

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: P934391

Luminaire Tested: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

**Test Information**

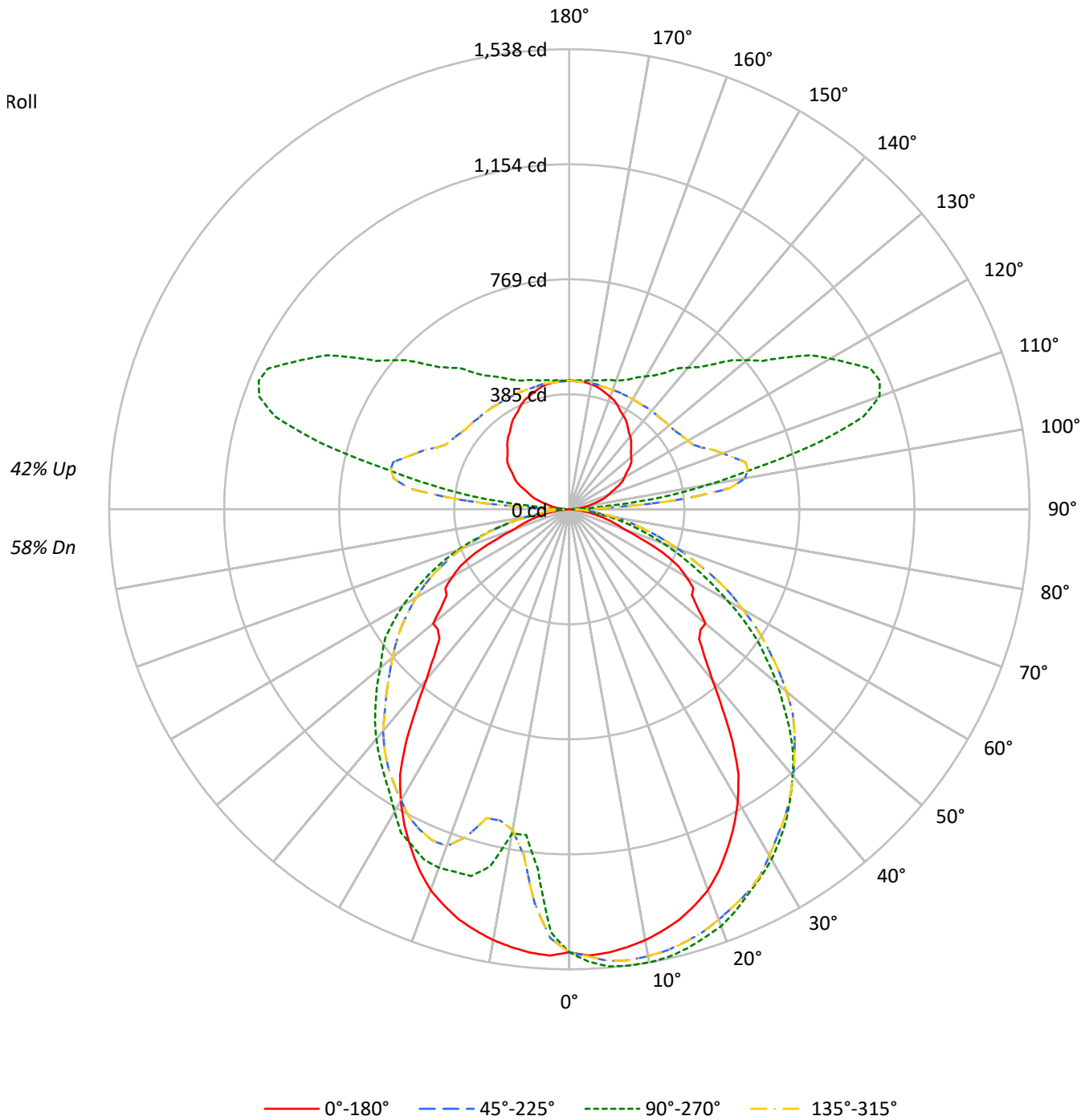
Test Method: LM-79-2019  
Report Number: P934391  
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6630.4 lumens  
Efficiency: N/A  
Efficacy: 121.4 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	50	30	10	0
RCR																					
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

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

	0°	90°	180°	270°
0°	9161	9161	9161	9161
5°	9226	9247	9226	7271
10°	9161	9109	9161	6513
15°	9058	8912	9058	7442
20°	8865	8678	8865	7457
25°	8474	8337	8474	7299
30°	7969	8054	7969	6952
35°	7101	7696	7101	6571
40°	5913	7274	5913	6283
45°	5280	6781	5280	5952
50°	5605	6192	5605	5619
55°	5269	5558	5269	5426
60°	5425	4720	5425	4971
65°	4910	3902	4910	4362
70°	3392	3110	3392	3657
75°	2963	2299	2963	2753
80°	2373	1520	2373	1655
85°	1335	804	1335	684

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8098 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.7	2.0
10°-20°	379.5	5.7
20°-30°	586.7	8.8
30°-40°	700.4	10.6
40°-50°	704.5	10.6
50°-60°	613.0	9.2
60°-70°	434.6	6.6
70°-80°	229.9	3.5
80°-90°	58.9	0.9
90°-100°	209.7	3.2
100°-110°	551.4	8.3
110°-120°	571.7	8.6
120°-130°	458.6	6.9
130°-140°	359.8	5.4
140°-150°	276.2	4.2
150°-160°	198.9	3.0
160°-170°	121.7	1.8
170°-180°	41.1	0.6
0°-30°	1099.9	16.6
0°-40°	1800.3	27.2
0°-60°	3117.8	47.0
0°-90°	3841.2	57.9
90°-120°	1332.8	20.1
90°-150°	2427.4	36.6
90°-180°	2789.0	42.1
0°-180°	6630.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1481	1481	1481	1481	1481	
5°	1488	1534	1488	1206	1488	141
15°	1421	1520	1421	1269	1421	400
25°	1251	1418	1251	1241	1251	574
35°	951	1265	951	1080	951	589
45°	614	1042	614	915	614	492
55°	500	769	500	751	500	460
65°	347	464	347	518	347	332
75°	132	220	132	263	132	138
85°	22	56	22	48	22	30
90°	3	11	3	11	3	3
95°	28	127	28	127	28	31
105°	99	863	99	863	99	105
115°	176	1112	176	1112	176	174
125°	246	885	246	885	246	218
135°	292	687	292	687	292	226
145°	339	557	339	557	339	213
155°	384	480	384	480	384	176
165°	414	447	414	447	414	117
175°	430	433	430	433	430	41
180°	430	430	430	430	430	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1493.5	1493.5	1501.9	1504.7	1504.7	1500.5	1496.3	1500.5	1513.1	1517.3	1515.9
5°	1487.9	1499.1	1514.5	1517.3	1520.1	1518.7	1515.9	1518.7	1532.7	1535.5	1536.9
7.5°	1476.7	1497.7	1517.3	1521.5	1525.7	1521.5	1520.1	1522.9	1536.9	1539.7	1539.7
10°	1462.6	1492.1	1514.5	1517.3	1521.5	1517.3	1517.3	1522.9	1536.9	1539.7	1541.1
12.5°	1443.0	1483.7	1504.7	1507.5	1513.1	1511.7	1510.3	1515.9	1529.9	1532.7	1532.7
15°	1420.6	1468.2	1487.9	1490.7	1500.5	1497.7	1497.7	1503.3	1518.7	1522.9	1521.5
17.5°	1389.8	1448.6	1471.1	1475.3	1482.3	1480.9	1482.3	1487.9	1501.9	1504.7	1506.1
20°	1354.8	1422.0	1448.6	1452.8	1459.8	1459.8	1459.8	1466.8	1480.9	1486.5	1486.5
22.5°	1307.1	1394.0	1422.0	1424.8	1433.2	1433.2	1436.0	1445.8	1458.4	1459.8	1459.8
25°	1251.1	1363.2	1387.0	1395.4	1403.8	1408.0	1412.2	1417.8	1422.0	1420.6	1422.0
27.5°	1192.3	1323.9	1354.8	1360.4	1371.6	1375.8	1381.4	1382.8	1384.2	1388.4	1385.6
30°	1126.4	1269.3	1315.5	1321.1	1339.4	1342.2	1336.6	1339.4	1346.4	1349.2	1352.0
32.5°	1052.2	1188.0	1274.9	1287.5	1304.3	1295.9	1294.5	1298.7	1309.9	1309.9	1312.7
35°	951.3	1125.0	1237.1	1248.3	1260.9	1251.1	1256.7	1258.1	1265.1	1269.3	1267.9
37.5°	840.6	1070.4	1197.9	1206.3	1216.1	1203.5	1211.9	1216.1	1221.7	1218.9	1218.9
40°	742.5	984.9	1151.6	1157.2	1165.6	1155.8	1164.2	1167.0	1169.8	1167.0	1165.6
42.5°	669.7	891.0	1102.6	1109.6	1104.0	1111.0	1113.8	1119.4	1115.2	1109.6	1109.6
45°	613.6	865.8	1049.3	1057.8	1049.3	1060.6	1064.8	1064.8	1052.2	1049.3	1047.9
47.5°	595.4	815.4	996.1	996.1	991.9	1005.9	1012.9	1003.1	990.5	986.3	986.3
50°	594.0	759.3	923.3	917.7	937.3	954.1	947.1	937.3	927.5	912.1	912.1
52.5°	539.4	690.7	829.4	850.4	881.2	891.0	879.8	870.0	853.2	846.2	840.6
55°	500.2	619.2	743.9	786.0	818.2	830.8	809.8	800.0	774.8	770.6	767.7
57.5°	491.8	515.6	665.5	718.7	757.9	756.5	743.9	725.7	704.7	700.5	699.1
60°	451.1	372.7	581.4	644.5	685.1	680.9	669.7	652.9	633.3	630.4	627.6
62.5°	409.1	270.4	486.1	557.6	615.0	613.6	603.8	578.6	564.6	557.6	552.0
65°	347.4	227.0	346.0	463.7	546.4	549.2	528.2	510.0	494.6	486.1	484.7
67.5°	264.8	184.9	234.0	386.7	480.5	477.7	451.1	442.7	423.1	418.9	410.5
70°	196.1	123.3	162.5	313.8	416.1	409.1	388.1	378.3	360.1	350.2	344.6
72.5°	162.5	99.5	119.1	243.8	350.2	341.8	323.6	312.4	297.0	288.6	283.0
75°	131.7	105.1	91.1	180.7	284.4	278.8	262.0	250.8	238.2	227.0	228.4
77.5°	96.7	98.1	72.9	133.1	225.6	217.2	207.3	193.3	187.7	176.5	176.5
80°	72.9	77.1	54.6	91.1	162.5	162.5	154.1	144.3	134.5	128.9	128.9
82.5°	49.0	49.0	40.6	57.4	110.7	106.5	100.9	98.1	92.5	89.7	89.7
85°	22.4	28.0	25.2	35.0	60.2	63.0	63.0	60.2	58.8	56.0	57.4
87.5°	7.0	12.6	15.4	19.6	30.8	32.2	33.6	33.6	33.6	35.0	35.0
90°	2.9	5.2	7.6	8.1	12.7	18.9	21.9	19.5	14.6	10.9	10.9
92.5°	11.6	31.2	50.8	55.8	78.4	108.5	123.6	108.3	77.7	54.8	52.7
95°	27.7	63.6	99.6	108.5	192.8	305.1	361.3	322.4	244.6	186.2	179.6
97.5°	47.9	79.7	111.3	119.3	259.7	447.0	540.6	516.0	466.8	429.9	417.3
100°	63.5	92.3	121.0	128.2	284.0	491.8	595.7	597.5	601.1	603.8	588.9
102.5°	76.8	103.7	130.5	137.2	295.2	505.9	611.3	642.6	705.3	752.2	739.4
105°	99.4	122.1	144.8	150.5	303.5	507.5	609.5	679.8	820.1	925.5	918.6
107.5°	122.4	143.6	164.8	170.1	305.0	484.9	574.9	672.8	868.6	1015.5	1017.2
110°	138.0	157.1	176.2	181.0	302.7	464.9	546.0	655.5	874.5	1038.7	1045.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.4	171.6	189.8	194.4	302.8	447.5	519.8	631.9	855.9	1023.9	1035.0
115°	176.4	193.2	210.1	214.3	305.6	427.4	488.3	596.3	812.1	974.0	989.3
117.5°	199.2	214.5	229.8	233.6	311.3	414.9	466.6	564.0	758.9	905.0	922.0
120°	212.5	226.9	241.3	244.9	315.9	410.6	457.9	547.0	725.0	858.4	875.0
122.5°	225.6	240.0	254.5	258.2	322.5	408.3	451.3	531.4	691.8	812.0	828.3
125°	245.5	258.6	271.9	275.2	331.5	406.6	444.1	512.2	648.4	750.5	765.4
127.5°	261.6	275.0	288.3	291.7	340.4	405.5	438.0	496.5	613.4	701.1	713.7
130°	270.3	284.7	299.1	302.6	347.0	406.1	435.7	487.7	591.9	670.0	681.6
132.5°	279.3	293.6	308.0	311.6	352.3	406.6	433.7	480.4	573.5	643.3	653.8
135°	292.5	305.6	318.7	321.9	358.1	406.2	430.3	469.3	547.3	605.8	614.9
137.5°	306.1	319.1	331.9	335.2	366.7	408.6	429.6	462.6	528.6	578.1	585.4
140°	317.4	329.3	341.2	344.2	372.0	409.1	427.7	456.2	513.1	555.8	562.7
142.5°	326.0	337.0	348.0	350.8	376.4	410.6	427.7	452.7	502.7	540.2	546.2
145°	339.3	348.9	358.6	361.0	382.3	410.6	424.8	445.2	486.1	516.9	521.4
147.5°	352.6	361.9	371.4	373.7	390.7	413.4	424.8	440.8	473.1	497.3	501.0
150°	361.3	369.8	378.2	380.3	395.2	414.9	424.8	438.4	465.6	486.0	488.9
152.5°	370.1	376.6	383.0	384.6	398.0	415.8	424.8	436.4	459.6	477.0	479.2
155°	383.5	388.3	392.9	394.1	404.3	418.0	424.8	434.0	452.5	466.3	467.8
157.5°	393.3	397.9	402.6	403.7	410.7	420.1	424.8	432.0	446.4	457.1	458.1
160°	399.9	403.5	407.0	408.0	413.6	421.0	424.8	430.9	443.3	452.5	453.1
162.5°	406.6	409.3	412.0	412.6	416.7	422.1	424.8	430.0	440.4	448.1	448.7
165°	413.8	416.2	418.6	419.3	421.1	423.6	424.8	428.5	435.9	441.5	442.2
167.5°	420.4	421.5	422.7	423.0	424.6	426.7	427.7	430.1	435.0	438.6	438.9
170°	424.8	425.9	427.1	427.4	427.5	427.6	427.7	430.1	435.0	438.6	438.6
172.5°	427.1	427.4	427.6	427.7	427.7	427.7	427.7	429.5	433.4	436.3	436.1
175°	430.3	430.3	430.3	430.3	429.5	428.2	427.7	428.9	431.3	433.1	433.1
177.5°	430.3	430.3	430.3	430.3	429.6	428.7	428.2	429.2	431.1	432.5	432.3
180°	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1518.7	1514.5	1518.7	1515.9	1517.3	1513.1	1500.5	1496.3	1500.5	1504.7	1504.7
5°	1536.9	1534.1	1536.9	1536.9	1535.5	1532.7	1518.7	1515.9	1518.7	1520.1	1517.3
7.5°	1542.5	1538.3	1542.5	1539.7	1539.7	1536.9	1522.9	1520.1	1521.5	1525.7	1521.5
10°	1542.5	1538.3	1542.5	1541.1	1539.7	1536.9	1522.9	1517.3	1517.3	1521.5	1517.3
12.5°	1535.5	1532.7	1535.5	1532.7	1532.7	1529.9	1515.9	1510.3	1511.7	1513.1	1507.5
15°	1524.3	1520.1	1524.3	1521.5	1522.9	1518.7	1503.3	1497.7	1497.7	1500.5	1490.7
17.5°	1507.5	1501.9	1507.5	1506.1	1504.7	1501.9	1487.9	1482.3	1480.9	1482.3	1475.3
20°	1487.9	1483.7	1487.9	1486.5	1486.5	1480.9	1466.8	1459.8	1459.8	1459.8	1452.8
22.5°	1457.0	1452.8	1457.0	1459.8	1459.8	1458.4	1445.8	1436.0	1433.2	1433.2	1424.8
25°	1422.0	1417.8	1422.0	1422.0	1420.6	1422.0	1417.8	1412.2	1408.0	1403.8	1395.4
27.5°	1388.4	1385.6	1388.4	1385.6	1388.4	1384.2	1382.8	1381.4	1375.8	1371.6	1360.4
30°	1354.8	1352.0	1354.8	1352.0	1349.2	1346.4	1339.4	1336.6	1342.2	1339.4	1321.1
32.5°	1312.7	1309.9	1312.7	1312.7	1309.9	1309.9	1298.7	1294.5	1295.9	1304.3	1287.5
35°	1269.3	1265.1	1269.3	1267.9	1269.3	1265.1	1258.1	1256.7	1251.1	1260.9	1248.3
37.5°	1218.9	1214.7	1218.9	1218.9	1218.9	1221.7	1216.1	1211.9	1203.5	1216.1	1206.3
40°	1167.0	1161.4	1167.0	1165.6	1167.0	1169.8	1167.0	1164.2	1155.8	1165.6	1157.2
42.5°	1108.2	1106.8	1108.2	1109.6	1109.6	1115.2	1119.4	1113.8	1111.0	1104.0	1109.6
45°	1045.1	1042.3	1045.1	1047.9	1049.3	1052.2	1064.8	1064.8	1060.6	1049.3	1057.8
47.5°	977.9	970.9	977.9	986.3	986.3	990.5	1003.1	1012.9	1005.9	991.9	996.1
50°	906.4	907.8	906.4	912.1	912.1	927.5	937.3	947.1	954.1	937.3	917.7
52.5°	836.4	835.0	836.4	840.6	846.2	853.2	870.0	879.8	891.0	881.2	850.4
55°	766.3	769.1	766.3	767.7	770.6	774.8	800.0	809.8	830.8	818.2	786.0
57.5°	696.3	692.1	696.3	699.1	700.5	704.7	725.7	743.9	756.5	757.9	718.7
60°	615.0	609.4	615.0	627.6	630.4	633.3	652.9	669.7	680.9	685.1	644.5
62.5°	543.6	533.8	543.6	552.0	557.6	564.6	578.6	603.8	613.6	615.0	557.6
65°	467.9	463.7	467.9	484.7	486.1	494.6	510.0	528.2	549.2	546.4	463.7
67.5°	399.3	399.3	399.3	410.5	418.9	423.1	442.7	451.1	477.7	480.5	386.7
70°	336.2	334.8	336.2	344.6	350.2	360.1	378.3	388.1	409.1	416.1	313.8
72.5°	276.0	274.6	276.0	283.0	288.6	297.0	312.4	323.6	341.8	350.2	243.8
75°	222.8	220.0	222.8	228.4	227.0	238.2	250.8	262.0	278.8	284.4	180.7
77.5°	170.9	170.9	170.9	176.5	176.5	187.7	193.3	207.3	217.2	225.6	133.1
80°	127.5	126.1	127.5	128.9	128.9	134.5	144.3	154.1	162.5	162.5	91.1
82.5°	89.7	86.9	89.7	89.7	89.7	92.5	98.1	100.9	106.5	110.7	57.4
85°	56.0	56.0	56.0	57.4	56.0	58.8	60.2	63.0	63.0	60.2	35.0
87.5°	36.4	35.0	36.4	35.0	35.0	33.6	33.6	33.6	32.2	30.8	19.6
90°	10.9	10.9	10.9	10.9	10.9	14.6	19.5	21.9	18.9	12.7	8.1
92.5°	43.9	35.2	43.9	52.7	54.8	77.7	108.3	123.6	108.5	78.4	55.8
95°	153.2	126.7	153.2	179.6	186.2	244.6	322.4	361.3	305.1	192.8	108.5
97.5°	367.1	316.8	367.1	417.3	429.9	466.8	516.0	540.6	447.0	259.7	119.3
100°	528.9	469.0	528.9	588.9	603.8	601.1	597.5	595.7	491.8	284.0	128.2
102.5°	688.1	636.7	688.1	739.4	752.2	705.3	642.6	611.3	505.9	295.2	137.2
105°	891.0	863.4	891.0	918.6	925.5	820.1	679.8	609.5	507.5	303.5	150.5
107.5°	1023.9	1030.6	1023.9	1017.2	1015.5	868.6	672.8	574.9	484.9	305.0	170.1
110°	1074.6	1103.3	1074.6	1045.9	1038.7	874.5	655.5	546.0	464.9	302.7	181.0





TEST NUMBER: P934391

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1079.1	1123.2	1079.1	1035.0	1023.9	855.9	631.9	519.8	447.5	302.8	194.4
115°	1050.5	1111.7	1050.5	989.3	974.0	812.1	596.3	488.3	427.4	305.6	214.3
117.5°	989.9	1057.8	989.9	922.0	905.0	758.9	564.0	466.6	414.9	311.3	233.6
120°	940.9	1006.9	940.9	875.0	858.4	725.0	547.0	457.9	410.6	315.9	244.9
122.5°	893.4	958.4	893.4	828.3	812.0	691.8	531.4	451.3	408.3	322.5	258.2
125°	825.4	885.3	825.4	765.4	750.5	648.4	512.2	444.1	406.6	331.5	275.2
127.5°	764.3	814.9	764.3	713.7	701.1	613.4	496.5	438.0	405.5	340.4	291.7
130°	728.3	775.0	728.3	681.6	670.0	591.9	487.7	435.7	406.1	347.0	302.6
132.5°	695.6	737.5	695.6	653.8	643.3	573.5	480.4	433.7	406.6	352.3	311.6
135°	650.9	687.0	650.9	614.9	605.8	547.3	469.3	430.3	406.2	358.1	321.9
137.5°	615.0	644.6	615.0	585.4	578.1	528.6	462.6	429.6	408.6	366.7	335.2
140°	590.3	617.9	590.3	562.7	555.8	513.1	456.2	427.7	409.1	372.0	344.2
142.5°	569.9	593.7	569.9	546.2	540.2	502.7	452.7	427.7	410.6	376.4	350.8
145°	539.4	557.3	539.4	521.4	516.9	486.1	445.2	424.8	410.6	382.3	361.0
147.5°	515.8	530.7	515.8	501.0	497.3	473.1	440.8	424.8	413.4	390.7	373.7
150°	501.1	513.1	501.1	488.9	486.0	465.6	438.4	424.8	414.9	395.2	380.3
152.5°	488.4	497.5	488.4	479.2	477.0	459.6	436.4	424.8	415.8	398.0	384.6
155°	473.9	479.9	473.9	467.8	466.3	452.5	434.0	424.8	418.0	404.3	394.1
157.5°	462.4	466.6	462.4	458.1	457.1	446.4	432.0	424.8	420.1	410.7	403.7
160°	455.5	457.9	455.5	453.1	452.5	443.3	430.9	424.8	421.0	413.6	408.0
162.5°	451.0	453.4	451.0	448.7	448.1	440.4	430.0	424.8	422.1	416.7	412.6
165°	444.6	447.0	444.6	442.2	441.5	435.9	428.5	424.8	423.6	421.1	419.3
167.5°	439.9	440.9	439.9	438.9	438.6	435.0	430.1	427.7	426.7	424.6	423.0
170°	438.6	438.6	438.6	438.6	438.6	435.0	430.1	427.7	427.6	427.5	427.4
172.5°	435.2	434.3	435.2	436.1	436.3	433.4	429.5	427.7	427.7	427.7	427.7
175°	433.1	433.1	433.1	433.1	433.1	431.3	428.9	427.7	428.2	429.5	430.3
177.5°	431.3	430.3	431.3	432.3	432.5	431.1	429.2	428.2	428.7	429.6	430.3
180°	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3



TEST NUMBER: P934391

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1501.9	1493.5	1493.5	1479.5	1473.9	1469.6	1462.6	1441.6	1436.0	1430.4	1438.8
5°	1514.5	1499.1	1487.9	1462.6	1441.6	1433.2	1406.6	1356.2	1322.5	1297.3	1283.3
7.5°	1517.3	1497.7	1476.7	1437.4	1387.0	1364.6	1283.3	1190.9	1165.6	1143.2	1129.2
10°	1514.5	1492.1	1462.6	1403.8	1284.7	1245.5	1164.2	1104.0	1088.6	1084.4	1088.6
12.5°	1504.7	1483.7	1443.0	1345.0	1178.2	1151.6	1104.0	1069.0	1066.2	1073.2	1111.0
15°	1487.9	1468.2	1420.6	1266.5	1119.4	1099.8	1066.2	1053.6	1069.0	1118.0	1231.5
17.5°	1471.1	1448.6	1389.8	1189.4	1074.6	1060.6	1036.7	1062.0	1148.8	1214.7	1252.5
20°	1448.6	1422.0	1354.8	1133.4	1042.3	1029.7	1018.5	1132.0	1197.9	1221.7	1242.7
22.5°	1422.0	1394.0	1307.1	1094.2	1008.7	998.9	1005.9	1171.2	1197.9	1214.7	1232.9
25°	1387.0	1363.2	1251.1	1063.4	982.1	970.9	997.5	1167.0	1182.4	1186.6	1223.1
27.5°	1354.8	1323.9	1192.3	1035.3	949.9	945.7	1004.5	1148.8	1160.0	1164.2	1203.5
30°	1315.5	1269.3	1126.4	1005.9	916.3	914.9	1005.9	1126.4	1123.6	1134.8	1174.0
32.5°	1274.9	1188.0	1052.2	969.5	884.0	882.6	996.1	1092.8	1090.0	1105.4	1134.8
35°	1237.1	1125.0	951.3	927.5	843.4	844.8	972.3	1053.6	1055.0	1069.0	1087.2
37.5°	1197.9	1070.4	840.6	881.2	804.2	804.2	940.1	1017.1	1014.3	1018.5	1043.7
40°	1151.6	984.9	742.5	821.0	767.7	763.5	900.8	977.9	968.1	966.7	1001.7
42.5°	1102.6	891.0	669.7	741.1	725.7	720.1	853.2	930.3	912.1	916.3	961.1
45°	1049.3	865.8	613.6	626.2	682.3	678.1	801.4	875.6	863.0	874.2	920.5
47.5°	996.1	815.4	595.4	519.8	636.1	634.7	743.9	822.4	815.4	826.6	875.6
50°	923.3	759.3	594.0	445.5	584.2	589.8	675.3	770.6	770.6	780.4	832.2
52.5°	829.4	690.7	539.4	403.5	524.0	540.8	615.0	725.7	728.5	738.3	784.6
55°	743.9	619.2	500.2	371.3	452.5	488.9	556.2	679.5	685.1	694.9	736.9
57.5°	665.5	515.6	491.8	333.4	386.7	421.7	504.4	634.7	637.5	645.9	686.5
60°	581.4	372.7	451.1	292.8	329.2	355.9	456.7	581.4	591.2	596.8	631.9
62.5°	486.1	270.4	409.1	264.8	301.2	306.8	417.5	531.0	543.6	547.8	568.8
65°	346.0	227.0	347.4	241.0	271.8	273.2	375.5	479.1	490.4	497.4	512.8
67.5°	234.0	184.9	264.8	218.6	249.4	250.8	334.8	418.9	434.3	439.9	449.7
70°	162.5	123.3	196.1	194.7	224.2	227.0	291.4	364.3	378.3	382.5	388.1
72.5°	119.1	99.5	162.5	175.1	197.5	200.3	246.6	302.6	316.6	320.8	323.6
75°	91.1	105.1	131.7	152.7	168.1	169.5	201.7	246.6	256.4	259.2	260.6
77.5°	72.9	98.1	96.7	123.3	137.3	134.5	158.3	190.5	198.9	198.9	198.9
80°	54.6	77.1	72.9	88.3	100.9	98.1	113.5	135.9	138.7	141.5	140.1
82.5°	40.6	49.0	49.0	56.0	67.2	64.4	75.7	88.3	88.3	88.3	91.1
85°	25.2	28.0	22.4	29.4	37.8	36.4	42.0	47.6	49.0	49.0	46.2
87.5°	15.4	12.6	7.0	11.2	16.8	16.8	19.6	21.0	19.6	19.6	19.6
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.7	18.9	21.9	19.5	14.6
92.5°	50.8	31.2	11.6	31.2	50.8	55.8	78.4	108.5	123.6	108.3	77.7
95°	99.6	63.6	27.7	63.6	99.6	108.5	192.8	305.1	361.3	322.4	244.6
97.5°	111.3	79.7	47.9	79.7	111.3	119.3	259.7	447.0	540.6	516.0	466.8
100°	121.0	92.3	63.5	92.3	121.0	128.2	284.0	491.8	595.7	597.5	601.1
102.5°	130.5	103.7	76.8	103.7	130.5	137.2	295.2	505.9	611.3	642.6	705.3
105°	144.8	122.1	99.4	122.1	144.8	150.5	303.5	507.5	609.5	679.8	820.1
107.5°	164.8	143.6	122.4	143.6	164.8	170.1	305.0	484.9	574.9	672.8	868.6
110°	176.2	157.1	138.0	157.1	176.2	181.0	302.7	464.9	546.0	655.5	874.5



TEST NUMBER: P934391

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	189.8	171.6	153.4	171.6	189.8	194.4	302.8	447.5	519.8	631.9	855.9
115°	210.1	193.2	176.4	193.2	210.1	214.3	305.6	427.4	488.3	596.3	812.1
117.5°	229.8	214.5	199.2	214.5	229.8	233.6	311.3	414.9	466.6	564.0	758.9
120°	241.3	226.9	212.5	226.9	241.3	244.9	315.9	410.6	457.9	547.0	725.0
122.5°	254.5	240.0	225.6	240.0	254.5	258.2	322.5	408.3	451.3	531.4	691.8
125°	271.9	258.6	245.5	258.6	271.9	275.2	331.5	406.6	444.1	512.2	648.4
127.5°	288.3	275.0	261.6	275.0	288.3	291.7	340.4	405.5	438.0	496.5	613.4
130°	299.1	284.7	270.3	284.7	299.1	302.6	347.0	406.1	435.7	487.7	591.9
132.5°	308.0	293.6	279.3	293.6	308.0	311.6	352.3	406.6	433.7	480.4	573.5
135°	318.7	305.6	292.5	305.6	318.7	321.9	358.1	406.2	430.3	469.3	547.3
137.5°	331.9	319.1	306.1	319.1	331.9	335.2	366.7	408.6	429.6	462.6	528.6
140°	341.2	329.3	317.4	329.3	341.2	344.2	372.0	409.1	427.7	456.2	513.1
142.5°	348.0	337.0	326.0	337.0	348.0	350.8	376.4	410.6	427.7	452.7	502.7
145°	358.6	348.9	339.3	348.9	358.6	361.0	382.3	410.6	424.8	445.2	486.1
147.5°	371.4	361.9	352.6	361.9	371.4	373.7	390.7	413.4	424.8	440.8	473.1
150°	378.2	369.8	361.3	369.8	378.2	380.3	395.2	414.9	424.8	438.4	465.6
152.5°	383.0	376.6	370.1	376.6	383.0	384.6	398.0	415.8	424.8	436.4	459.6
155°	392.9	388.3	383.5	388.3	392.9	394.1	404.3	418.0	424.8	434.0	452.5
157.5°	402.6	397.9	393.3	397.9	402.6	403.7	410.7	420.1	424.8	432.0	446.4
160°	407.0	403.5	399.9	403.5	407.0	408.0	413.6	421.0	424.8	430.9	443.3
162.5°	412.0	409.3	406.6	409.3	412.0	412.6	416.7	422.1	424.8	430.0	440.4
165°	418.6	416.2	413.8	416.2	418.6	419.3	421.1	423.6	424.8	428.5	435.9
167.5°	422.7	421.5	420.4	421.5	422.7	423.0	424.6	426.7	427.7	430.1	435.0
170°	427.1	425.9	424.8	425.9	427.1	427.4	427.5	427.6	427.7	430.1	435.0
172.5°	427.6	427.4	427.1	427.4	427.6	427.7	427.7	427.7	427.7	429.5	433.4
175°	430.3	430.3	430.3	430.3	430.3	430.3	429.5	428.2	427.7	428.9	431.3
177.5°	430.3	430.3	430.3	430.3	430.3	430.3	429.6	428.7	428.2	429.2	431.1
180°	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3



TEST NUMBER: P934391

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1429.0	1424.8	1430.4	1415.0	1430.4	1424.8	1429.0	1438.8	1430.4	1436.0	1441.6
5°	1253.9	1246.9	1224.5	1206.3	1224.5	1246.9	1253.9	1283.3	1297.3	1322.5	1356.2
7.5°	1120.8	1115.2	1109.6	1098.4	1109.6	1115.2	1120.8	1129.2	1143.2	1165.6	1190.9
10°	1091.4	1092.8	1101.2	1099.8	1101.2	1092.8	1091.4	1088.6	1084.4	1088.6	1104.0
12.5°	1167.0	1179.6	1225.9	1223.1	1225.9	1179.6	1167.0	1111.0	1073.2	1066.2	1069.0
15°	1253.9	1258.1	1267.9	1269.3	1267.9	1258.1	1253.9	1231.5	1118.0	1069.0	1053.6
17.5°	1262.3	1263.7	1270.7	1270.7	1270.7	1263.7	1262.3	1252.5	1214.7	1148.8	1062.0
20°	1255.3	1258.1	1272.1	1274.9	1272.1	1258.1	1255.3	1242.7	1221.7	1197.9	1132.0
22.5°	1252.5	1258.1	1269.3	1267.9	1269.3	1258.1	1252.5	1232.9	1214.7	1197.9	1171.2
25°	1238.5	1238.5	1239.9	1241.3	1239.9	1238.5	1238.5	1223.1	1186.6	1182.4	1167.0
27.5°	1209.1	1211.9	1220.3	1218.9	1220.3	1211.9	1209.1	1203.5	1164.2	1160.0	1148.8
30°	1182.4	1179.6	1172.6	1167.0	1172.6	1179.6	1182.4	1174.0	1134.8	1123.6	1126.4
32.5°	1137.6	1130.6	1123.6	1119.4	1123.6	1130.6	1137.6	1134.8	1105.4	1090.0	1092.8
35°	1084.4	1085.8	1084.4	1080.2	1084.4	1085.8	1084.4	1087.2	1069.0	1055.0	1053.6
37.5°	1046.5	1049.3	1047.9	1042.3	1047.9	1049.3	1046.5	1043.7	1018.5	1014.3	1017.1
40°	1007.3	1008.7	1007.3	1003.1	1007.3	1008.7	1007.3	1001.7	966.7	968.1	977.9
42.5°	969.5	968.1	963.9	961.1	963.9	968.1	969.5	961.1	916.3	912.1	930.3
45°	926.1	927.5	919.1	914.9	919.1	927.5	926.1	920.5	874.2	863.0	875.6
47.5°	882.6	882.6	875.6	871.4	875.6	882.6	882.6	875.6	826.6	815.4	822.4
50°	836.4	835.0	825.2	823.8	825.2	835.0	836.4	832.2	780.4	770.6	770.6
52.5°	783.2	783.2	784.6	787.4	784.6	783.2	783.2	784.6	738.3	728.5	725.7
55°	736.9	738.3	748.1	750.9	748.1	738.3	736.9	736.9	694.9	685.1	679.5
57.5°	689.3	689.3	696.3	696.3	696.3	689.3	689.3	689.3	686.5	645.9	637.5
60°	634.7	637.5	643.1	641.7	643.1	637.5	634.7	631.9	596.8	591.2	581.4
62.5°	577.2	580.0	581.4	578.6	581.4	580.0	577.2	568.8	547.8	543.6	531.0
65°	517.0	519.8	521.2	518.4	521.2	519.8	517.0	512.8	497.4	490.4	479.1
67.5°	455.3	453.9	452.5	458.1	452.5	453.9	455.3	449.7	439.9	434.3	418.9
70°	392.3	392.3	390.9	393.7	390.9	392.3	392.3	388.1	382.5	378.3	364.3
72.5°	325.0	323.6	329.2	325.0	329.2	323.6	325.0	323.6	320.8	316.6	302.6
75°	259.2	262.0	259.2	263.4	259.2	262.0	259.2	260.6	259.2	256.4	246.6
77.5°	197.5	200.3	197.5	197.5	197.5	200.3	197.5	198.9	198.9	198.9	190.5
80°	140.1	138.7	138.7	137.3	138.7	138.7	140.1	140.1	141.5	138.7	135.9
82.5°	89.7	88.3	88.3	91.1	88.3	88.3	89.7	91.1	88.3	88.3	88.3
85°	49.0	50.4	47.6	47.6	47.6	50.4	49.0	46.2	49.0	49.0	47.6
87.5°	18.2	16.8	16.8	16.8	16.8	16.8	18.2	19.6	19.6	19.6	21.0
90°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	14.6	19.5	21.9	18.9
92.5°	54.8	52.7	43.9	35.2	43.9	52.7	54.8	77.7	108.3	123.6	108.5
95°	186.2	179.6	153.2	126.7	153.2	179.6	186.2	244.6	322.4	361.3	305.1
97.5°	429.9	417.3	367.1	316.8	367.1	417.3	429.9	466.8	516.0	540.6	447.0
100°	603.8	588.9	528.9	469.0	528.9	588.9	603.8	601.1	597.5	595.7	491.8
102.5°	752.2	739.4	688.1	636.7	688.1	739.4	752.2	705.3	642.6	611.3	505.9
105°	925.5	918.6	891.0	863.4	891.0	918.6	925.5	820.1	679.8	609.5	507.5
107.5°	1015.5	1017.2	1023.9	1030.6	1023.9	1017.2	1015.5	868.6	672.8	574.9	484.9
110°	1038.7	1045.9	1074.6	1103.3	1074.6	1045.9	1038.7	874.5	655.5	546.0	464.9



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CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1023.9	1035.0	1079.1	1123.2	1079.1	1035.0	1023.9	855.9	631.9	519.8	447.5
115°	974.0	989.3	1050.5	1111.7	1050.5	989.3	974.0	812.1	596.3	488.3	427.4
117.5°	905.0	922.0	989.9	1057.8	989.9	922.0	905.0	758.9	564.0	466.6	414.9
120°	858.4	875.0	940.9	1006.9	940.9	875.0	858.4	725.0	547.0	457.9	410.6
122.5°	812.0	828.3	893.4	958.4	893.4	828.3	812.0	691.8	531.4	451.3	408.3
125°	750.5	765.4	825.4	885.3	825.4	765.4	750.5	648.4	512.2	444.1	406.6
127.5°	701.1	713.7	764.3	814.9	764.3	713.7	701.1	613.4	496.5	438.0	405.5
130°	670.0	681.6	728.3	775.0	728.3	681.6	670.0	591.9	487.7	435.7	406.1
132.5°	643.3	653.8	695.6	737.5	695.6	653.8	643.3	573.5	480.4	433.7	406.6
135°	605.8	614.9	650.9	687.0	650.9	614.9	605.8	547.3	469.3	430.3	406.2
137.5°	578.1	585.4	615.0	644.6	615.0	585.4	578.1	528.6	462.6	429.6	408.6
140°	555.8	562.7	590.3	617.9	590.3	562.7	555.8	513.1	456.2	427.7	409.1
142.5°	540.2	546.2	569.9	593.7	569.9	546.2	540.2	502.7	452.7	427.7	410.6
145°	516.9	521.4	539.4	557.3	539.4	521.4	516.9	486.1	445.2	424.8	410.6
147.5°	497.3	501.0	515.8	530.7	515.8	501.0	497.3	473.1	440.8	424.8	413.4
150°	486.0	488.9	501.1	513.1	501.1	488.9	486.0	465.6	438.4	424.8	414.9
152.5°	477.0	479.2	488.4	497.5	488.4	479.2	477.0	459.6	436.4	424.8	415.8
155°	466.3	467.8	473.9	479.9	473.9	467.8	466.3	452.5	434.0	424.8	418.0
157.5°	457.1	458.1	462.4	466.6	462.4	458.1	457.1	446.4	432.0	424.8	420.1
160°	452.5	453.1	455.5	457.9	455.5	453.1	452.5	443.3	430.9	424.8	421.0
162.5°	448.1	448.7	451.0	453.4	451.0	448.7	448.1	440.4	430.0	424.8	422.1
165°	441.5	442.2	444.6	447.0	444.6	442.2	441.5	435.9	428.5	424.8	423.6
167.5°	438.6	438.9	439.9	440.9	439.9	438.9	438.6	435.0	430.1	427.7	426.7
170°	438.6	438.6	438.6	438.6	438.6	438.6	438.6	435.0	430.1	427.7	427.6
172.5°	436.3	436.1	435.2	434.3	435.2	436.1	436.3	433.4	429.5	427.7	427.7
175°	433.1	433.1	433.1	433.1	433.1	433.1	433.1	431.3	428.9	427.7	428.2
177.5°	432.5	432.3	431.3	430.3	431.3	432.3	432.5	431.1	429.2	428.2	428.7
180°	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3



TEST NUMBER: P934391

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1462.6	1469.6	1473.9	1479.5	1493.5
5°	1406.6	1433.2	1441.6	1462.6	1487.9
7.5°	1283.3	1364.6	1387.0	1437.4	1476.7
10°	1164.2	1245.5	1284.7	1403.8	1462.6
12.5°	1104.0	1151.6	1178.2	1345.0	1443.0
15°	1066.2	1099.8	1119.4	1266.5	1420.6
17.5°	1036.7	1060.6	1074.6	1189.4	1389.8
20°	1018.5	1029.7	1042.3	1133.4	1354.8
22.5°	1005.9	998.9	1008.7	1094.2	1307.1
25°	997.5	970.9	982.1	1063.4	1251.1
27.5°	1004.5	945.7	949.9	1035.3	1192.3
30°	1005.9	914.9	916.3	1005.9	1126.4
32.5°	996.1	882.6	884.0	969.5	1052.2
35°	972.3	844.8	843.4	927.5	951.3
37.5°	940.1	804.2	804.2	881.2	840.6
40°	900.8	763.5	767.7	821.0	742.5
42.5°	853.2	720.1	725.7	741.1	669.7
45°	801.4	678.1	682.3	626.2	613.6
47.5°	743.9	634.7	636.1	519.8	595.4
50°	675.3	589.8	584.2	445.5	594.0
52.5°	615.0	540.8	524.0	403.5	539.4
55°	556.2	488.9	452.5	371.3	500.2
57.5°	504.4	421.7	386.7	333.4	491.8
60°	456.7	355.9	329.2	292.8	451.1
62.5°	417.5	306.8	301.2	264.8	409.1
65°	375.5	273.2	271.8	241.0	347.4
67.5°	334.8	250.8	249.4	218.6	264.8
70°	291.4	227.0	224.2	194.7	196.1
72.5°	246.6	200.3	197.5	175.1	162.5
75°	201.7	169.5	168.1	152.7	131.7
77.5°	158.3	134.5	137.3	123.3	96.7
80°	113.5	98.1	100.9	88.3	72.9
82.5°	75.7	64.4	67.2	56.0	49.0
85°	42.0	36.4	37.8	29.4	22.4
87.5°	19.6	16.8	16.8	11.2	7.0
90°	12.7	8.1	7.6	5.2	2.9
92.5°	78.4	55.8	50.8	31.2	11.6
95°	192.8	108.5	99.6	63.6	27.7
97.5°	259.7	119.3	111.3	79.7	47.9
100°	284.0	128.2	121.0	92.3	63.5
102.5°	295.2	137.2	130.5	103.7	76.8
105°	303.5	150.5	144.8	122.1	99.4
107.5°	305.0	170.1	164.8	143.6	122.4
110°	302.7	181.0	176.2	157.1	138.0



TEST NUMBER: P934391

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	302.8	194.4	189.8	171.6	153.4
115°	305.6	214.3	210.1	193.2	176.4
117.5°	311.3	233.6	229.8	214.5	199.2
120°	315.9	244.9	241.3	226.9	212.5
122.5°	322.5	258.2	254.5	240.0	225.6
125°	331.5	275.2	271.9	258.6	245.5
127.5°	340.4	291.7	288.3	275.0	261.6
130°	347.0	302.6	299.1	284.7	270.3
132.5°	352.3	311.6	308.0	293.6	279.3
135°	358.1	321.9	318.7	305.6	292.5
137.5°	366.7	335.2	331.9	319.1	306.1
140°	372.0	344.2	341.2	329.3	317.4
142.5°	376.4	350.8	348.0	337.0	326.0
145°	382.3	361.0	358.6	348.9	339.3
147.5°	390.7	373.7	371.4	361.9	352.6
150°	395.2	380.3	378.2	369.8	361.3
152.5°	398.0	384.6	383.0	376.6	370.1
155°	404.3	394.1	392.9	388.3	383.5
157.5°	410.7	403.7	402.6	397.9	393.3
160°	413.6	408.0	407.0	403.5	399.9
162.5°	416.7	412.6	412.0	409.3	406.6
165°	421.1	419.3	418.6	416.2	413.8
167.5°	424.6	423.0	422.7	421.5	420.4
170°	427.5	427.4	427.1	425.9	424.8
172.5°	427.7	427.7	427.6	427.4	427.1
175°	429.5	430.3	430.3	430.3	430.3
177.5°	429.6	430.3	430.3	430.3	430.3
180°	430.3	430.3	430.3	430.3	430.3



TEST NUMBER: P934391  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.20	14.14	14.09	15.04	16.20	16.02	16.96	16.91	17.87	19.02
	3H	13.68	14.52	14.58	15.44	16.62	17.37	18.21	18.27	19.13	20.31
	4H	13.88	14.67	14.79	15.59	16.78	17.82	18.61	18.73	19.54	20.72
	6H	14.00	14.73	14.93	15.66	16.86	18.11	18.84	19.03	19.77	20.97
	8H	14.00	14.70	14.94	15.65	16.85	18.18	18.88	19.12	19.83	21.03
	12H	13.98	14.64	14.92	15.58	16.81	18.22	18.89	19.16	19.83	21.05
4H	2H	14.24	15.04	15.16	15.96	17.14	16.44	17.24	17.36	18.16	19.35
	3H	15.27	15.94	16.20	16.89	18.09	17.95	18.62	18.88	19.57	20.77
	4H	15.55	16.16	16.49	17.11	18.33	18.48	19.09	19.42	20.04	21.26
	6H	15.68	16.20	16.64	17.18	18.40	18.85	19.37	19.81	20.34	21.57
	8H	15.69	16.18	16.65	17.14	18.38	18.96	19.45	19.92	20.41	21.65
	12H	15.66	16.10	16.64	17.08	18.33	19.02	19.46	19.99	20.44	21.69
8H	4H	16.01	16.50	16.97	17.46	18.71	18.62	19.10	19.57	20.07	21.31
	6H	16.28	16.68	17.26	17.69	18.93	19.05	19.46	20.04	20.46	21.70
	8H	16.32	16.68	17.31	17.67	18.93	19.21	19.56	20.20	20.56	21.81
	12H	16.31	16.62	17.30	17.61	18.92	19.31	19.62	20.30	20.61	21.91
12H	4H	16.02	16.46	17.00	17.44	18.69	18.58	19.02	19.56	20.00	21.25
	6H	16.34	16.69	17.33	17.69	18.95	19.05	19.41	20.04	20.40	21.66
	8H	16.41	16.72	17.40	17.71	19.02	19.22	19.53	20.21	20.52	21.82