

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: P935886

Luminaire Tested: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

**Test Information**

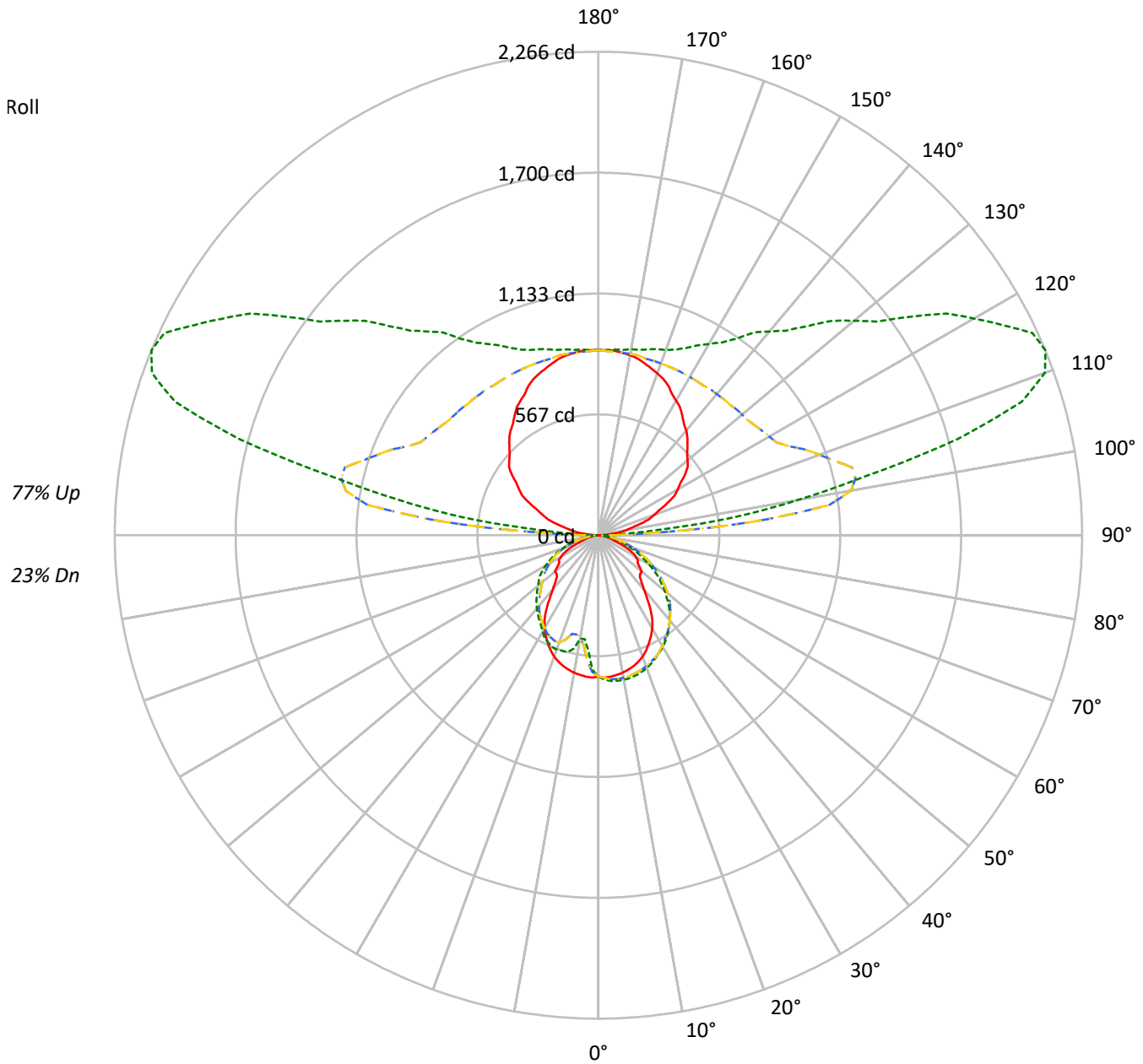
Test Method: LM-79-2019  
Report Number: P935886  
REPORT IS A COMBINATION OF REPORTS P933770 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7346.9 lumens  
Efficiency: N/A  
Efficacy: 132.1 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-Indirect  
  
Input Watts (W): 55.6  
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

TEST NUMBER: P935886  
CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-5000K

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

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

	0°	90°	180°	270°
0°	6144	6144	6144	6144
5°	6183	6202	6183	4876
10°	6135	6109	6135	4368
15°	6061	5977	6061	4991
20°	5927	5820	5927	5001
25°	5661	5591	5661	4895
30°	5319	5402	5319	4663
35°	4735	5161	4735	4407
40°	3938	4879	3938	4214
45°	3512	4548	3512	3991
50°	3723	4153	3723	3768
55°	3493	3728	3493	3640
60°	3588	3165	3588	3333
65°	3236	2617	3236	2925
70°	2226	2086	2226	2453
75°	1928	1543	1928	1847
80°	1526	1020	1526	1110
85°	828	539	828	459

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5393 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	0.8
10°-20°	169.7	2.3
20°-30°	262.3	3.6
30°-40°	313.1	4.3
40°-50°	315.0	4.3
50°-60°	274.1	3.7
60°-70°	194.3	2.6
70°-80°	102.8	1.4
80°-90°	28.9	0.4
90°-100°	423.1	5.8
100°-110°	1112.4	15.1
110°-120°	1153.4	15.7
120°-130°	925.2	12.6
130°-140°	725.9	9.9
140°-150°	557.2	7.6
150°-160°	401.3	5.5
160°-170°	245.5	3.3
170°-180°	82.9	1.1
0°-30°	491.8	6.7
0°-40°	804.9	11.0
0°-60°	1394.0	19.0
0°-90°	1720.0	23.4
90°-120°	2688.9	36.6
90°-150°	4897.1	66.7
90°-180°	5627.0	76.6
0°-180°	7346.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	662	662	662	662	662	
5°	665	686	665	539	665	63
15°	635	680	635	568	635	179
25°	559	634	559	555	559	257
35°	425	566	425	483	425	263
45°	274	466	274	409	274	220
55°	224	344	224	336	224	206
65°	155	207	155	232	155	148
75°	59	98	59	118	59	62
85°	10	25	10	21	10	14
90°	6	22	6	22	6	5
95°	56	256	56	256	56	62
105°	200	1742	200	1742	200	212
115°	356	2243	356	2243	356	352
125°	495	1786	495	1786	495	440
135°	590	1386	590	1386	590	457
145°	684	1124	684	1124	684	429
155°	774	968	774	968	774	355
165°	835	902	835	902	835	236
175°	868	874	868	874	868	82
180°	868	868	868	868	868	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	667.7	667.7	671.5	672.8	672.8	670.9	669.0	670.9	676.5	678.4	677.7
5°	665.2	670.2	677.2	678.4	679.7	679.0	677.7	679.0	685.3	686.5	687.1
7.5°	660.2	669.6	678.4	680.2	682.1	680.2	679.7	680.9	687.1	688.4	688.4
10°	654.0	667.1	677.2	678.4	680.2	678.4	678.4	680.9	687.1	688.4	689.0
12.5°	645.2	663.3	672.8	674.0	676.5	675.8	675.3	677.7	684.1	685.3	685.3
15°	635.1	656.4	665.2	666.5	670.9	669.6	669.6	672.1	679.0	680.9	680.2
17.5°	621.4	647.7	657.7	659.6	662.8	662.1	662.8	665.2	671.5	672.8	673.4
20°	605.7	635.8	647.7	649.6	652.7	652.7	652.7	655.9	662.1	664.6	664.6
22.5°	584.4	623.3	635.8	637.1	640.8	640.8	642.0	646.4	652.0	652.7	652.7
25°	559.4	609.4	620.1	623.9	627.6	629.5	631.4	633.9	635.8	635.1	635.8
27.5°	533.0	592.0	605.7	608.2	613.3	615.1	617.7	618.2	618.9	620.7	619.5
30°	503.6	567.5	588.1	590.7	598.8	600.1	597.6	598.8	602.0	603.2	604.5
32.5°	470.5	531.2	570.0	575.6	583.2	579.5	578.8	580.7	585.7	585.7	586.9
35°	425.3	503.0	553.1	558.2	563.8	559.4	561.9	562.5	565.6	567.5	566.8
37.5°	375.8	478.6	535.6	539.3	543.7	538.1	541.8	543.7	546.2	545.0	545.0
40°	331.9	440.4	514.9	517.4	521.2	516.8	520.5	521.8	523.0	521.8	521.2
42.5°	299.4	398.4	493.0	496.1	493.6	496.7	498.0	500.5	498.6	496.1	496.1
45°	274.3	387.1	469.1	472.9	469.1	474.2	476.1	476.1	470.5	469.1	468.5
47.5°	266.2	364.5	445.3	445.3	443.5	449.7	452.9	448.5	442.9	440.9	440.9
50°	265.6	339.5	412.8	410.3	419.1	426.6	423.5	419.1	414.7	407.8	407.8
52.5°	241.2	308.8	370.8	380.2	394.0	398.4	393.4	389.0	381.4	378.4	375.8
55°	223.6	276.8	332.6	351.4	365.8	371.5	362.0	357.6	346.4	344.6	343.2
57.5°	219.9	230.5	297.6	321.3	338.9	338.3	332.6	324.5	315.0	313.2	312.6
60°	201.7	166.6	259.9	288.1	306.3	304.4	299.4	291.9	283.1	281.9	280.7
62.5°	182.9	120.9	217.3	249.3	275.0	274.3	270.0	258.7	252.5	249.3	246.8
65°	155.3	101.4	154.8	207.3	244.3	245.5	236.1	228.0	221.1	217.3	216.7
67.5°	118.4	82.7	104.6	172.9	214.8	213.6	201.7	197.9	189.1	187.3	183.5
70°	87.7	55.1	72.7	140.3	186.1	182.9	173.5	169.1	161.0	156.6	154.1
72.5°	72.7	44.5	53.2	109.0	156.6	152.8	144.7	139.7	132.8	129.1	126.6
75°	58.8	47.0	40.7	80.8	127.1	124.7	117.1	112.1	106.5	101.4	102.1
77.5°	43.2	43.8	32.6	59.5	100.9	97.1	92.7	86.5	84.0	78.9	78.9
80°	32.6	34.5	24.5	40.7	72.7	72.7	68.9	64.5	60.1	57.6	57.6
82.5°	21.9	21.9	18.1	25.7	49.5	47.6	45.1	43.8	41.4	40.1	40.1
85°	10.0	12.5	11.3	15.7	26.9	28.2	28.2	26.9	26.3	25.0	25.7
87.5°	3.2	5.6	6.9	8.8	13.8	14.4	15.0	15.0	15.0	15.7	15.7
90°	5.8	10.5	15.1	16.3	25.7	38.1	44.3	39.3	29.5	22.1	22.1
92.5°	23.3	62.9	102.6	112.5	158.0	218.8	249.3	218.5	156.9	110.7	106.3
95°	55.9	128.4	200.9	219.0	388.9	615.5	728.8	650.3	493.4	375.7	362.4
97.5°	96.7	160.6	224.6	240.6	523.9	901.7	1090.5	1040.9	941.8	867.4	842.0
100°	128.1	186.1	244.1	258.6	573.0	992.2	1201.8	1205.4	1212.7	1218.1	1187.9
102.5°	155.0	209.1	263.2	276.7	595.6	1020.7	1233.3	1296.4	1422.8	1517.6	1491.7
105°	200.4	246.3	292.1	303.6	612.2	1023.9	1229.7	1371.3	1654.6	1867.1	1853.1
107.5°	247.0	289.7	332.5	343.2	615.4	978.4	1159.8	1357.4	1752.5	2048.8	2052.2
110°	278.4	317.0	355.7	365.3	610.7	937.9	1101.6	1322.5	1764.1	2095.4	2109.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	309.3	346.1	382.9	392.1	610.9	902.7	1048.6	1274.6	1726.7	2065.7	2088.0
115°	355.9	389.9	423.8	432.3	616.5	862.3	985.1	1202.8	1638.3	1964.9	1995.9
117.5°	402.0	432.8	463.6	471.3	628.0	837.0	941.4	1137.9	1530.9	1825.7	1860.0
120°	428.7	457.8	486.7	494.0	637.3	828.4	923.9	1103.4	1462.6	1731.9	1765.2
122.5°	455.0	484.2	513.5	520.8	650.7	824.0	910.6	1072.2	1395.6	1638.1	1670.9
125°	495.2	521.8	548.5	555.2	668.7	820.2	896.0	1033.3	1308.0	1514.0	1544.3
127.5°	527.8	554.7	581.6	588.3	686.8	818.1	883.8	1001.7	1237.6	1414.4	1439.9
130°	545.3	574.2	603.2	610.5	700.0	819.4	879.1	984.1	1194.0	1351.5	1375.0
132.5°	563.3	592.3	621.3	628.6	710.7	820.2	875.0	968.9	1156.9	1297.9	1319.0
135°	590.1	616.5	642.9	649.5	722.4	819.4	868.0	946.7	1104.1	1222.1	1240.4
137.5°	617.5	643.6	669.8	676.3	739.8	824.5	866.8	933.3	1066.4	1166.3	1181.1
140°	640.3	664.4	688.5	694.4	750.6	825.4	862.7	920.2	1035.2	1121.4	1135.3
142.5°	657.7	680.0	702.2	707.8	759.4	828.3	862.7	913.3	1014.2	1090.0	1101.9
145°	684.5	704.0	723.3	728.1	771.1	828.4	856.9	898.2	980.8	1042.7	1051.8
147.5°	711.2	730.2	749.1	753.8	788.2	834.1	856.9	889.4	954.4	1003.1	1010.6
150°	728.8	745.9	762.9	767.2	797.1	837.0	856.9	884.4	939.2	980.4	986.5
152.5°	746.8	759.8	772.7	776.0	803.0	838.9	856.9	880.4	927.3	962.4	967.0
155°	773.6	783.3	792.8	795.2	815.8	843.2	856.9	875.6	912.9	940.8	943.9
157.5°	793.4	802.8	812.0	814.4	828.6	847.5	856.9	871.4	900.4	922.1	924.3
160°	806.8	814.1	821.4	823.1	834.4	849.5	856.9	869.4	894.2	912.8	914.0
162.5°	820.2	825.7	831.1	832.5	840.6	851.5	856.9	867.4	888.4	904.1	905.2
165°	834.8	839.7	844.6	845.8	849.6	854.5	856.9	864.4	879.5	890.7	891.9
167.5°	848.2	850.5	852.8	853.4	856.5	860.7	862.7	867.7	877.5	884.9	885.4
170°	856.9	859.3	861.6	862.2	862.4	862.6	862.7	867.7	877.5	884.9	884.9
172.5°	861.6	862.1	862.6	862.7	862.7	862.7	862.7	866.7	874.4	880.2	879.7
175°	868.0	868.0	868.0	868.0	866.2	863.9	862.7	865.2	870.1	873.9	873.9
177.5°	868.0	868.0	868.0	868.0	866.7	864.9	864.0	865.9	869.7	872.6	872.1
180°	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	679.0	677.2	679.0	677.7	678.4	676.5	670.9	669.0	670.9	672.8	672.8
5°	687.1	685.9	687.1	687.1	686.5	685.3	679.0	677.7	679.0	679.7	678.4
7.5°	689.7	687.8	689.7	688.4	688.4	687.1	680.9	679.7	680.2	682.1	680.2
10°	689.7	687.8	689.7	689.0	688.4	687.1	680.9	678.4	678.4	680.2	678.4
12.5°	686.5	685.3	686.5	685.3	685.3	684.1	677.7	675.3	675.8	676.5	674.0
15°	681.5	679.7	681.5	680.2	680.9	679.0	672.1	669.6	669.6	670.9	666.5
17.5°	674.0	671.5	674.0	673.4	672.8	671.5	665.2	662.8	662.1	662.8	659.6
20°	665.2	663.3	665.2	664.6	664.6	662.1	655.9	652.7	652.7	652.7	649.6
22.5°	651.5	649.6	651.5	652.7	652.7	652.0	646.4	642.0	640.8	640.8	637.1
25°	635.8	633.9	635.8	635.8	635.1	635.8	633.9	631.4	629.5	627.6	623.9
27.5°	620.7	619.5	620.7	619.5	620.7	618.9	618.2	617.7	615.1	613.3	608.2
30°	605.7	604.5	605.7	604.5	603.2	602.0	598.8	597.6	600.1	598.8	590.7
32.5°	586.9	585.7	586.9	586.9	585.7	585.7	580.7	578.8	579.5	583.2	575.6
35°	567.5	565.6	567.5	566.8	567.5	565.6	562.5	561.9	559.4	563.8	558.2
37.5°	545.0	543.1	545.0	545.0	545.0	546.2	543.7	541.8	538.1	543.7	539.3
40°	521.8	519.3	521.8	521.2	521.8	523.0	521.8	520.5	516.8	521.2	517.4
42.5°	495.5	494.8	495.5	496.1	496.1	498.6	500.5	498.0	496.7	493.6	496.1
45°	467.3	466.1	467.3	468.5	469.1	470.5	476.1	476.1	474.2	469.1	472.9
47.5°	437.2	434.1	437.2	440.9	440.9	442.9	448.5	452.9	449.7	443.5	445.3
50°	405.3	405.9	405.3	407.8	407.8	414.7	419.1	423.5	426.6	419.1	410.3
52.5°	374.0	373.3	374.0	375.8	378.4	381.4	389.0	393.4	398.4	394.0	380.2
55°	342.6	343.9	342.6	343.2	344.6	346.4	357.6	362.0	371.5	365.8	351.4
57.5°	311.3	309.4	311.3	312.6	313.2	315.0	324.5	332.6	338.3	338.9	321.3
60°	275.0	272.4	275.0	280.7	281.9	283.1	291.9	299.4	304.4	306.3	288.1
62.5°	243.0	238.6	243.0	246.8	249.3	252.5	258.7	270.0	274.3	275.0	249.3
65°	209.2	207.3	209.2	216.7	217.3	221.1	228.0	236.1	245.5	244.3	207.3
67.5°	178.5	178.5	178.5	183.5	187.3	189.1	197.9	201.7	213.6	214.8	172.9
70°	150.4	149.7	150.4	154.1	156.6	161.0	169.1	173.5	182.9	186.1	140.3
72.5°	123.4	122.7	123.4	126.6	129.1	132.8	139.7	144.7	152.8	156.6	109.0
75°	99.6	98.4	99.6	102.1	101.4	106.5	112.1	117.1	124.7	127.1	80.8
77.5°	76.4	76.4	76.4	78.9	78.9	84.0	86.5	92.7	97.1	100.9	59.5
80°	57.0	56.4	57.0	57.6	57.6	60.1	64.5	68.9	72.7	72.7	40.7
82.5°	40.1	38.9	40.1	40.1	40.1	41.4	43.8	45.1	47.6	49.5	25.7
85°	25.0	25.0	25.0	25.7	25.0	26.3	26.9	28.2	28.2	26.9	15.7
87.5°	16.3	15.7	16.3	15.7	15.7	15.0	15.0	15.0	14.4	13.8	8.8
90°	22.1	22.1	22.1	22.1	22.1	29.5	39.3	44.3	38.1	25.7	16.3
92.5°	88.6	71.1	88.6	106.3	110.7	156.9	218.5	249.3	218.8	158.0	112.5
95°	309.1	255.7	309.1	362.4	375.7	493.4	650.3	728.8	615.5	388.9	219.0
97.5°	740.6	639.0	740.6	842.0	867.4	941.8	1040.9	1090.5	901.7	523.9	240.6
100°	1067.0	946.0	1067.0	1187.9	1218.1	1212.7	1205.4	1201.8	992.2	573.0	258.6
102.5°	1388.1	1284.5	1388.1	1491.7	1517.6	1422.8	1296.4	1233.3	1020.7	595.6	276.7
105°	1797.5	1741.8	1797.5	1853.1	1867.1	1654.6	1371.3	1229.7	1023.9	612.2	303.6
107.5°	2065.6	2079.1	2065.6	2052.2	2048.8	1752.5	1357.4	1159.8	978.4	615.4	343.2
110°	2167.9	2225.9	2167.9	2109.9	2095.4	1764.1	1322.5	1101.6	937.9	610.7	365.3





TEST NUMBER: P935886

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2177.1	2266.1	2177.1	2088.0	2065.7	1726.7	1274.6	1048.6	902.7	610.9	392.1
115°	2119.3	2242.8	2119.3	1995.9	1964.9	1638.3	1202.8	985.1	862.3	616.5	432.3
117.5°	1996.9	2133.8	1996.9	1860.0	1825.7	1530.9	1137.9	941.4	837.0	628.0	471.3
120°	1898.3	2031.4	1898.3	1765.2	1731.9	1462.6	1103.4	923.9	828.4	637.3	494.0
122.5°	1802.2	1933.5	1802.2	1670.9	1638.1	1395.6	1072.2	910.6	824.0	650.7	520.8
125°	1665.1	1786.1	1665.1	1544.3	1514.0	1308.0	1033.3	896.0	820.2	668.7	555.2
127.5°	1541.9	1643.9	1541.9	1439.9	1414.4	1237.6	1001.7	883.8	818.1	686.8	588.3
130°	1469.3	1563.5	1469.3	1375.0	1351.5	1194.0	984.1	879.1	819.4	700.0	610.5
132.5°	1403.3	1487.8	1403.3	1319.0	1297.9	1156.9	968.9	875.0	820.2	710.7	628.6
135°	1313.1	1385.9	1313.1	1240.4	1222.1	1104.1	946.7	868.0	819.4	722.4	649.5
137.5°	1240.7	1300.2	1240.7	1181.1	1166.3	1066.4	933.3	866.8	824.5	739.8	676.3
140°	1190.9	1246.6	1190.9	1135.3	1121.4	1035.2	920.2	862.7	825.4	750.6	694.4
142.5°	1149.8	1197.7	1149.8	1101.9	1090.0	1014.2	913.3	862.7	828.3	759.4	707.8
145°	1088.1	1124.3	1088.1	1051.8	1042.7	980.8	898.2	856.9	828.4	771.1	728.1
147.5°	1040.7	1070.7	1040.7	1010.6	1003.1	954.4	889.4	856.9	834.1	788.2	753.8
150°	1010.9	1035.2	1010.9	986.5	980.4	939.2	884.4	856.9	837.0	797.1	767.2
152.5°	985.4	1003.7	985.4	967.0	962.4	927.3	880.4	856.9	838.9	803.0	776.0
155°	956.0	968.2	956.0	943.9	940.8	912.9	875.6	856.9	843.2	815.8	795.2
157.5°	932.8	941.4	932.8	924.3	922.1	900.4	871.4	856.9	847.5	828.6	814.4
160°	919.0	923.9	919.0	914.0	912.8	894.2	869.4	856.9	849.5	834.4	823.1
162.5°	909.9	914.6	909.9	905.2	904.1	888.4	867.4	856.9	851.5	840.6	832.5
165°	896.8	901.8	896.8	891.9	890.7	879.5	864.4	856.9	854.5	849.6	845.8
167.5°	887.5	889.5	887.5	885.4	884.9	877.5	867.7	862.7	860.7	856.5	853.4
170°	884.9	884.9	884.9	884.9	884.9	877.5	867.7	862.7	862.6	862.4	862.2
172.5°	878.0	876.2	878.0	879.7	880.2	874.4	866.7	862.7	862.7	862.7	862.7
175°	873.9	873.9	873.9	873.9	873.9	870.1	865.2	862.7	863.9	866.2	868.0
177.5°	870.0	868.0	870.0	872.1	872.6	869.7	865.9	864.0	864.9	866.7	868.0
180°	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0



TEST NUMBER: P935886

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	671.5	667.7	667.7	661.5	658.9	657.1	654.0	644.6	642.0	639.5	643.3
5°	677.2	670.2	665.2	654.0	644.6	640.8	628.9	606.4	591.3	580.0	573.8
7.5°	678.4	669.6	660.2	642.7	620.1	610.1	573.8	532.5	521.2	511.2	504.8
10°	677.2	667.1	654.0	627.6	574.4	556.9	520.5	493.6	486.7	484.8	486.7
12.5°	672.8	663.3	645.2	601.3	526.8	514.9	493.6	477.9	476.7	479.8	496.7
15°	665.2	656.4	635.1	566.3	500.5	491.8	476.7	471.0	477.9	499.9	550.6
17.5°	657.7	647.7	621.4	531.8	480.4	474.2	463.5	474.8	513.6	543.1	560.0
20°	647.7	635.8	605.7	506.8	466.1	460.4	455.4	506.1	535.6	546.2	555.6
22.5°	635.8	623.3	584.4	489.2	451.0	446.6	449.7	523.7	535.6	543.1	551.2
25°	620.1	609.4	559.4	475.4	439.1	434.1	446.0	521.8	528.6	530.5	546.9
27.5°	605.7	592.0	533.0	462.9	424.7	422.8	449.2	513.6	518.7	520.5	538.1
30°	588.1	567.5	503.6	449.7	409.7	409.0	449.7	503.6	502.4	507.3	524.9
32.5°	570.0	531.2	470.5	433.5	395.3	394.6	445.3	488.6	487.4	494.2	507.3
35°	553.1	503.0	425.3	414.7	377.1	377.7	434.7	471.0	471.7	477.9	486.1
37.5°	535.6	478.6	375.8	394.0	359.6	359.6	420.3	454.8	453.6	455.4	466.6
40°	514.9	440.4	331.9	367.1	343.2	341.4	402.7	437.2	432.8	432.3	447.9
42.5°	493.0	398.4	299.4	331.4	324.5	321.9	381.4	415.9	407.8	409.7	429.7
45°	469.1	387.1	274.3	280.0	305.0	303.2	358.3	391.5	385.8	390.9	411.5
47.5°	445.3	364.5	266.2	232.4	284.4	283.7	332.6	367.7	364.5	369.6	391.5
50°	412.8	339.5	265.6	199.2	261.2	263.7	302.0	344.6	344.6	348.9	372.1
52.5°	370.8	308.8	241.2	180.4	234.2	241.8	275.0	324.5	325.7	330.1	350.8
55°	332.6	276.8	223.6	166.0	202.3	218.6	248.6	303.8	306.3	310.6	329.5
57.5°	297.6	230.5	219.9	149.1	172.9	188.6	225.5	283.7	285.0	288.8	306.9
60°	259.9	166.6	201.7	130.9	147.2	159.1	204.2	259.9	264.3	266.8	282.5
62.5°	217.3	120.9	182.9	118.4	134.7	137.2	186.7	237.4	243.0	244.9	254.3
65°	154.8	101.4	155.3	107.8	121.5	122.2	167.8	214.3	219.2	222.4	229.3
67.5°	104.6	82.7	118.4	97.7	111.5	112.1	149.7	187.3	194.2	196.7	201.1
70°	72.7	55.1	87.7	87.0	100.2	101.4	130.3	162.9	169.1	171.0	173.5
72.5°	53.2	44.5	72.7	78.3	88.4	89.6	110.2	135.3	141.6	143.5	144.7
75°	40.7	47.0	58.8	68.3	75.2	75.7	90.2	110.2	114.6	115.9	116.5
77.5°	32.6	43.8	43.2	55.1	61.4	60.1	70.8	85.2	88.9	88.9	88.9
80°	24.5	34.5	32.6	39.5	45.1	43.8	50.7	60.8	62.0	63.2	62.7
82.5°	18.1	21.9	21.9	25.0	30.1	28.9	33.8	39.5	39.5	39.5	40.7
85°	11.3	12.5	10.0	13.2	16.9	16.3	18.8	21.3	21.9	21.9	20.6
87.5°	6.9	5.6	3.2	5.0	7.5	7.5	8.8	9.4	8.8	8.8	8.8
90°	15.1	10.5	5.8	10.5	15.1	16.3	25.7	38.1	44.3	39.3	29.5
92.5°	102.6	62.9	23.3	62.9	102.6	112.5	158.0	218.8	249.3	218.5	156.9
95°	200.9	128.4	55.9	128.4	200.9	219.0	388.9	615.5	728.8	650.3	493.4
97.5°	224.6	160.6	96.7	160.6	224.6	240.6	523.9	901.7	1090.5	1040.9	941.8
100°	244.1	186.1	128.1	186.1	244.1	258.6	573.0	992.2	1201.8	1205.4	1212.7
102.5°	263.2	209.1	155.0	209.1	263.2	276.7	595.6	1020.7	1233.3	1296.4	1422.8
105°	292.1	246.3	200.4	246.3	292.1	303.6	612.2	1023.9	1229.7	1371.3	1654.6
107.5°	332.5	289.7	247.0	289.7	332.5	343.2	615.4	978.4	1159.8	1357.4	1752.5
110°	355.7	317.0	278.4	317.0	355.7	365.3	610.7	937.9	1101.6	1322.5	1764.1



TEST NUMBER: P935886

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	382.9	346.1	309.3	346.1	382.9	392.1	610.9	902.7	1048.6	1274.6	1726.7
115°	423.8	389.9	355.9	389.9	423.8	432.3	616.5	862.3	985.1	1202.8	1638.3
117.5°	463.6	432.8	402.0	432.8	463.6	471.3	628.0	837.0	941.4	1137.9	1530.9
120°	486.7	457.8	428.7	457.8	486.7	494.0	637.3	828.4	923.9	1103.4	1462.6
122.5°	513.5	484.2	455.0	484.2	513.5	520.8	650.7	824.0	910.6	1072.2	1395.6
125°	548.5	521.8	495.2	521.8	548.5	555.2	668.7	820.2	896.0	1033.3	1308.0
127.5°	581.6	554.7	527.8	554.7	581.6	588.3	686.8	818.1	883.8	1001.7	1237.6
130°	603.2	574.2	545.3	574.2	603.2	610.5	700.0	819.4	879.1	984.1	1194.0
132.5°	621.3	592.3	563.3	592.3	621.3	628.6	710.7	820.2	875.0	968.9	1156.9
135°	642.9	616.5	590.1	616.5	642.9	649.5	722.4	819.4	868.0	946.7	1104.1
137.5°	669.8	643.6	617.5	643.6	669.8	676.3	739.8	824.5	866.8	933.3	1066.4
140°	688.5	664.4	640.3	664.4	688.5	694.4	750.6	825.4	862.7	920.2	1035.2
142.5°	702.2	680.0	657.7	680.0	702.2	707.8	759.4	828.3	862.7	913.3	1014.2
145°	723.3	704.0	684.5	704.0	723.3	728.1	771.1	828.4	856.9	898.2	980.8
147.5°	749.1	730.2	711.2	730.2	749.1	753.8	788.2	834.1	856.9	889.4	954.4
150°	762.9	745.9	728.8	745.9	762.9	767.2	797.1	837.0	856.9	884.4	939.2
152.5°	772.7	759.8	746.8	759.8	772.7	776.0	803.0	838.9	856.9	880.4	927.3
155°	792.8	783.3	773.6	783.3	792.8	795.2	815.8	843.2	856.9	875.6	912.9
157.5°	812.0	802.8	793.4	802.8	812.0	814.4	828.6	847.5	856.9	871.4	900.4
160°	821.4	814.1	806.8	814.1	821.4	823.1	834.4	849.5	856.9	869.4	894.2
162.5°	831.1	825.7	820.2	825.7	831.1	832.5	840.6	851.5	856.9	867.4	888.4
165°	844.6	839.7	834.8	839.7	844.6	845.8	849.6	854.5	856.9	864.4	879.5
167.5°	852.8	850.5	848.2	850.5	852.8	853.4	856.5	860.7	862.7	867.7	877.5
170°	861.6	859.3	856.9	859.3	861.6	862.2	862.4	862.6	862.7	867.7	877.5
172.5°	862.6	862.1	861.6	862.1	862.6	862.7	862.7	862.7	862.7	866.7	874.4
175°	868.0	868.0	868.0	868.0	868.0	868.0	866.2	863.9	862.7	865.2	870.1
177.5°	868.0	868.0	868.0	868.0	868.0	868.0	866.7	864.9	864.0	865.9	869.7
180°	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0



TEST NUMBER: P935886

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	638.9	637.1	639.5	632.7	639.5	637.1	638.9	643.3	639.5	642.0	644.6
5°	560.6	557.5	547.5	539.3	547.5	557.5	560.6	573.8	580.0	591.3	606.4
7.5°	501.1	498.6	496.1	491.1	496.1	498.6	501.1	504.8	511.2	521.2	532.5
10°	487.9	488.6	492.3	491.8	492.3	488.6	487.9	486.7	484.8	486.7	493.6
12.5°	521.8	527.4	548.1	546.9	548.1	527.4	521.8	496.7	479.8	476.7	477.9
15°	560.6	562.5	566.8	567.5	566.8	562.5	560.6	550.6	499.9	477.9	471.0
17.5°	564.4	565.0	568.2	568.2	568.2	565.0	564.4	560.0	543.1	513.6	474.8
20°	561.2	562.5	568.8	570.0	568.8	562.5	561.2	555.6	546.2	535.6	506.1
22.5°	560.0	562.5	567.5	566.8	567.5	562.5	560.0	551.2	543.1	535.6	523.7
25°	553.8	553.8	554.3	555.0	554.3	553.8	553.8	546.9	530.5	528.6	521.8
27.5°	540.6	541.8	545.5	545.0	545.5	541.8	540.6	538.1	520.5	518.7	513.6
30°	528.6	527.4	524.3	521.8	524.3	527.4	528.6	524.9	507.3	502.4	503.6
32.5°	508.7	505.5	502.4	500.5	502.4	505.5	508.7	507.3	494.2	487.4	488.6
35°	484.8	485.5	484.8	483.0	484.8	485.5	484.8	486.1	477.9	471.7	471.0
37.5°	467.9	469.1	468.5	466.1	468.5	469.1	467.9	466.6	455.4	453.6	454.8
40°	450.4	451.0	450.4	448.5	450.4	451.0	450.4	447.9	432.3	432.8	437.2
42.5°	433.5	432.8	430.9	429.7	430.9	432.8	433.5	429.7	409.7	407.8	415.9
45°	414.0	414.7	410.9	409.0	410.9	414.7	414.0	411.5	390.9	385.8	391.5
47.5°	394.6	394.6	391.5	389.6	391.5	394.6	394.6	391.5	369.6	364.5	367.7
50°	374.0	373.3	368.9	368.3	368.9	373.3	374.0	372.1	348.9	344.6	344.6
52.5°	350.2	350.2	350.8	352.0	350.8	350.2	350.2	350.8	330.1	325.7	324.5
55°	329.5	330.1	334.5	335.8	334.5	330.1	329.5	329.5	310.6	306.3	303.8
57.5°	308.2	308.2	311.3	311.3	311.3	308.2	308.2	306.9	288.8	285.0	283.7
60°	283.7	285.0	287.5	286.9	287.5	285.0	283.7	282.5	266.8	264.3	259.9
62.5°	258.1	259.4	259.9	258.7	259.9	259.4	258.1	254.3	244.9	243.0	237.4
65°	231.2	232.4	233.0	231.7	233.0	232.4	231.2	229.3	222.4	219.2	214.3
67.5°	203.6	203.0	202.3	204.8	202.3	203.0	203.6	201.1	196.7	194.2	187.3
70°	175.4	175.4	174.8	176.1	174.8	175.4	175.4	173.5	171.0	169.1	162.9
72.5°	145.3	144.7	147.2	145.3	147.2	144.7	145.3	144.7	143.5	141.6	135.3
75°	115.9	117.1	115.9	117.8	115.9	117.1	115.9	116.5	115.9	114.6	110.2
77.5°	88.4	89.6	88.4	88.4	88.4	89.6	88.4	88.9	88.9	88.9	85.2
80°	62.7	62.0	62.0	61.4	62.0	62.0	62.7	62.7	63.2	62.0	60.8
82.5°	40.1	39.5	39.5	40.7	39.5	39.5	40.1	40.7	39.5	39.5	39.5
85°	21.9	22.5	21.3	21.3	21.3	22.5	21.9	20.6	21.9	21.9	21.3
87.5°	8.1	7.5	7.5	7.5	7.5	7.5	8.1	8.8	8.8	8.8	9.4
90°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	29.5	39.3	44.3	38.1
92.5°	110.7	106.3	88.6	71.1	88.6	106.3	110.7	156.9	218.5	249.3	218.8
95°	375.7	362.4	309.1	255.7	309.1	362.4	375.7	493.4	650.3	728.8	615.5
97.5°	867.4	842.0	740.6	639.0	740.6	842.0	867.4	941.8	1040.9	1090.5	901.7
100°	1218.1	1187.9	1067.0	946.0	1067.0	1187.9	1218.1	1212.7	1205.4	1201.8	992.2
102.5°	1517.6	1491.7	1388.1	1284.5	1388.1	1491.7	1517.6	1422.8	1296.4	1233.3	1020.7
105°	1867.1	1853.1	1797.5	1741.8	1797.5	1853.1	1867.1	1654.6	1371.3	1229.7	1023.9
107.5°	2048.8	2052.2	2065.6	2079.1	2065.6	2052.2	2048.8	1752.5	1357.4	1159.8	978.4
110°	2095.4	2109.9	2167.9	2225.9	2167.9	2109.9	2095.4	1764.1	1322.5	1101.6	937.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2065.7	2088.0	2177.1	2266.1	2177.1	2088.0	2065.7	1726.7	1274.6	1048.6	902.7
115°	1964.9	1995.9	2119.3	2242.8	2119.3	1995.9	1964.9	1638.3	1202.8	985.1	862.3
117.5°	1825.7	1860.0	1996.9	2133.8	1996.9	1860.0	1825.7	1530.9	1137.9	941.4	837.0
120°	1731.9	1765.2	1898.3	2031.4	1898.3	1765.2	1731.9	1462.6	1103.4	923.9	828.4
122.5°	1638.1	1670.9	1802.2	1933.5	1802.2	1670.9	1638.1	1395.6	1072.2	910.6	824.0
125°	1514.0	1544.3	1665.1	1786.1	1665.1	1544.3	1514.0	1308.0	1033.3	896.0	820.2
127.5°	1414.4	1439.9	1541.9	1643.9	1541.9	1439.9	1414.4	1237.6	1001.7	883.8	818.1
130°	1351.5	1375.0	1469.3	1563.5	1469.3	1375.0	1351.5	1194.0	984.1	879.1	819.4
132.5°	1297.9	1319.0	1403.3	1487.8	1403.3	1319.0	1297.9	1156.9	968.9	875.0	820.2
135°	1222.1	1240.4	1313.1	1385.9	1313.1	1240.4	1222.1	1104.1	946.7	868.0	819.4
137.5°	1166.3	1181.1	1240.7	1300.2	1240.7	1181.1	1166.3	1066.4	933.3	866.8	824.5
140°	1121.4	1135.3	1190.9	1246.6	1190.9	1135.3	1121.4	1035.2	920.2	862.7	825.4
142.5°	1090.0	1101.9	1149.8	1197.7	1149.8	1101.9	1090.0	1014.2	913.3	862.7	828.3
145°	1042.7	1051.8	1088.1	1124.3	1088.1	1051.8	1042.7	980.8	898.2	856.9	828.4
147.5°	1003.1	1010.6	1040.7	1070.7	1040.7	1010.6	1003.1	954.4	889.4	856.9	834.1
150°	980.4	986.5	1010.9	1035.2	1010.9	986.5	980.4	939.2	884.4	856.9	837.0
152.5°	962.4	967.0	985.4	1003.7	985.4	967.0	962.4	927.3	880.4	856.9	838.9
155°	940.8	943.9	956.0	968.2	956.0	943.9	940.8	912.9	875.6	856.9	843.2
157.5°	922.1	924.3	932.8	941.4	932.8	924.3	922.1	900.4	871.4	856.9	847.5
160°	912.8	914.0	919.0	923.9	919.0	914.0	912.8	894.2	869.4	856.9	849.5
162.5°	904.1	905.2	909.9	914.6	909.9	905.2	904.1	888.4	867.4	856.9	851.5
165°	890.7	891.9	896.8	901.8	896.8	891.9	890.7	879.5	864.4	856.9	854.5
167.5°	884.9	885.4	887.5	889.5	887.5	885.4	884.9	877.5	867.7	862.7	860.7
170°	884.9	884.9	884.9	884.9	884.9	884.9	884.9	877.5	867.7	862.7	862.6
172.5°	880.2	879.7	878.0	876.2	878.0	879.7	880.2	874.4	866.7	862.7	862.7
175°	873.9	873.9	873.9	873.9	873.9	873.9	873.9	870.1	865.2	862.7	863.9
177.5°	872.6	872.1	870.0	868.0	870.0	872.1	872.6	869.7	865.9	864.0	864.9
180°	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0



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CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	662.1	662.1	662.1	662.1	662.1
2.5°	654.0	657.1	658.9	661.5	667.7
5°	628.9	640.8	644.6	654.0	665.2
7.5°	573.8	610.1	620.1	642.7	660.2
10°	520.5	556.9	574.4	627.6	654.0
12.5°	493.6	514.9	526.8	601.3	645.2
15°	476.7	491.8	500.5	566.3	635.1
17.5°	463.5	474.2	480.4	531.8	621.4
20°	455.4	460.4	466.1	506.8	605.7
22.5°	449.7	446.6	451.0	489.2	584.4
25°	446.0	434.1	439.1	475.4	559.4
27.5°	449.2	422.8	424.7	462.9	533.0
30°	449.7	409.0	409.7	449.7	503.6
32.5°	445.3	394.6	395.3	433.5	470.5
35°	434.7	377.7	377.1	414.7	425.3
37.5°	420.3	359.6	359.6	394.0	375.8
40°	402.7	341.4	343.2	367.1	331.9
42.5°	381.4	321.9	324.5	331.4	299.4
45°	358.3	303.2	305.0	280.0	274.3
47.5°	332.6	283.7	284.4	232.4	266.2
50°	302.0	263.7	261.2	199.2	265.6
52.5°	275.0	241.8	234.2	180.4	241.2
55°	248.6	218.6	202.3	166.0	223.6
57.5°	225.5	188.6	172.9	149.1	219.9
60°	204.2	159.1	147.2	130.9	201.7
62.5°	186.7	137.2	134.7	118.4	182.9
65°	167.8	122.2	121.5	107.8	155.3
67.5°	149.7	112.1	111.5	97.7	118.4
70°	130.3	101.4	100.2	87.0	87.7
72.5°	110.2	89.6	88.4	78.3	72.7
75°	90.2	75.7	75.2	68.3	58.8
77.5°	70.8	60.1	61.4	55.1	43.2
80°	50.7	43.8	45.1	39.5	32.6
82.5°	33.8	28.9	30.1	25.0	21.9
85°	18.8	16.3	16.9	13.2	10.0
87.5°	8.8	7.5	7.5	5.0	3.2
90°	25.7	16.3	15.1	10.5	5.8
92.5°	158.0	112.5	102.6	62.9	23.3
95°	388.9	219.0	200.9	128.4	55.9
97.5°	523.9	240.6	224.6	160.6	96.7
100°	573.0	258.6	244.1	186.1	128.1
102.5°	595.6	276.7	263.2	209.1	155.0
105°	612.2	303.6	292.1	246.3	200.4
107.5°	615.4	343.2	332.5	289.7	247.0
110°	610.7	365.3	355.7	317.0	278.4



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CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	610.9	392.1	382.9	346.1	309.3
115°	616.5	432.3	423.8	389.9	355.9
117.5°	628.0	471.3	463.6	432.8	402.0
120°	637.3	494.0	486.7	457.8	428.7
122.5°	650.7	520.8	513.5	484.2	455.0
125°	668.7	555.2	548.5	521.8	495.2
127.5°	686.8	588.3	581.6	554.7	527.8
130°	700.0	610.5	603.2	574.2	545.3
132.5°	710.7	628.6	621.3	592.3	563.3
135°	722.4	649.5	642.9	616.5	590.1
137.5°	739.8	676.3	669.8	643.6	617.5
140°	750.6	694.4	688.5	664.4	640.3
142.5°	759.4	707.8	702.2	680.0	657.7
145°	771.1	728.1	723.3	704.0	684.5
147.5°	788.2	753.8	749.1	730.2	711.2
150°	797.1	767.2	762.9	745.9	728.8
152.5°	803.0	776.0	772.7	759.8	746.8
155°	815.8	795.2	792.8	783.3	773.6
157.5°	828.6	814.4	812.0	802.8	793.4
160°	834.4	823.1	821.4	814.1	806.8
162.5°	840.6	832.5	831.1	825.7	820.2
165°	849.6	845.8	844.6	839.7	834.8
167.5°	856.5	853.4	852.8	850.5	848.2
170°	862.4	862.2	861.6	859.3	856.9
172.5°	862.7	862.7	862.6	862.1	861.6
175°	866.2	868.0	868.0	868.0	868.0
177.5°	866.7	868.0	868.0	868.0	868.0
180°	868.0	868.0	868.0	868.0	868.0



TEST NUMBER: P935886  
 CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-5000K

**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	7.89	8.56	9.05	9.70	11.31	10.69	11.35	11.85	12.50	14.10
	3H	8.35	8.95	9.52	10.10	11.72	12.01	12.60	13.17	13.76	15.38
	4H	8.54	9.10	9.71	10.25	11.88	12.44	13.00	13.61	14.15	15.78
	6H	8.64	9.16	9.82	10.32	11.95	12.70	13.22	13.88	14.38	16.01
	8H	8.64	9.13	9.82	10.30	11.93	12.77	13.26	13.95	14.43	16.06
	12H	8.60	9.07	9.79	10.23	11.89	12.80	13.26	13.98	14.43	16.08
4H	2H	8.89	9.46	10.07	10.61	12.23	11.07	11.64	12.26	12.79	14.42
	3H	9.90	10.37	11.08	11.55	13.18	12.55	13.02	13.74	14.20	15.84
	4H	10.17	10.60	11.35	11.77	13.42	13.06	13.50	14.25	14.66	16.32
	6H	10.28	10.65	11.47	11.84	13.48	13.41	13.78	14.60	14.97	16.61
	8H	10.28	10.63	11.47	11.81	13.47	13.51	13.85	14.70	15.03	16.70
	12H	10.24	10.55	11.44	11.74	13.41	13.55	13.86	14.76	15.05	16.72
8H	4H	10.60	10.95	11.79	12.12	13.79	13.17	13.52	14.36	14.70	16.36
	6H	10.85	11.14	12.06	12.36	14.02	13.59	13.88	14.80	15.10	16.76
	8H	10.89	11.14	12.11	12.34	14.02	13.74	13.99	14.95	15.19	16.87
	12H	10.87	11.09	12.09	12.28	13.99	13.82	14.04	15.04	15.24	16.95
12H	4H	10.59	10.91	11.80	12.10	13.77	13.13	13.44	14.33	14.63	16.30
	6H	10.91	11.16	12.12	12.36	14.04	13.59	13.84	14.80	15.04	16.72
	8H	10.97	11.19	12.18	12.38	14.09	13.74	13.96	14.95	15.15	16.86