

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: P934741

Luminaire Tested: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

**Test Information**

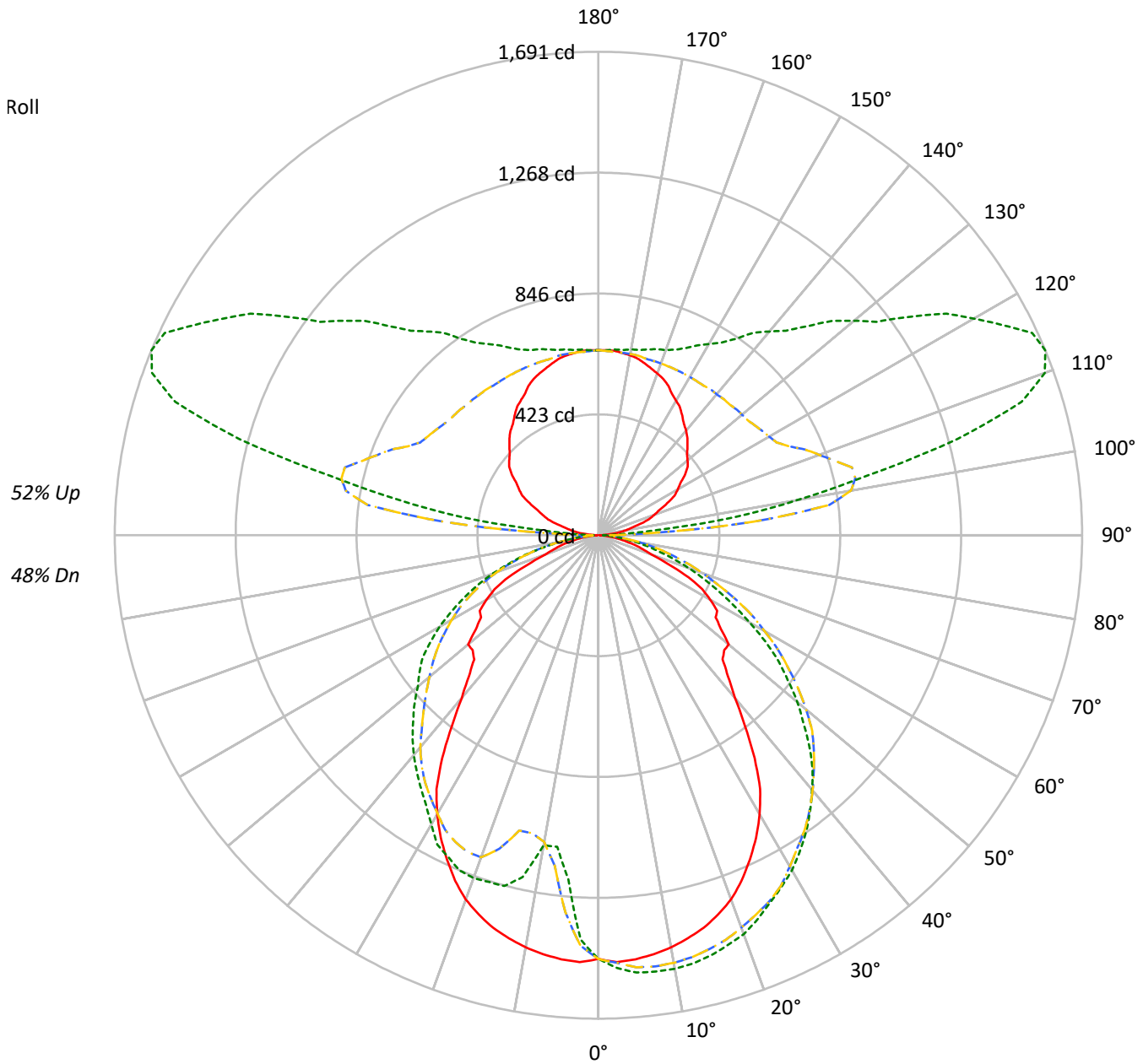
Test Method: LM-79-2019  
Report Number: P934741  
REPORT IS A COMBINATION OF REPORTS P933711 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8043.1 lumens  
Efficiency: N/A  
Efficacy: 126.5 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	50	30	10	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

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

	0°	90°	180°	270°
0°	9168	9168	9168	9168
5°	9233	9255	9233	7277
10°	9167	9116	9167	6517
15°	9065	8918	9065	7447
20°	8872	8685	8872	7463
25°	8480	8343	8480	7304
30°	7976	8060	7976	6957
35°	7106	7702	7106	6576
40°	5918	7280	5918	6288
45°	5284	6786	5284	5956
50°	5610	6197	5610	5623
55°	5273	5562	5273	5431
60°	5429	4724	5429	4974
65°	4914	3905	4914	4366
70°	3395	3112	3395	3659
75°	2966	2300	2966	2755
80°	2373	1521	2373	1656
85°	1335	806	1335	685

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8104 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.8	1.7
10°-20°	379.8	4.7
20°-30°	587.1	7.3
30°-40°	700.9	8.7
40°-50°	705.0	8.8
50°-60°	613.5	7.6
60°-70°	435.0	5.4
70°-80°	230.1	2.9
80°-90°	59.8	0.7
90°-100°	315.7	3.9
100°-110°	829.9	10.3
110°-120°	860.5	10.7
120°-130°	690.3	8.6
130°-140°	541.6	6.7
140°-150°	415.7	5.2
150°-160°	299.4	3.7
160°-170°	183.2	2.3
170°-180°	61.9	0.8
0°-30°	1100.7	13.7
0°-40°	1801.6	22.4
0°-60°	3120.1	38.8
0°-90°	3845.0	47.8
90°-120°	2006.1	24.9
90°-150°	3653.7	45.4
90°-180°	4198.0	52.2
0°-180°	8043.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1482	1482	1482	1482	1482	
5°	1489	1535	1489	1207	1489	141
15°	1422	1521	1422	1270	1422	400
25°	1252	1419	1252	1242	1252	575
35°	952	1266	952	1081	952	589
45°	614	1043	614	916	614	492
55°	500	770	500	752	500	460
65°	348	464	348	519	348	332
75°	132	220	132	264	132	139
85°	22	56	22	48	22	30
90°	4	16	4	16	4	5
95°	42	191	42	191	42	46
105°	150	1300	150	1300	150	159
115°	266	1673	266	1673	266	262
125°	369	1333	369	1333	369	328
135°	440	1034	440	1034	440	341
145°	511	839	511	839	511	320
155°	577	722	577	722	577	265
165°	623	673	623	673	623	176
175°	648	652	648	652	648	61
180°	648	648	648	648	648	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1494.6	1494.6	1503.0	1505.8	1505.8	1501.6	1497.4	1501.6	1514.2	1518.4	1517.0
5°	1489.0	1500.2	1515.6	1518.4	1521.2	1519.8	1517.0	1519.8	1533.9	1536.7	1538.1
7.5°	1477.8	1498.8	1518.4	1522.6	1526.8	1522.6	1521.2	1524.0	1538.1	1540.9	1540.9
10°	1463.7	1493.2	1515.6	1518.4	1522.6	1518.4	1518.4	1524.0	1538.1	1540.9	1542.3
12.5°	1444.1	1484.8	1505.8	1508.6	1514.2	1512.8	1511.4	1517.0	1531.0	1533.9	1533.9
15°	1421.7	1469.4	1489.0	1491.8	1501.6	1498.8	1498.8	1504.4	1519.8	1524.0	1522.6
17.5°	1390.8	1449.7	1472.2	1476.4	1483.4	1482.0	1483.4	1489.0	1503.0	1505.8	1507.2
20°	1355.8	1423.1	1449.7	1453.9	1460.9	1460.9	1460.9	1468.0	1482.0	1487.6	1487.6
22.5°	1308.1	1395.0	1423.1	1425.9	1434.3	1434.3	1437.1	1446.9	1459.5	1460.9	1460.9
25°	1252.0	1364.2	1388.0	1396.5	1404.9	1409.1	1413.3	1418.9	1423.1	1421.7	1423.1
27.5°	1193.2	1324.9	1355.8	1361.4	1372.6	1376.8	1382.4	1383.8	1385.2	1389.4	1386.6
30°	1127.3	1270.3	1316.5	1322.1	1340.4	1343.2	1337.6	1340.4	1347.4	1350.2	1353.0
32.5°	1052.9	1188.9	1275.9	1288.5	1305.3	1296.9	1295.5	1299.7	1310.9	1310.9	1313.7
35°	952.0	1125.9	1238.0	1249.2	1261.9	1252.0	1257.6	1259.0	1266.1	1270.3	1268.9
37.5°	841.2	1071.2	1198.8	1207.2	1217.0	1204.4	1212.8	1217.0	1222.6	1219.8	1219.8
40°	743.1	985.6	1152.5	1158.1	1166.5	1156.7	1165.1	1167.9	1170.7	1167.9	1166.5
42.5°	670.2	891.7	1103.4	1110.4	1104.8	1111.8	1114.6	1120.2	1116.0	1110.4	1110.4
45°	614.1	866.5	1050.1	1058.6	1050.1	1061.4	1065.6	1065.6	1052.9	1050.1	1048.7
47.5°	595.9	816.0	996.9	996.9	992.7	1006.7	1013.7	1003.9	991.3	987.0	987.0
50°	594.5	759.9	924.0	918.3	938.0	954.8	947.8	938.0	928.2	912.7	912.7
52.5°	539.8	691.2	830.0	851.0	881.9	891.7	880.5	870.7	853.9	846.8	841.2
55°	500.5	619.7	744.5	786.6	818.8	831.4	810.4	800.6	775.3	771.1	768.3
57.5°	492.1	516.0	666.0	719.3	758.5	757.1	744.5	726.3	705.2	701.0	699.6
60°	451.5	372.9	581.9	644.9	685.6	681.4	670.2	653.4	633.7	630.9	628.1
62.5°	409.4	270.6	486.5	558.0	615.5	614.1	604.3	579.1	565.0	558.0	552.4
65°	347.7	227.1	346.3	464.1	546.8	549.6	528.6	510.3	494.9	486.5	485.1
67.5°	265.0	185.1	234.1	387.0	480.9	478.1	451.5	443.1	423.4	419.2	410.8
70°	196.3	123.4	162.6	314.1	416.4	409.4	388.4	378.6	360.3	350.5	344.9
72.5°	162.6	99.5	119.2	244.0	350.5	342.1	323.9	312.7	297.2	288.8	283.2
75°	131.8	105.2	91.1	180.9	284.6	279.0	262.2	251.0	238.4	227.1	228.5
77.5°	96.7	98.1	72.9	133.2	225.7	217.3	207.5	193.5	187.9	176.7	176.7
80°	72.9	77.1	54.7	91.1	162.6	162.6	154.2	144.4	134.6	129.0	129.0
82.5°	49.1	49.1	40.7	57.5	110.8	106.6	100.9	98.1	92.5	89.7	89.7
85°	22.4	28.0	25.2	35.1	60.3	63.1	63.1	60.3	58.9	56.1	57.5
87.5°	7.0	12.6	15.4	19.6	30.8	32.2	33.6	33.6	33.6	35.1	35.1
90°	4.3	7.8	11.3	12.2	19.1	28.3	33.0	29.3	22.1	16.5	16.5
92.5°	17.4	46.9	76.5	83.8	117.9	163.3	186.0	163.0	117.0	82.5	79.3
95°	41.7	95.8	149.8	163.4	290.1	459.2	543.7	485.2	368.1	280.3	270.4
97.5°	72.2	119.8	167.5	179.5	390.9	672.7	813.7	776.6	702.7	647.2	628.2
100°	95.6	138.9	182.2	193.0	427.5	740.3	896.7	899.4	904.8	908.8	886.3
102.5°	115.6	156.0	196.4	206.5	444.4	761.5	920.1	967.2	1061.5	1132.2	1112.9
105°	149.6	183.8	218.0	226.5	456.8	763.9	917.5	1023.1	1234.5	1393.0	1382.6
107.5°	184.3	216.2	248.1	256.0	459.1	729.9	865.4	1012.8	1307.6	1528.6	1531.1
110°	207.8	236.6	265.3	272.5	455.6	699.8	821.9	986.7	1316.3	1563.4	1574.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	230.8	258.2	285.6	292.5	455.8	673.5	782.3	951.0	1288.2	1541.1	1557.8
115°	265.5	290.9	316.1	322.5	460.0	643.3	735.0	897.4	1222.3	1466.0	1489.0
117.5°	299.9	322.8	345.8	351.6	468.6	624.4	702.3	849.0	1142.2	1362.1	1387.7
120°	319.9	341.5	363.1	368.6	475.5	618.0	689.3	823.3	1091.2	1292.1	1317.0
122.5°	339.5	361.3	383.1	388.6	485.5	614.8	679.3	799.9	1041.2	1222.1	1246.6
125°	369.4	389.3	409.2	414.2	498.9	612.0	668.5	770.9	975.9	1129.6	1152.1
127.5°	393.8	413.9	433.9	438.9	512.4	610.4	659.3	747.3	923.3	1055.3	1074.4
130°	406.8	428.5	450.1	455.5	522.3	611.4	655.9	734.2	890.9	1008.4	1025.9
132.5°	420.2	441.9	463.5	468.9	530.3	612.0	652.8	722.9	863.2	968.4	984.1
135°	440.2	460.0	479.7	484.6	539.0	611.4	647.6	706.3	823.8	911.8	925.4
137.5°	460.7	480.2	499.7	504.6	551.9	615.1	646.7	696.4	795.6	870.1	881.2
140°	477.6	495.6	513.6	518.1	560.0	615.8	643.6	686.5	772.3	836.7	847.0
142.5°	490.7	507.4	524.0	528.1	566.6	617.9	643.6	681.3	756.6	813.2	822.2
145°	510.7	525.2	539.6	543.3	575.3	618.0	639.3	670.2	731.8	778.0	784.7
147.5°	530.6	544.7	558.9	562.4	588.0	622.2	639.3	663.5	712.1	748.4	754.0
150°	543.7	556.4	569.2	572.4	594.8	624.5	639.3	659.8	700.7	731.5	736.1
152.5°	557.2	566.9	576.5	579.0	599.1	625.9	639.3	656.8	691.8	718.0	721.5
155°	577.2	584.3	591.5	593.3	608.6	629.1	639.3	653.3	681.1	702.0	704.2
157.5°	591.9	599.0	605.9	607.7	618.2	632.3	639.3	650.2	671.8	688.0	689.6
160°	602.0	607.4	612.8	614.1	622.5	633.7	639.3	648.6	667.1	681.0	682.0
162.5°	612.0	616.1	620.1	621.1	627.2	635.3	639.3	647.2	662.8	674.6	675.4
165°	622.8	626.5	630.2	631.1	633.8	637.5	639.3	644.9	656.2	664.6	665.5
167.5°	632.8	634.6	636.3	636.7	639.1	642.1	643.6	647.3	654.7	660.2	660.6
170°	639.3	641.1	642.8	643.3	643.4	643.5	643.6	647.3	654.7	660.2	660.2
172.5°	642.8	643.2	643.5	643.6	643.6	643.6	643.6	646.5	652.3	656.7	656.4
175°	647.6	647.6	647.6	647.6	646.3	644.5	643.6	645.5	649.2	652.0	652.0
177.5°	647.6	647.6	647.6	647.6	646.5	645.2	644.6	646.1	649.0	651.1	650.7
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1519.8	1515.6	1519.8	1517.0	1518.4	1514.2	1501.6	1497.4	1501.6	1505.8	1505.8
5°	1538.1	1535.3	1538.1	1538.1	1536.7	1533.9	1519.8	1517.0	1519.8	1521.2	1518.4
7.5°	1543.7	1539.5	1543.7	1540.9	1540.9	1538.1	1524.0	1521.2	1522.6	1526.8	1522.6
10°	1543.7	1539.5	1543.7	1542.3	1540.9	1538.1	1524.0	1518.4	1518.4	1522.6	1518.4
12.5°	1536.7	1533.9	1536.7	1533.9	1533.9	1531.0	1517.0	1511.4	1512.8	1514.2	1508.6
15°	1525.4	1521.2	1525.4	1522.6	1524.0	1519.8	1504.4	1498.8	1498.8	1501.6	1491.8
17.5°	1508.6	1503.0	1508.6	1507.2	1505.8	1503.0	1489.0	1483.4	1482.0	1483.4	1476.4
20°	1489.0	1484.8	1489.0	1487.6	1487.6	1482.0	1468.0	1460.9	1460.9	1460.9	1453.9
22.5°	1458.1	1453.9	1458.1	1460.9	1460.9	1459.5	1446.9	1437.1	1434.3	1434.3	1425.9
25°	1423.1	1418.9	1423.1	1423.1	1421.7	1423.1	1418.9	1413.3	1409.1	1404.9	1396.5
27.5°	1389.4	1386.6	1389.4	1386.6	1389.4	1385.2	1383.8	1382.4	1376.8	1372.6	1361.4
30°	1355.8	1353.0	1355.8	1353.0	1350.2	1347.4	1340.4	1337.6	1343.2	1340.4	1322.1
32.5°	1313.7	1310.9	1313.7	1313.7	1310.9	1310.9	1299.7	1295.5	1296.9	1305.3	1288.5
35°	1270.3	1266.1	1270.3	1268.9	1270.3	1266.1	1259.0	1257.6	1252.0	1261.9	1249.2
37.5°	1219.8	1215.6	1219.8	1219.8	1219.8	1222.6	1217.0	1212.8	1204.4	1217.0	1207.2
40°	1167.9	1162.3	1167.9	1166.5	1167.9	1170.7	1167.9	1165.1	1156.7	1166.5	1158.1
42.5°	1109.0	1107.6	1109.0	1110.4	1110.4	1116.0	1120.2	1114.6	1111.8	1104.8	1110.4
45°	1045.9	1043.1	1045.9	1048.7	1050.1	1052.9	1065.6	1065.6	1061.4	1050.1	1058.6
47.5°	978.6	971.6	978.6	987.0	987.0	991.3	1003.9	1013.7	1006.7	992.7	996.9
50°	907.1	908.5	907.1	912.7	912.7	928.2	938.0	947.8	954.8	938.0	918.3
52.5°	837.0	835.6	837.0	841.2	846.8	853.9	870.7	880.5	891.7	881.9	851.0
55°	766.9	769.7	766.9	768.3	771.1	775.3	800.6	810.4	831.4	818.8	786.6
57.5°	696.8	692.6	696.8	699.6	701.0	705.2	726.3	744.5	757.1	758.5	719.3
60°	615.5	609.9	615.5	628.1	630.9	633.7	653.4	670.2	681.4	685.6	644.9
62.5°	544.0	534.2	544.0	552.4	558.0	565.0	579.1	604.3	614.1	615.5	558.0
65°	468.3	464.1	468.3	485.1	486.5	494.9	510.3	528.6	549.6	546.8	464.1
67.5°	399.6	399.6	399.6	410.8	419.2	423.4	443.1	451.5	478.1	480.9	387.0
70°	336.5	335.1	336.5	344.9	350.5	360.3	378.6	388.4	409.4	416.4	314.1
72.5°	276.2	274.8	276.2	283.2	288.8	297.2	312.7	323.9	342.1	350.5	244.0
75°	222.9	220.1	222.9	228.5	227.1	238.4	251.0	262.2	279.0	284.6	180.9
77.5°	171.1	171.1	171.1	176.7	176.7	187.9	193.5	207.5	217.3	225.7	133.2
80°	127.6	126.2	127.6	129.0	129.0	134.6	144.4	154.2	162.6	162.6	91.1
82.5°	89.7	86.9	89.7	89.7	89.7	92.5	98.1	100.9	106.6	110.8	57.5
85°	56.1	56.1	56.1	57.5	56.1	58.9	60.3	63.1	63.1	60.3	35.1
87.5°	36.5	35.1	36.5	35.1	35.1	33.6	33.6	33.6	32.2	30.8	19.6
90°	16.5	16.5	16.5	16.5	16.5	22.1	29.3	33.0	28.3	19.1	12.2
92.5°	66.1	53.0	66.1	79.3	82.5	117.0	163.0	186.0	163.3	117.9	83.8
95°	230.6	190.8	230.6	270.4	280.3	368.1	485.2	543.7	459.2	290.1	163.4
97.5°	552.5	476.8	552.5	628.2	647.2	702.7	776.6	813.7	672.7	390.9	179.5
100°	796.0	705.8	796.0	886.3	908.8	904.8	899.4	896.7	740.3	427.5	193.0
102.5°	1035.7	958.4	1035.7	1112.9	1132.2	1061.5	967.2	920.1	761.5	444.4	206.5
105°	1341.0	1299.5	1341.0	1382.6	1393.0	1234.5	1023.1	917.5	763.9	456.8	226.5
107.5°	1541.1	1551.1	1541.1	1531.1	1528.6	1307.6	1012.8	865.4	729.9	459.1	256.0
110°	1617.4	1660.7	1617.4	1574.2	1563.4	1316.3	986.7	821.9	699.8	455.6	272.5





TEST NUMBER: P934741

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1624.2	1690.7	1624.2	1557.8	1541.1	1288.2	951.0	782.3	673.5	455.8	292.5
115°	1581.1	1673.3	1581.1	1489.0	1466.0	1222.3	897.4	735.0	643.3	460.0	322.5
117.5°	1489.8	1592.0	1489.8	1387.7	1362.1	1142.2	849.0	702.3	624.4	468.6	351.6
120°	1416.3	1515.5	1416.3	1317.0	1292.1	1091.2	823.3	689.3	618.0	475.5	368.6
122.5°	1344.6	1442.5	1344.6	1246.6	1222.1	1041.2	799.9	679.3	614.8	485.5	388.6
125°	1242.4	1332.6	1242.4	1152.1	1129.6	975.9	770.9	668.5	612.0	498.9	414.2
127.5°	1150.4	1226.5	1150.4	1074.4	1055.3	923.3	747.3	659.3	610.4	512.4	438.9
130°	1096.2	1166.5	1096.2	1025.9	1008.4	890.9	734.2	655.9	611.4	522.3	455.5
132.5°	1047.1	1110.1	1047.1	984.1	968.4	863.2	722.9	652.8	612.0	530.3	468.9
135°	979.7	1034.0	979.7	925.4	911.8	823.8	706.3	647.6	611.4	539.0	484.6
137.5°	925.6	970.1	925.6	881.2	870.1	795.6	696.4	646.7	615.1	551.9	504.6
140°	888.6	930.1	888.6	847.0	836.7	772.3	686.5	643.6	615.8	560.0	518.1
142.5°	857.9	893.6	857.9	822.2	813.2	756.6	681.3	643.6	617.9	566.6	528.1
145°	811.8	838.8	811.8	784.7	778.0	731.8	670.2	639.3	618.0	575.3	543.3
147.5°	776.4	798.8	776.4	754.0	748.4	712.1	663.5	639.3	622.2	588.0	562.4
150°	754.2	772.3	754.2	736.1	731.5	700.7	659.8	639.3	624.5	594.8	572.4
152.5°	735.1	748.9	735.1	721.5	718.0	691.8	656.8	639.3	625.9	599.1	579.0
155°	713.3	722.3	713.3	704.2	702.0	681.1	653.3	639.3	629.1	608.6	593.3
157.5°	696.0	702.3	696.0	689.6	688.0	671.8	650.2	639.3	632.3	618.2	607.7
160°	685.6	689.3	685.6	682.0	681.0	667.1	648.6	639.3	633.7	622.5	614.1
162.5°	678.9	682.3	678.9	675.4	674.6	662.8	647.2	639.3	635.3	627.2	621.1
165°	669.2	672.8	669.2	665.5	664.6	656.2	644.9	639.3	637.5	633.8	631.1
167.5°	662.1	663.6	662.1	660.6	660.2	654.7	647.3	643.6	642.1	639.1	636.7
170°	660.2	660.2	660.2	660.2	660.2	654.7	647.3	643.6	643.5	643.4	643.3
172.5°	655.0	653.6	655.0	656.4	656.7	652.3	646.5	643.6	643.6	643.6	643.6
175°	652.0	652.0	652.0	652.0	652.0	649.2	645.5	643.6	644.5	646.3	647.6
177.5°	649.2	647.6	649.2	650.7	651.1	649.0	646.1	644.6	645.2	646.5	647.6
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



TEST NUMBER: P934741

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1503.0	1494.6	1494.6	1480.6	1475.0	1470.8	1463.7	1442.7	1437.1	1431.5	1439.9
5°	1515.6	1500.2	1489.0	1463.7	1442.7	1434.3	1407.7	1357.2	1323.5	1298.3	1284.3
7.5°	1518.4	1498.8	1477.8	1438.5	1388.0	1365.6	1284.3	1191.8	1166.5	1144.1	1130.1
10°	1515.6	1493.2	1463.7	1404.9	1285.7	1246.4	1165.1	1104.8	1089.4	1085.2	1089.4
12.5°	1505.8	1484.8	1444.1	1346.0	1179.1	1152.5	1104.8	1069.8	1067.0	1074.0	1111.8
15°	1489.0	1469.4	1421.7	1267.5	1120.2	1100.6	1067.0	1054.3	1069.8	1118.8	1232.4
17.5°	1472.2	1449.7	1390.8	1190.3	1075.4	1061.4	1037.5	1062.8	1149.7	1215.6	1253.4
20°	1449.7	1423.1	1355.8	1134.3	1043.1	1030.5	1019.3	1132.9	1198.8	1222.6	1243.6
22.5°	1423.1	1395.0	1308.1	1095.0	1009.5	999.7	1006.7	1172.1	1198.8	1215.6	1233.8
25°	1388.0	1364.2	1252.0	1064.2	982.8	971.6	998.3	1167.9	1183.3	1187.5	1224.0
27.5°	1355.8	1324.9	1193.2	1036.1	950.6	946.4	1005.3	1149.7	1160.9	1165.1	1204.4
30°	1316.5	1270.3	1127.3	1006.7	916.9	915.5	1006.7	1127.3	1124.5	1135.7	1174.9
32.5°	1275.9	1188.9	1052.9	970.2	884.7	883.3	996.9	1093.6	1090.8	1106.2	1135.7
35°	1238.0	1125.9	952.0	928.2	844.0	845.4	973.0	1054.3	1055.8	1069.8	1088.0
37.5°	1198.8	1071.2	841.2	881.9	804.8	804.8	940.8	1017.9	1015.1	1019.3	1044.5
40°	1152.5	985.6	743.1	821.6	768.3	764.1	901.5	978.6	968.8	967.4	1002.5
42.5°	1103.4	891.7	670.2	741.7	726.3	720.7	853.9	931.0	912.7	916.9	961.8
45°	1050.1	866.5	614.1	626.7	682.8	678.6	802.0	876.3	863.7	874.9	921.2
47.5°	996.9	816.0	595.9	520.2	636.5	635.1	744.5	823.0	816.0	827.2	876.3
50°	924.0	759.9	594.5	445.9	584.7	590.3	675.8	771.1	771.1	780.9	832.8
52.5°	830.0	691.2	539.8	403.8	524.4	541.2	615.5	726.3	729.1	738.9	785.2
55°	744.5	619.7	500.5	371.5	452.9	489.3	556.6	680.0	685.6	695.4	737.5
57.5°	666.0	516.0	492.1	333.7	387.0	422.0	504.7	635.1	637.9	646.3	687.0
60°	581.9	372.9	451.5	293.0	329.5	356.1	457.1	581.9	591.7	597.3	632.3
62.5°	486.5	270.6	409.4	265.0	301.4	307.1	417.8	531.4	544.0	548.2	569.2
65°	346.3	227.1	347.7	241.2	272.0	273.4	375.8	479.5	490.7	497.7	513.2
67.5°	234.1	185.1	265.0	218.7	249.6	251.0	335.1	419.2	434.6	440.2	450.1
70°	162.6	123.4	196.3	194.9	224.3	227.1	291.6	364.5	378.6	382.8	388.4
72.5°	119.2	99.5	162.6	175.3	197.7	200.5	246.8	302.8	316.9	321.1	323.9
75°	91.1	105.2	131.8	152.8	168.2	169.6	201.9	246.8	256.6	259.4	260.8
77.5°	72.9	98.1	96.7	123.4	137.4	134.6	158.4	190.7	199.1	199.1	199.1
80°	54.7	77.1	72.9	88.3	100.9	98.1	113.6	136.0	138.8	141.6	140.2
82.5°	40.7	49.1	49.1	56.1	67.3	64.5	75.7	88.3	88.3	88.3	91.1
85°	25.2	28.0	22.4	29.4	37.9	36.5	42.1	47.7	49.1	49.1	46.3
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°	11.3	7.8	4.3	7.8	11.3	12.2	19.1	28.3	33.0	29.3	22.1
92.5°	76.5	46.9	17.4	46.9	76.5	83.8	117.9	163.3	186.0	163.0	117.0
95°	149.8	95.8	41.7	95.8	149.8	163.4	290.1	459.2	543.7	485.2	368.1
97.5°	167.5	119.8	72.2	119.8	167.5	179.5	390.9	672.7	813.7	776.6	702.7
100°	182.2	138.9	95.6	138.9	182.2	193.0	427.5	740.3	896.7	899.4	904.8
102.5°	196.4	156.0	115.6	156.0	196.4	206.5	444.4	761.5	920.1	967.2	1061.5
105°	218.0	183.8	149.6	183.8	218.0	226.5	456.8	763.9	917.5	1023.1	1234.5
107.5°	248.1	216.2	184.3	216.2	248.1	256.0	459.1	729.9	865.4	1012.8	1307.6
110°	265.3	236.6	207.8	236.6	265.3	272.5	455.6	699.8	821.9	986.7	1316.3



TEST NUMBER: P934741

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	285.6	258.2	230.8	258.2	285.6	292.5	455.8	673.5	782.3	951.0	1288.2
115°	316.1	290.9	265.5	290.9	316.1	322.5	460.0	643.3	735.0	897.4	1222.3
117.5°	345.8	322.8	299.9	322.8	345.8	351.6	468.6	624.4	702.3	849.0	1142.2
120°	363.1	341.5	319.9	341.5	363.1	368.6	475.5	618.0	689.3	823.3	1091.2
122.5°	383.1	361.3	339.5	361.3	383.1	388.6	485.5	614.8	679.3	799.9	1041.2
125°	409.2	389.3	369.4	389.3	409.2	414.2	498.9	612.0	668.5	770.9	975.9
127.5°	433.9	413.9	393.8	413.9	433.9	438.9	512.4	610.4	659.3	747.3	923.3
130°	450.1	428.5	406.8	428.5	450.1	455.5	522.3	611.4	655.9	734.2	890.9
132.5°	463.5	441.9	420.2	441.9	463.5	468.9	530.3	612.0	652.8	722.9	863.2
135°	479.7	460.0	440.2	460.0	479.7	484.6	539.0	611.4	647.6	706.3	823.8
137.5°	499.7	480.2	460.7	480.2	499.7	504.6	551.9	615.1	646.7	696.4	795.6
140°	513.6	495.6	477.6	495.6	513.6	518.1	560.0	615.8	643.6	686.5	772.3
142.5°	524.0	507.4	490.7	507.4	524.0	528.1	566.6	617.9	643.6	681.3	756.6
145°	539.6	525.2	510.7	525.2	539.6	543.3	575.3	618.0	639.3	670.2	731.8
147.5°	558.9	544.7	530.6	544.7	558.9	562.4	588.0	622.2	639.3	663.5	712.1
150°	569.2	556.4	543.7	556.4	569.2	572.4	594.8	624.5	639.3	659.8	700.7
152.5°	576.5	566.9	557.2	566.9	576.5	579.0	599.1	625.9	639.3	656.8	691.8
155°	591.5	584.3	577.2	584.3	591.5	593.3	608.6	629.1	639.3	653.3	681.1
157.5°	605.9	599.0	591.9	599.0	605.9	607.7	618.2	632.3	639.3	650.2	671.8
160°	612.8	607.4	602.0	607.4	612.8	614.1	622.5	633.7	639.3	648.6	667.1
162.5°	620.1	616.1	612.0	616.1	620.1	621.1	627.2	635.3	639.3	647.2	662.8
165°	630.2	626.5	622.8	626.5	630.2	631.1	633.8	637.5	639.3	644.9	656.2
167.5°	636.3	634.6	632.8	634.6	636.3	636.7	639.1	642.1	643.6	647.3	654.7
170°	642.8	641.1	639.3	641.1	642.8	643.3	643.4	643.5	643.6	647.3	654.7
172.5°	643.5	643.2	642.8	643.2	643.5	643.6	643.6	643.6	643.6	646.5	652.3
175°	647.6	647.6	647.6	647.6	647.6	647.6	646.3	644.5	643.6	645.5	649.2
177.5°	647.6	647.6	647.6	647.6	647.6	647.6	646.5	645.2	644.6	646.1	649.0
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



TEST NUMBER: P934741

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1430.1	1425.9	1431.5	1416.1	1431.5	1425.9	1430.1	1439.9	1431.5	1437.1	1442.7
5°	1254.8	1247.8	1225.4	1207.2	1225.4	1247.8	1254.8	1284.3	1298.3	1323.5	1357.2
7.5°	1121.6	1116.0	1110.4	1099.2	1110.4	1116.0	1121.6	1130.1	1144.1	1166.5	1191.8
10°	1092.2	1093.6	1102.0	1100.6	1102.0	1093.6	1092.2	1089.4	1085.2	1089.4	1104.8
12.5°	1167.9	1180.5	1226.8	1224.0	1226.8	1180.5	1167.9	1111.8	1074.0	1067.0	1069.8
15°	1254.8	1259.0	1268.9	1270.3	1268.9	1259.0	1254.8	1232.4	1118.8	1069.8	1054.3
17.5°	1263.3	1264.7	1271.7	1271.7	1271.7	1264.7	1263.3	1253.4	1215.6	1149.7	1062.8
20°	1256.2	1259.0	1273.1	1275.9	1273.1	1259.0	1256.2	1243.6	1222.6	1198.8	1132.9
22.5°	1253.4	1259.0	1270.3	1268.9	1270.3	1259.0	1253.4	1233.8	1215.6	1198.8	1172.1
25°	1239.4	1239.4	1240.8	1242.2	1240.8	1239.4	1239.4	1224.0	1187.5	1183.3	1167.9
27.5°	1210.0	1212.8	1221.2	1219.8	1221.2	1212.8	1210.0	1204.4	1165.1	1160.9	1149.7
30°	1183.3	1180.5	1173.5	1167.9	1173.5	1180.5	1183.3	1174.9	1135.7	1124.5	1127.3
32.5°	1138.5	1131.5	1124.5	1120.2	1124.5	1131.5	1138.5	1135.7	1106.2	1090.8	1093.6
35°	1085.2	1086.6	1085.2	1081.0	1085.2	1086.6	1085.2	1088.0	1069.8	1055.8	1054.3
37.5°	1047.3	1050.1	1048.7	1043.1	1048.7	1050.1	1047.3	1044.5	1019.3	1015.1	1017.9
40°	1008.1	1009.5	1008.1	1003.9	1008.1	1009.5	1008.1	1002.5	967.4	968.8	978.6
42.5°	970.2	968.8	964.6	961.8	964.6	968.8	970.2	961.8	916.9	912.7	931.0
45°	926.8	928.2	919.8	915.5	919.8	928.2	926.8	921.2	874.9	863.7	876.3
47.5°	883.3	883.3	876.3	872.1	876.3	883.3	883.3	876.3	827.2	816.0	823.0
50°	837.0	835.6	825.8	824.4	825.8	835.6	837.0	832.8	780.9	771.1	771.1
52.5°	783.8	783.8	785.2	788.0	785.2	783.8	783.8	785.2	738.9	729.1	726.3
55°	737.5	738.9	748.7	751.5	748.7	738.9	737.5	737.5	695.4	685.6	680.0
57.5°	689.8	689.8	696.8	696.8	696.8	689.8	689.8	687.0	646.3	637.9	635.1
60°	635.1	637.9	643.5	642.1	643.5	637.9	635.1	632.3	597.3	591.7	581.9
62.5°	577.6	580.5	581.9	579.1	581.9	580.5	577.6	569.2	548.2	544.0	531.4
65°	517.4	520.2	521.6	518.8	521.6	520.2	517.4	513.2	497.7	490.7	479.5
67.5°	455.7	454.3	452.9	458.5	452.9	454.3	455.7	450.1	440.2	434.6	419.2
70°	392.6	392.6	391.2	394.0	391.2	392.6	392.6	388.4	382.8	378.6	364.5
72.5°	325.3	323.9	329.5	325.3	329.5	323.9	325.3	323.9	321.1	316.9	302.8
75°	259.4	262.2	259.4	263.6	259.4	262.2	259.4	260.8	259.4	256.6	246.8
77.5°	197.7	200.5	197.7	197.7	197.7	200.5	197.7	199.1	199.1	199.1	190.7
80°	140.2	138.8	138.8	137.4	138.8	138.8	140.2	140.2	141.6	138.8	136.0
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°	49.1	50.5	47.7	47.7	47.7	50.5	49.1	46.3	49.1	49.1	47.7
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°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	22.1	29.3	33.0	28.3
92.5°	82.5	79.3	66.1	53.0	66.1	79.3	82.5	117.0	163.0	186.0	163.3
95°	280.3	270.4	230.6	190.8	230.6	270.4	280.3	368.1	485.2	543.7	459.2
97.5°	647.2	628.2	552.5	476.8	552.5	628.2	647.2	702.7	776.6	813.7	672.7
100°	908.8	886.3	796.0	705.8	796.0	886.3	908.8	904.8	899.4	896.7	740.3
102.5°	1132.2	1112.9	1035.7	958.4	1035.7	1112.9	1132.2	1061.5	967.2	920.1	761.5
105°	1393.0	1382.6	1341.0	1299.5	1341.0	1382.6	1393.0	1234.5	1023.1	917.5	763.9
107.5°	1528.6	1531.1	1541.1	1551.1	1541.1	1531.1	1528.6	1307.6	1012.8	865.4	729.9
110°	1563.4	1574.2	1617.4	1660.7	1617.4	1574.2	1563.4	1316.3	986.7	821.9	699.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1541.1	1557.8	1624.2	1690.7	1624.2	1557.8	1541.1	1288.2	951.0	782.3	673.5
115°	1466.0	1489.0	1581.1	1673.3	1581.1	1489.0	1466.0	1222.3	897.4	735.0	643.3
117.5°	1362.1	1387.7	1489.8	1592.0	1489.8	1387.7	1362.1	1142.2	849.0	702.3	624.4
120°	1292.1	1317.0	1416.3	1515.5	1416.3	1317.0	1292.1	1091.2	823.3	689.3	618.0
122.5°	1222.1	1246.6	1344.6	1442.5	1344.6	1246.6	1222.1	1041.2	799.9	679.3	614.8
125°	1129.6	1152.1	1242.4	1332.6	1242.4	1152.1	1129.6	975.9	770.9	668.5	612.0
127.5°	1055.3	1074.4	1150.4	1226.5	1150.4	1074.4	1055.3	923.3	747.3	659.3	610.4
130°	1008.4	1025.9	1096.2	1166.5	1096.2	1025.9	1008.4	890.9	734.2	655.9	611.4
132.5°	968.4	984.1	1047.1	1110.1	1047.1	984.1	968.4	863.2	722.9	652.8	612.0
135°	911.8	925.4	979.7	1034.0	979.7	925.4	911.8	823.8	706.3	647.6	611.4
137.5°	870.1	881.2	925.6	970.1	925.6	881.2	870.1	795.6	696.4	646.7	615.1
140°	836.7	847.0	888.6	930.1	888.6	847.0	836.7	772.3	686.5	643.6	615.8
142.5°	813.2	822.2	857.9	893.6	857.9	822.2	813.2	756.6	681.3	643.6	617.9
145°	778.0	784.7	811.8	838.8	811.8	784.7	778.0	731.8	670.2	639.3	618.0
147.5°	748.4	754.0	776.4	798.8	776.4	754.0	748.4	712.1	663.5	639.3	622.2
150°	731.5	736.1	754.2	772.3	754.2	736.1	731.5	700.7	659.8	639.3	624.5
152.5°	718.0	721.5	735.1	748.9	735.1	721.5	718.0	691.8	656.8	639.3	625.9
155°	702.0	704.2	713.3	722.3	713.3	704.2	702.0	681.1	653.3	639.3	629.1
157.5°	688.0	689.6	696.0	702.3	696.0	689.6	688.0	671.8	650.2	639.3	632.3
160°	681.0	682.0	685.6	689.3	685.6	682.0	681.0	667.1	648.6	639.3	633.7
162.5°	674.6	675.4	678.9	682.3	678.9	675.4	674.6	662.8	647.2	639.3	635.3
165°	664.6	665.5	669.2	672.8	669.2	665.5	664.6	656.2	644.9	639.3	637.5
167.5°	660.2	660.6	662.1	663.6	662.1	660.6	660.2	654.7	647.3	643.6	642.1
170°	660.2	660.2	660.2	660.2	660.2	660.2	660.2	654.7	647.3	643.6	643.5
172.5°	656.7	656.4	655.0	653.6	655.0	656.4	656.7	652.3	646.5	643.6	643.6
175°	652.0	652.0	652.0	652.0	652.0	652.0	652.0	649.2	645.5	643.6	644.5
177.5°	651.1	650.7	649.2	647.6	649.2	650.7	651.1	649.0	646.1	644.6	645.2
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1463.7	1470.8	1475.0	1480.6	1494.6
5°	1407.7	1434.3	1442.7	1463.7	1489.0
7.5°	1284.3	1365.6	1388.0	1438.5	1477.8
10°	1165.1	1246.4	1285.7	1404.9	1463.7
12.5°	1104.8	1152.5	1179.1	1346.0	1444.1
15°	1067.0	1100.6	1120.2	1267.5	1421.7
17.5°	1037.5	1061.4	1075.4	1190.3	1390.8
20°	1019.3	1030.5	1043.1	1134.3	1355.8
22.5°	1006.7	999.7	1009.5	1095.0	1308.1
25°	998.3	971.6	982.8	1064.2	1252.0
27.5°	1005.3	946.4	950.6	1036.1	1193.2
30°	1006.7	915.5	916.9	1006.7	1127.3
32.5°	996.9	883.3	884.7	970.2	1052.9
35°	973.0	845.4	844.0	928.2	952.0
37.5°	940.8	804.8	804.8	881.9	841.2
40°	901.5	764.1	768.3	821.6	743.1
42.5°	853.9	720.7	726.3	741.7	670.2
45°	802.0	678.6	682.8	626.7	614.1
47.5°	744.5	635.1	636.5	520.2	595.9
50°	675.8	590.3	584.7	445.9	594.5
52.5°	615.5	541.2	524.4	403.8	539.8
55°	556.6	489.3	452.9	371.5	500.5
57.5°	504.7	422.0	387.0	333.7	492.1
60°	457.1	356.1	329.5	293.0	451.5
62.5°	417.8	307.1	301.4	265.0	409.4
65°	375.8	273.4	272.0	241.2	347.7
67.5°	335.1	251.0	249.6	218.7	265.0
70°	291.6	227.1	224.3	194.9	196.3
72.5°	246.8	200.5	197.7	175.3	162.6
75°	201.9	169.6	168.2	152.8	131.8
77.5°	158.4	134.6	137.4	123.4	96.7
80°	113.6	98.1	100.9	88.3	72.9
82.5°	75.7	64.5	67.3	56.1	49.1
85°	42.1	36.5	37.9	29.4	22.4
87.5°	19.6	16.8	16.8	11.2	7.0
90°	19.1	12.2	11.3	7.8	4.3
92.5°	117.9	83.8	76.5	46.9	17.4
95°	290.1	163.4	149.8	95.8	41.7
97.5°	390.9	179.5	167.5	119.8	72.2
100°	427.5	193.0	182.2	138.9	95.6
102.5°	444.4	206.5	196.4	156.0	115.6
105°	456.8	226.5	218.0	183.8	149.6
107.5°	459.1	256.0	248.1	216.2	184.3
110°	455.6	272.5	265.3	236.6	207.8



TEST NUMBER: P934741

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	455.8	292.5	285.6	258.2	230.8
115°	460.0	322.5	316.1	290.9	265.5
117.5°	468.6	351.6	345.8	322.8	299.9
120°	475.5	368.6	363.1	341.5	319.9
122.5°	485.5	388.6	383.1	361.3	339.5
125°	498.9	414.2	409.2	389.3	369.4
127.5°	512.4	438.9	433.9	413.9	393.8
130°	522.3	455.5	450.1	428.5	406.8
132.5°	530.3	468.9	463.5	441.9	420.2
135°	539.0	484.6	479.7	460.0	440.2
137.5°	551.9	504.6	499.7	480.2	460.7
140°	560.0	518.1	513.6	495.6	477.6
142.5°	566.6	528.1	524.0	507.4	490.7
145°	575.3	543.3	539.6	525.2	510.7
147.5°	588.0	562.4	558.9	544.7	530.6
150°	594.8	572.4	569.2	556.4	543.7
152.5°	599.1	579.0	576.5	566.9	557.2
155°	608.6	593.3	591.5	584.3	577.2
157.5°	618.2	607.7	605.9	599.0	591.9
160°	622.5	614.1	612.8	607.4	602.0
162.5°	627.2	621.1	620.1	616.1	612.0
165°	633.8	631.1	630.2	626.5	622.8
167.5°	639.1	636.7	636.3	634.6	632.8
170°	643.4	643.3	642.8	641.1	639.3
172.5°	643.6	643.6	643.5	643.2	642.8
175°	646.3	647.6	647.6	647.6	647.6
177.5°	646.5	647.6	647.6	647.6	647.6
180°	647.6	647.6	647.6	647.6	647.6



TEST NUMBER: P934741

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-5000K

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.29	13.14	13.27	14.13	15.43	15.12	15.96	16.09	16.95	18.25
	3H	12.77	13.52	13.76	14.52	15.85	16.46	17.21	17.45	18.21	19.54
	4H	12.96	13.67	13.96	14.68	16.01	16.90	17.62	17.90	18.62	19.95
	6H	13.08	13.74	14.09	14.74	16.09	17.19	17.84	18.20	18.85	20.19
	8H	13.08	13.70	14.10	14.73	16.07	17.26	17.88	18.28	18.91	20.25
	12H	13.05	13.64	14.07	14.66	16.03	17.30	17.89	18.32	18.91	20.27
4H	2H	13.32	14.04	14.33	15.04	16.37	15.53	16.24	16.53	17.24	18.57
	3H	14.35	14.94	15.36	15.97	17.32	17.03	17.62	18.04	18.65	20.00
	4H	14.62	15.17	15.65	16.19	17.56	17.55	18.10	18.58	19.12	20.49
	6H	14.75	15.22	15.78	16.26	17.63	17.92	18.38	18.95	19.43	20.80
	8H	14.75	15.19	15.79	16.23	17.61	18.02	18.46	19.06	19.50	20.88
	12H	14.72	15.11	15.77	16.17	17.55	18.08	18.47	19.13	19.53	20.91
8H	4H	15.07	15.51	16.11	16.55	17.93	17.68	18.11	18.71	19.15	20.53
	6H	15.34	15.70	16.39	16.78	18.16	18.11	18.47	19.17	19.55	20.93
	8H	15.38	15.70	16.44	16.76	18.16	18.26	18.58	19.33	19.65	21.04
	12H	15.36	15.64	16.43	16.70	18.14	18.36	18.64	19.43	19.70	21.14
12H	4H	15.08	15.47	16.13	16.53	17.91	17.64	18.04	18.69	19.09	20.47
	6H	15.40	15.71	16.46	16.78	18.18	18.11	18.43	19.17	19.49	20.89
	8H	15.46	15.74	16.53	16.80	18.24	18.27	18.55	19.34	19.61	21.05