

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: P934390

Luminaire Tested: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

**Test Information**

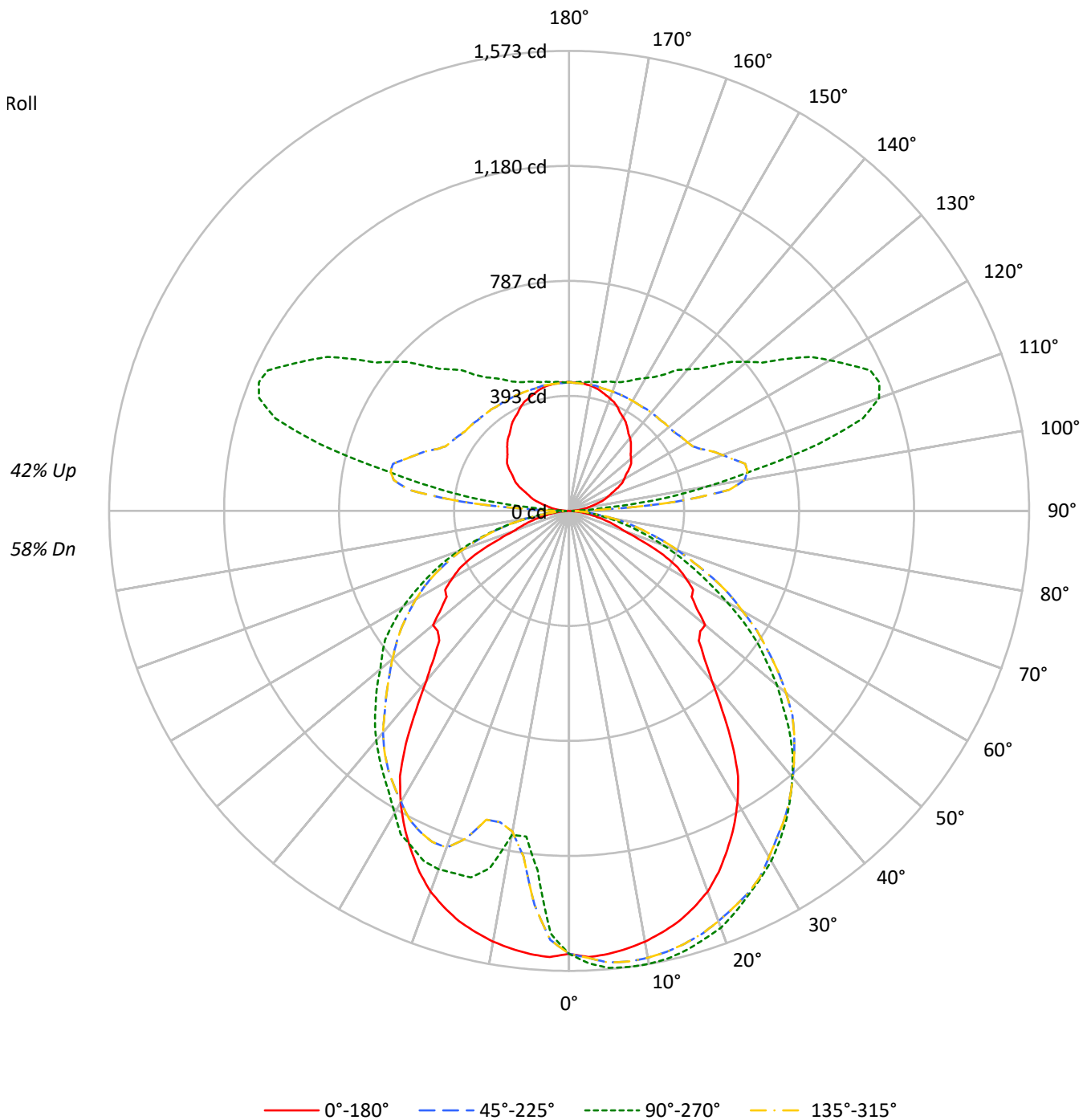
Test Method: LM-79-2019  
Report Number: P934390  
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6779.5 lumens  
Efficiency: N/A  
Efficacy: 124.2 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°	9367	9367	9367	9367
5°	9433	9455	9433	7435
10°	9367	9314	9367	6659
15°	9262	9112	9262	7609
20°	9064	8873	9064	7625
25°	8664	8524	8664	7463
30°	8148	8235	8148	7109
35°	7261	7869	7261	6719
40°	6046	7438	6046	6424
45°	5399	6933	5399	6085
50°	5732	6332	5732	5745
55°	5387	5683	5387	5548
60°	5547	4827	5547	5082
65°	5021	3990	5021	4460
70°	3468	3180	3468	3738
75°	3031	2351	3031	2815
80°	2425	1554	2425	1692
85°	1365	823	1365	700

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8280 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.7	2.0
10°-20°	388.1	5.7
20°-30°	599.9	8.8
30°-40°	716.1	10.6
40°-50°	720.3	10.6
50°-60°	626.8	9.2
60°-70°	444.4	6.6
70°-80°	235.1	3.5
80°-90°	60.2	0.9
90°-100°	214.4	3.2
100°-110°	563.8	8.3
110°-120°	584.6	8.6
120°-130°	468.9	6.9
130°-140°	367.9	5.4
140°-150°	282.4	4.2
150°-160°	203.4	3.0
160°-170°	124.4	1.8
170°-180°	42.0	0.6
0°-30°	1124.6	16.6
0°-40°	1840.8	27.2
0°-60°	3187.9	47.0
0°-90°	3927.6	57.9
90°-120°	1362.8	20.1
90°-150°	2482.0	36.6
90°-180°	2852.0	42.1
0°-180°	6779.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1514	1514	1514	1514	1514	
5°	1521	1569	1521	1233	1521	144
15°	1453	1554	1453	1298	1453	409
25°	1279	1450	1279	1269	1279	587
35°	973	1294	973	1104	973	602
45°	627	1066	627	935	627	503
55°	511	786	511	768	511	470
65°	355	474	355	530	355	340
75°	135	225	135	269	135	142
85°	23	57	23	49	23	31
90°	3	11	3	11	3	3
95°	28	130	28	130	28	31
105°	102	883	102	883	102	108
115°	180	1137	180	1137	180	178
125°	251	905	251	905	251	223
135°	299	702	299	702	299	231
145°	347	570	347	570	347	217
155°	392	491	392	491	392	180
165°	423	457	423	457	423	119
175°	440	443	440	443	440	42
180°	440	440	440	440	440	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1527.0	1527.0	1535.6	1538.5	1538.5	1534.2	1529.9	1534.2	1547.1	1551.4	1550.0
5°	1521.3	1532.8	1548.5	1551.4	1554.3	1552.8	1550.0	1552.8	1567.2	1570.0	1571.5
7.5°	1509.9	1531.3	1551.4	1555.7	1560.0	1555.7	1554.3	1557.1	1571.5	1574.3	1574.3
10°	1495.5	1525.6	1548.5	1551.4	1555.7	1551.4	1551.4	1557.1	1571.5	1574.3	1575.8
12.5°	1475.5	1517.0	1538.5	1541.4	1547.1	1545.7	1544.2	1550.0	1564.3	1567.2	1567.2
15°	1452.6	1501.3	1521.3	1524.2	1534.2	1531.3	1531.3	1537.1	1552.8	1557.1	1555.7
17.5°	1421.0	1481.2	1504.1	1508.4	1515.6	1514.2	1515.6	1521.3	1535.6	1538.5	1539.9
20°	1385.2	1454.0	1481.2	1485.5	1492.7	1492.7	1492.7	1499.8	1514.2	1519.9	1519.9
22.5°	1336.5	1425.3	1454.0	1456.9	1465.4	1465.4	1468.3	1478.3	1491.2	1492.7	1492.7
25°	1279.2	1393.8	1418.2	1426.8	1435.4	1439.7	1444.0	1449.7	1454.0	1452.6	1454.0
27.5°	1219.1	1353.7	1385.2	1391.0	1402.4	1406.7	1412.4	1413.9	1415.3	1419.6	1416.7
30°	1151.7	1297.8	1345.1	1350.8	1369.5	1372.3	1366.6	1369.5	1376.6	1379.5	1382.4
32.5°	1075.8	1214.8	1303.6	1316.5	1333.7	1325.1	1323.6	1327.9	1339.4	1339.4	1342.3
35°	972.7	1150.3	1264.9	1276.4	1289.2	1279.2	1285.0	1286.4	1293.5	1297.8	1296.4
37.5°	859.5	1094.4	1224.8	1233.4	1243.4	1230.5	1239.1	1243.4	1249.1	1246.3	1246.3
40°	759.2	1007.0	1177.5	1183.2	1191.8	1181.8	1190.4	1193.3	1196.1	1193.3	1191.8
42.5°	684.7	911.1	1127.4	1134.5	1128.8	1136.0	1138.8	1144.6	1140.3	1134.5	1134.5
45°	627.4	885.3	1072.9	1081.5	1072.9	1084.4	1088.7	1088.7	1075.8	1072.9	1071.5
47.5°	608.8	833.7	1018.5	1018.5	1014.2	1028.5	1035.7	1025.7	1012.8	1008.5	1008.5
50°	607.4	776.4	944.0	938.3	958.3	975.5	968.4	958.3	948.3	932.6	932.6
52.5°	551.5	706.2	848.0	869.5	901.0	911.1	899.6	889.6	872.4	865.2	859.5
55°	511.4	633.2	760.7	803.6	836.6	849.5	828.0	818.0	792.2	787.9	785.0
57.5°	502.8	527.2	680.4	734.9	775.0	773.6	760.7	742.0	720.5	716.2	714.8
60°	461.3	381.0	594.5	658.9	700.5	696.2	684.7	667.5	647.5	644.6	641.8
62.5°	418.3	276.5	497.1	570.1	628.9	627.4	617.4	591.6	577.3	570.1	564.4
65°	355.3	232.1	353.8	474.2	558.7	561.5	540.1	521.4	505.7	497.1	495.6
67.5°	270.7	189.1	239.2	395.4	491.3	488.5	461.3	452.7	432.6	428.3	419.7
70°	200.5	126.1	166.2	320.9	425.5	418.3	396.8	386.8	368.2	358.1	352.4
72.5°	166.2	101.7	121.8	249.3	358.1	349.5	330.9	319.4	303.7	295.1	289.4
75°	134.7	107.4	93.1	184.8	290.8	285.1	267.9	256.4	243.5	232.1	233.5
77.5°	98.8	100.3	74.5	136.1	230.6	222.0	212.0	197.7	192.0	180.5	180.5
80°	74.5	78.8	55.9	93.1	166.2	166.2	157.6	147.5	137.5	131.8	131.8
82.5°	50.1	50.1	41.5	58.7	113.2	108.9	103.1	100.3	94.5	91.7	91.7
85°	22.9	28.6	25.8	35.8	61.6	64.5	64.5	61.6	60.2	57.3	58.7
87.5°	7.2	12.9	15.8	20.1	31.5	32.9	34.4	34.4	34.4	35.8	35.8
90°	3.0	5.3	7.7	8.3	13.0	19.3	22.4	20.0	14.9	11.2	11.2
92.5°	11.8	31.9	52.0	57.0	80.1	111.0	126.3	110.7	79.5	56.1	53.9
95°	28.4	65.0	101.8	111.0	197.1	312.0	369.4	329.7	250.1	190.4	183.6
97.5°	49.0	81.5	113.8	122.0	265.6	457.1	552.8	527.6	477.3	439.6	426.7
100°	64.9	94.4	123.8	131.1	290.4	502.9	609.1	610.9	614.6	617.4	602.1
102.5°	78.5	106.0	133.4	140.3	301.9	517.3	625.0	657.0	721.1	769.2	756.1
105°	101.6	124.8	148.0	153.9	310.3	518.9	623.2	695.0	838.6	946.3	939.2
107.5°	125.2	146.9	168.5	173.9	311.9	495.8	587.8	687.9	888.2	1038.4	1040.1
110°	141.1	160.6	180.2	185.1	309.5	475.4	558.3	670.2	894.2	1062.1	1069.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	156.8	175.4	194.1	198.7	309.6	457.5	531.5	646.1	875.2	1047.0	1058.2
115°	180.4	197.6	214.8	219.1	312.5	437.0	499.3	609.7	830.4	995.9	1011.5
117.5°	203.7	219.4	234.9	238.8	318.3	424.2	477.1	576.7	775.9	925.3	942.7
120°	217.3	232.0	246.7	250.4	323.0	419.8	468.2	559.2	741.3	877.7	894.6
122.5°	230.6	245.4	260.2	264.0	329.8	417.5	461.5	543.4	707.4	830.3	846.9
125°	251.0	264.4	278.0	281.3	338.9	415.7	454.1	523.7	663.0	767.3	782.6
127.5°	267.5	281.2	294.8	298.2	348.1	414.7	447.9	507.7	627.1	716.8	729.7
130°	276.4	291.1	305.8	309.4	354.8	415.2	445.5	498.7	605.2	685.0	697.0
132.5°	285.5	300.3	315.0	318.6	360.2	415.7	443.5	491.2	586.4	657.8	668.5
135°	299.1	312.5	325.8	329.2	366.1	415.3	440.0	479.9	559.6	619.4	628.7
137.5°	313.0	326.2	339.4	342.7	374.9	417.8	439.3	473.0	540.4	591.0	598.6
140°	324.5	336.7	348.9	351.9	380.4	418.3	437.3	466.4	524.7	568.3	575.4
142.5°	333.3	344.6	355.8	358.7	384.9	419.8	437.3	462.9	514.0	552.4	558.5
145°	347.0	356.8	366.6	369.1	390.9	419.8	434.3	455.2	497.1	528.5	533.1
147.5°	360.5	370.1	379.7	382.1	399.5	422.7	434.3	450.8	483.7	508.4	512.3
150°	369.4	378.1	386.7	388.9	404.1	424.2	434.3	448.3	476.1	496.9	499.9
152.5°	378.5	385.1	391.6	393.3	406.9	425.2	434.3	446.2	470.0	487.7	490.0
155°	392.1	397.0	401.8	403.0	413.4	427.4	434.3	443.8	462.7	476.8	478.4
157.5°	402.2	406.8	411.6	412.8	419.9	429.6	434.3	441.7	456.4	467.4	468.4
160°	408.9	412.6	416.2	417.1	422.9	430.5	434.3	440.6	453.2	462.7	463.3
162.5°	415.7	418.5	421.3	421.9	426.0	431.6	434.3	439.7	450.3	458.2	458.8
165°	423.1	425.5	428.0	428.7	430.6	433.1	434.3	438.2	445.7	451.4	452.1
167.5°	429.8	431.0	432.2	432.5	434.1	436.2	437.3	439.8	444.7	448.5	448.8
170°	434.3	435.5	436.7	437.0	437.1	437.2	437.3	439.8	444.7	448.5	448.5
172.5°	436.7	437.0	437.2	437.3	437.3	437.3	437.3	439.2	443.1	446.1	445.9
175°	440.0	440.0	440.0	440.0	439.1	437.9	437.3	438.5	441.0	442.8	442.8
177.5°	440.0	440.0	440.0	440.0	439.3	438.3	437.9	438.8	440.8	442.3	442.0
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1552.8	1548.5	1552.8	1550.0	1551.4	1547.1	1534.2	1529.9	1534.2	1538.5	1538.5
5°	1571.5	1568.6	1571.5	1571.5	1570.0	1567.2	1552.8	1550.0	1552.8	1554.3	1551.4
7.5°	1577.2	1572.9	1577.2	1574.3	1574.3	1571.5	1557.1	1554.3	1555.7	1560.0	1555.7
10°	1577.2	1572.9	1577.2	1575.8	1574.3	1571.5	1557.1	1551.4	1551.4	1555.7	1551.4
12.5°	1570.0	1567.2	1570.0	1567.2	1567.2	1564.3	1550.0	1544.2	1545.7	1547.1	1541.4
15°	1558.6	1554.3	1558.6	1555.7	1557.1	1552.8	1537.1	1531.3	1531.3	1534.2	1524.2
17.5°	1541.4	1535.6	1541.4	1539.9	1538.5	1535.6	1521.3	1515.6	1514.2	1515.6	1508.4
20°	1521.3	1517.0	1521.3	1519.9	1519.9	1514.2	1499.8	1492.7	1492.7	1492.7	1485.5
22.5°	1489.8	1485.5	1489.8	1492.7	1492.7	1491.2	1478.3	1468.3	1465.4	1465.4	1456.9
25°	1454.0	1449.7	1454.0	1454.0	1452.6	1454.0	1449.7	1444.0	1439.7	1435.4	1426.8
27.5°	1419.6	1416.7	1419.6	1416.7	1419.6	1415.3	1413.9	1412.4	1406.7	1402.4	1391.0
30°	1385.2	1382.4	1385.2	1382.4	1379.5	1376.6	1369.5	1366.6	1372.3	1369.5	1350.8
32.5°	1342.3	1339.4	1342.3	1342.3	1339.4	1339.4	1327.9	1323.6	1325.1	1333.7	1316.5
35°	1297.8	1293.5	1297.8	1296.4	1297.8	1293.5	1286.4	1285.0	1279.2	1289.2	1276.4
37.5°	1246.3	1242.0	1246.3	1246.3	1246.3	1249.1	1243.4	1239.1	1230.5	1243.4	1233.4
40°	1193.3	1187.5	1193.3	1191.8	1193.3	1196.1	1193.3	1190.4	1181.8	1191.8	1183.2
42.5°	1133.1	1131.7	1133.1	1134.5	1134.5	1140.3	1144.6	1138.8	1136.0	1128.8	1134.5
45°	1068.6	1065.8	1068.6	1071.5	1072.9	1075.8	1088.7	1088.7	1084.4	1072.9	1081.5
47.5°	999.9	992.7	999.9	1008.5	1008.5	1012.8	1025.7	1035.7	1028.5	1014.2	1018.5
50°	926.8	928.3	926.8	932.6	932.6	948.3	958.3	968.4	975.5	958.3	938.3
52.5°	855.2	853.8	855.2	859.5	865.2	872.4	889.6	899.6	911.1	901.0	869.5
55°	783.6	786.4	783.6	785.0	787.9	792.2	818.0	828.0	849.5	836.6	803.6
57.5°	712.0	707.7	712.0	714.8	716.2	720.5	742.0	760.7	773.6	775.0	734.9
60°	628.9	623.1	628.9	641.8	644.6	647.5	667.5	684.7	696.2	700.5	658.9
62.5°	555.8	545.8	555.8	564.4	570.1	577.3	591.6	617.4	627.4	628.9	570.1
65°	478.5	474.2	478.5	495.6	497.1	505.7	521.4	540.1	561.5	558.7	474.2
67.5°	408.3	408.3	408.3	419.7	428.3	432.6	452.7	461.3	488.5	491.3	395.4
70°	343.8	342.4	343.8	352.4	358.1	368.2	386.8	396.8	418.3	425.5	320.9
72.5°	282.2	280.8	282.2	289.4	295.1	303.7	319.4	330.9	349.5	358.1	249.3
75°	227.8	224.9	227.8	233.5	232.1	243.5	256.4	267.9	285.1	290.8	184.8
77.5°	174.8	174.8	174.8	180.5	180.5	192.0	197.7	212.0	222.0	230.6	136.1
80°	130.4	128.9	130.4	131.8	131.8	137.5	147.5	157.6	166.2	166.2	93.1
82.5°	91.7	88.8	91.7	91.7	91.7	94.5	100.3	103.1	108.9	113.2	58.7
85°	57.3	57.3	57.3	58.7	57.3	60.2	61.6	64.5	64.5	61.6	35.8
87.5°	37.2	35.8	37.2	35.8	35.8	34.4	34.4	34.4	32.9	31.5	20.1
90°	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.4	19.3	13.0	8.3
92.5°	44.9	36.0	44.9	53.9	56.1	79.5	110.7	126.3	111.0	80.1	57.0
95°	156.6	129.6	156.6	183.6	190.4	250.1	329.7	369.4	312.0	197.1	111.0
97.5°	375.3	323.9	375.3	426.7	439.6	477.3	527.6	552.8	457.1	265.6	122.0
100°	540.8	479.5	540.8	602.1	617.4	614.6	610.9	609.1	502.9	290.4	131.1
102.5°	703.5	651.0	703.5	756.1	769.2	721.1	657.0	625.0	517.3	301.9	140.3
105°	911.1	882.8	911.1	939.2	946.3	838.6	695.0	623.2	518.9	310.3	153.9
107.5°	1046.9	1053.7	1046.9	1040.1	1038.4	888.2	687.9	587.8	495.8	311.9	173.9
110°	1098.7	1128.1	1098.7	1069.4	1062.1	894.2	670.2	558.3	475.4	309.5	185.1





TEST NUMBER: P934390

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1103.4	1148.5	1103.4	1058.2	1047.0	875.2	646.1	531.5	457.5	309.6	198.7
115°	1074.1	1136.7	1074.1	1011.5	995.9	830.4	609.7	499.3	437.0	312.5	219.1
117.5°	1012.1	1081.5	1012.1	942.7	925.3	775.9	576.7	477.1	424.2	318.3	238.8
120°	962.1	1029.6	962.1	894.6	877.7	741.3	559.2	468.2	419.8	323.0	250.4
122.5°	913.5	979.9	913.5	846.9	830.3	707.4	543.4	461.5	417.5	329.8	264.0
125°	843.9	905.2	843.9	782.6	767.3	663.0	523.7	454.1	415.7	338.9	281.3
127.5°	781.5	833.2	781.5	729.7	716.8	627.1	507.7	447.9	414.7	348.1	298.2
130°	744.7	792.5	744.7	697.0	685.0	605.2	498.7	445.5	415.2	354.8	309.4
132.5°	711.3	754.1	711.3	668.5	657.8	586.4	491.2	443.5	415.7	360.2	318.6
135°	665.5	702.4	665.5	628.7	619.4	559.6	479.9	440.0	415.3	366.1	329.2
137.5°	628.9	659.0	628.9	598.6	591.0	540.4	473.0	439.3	417.8	374.9	342.7
140°	603.6	631.8	603.6	575.4	568.3	524.7	466.4	437.3	418.3	380.4	351.9
142.5°	582.7	607.0	582.7	558.5	552.4	514.0	462.9	437.3	419.8	384.9	358.7
145°	551.5	569.8	551.5	533.1	528.5	497.1	455.2	434.3	419.8	390.9	369.1
147.5°	527.4	542.6	527.4	512.3	508.4	483.7	450.8	434.3	422.7	399.5	382.1
150°	512.4	524.7	512.4	499.9	496.9	476.1	448.3	434.3	424.2	404.1	388.9
152.5°	499.4	508.7	499.4	490.0	487.7	470.0	446.2	434.3	425.2	406.9	393.3
155°	484.6	490.7	484.6	478.4	476.8	462.7	443.8	434.3	427.4	413.4	403.0
157.5°	472.8	477.1	472.8	468.4	467.4	456.4	441.7	434.3	429.6	419.9	412.8
160°	465.8	468.2	465.8	463.3	462.7	453.2	440.6	434.3	430.5	422.9	417.1
162.5°	461.2	463.6	461.2	458.8	458.2	450.3	439.7	434.3	431.6	426.0	421.9
165°	454.6	457.1	454.6	452.1	451.4	445.7	438.2	434.3	433.1	430.6	428.7
167.5°	449.8	450.9	449.8	448.8	448.5	444.7	439.8	437.3	436.2	434.1	432.5
170°	448.5	448.5	448.5	448.5	448.5	444.7	439.8	437.3	437.2	437.1	437.0
172.5°	444.9	444.1	444.9	445.9	446.1	443.1	439.2	437.3	437.3	437.3	437.3
175°	442.8	442.8	442.8	442.8	442.8	441.0	438.5	437.3	437.9	439.1	440.0
177.5°	441.0	440.0	441.0	442.0	442.3	440.8	438.8	437.9	438.3	439.3	440.0
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0



TEST NUMBER: P934390  
 CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1535.6	1527.0	1527.0	1512.7	1507.0	1502.7	1495.5	1474.0	1468.3	1462.6	1471.2
5°	1548.5	1532.8	1521.3	1495.5	1474.0	1465.4	1438.2	1386.7	1352.3	1326.5	1312.2
7.5°	1551.4	1531.3	1509.9	1469.7	1418.2	1395.3	1312.2	1217.6	1191.8	1168.9	1154.6
10°	1548.5	1525.6	1495.5	1435.4	1313.6	1273.5	1190.4	1128.8	1113.1	1108.8	1113.1
12.5°	1538.5	1517.0	1475.5	1375.2	1204.7	1177.5	1128.8	1093.0	1090.1	1097.3	1136.0
15°	1521.3	1501.3	1452.6	1295.0	1144.6	1124.5	1090.1	1077.2	1093.0	1143.1	1259.2
17.5°	1504.1	1481.2	1421.0	1216.2	1098.7	1084.4	1060.0	1085.8	1174.6	1242.0	1280.7
20°	1481.2	1454.0	1385.2	1158.9	1065.8	1052.9	1041.4	1157.5	1224.8	1249.1	1270.6
22.5°	1454.0	1425.3	1336.5	1118.8	1031.4	1021.4	1028.5	1197.6	1224.8	1242.0	1260.6
25°	1418.2	1393.8	1279.2	1087.3	1004.2	992.7	1019.9	1193.3	1209.0	1213.3	1250.6
27.5°	1385.2	1353.7	1219.1	1058.6	971.2	966.9	1027.1	1174.6	1186.1	1190.4	1230.5
30°	1345.1	1297.8	1151.7	1028.5	936.9	935.4	1028.5	1151.7	1148.9	1160.3	1200.4
32.5°	1303.6	1214.8	1075.8	991.3	903.9	902.5	1018.5	1117.4	1114.5	1130.2	1160.3
35°	1264.9	1150.3	972.7	948.3	862.4	863.8	994.2	1077.2	1078.7	1093.0	1111.6
37.5°	1224.8	1094.4	859.5	901.0	822.3	822.3	961.2	1040.0	1037.1	1041.4	1067.2
40°	1177.5	1007.0	759.2	839.4	785.0	780.7	921.1	999.9	989.9	988.4	1024.2
42.5°	1127.4	911.1	684.7	757.8	742.0	736.3	872.4	951.2	932.6	936.9	982.7
45°	1072.9	885.3	627.4	640.3	697.6	693.3	819.4	895.3	882.4	893.9	941.2
47.5°	1018.5	833.7	608.8	531.5	650.4	648.9	760.7	840.9	833.7	845.2	895.3
50°	944.0	776.4	607.4	455.5	597.4	603.1	690.5	787.9	787.9	797.9	850.9
52.5°	848.0	706.2	551.5	412.6	535.8	552.9	628.9	742.0	744.9	754.9	802.2
55°	760.7	633.2	511.4	379.6	462.7	499.9	568.7	694.8	700.5	710.5	753.5
57.5°	680.4	527.2	502.8	340.9	395.4	431.2	515.7	648.9	651.8	660.4	701.9
60°	594.5	381.0	461.3	299.4	336.6	363.9	467.0	594.5	604.5	610.2	646.1
62.5°	497.1	276.5	418.3	270.7	308.0	313.7	426.9	542.9	555.8	560.1	581.6
65°	353.8	232.1	355.3	246.4	277.9	279.3	383.9	489.9	501.4	508.5	524.3
67.5°	239.2	189.1	270.7	223.5	255.0	256.4	342.4	428.3	444.1	449.8	459.8
70°	166.2	126.1	200.5	199.1	229.2	232.1	298.0	372.4	386.8	391.1	396.8
72.5°	121.8	101.7	166.2	179.1	202.0	204.8	252.1	309.4	323.7	328.0	330.9
75°	93.1	107.4	134.7	156.1	171.9	173.3	206.3	252.1	262.1	265.0	266.4
77.5°	74.5	100.3	98.8	126.1	140.4	137.5	161.9	194.8	203.4	203.4	203.4
80°	55.9	78.8	74.5	90.2	103.1	100.3	116.0	139.0	141.8	144.7	143.2
82.5°	41.5	50.1	50.1	57.3	68.8	65.9	77.4	90.2	90.2	90.2	93.1
85°	25.8	28.6	22.9	30.1	38.7	37.2	43.0	48.7	50.1	50.1	47.3
87.5°	15.8	12.9	7.2	11.5	17.2	17.2	20.1	21.5	20.1	20.1	20.1
90°	7.7	5.3	3.0	5.3	7.7	8.3	13.0	19.3	22.4	20.0	14.9
92.5°	52.0	31.9	11.8	31.9	52.0	57.0	80.1	111.0	126.3	110.7	79.5
95°	101.8	65.0	28.4	65.0	101.8	111.0	197.1	312.0	369.4	329.7	250.1
97.5°	113.8	81.5	49.0	81.5	113.8	122.0	265.6	457.1	552.8	527.6	477.3
100°	123.8	94.4	64.9	94.4	123.8	131.1	290.4	502.9	609.1	610.9	614.6
102.5°	133.4	106.0	78.5	106.0	133.4	140.3	301.9	517.3	625.0	657.0	721.1
105°	148.0	124.8	101.6	124.8	148.0	153.9	310.3	518.9	623.2	695.0	838.6
107.5°	168.5	146.9	125.2	146.9	168.5	173.9	311.9	495.8	587.8	687.9	888.2
110°	180.2	160.6	141.1	160.6	180.2	185.1	309.5	475.4	558.3	670.2	894.2



TEST NUMBER: P934390

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.1	175.4	156.8	175.4	194.1	198.7	309.6	457.5	531.5	646.1	875.2
115°	214.8	197.6	180.4	197.6	214.8	219.1	312.5	437.0	499.3	609.7	830.4
117.5°	234.9	219.4	203.7	219.4	234.9	238.8	318.3	424.2	477.1	576.7	775.9
120°	246.7	232.0	217.3	232.0	246.7	250.4	323.0	419.8	468.2	559.2	741.3
122.5°	260.2	245.4	230.6	245.4	260.2	264.0	329.8	417.5	461.5	543.4	707.4
125°	278.0	264.4	251.0	264.4	278.0	281.3	338.9	415.7	454.1	523.7	663.0
127.5°	294.8	281.2	267.5	281.2	294.8	298.2	348.1	414.7	447.9	507.7	627.1
130°	305.8	291.1	276.4	291.1	305.8	309.4	354.8	415.2	445.5	498.7	605.2
132.5°	315.0	300.3	285.5	300.3	315.0	318.6	360.2	415.7	443.5	491.2	586.4
135°	325.8	312.5	299.1	312.5	325.8	329.2	366.1	415.3	440.0	479.9	559.6
137.5°	339.4	326.2	313.0	326.2	339.4	342.7	374.9	417.8	439.3	473.0	540.4
140°	348.9	336.7	324.5	336.7	348.9	351.9	380.4	418.3	437.3	466.4	524.7
142.5°	355.8	344.6	333.3	344.6	355.8	358.7	384.9	419.8	437.3	462.9	514.0
145°	366.6	356.8	347.0	356.8	366.6	369.1	390.9	419.8	434.3	455.2	497.1
147.5°	379.7	370.1	360.5	370.1	379.7	382.1	399.5	422.7	434.3	450.8	483.7
150°	386.7	378.1	369.4	378.1	386.7	388.9	404.1	424.2	434.3	448.3	476.1
152.5°	391.6	385.1	378.5	385.1	391.6	393.3	406.9	425.2	434.3	446.2	470.0
155°	401.8	397.0	392.1	397.0	401.8	403.0	413.4	427.4	434.3	443.8	462.7
157.5°	411.6	406.8	402.2	406.8	411.6	412.8	419.9	429.6	434.3	441.7	456.4
160°	416.2	412.6	408.9	412.6	416.2	417.1	422.9	430.5	434.3	440.6	453.2
162.5°	421.3	418.5	415.7	418.5	421.3	421.9	426.0	431.6	434.3	439.7	450.3
165°	428.0	425.5	423.1	425.5	428.0	428.7	430.6	433.1	434.3	438.2	445.7
167.5°	432.2	431.0	429.8	431.0	432.2	432.5	434.1	436.2	437.3	439.8	444.7
170°	436.7	435.5	434.3	435.5	436.7	437.0	437.1	437.2	437.3	439.8	444.7
172.5°	437.2	437.0	436.7	437.0	437.2	437.3	437.3	437.3	437.3	439.2	443.1
175°	440.0	440.0	440.0	440.0	440.0	440.0	439.1	437.9	437.3	438.5	441.0
177.5°	440.0	440.0	440.0	440.0	440.0	440.0	439.3	438.3	437.9	438.8	440.8
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0



TEST NUMBER: P934390

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1461.1	1456.9	1462.6	1446.8	1462.6	1456.9	1461.1	1471.2	1462.6	1468.3	1474.0
5°	1282.1	1274.9	1252.0	1233.4	1252.0	1274.9	1282.1	1312.2	1326.5	1352.3	1386.7
7.5°	1146.0	1140.3	1134.5	1123.1	1134.5	1140.3	1146.0	1154.6	1168.9	1191.8	1217.6
10°	1115.9	1117.4	1125.9	1124.5	1125.9	1117.4	1115.9	1113.1	1108.8	1113.1	1128.8
12.5°	1193.3	1206.2	1253.4	1250.6	1253.4	1206.2	1193.3	1136.0	1097.3	1090.1	1093.0
15°	1282.1	1286.4	1296.4	1297.8	1296.4	1286.4	1282.1	1259.2	1143.1	1093.0	1077.2
17.5°	1290.7	1292.1	1299.3	1299.3	1299.3	1292.1	1290.7	1280.7	1242.0	1174.6	1085.8
20°	1283.5	1286.4	1300.7	1303.6	1300.7	1286.4	1283.5	1270.6	1249.1	1224.8	1157.5
22.5°	1280.7	1286.4	1297.8	1296.4	1297.8	1286.4	1280.7	1260.6	1242.0	1224.8	1197.6
25°	1266.3	1266.3	1267.8	1269.2	1267.8	1266.3	1266.3	1250.6	1213.3	1209.0	1193.3
27.5°	1236.2	1239.1	1247.7	1246.3	1247.7	1239.1	1236.2	1230.5	1190.4	1186.1	1174.6
30°	1209.0	1206.2	1199.0	1193.3	1199.0	1206.2	1209.0	1200.4	1160.3	1148.9	1151.7
32.5°	1163.2	1156.0	1148.9	1144.6	1148.9	1156.0	1163.2	1160.3	1130.2	1114.5	1117.4
35°	1108.8	1110.2	1108.8	1104.5	1108.8	1110.2	1108.8	1111.6	1093.0	1078.7	1077.2
37.5°	1070.1	1072.9	1071.5	1065.8	1071.5	1072.9	1070.1	1067.2	1041.4	1037.1	1040.0
40°	1030.0	1031.4	1030.0	1025.7	1030.0	1031.4	1030.0	1024.2	988.4	989.9	999.9
42.5°	991.3	989.9	985.6	982.7	985.6	989.9	991.3	982.7	936.9	932.6	951.2
45°	946.9	948.3	939.7	935.4	939.7	948.3	946.9	941.2	893.9	882.4	895.3
47.5°	902.5	902.5	895.3	891.0	895.3	902.5	902.5	895.3	845.2	833.7	840.9
50°	855.2	853.8	843.7	842.3	843.7	853.8	855.2	850.9	797.9	787.9	787.9
52.5°	800.8	800.8	802.2	805.1	802.2	800.8	800.8	802.2	754.9	744.9	742.0
55°	753.5	754.9	765.0	767.8	765.0	754.9	753.5	753.5	710.5	700.5	694.8
57.5°	704.8	704.8	712.0	712.0	712.0	704.8	704.8	701.9	660.4	651.8	648.9
60°	648.9	651.8	657.5	656.1	657.5	651.8	648.9	646.1	610.2	604.5	594.5
62.5°	590.2	593.1	594.5	591.6	594.5	593.1	590.2	581.6	560.1	555.8	542.9
65°	528.6	531.5	532.9	530.0	532.9	531.5	528.6	524.3	508.5	501.4	489.9
67.5°	465.6	464.1	462.7	468.4	462.7	464.1	465.6	459.8	449.8	444.1	428.3
70°	401.1	401.1	399.7	402.5	399.7	401.1	401.1	396.8	391.1	386.8	372.4
72.5°	332.3	330.9	336.6	332.3	336.6	330.9	332.3	330.9	328.0	323.7	309.4
75°	265.0	267.9	265.0	269.3	265.0	267.9	265.0	266.4	265.0	262.1	252.1
77.5°	202.0	204.8	202.0	202.0	202.0	204.8	202.0	203.4	203.4	203.4	194.8
80°	143.2	141.8	141.8	140.4	141.8	141.8	143.2	143.2	144.7	141.8	139.0
82.5°	91.7	90.2	90.2	93.1	90.2	90.2	91.7	93.1	90.2	90.2	90.2
85°	50.1	51.6	48.7	48.7	48.7	51.6	50.1	47.3	50.1	50.1	48.7
87.5°	18.6	17.2	17.2	17.2	17.2	17.2	18.6	20.1	20.1	20.1	21.5
90°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.4	19.3
92.5°	56.1	53.9	44.9	36.0	44.9	53.9	56.1	79.5	110.7	126.3	111.0
95°	190.4	183.6	156.6	129.6	156.6	183.6	190.4	250.1	329.7	369.4	312.0
97.5°	439.6	426.7	375.3	323.9	375.3	426.7	439.6	477.3	527.6	552.8	457.1
100°	617.4	602.1	540.8	479.5	540.8	602.1	617.4	614.6	610.9	609.1	502.9
102.5°	769.2	756.1	703.5	651.0	703.5	756.1	769.2	721.1	657.0	625.0	517.3
105°	946.3	939.2	911.1	882.8	911.1	939.2	946.3	838.6	695.0	623.2	518.9
107.5°	1038.4	1040.1	1046.9	1053.7	1046.9	1040.1	1038.4	888.2	687.9	587.8	495.8
110°	1062.1	1069.4	1098.7	1128.1	1098.7	1069.4	1062.1	894.2	670.2	558.3	475.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1047.0	1058.2	1103.4	1148.5	1103.4	1058.2	1047.0	875.2	646.1	531.5	457.5
115°	995.9	1011.5	1074.1	1136.7	1074.1	1011.5	995.9	830.4	609.7	499.3	437.0
117.5°	925.3	942.7	1012.1	1081.5	1012.1	942.7	925.3	775.9	576.7	477.1	424.2
120°	877.7	894.6	962.1	1029.6	962.1	894.6	877.7	741.3	559.2	468.2	419.8
122.5°	830.3	846.9	913.5	979.9	913.5	846.9	830.3	707.4	543.4	461.5	417.5
125°	767.3	782.6	843.9	905.2	843.9	782.6	767.3	663.0	523.7	454.1	415.7
127.5°	716.8	729.7	781.5	833.2	781.5	729.7	716.8	627.1	507.7	447.9	414.7
130°	685.0	697.0	744.7	792.5	744.7	697.0	685.0	605.2	498.7	445.5	415.2
132.5°	657.8	668.5	711.3	754.1	711.3	668.5	657.8	586.4	491.2	443.5	415.7
135°	619.4	628.7	665.5	702.4	665.5	628.7	619.4	559.6	479.9	440.0	415.3
137.5°	591.0	598.6	628.9	659.0	628.9	598.6	591.0	540.4	473.0	439.3	417.8
140°	568.3	575.4	603.6	631.8	603.6	575.4	568.3	524.7	466.4	437.3	418.3
142.5°	552.4	558.5	582.7	607.0	582.7	558.5	552.4	514.0	462.9	437.3	419.8
145°	528.5	533.1	551.5	569.8	551.5	533.1	528.5	497.1	455.2	434.3	419.8
147.5°	508.4	512.3	527.4	542.6	527.4	512.3	508.4	483.7	450.8	434.3	422.7
150°	496.9	499.9	512.4	524.7	512.4	499.9	496.9	476.1	448.3	434.3	424.2
152.5°	487.7	490.0	499.4	508.7	499.4	490.0	487.7	470.0	446.2	434.3	425.2
155°	476.8	478.4	484.6	490.7	484.6	478.4	476.8	462.7	443.8	434.3	427.4
157.5°	467.4	468.4	472.8	477.1	472.8	468.4	467.4	456.4	441.7	434.3	429.6
160°	462.7	463.3	465.8	468.2	465.8	463.3	462.7	453.2	440.6	434.3	430.5
162.5°	458.2	458.8	461.2	463.6	461.2	458.8	458.2	450.3	439.7	434.3	431.6
165°	451.4	452.1	454.6	457.1	454.6	452.1	451.4	445.7	438.2	434.3	433.1
167.5°	448.5	448.8	449.8	450.9	449.8	448.8	448.5	444.7	439.8	437.3	436.2
170°	448.5	448.5	448.5	448.5	448.5	448.5	448.5	444.7	439.8	437.3	437.2
172.5°	446.1	445.9	444.9	444.1	444.9	445.9	446.1	443.1	439.2	437.3	437.3
175°	442.8	442.8	442.8	442.8	442.8	442.8	442.8	441.0	438.5	437.3	437.9
177.5°	442.3	442.0	441.0	440.0	441.0	442.0	442.3	440.8	438.8	437.9	438.3
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0



TEST NUMBER: P934390

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1495.5	1502.7	1507.0	1512.7	1527.0
5°	1438.2	1465.4	1474.0	1495.5	1521.3
7.5°	1312.2	1395.3	1418.2	1469.7	1509.9
10°	1190.4	1273.5	1313.6	1435.4	1495.5
12.5°	1128.8	1177.5	1204.7	1375.2	1475.5
15°	1090.1	1124.5	1144.6	1295.0	1452.6
17.5°	1060.0	1084.4	1098.7	1216.2	1421.0
20°	1041.4	1052.9	1065.8	1158.9	1385.2
22.5°	1028.5	1021.4	1031.4	1118.8	1336.5
25°	1019.9	992.7	1004.2	1087.3	1279.2
27.5°	1027.1	966.9	971.2	1058.6	1219.1
30°	1028.5	935.4	936.9	1028.5	1151.7
32.5°	1018.5	902.5	903.9	991.3	1075.8
35°	994.2	863.8	862.4	948.3	972.7
37.5°	961.2	822.3	822.3	901.0	859.5
40°	921.1	780.7	785.0	839.4	759.2
42.5°	872.4	736.3	742.0	757.8	684.7
45°	819.4	693.3	697.6	640.3	627.4
47.5°	760.7	648.9	650.4	531.5	608.8
50°	690.5	603.1	597.4	455.5	607.4
52.5°	628.9	552.9	535.8	412.6	551.5
55°	568.7	499.9	462.7	379.6	511.4
57.5°	515.7	431.2	395.4	340.9	502.8
60°	467.0	363.9	336.6	299.4	461.3
62.5°	426.9	313.7	308.0	270.7	418.3
65°	383.9	279.3	277.9	246.4	355.3
67.5°	342.4	256.4	255.0	223.5	270.7
70°	298.0	232.1	229.2	199.1	200.5
72.5°	252.1	204.8	202.0	179.1	166.2
75°	206.3	173.3	171.9	156.1	134.7
77.5°	161.9	137.5	140.4	126.1	98.8
80°	116.0	100.3	103.1	90.2	74.5
82.5°	77.4	65.9	68.8	57.3	50.1
85°	43.0	37.2	38.7	30.1	22.9
87.5°	20.1	17.2	17.2	11.5	7.2
90°	13.0	8.3	7.7	5.3	3.0
92.5°	80.1	57.0	52.0	31.9	11.8
95°	197.1	111.0	101.8	65.0	28.4
97.5°	265.6	122.0	113.8	81.5	49.0
100°	290.4	131.1	123.8	94.4	64.9
102.5°	301.9	140.3	133.4	106.0	78.5
105°	310.3	153.9	148.0	124.8	101.6
107.5°	311.9	173.9	168.5	146.9	125.2
110°	309.5	185.1	180.2	160.6	141.1



TEST NUMBER: P934390

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	309.6	198.7	194.1	175.4	156.8
115°	312.5	219.1	214.8	197.6	180.4
117.5°	318.3	238.8	234.9	219.4	203.7
120°	323.0	250.4	246.7	232.0	217.3
122.5°	329.8	264.0	260.2	245.4	230.6
125°	338.9	281.3	278.0	264.4	251.0
127.5°	348.1	298.2	294.8	281.2	267.5
130°	354.8	309.4	305.8	291.1	276.4
132.5°	360.2	318.6	315.0	300.3	285.5
135°	366.1	329.2	325.8	312.5	299.1
137.5°	374.9	342.7	339.4	326.2	313.0
140°	380.4	351.9	348.9	336.7	324.5
142.5°	384.9	358.7	355.8	344.6	333.3
145°	390.9	369.1	366.6	356.8	347.0
147.5°	399.5	382.1	379.7	370.1	360.5
150°	404.1	388.9	386.7	378.1	369.4
152.5°	406.9	393.3	391.6	385.1	378.5
155°	413.4	403.0	401.8	397.0	392.1
157.5°	419.9	412.8	411.6	406.8	402.2
160°	422.9	417.1	416.2	412.6	408.9
162.5°	426.0	421.9	421.3	418.5	415.7
165°	430.6	428.7	428.0	425.5	423.1
167.5°	434.1	432.5	432.2	431.0	429.8
170°	437.1	437.0	436.7	435.5	434.3
172.5°	437.3	437.3	437.2	437.0	436.7
175°	439.1	440.0	440.0	440.0	440.0
177.5°	439.3	440.0	440.0	440.0	440.0
180°	440.0	440.0	440.0	440.0	440.0



TEST NUMBER: P934390  
 CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-4000K

**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	13.28	14.21	14.16	15.12	16.27	16.10	17.04	16.99	17.95	19.10
	3H	13.76	14.60	14.66	15.52	16.70	17.45	18.29	18.35	19.21	20.39
	4H	13.95	14.75	14.87	15.67	16.86	17.90	18.69	18.81	19.61	20.80
	6H	14.08	14.81	15.00	15.74	16.94	18.19	18.92	19.11	19.85	21.05
	8H	14.08	14.78	15.01	15.72	16.92	18.26	18.96	19.19	19.90	21.10
	12H	14.05	14.72	14.99	15.66	16.88	18.30	18.97	19.24	19.90	21.13
4H	2H	14.32	15.11	15.24	16.03	17.22	16.52	17.31	17.44	18.24	19.42
	3H	15.35	16.01	16.28	16.97	18.17	18.03	18.69	18.96	19.65	20.85
	4H	15.63	16.24	16.57	17.18	18.41	18.56	19.17	19.50	20.11	21.34
	6H	15.76	16.28	16.71	17.25	18.48	18.93	19.45	19.88	20.42	21.65
	8H	15.77	16.25	16.72	17.22	18.46	19.04	19.52	19.99	20.49	21.73
	12H	15.74	16.18	16.71	17.16	18.41	19.10	19.54	20.07	20.52	21.77
8H	4H	16.09	16.58	17.05	17.54	18.78	18.69	19.18	19.65	20.14	21.39
	6H	16.36	16.76	17.34	17.76	19.00	19.13	19.53	20.11	20.54	21.78
	8H	16.40	16.75	17.39	17.75	19.01	19.28	19.64	20.27	20.63	21.89
	12H	16.39	16.70	17.38	17.69	18.99	19.38	19.70	20.38	20.69	21.99
12H	4H	16.10	16.54	17.07	17.52	18.77	18.66	19.10	19.64	20.08	21.33
	6H	16.42	16.77	17.41	17.77	19.03	19.13	19.48	20.12	20.48	21.74
	8H	16.49	16.80	17.48	17.79	19.09	19.29	19.61	20.29	20.59	21.90