

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: P934789

Luminaire Tested: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

**Test Information**

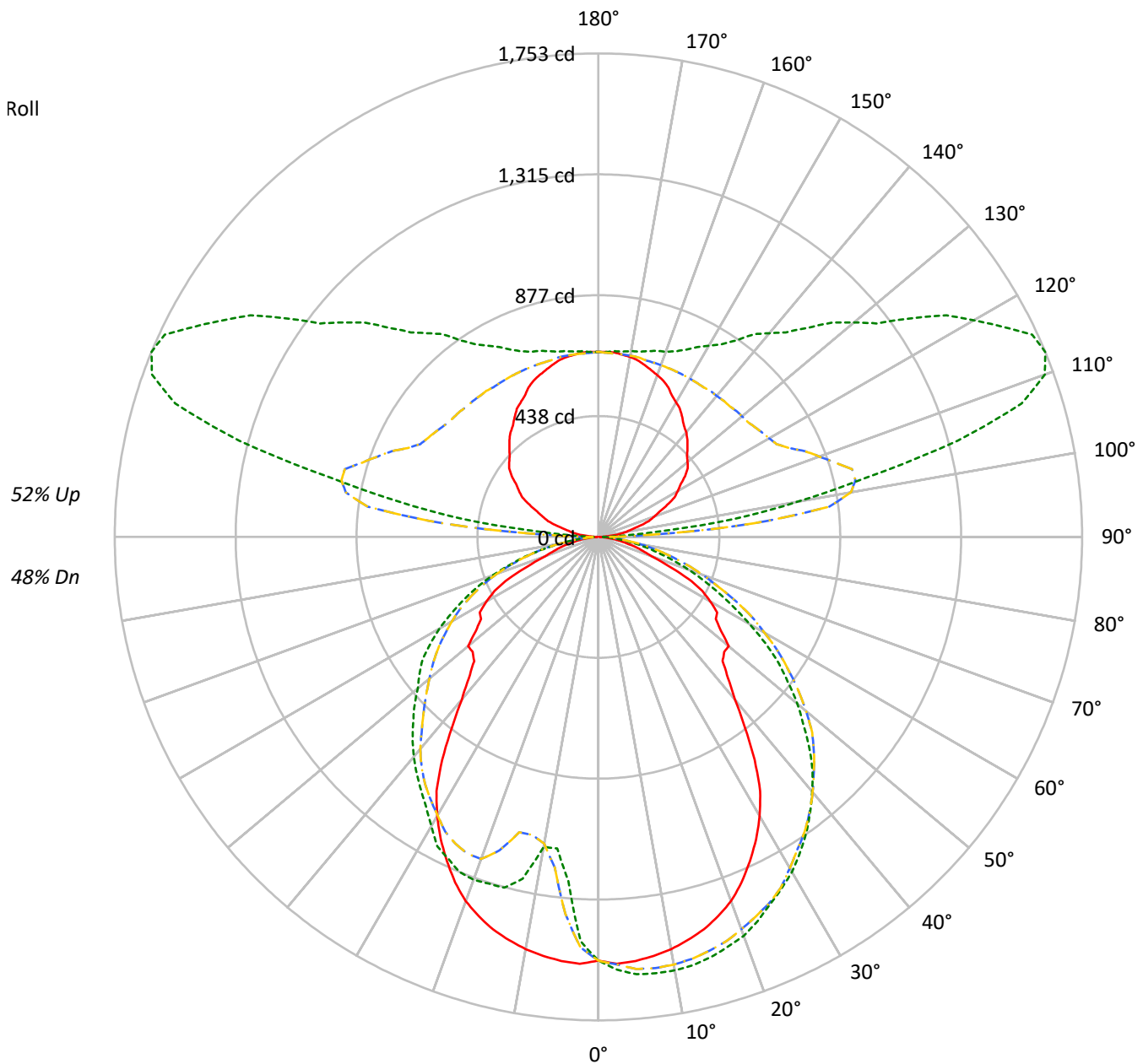
Test Method: LM-79-2019  
Report Number: P934789  
REPORT IS A COMBINATION OF REPORTS P933711 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-6-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8338.2 lumens  
Efficiency: N/A  
Efficacy: 131.1 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): 63.6  
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



— 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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

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

	0°	90°	180°	270°
0°	9504	9504	9504	9504
5°	9571	9594	9571	7544
10°	9504	9450	9504	6756
15°	9397	9245	9397	7721
20°	9197	9003	9197	7737
25°	8791	8649	8791	7572
30°	8268	8356	8268	7213
35°	7367	7984	7367	6817
40°	6136	7547	6136	6518
45°	5478	7035	5478	6174
50°	5816	6425	5816	5830
55°	5466	5767	5466	5630
60°	5628	4898	5628	5156
65°	5095	4048	5095	4526
70°	3520	3227	3520	3793
75°	3074	2385	3074	2856
80°	2461	1577	2461	1716
85°	1389	835	1389	710

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8402 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.7	1.7
10°-20°	393.8	4.7
20°-30°	608.7	7.3
30°-40°	726.6	8.7
40°-50°	730.9	8.8
50°-60°	636.0	7.6
60°-70°	450.9	5.4
70°-80°	238.6	2.9
80°-90°	62.0	0.7
90°-100°	327.2	3.9
100°-110°	860.4	10.3
110°-120°	892.1	10.7
120°-130°	715.6	8.6
130°-140°	561.5	6.7
140°-150°	431.0	5.2
150°-160°	310.4	3.7
160°-170°	189.9	2.3
170°-180°	64.2	0.8
0°-30°	1141.1	13.7
0°-40°	1867.7	22.4
0°-60°	3234.6	38.8
0°-90°	3986.0	47.8
90°-120°	2079.7	24.9
90°-150°	3787.7	45.4
90°-180°	4352.0	52.2
0°-180°	8338.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1536	1536	1536	1536	1536	
5°	1544	1592	1544	1252	1544	146
15°	1474	1577	1474	1317	1474	415
25°	1298	1471	1298	1288	1298	596
35°	987	1312	987	1121	987	611
45°	637	1081	637	949	637	510
55°	519	798	519	779	519	477
65°	360	481	360	538	360	345
75°	137	228	137	273	137	144
85°	23	58	23	49	23	31
90°	4	17	4	17	4	5
95°	43	198	43	198	43	48
105°	155	1347	155	1347	155	164
115°	275	1735	275	1735	275	272
125°	383	1382	383	1382	383	340
135°	456	1072	456	1072	456	353
145°	530	870	530	870	530	332
155°	598	749	598	749	598	275
165°	646	698	646	698	646	182
175°	671	676	671	676	671	64
180°	671	671	671	671	671	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1549.4	1549.4	1558.2	1561.1	1561.1	1556.7	1552.3	1556.7	1569.8	1574.1	1572.7
5°	1543.6	1555.2	1571.2	1574.1	1577.0	1575.6	1572.7	1575.6	1590.1	1593.0	1594.5
7.5°	1532.0	1553.8	1574.1	1578.5	1582.9	1578.5	1577.0	1580.0	1594.5	1597.4	1597.4
10°	1517.5	1548.0	1571.2	1574.1	1578.5	1574.1	1574.1	1580.0	1594.5	1597.4	1598.8
12.5°	1497.1	1539.3	1561.1	1564.0	1569.8	1568.3	1566.9	1572.7	1587.2	1590.1	1590.1
15°	1473.8	1523.3	1543.6	1546.5	1556.7	1553.8	1553.8	1559.6	1575.6	1580.0	1578.5
17.5°	1441.9	1502.9	1526.2	1530.5	1537.8	1536.3	1537.8	1543.6	1558.2	1561.1	1562.5
20°	1405.5	1475.3	1502.9	1507.3	1514.5	1514.5	1514.5	1521.8	1536.3	1542.2	1542.2
22.5°	1356.1	1446.2	1475.3	1478.2	1486.9	1486.9	1489.8	1500.0	1513.1	1514.5	1514.5
25°	1298.0	1414.3	1439.0	1447.7	1456.4	1460.8	1465.1	1470.9	1475.3	1473.8	1475.3
27.5°	1236.9	1373.6	1405.5	1411.3	1423.0	1427.3	1433.2	1434.6	1436.1	1440.4	1437.5
30°	1168.6	1316.9	1364.8	1370.7	1389.5	1392.5	1386.6	1389.5	1396.8	1399.7	1402.6
32.5°	1091.6	1232.6	1322.7	1335.8	1353.2	1344.5	1343.0	1347.4	1359.0	1359.0	1361.9
35°	986.9	1167.2	1283.4	1295.1	1308.1	1298.0	1303.8	1305.2	1312.5	1316.9	1315.4
37.5°	872.1	1110.5	1242.7	1251.5	1261.6	1248.6	1257.3	1261.6	1267.5	1264.5	1264.5
40°	770.4	1021.8	1194.8	1200.6	1209.3	1199.1	1207.9	1210.8	1213.7	1210.8	1209.3
42.5°	694.8	924.4	1143.9	1151.2	1145.4	1152.6	1155.5	1161.3	1157.0	1151.2	1151.2
45°	636.6	898.3	1088.7	1097.4	1088.7	1100.3	1104.7	1104.7	1091.6	1088.7	1087.2
47.5°	617.7	845.9	1033.4	1033.4	1029.1	1043.6	1050.9	1040.7	1027.6	1023.3	1023.3
50°	616.3	787.8	957.9	952.0	972.4	989.8	982.6	972.4	962.2	946.2	946.2
52.5°	559.6	716.6	860.5	882.3	914.3	924.4	912.8	902.6	885.2	877.9	872.1
55°	518.9	642.4	771.8	815.4	848.8	861.9	840.1	829.9	803.8	799.4	796.5
57.5°	510.2	534.9	690.4	745.6	786.3	784.9	771.8	752.9	731.1	726.8	725.3
60°	468.0	386.6	603.2	668.6	710.8	706.4	694.8	677.3	657.0	654.1	651.2
62.5°	424.4	280.5	504.4	578.5	638.1	636.6	626.5	600.3	585.8	578.5	572.7
65°	360.5	235.5	359.0	481.1	566.9	569.8	548.0	529.1	513.1	504.4	502.9
67.5°	274.7	191.9	242.7	401.2	498.6	495.6	468.0	459.3	439.0	434.6	425.9
70°	203.5	127.9	168.6	325.6	431.7	424.4	402.6	392.4	373.5	363.4	357.6
72.5°	168.6	103.2	123.5	252.9	363.4	354.7	335.8	324.1	308.1	299.4	293.6
75°	136.6	109.0	94.5	187.5	295.1	289.2	271.8	260.2	247.1	235.5	236.9
77.5°	100.3	101.7	75.6	138.1	234.0	225.3	215.1	200.6	194.8	183.1	183.1
80°	75.6	79.9	56.7	94.5	168.6	168.6	159.9	149.7	139.5	133.7	133.7
82.5°	50.9	50.9	42.2	59.6	114.8	110.5	104.7	101.7	95.9	93.0	93.0
85°	23.3	29.1	26.2	36.3	62.5	65.4	65.4	62.5	61.0	58.1	59.6
87.5°	7.3	13.1	16.0	20.3	32.0	33.4	34.9	34.9	34.9	36.3	36.3
90°	4.5	8.0	11.7	12.6	19.8	29.4	34.2	30.4	22.9	17.2	17.2
92.5°	18.0	48.6	79.3	86.9	122.2	169.3	192.8	169.0	121.3	85.6	82.2
95°	43.2	99.3	155.3	169.4	300.8	476.1	563.7	503.0	381.6	290.6	280.3
97.5°	74.8	124.2	173.6	186.0	405.2	697.4	843.5	805.1	728.5	670.9	651.3
100°	99.1	144.0	188.9	200.1	443.2	767.4	929.6	932.4	938.0	942.2	918.8
102.5°	119.9	161.7	203.6	214.1	460.7	789.4	953.9	1002.7	1100.5	1173.7	1153.7
105°	155.0	190.5	226.0	234.8	473.6	792.0	951.2	1060.7	1279.8	1444.1	1433.3
107.5°	191.1	224.1	257.2	265.4	476.0	756.7	897.1	1049.9	1355.5	1584.7	1587.3
110°	215.4	245.3	275.0	282.5	472.3	725.5	852.0	1022.9	1364.5	1620.7	1632.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	239.2	267.6	296.1	303.2	472.5	698.2	811.1	985.9	1335.5	1597.7	1614.9
115°	275.3	301.6	327.7	334.3	476.8	666.9	761.9	930.3	1267.2	1519.8	1543.6
117.5°	310.9	334.7	358.5	364.5	485.8	647.3	728.1	880.1	1184.1	1412.1	1438.6
120°	331.6	354.1	376.5	382.1	492.9	640.7	714.6	853.5	1131.2	1339.5	1365.3
122.5°	351.9	374.5	397.2	402.8	503.3	637.3	704.3	829.3	1079.4	1267.0	1292.4
125°	382.9	403.6	424.2	429.4	517.3	634.4	693.0	799.2	1011.7	1171.0	1194.4
127.5°	408.2	429.1	449.8	455.0	531.2	632.8	683.5	774.7	957.2	1094.0	1113.8
130°	421.7	444.2	466.6	472.2	541.5	633.8	679.9	761.1	923.6	1045.4	1063.6
132.5°	435.7	458.1	480.5	486.1	549.7	634.4	676.7	749.4	894.9	1003.9	1020.2
135°	456.4	476.8	497.3	502.4	558.7	633.8	671.3	732.2	854.0	945.3	959.3
137.5°	477.6	497.8	518.0	523.1	572.2	637.7	670.5	721.9	824.8	902.0	913.6
140°	495.2	513.8	532.5	537.1	580.5	638.4	667.3	711.7	800.7	867.4	878.1
142.5°	508.7	526.0	543.2	547.5	587.4	640.6	667.3	706.3	784.4	843.0	852.3
145°	529.5	544.5	559.4	563.2	596.4	640.7	662.8	694.8	758.6	806.5	813.5
147.5°	550.1	564.7	579.4	583.0	609.6	645.1	662.8	687.9	738.2	775.9	781.7
150°	563.7	576.8	590.1	593.4	616.6	647.4	662.8	684.0	726.5	758.3	763.1
152.5°	577.6	587.7	597.7	600.2	621.0	648.8	662.8	680.9	717.2	744.4	748.0
155°	598.4	605.7	613.2	615.0	630.9	652.1	662.8	677.2	706.1	727.7	730.0
157.5°	613.7	620.9	628.1	629.9	640.9	655.5	662.8	674.0	696.4	713.3	714.9
160°	624.0	629.7	635.3	636.6	645.4	657.0	662.8	672.4	691.6	706.0	707.0
162.5°	634.4	638.7	642.8	643.9	650.2	658.6	662.8	670.9	687.1	699.3	700.2
165°	645.6	649.5	653.3	654.3	657.1	660.9	662.8	668.6	680.2	689.0	689.9
167.5°	656.0	657.9	659.6	660.1	662.5	665.7	667.3	671.0	678.7	684.4	684.8
170°	662.8	664.6	666.4	666.9	667.0	667.2	667.3	671.0	678.7	684.4	684.4
172.5°	666.4	666.8	667.2	667.3	667.3	667.3	667.3	670.3	676.3	680.8	680.4
175°	671.3	671.3	671.3	671.3	670.0	668.1	667.3	669.2	673.0	675.9	675.9
177.5°	671.3	671.3	671.3	671.3	670.3	668.9	668.2	669.8	672.8	675.0	674.6
180°	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1575.6	1571.2	1575.6	1572.7	1574.1	1569.8	1556.7	1552.3	1556.7	1561.1	1561.1
5°	1594.5	1591.6	1594.5	1594.5	1593.0	1590.1	1575.6	1572.7	1575.6	1577.0	1574.1
7.5°	1600.3	1595.9	1600.3	1597.4	1597.4	1594.5	1580.0	1577.0	1578.5	1582.9	1578.5
10°	1600.3	1595.9	1600.3	1598.8	1597.4	1594.5	1580.0	1574.1	1574.1	1578.5	1574.1
12.5°	1593.0	1590.1	1593.0	1590.1	1590.1	1587.2	1572.7	1566.9	1568.3	1569.8	1564.0
15°	1581.4	1577.0	1581.4	1578.5	1580.0	1575.6	1559.6	1553.8	1553.8	1556.7	1546.5
17.5°	1564.0	1558.2	1564.0	1562.5	1561.1	1558.2	1543.6	1537.8	1536.3	1537.8	1530.5
20°	1543.6	1539.3	1543.6	1542.2	1542.2	1536.3	1521.8	1514.5	1514.5	1514.5	1507.3
22.5°	1511.6	1507.3	1511.6	1514.5	1514.5	1513.1	1500.0	1489.8	1486.9	1486.9	1478.2
25°	1475.3	1470.9	1475.3	1475.3	1473.8	1475.3	1470.9	1465.1	1460.8	1456.4	1447.7
27.5°	1440.4	1437.5	1440.4	1437.5	1440.4	1436.1	1434.6	1433.2	1427.3	1423.0	1411.3
30°	1405.5	1402.6	1405.5	1402.6	1399.7	1396.8	1389.5	1386.6	1392.5	1389.5	1370.7
32.5°	1361.9	1359.0	1361.9	1361.9	1359.0	1359.0	1347.4	1343.0	1344.5	1353.2	1335.8
35°	1316.9	1312.5	1316.9	1315.4	1316.9	1312.5	1305.2	1303.8	1298.0	1308.1	1295.1
37.5°	1264.5	1260.2	1264.5	1264.5	1264.5	1267.5	1261.6	1257.3	1248.6	1261.6	1251.5
40°	1210.8	1205.0	1210.8	1209.3	1210.8	1213.7	1210.8	1207.9	1199.1	1209.3	1200.6
42.5°	1149.7	1148.3	1149.7	1151.2	1151.2	1157.0	1161.3	1155.5	1152.6	1145.4	1151.2
45°	1084.3	1081.4	1084.3	1087.2	1088.7	1091.6	1104.7	1104.7	1100.3	1088.7	1097.4
47.5°	1014.5	1007.3	1014.5	1023.3	1023.3	1027.6	1040.7	1050.9	1043.6	1029.1	1033.4
50°	940.4	941.9	940.4	946.2	946.2	962.2	972.4	982.6	989.8	972.4	952.0
52.5°	867.7	866.3	867.7	872.1	877.9	885.2	902.6	912.8	924.4	914.3	882.3
55°	795.1	798.0	795.1	796.5	799.4	803.8	829.9	840.1	861.9	848.8	815.4
57.5°	722.4	718.0	722.4	725.3	726.8	731.1	752.9	771.8	784.9	786.3	745.6
60°	638.1	632.3	638.1	651.2	654.1	657.0	677.3	694.8	706.4	710.8	668.6
62.5°	564.0	553.8	564.0	572.7	578.5	585.8	600.3	626.5	636.6	638.1	578.5
65°	485.5	481.1	485.5	502.9	504.4	513.1	529.1	548.0	569.8	566.9	481.1
67.5°	414.2	414.2	414.2	425.9	434.6	439.0	459.3	468.0	495.6	498.6	401.2
70°	348.8	347.4	348.8	357.6	363.4	373.5	392.4	402.6	424.4	431.7	325.6
72.5°	286.3	284.9	286.3	293.6	299.4	308.1	324.1	335.8	354.7	363.4	252.9
75°	231.1	228.2	231.1	236.9	235.5	247.1	260.2	271.8	289.2	295.1	187.5
77.5°	177.3	177.3	177.3	183.1	183.1	194.8	200.6	215.1	225.3	234.0	138.1
80°	132.3	130.8	132.3	133.7	133.7	139.5	149.7	159.9	168.6	168.6	94.5
82.5°	93.0	90.1	93.0	93.0	93.0	95.9	101.7	104.7	110.5	114.8	59.6
85°	58.1	58.1	58.1	59.6	58.1	61.0	62.5	65.4	65.4	62.5	36.3
87.5°	37.8	36.3	37.8	36.3	36.3	34.9	34.9	34.9	33.4	32.0	20.3
90°	17.2	17.2	17.2	17.2	17.2	22.9	30.4	34.2	29.4	19.8	12.6
92.5°	68.5	54.9	68.5	82.2	85.6	121.3	169.0	192.8	169.3	122.2	86.9
95°	239.1	197.8	239.1	280.3	290.6	381.6	503.0	563.7	476.1	300.8	169.4
97.5°	572.8	494.3	572.8	651.3	670.9	728.5	805.1	843.5	697.4	405.2	186.0
100°	825.2	731.7	825.2	918.8	942.2	938.0	932.4	929.6	767.4	443.2	200.1
102.5°	1073.7	993.5	1073.7	1153.7	1173.7	1100.5	1002.7	953.9	789.4	460.7	214.1
105°	1390.2	1347.2	1390.2	1433.3	1444.1	1279.8	1060.7	951.2	792.0	473.6	234.8
107.5°	1597.7	1608.1	1597.7	1587.3	1584.7	1355.5	1049.9	897.1	756.7	476.0	265.4
110°	1676.8	1721.6	1676.8	1632.0	1620.7	1364.5	1022.9	852.0	725.5	472.3	282.5





TEST NUMBER: P934789

CATALOG NUMBER: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1683.8	1752.7	1683.8	1614.9	1597.7	1335.5	985.9	811.1	698.2	472.5	303.2
115°	1639.2	1734.7	1639.2	1543.6	1519.8	1267.2	930.3	761.9	666.9	476.8	334.3
117.5°	1544.5	1650.4	1544.5	1438.6	1412.1	1184.1	880.1	728.1	647.3	485.8	364.5
120°	1468.2	1571.1	1468.2	1365.3	1339.5	1131.2	853.5	714.6	640.7	492.9	382.1
122.5°	1393.9	1495.5	1393.9	1292.4	1267.0	1079.4	829.3	704.3	637.3	503.3	402.8
125°	1288.0	1381.5	1288.0	1194.4	1171.0	1011.7	799.2	693.0	634.4	517.3	429.4
127.5°	1192.6	1271.5	1192.6	1113.8	1094.0	957.2	774.7	683.5	632.8	531.2	455.0
130°	1136.4	1209.3	1136.4	1063.6	1045.4	923.6	761.1	679.9	633.8	541.5	472.2
132.5°	1085.5	1150.8	1085.5	1020.2	1003.9	894.9	749.4	676.7	634.4	549.7	486.1
135°	1015.6	1071.9	1015.6	959.3	945.3	854.0	732.2	671.3	633.8	558.7	502.4
137.5°	959.6	1005.7	959.6	913.6	902.0	824.8	721.9	670.5	637.7	572.2	523.1
140°	921.2	964.3	921.2	878.1	867.4	800.7	711.7	667.3	638.4	580.5	537.1
142.5°	889.3	926.4	889.3	852.3	843.0	784.4	706.3	667.3	640.6	587.4	547.5
145°	841.6	869.6	841.6	813.5	806.5	758.6	694.8	662.8	640.7	596.4	563.2
147.5°	804.9	828.1	804.9	781.7	775.9	738.2	687.9	662.8	645.1	609.6	583.0
150°	781.9	800.7	781.9	763.1	758.3	726.5	684.0	662.8	647.4	616.6	593.4
152.5°	762.1	776.4	762.1	748.0	744.4	717.2	680.9	662.8	648.8	621.0	600.2
155°	739.4	748.8	739.4	730.0	727.7	706.1	677.2	662.8	652.1	630.9	615.0
157.5°	721.5	728.1	721.5	714.9	713.3	696.4	674.0	662.8	655.5	640.9	629.9
160°	710.8	714.6	710.8	707.0	706.0	691.6	672.4	662.8	657.0	645.4	636.6
162.5°	703.8	707.4	703.8	700.2	699.3	687.1	670.9	662.8	658.6	650.2	643.9
165°	693.7	697.5	693.7	689.9	689.0	680.2	668.6	662.8	660.9	657.1	654.3
167.5°	686.4	688.0	686.4	684.8	684.4	678.7	671.0	667.3	665.7	662.5	660.1
170°	684.4	684.4	684.4	684.4	684.4	678.7	671.0	667.3	667.2	667.0	666.9
172.5°	679.1	677.6	679.1	680.4	680.8	676.3	670.3	667.3	667.3	667.3	667.3
175°	675.9	675.9	675.9	675.9	675.9	673.0	669.2	667.3	668.1	670.0	671.3
177.5°	673.0	671.3	673.0	674.6	675.0	672.8	669.8	668.2	668.9	670.3	671.3
180°	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3



TEST NUMBER: P934789

CATALOG NUMBER: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1558.2	1549.4	1549.4	1534.9	1529.1	1524.7	1517.5	1495.7	1489.8	1484.0	1492.7
5°	1571.2	1555.2	1543.6	1517.5	1495.7	1486.9	1459.3	1407.0	1372.1	1345.9	1331.4
7.5°	1574.1	1553.8	1532.0	1491.3	1439.0	1415.7	1331.4	1235.5	1209.3	1186.1	1171.5
10°	1571.2	1548.0	1517.5	1456.4	1332.9	1292.2	1207.9	1145.4	1129.4	1125.0	1129.4
12.5°	1561.1	1539.3	1497.1	1395.4	1222.4	1194.8	1145.4	1109.0	1106.1	1113.4	1152.6
15°	1543.6	1523.3	1473.8	1314.0	1161.3	1141.0	1106.1	1093.0	1109.0	1159.9	1277.6
17.5°	1526.2	1502.9	1441.9	1234.0	1114.8	1100.3	1075.6	1101.8	1191.9	1260.2	1299.4
20°	1502.9	1475.3	1405.5	1175.9	1081.4	1068.3	1056.7	1174.4	1242.7	1267.5	1289.3
22.5°	1475.3	1446.2	1356.1	1135.2	1046.5	1036.3	1043.6	1215.1	1242.7	1260.2	1279.1
25°	1439.0	1414.3	1298.0	1103.2	1018.9	1007.3	1034.9	1210.8	1226.8	1231.1	1268.9
27.5°	1405.5	1373.6	1236.9	1074.1	985.5	981.1	1042.2	1191.9	1203.5	1207.9	1248.6
30°	1364.8	1316.9	1168.6	1043.6	950.6	949.1	1043.6	1168.6	1165.7	1177.3	1218.0
32.5°	1322.7	1232.6	1091.6	1005.8	917.2	915.7	1033.4	1133.7	1130.8	1146.8	1177.3
35°	1283.4	1167.2	986.9	962.2	875.0	876.5	1008.7	1093.0	1094.5	1109.0	1127.9
37.5°	1242.7	1110.5	872.1	914.3	834.3	834.3	975.3	1055.2	1052.3	1056.7	1082.9
40°	1194.8	1021.8	770.4	851.8	796.5	792.2	934.6	1014.5	1004.4	1002.9	1039.3
42.5°	1143.9	924.4	694.8	768.9	752.9	747.1	885.2	965.1	946.2	950.6	997.1
45°	1088.7	898.3	636.6	649.7	707.9	703.5	831.4	908.4	895.4	907.0	954.9
47.5°	1033.4	845.9	617.7	539.2	659.9	658.4	771.8	853.2	845.9	857.6	908.4
50°	957.9	787.8	616.3	462.2	606.1	611.9	700.6	799.4	799.4	809.6	863.4
52.5°	860.5	716.6	559.6	418.6	543.6	561.1	638.1	752.9	755.8	766.0	814.0
55°	771.8	642.4	518.9	385.2	469.5	507.3	577.0	704.9	710.8	720.9	764.5
57.5°	690.4	534.9	510.2	345.9	401.2	437.5	523.3	658.4	661.3	670.1	712.2
60°	603.2	386.6	468.0	303.8	341.6	369.2	473.8	603.2	613.4	619.2	655.5
62.5°	504.4	280.5	424.4	274.7	312.5	318.3	433.1	550.9	564.0	568.3	590.1
65°	359.0	235.5	360.5	250.0	282.0	283.4	389.5	497.1	508.7	516.0	532.0
67.5°	242.7	191.9	274.7	226.7	258.7	260.2	347.4	434.6	450.6	456.4	466.6
70°	168.6	127.9	203.5	202.0	232.6	235.5	302.3	377.9	392.4	396.8	402.6
72.5°	123.5	103.2	168.6	181.7	204.9	207.9	255.8	314.0	328.5	332.9	335.8
75°	94.5	109.0	136.6	158.4	174.4	175.9	209.3	255.8	266.0	268.9	270.4
77.5°	75.6	101.7	100.3	127.9	142.4	139.5	164.2	197.7	206.4	206.4	206.4
80°	56.7	79.9	75.6	91.6	104.7	101.7	117.7	141.0	143.9	146.8	145.4
82.5°	42.2	50.9	50.9	58.1	69.8	66.9	78.5	91.6	91.6	91.6	94.5
85°	26.2	29.1	23.3	30.5	39.2	37.8	43.6	49.4	50.9	50.9	48.0
87.5°	16.0	13.1	7.3	11.6	17.4	17.4	20.3	21.8	20.3	20.3	20.3
90°	11.7	8.0	4.5	8.0	11.7	12.6	19.8	29.4	34.2	30.4	22.9
92.5°	79.3	48.6	18.0	48.6	79.3	86.9	122.2	169.3	192.8	169.0	121.3
95°	155.3	99.3	43.2	99.3	155.3	169.4	300.8	476.1	563.7	503.0	381.6
97.5°	173.6	124.2	74.8	124.2	173.6	186.0	405.2	697.4	843.5	805.1	728.5
100°	188.9	144.0	99.1	144.0	188.9	200.1	443.2	767.4	929.6	932.4	938.0
102.5°	203.6	161.7	119.9	161.7	203.6	214.1	460.7	789.4	953.9	1002.7	1100.5
105°	226.0	190.5	155.0	190.5	226.0	234.8	473.6	792.0	951.2	1060.7	1279.8
107.5°	257.2	224.1	191.1	224.1	257.2	265.4	476.0	756.7	897.1	1049.9	1355.5
110°	275.0	245.3	215.4	245.3	275.0	282.5	472.3	725.5	852.0	1022.9	1364.5



TEST NUMBER: P934789

CATALOG NUMBER: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	296.1	267.6	239.2	267.6	296.1	303.2	472.5	698.2	811.1	985.9	1335.5
115°	327.7	301.6	275.3	301.6	327.7	334.3	476.8	666.9	761.9	930.3	1267.2
117.5°	358.5	334.7	310.9	334.7	358.5	364.5	485.8	647.3	728.1	880.1	1184.1
120°	376.5	354.1	331.6	354.1	376.5	382.1	492.9	640.7	714.6	853.5	1131.2
122.5°	397.2	374.5	351.9	374.5	397.2	402.8	503.3	637.3	704.3	829.3	1079.4
125°	424.2	403.6	382.9	403.6	424.2	429.4	517.3	634.4	693.0	799.2	1011.7
127.5°	449.8	429.1	408.2	429.1	449.8	455.0	531.2	632.8	683.5	774.7	957.2
130°	466.6	444.2	421.7	444.2	466.6	472.2	541.5	633.8	679.9	761.1	923.6
132.5°	480.5	458.1	435.7	458.1	480.5	486.1	549.7	634.4	676.7	749.4	894.9
135°	497.3	476.8	456.4	476.8	497.3	502.4	558.7	633.8	671.3	732.2	854.0
137.5°	518.0	497.8	477.6	497.8	518.0	523.1	572.2	637.7	670.5	721.9	824.8
140°	532.5	513.8	495.2	513.8	532.5	537.1	580.5	638.4	667.3	711.7	800.7
142.5°	543.2	526.0	508.7	526.0	543.2	547.5	587.4	640.6	667.3	706.3	784.4
145°	559.4	544.5	529.5	544.5	559.4	563.2	596.4	640.7	662.8	694.8	758.6
147.5°	579.4	564.7	550.1	564.7	579.4	583.0	609.6	645.1	662.8	687.9	738.2
150°	590.1	576.8	563.7	576.8	590.1	593.4	616.6	647.4	662.8	684.0	726.5
152.5°	597.7	587.7	577.6	587.7	597.7	600.2	621.0	648.8	662.8	680.9	717.2
155°	613.2	605.7	598.4	605.7	613.2	615.0	630.9	652.1	662.8	677.2	706.1
157.5°	628.1	620.9	613.7	620.9	628.1	629.9	640.9	655.5	662.8	674.0	696.4
160°	635.3	629.7	624.0	629.7	635.3	636.6	645.4	657.0	662.8	672.4	691.6
162.5°	642.8	638.7	634.4	638.7	642.8	643.9	650.2	658.6	662.8	670.9	687.1
165°	653.3	649.5	645.6	649.5	653.3	654.3	657.1	660.9	662.8	668.6	680.2
167.5°	659.6	657.9	656.0	657.9	659.6	660.1	662.5	665.7	667.3	671.0	678.7
170°	666.4	664.6	662.8	664.6	666.4	666.9	667.0	667.2	667.3	671.0	678.7
172.5°	667.2	666.8	666.4	666.8	667.2	667.3	667.3	667.3	667.3	670.3	676.3
175°	671.3	671.3	671.3	671.3	671.3	671.3	670.0	668.1	667.3	669.2	673.0
177.5°	671.3	671.3	671.3	671.3	671.3	671.3	670.3	668.9	668.2	669.8	672.8
180°	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3



TEST NUMBER: P934789

CATALOG NUMBER: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1482.6	1478.2	1484.0	1468.0	1484.0	1478.2	1482.6	1492.7	1484.0	1489.8	1495.7
5°	1300.9	1293.6	1270.4	1251.5	1270.4	1293.6	1300.9	1331.4	1345.9	1372.1	1407.0
7.5°	1162.8	1157.0	1151.2	1139.5	1151.2	1157.0	1162.8	1171.5	1186.1	1209.3	1235.5
10°	1132.3	1133.7	1142.5	1141.0	1142.5	1133.7	1132.3	1129.4	1125.0	1129.4	1145.4
12.5°	1210.8	1223.8	1271.8	1268.9	1271.8	1223.8	1210.8	1152.6	1113.4	1106.1	1109.0
15°	1300.9	1305.2	1315.4	1316.9	1315.4	1305.2	1300.9	1277.6	1159.9	1109.0	1093.0
17.5°	1309.6	1311.1	1318.3	1318.3	1318.3	1311.1	1309.6	1299.4	1260.2	1191.9	1101.8
20°	1302.3	1305.2	1319.8	1322.7	1319.8	1305.2	1302.3	1289.3	1267.5	1242.7	1174.4
22.5°	1299.4	1305.2	1316.9	1315.4	1316.9	1305.2	1299.4	1279.1	1260.2	1242.7	1215.1
25°	1284.9	1284.9	1286.3	1287.8	1286.3	1284.9	1284.9	1268.9	1231.1	1226.8	1210.8
27.5°	1254.4	1257.3	1266.0	1264.5	1266.0	1257.3	1254.4	1248.6	1207.9	1203.5	1191.9
30°	1226.8	1223.8	1216.6	1210.8	1216.6	1223.8	1226.8	1218.0	1177.3	1165.7	1168.6
32.5°	1180.2	1173.0	1165.7	1161.3	1165.7	1173.0	1180.2	1177.3	1146.8	1130.8	1133.7
35°	1125.0	1126.5	1125.0	1120.6	1125.0	1126.5	1125.0	1127.9	1109.0	1094.5	1093.0
37.5°	1085.8	1088.7	1087.2	1081.4	1087.2	1088.7	1085.8	1082.9	1056.7	1052.3	1055.2
40°	1045.1	1046.5	1045.1	1040.7	1045.1	1046.5	1045.1	1039.3	1002.9	1004.4	1014.5
42.5°	1005.8	1004.4	1000.0	997.1	1000.0	1004.4	1005.8	997.1	950.6	946.2	965.1
45°	960.8	962.2	953.5	949.1	953.5	962.2	960.8	954.9	907.0	895.4	908.4
47.5°	915.7	915.7	908.4	904.1	908.4	915.7	915.7	908.4	857.6	845.9	853.2
50°	867.7	866.3	856.1	854.7	856.1	866.3	867.7	863.4	809.6	799.4	799.4
52.5°	812.5	812.5	814.0	816.9	814.0	812.5	812.5	814.0	766.0	755.8	752.9
55°	764.5	766.0	776.2	779.1	776.2	766.0	764.5	764.5	720.9	710.8	704.9
57.5°	715.1	715.1	722.4	722.4	722.4	715.1	715.1	712.2	670.1	661.3	658.4
60°	658.4	661.3	667.2	665.7	667.2	661.3	658.4	655.5	619.2	613.4	603.2
62.5°	598.8	601.7	603.2	600.3	603.2	601.7	598.8	590.1	568.3	564.0	550.9
65°	536.3	539.2	540.7	537.8	540.7	539.2	536.3	532.0	516.0	508.7	497.1
67.5°	472.4	470.9	469.5	475.3	469.5	470.9	472.4	466.6	456.4	450.6	434.6
70°	407.0	407.0	405.5	408.4	405.5	407.0	407.0	402.6	396.8	392.4	377.9
72.5°	337.2	335.8	341.6	337.2	341.6	335.8	337.2	335.8	332.9	328.5	314.0
75°	268.9	271.8	268.9	273.3	268.9	271.8	268.9	270.4	268.9	266.0	255.8
77.5°	204.9	207.9	204.9	204.9	204.9	207.9	204.9	206.4	206.4	206.4	197.7
80°	145.4	143.9	143.9	142.4	143.9	143.9	145.4	145.4	146.8	143.9	141.0
82.5°	93.0	91.6	91.6	94.5	91.6	91.6	93.0	94.5	91.6	91.6	91.6
85°	50.9	52.3	49.4	49.4	49.4	52.3	50.9	48.0	50.9	50.9	49.4
87.5°	18.9	17.4	17.4	17.4	17.4	17.4	18.9	20.3	20.3	20.3	21.8
90°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	22.9	30.4	34.2	29.4
92.5°	85.6	82.2	68.5	54.9	68.5	82.2	85.6	121.3	169.0	192.8	169.3
95°	290.6	280.3	239.1	197.8	239.1	280.3	290.6	381.6	503.0	563.7	476.1
97.5°	670.9	651.3	572.8	494.3	572.8	651.3	670.9	728.5	805.1	843.5	697.4
100°	942.2	918.8	825.2	731.7	825.2	918.8	942.2	938.0	932.4	929.6	767.4
102.5°	1173.7	1153.7	1073.7	993.5	1073.7	1153.7	1173.7	1100.5	1002.7	953.9	789.4
105°	1444.1	1433.3	1390.2	1347.2	1390.2	1433.3	1444.1	1279.8	1060.7	951.2	792.0
107.5°	1584.7	1587.3	1597.7	1608.1	1597.7	1587.3	1584.7	1355.5	1049.9	897.1	756.7
110°	1620.7	1632.0	1676.8	1721.6	1676.8	1632.0	1620.7	1364.5	1022.9	852.0	725.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1597.7	1614.9	1683.8	1752.7	1683.8	1614.9	1597.7	1335.5	985.9	811.1	698.2
115°	1519.8	1543.6	1639.2	1734.7	1639.2	1543.6	1519.8	1267.2	930.3	761.9	666.9
117.5°	1412.1	1438.6	1544.5	1650.4	1544.5	1438.6	1412.1	1184.1	880.1	728.1	647.3
120°	1339.5	1365.3	1468.2	1571.1	1468.2	1365.3	1339.5	1131.2	853.5	714.6	640.7
122.5°	1267.0	1292.4	1393.9	1495.5	1393.9	1292.4	1267.0	1079.4	829.3	704.3	637.3
125°	1171.0	1194.4	1288.0	1381.5	1288.0	1194.4	1171.0	1011.7	799.2	693.0	634.4
127.5°	1094.0	1113.8	1192.6	1271.5	1192.6	1113.8	1094.0	957.2	774.7	683.5	632.8
130°	1045.4	1063.6	1136.4	1209.3	1136.4	1063.6	1045.4	923.6	761.1	679.9	633.8
132.5°	1003.9	1020.2	1085.5	1150.8	1085.5	1020.2	1003.9	894.9	749.4	676.7	634.4
135°	945.3	959.3	1015.6	1071.9	1015.6	959.3	945.3	854.0	732.2	671.3	633.8
137.5°	902.0	913.6	959.6	1005.7	959.6	913.6	902.0	824.8	721.9	670.5	637.7
140°	867.4	878.1	921.2	964.3	921.2	878.1	867.4	800.7	711.7	667.3	638.4
142.5°	843.0	852.3	889.3	926.4	889.3	852.3	843.0	784.4	706.3	667.3	640.6
145°	806.5	813.5	841.6	869.6	841.6	813.5	806.5	758.6	694.8	662.8	640.7
147.5°	775.9	781.7	804.9	828.1	804.9	781.7	775.9	738.2	687.9	662.8	645.1
150°	758.3	763.1	781.9	800.7	781.9	763.1	758.3	726.5	684.0	662.8	647.4
152.5°	744.4	748.0	762.1	776.4	762.1	748.0	744.4	717.2	680.9	662.8	648.8
155°	727.7	730.0	739.4	748.8	739.4	730.0	727.7	706.1	677.2	662.8	652.1
157.5°	713.3	714.9	721.5	728.1	721.5	714.9	713.3	696.4	674.0	662.8	655.5
160°	706.0	707.0	710.8	714.6	710.8	707.0	706.0	691.6	672.4	662.8	657.0
162.5°	699.3	700.2	703.8	707.4	703.8	700.2	699.3	687.1	670.9	662.8	658.6
165°	689.0	689.9	693.7	697.5	693.7	689.9	689.0	680.2	668.6	662.8	660.9
167.5°	684.4	684.8	686.4	688.0	686.4	684.8	684.4	678.7	671.0	667.3	665.7
170°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	678.7	671.0	667.3	667.2
172.5°	680.8	680.4	679.1	677.6	679.1	680.4	680.8	676.3	670.3	667.3	667.3
175°	675.9	675.9	675.9	675.9	675.9	675.9	675.9	673.0	669.2	667.3	668.1
177.5°	675.0	674.6	673.0	671.3	673.0	674.6	675.0	672.8	669.8	668.2	668.9
180°	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1517.5	1524.7	1529.1	1534.9	1549.4
5°	1459.3	1486.9	1495.7	1517.5	1543.6
7.5°	1331.4	1415.7	1439.0	1491.3	1532.0
10°	1207.9	1292.2	1332.9	1456.4	1517.5
12.5°	1145.4	1194.8	1222.4	1395.4	1497.1
15°	1106.1	1141.0	1161.3	1314.0	1473.8
17.5°	1075.6	1100.3	1114.8	1234.0	1441.9
20°	1056.7	1068.3	1081.4	1175.9	1405.5
22.5°	1043.6	1036.3	1046.5	1135.2	1356.1
25°	1034.9	1007.3	1018.9	1103.2	1298.0
27.5°	1042.2	981.1	985.5	1074.1	1236.9
30°	1043.6	949.1	950.6	1043.6	1168.6
32.5°	1033.4	915.7	917.2	1005.8	1091.6
35°	1008.7	876.5	875.0	962.2	986.9
37.5°	975.3	834.3	834.3	914.3	872.1
40°	934.6	792.2	796.5	851.8	770.4
42.5°	885.2	747.1	752.9	768.9	694.8
45°	831.4	703.5	707.9	649.7	636.6
47.5°	771.8	658.4	659.9	539.2	617.7
50°	700.6	611.9	606.1	462.2	616.3
52.5°	638.1	561.1	543.6	418.6	559.6
55°	577.0	507.3	469.5	385.2	518.9
57.5°	523.3	437.5	401.2	345.9	510.2
60°	473.8	369.2	341.6	303.8	468.0
62.5°	433.1	318.3	312.5	274.7	424.4
65°	389.5	283.4	282.0	250.0	360.5
67.5°	347.4	260.2	258.7	226.7	274.7
70°	302.3	235.5	232.6	202.0	203.5
72.5°	255.8	207.9	204.9	181.7	168.6
75°	209.3	175.9	174.4	158.4	136.6
77.5°	164.2	139.5	142.4	127.9	100.3
80°	117.7	101.7	104.7	91.6	75.6
82.5°	78.5	66.9	69.8	58.1	50.9
85°	43.6	37.8	39.2	30.5	23.3
87.5°	20.3	17.4	17.4	11.6	7.3
90°	19.8	12.6	11.7	8.0	4.5
92.5°	122.2	86.9	79.3	48.6	18.0
95°	300.8	169.4	155.3	99.3	43.2
97.5°	405.2	186.0	173.6	124.2	74.8
100°	443.2	200.1	188.9	144.0	99.1
102.5°	460.7	214.1	203.6	161.7	119.9
105°	473.6	234.8	226.0	190.5	155.0
107.5°	476.0	265.4	257.2	224.1	191.1
110°	472.3	282.5	275.0	245.3	215.4



TEST NUMBER: P934789

CATALOG NUMBER: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	472.5	303.2	296.1	267.6	239.2
115°	476.8	334.3	327.7	301.6	275.3
117.5°	485.8	364.5	358.5	334.7	310.9
120°	492.9	382.1	376.5	354.1	331.6
122.5°	503.3	402.8	397.2	374.5	351.9
125°	517.3	429.4	424.2	403.6	382.9
127.5°	531.2	455.0	449.8	429.1	408.2
130°	541.5	472.2	466.6	444.2	421.7
132.5°	549.7	486.1	480.5	458.1	435.7
135°	558.7	502.4	497.3	476.8	456.4
137.5°	572.2	523.1	518.0	497.8	477.6
140°	580.5	537.1	532.5	513.8	495.2
142.5°	587.4	547.5	543.2	526.0	508.7
145°	596.4	563.2	559.4	544.5	529.5
147.5°	609.6	583.0	579.4	564.7	550.1
150°	616.6	593.4	590.1	576.8	563.7
152.5°	621.0	600.2	597.7	587.7	577.6
155°	630.9	615.0	613.2	605.7	598.4
157.5°	640.9	629.9	628.1	620.9	613.7
160°	645.4	636.6	635.3	629.7	624.0
162.5°	650.2	643.9	642.8	638.7	634.4
165°	657.1	654.3	653.3	649.5	645.6
167.5°	662.5	660.1	659.6	657.9	656.0
170°	667.0	666.9	666.4	664.6	662.8
172.5°	667.3	667.3	667.2	666.8	666.4
175°	670.0	671.3	671.3	671.3	671.3
177.5°	670.3	671.3	671.3	671.3	671.3
180°	671.3	671.3	671.3	671.3	671.3



TEST NUMBER: P934789

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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	12.42	13.26	13.39	14.25	15.55	15.24	16.09	16.22	17.07	18.38
	3H	12.89	13.65	13.88	14.65	15.97	16.59	17.34	17.57	18.34	19.66
	4H	13.09	13.80	14.09	14.80	16.13	17.03	17.74	18.03	18.74	20.08
	6H	13.20	13.86	14.21	14.87	16.21	17.31	17.97	18.32	18.97	20.32
	8H	13.20	13.83	14.22	14.85	16.19	17.38	18.01	18.40	19.03	20.37
	12H	13.17	13.77	14.20	14.79	16.15	17.42	18.02	18.44	19.03	20.40
4H	2H	13.45	14.16	14.45	15.16	16.50	15.65	16.36	16.66	17.37	18.70
	3H	14.47	15.07	15.49	16.10	17.44	17.15	17.75	18.17	18.78	20.12
	4H	14.75	15.29	15.77	16.32	17.68	17.68	18.22	18.70	19.25	20.61
	6H	14.87	15.34	15.91	16.39	17.75	18.04	18.51	19.08	19.56	20.92
	8H	14.88	15.32	15.91	16.35	17.73	18.15	18.58	19.18	19.62	21.00
	12H	14.84	15.24	15.90	16.29	17.68	18.20	18.60	19.25	19.65	21.04
8H	4H	15.20	15.64	16.23	16.68	18.06	17.80	18.24	18.84	19.28	20.66
	6H	15.46	15.82	16.52	16.90	18.28	18.24	18.60	19.29	19.68	21.06
	8H	15.50	15.82	16.57	16.89	18.28	18.39	18.70	19.45	19.77	21.17
	12H	15.49	15.77	16.56	16.83	18.27	18.48	18.76	19.55	19.82	21.26
12H	4H	15.20	15.60	16.26	16.65	18.04	17.77	18.16	18.82	19.21	20.60
	6H	15.52	15.84	16.59	16.90	18.30	18.23	18.55	19.30	19.62	21.01
	8H	15.59	15.87	16.66	16.93	18.37	18.39	18.67	19.46	19.73	21.17