

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: P934388

Luminaire Tested: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934388
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

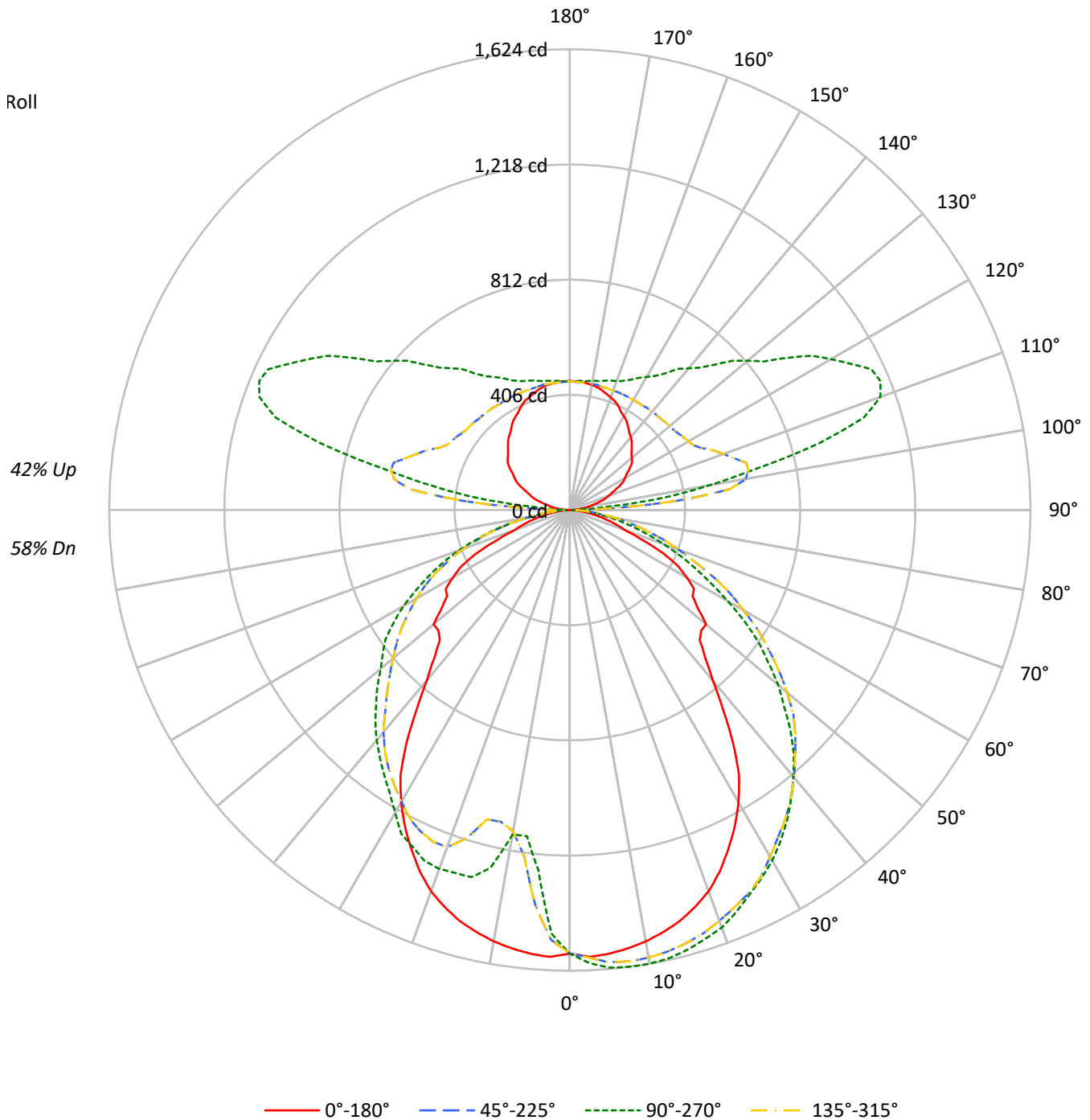
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6999.5 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 54.6
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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9671	9671	9671	9671
5°	9740	9762	9740	7676
10°	9671	9616	9671	6875
15°	9562	9408	9562	7856
20°	9358	9161	9358	7872
25°	8945	8801	8945	7705
30°	8413	8502	8413	7339
35°	7496	8124	7496	6937
40°	6243	7679	6243	6633
45°	5574	7158	5574	6283
50°	5918	6537	5918	5932
55°	5562	5868	5562	5728
60°	5726	4984	5726	5247
65°	5184	4119	5184	4605
70°	3582	3283	3582	3860
75°	3128	2427	3128	2907
80°	2503	1604	2503	1747
85°	1413	850	1413	723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8549 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	2.0
10°-20°	400.7	5.7
20°-30°	619.4	8.8
30°-40°	739.4	10.6
40°-50°	743.7	10.6
50°-60°	647.1	9.2
60°-70°	458.8	6.6
70°-80°	242.7	3.5
80°-90°	62.2	0.9
90°-100°	221.4	3.2
100°-110°	582.1	8.3
110°-120°	603.6	8.6
120°-130°	484.1	6.9
130°-140°	379.9	5.4
140°-150°	291.6	4.2
150°-160°	210.0	3.0
160°-170°	128.5	1.8
170°-180°	43.4	0.6
0°-30°	1161.1	16.6
0°-40°	1900.5	27.2
0°-60°	3291.4	47.0
0°-90°	4055.1	57.9
90°-120°	1407.0	20.1
90°-150°	2562.6	36.6
90°-180°	2944.0	42.1
0°-180°	6999.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1563	1563	1563	1563	1563	
5°	1571	1620	1571	1273	1571	149
15°	1500	1605	1500	1340	1500	422
25°	1321	1497	1321	1310	1321	606
35°	1004	1336	1004	1140	1004	621
45°	648	1100	648	966	648	519
55°	528	812	528	793	528	485
65°	367	490	367	547	367	351
75°	139	232	139	278	139	146
85°	24	59	24	50	24	32
90°	3	12	3	12	3	4
95°	29	134	29	134	29	32
105°	105	912	105	912	105	111
115°	186	1174	186	1174	186	184
125°	259	935	259	935	259	230
135°	309	725	309	725	309	239
145°	358	588	358	588	358	224
155°	405	507	405	507	405	186
165°	437	472	437	472	437	123
175°	454	457	454	457	454	43
180°	454	454	454	454	454	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1576.6	1576.6	1585.5	1588.4	1588.4	1584.0	1579.6	1584.0	1597.3	1601.8	1600.3
5°	1570.7	1582.5	1598.8	1601.8	1604.7	1603.2	1600.3	1603.2	1618.0	1621.0	1622.5
7.5°	1558.9	1581.1	1601.8	1606.2	1610.6	1606.2	1604.7	1607.7	1622.5	1625.4	1625.4
10°	1544.1	1575.1	1598.8	1601.8	1606.2	1601.8	1601.8	1607.7	1622.5	1625.4	1626.9
12.5°	1523.4	1566.3	1588.4	1591.4	1597.3	1595.8	1594.4	1600.3	1615.1	1618.0	1618.0
15°	1499.7	1550.0	1570.7	1573.7	1584.0	1581.1	1581.1	1587.0	1603.2	1607.7	1606.2
17.5°	1467.2	1529.3	1553.0	1557.4	1564.8	1563.3	1564.8	1570.7	1585.5	1588.4	1589.9
20°	1430.2	1501.2	1529.3	1533.7	1541.1	1541.1	1541.1	1548.5	1563.3	1569.2	1569.2
22.5°	1379.9	1471.6	1501.2	1504.1	1513.0	1513.0	1516.0	1526.3	1539.6	1541.1	1541.1
25°	1320.7	1439.1	1464.2	1473.1	1482.0	1486.4	1490.8	1496.7	1501.2	1499.7	1501.2
27.5°	1258.6	1397.7	1430.2	1436.1	1447.9	1452.4	1458.3	1459.8	1461.3	1465.7	1462.7
30°	1189.1	1340.0	1388.8	1394.7	1413.9	1416.9	1411.0	1413.9	1421.3	1424.3	1427.2
32.5°	1110.7	1254.2	1345.9	1359.2	1376.9	1368.1	1366.6	1371.0	1382.9	1382.9	1385.8
35°	1004.2	1187.6	1306.0	1317.8	1331.1	1320.7	1326.7	1328.1	1335.5	1340.0	1338.5
37.5°	887.4	1130.0	1264.5	1273.4	1283.8	1270.5	1279.3	1283.8	1289.7	1286.7	1286.7
40°	783.9	1039.7	1215.7	1221.7	1230.5	1220.2	1229.0	1232.0	1235.0	1232.0	1230.5
42.5°	707.0	940.6	1164.0	1171.4	1165.5	1172.8	1175.8	1181.7	1177.3	1171.4	1171.4
45°	647.8	914.0	1107.8	1116.6	1107.8	1119.6	1124.0	1124.0	1110.7	1107.8	1106.3
47.5°	628.6	860.8	1051.6	1051.6	1047.1	1061.9	1069.3	1059.0	1045.7	1041.2	1041.2
50°	627.1	801.6	974.7	968.7	989.5	1007.2	999.8	989.5	979.1	962.8	962.8
52.5°	569.4	729.1	875.6	897.8	930.3	940.6	928.8	918.5	900.7	893.3	887.4
55°	528.0	653.7	785.3	829.7	863.7	877.0	854.9	844.5	817.9	813.4	810.5
57.5°	519.1	544.3	702.5	758.7	800.1	798.7	785.3	766.1	743.9	739.5	738.0
60°	476.2	393.4	613.8	680.3	723.2	718.8	707.0	689.2	668.5	665.6	662.6
62.5°	431.9	285.4	513.2	588.6	649.3	647.8	637.4	610.8	596.0	588.6	582.7
65°	366.8	239.6	365.3	489.5	576.8	579.8	557.6	538.4	522.1	513.2	511.7
67.5°	279.5	195.2	247.0	408.2	507.3	504.3	476.2	467.4	446.7	442.2	433.3
70°	207.1	130.2	171.6	331.3	439.3	431.9	409.7	399.3	380.1	369.8	363.8
72.5°	171.6	105.0	125.7	257.3	369.8	360.9	341.6	329.8	313.5	304.7	298.8
75°	139.0	110.9	96.1	190.8	300.2	294.3	276.6	264.7	251.4	239.6	241.1
77.5°	102.1	103.5	76.9	140.5	238.1	229.2	218.9	204.1	198.2	186.4	186.4
80°	76.9	81.3	57.7	96.1	171.6	171.6	162.7	152.3	142.0	136.1	136.1
82.5°	51.8	51.8	42.9	60.6	116.8	112.4	106.5	103.5	97.6	94.7	94.7
85°	23.7	29.6	26.6	37.0	63.6	66.6	66.6	63.6	62.1	59.2	60.6
87.5°	7.4	13.3	16.3	20.7	32.5	34.0	35.5	35.5	35.5	37.0	37.0
90°	3.1	5.5	8.0	8.6	13.4	19.9	23.2	20.6	15.4	11.5	11.5
92.5°	12.2	32.9	53.6	58.9	82.7	114.6	130.4	114.3	82.0	57.9	55.6
95°	29.3	67.1	105.1	114.6	203.5	322.1	381.4	340.4	258.2	196.6	189.6
97.5°	50.6	84.1	117.5	125.9	274.2	471.9	570.7	544.8	492.8	453.9	440.5
100°	67.0	97.4	127.8	135.4	299.8	519.2	628.9	630.7	634.6	637.4	621.7
102.5°	81.0	109.4	137.7	144.8	311.7	534.1	645.3	678.4	744.5	794.1	780.6
105°	104.9	128.9	152.8	158.8	320.4	535.8	643.5	717.6	865.8	977.0	969.7
107.5°	129.3	151.6	173.9	179.6	322.0	511.9	606.9	710.2	917.0	1072.1	1073.9
110°	145.7	165.8	186.1	191.1	319.6	490.8	576.4	692.0	923.2	1096.5	1104.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	161.9	181.1	200.4	205.2	319.7	472.4	548.7	667.0	903.6	1081.0	1092.6
115°	186.3	204.0	221.8	226.2	322.6	451.2	515.5	629.5	857.3	1028.2	1044.4
117.5°	210.3	226.5	242.6	246.6	328.6	438.0	492.6	595.4	801.1	955.3	973.3
120°	224.3	239.5	254.7	258.5	333.5	433.4	483.4	577.4	765.3	906.2	923.7
122.5°	238.1	253.4	268.7	272.5	340.5	431.1	476.4	561.0	730.3	857.2	874.4
125°	259.1	273.0	287.0	290.5	349.9	429.2	468.8	540.7	684.5	792.3	808.0
127.5°	276.2	290.3	304.4	307.9	359.4	428.1	462.4	524.2	647.5	740.1	753.4
130°	285.3	300.5	315.7	319.5	366.3	428.7	460.0	514.9	624.8	707.3	719.6
132.5°	294.8	310.0	325.2	328.9	371.9	429.2	457.9	507.1	605.4	679.2	690.2
135°	308.8	322.6	336.4	339.9	378.0	428.8	454.3	495.5	577.8	639.5	649.1
137.5°	323.1	336.8	350.4	353.9	387.1	431.4	453.6	488.4	558.0	610.2	618.0
140°	335.0	347.7	360.2	363.3	392.7	431.9	451.5	481.6	541.7	586.8	594.1
142.5°	344.1	355.7	367.4	370.3	397.4	433.4	451.5	477.9	530.7	570.3	576.6
145°	358.2	368.4	378.5	381.1	403.6	433.4	448.4	470.0	513.2	545.7	550.4
147.5°	372.2	382.1	392.0	394.5	412.4	436.4	448.4	465.4	499.4	524.9	528.9
150°	381.4	390.4	399.2	401.5	417.2	438.0	448.4	462.8	491.5	513.0	516.2
152.5°	390.8	397.6	404.4	406.0	420.1	439.0	448.4	460.7	485.2	503.6	505.9
155°	404.9	409.9	414.8	416.1	426.8	441.2	448.4	458.2	477.7	492.3	493.9
157.5°	415.2	420.0	425.0	426.1	433.5	443.5	448.4	456.0	471.2	482.5	483.6
160°	422.2	426.0	429.7	430.7	436.6	444.5	448.4	454.9	468.0	477.7	478.3
162.5°	429.2	432.1	434.9	435.6	439.9	445.6	448.4	454.0	464.9	473.1	473.7
165°	436.8	439.4	441.9	442.6	444.6	447.2	448.4	452.4	460.2	466.1	466.8
167.5°	443.8	445.0	446.3	446.6	448.2	450.4	451.5	454.1	459.2	463.0	463.3
170°	448.4	449.6	450.9	451.2	451.3	451.4	451.5	454.1	459.2	463.0	463.0
172.5°	450.9	451.2	451.4	451.5	451.5	451.5	451.5	453.5	457.5	460.6	460.4
175°	454.3	454.3	454.3	454.3	453.4	452.1	451.5	452.8	455.3	457.2	457.2
177.5°	454.3	454.3	454.3	454.3	453.6	452.6	452.1	453.1	455.1	456.6	456.3
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1603.2	1598.8	1603.2	1600.3	1601.8	1597.3	1584.0	1579.6	1584.0	1588.4	1588.4
5°	1622.5	1619.5	1622.5	1622.5	1621.0	1618.0	1603.2	1600.3	1603.2	1604.7	1601.8
7.5°	1628.4	1623.9	1628.4	1625.4	1625.4	1622.5	1607.7	1604.7	1606.2	1610.6	1606.2
10°	1628.4	1623.9	1628.4	1626.9	1625.4	1622.5	1607.7	1601.8	1601.8	1606.2	1601.8
12.5°	1621.0	1618.0	1621.0	1618.0	1618.0	1615.1	1600.3	1594.4	1595.8	1597.3	1591.4
15°	1609.2	1604.7	1609.2	1606.2	1607.7	1603.2	1587.0	1581.1	1581.1	1584.0	1573.7
17.5°	1591.4	1585.5	1591.4	1589.9	1588.4	1585.5	1570.7	1564.8	1563.3	1564.8	1557.4
20°	1570.7	1566.3	1570.7	1569.2	1569.2	1563.3	1548.5	1541.1	1541.1	1541.1	1533.7
22.5°	1538.2	1533.7	1538.2	1541.1	1541.1	1539.6	1526.3	1516.0	1513.0	1513.0	1504.1
25°	1501.2	1496.7	1501.2	1501.2	1499.7	1501.2	1496.7	1490.8	1486.4	1482.0	1473.1
27.5°	1465.7	1462.7	1465.7	1462.7	1465.7	1461.3	1459.8	1458.3	1452.4	1447.9	1436.1
30°	1430.2	1427.2	1430.2	1427.2	1424.3	1421.3	1413.9	1411.0	1416.9	1413.9	1394.7
32.5°	1385.8	1382.9	1385.8	1385.8	1382.9	1382.9	1371.0	1366.6	1368.1	1376.9	1359.2
35°	1340.0	1335.5	1340.0	1338.5	1340.0	1335.5	1328.1	1326.7	1320.7	1331.1	1317.8
37.5°	1286.7	1282.3	1286.7	1286.7	1286.7	1289.7	1283.8	1279.3	1270.5	1283.8	1273.4
40°	1232.0	1226.1	1232.0	1230.5	1232.0	1235.0	1232.0	1229.0	1220.2	1230.5	1221.7
42.5°	1169.9	1168.4	1169.9	1171.4	1171.4	1177.3	1181.7	1175.8	1172.8	1165.5	1171.4
45°	1103.3	1100.4	1103.3	1106.3	1107.8	1110.7	1124.0	1124.0	1119.6	1107.8	1116.6
47.5°	1032.3	1024.9	1032.3	1041.2	1041.2	1045.7	1059.0	1069.3	1061.9	1047.1	1051.6
50°	956.9	958.4	956.9	962.8	962.8	979.1	989.5	999.8	1007.2	989.5	968.7
52.5°	883.0	881.5	883.0	887.4	893.3	900.7	918.5	928.8	940.6	930.3	897.8
55°	809.0	812.0	809.0	810.5	813.4	817.9	844.5	854.9	877.0	863.7	829.7
57.5°	735.1	730.6	735.1	738.0	739.5	743.9	766.1	785.3	798.7	800.1	758.7
60°	649.3	643.4	649.3	662.6	665.6	668.5	689.2	707.0	718.8	723.2	680.3
62.5°	573.9	563.5	573.9	582.7	588.6	596.0	610.8	637.4	647.8	649.3	588.6
65°	494.0	489.5	494.0	511.7	513.2	522.1	538.4	557.6	579.8	576.8	489.5
67.5°	421.5	421.5	421.5	433.3	442.2	446.7	467.4	476.2	504.3	507.3	408.2
70°	355.0	353.5	355.0	363.8	369.8	380.1	399.3	409.7	431.9	439.3	331.3
72.5°	291.4	289.9	291.4	298.8	304.7	313.5	329.8	341.6	360.9	369.8	257.3
75°	235.2	232.2	235.2	241.1	239.6	251.4	264.7	276.6	294.3	300.2	190.8
77.5°	180.4	180.4	180.4	186.4	186.4	198.2	204.1	218.9	229.2	238.1	140.5
80°	134.6	133.1	134.6	136.1	136.1	142.0	152.3	162.7	171.6	171.6	96.1
82.5°	94.7	91.7	94.7	94.7	94.7	97.6	103.5	106.5	112.4	116.8	60.6
85°	59.2	59.2	59.2	60.6	59.2	62.1	63.6	66.6	66.6	63.6	37.0
87.5°	38.5	37.0	38.5	37.0	37.0	35.5	35.5	35.5	34.0	32.5	20.7
90°	11.5	11.5	11.5	11.5	11.5	15.4	20.6	23.2	19.9	13.4	8.6
92.5°	46.3	37.2	46.3	55.6	57.9	82.0	114.3	130.4	114.6	82.7	58.9
95°	161.7	133.8	161.7	189.6	196.6	258.2	340.4	381.4	322.1	203.5	114.6
97.5°	387.5	334.5	387.5	440.5	453.9	492.8	544.8	570.7	471.9	274.2	125.9
100°	558.4	495.1	558.4	621.7	637.4	634.6	630.7	628.9	519.2	299.8	135.4
102.5°	726.4	672.2	726.4	780.6	794.1	744.5	678.4	645.3	534.1	311.7	144.8
105°	940.6	911.5	940.6	969.7	977.0	865.8	717.6	643.5	535.8	320.4	158.8
107.5°	1080.9	1088.0	1080.9	1073.9	1072.1	917.0	710.2	606.9	511.9	322.0	179.6
110°	1134.4	1164.8	1134.4	1104.1	1096.5	923.2	692.0	576.4	490.8	319.6	191.1



TEST NUMBER: P934388

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1139.2	1185.8	1139.2	1092.6	1081.0	903.6	667.0	548.7	472.4	319.7	205.2
115°	1109.0	1173.6	1109.0	1044.4	1028.2	857.3	629.5	515.5	451.2	322.6	226.2
117.5°	1045.0	1116.6	1045.0	973.3	955.3	801.1	595.4	492.6	438.0	328.6	246.6
120°	993.3	1063.0	993.3	923.7	906.2	765.3	577.4	483.4	433.4	333.5	258.5
122.5°	943.1	1011.7	943.1	874.4	857.2	730.3	561.0	476.4	431.1	340.5	272.5
125°	871.3	934.6	871.3	808.0	792.3	684.5	540.7	468.8	429.2	349.9	290.5
127.5°	806.8	860.3	806.8	753.4	740.1	647.5	524.2	462.4	428.1	359.4	307.9
130°	768.9	818.2	768.9	719.6	707.3	624.8	514.9	460.0	428.7	366.3	319.5
132.5°	734.4	778.5	734.4	690.2	679.2	605.4	507.1	457.9	429.2	371.9	328.9
135°	687.1	725.2	687.1	649.1	639.5	577.8	495.5	454.3	428.8	378.0	339.9
137.5°	649.3	680.4	649.3	618.0	610.2	558.0	488.4	453.6	431.4	387.1	353.9
140°	623.2	652.3	623.2	594.1	586.8	541.7	481.6	451.5	431.9	392.7	363.3
142.5°	601.7	626.7	601.7	576.6	570.3	530.7	477.9	451.5	433.4	397.4	370.3
145°	569.4	588.3	569.4	550.4	545.7	513.2	470.0	448.4	433.4	403.6	381.1
147.5°	544.6	560.2	544.6	528.9	524.9	499.4	465.4	448.4	436.4	412.4	394.5
150°	529.0	541.7	529.0	516.2	513.0	491.5	462.8	448.4	438.0	417.2	401.5
152.5°	515.6	525.2	515.6	505.9	503.6	485.2	460.7	448.4	439.0	420.1	406.0
155°	500.3	506.6	500.3	493.9	492.3	477.7	458.2	448.4	441.2	426.8	416.1
157.5°	488.2	492.6	488.2	483.6	482.5	471.2	456.0	448.4	443.5	433.5	426.1
160°	480.9	483.4	480.9	478.3	477.7	468.0	454.9	448.4	444.5	436.6	430.7
162.5°	476.1	478.6	476.1	473.7	473.1	464.9	454.0	448.4	445.6	439.9	435.6
165°	469.3	471.9	469.3	466.8	466.1	460.2	452.4	448.4	447.2	444.6	442.6
167.5°	464.4	465.5	464.4	463.3	463.0	459.2	454.1	451.5	450.4	448.2	446.6
170°	463.0	463.0	463.0	463.0	463.0	459.2	454.1	451.5	451.4	451.3	451.2
172.5°	459.4	458.5	459.4	460.4	460.6	457.5	453.5	451.5	451.5	451.5	451.5
175°	457.2	457.2	457.2	457.2	457.2	455.3	452.8	451.5	452.1	453.4	454.3
177.5°	455.3	454.3	455.3	456.3	456.6	455.1	453.1	452.1	452.6	453.6	454.3
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



TEST NUMBER: P934388

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1585.5	1576.6	1576.6	1561.8	1555.9	1551.5	1544.1	1521.9	1516.0	1510.1	1518.9
5°	1598.8	1582.5	1570.7	1544.1	1521.9	1513.0	1484.9	1431.7	1396.2	1369.6	1354.8
7.5°	1601.8	1581.1	1558.9	1517.5	1464.2	1440.5	1354.8	1257.2	1230.5	1206.9	1192.1
10°	1598.8	1575.1	1544.1	1482.0	1356.2	1314.8	1229.0	1165.5	1149.2	1144.7	1149.2
12.5°	1588.4	1566.3	1523.4	1419.8	1243.8	1215.7	1165.5	1128.5	1125.5	1132.9	1172.8
15°	1570.7	1550.0	1499.7	1337.0	1181.7	1161.0	1125.5	1112.2	1128.5	1180.2	1300.0
17.5°	1553.0	1529.3	1467.2	1255.7	1134.4	1119.6	1094.5	1121.1	1212.8	1282.3	1322.2
20°	1529.3	1501.2	1430.2	1196.5	1100.4	1087.1	1075.2	1195.0	1264.5	1289.7	1311.9
22.5°	1501.2	1471.6	1379.9	1155.1	1064.9	1054.5	1061.9	1236.4	1264.5	1282.3	1301.5
25°	1464.2	1439.1	1320.7	1122.6	1036.8	1024.9	1053.0	1232.0	1248.3	1252.7	1291.2
27.5°	1430.2	1397.7	1258.6	1093.0	1002.8	998.3	1060.4	1212.8	1224.6	1229.0	1270.5
30°	1388.8	1340.0	1189.1	1061.9	967.3	965.8	1061.9	1189.1	1186.2	1198.0	1239.4
32.5°	1345.9	1254.2	1110.7	1023.5	933.2	931.8	1051.6	1153.6	1150.7	1166.9	1198.0
35°	1306.0	1187.6	1004.2	979.1	890.4	891.8	1026.4	1112.2	1113.7	1128.5	1147.7
37.5°	1264.5	1130.0	887.4	930.3	848.9	848.9	992.4	1073.8	1070.8	1075.2	1101.9
40°	1215.7	1039.7	783.9	866.7	810.5	806.1	951.0	1032.3	1022.0	1020.5	1057.5
42.5°	1164.0	940.6	707.0	782.4	766.1	760.2	900.7	982.1	962.8	967.3	1014.6
45°	1107.8	914.0	647.8	661.1	720.3	715.8	846.0	924.4	911.1	922.9	971.7
47.5°	1051.6	860.8	628.6	548.7	671.5	670.0	785.3	868.2	860.8	872.6	924.4
50°	974.7	801.6	627.1	470.3	616.7	622.7	712.9	813.4	813.4	823.8	878.5
52.5°	875.6	729.1	569.4	426.0	553.1	570.9	649.3	766.1	769.1	779.4	828.2
55°	785.3	653.7	528.0	391.9	477.7	516.2	587.2	717.3	723.2	733.6	778.0
57.5°	702.5	544.3	519.1	352.0	408.2	445.2	532.4	670.0	672.9	681.8	724.7
60°	613.8	393.4	476.2	309.1	347.6	375.7	482.2	613.8	624.1	630.1	667.0
62.5°	513.2	285.4	431.9	279.5	318.0	323.9	440.7	560.5	573.9	578.3	600.5
65°	365.3	239.6	366.8	254.4	286.9	288.4	396.4	505.8	517.6	525.0	541.3
67.5°	247.0	195.2	279.5	230.7	263.3	264.7	353.5	442.2	458.5	464.4	474.8
70°	171.6	130.2	207.1	205.6	236.6	239.6	307.6	384.5	399.3	403.8	409.7
72.5°	125.7	105.0	171.6	184.9	208.5	211.5	260.3	319.5	334.3	338.7	341.6
75°	96.1	110.9	139.0	161.2	177.5	179.0	213.0	260.3	270.7	273.6	275.1
77.5°	76.9	103.5	102.1	130.2	144.9	142.0	167.1	201.1	210.0	210.0	210.0
80°	57.7	81.3	76.9	93.2	106.5	103.5	119.8	143.5	146.4	149.4	147.9
82.5°	42.9	51.8	51.8	59.2	71.0	68.0	79.9	93.2	93.2	93.2	96.1
85°	26.6	29.6	23.7	31.1	39.9	38.5	44.4	50.3	51.8	51.8	48.8
87.5°	16.3	13.3	7.4	11.8	17.7	17.7	20.7	22.2	20.7	20.7	20.7
90°	8.0	5.5	3.1	5.5	8.0	8.6	13.4	19.9	23.2	20.6	15.4
92.5°	53.6	32.9	12.2	32.9	53.6	58.9	82.7	114.6	130.4	114.3	82.0
95°	105.1	67.1	29.3	67.1	105.1	114.6	203.5	322.1	381.4	340.4	258.2
97.5°	117.5	84.1	50.6	84.1	117.5	125.9	274.2	471.9	570.7	544.8	492.8
100°	127.8	97.4	67.0	97.4	127.8	135.4	299.8	519.2	628.9	630.7	634.6
102.5°	137.7	109.4	81.0	109.4	137.7	144.8	311.7	534.1	645.3	678.4	744.5
105°	152.8	128.9	104.9	128.9	152.8	158.8	320.4	535.8	643.5	717.6	865.8
107.5°	173.9	151.6	129.3	151.6	173.9	179.6	322.0	511.9	606.9	710.2	917.0
110°	186.1	165.8	145.7	165.8	186.1	191.1	319.6	490.8	576.4	692.0	923.2



TEST NUMBER: P934388

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	200.4	181.1	161.9	181.1	200.4	205.2	319.7	472.4	548.7	667.0	903.6
115°	221.8	204.0	186.3	204.0	221.8	226.2	322.6	451.2	515.5	629.5	857.3
117.5°	242.6	226.5	210.3	226.5	242.6	246.6	328.6	438.0	492.6	595.4	801.1
120°	254.7	239.5	224.3	239.5	254.7	258.5	333.5	433.4	483.4	577.4	765.3
122.5°	268.7	253.4	238.1	253.4	268.7	272.5	340.5	431.1	476.4	561.0	730.3
125°	287.0	273.0	259.1	273.0	287.0	290.5	349.9	429.2	468.8	540.7	684.5
127.5°	304.4	290.3	276.2	290.3	304.4	307.9	359.4	428.1	462.4	524.2	647.5
130°	315.7	300.5	285.3	300.5	315.7	319.5	366.3	428.7	460.0	514.9	624.8
132.5°	325.2	310.0	294.8	310.0	325.2	328.9	371.9	429.2	457.9	507.1	605.4
135°	336.4	322.6	308.8	322.6	336.4	339.9	378.0	428.8	454.3	495.5	577.8
137.5°	350.4	336.8	323.1	336.8	350.4	353.9	387.1	431.4	453.6	488.4	558.0
140°	360.2	347.7	335.0	347.7	360.2	363.3	392.7	431.9	451.5	481.6	541.7
142.5°	367.4	355.7	344.1	355.7	367.4	370.3	397.4	433.4	451.5	477.9	530.7
145°	378.5	368.4	358.2	368.4	378.5	381.1	403.6	433.4	448.4	470.0	513.2
147.5°	392.0	382.1	372.2	382.1	392.0	394.5	412.4	436.4	448.4	465.4	499.4
150°	399.2	390.4	381.4	390.4	399.2	401.5	417.2	438.0	448.4	462.8	491.5
152.5°	404.4	397.6	390.8	397.6	404.4	406.0	420.1	439.0	448.4	460.7	485.2
155°	414.8	409.9	404.9	409.9	414.8	416.1	426.8	441.2	448.4	458.2	477.7
157.5°	425.0	420.0	415.2	420.0	425.0	426.1	433.5	443.5	448.4	456.0	471.2
160°	429.7	426.0	422.2	426.0	429.7	430.7	436.6	444.5	448.4	454.9	468.0
162.5°	434.9	432.1	429.2	432.1	434.9	435.6	439.9	445.6	448.4	454.0	464.9
165°	441.9	439.4	436.8	439.4	441.9	442.6	444.6	447.2	448.4	452.4	460.2
167.5°	446.3	445.0	443.8	445.0	446.3	446.6	448.2	450.4	451.5	454.1	459.2
170°	450.9	449.6	448.4	449.6	450.9	451.2	451.3	451.4	451.5	454.1	459.2
172.5°	451.4	451.2	450.9	451.2	451.4	451.5	451.5	451.5	451.5	453.5	457.5
175°	454.3	454.3	454.3	454.3	454.3	454.3	453.4	452.1	451.5	452.8	455.3
177.5°	454.3	454.3	454.3	454.3	454.3	454.3	453.6	452.6	452.1	453.1	455.1
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



TEST NUMBER: P934388

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1508.6	1504.1	1510.1	1493.8	1510.1	1504.1	1508.6	1518.9	1510.1	1516.0	1521.9
5°	1323.7	1316.3	1292.6	1273.4	1292.6	1316.3	1323.7	1354.8	1369.6	1396.2	1431.7
7.5°	1183.2	1177.3	1171.4	1159.5	1171.4	1177.3	1183.2	1192.1	1206.9	1230.5	1257.2
10°	1152.1	1153.6	1162.5	1161.0	1162.5	1153.6	1152.1	1149.2	1144.7	1149.2	1165.5
12.5°	1232.0	1245.3	1294.1	1291.2	1294.1	1245.3	1232.0	1172.8	1132.9	1125.5	1128.5
15°	1323.7	1328.1	1338.5	1340.0	1338.5	1328.1	1323.7	1300.0	1180.2	1128.5	1112.2
17.5°	1332.6	1334.1	1341.5	1341.5	1341.5	1334.1	1332.6	1322.2	1282.3	1212.8	1121.1
20°	1325.2	1328.1	1342.9	1345.9	1342.9	1328.1	1325.2	1311.9	1289.7	1264.5	1195.0
22.5°	1322.2	1328.1	1340.0	1338.5	1340.0	1328.1	1322.2	1301.5	1282.3	1264.5	1236.4
25°	1307.4	1307.4	1308.9	1310.4	1308.9	1307.4	1307.4	1291.2	1252.7	1248.3	1232.0
27.5°	1276.4	1279.3	1288.2	1286.7	1288.2	1279.3	1276.4	1270.5	1229.0	1224.6	1212.8
30°	1248.3	1245.3	1237.9	1232.0	1237.9	1245.3	1248.3	1239.4	1198.0	1186.2	1189.1
32.5°	1200.9	1193.6	1186.2	1181.7	1186.2	1193.6	1200.9	1198.0	1166.9	1150.7	1153.6
35°	1144.7	1146.2	1144.7	1140.3	1144.7	1146.2	1144.7	1147.7	1128.5	1113.7	1112.2
37.5°	1104.8	1107.8	1106.3	1100.4	1106.3	1107.8	1104.8	1101.9	1075.2	1070.8	1073.8
40°	1063.4	1064.9	1063.4	1059.0	1063.4	1064.9	1063.4	1057.5	1020.5	1022.0	1032.3
42.5°	1023.5	1022.0	1017.6	1014.6	1017.6	1022.0	1023.5	1014.6	967.3	962.8	982.1
45°	977.6	979.1	970.2	965.8	970.2	979.1	977.6	971.7	922.9	911.1	924.4
47.5°	931.8	931.8	924.4	919.9	924.4	931.8	931.8	924.4	872.6	860.8	868.2
50°	883.0	881.5	871.1	869.7	871.1	881.5	883.0	878.5	823.8	813.4	813.4
52.5°	826.8	826.8	828.2	831.2	828.2	826.8	826.8	828.2	779.4	769.1	766.1
55°	778.0	779.4	789.8	792.7	789.8	779.4	778.0	778.0	733.6	723.2	717.3
57.5°	727.7	727.7	735.1	735.1	735.1	727.7	727.7	724.7	681.8	672.9	670.0
60°	670.0	672.9	678.9	677.4	678.9	672.9	670.0	667.0	630.1	624.1	613.8
62.5°	609.3	612.3	613.8	610.8	613.8	612.3	609.3	600.5	578.3	573.9	560.5
65°	545.8	548.7	550.2	547.2	550.2	548.7	545.8	541.3	525.0	517.6	505.8
67.5°	480.7	479.2	477.7	483.6	477.7	479.2	480.7	474.8	464.4	458.5	442.2
70°	414.1	414.1	412.6	415.6	412.6	414.1	414.1	409.7	403.8	399.3	384.5
72.5°	343.1	341.6	347.6	343.1	347.6	341.6	343.1	341.6	338.7	334.3	319.5
75°	273.6	276.6	273.6	278.1	273.6	276.6	273.6	275.1	273.6	270.7	260.3
77.5°	208.5	211.5	208.5	208.5	208.5	211.5	208.5	210.0	210.0	210.0	201.1
80°	147.9	146.4	146.4	144.9	146.4	146.4	147.9	147.9	149.4	146.4	143.5
82.5°	94.7	93.2	93.2	96.1	93.2	93.2	94.7	96.1	93.2	93.2	93.2
85°	51.8	53.2	50.3	50.3	50.3	53.2	51.8	48.8	51.8	51.8	50.3
87.5°	19.2	17.7	17.7	17.7	17.7	17.7	19.2	20.7	20.7	20.7	22.2
90°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	15.4	20.6	23.2	19.9
92.5°	57.9	55.6	46.3	37.2	46.3	55.6	57.9	82.0	114.3	130.4	114.6
95°	196.6	189.6	161.7	133.8	161.7	189.6	196.6	258.2	340.4	381.4	322.1
97.5°	453.9	440.5	387.5	334.5	387.5	440.5	453.9	492.8	544.8	570.7	471.9
100°	637.4	621.7	558.4	495.1	558.4	621.7	637.4	634.6	630.7	628.9	519.2
102.5°	794.1	780.6	726.4	672.2	726.4	780.6	794.1	744.5	678.4	645.3	534.1
105°	977.0	969.7	940.6	911.5	940.6	969.7	977.0	865.8	717.6	643.5	535.8
107.5°	1072.1	1073.9	1080.9	1088.0	1080.9	1073.9	1072.1	917.0	710.2	606.9	511.9
110°	1096.5	1104.1	1134.4	1164.8	1134.4	1104.1	1096.5	923.2	692.0	576.4	490.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1081.0	1092.6	1139.2	1185.8	1139.2	1092.6	1081.0	903.6	667.0	548.7	472.4
115°	1028.2	1044.4	1109.0	1173.6	1109.0	1044.4	1028.2	857.3	629.5	515.5	451.2
117.5°	955.3	973.3	1045.0	1116.6	1045.0	973.3	955.3	801.1	595.4	492.6	438.0
120°	906.2	923.7	993.3	1063.0	993.3	923.7	906.2	765.3	577.4	483.4	433.4
122.5°	857.2	874.4	943.1	1011.7	943.1	874.4	857.2	730.3	561.0	476.4	431.1
125°	792.3	808.0	871.3	934.6	871.3	808.0	792.3	684.5	540.7	468.8	429.2
127.5°	740.1	753.4	806.8	860.3	806.8	753.4	740.1	647.5	524.2	462.4	428.1
130°	707.3	719.6	768.9	818.2	768.9	719.6	707.3	624.8	514.9	460.0	428.7
132.5°	679.2	690.2	734.4	778.5	734.4	690.2	679.2	605.4	507.1	457.9	429.2
135°	639.5	649.1	687.1	725.2	687.1	649.1	639.5	577.8	495.5	454.3	428.8
137.5°	610.2	618.0	649.3	680.4	649.3	618.0	610.2	558.0	488.4	453.6	431.4
140°	586.8	594.1	623.2	652.3	623.2	594.1	586.8	541.7	481.6	451.5	431.9
142.5°	570.3	576.6	601.7	626.7	601.7	576.6	570.3	530.7	477.9	451.5	433.4
145°	545.7	550.4	569.4	588.3	569.4	550.4	545.7	513.2	470.0	448.4	433.4
147.5°	524.9	528.9	544.6	560.2	544.6	528.9	524.9	499.4	465.4	448.4	436.4
150°	513.0	516.2	529.0	541.7	529.0	516.2	513.0	491.5	462.8	448.4	438.0
152.5°	503.6	505.9	515.6	525.2	515.6	505.9	503.6	485.2	460.7	448.4	439.0
155°	492.3	493.9	500.3	506.6	500.3	493.9	492.3	477.7	458.2	448.4	441.2
157.5°	482.5	483.6	488.2	492.6	488.2	483.6	482.5	471.2	456.0	448.4	443.5
160°	477.7	478.3	480.9	483.4	480.9	478.3	477.7	468.0	454.9	448.4	444.5
162.5°	473.1	473.7	476.1	478.6	476.1	473.7	473.1	464.9	454.0	448.4	445.6
165°	466.1	466.8	469.3	471.9	469.3	466.8	466.1	460.2	452.4	448.4	447.2
167.5°	463.0	463.3	464.4	465.5	464.4	463.3	463.0	459.2	454.1	451.5	450.4
170°	463.0	463.0	463.0	463.0	463.0	463.0	463.0	459.2	454.1	451.5	451.4
172.5°	460.6	460.4	459.4	458.5	459.4	460.4	460.6	457.5	453.5	451.5	451.5
175°	457.2	457.2	457.2	457.2	457.2	457.2	457.2	455.3	452.8	451.5	452.1
177.5°	456.6	456.3	455.3	454.3	455.3	456.3	456.6	455.1	453.1	452.1	452.6
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1544.1	1551.5	1555.9	1561.8	1576.6
5°	1484.9	1513.0	1521.9	1544.1	1570.7
7.5°	1354.8	1440.5	1464.2	1517.5	1558.9
10°	1229.0	1314.8	1356.2	1482.0	1544.1
12.5°	1165.5	1215.7	1243.8	1419.8	1523.4
15°	1125.5	1161.0	1181.7	1337.0	1499.7
17.5°	1094.5	1119.6	1134.4	1255.7	1467.2
20°	1075.2	1087.1	1100.4	1196.5	1430.2
22.5°	1061.9	1054.5	1064.9	1155.1	1379.9
25°	1053.0	1024.9	1036.8	1122.6	1320.7
27.5°	1060.4	998.3	1002.8	1093.0	1258.6
30°	1061.9	965.8	967.3	1061.9	1189.1
32.5°	1051.6	931.8	933.2	1023.5	1110.7
35°	1026.4	891.8	890.4	979.1	1004.2
37.5°	992.4	848.9	848.9	930.3	887.4
40°	951.0	806.1	810.5	866.7	783.9
42.5°	900.7	760.2	766.1	782.4	707.0
45°	846.0	715.8	720.3	661.1	647.8
47.5°	785.3	670.0	671.5	548.7	628.6
50°	712.9	622.7	616.7	470.3	627.1
52.5°	649.3	570.9	553.1	426.0	569.4
55°	587.2	516.2	477.7	391.9	528.0
57.5°	532.4	445.2	408.2	352.0	519.1
60°	482.2	375.7	347.6	309.1	476.2
62.5°	440.7	323.9	318.0	279.5	431.9
65°	396.4	288.4	286.9	254.4	366.8
67.5°	353.5	264.7	263.3	230.7	279.5
70°	307.6	239.6	236.6	205.6	207.1
72.5°	260.3	211.5	208.5	184.9	171.6
75°	213.0	179.0	177.5	161.2	139.0
77.5°	167.1	142.0	144.9	130.2	102.1
80°	119.8	103.5	106.5	93.2	76.9
82.5°	79.9	68.0	71.0	59.2	51.8
85°	44.4	38.5	39.9	31.1	23.7
87.5°	20.7	17.7	17.7	11.8	7.4
90°	13.4	8.6	8.0	5.5	3.1
92.5°	82.7	58.9	53.6	32.9	12.2
95°	203.5	114.6	105.1	67.1	29.3
97.5°	274.2	125.9	117.5	84.1	50.6
100°	299.8	135.4	127.8	97.4	67.0
102.5°	311.7	144.8	137.7	109.4	81.0
105°	320.4	158.8	152.8	128.9	104.9
107.5°	322.0	179.6	173.9	151.6	129.3
110°	319.6	191.1	186.1	165.8	145.7



TEST NUMBER: P934388

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	319.7	205.2	200.4	181.1	161.9
115°	322.6	226.2	221.8	204.0	186.3
117.5°	328.6	246.6	242.6	226.5	210.3
120°	333.5	258.5	254.7	239.5	224.3
122.5°	340.5	272.5	268.7	253.4	238.1
125°	349.9	290.5	287.0	273.0	259.1
127.5°	359.4	307.9	304.4	290.3	276.2
130°	366.3	319.5	315.7	300.5	285.3
132.5°	371.9	328.9	325.2	310.0	294.8
135°	378.0	339.9	336.4	322.6	308.8
137.5°	387.1	353.9	350.4	336.8	323.1
140°	392.7	363.3	360.2	347.7	335.0
142.5°	397.4	370.3	367.4	355.7	344.1
145°	403.6	381.1	378.5	368.4	358.2
147.5°	412.4	394.5	392.0	382.1	372.2
150°	417.2	401.5	399.2	390.4	381.4
152.5°	420.1	406.0	404.4	397.6	390.8
155°	426.8	416.1	414.8	409.9	404.9
157.5°	433.5	426.1	425.0	420.0	415.2
160°	436.6	430.7	429.7	426.0	422.2
162.5°	439.9	435.6	434.9	432.1	429.2
165°	444.6	442.6	441.9	439.4	436.8
167.5°	448.2	446.6	446.3	445.0	443.8
170°	451.3	451.2	450.9	449.6	448.4
172.5°	451.5	451.5	451.4	451.2	450.9
175°	453.4	454.3	454.3	454.3	454.3
177.5°	453.6	454.3	454.3	454.3	454.3
180°	454.3	454.3	454.3	454.3	454.3



TEST NUMBER: P934388
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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	13.39	14.33	14.27	15.23	16.39	16.21	17.15	17.10	18.06	19.21
	3H	13.87	14.71	14.77	15.63	16.81	17.56	18.40	18.46	19.32	20.50
	4H	14.07	14.86	14.98	15.78	16.97	18.01	18.80	18.92	19.72	20.91
	6H	14.19	14.92	15.11	15.85	17.05	18.30	19.03	19.22	19.96	21.16
	8H	14.19	14.89	15.13	15.83	17.03	18.37	19.07	19.30	20.01	21.21
	12H	14.17	14.83	15.10	15.77	16.99	18.41	19.08	19.35	20.02	21.24
4H	2H	14.43	15.22	15.35	16.14	17.33	16.63	17.43	17.55	18.35	19.54
	3H	15.46	16.12	16.39	17.08	18.28	18.14	18.80	19.07	19.76	20.96
	4H	15.74	16.35	16.68	17.29	18.52	18.67	19.28	19.61	20.22	21.45
	6H	15.87	16.39	16.83	17.36	18.59	19.04	19.56	19.99	20.53	21.76
	8H	15.88	16.37	16.84	17.33	18.57	19.15	19.63	20.10	20.60	21.84
	12H	15.85	16.29	16.83	17.27	18.52	19.21	19.65	20.18	20.63	21.88
8H	4H	16.20	16.69	17.16	17.65	18.89	18.80	19.29	19.76	20.25	21.50
	6H	16.47	16.87	17.45	17.87	19.12	19.24	19.64	20.22	20.65	21.89
	8H	16.51	16.86	17.50	17.86	19.12	19.39	19.75	20.38	20.74	22.00
	12H	16.50	16.81	17.49	17.80	19.10	19.49	19.81	20.49	20.80	22.10
12H	4H	16.21	16.65	17.19	17.63	18.88	18.77	19.21	19.75	20.19	21.44
	6H	16.53	16.88	17.52	17.88	19.14	19.24	19.60	20.23	20.59	21.85
	8H	16.60	16.91	17.59	17.90	19.20	19.40	19.72	20.40	20.71	22.01