

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: P934984

Luminaire Tested: SQ4-FA-075U-125D-B2750-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

**Test Information**

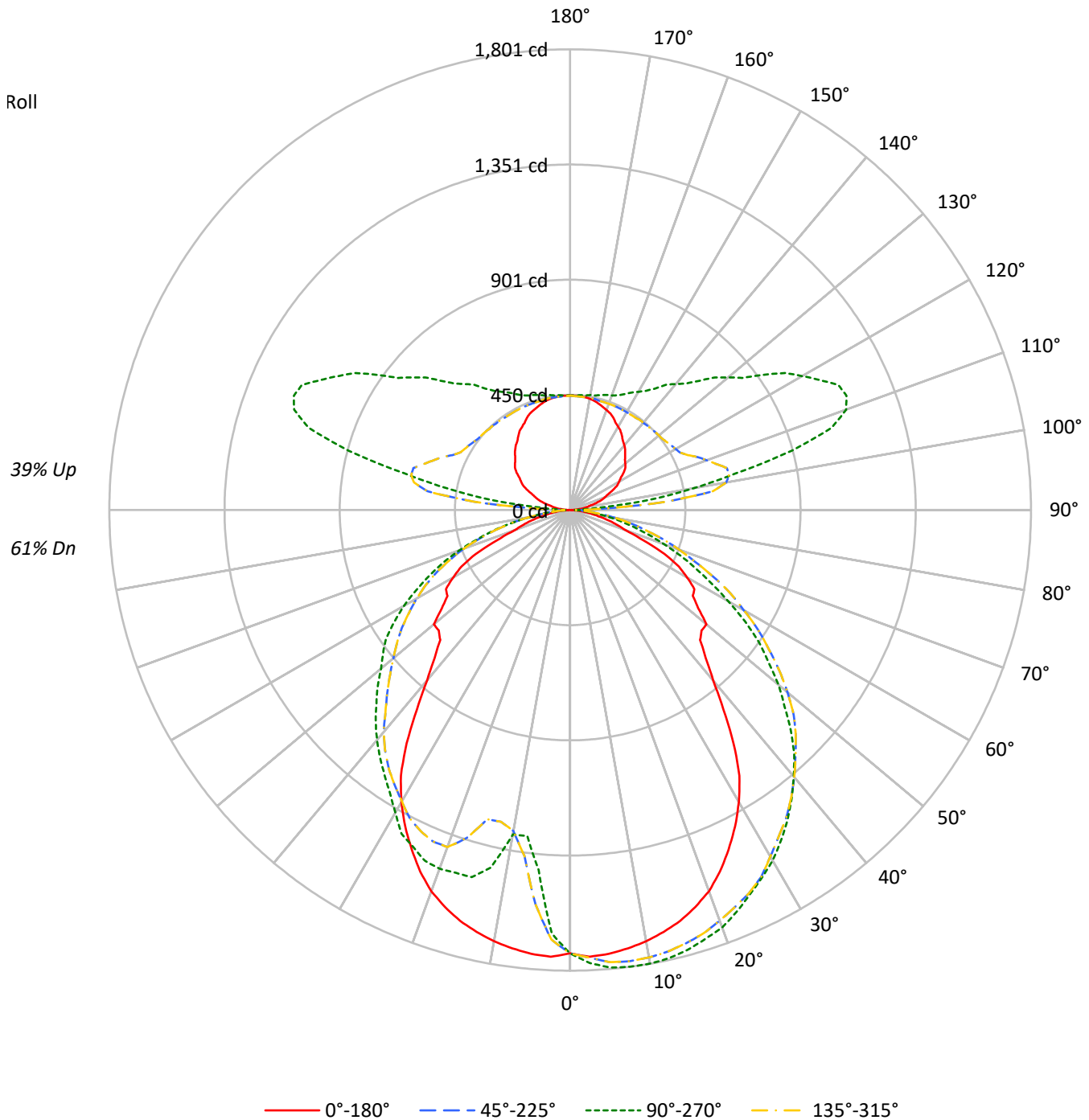
Test Method: LM-79-2019  
Report Number: P934984  
REPORT IS A COMBINATION OF REPORTS P933718 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-125D-B2750-1D-UNV-STD-W-4-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7397.4 lumens  
Efficiency: N/A  
Efficacy: 119.3 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: Semi-Direct  
  
Input Watts (W): 62  
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	16084	16084	16084	16084
5°	16186	16237	16186	12766
10°	16060	15994	16060	11434
15°	15868	15647	15868	13065
20°	15518	15236	15518	13093
25°	14820	14637	14820	12815
30°	13925	14141	13925	12206
35°	12397	13512	12397	11537
40°	10311	12771	10311	11030
45°	9195	11906	9195	10449
50°	9747	10872	9747	9866
55°	9146	9759	9146	9528
60°	9392	8289	9392	8727
65°	8475	6851	8475	7659
70°	5829	5461	5829	6420
75°	5057	4037	5057	4833
80°	3992	2669	3992	2905
85°	2178	1413	2178	1200

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 14120 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.5	2.1
10°-20°	444.2	6.0
20°-30°	686.7	9.3
30°-40°	819.8	11.1
40°-50°	824.6	11.1
50°-60°	717.5	9.7
60°-70°	508.7	6.9
70°-80°	269.2	3.6
80°-90°	68.7	0.9
90°-100°	218.2	2.9
100°-110°	573.6	7.8
110°-120°	594.7	8.0
120°-130°	477.1	6.4
130°-140°	374.3	5.1
140°-150°	287.3	3.9
150°-160°	206.9	2.8
160°-170°	126.6	1.7
170°-180°	42.8	0.6
0°-30°	1287.4	17.4
0°-40°	2107.2	28.5
0°-60°	3649.3	49.3
0°-90°	4495.9	60.8
90°-120°	1386.5	18.7
90°-150°	2525.2	34.1
90°-180°	2901.0	39.2
0°-180°	7397.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1733	1733	1733	1733	1733	
5°	1742	1796	1742	1412	1742	165
15°	1663	1779	1663	1486	1663	468
25°	1464	1660	1464	1453	1464	672
35°	1114	1481	1114	1264	1114	689
45°	718	1220	718	1071	718	575
55°	586	900	586	879	586	538
65°	407	543	407	607	407	389
75°	154	258	154	308	154	162
85°	26	66	26	56	26	35
90°	3	11	3	11	3	4
95°	29	132	29	132	29	32
105°	103	898	103	898	103	110
115°	184	1156	184	1156	184	181
125°	255	921	255	921	255	227
135°	304	715	304	715	304	235
145°	353	580	353	580	353	221
155°	399	499	399	499	399	183
165°	430	465	430	465	430	121
175°	448	451	448	451	448	42
180°	448	448	448	448	448	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1748.1	1748.1	1758.0	1761.3	1761.3	1756.3	1751.4	1756.3	1771.0	1776.0	1774.3
5°	1741.5	1754.7	1772.7	1776.0	1779.3	1777.6	1774.3	1777.6	1794.0	1797.3	1798.9
7.5°	1728.4	1753.0	1776.0	1780.9	1785.8	1780.9	1779.3	1782.6	1798.9	1802.2	1802.2
10°	1712.0	1746.4	1772.7	1776.0	1780.9	1776.0	1776.0	1782.6	1798.9	1802.2	1803.9
12.5°	1689.1	1736.6	1761.3	1764.5	1771.0	1769.4	1767.7	1774.3	1790.7	1794.0	1794.0
15°	1662.8	1718.6	1741.5	1744.8	1756.3	1753.0	1753.0	1759.6	1777.6	1782.6	1780.9
17.5°	1626.8	1695.7	1721.8	1726.8	1735.0	1733.3	1735.0	1741.5	1758.0	1761.3	1762.8
20°	1585.8	1664.5	1695.7	1700.5	1708.7	1708.7	1708.7	1717.0	1733.3	1739.9	1739.9
22.5°	1530.0	1631.7	1664.5	1667.7	1677.5	1677.5	1680.8	1692.4	1707.1	1708.7	1708.7
25°	1464.4	1595.6	1623.5	1633.3	1643.1	1648.1	1653.0	1659.5	1664.5	1662.8	1664.5
27.5°	1395.6	1549.6	1585.8	1592.3	1605.4	1610.4	1616.9	1618.5	1620.2	1625.1	1621.8
30°	1318.4	1485.7	1539.8	1546.4	1567.7	1570.9	1564.5	1567.7	1575.9	1579.2	1582.5
32.5°	1231.5	1390.6	1492.3	1507.0	1526.8	1516.9	1515.2	1520.2	1533.2	1533.2	1536.5
35°	1113.5	1316.8	1448.0	1461.2	1475.9	1464.4	1470.9	1472.6	1480.8	1485.7	1484.1
37.5°	983.9	1252.8	1402.0	1411.9	1423.4	1408.6	1418.5	1423.4	1430.0	1426.7	1426.7
40°	869.1	1152.8	1348.0	1354.6	1364.4	1352.9	1362.7	1366.0	1369.3	1366.0	1364.4
42.5°	783.8	1042.9	1290.6	1298.8	1292.2	1300.4	1303.7	1310.3	1305.3	1298.8	1298.8
45°	718.2	1013.5	1228.2	1238.1	1228.2	1241.4	1246.3	1246.3	1231.5	1228.2	1226.7
47.5°	696.9	954.4	1165.9	1165.9	1161.1	1177.4	1185.6	1174.1	1159.4	1154.5	1154.5
50°	695.3	888.8	1080.6	1074.1	1097.1	1116.8	1108.5	1097.1	1085.6	1067.5	1067.5
52.5°	631.3	808.4	970.8	995.4	1031.5	1042.9	1029.9	1018.3	998.7	990.5	983.9
55°	585.5	724.8	870.7	920.0	957.7	972.4	947.9	936.3	906.9	901.9	898.7
57.5°	575.6	603.5	779.0	841.3	887.1	885.6	870.7	849.4	824.8	820.0	818.3
60°	528.0	436.2	680.5	754.4	801.8	797.0	783.8	764.2	741.2	737.9	734.7
62.5°	478.9	316.5	569.0	652.6	719.9	718.2	706.8	677.2	660.9	652.6	646.1
65°	406.7	265.7	405.0	542.8	639.5	642.8	618.2	596.9	578.9	569.0	567.3
67.5°	309.9	216.5	273.8	452.6	562.5	559.2	528.0	518.2	495.3	490.3	480.5
70°	229.6	144.3	190.2	367.3	487.0	478.9	454.3	442.7	421.4	410.0	403.4
72.5°	190.2	116.5	139.3	285.4	410.0	400.1	378.8	365.7	347.7	337.8	331.2
75°	154.2	123.0	106.6	211.5	332.9	326.4	306.7	293.5	278.8	265.7	267.3
77.5°	113.2	114.8	85.3	155.8	264.1	254.2	242.7	226.3	219.8	206.6	206.6
80°	85.3	90.2	64.0	106.6	190.2	190.2	180.4	168.9	157.5	150.9	150.9
82.5°	57.4	57.4	47.6	67.2	129.6	124.6	118.0	114.8	108.2	104.9	104.9
85°	26.3	32.8	29.6	41.0	70.5	73.8	73.8	70.5	68.9	65.6	67.2
87.5°	8.2	14.7	18.0	23.0	36.0	37.7	39.3	39.3	39.3	41.0	41.0
90°	3.0	5.4	7.8	8.4	13.3	19.7	22.9	20.3	15.2	11.4	11.4
92.5°	12.0	32.5	52.8	57.9	81.5	112.9	128.6	112.7	80.9	57.1	54.8
95°	28.9	66.3	103.7	113.0	200.6	317.3	375.8	335.3	254.4	193.7	186.8
97.5°	49.9	82.8	115.8	124.0	270.2	464.9	562.3	536.7	485.7	447.3	434.2
100°	66.1	95.9	125.9	133.3	295.4	511.6	619.7	621.5	625.3	628.1	612.5
102.5°	79.9	107.8	135.7	142.6	307.1	526.4	636.0	668.5	733.6	782.5	769.1
105°	103.3	126.9	150.6	156.5	315.7	528.0	634.1	707.2	853.2	962.7	955.5
107.5°	127.3	149.4	171.4	176.9	317.3	504.5	598.1	699.9	903.6	1056.4	1058.1
110°	143.6	163.5	183.4	188.4	314.9	483.6	568.0	681.9	909.6	1080.4	1087.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	159.5	178.5	197.4	202.1	315.0	465.5	540.7	657.3	890.3	1065.1	1076.7
115°	183.5	201.0	218.5	222.9	317.9	444.6	507.9	620.3	844.8	1013.2	1029.1
117.5°	207.3	223.2	239.1	243.0	323.8	431.5	485.4	586.7	789.3	941.4	959.0
120°	221.1	236.0	251.0	254.8	328.6	427.1	476.4	569.0	754.2	893.0	910.2
122.5°	234.6	249.7	264.7	268.5	335.5	424.8	469.5	552.8	719.6	844.7	861.6
125°	255.3	269.1	282.9	286.2	344.9	423.0	462.0	532.9	674.5	780.7	796.3
127.5°	272.2	286.0	299.9	303.4	354.2	421.9	455.7	516.6	638.2	729.4	742.5
130°	281.2	296.1	311.0	314.8	361.0	422.5	453.3	507.5	615.7	696.9	709.0
132.5°	290.5	305.4	320.4	324.1	366.5	423.0	451.2	499.6	596.6	669.3	680.1
135°	304.3	317.8	331.5	334.9	372.5	422.6	447.6	488.2	569.4	630.2	639.6
137.5°	318.4	331.9	345.4	348.7	381.5	425.2	447.0	481.3	549.9	601.4	609.0
140°	330.1	342.5	354.9	358.0	387.0	425.6	444.9	474.5	533.7	578.2	585.4
142.5°	339.2	350.6	362.0	364.9	391.6	427.1	444.9	470.9	523.0	562.0	568.2
145°	352.9	363.0	373.0	375.5	397.6	427.1	441.9	463.2	505.7	537.7	542.3
147.5°	366.8	376.5	386.2	388.7	406.4	430.0	441.9	458.6	492.2	517.3	521.1
150°	375.8	384.6	393.4	395.6	411.0	431.6	441.9	456.0	484.3	505.5	508.6
152.5°	385.1	391.8	398.5	400.1	414.1	432.6	441.9	454.0	478.1	496.2	498.6
155°	398.9	403.9	408.7	410.0	420.6	434.8	441.9	451.5	470.6	485.1	486.6
157.5°	409.1	414.0	418.8	420.0	427.2	437.0	441.9	449.3	464.2	475.5	476.6
160°	416.0	419.8	423.5	424.4	430.2	438.0	441.9	448.3	461.1	470.7	471.3
162.5°	423.0	425.8	428.6	429.3	433.4	439.1	441.9	447.3	458.0	466.2	466.8
165°	430.4	432.9	435.5	436.1	438.1	440.6	441.9	445.7	453.5	459.3	460.0
167.5°	437.3	438.5	439.7	440.0	441.7	443.8	444.9	447.4	452.5	456.3	456.6
170°	441.9	443.0	444.3	444.6	444.7	444.8	444.9	447.4	452.5	456.3	456.3
172.5°	444.3	444.6	444.8	444.9	444.9	444.9	444.9	446.9	450.9	453.9	453.7
175°	447.6	447.6	447.6	447.6	446.7	445.4	444.9	446.1	448.6	450.6	450.6
177.5°	447.6	447.6	447.6	447.6	446.9	445.9	445.4	446.4	448.5	450.0	449.7
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1777.6	1772.7	1777.6	1774.3	1776.0	1771.0	1756.3	1751.4	1756.3	1761.3	1761.3
5°	1798.9	1795.7	1798.9	1798.9	1797.3	1794.0	1777.6	1774.3	1777.6	1779.3	1776.0
7.5°	1805.4	1800.6	1805.4	1802.2	1802.2	1798.9	1782.6	1779.3	1780.9	1785.8	1780.9
10°	1805.4	1800.6	1805.4	1803.9	1802.2	1798.9	1782.6	1776.0	1776.0	1780.9	1776.0
12.5°	1797.3	1794.0	1797.3	1794.0	1794.0	1790.7	1774.3	1767.7	1769.4	1771.0	1764.5
15°	1784.1	1779.3	1784.1	1780.9	1782.6	1777.6	1759.6	1753.0	1753.0	1756.3	1744.8
17.5°	1764.5	1758.0	1764.5	1762.8	1761.3	1758.0	1741.5	1735.0	1733.3	1735.0	1726.8
20°	1741.5	1736.6	1741.5	1739.9	1739.9	1733.3	1717.0	1708.7	1708.7	1708.7	1700.5
22.5°	1705.4	1700.5	1705.4	1708.7	1708.7	1707.1	1692.4	1680.8	1677.5	1677.5	1667.7
25°	1664.5	1659.5	1664.5	1664.5	1662.8	1664.5	1659.5	1653.0	1648.1	1643.1	1633.3
27.5°	1625.1	1621.8	1625.1	1621.8	1625.1	1620.2	1618.5	1616.9	1610.4	1605.4	1592.3
30°	1585.8	1582.5	1585.8	1582.5	1579.2	1575.9	1567.7	1564.5	1570.9	1567.7	1546.4
32.5°	1536.5	1533.2	1536.5	1536.5	1533.2	1533.2	1520.2	1515.2	1516.9	1526.8	1507.0
35°	1485.7	1480.8	1485.7	1484.1	1485.7	1480.8	1472.6	1470.9	1464.4	1475.9	1461.2
37.5°	1426.7	1421.7	1426.7	1426.7	1426.7	1430.0	1423.4	1418.5	1408.6	1423.4	1411.9
40°	1366.0	1359.4	1366.0	1364.4	1366.0	1369.3	1366.0	1362.7	1352.9	1364.4	1354.6
42.5°	1297.1	1295.5	1297.1	1298.8	1298.8	1305.3	1310.3	1303.7	1300.4	1292.2	1298.8
45°	1223.4	1220.1	1223.4	1226.7	1228.2	1231.5	1246.3	1246.3	1241.4	1228.2	1238.1
47.5°	1144.6	1136.4	1144.6	1154.5	1154.5	1159.4	1174.1	1185.6	1177.4	1161.1	1165.9
50°	1061.0	1062.6	1061.0	1067.5	1067.5	1085.6	1097.1	1108.5	1116.8	1097.1	1074.1
52.5°	979.0	977.3	979.0	983.9	990.5	998.7	1018.3	1029.9	1042.9	1031.5	995.4
55°	897.0	900.3	897.0	898.7	901.9	906.9	936.3	947.9	972.4	957.7	920.0
57.5°	815.0	810.1	815.0	818.3	820.0	824.8	849.4	870.7	885.6	887.1	841.3
60°	719.9	713.4	719.9	734.7	737.9	741.2	764.2	783.8	797.0	801.8	754.4
62.5°	636.2	624.8	636.2	646.1	652.6	660.9	677.2	706.8	718.2	719.9	652.6
65°	547.7	542.8	547.7	567.3	569.0	578.9	596.9	618.2	642.8	639.5	542.8
67.5°	467.3	467.3	467.3	480.5	490.3	495.3	518.2	528.0	559.2	562.5	452.6
70°	393.6	392.0	393.6	403.4	410.0	421.4	442.7	454.3	478.9	487.0	367.3
72.5°	323.1	321.4	323.1	331.2	337.8	347.7	365.7	378.8	400.1	410.0	285.4
75°	260.8	257.5	260.8	267.3	265.7	278.8	293.5	306.7	326.4	332.9	211.5
77.5°	200.1	200.1	200.1	206.6	206.6	219.8	226.3	242.7	254.2	264.1	155.8
80°	149.2	147.6	149.2	150.9	150.9	157.5	168.9	180.4	190.2	190.2	106.6
82.5°	104.9	101.6	104.9	104.9	104.9	108.2	114.8	118.0	124.6	129.6	67.2
85°	65.6	65.6	65.6	67.2	65.6	68.9	70.5	73.8	73.8	70.5	41.0
87.5°	42.6	41.0	42.6	41.0	41.0	39.3	39.3	39.3	37.7	36.0	23.0
90°	11.4	11.4	11.4	11.4	11.4	15.2	20.3	22.9	19.7	13.3	8.4
92.5°	45.7	36.6	45.7	54.8	57.1	80.9	112.7	128.6	112.9	81.5	57.9
95°	159.4	131.9	159.4	186.8	193.7	254.4	335.3	375.8	317.3	200.6	113.0
97.5°	381.9	329.6	381.9	434.2	447.3	485.7	536.7	562.3	464.9	270.2	124.0
100°	550.2	487.8	550.2	612.5	628.1	625.3	621.5	619.7	511.6	295.4	133.3
102.5°	715.7	662.3	715.7	769.1	782.5	733.6	668.5	636.0	526.4	307.1	142.6
105°	926.8	898.2	926.8	955.5	962.7	853.2	707.2	634.1	528.0	315.7	156.5
107.5°	1065.1	1072.1	1065.1	1058.1	1056.4	903.6	699.9	598.1	504.5	317.3	176.9
110°	1117.8	1147.8	1117.8	1087.9	1080.4	909.6	681.9	568.0	483.6	314.9	188.4





TEST NUMBER: P934984

CATALOG NUMBER: SQ4-FA-075U-125D-B2750-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1122.6	1168.5	1122.6	1076.7	1065.1	890.3	657.3	540.7	465.5	315.0	202.1
115°	1092.8	1156.5	1092.8	1029.1	1013.2	844.8	620.3	507.9	444.6	317.9	222.9
117.5°	1029.7	1100.3	1029.7	959.0	941.4	789.3	586.7	485.4	431.5	323.8	243.0
120°	978.8	1047.4	978.8	910.2	893.0	754.2	569.0	476.4	427.1	328.6	254.8
122.5°	929.3	997.0	929.3	861.6	844.7	719.6	552.8	469.5	424.8	335.5	268.5
125°	858.6	920.9	858.6	796.3	780.7	674.5	532.9	462.0	423.0	344.9	286.2
127.5°	795.1	847.7	795.1	742.5	729.4	638.2	516.6	455.7	421.9	354.2	303.4
130°	757.7	806.2	757.7	709.0	696.9	615.7	507.5	453.3	422.5	361.0	314.8
132.5°	723.6	767.2	723.6	680.1	669.3	596.6	499.6	451.2	423.0	366.5	324.1
135°	677.1	714.6	677.1	639.6	630.2	569.4	488.2	447.6	422.6	372.5	334.9
137.5°	639.7	670.5	639.7	609.0	601.4	549.9	481.3	447.0	425.2	381.5	348.7
140°	614.2	642.8	614.2	585.4	578.2	533.7	474.5	444.9	425.6	387.0	358.0
142.5°	592.8	617.5	592.8	568.2	562.0	523.0	470.9	444.9	427.1	391.6	364.9
145°	561.1	579.8	561.1	542.3	537.7	505.7	463.2	441.9	427.1	397.6	375.5
147.5°	536.6	552.1	536.6	521.1	517.3	492.2	458.6	441.9	430.0	406.4	388.7
150°	521.2	533.8	521.2	508.6	505.5	484.3	456.0	441.9	431.6	411.0	395.6
152.5°	508.0	517.5	508.0	498.6	496.2	478.1	454.0	441.9	432.6	414.1	400.1
155°	492.9	499.2	492.9	486.6	485.1	470.6	451.5	441.9	434.8	420.6	410.0
157.5°	481.0	485.4	481.0	476.6	475.5	464.2	449.3	441.9	437.0	427.2	420.0
160°	473.8	476.4	473.8	471.3	470.7	461.1	448.3	441.9	438.0	430.2	424.4
162.5°	469.2	471.6	469.2	466.8	466.2	458.0	447.3	441.9	439.1	433.4	429.3
165°	462.5	465.0	462.5	460.0	459.3	453.5	445.7	441.9	440.6	438.1	436.1
167.5°	457.7	458.7	457.7	456.6	456.3	452.5	447.4	444.9	443.8	441.7	440.0
170°	456.3	456.3	456.3	456.3	456.3	452.5	447.4	444.9	444.8	444.7	444.6
172.5°	452.7	451.7	452.7	453.7	453.9	450.9	446.9	444.9	444.9	444.9	444.9
175°	450.6	450.6	450.6	450.6	450.6	448.6	446.1	444.9	445.4	446.7	447.6
177.5°	448.6	447.6	448.6	449.7	450.0	448.5	446.4	445.4	445.9	446.9	447.6
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6



TEST NUMBER: P934984

CATALOG NUMBER: SQ4-FA-075U-125D-B2750-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1758.0	1748.1	1748.1	1731.7	1725.1	1720.2	1712.0	1687.4	1680.8	1674.3	1684.1
5°	1772.7	1754.7	1741.5	1712.0	1687.4	1677.5	1646.4	1587.4	1548.1	1518.5	1502.1
7.5°	1776.0	1753.0	1728.4	1682.5	1623.5	1597.2	1502.1	1393.9	1364.4	1338.1	1321.7
10°	1772.7	1746.4	1712.0	1643.1	1503.8	1457.9	1362.7	1292.2	1274.1	1269.3	1274.1
12.5°	1761.3	1736.6	1689.1	1574.2	1379.1	1348.0	1292.2	1251.2	1248.0	1256.1	1300.4
15°	1741.5	1718.6	1662.8	1482.5	1310.3	1287.3	1248.0	1233.1	1251.2	1308.6	1441.5
17.5°	1721.8	1695.7	1626.8	1392.3	1257.8	1241.4	1213.5	1243.0	1344.7	1421.7	1466.0
20°	1695.7	1664.5	1585.8	1326.7	1220.1	1205.3	1192.2	1325.0	1402.0	1430.0	1454.6
22.5°	1664.5	1631.7	1530.0	1280.7	1180.7	1169.2	1177.4	1370.9	1402.0	1421.7	1443.0
25°	1623.5	1595.6	1464.4	1244.7	1149.5	1136.4	1167.5	1366.0	1384.0	1389.0	1431.6
27.5°	1585.8	1549.6	1395.6	1211.8	1111.8	1106.9	1175.8	1344.7	1357.8	1362.7	1408.6
30°	1539.8	1485.7	1318.4	1177.4	1072.5	1070.8	1177.4	1318.4	1315.1	1328.3	1374.2
32.5°	1492.3	1390.6	1231.5	1134.8	1034.8	1033.1	1165.9	1279.1	1275.8	1293.8	1328.3
35°	1448.0	1316.8	1113.5	1085.6	987.2	988.9	1138.1	1233.1	1234.8	1251.2	1272.5
37.5°	1402.0	1252.8	983.9	1031.5	941.3	941.3	1100.3	1190.5	1187.2	1192.2	1221.7
40°	1348.0	1152.8	869.1	961.0	898.7	893.7	1054.5	1144.6	1133.1	1131.5	1172.5
42.5°	1290.6	1042.9	783.8	867.4	849.4	842.9	998.7	1088.9	1067.5	1072.5	1124.9
45°	1228.2	1013.5	718.2	733.0	798.6	793.7	938.0	1024.9	1010.2	1023.3	1077.4
47.5°	1165.9	954.4	696.9	608.4	744.5	742.8	870.7	962.6	954.4	967.5	1024.9
50°	1080.6	888.8	695.3	521.5	683.8	690.4	790.4	901.9	901.9	913.4	974.0
52.5°	970.8	808.4	631.3	472.3	613.3	633.0	719.9	849.4	852.7	864.3	918.3
55°	870.7	724.8	585.5	434.6	529.7	572.3	651.1	795.4	801.8	813.4	862.6
57.5°	779.0	603.5	575.6	390.3	452.6	493.6	590.3	742.8	746.1	756.0	803.5
60°	680.5	436.2	528.0	342.7	385.4	416.5	534.6	680.5	692.1	698.6	739.5
62.5°	569.0	316.5	478.9	309.9	352.5	359.1	488.7	621.5	636.2	641.2	665.8
65°	405.0	265.7	406.7	282.1	318.1	319.8	439.4	560.9	573.9	582.2	600.2
67.5°	273.8	216.5	309.9	255.8	291.9	293.5	392.0	490.3	508.3	514.9	526.4
70°	190.2	144.3	229.6	227.9	262.4	265.7	341.1	426.4	442.7	447.7	454.3
72.5°	139.3	116.5	190.2	204.9	231.2	234.5	288.6	354.2	370.6	375.5	378.8
75°	106.6	123.0	154.2	178.8	196.8	198.5	236.1	288.6	300.1	303.4	305.0
77.5°	85.3	114.8	113.2	144.3	160.7	157.5	185.3	223.1	232.9	232.9	232.9
80°	64.0	90.2	85.3	103.3	118.0	114.8	132.8	159.1	162.3	165.6	164.0
82.5°	47.6	57.4	57.4	65.6	78.7	75.4	88.6	103.3	103.3	103.3	106.6
85°	29.6	32.8	26.3	34.4	44.3	42.6	49.2	55.7	57.4	57.4	54.1
87.5°	18.0	14.7	8.2	13.1	19.7	19.7	23.0	24.6	23.0	23.0	23.0
90°	7.8	5.4	3.0	5.4	7.8	8.4	13.3	19.7	22.9	20.3	15.2
92.5°	52.8	32.5	12.0	32.5	52.8	57.9	81.5	112.9	128.6	112.7	80.9
95°	103.7	66.3	28.9	66.3	103.7	113.0	200.6	317.3	375.8	335.3	254.4
97.5°	115.8	82.8	49.9	82.8	115.8	124.0	270.2	464.9	562.3	536.7	485.7
100°	125.9	95.9	66.1	95.9	125.9	133.3	295.4	511.6	619.7	621.5	625.3
102.5°	135.7	107.8	79.9	107.8	135.7	142.6	307.1	526.4	636.0	668.5	733.6
105°	150.6	126.9	103.3	126.9	150.6	156.5	315.7	528.0	634.1	707.2	853.2
107.5°	171.4	149.4	127.3	149.4	171.4	176.9	317.3	504.5	598.1	699.9	903.6
110°	183.4	163.5	143.6	163.5	183.4	188.4	314.9	483.6	568.0	681.9	909.6



TEST NUMBER: P934984

CATALOG NUMBER: SQ4-FA-075U-125D-B2750-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	197.4	178.5	159.5	178.5	197.4	202.1	315.0	465.5	540.7	657.3	890.3
115°	218.5	201.0	183.5	201.0	218.5	222.9	317.9	444.6	507.9	620.3	844.8
117.5°	239.1	223.2	207.3	223.2	239.1	243.0	323.8	431.5	485.4	586.7	789.3
120°	251.0	236.0	221.1	236.0	251.0	254.8	328.6	427.1	476.4	569.0	754.2
122.5°	264.7	249.7	234.6	249.7	264.7	268.5	335.5	424.8	469.5	552.8	719.6
125°	282.9	269.1	255.3	269.1	282.9	286.2	344.9	423.0	462.0	532.9	674.5
127.5°	299.9	286.0	272.2	286.0	299.9	303.4	354.2	421.9	455.7	516.6	638.2
130°	311.0	296.1	281.2	296.1	311.0	314.8	361.0	422.5	453.3	507.5	615.7
132.5°	320.4	305.4	290.5	305.4	320.4	324.1	366.5	423.0	451.2	499.6	596.6
135°	331.5	317.8	304.3	317.8	331.5	334.9	372.5	422.6	447.6	488.2	569.4
137.5°	345.4	331.9	318.4	331.9	345.4	348.7	381.5	425.2	447.0	481.3	549.9
140°	354.9	342.5	330.1	342.5	354.9	358.0	387.0	425.6	444.9	474.5	533.7
142.5°	362.0	350.6	339.2	350.6	362.0	364.9	391.6	427.1	444.9	470.9	523.0
145°	373.0	363.0	352.9	363.0	373.0	375.5	397.6	427.1	441.9	463.2	505.7
147.5°	386.2	376.5	366.8	376.5	386.2	388.7	406.4	430.0	441.9	458.6	492.2
150°	393.4	384.6	375.8	384.6	393.4	395.6	411.0	431.6	441.9	456.0	484.3
152.5°	398.5	391.8	385.1	391.8	398.5	400.1	414.1	432.6	441.9	454.0	478.1
155°	408.7	403.9	398.9	403.9	408.7	410.0	420.6	434.8	441.9	451.5	470.6
157.5°	418.8	414.0	409.1	414.0	418.8	420.0	427.2	437.0	441.9	449.3	464.2
160°	423.5	419.8	416.0	419.8	423.5	424.4	430.2	438.0	441.9	448.3	461.1
162.5°	428.6	425.8	423.0	425.8	428.6	429.3	433.4	439.1	441.9	447.3	458.0
165°	435.5	432.9	430.4	432.9	435.5	436.1	438.1	440.6	441.9	445.7	453.5
167.5°	439.7	438.5	437.3	438.5	439.7	440.0	441.7	443.8	444.9	447.4	452.5
170°	444.3	443.0	441.9	443.0	444.3	444.6	444.7	444.8	444.9	447.4	452.5
172.5°	444.8	444.6	444.3	444.6	444.8	444.9	444.9	444.9	444.9	446.9	450.9
175°	447.6	447.6	447.6	447.6	447.6	447.6	446.7	445.4	444.9	446.1	448.6
177.5°	447.6	447.6	447.6	447.6	447.6	447.6	446.9	445.9	445.4	446.4	448.5
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6



TEST NUMBER: P934984

CATALOG NUMBER: SQ4-FA-075U-125D-B2750-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1672.7	1667.7	1674.3	1656.2	1674.3	1667.7	1672.7	1684.1	1674.3	1680.8	1687.4
5°	1467.6	1459.5	1433.2	1411.9	1433.2	1459.5	1467.6	1502.1	1518.5	1548.1	1587.4
7.5°	1311.9	1305.3	1298.8	1285.7	1298.8	1305.3	1311.9	1321.7	1338.1	1364.4	1393.9
10°	1277.4	1279.1	1289.0	1287.3	1289.0	1279.1	1277.4	1274.1	1269.3	1274.1	1292.2
12.5°	1366.0	1380.7	1434.9	1431.6	1434.9	1380.7	1366.0	1300.4	1256.1	1248.0	1251.2
15°	1467.6	1472.6	1484.1	1485.7	1484.1	1472.6	1467.6	1441.5	1308.6	1251.2	1233.1
17.5°	1477.5	1479.2	1487.3	1487.3	1487.3	1479.2	1477.5	1466.0	1421.7	1344.7	1243.0
20°	1469.3	1472.6	1489.0	1492.3	1489.0	1472.6	1469.3	1454.6	1430.0	1402.0	1325.0
22.5°	1466.0	1472.6	1485.7	1484.1	1485.7	1472.6	1466.0	1443.0	1421.7	1402.0	1370.9
25°	1449.6	1449.6	1451.3	1452.9	1451.3	1449.6	1449.6	1431.6	1389.0	1384.0	1366.0
27.5°	1415.2	1418.5	1428.3	1426.7	1428.3	1418.5	1415.2	1408.6	1362.7	1357.8	1344.7
30°	1384.0	1380.7	1372.6	1366.0	1372.6	1380.7	1384.0	1374.2	1328.3	1315.1	1318.4
32.5°	1331.6	1323.4	1315.1	1310.3	1315.1	1323.4	1331.6	1328.3	1293.8	1275.8	1279.1
35°	1269.3	1270.8	1269.3	1264.4	1269.3	1270.8	1269.3	1272.5	1251.2	1234.8	1233.1
37.5°	1225.0	1228.2	1226.7	1220.1	1226.7	1228.2	1225.0	1221.7	1192.2	1187.2	1190.5
40°	1179.1	1180.7	1179.1	1174.1	1179.1	1180.7	1179.1	1172.5	1131.5	1133.1	1144.6
42.5°	1134.8	1133.1	1128.2	1124.9	1128.2	1133.1	1134.8	1124.9	1072.5	1067.5	1088.9
45°	1083.9	1085.6	1075.8	1070.8	1075.8	1085.6	1083.9	1077.4	1023.3	1010.2	1024.9
47.5°	1033.1	1033.1	1024.9	1020.0	1024.9	1033.1	1033.1	1024.9	967.5	954.4	962.6
50°	979.0	977.3	965.9	964.3	965.9	977.3	979.0	974.0	913.4	901.9	901.9
52.5°	916.7	916.7	918.3	921.6	918.3	916.7	916.7	918.3	864.3	852.7	849.4
55°	862.6	864.3	875.7	879.0	875.7	864.3	862.6	862.6	813.4	801.8	795.4
57.5°	806.8	806.8	815.0	815.0	815.0	806.8	806.8	803.5	756.0	746.1	742.8
60°	742.8	746.1	752.7	751.1	752.7	746.1	742.8	739.5	698.6	692.1	680.5
62.5°	675.6	678.9	680.5	677.2	680.5	678.9	675.6	665.8	641.2	636.2	621.5
65°	605.1	608.4	610.0	606.8	610.0	608.4	605.1	600.2	582.2	573.9	560.9
67.5°	532.9	531.3	529.7	536.2	529.7	531.3	532.9	526.4	514.9	508.3	490.3
70°	459.1	459.1	457.6	460.8	457.6	459.1	459.1	454.3	447.7	442.7	426.4
72.5°	380.4	378.8	385.4	380.4	385.4	378.8	380.4	378.8	375.5	370.6	354.2
75°	303.4	306.7	303.4	308.3	303.4	306.7	303.4	305.0	303.4	300.1	288.6
77.5°	231.2	234.5	231.2	231.2	231.2	234.5	231.2	232.9	232.9	232.9	223.1
80°	164.0	162.3	162.3	160.7	162.3	162.3	164.0	164.0	165.6	162.3	159.1
82.5°	104.9	103.3	103.3	106.6	103.3	103.3	104.9	106.6	103.3	103.3	103.3
85°	57.4	59.0	55.7	55.7	55.7	59.0	57.4	54.1	57.4	57.4	55.7
87.5°	21.3	19.7	19.7	19.7	19.7	19.7	21.3	23.0	23.0	23.0	24.6
90°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	15.2	20.3	22.9	19.7
92.5°	57.1	54.8	45.7	36.6	45.7	54.8	57.1	80.9	112.7	128.6	112.9
95°	193.7	186.8	159.4	131.9	159.4	186.8	193.7	254.4	335.3	375.8	317.3
97.5°	447.3	434.2	381.9	329.6	381.9	434.2	447.3	485.7	536.7	562.3	464.9
100°	628.1	612.5	550.2	487.8	550.2	612.5	628.1	625.3	621.5	619.7	511.6
102.5°	782.5	769.1	715.7	662.3	715.7	769.1	782.5	733.6	668.5	636.0	526.4
105°	962.7	955.5	926.8	898.2	926.8	955.5	962.7	853.2	707.2	634.1	528.0
107.5°	1056.4	1058.1	1065.1	1072.1	1065.1	1058.1	1056.4	903.6	699.9	598.1	504.5
110°	1080.4	1087.9	1117.8	1147.8	1117.8	1087.9	1080.4	909.6	681.9	568.0	483.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1065.1	1076.7	1122.6	1168.5	1122.6	1076.7	1065.1	890.3	657.3	540.7	465.5
115°	1013.2	1029.1	1092.8	1156.5	1092.8	1029.1	1013.2	844.8	620.3	507.9	444.6
117.5°	941.4	959.0	1029.7	1100.3	1029.7	959.0	941.4	789.3	586.7	485.4	431.5
120°	893.0	910.2	978.8	1047.4	978.8	910.2	893.0	754.2	569.0	476.4	427.1
122.5°	844.7	861.6	929.3	997.0	929.3	861.6	844.7	719.6	552.8	469.5	424.8
125°	780.7	796.3	858.6	920.9	858.6	796.3	780.7	674.5	532.9	462.0	423.0
127.5°	729.4	742.5	795.1	847.7	795.1	742.5	729.4	638.2	516.6	455.7	421.9
130°	696.9	709.0	757.7	806.2	757.7	709.0	696.9	615.7	507.5	453.3	422.5
132.5°	669.3	680.1	723.6	767.2	723.6	680.1	669.3	596.6	499.6	451.2	423.0
135°	630.2	639.6	677.1	714.6	677.1	639.6	630.2	569.4	488.2	447.6	422.6
137.5°	601.4	609.0	639.7	670.5	639.7	609.0	601.4	549.9	481.3	447.0	425.2
140°	578.2	585.4	614.2	642.8	614.2	585.4	578.2	533.7	474.5	444.9	425.6
142.5°	562.0	568.2	592.8	617.5	592.8	568.2	562.0	523.0	470.9	444.9	427.1
145°	537.7	542.3	561.1	579.8	561.1	542.3	537.7	505.7	463.2	441.9	427.1
147.5°	517.3	521.1	536.6	552.1	536.6	521.1	517.3	492.2	458.6	441.9	430.0
150°	505.5	508.6	521.2	533.8	521.2	508.6	505.5	484.3	456.0	441.9	431.6
152.5°	496.2	498.6	508.0	517.5	508.0	498.6	496.2	478.1	454.0	441.9	432.6
155°	485.1	486.6	492.9	499.2	492.9	486.6	485.1	470.6	451.5	441.9	434.8
157.5°	475.5	476.6	481.0	485.4	481.0	476.6	475.5	464.2	449.3	441.9	437.0
160°	470.7	471.3	473.8	476.4	473.8	471.3	470.7	461.1	448.3	441.9	438.0
162.5°	466.2	466.8	469.2	471.6	469.2	466.8	466.2	458.0	447.3	441.9	439.1
165°	459.3	460.0	462.5	465.0	462.5	460.0	459.3	453.5	445.7	441.9	440.6
167.5°	456.3	456.6	457.7	458.7	457.7	456.6	456.3	452.5	447.4	444.9	443.8
170°	456.3	456.3	456.3	456.3	456.3	456.3	456.3	452.5	447.4	444.9	444.8
172.5°	453.9	453.7	452.7	451.7	452.7	453.7	453.9	450.9	446.9	444.9	444.9
175°	450.6	450.6	450.6	450.6	450.6	450.6	450.6	448.6	446.1	444.9	445.4
177.5°	450.0	449.7	448.6	447.6	448.6	449.7	450.0	448.5	446.4	445.4	445.9
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1712.0	1720.2	1725.1	1731.7	1748.1
5°	1646.4	1677.5	1687.4	1712.0	1741.5
7.5°	1502.1	1597.2	1623.5	1682.5	1728.4
10°	1362.7	1457.9	1503.8	1643.1	1712.0
12.5°	1292.2	1348.0	1379.1	1574.2	1689.1
15°	1248.0	1287.3	1310.3	1482.5	1662.8
17.5°	1213.5	1241.4	1257.8	1392.3	1626.8
20°	1192.2	1205.3	1220.1	1326.7	1585.8
22.5°	1177.4	1169.2	1180.7	1280.7	1530.0
25°	1167.5	1136.4	1149.5	1244.7	1464.4
27.5°	1175.8	1106.9	1111.8	1211.8	1395.6
30°	1177.4	1070.8	1072.5	1177.4	1318.4
32.5°	1165.9	1033.1	1034.8	1134.8	1231.5
35°	1138.1	988.9	987.2	1085.6	1113.5
37.5°	1100.3	941.3	941.3	1031.5	983.9
40°	1054.5	893.7	898.7	961.0	869.1
42.5°	998.7	842.9	849.4	867.4	783.8
45°	938.0	793.7	798.6	733.0	718.2
47.5°	870.7	742.8	744.5	608.4	696.9
50°	790.4	690.4	683.8	521.5	695.3
52.5°	719.9	633.0	613.3	472.3	631.3
55°	651.1	572.3	529.7	434.6	585.5
57.5°	590.3	493.6	452.6	390.3	575.6
60°	534.6	416.5	385.4	342.7	528.0
62.5°	488.7	359.1	352.5	309.9	478.9
65°	439.4	319.8	318.1	282.1	406.7
67.5°	392.0	293.5	291.9	255.8	309.9
70°	341.1	265.7	262.4	227.9	229.6
72.5°	288.6	234.5	231.2	204.9	190.2
75°	236.1	198.5	196.8	178.8	154.2
77.5°	185.3	157.5	160.7	144.3	113.2
80°	132.8	114.8	118.0	103.3	85.3
82.5°	88.6	75.4	78.7	65.6	57.4
85°	49.2	42.6	44.3	34.4	26.3
87.5°	23.0	19.7	19.7	13.1	8.2
90°	13.3	8.4	7.8	5.4	3.0
92.5°	81.5	57.9	52.8	32.5	12.0
95°	200.6	113.0	103.7	66.3	28.9
97.5°	270.2	124.0	115.8	82.8	49.9
100°	295.4	133.3	125.9	95.9	66.1
102.5°	307.1	142.6	135.7	107.8	79.9
105°	315.7	156.5	150.6	126.9	103.3
107.5°	317.3	176.9	171.4	149.4	127.3
110°	314.9	188.4	183.4	163.5	143.6



TEST NUMBER: P934984

CATALOG NUMBER: SQ4-FA-075U-125D-B2750-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	315.0	202.1	197.4	178.5	159.5
115°	317.9	222.9	218.5	201.0	183.5
117.5°	323.8	243.0	239.1	223.2	207.3
120°	328.6	254.8	251.0	236.0	221.1
122.5°	335.5	268.5	264.7	249.7	234.6
125°	344.9	286.2	282.9	269.1	255.3
127.5°	354.2	303.4	299.9	286.0	272.2
130°	361.0	314.8	311.0	296.1	281.2
132.5°	366.5	324.1	320.4	305.4	290.5
135°	372.5	334.9	331.5	317.8	304.3
137.5°	381.5	348.7	345.4	331.9	318.4
140°	387.0	358.0	354.9	342.5	330.1
142.5°	391.6	364.9	362.0	350.6	339.2
145°	397.6	375.5	373.0	363.0	352.9
147.5°	406.4	388.7	386.2	376.5	366.8
150°	411.0	395.6	393.4	384.6	375.8
152.5°	414.1	400.1	398.5	391.8	385.1
155°	420.6	410.0	408.7	403.9	398.9
157.5°	427.2	420.0	418.8	414.0	409.1
160°	430.2	424.4	423.5	419.8	416.0
162.5°	433.4	429.3	428.6	425.8	423.0
165°	438.1	436.1	435.5	432.9	430.4
167.5°	441.7	440.0	439.7	438.5	437.3
170°	444.7	444.6	444.3	443.0	441.9
172.5°	444.9	444.9	444.8	444.6	444.3
175°	446.7	447.6	447.6	447.6	447.6
177.5°	446.9	447.6	447.6	447.6	447.6
180°	447.6	447.6	447.6	447.6	447.6



TEST NUMBER: P934984  
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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	15.38	16.35	16.24	17.23	18.34	18.18	19.15	19.04	20.03	21.14
	3H	15.87	16.74	16.74	17.63	18.76	19.52	20.39	20.40	21.28	22.42
	4H	16.07	16.88	16.95	17.78	18.93	19.97	20.79	20.85	21.68	22.83
	6H	16.19	16.95	17.09	17.85	19.01	20.25	21.01	21.15	21.91	23.07
	8H	16.19	16.91	17.10	17.83	18.99	20.32	21.04	21.23	21.96	23.12
	12H	16.17	16.85	17.08	17.77	18.95	20.36	21.05	21.27	21.96	23.14
4H	2H	16.42	17.24	17.31	18.14	19.28	18.61	19.42	19.50	20.32	21.47
	3H	17.46	18.14	18.36	19.07	20.23	20.11	20.79	21.01	21.72	22.88
	4H	17.74	18.36	18.65	19.28	20.47	20.64	21.26	21.55	22.18	23.37
	6H	17.87	18.41	18.80	19.35	20.54	21.00	21.54	21.93	22.48	23.67
	8H	17.88	18.38	18.81	19.32	20.52	21.10	21.61	22.04	22.55	23.75
	12H	17.85	18.30	18.80	19.26	20.47	21.16	21.61	22.11	22.57	23.78
8H	4H	18.20	18.70	19.13	19.64	20.84	20.77	21.27	21.70	22.21	23.41
	6H	18.46	18.88	19.42	19.86	21.06	21.20	21.62	22.16	22.60	23.80
	8H	18.51	18.87	19.47	19.85	21.06	21.35	21.72	22.32	22.69	23.91
	12H	18.49	18.82	19.47	19.78	21.05	21.45	21.77	22.42	22.74	24.00
12H	4H	18.21	18.66	19.16	19.62	20.82	20.74	21.19	21.69	22.15	23.36
	6H	18.52	18.89	19.49	19.86	21.08	21.20	21.57	22.17	22.54	23.76
	8H	18.59	18.92	19.56	19.88	21.15	21.36	21.69	22.33	22.65	23.92