.12	17.46	18.11	19.37	19.14	19.77	20.11	20.76	22.03
	4H	16.77	17.34	17.74	18.32	19.61	19.66	20.24	20.64	21.22	22.51
	6H	16.89	17.39	17.88	18.40	19.68	20.02	20.52	21.01	21.53	22.81
	8H	16.90	17.36	17.89	18.36	19.67	20.13	20.59	21.12	21.59	22.89
	12H	16.87	17.29	17.88	18.30	19.61	20.18	20.60	21.19	21.61	22.92
8H	4H	17.22	17.68	18.21	18.68	19.98	19.79	20.26	20.78	21.25	22.56
	6H	17.48	17.86	18.50	18.90	20.21	20.22	20.61	21.24	21.65	22.95
	8H	17.52	17.86	18.55	18.89	20.21	20.37	20.71	21.39	21.73	23.05
	12H	17.51	17.81	18.54	18.83	20.19	20.46	20.76	21.49	21.78	23.15
12H	4H	17.22	17.64	18.23	18.66	19.97	19.76	20.18	20.77	21.19	22.50
	6H	17.54	17.88	18.56	18.91	20.23	20.22	20.56	21.24	21.59	22.91
	8H	17.61	17.91	18.64	18.93	20.29	20.38	20.68	21.41	21.70	23.06