

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: P934294

Luminaire Tested: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934294
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

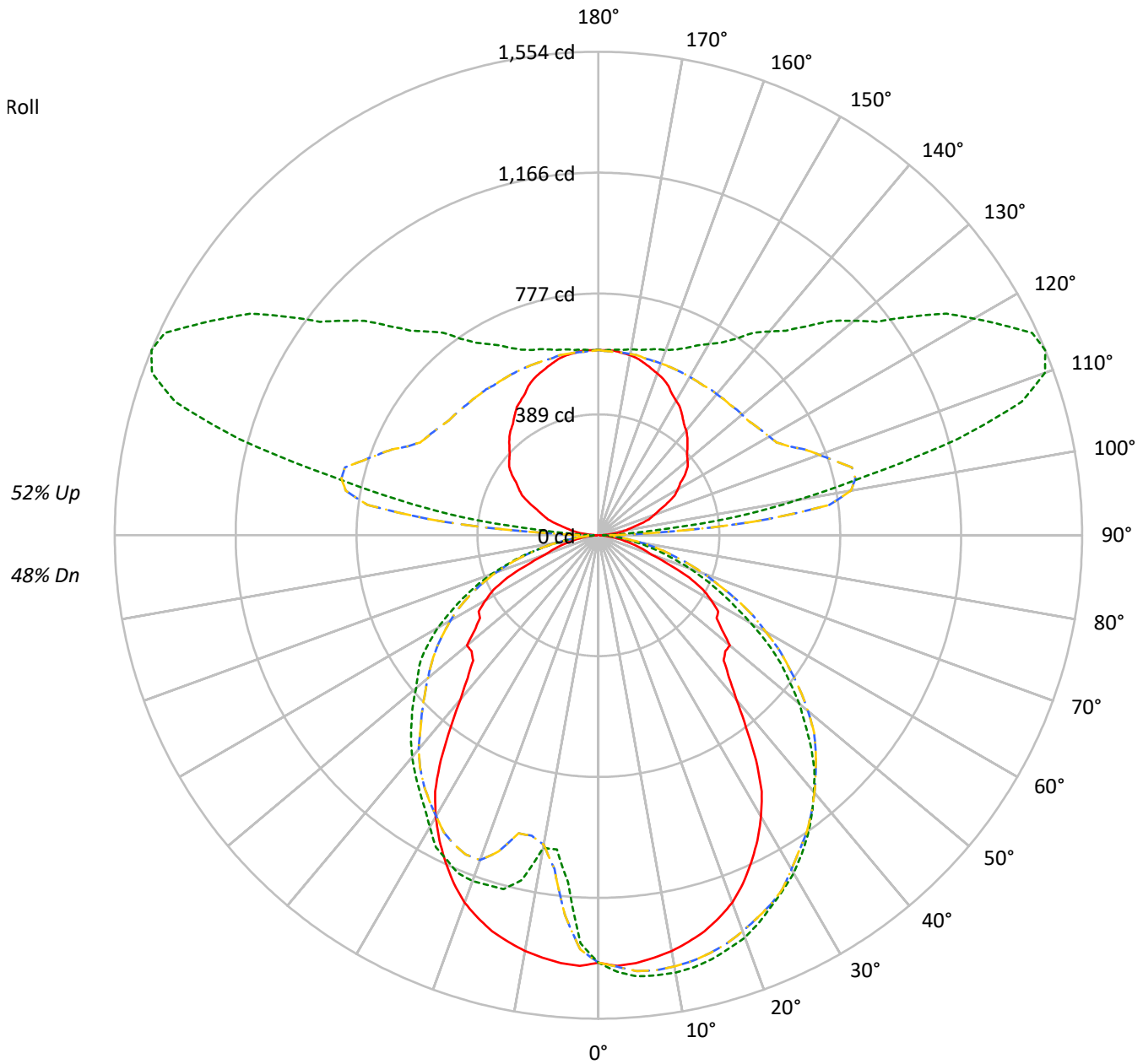
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7422.5 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 56.8
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	83	80	72	70	68	60	58	56	48	47	46	41
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	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	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	34	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	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6374	6374	6374	6374
5°	6422	6434	6422	5059
10°	6379	6338	6379	4531
15°	6309	6201	6309	5177
20°	6177	6038	6177	5189
25°	5907	5801	5907	5079
30°	5558	5604	5558	4837
35°	4955	5355	4955	4571
40°	4129	5061	4129	4371
45°	3689	4718	3689	4141
50°	3919	4309	3919	3910
55°	3687	3868	3687	3775
60°	3801	3285	3801	3458
65°	3446	2715	3446	3035
70°	2387	2164	2387	2544
75°	2093	1600	2093	1916
80°	1684	1058	1684	1151
85°	969	560	969	476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5654 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	1.7
10°-20°	352.1	4.7
20°-30°	544.3	7.3
30°-40°	649.8	8.8
40°-50°	653.6	8.8
50°-60°	568.7	7.7
60°-70°	403.2	5.4
70°-80°	213.3	2.9
80°-90°	55.4	0.7
90°-100°	290.1	3.9
100°-110°	762.7	10.3
110°-120°	790.9	10.7
120°-130°	634.4	8.5
130°-140°	497.8	6.7
140°-150°	382.1	5.1
150°-160°	275.1	3.7
160°-170°	168.3	2.3
170°-180°	56.9	0.8
0°-30°	1020.4	13.7
0°-40°	1670.1	22.5
0°-60°	2892.4	39.0
0°-90°	3564.3	48.0
90°-120°	1843.7	24.8
90°-150°	3357.9	45.2
90°-180°	3858.0	52.0
0°-180°	7422.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1374	1374	1374	1374	1374	
5°	1380	1423	1380	1119	1380	131
15°	1318	1410	1318	1178	1318	371
25°	1161	1315	1161	1152	1161	533
35°	882	1174	882	1002	882	546
45°	569	967	569	849	569	456
55°	464	714	464	697	464	426
65°	322	430	322	481	322	308
75°	122	204	122	244	122	128
85°	21	52	21	44	21	28
90°	4	15	4	15	4	4
95°	38	175	38	175	38	43
105°	137	1194	137	1194	137	146
115°	244	1538	244	1538	244	241
125°	340	1225	340	1225	340	301
135°	405	950	405	950	405	313
145°	469	771	469	771	469	294
155°	530	664	530	664	530	244
165°	572	618	572	618	572	162
175°	595	599	595	599	595	56
180°	595	595	595	595	595	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1385.5	1385.5	1393.3	1395.9	1395.9	1392.0	1388.1	1392.0	1403.7	1407.6	1406.3
5°	1380.3	1390.7	1405.0	1407.6	1410.2	1408.9	1406.3	1408.9	1421.9	1424.5	1425.8
7.5°	1369.9	1389.4	1407.6	1411.5	1415.4	1411.5	1410.2	1412.8	1425.8	1428.4	1428.4
10°	1356.9	1384.2	1405.0	1407.6	1411.5	1407.6	1407.6	1412.8	1425.8	1428.4	1429.7
12.5°	1338.7	1376.4	1395.9	1398.5	1403.7	1402.4	1401.1	1406.3	1419.3	1421.9	1421.9
15°	1317.9	1362.1	1380.3	1382.9	1392.0	1389.4	1389.4	1394.6	1408.9	1412.8	1411.5
17.5°	1289.4	1343.9	1364.7	1368.6	1375.1	1373.8	1375.1	1380.3	1393.3	1395.9	1397.2
20°	1256.8	1319.2	1343.9	1347.8	1354.3	1354.3	1354.3	1360.8	1373.8	1379.0	1379.0
22.5°	1212.6	1293.2	1319.2	1321.8	1329.7	1329.7	1332.2	1341.3	1353.0	1354.3	1354.3
25°	1160.7	1264.6	1286.7	1294.5	1302.3	1306.2	1310.1	1315.3	1319.2	1317.9	1319.2
27.5°	1106.1	1228.2	1256.8	1262.0	1272.4	1276.4	1281.5	1282.9	1284.1	1288.0	1285.5
30°	1045.0	1177.5	1220.5	1225.7	1242.5	1245.2	1239.9	1242.5	1249.0	1251.7	1254.3
32.5°	976.1	1102.1	1182.8	1194.5	1210.1	1202.2	1201.0	1204.9	1215.2	1215.2	1217.8
35°	882.5	1043.7	1147.7	1158.1	1169.8	1160.7	1165.9	1167.2	1173.7	1177.5	1176.3
37.5°	779.9	993.0	1111.2	1119.1	1128.2	1116.5	1124.2	1128.2	1133.3	1130.7	1130.7
40°	688.9	913.7	1068.4	1073.6	1081.4	1072.3	1080.0	1082.7	1085.3	1082.7	1081.4
42.5°	621.2	826.7	1022.9	1029.4	1024.1	1030.7	1033.2	1038.5	1034.6	1029.4	1029.4
45°	569.3	803.2	973.5	981.3	973.5	983.9	987.8	987.8	976.1	973.5	972.2
47.5°	552.4	756.4	924.1	924.1	920.2	933.2	939.7	930.6	918.9	915.0	915.0
50°	551.1	704.5	856.5	851.4	869.5	885.1	878.6	869.5	860.4	846.1	846.1
52.5°	500.4	640.8	769.5	789.0	817.5	826.7	816.2	807.2	791.6	785.0	779.9
55°	464.0	574.5	690.1	729.2	759.0	770.7	751.3	742.2	718.7	714.8	712.2
57.5°	456.2	478.3	617.3	666.8	703.1	701.8	690.1	673.3	653.8	649.9	648.6
60°	418.5	345.7	539.3	597.9	635.6	631.7	621.2	605.6	587.5	584.9	582.3
62.5°	379.6	250.9	451.0	517.3	570.5	569.3	560.2	536.8	523.7	517.3	512.1
65°	322.3	210.6	321.0	430.2	506.9	509.5	490.0	473.1	458.8	451.0	449.7
67.5°	245.6	171.6	217.1	358.7	445.8	443.2	418.5	410.8	392.5	388.7	380.8
70°	182.0	114.3	150.8	291.2	386.0	379.6	360.0	351.0	334.0	324.9	319.8
72.5°	150.8	92.2	110.5	226.2	324.9	317.2	300.2	289.8	275.6	267.7	262.5
75°	122.2	97.5	84.5	167.6	263.9	258.6	243.0	232.7	220.9	210.6	211.8
77.5°	89.7	91.0	67.5	123.5	209.3	201.5	192.3	179.4	174.1	163.8	163.8
80°	67.5	71.5	50.7	84.5	150.8	150.8	142.9	133.9	124.8	119.6	119.6
82.5°	45.4	45.4	37.7	53.3	102.7	98.7	93.6	91.0	85.8	83.1	83.1
85°	20.8	26.0	23.4	32.5	55.9	58.5	58.5	55.9	54.6	52.0	53.3
87.5°	6.5	11.7	14.3	18.2	28.6	29.9	31.2	31.2	31.2	32.5	32.5
90°	4.0	7.2	10.4	11.1	17.5	26.1	30.3	26.9	20.3	15.2	15.2
92.5°	16.0	43.1	70.3	77.1	108.4	150.1	170.9	149.8	107.6	75.9	72.9
95°	38.4	88.1	137.8	150.2	266.7	422.0	499.7	445.9	338.4	257.7	248.5
97.5°	66.3	110.1	154.0	164.9	359.2	618.2	747.8	713.8	645.7	594.8	577.3
100°	87.9	127.6	167.3	177.3	392.9	680.3	824.0	826.6	831.5	835.2	814.4
102.5°	106.3	143.4	180.4	189.7	408.3	699.9	845.6	889.0	975.6	1040.5	1022.8
105°	137.4	168.8	200.3	208.1	419.9	702.1	843.2	940.3	1134.6	1280.2	1270.6
107.5°	169.4	198.6	227.9	235.3	421.9	670.8	795.3	930.7	1201.7	1404.9	1407.2
110°	190.9	217.3	243.9	250.5	418.8	643.1	755.3	906.8	1209.6	1436.7	1446.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	212.1	237.3	262.5	268.8	418.9	619.0	719.0	873.9	1183.9	1416.4	1431.7
115°	244.1	267.3	290.6	296.4	422.8	591.3	675.5	824.8	1123.4	1347.3	1368.4
117.5°	275.6	296.7	317.8	323.2	430.6	573.8	645.5	780.2	1049.7	1251.9	1275.3
120°	294.0	313.9	333.8	338.8	437.0	568.0	633.5	756.6	1002.8	1187.5	1210.3
122.5°	311.9	332.0	352.0	357.1	446.1	564.9	624.3	735.2	957.0	1123.3	1145.7
125°	339.5	357.8	376.1	380.6	458.5	562.4	614.3	708.5	896.9	1038.2	1058.9
127.5°	361.9	380.3	398.7	403.4	470.9	561.0	605.9	686.8	848.6	969.9	987.3
130°	373.8	393.7	413.7	418.6	479.9	561.8	602.7	674.7	818.7	926.7	942.8
132.5°	386.2	406.1	426.1	431.0	487.3	562.4	600.0	664.4	793.3	889.9	904.4
135°	404.7	422.8	440.8	445.4	495.3	561.8	595.2	649.1	757.1	838.0	850.5
137.5°	423.5	441.4	459.3	463.8	507.3	565.3	594.4	640.0	731.3	799.7	809.9
140°	439.0	455.5	472.0	476.2	514.6	565.9	591.6	631.0	709.8	768.9	778.4
142.5°	451.0	466.2	481.5	485.3	520.7	567.9	591.6	626.2	695.5	747.4	755.6
145°	469.4	482.7	496.0	499.3	528.8	568.0	587.6	615.9	672.6	715.0	721.2
147.5°	487.7	500.7	513.7	516.9	540.4	571.9	587.6	609.9	654.4	687.8	692.9
150°	499.7	511.4	523.2	526.1	546.6	573.9	587.6	606.4	644.1	672.3	676.5
152.5°	512.1	521.0	529.8	532.1	550.6	575.3	587.6	603.7	635.8	659.9	663.1
155°	530.4	537.0	543.6	545.3	559.4	578.2	587.6	600.4	625.9	645.1	647.2
157.5°	544.0	550.4	556.8	558.4	568.1	581.1	587.6	597.5	617.3	632.3	633.7
160°	553.2	558.2	563.2	564.4	572.2	582.5	587.6	596.1	613.1	625.9	626.7
162.5°	562.4	566.2	569.9	570.8	576.5	583.9	587.6	594.8	609.2	620.0	620.7
165°	572.4	575.8	579.1	579.9	582.5	585.9	587.6	592.7	603.0	610.8	611.6
167.5°	581.6	583.1	584.8	585.2	587.3	590.1	591.6	595.0	601.7	606.8	607.2
170°	587.6	589.2	590.8	591.2	591.3	591.5	591.6	595.0	601.7	606.8	606.8
172.5°	590.8	591.2	591.5	591.6	591.6	591.6	591.6	594.3	599.6	603.6	603.3
175°	595.2	595.2	595.2	595.2	594.0	592.3	591.6	593.2	596.6	599.1	599.1
177.5°	595.2	595.2	595.2	595.2	594.2	592.9	592.3	593.7	596.3	598.4	598.0
180°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1408.9	1405.0	1408.9	1406.3	1407.6	1403.7	1392.0	1388.1	1392.0	1395.9	1395.9
5°	1425.8	1423.2	1425.8	1425.8	1424.5	1421.9	1408.9	1406.3	1408.9	1410.2	1407.6
7.5°	1431.0	1427.1	1431.0	1428.4	1428.4	1425.8	1412.8	1410.2	1411.5	1415.4	1411.5
10°	1431.0	1427.1	1431.0	1429.7	1428.4	1425.8	1412.8	1407.6	1407.6	1411.5	1407.6
12.5°	1424.5	1421.9	1424.5	1421.9	1421.9	1419.3	1406.3	1401.1	1402.4	1403.7	1398.5
15°	1414.1	1410.2	1414.1	1411.5	1412.8	1408.9	1394.6	1389.4	1389.4	1392.0	1382.9
17.5°	1398.5	1393.3	1398.5	1397.2	1395.9	1393.3	1380.3	1375.1	1373.8	1375.1	1368.6
20°	1380.3	1376.4	1380.3	1379.0	1379.0	1373.8	1360.8	1354.3	1354.3	1354.3	1347.8
22.5°	1351.8	1347.8	1351.8	1354.3	1354.3	1353.0	1341.3	1332.2	1329.7	1329.7	1321.8
25°	1319.2	1315.3	1319.2	1319.2	1317.9	1319.2	1315.3	1310.1	1306.2	1302.3	1294.5
27.5°	1288.0	1285.5	1288.0	1285.5	1288.0	1284.1	1282.9	1281.5	1276.4	1272.4	1262.0
30°	1256.8	1254.3	1256.8	1254.3	1251.7	1249.0	1242.5	1239.9	1245.2	1242.5	1225.7
32.5°	1217.8	1215.2	1217.8	1217.8	1215.2	1215.2	1204.9	1201.0	1202.2	1210.1	1194.5
35°	1177.5	1173.7	1177.5	1176.3	1177.5	1173.7	1167.2	1165.9	1160.7	1169.8	1158.1
37.5°	1130.7	1126.9	1130.7	1130.7	1130.7	1133.3	1128.2	1124.2	1116.5	1128.2	1119.1
40°	1082.7	1077.4	1082.7	1081.4	1082.7	1085.3	1082.7	1080.0	1072.3	1081.4	1073.6
42.5°	1028.1	1026.8	1028.1	1029.4	1029.4	1034.6	1038.5	1033.2	1030.7	1024.1	1029.4
45°	969.6	967.0	969.6	972.2	973.5	976.1	987.8	987.8	983.9	973.5	981.3
47.5°	907.2	900.7	907.2	915.0	915.0	918.9	930.6	939.7	933.2	920.2	924.1
50°	840.9	842.3	840.9	846.1	846.1	860.4	869.5	878.6	885.1	869.5	851.4
52.5°	776.0	774.6	776.0	779.9	785.0	791.6	807.2	816.2	826.7	817.5	789.0
55°	711.0	713.6	711.0	712.2	714.8	718.7	742.2	751.3	770.7	759.0	729.2
57.5°	645.9	642.1	645.9	648.6	649.9	653.8	673.3	690.1	701.8	703.1	666.8
60°	570.5	565.4	570.5	582.3	584.9	587.5	605.6	621.2	631.7	635.6	597.9
62.5°	504.3	495.2	504.3	512.1	517.3	523.7	536.8	560.2	569.3	570.5	517.3
65°	434.1	430.2	434.1	449.7	451.0	458.8	473.1	490.0	509.5	506.9	430.2
67.5°	370.4	370.4	370.4	380.8	388.7	392.5	410.8	418.5	443.2	445.8	358.7
70°	311.9	310.7	311.9	319.8	324.9	334.0	351.0	360.0	379.6	386.0	291.2
72.5°	256.0	254.8	256.0	262.5	267.7	275.6	289.8	300.2	317.2	324.9	226.2
75°	206.7	204.1	206.7	211.8	210.6	220.9	232.7	243.0	258.6	263.9	167.6
77.5°	158.5	158.5	158.5	163.8	163.8	174.1	179.4	192.3	201.5	209.3	123.5
80°	118.3	117.0	118.3	119.6	119.6	124.8	133.9	142.9	150.8	150.8	84.5
82.5°	83.1	80.6	83.1	83.1	83.1	85.8	91.0	93.6	98.7	102.7	53.3
85°	52.0	52.0	52.0	53.3	52.0	54.6	55.9	58.5	58.5	55.9	32.5
87.5°	33.8	32.5	33.8	32.5	32.5	31.2	31.2	31.2	29.9	28.6	18.2
90°	15.2	15.2	15.2	15.2	15.2	20.3	26.9	30.3	26.1	17.5	11.1
92.5°	60.8	48.7	60.8	72.9	75.9	107.6	149.8	170.9	150.1	108.4	77.1
95°	211.9	175.4	211.9	248.5	257.7	338.4	445.9	499.7	422.0	266.7	150.2
97.5°	507.8	438.2	507.8	577.3	594.8	645.7	713.8	747.8	618.2	359.2	164.9
100°	731.6	648.6	731.6	814.4	835.2	831.5	826.6	824.0	680.3	392.9	177.3
102.5°	951.8	880.7	951.8	1022.8	1040.5	975.6	889.0	845.6	699.9	408.3	189.7
105°	1232.5	1194.3	1232.5	1270.6	1280.2	1134.6	940.3	843.2	702.1	419.9	208.1
107.5°	1416.4	1425.6	1416.4	1407.2	1404.9	1201.7	930.7	795.3	670.8	421.9	235.3
110°	1486.4	1526.3	1486.4	1446.7	1436.7	1209.6	906.8	755.3	643.1	418.8	250.5



TEST NUMBER: P934294

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1492.7	1553.8	1492.7	1431.7	1416.4	1183.9	873.9	719.0	619.0	418.9	268.8
115°	1453.1	1537.8	1453.1	1368.4	1347.3	1123.4	824.8	675.5	591.3	422.8	296.4
117.5°	1369.3	1463.2	1369.3	1275.3	1251.9	1049.7	780.2	645.5	573.8	430.6	323.2
120°	1301.6	1392.8	1301.6	1210.3	1187.5	1002.8	756.6	633.5	568.0	437.0	338.8
122.5°	1235.8	1325.8	1235.8	1145.7	1123.3	957.0	735.2	624.3	564.9	446.1	357.1
125°	1141.8	1224.7	1141.8	1058.9	1038.2	896.9	708.5	614.3	562.4	458.5	380.6
127.5°	1057.3	1127.2	1057.3	987.3	969.9	848.6	686.8	605.9	561.0	470.9	403.4
130°	1007.5	1072.1	1007.5	942.8	926.7	818.7	674.7	602.7	561.8	479.9	418.6
132.5°	962.3	1020.2	962.3	904.4	889.9	793.3	664.4	600.0	562.4	487.3	431.0
135°	900.4	950.3	900.4	850.5	838.0	757.1	649.1	595.2	561.8	495.3	445.4
137.5°	850.8	891.6	850.8	809.9	799.7	731.3	640.0	594.4	565.3	507.3	463.8
140°	816.6	854.8	816.6	778.4	768.9	709.8	631.0	591.6	565.9	514.6	476.2
142.5°	788.4	821.2	788.4	755.6	747.4	695.5	626.2	591.6	567.9	520.7	485.3
145°	746.1	770.9	746.1	721.2	715.0	672.6	615.9	587.6	568.0	528.8	499.3
147.5°	713.6	734.2	713.6	692.9	687.8	654.4	609.9	587.6	571.9	540.4	516.9
150°	693.1	709.8	693.1	676.5	672.3	644.1	606.4	587.6	573.9	546.6	526.1
152.5°	675.7	688.3	675.7	663.1	659.9	635.8	603.7	587.6	575.3	550.6	532.1
155°	655.5	663.9	655.5	647.2	645.1	625.9	600.4	587.6	578.2	559.4	545.3
157.5°	639.6	645.5	639.6	633.7	632.3	617.3	597.5	587.6	581.1	568.1	558.4
160°	630.1	633.5	630.1	626.7	625.9	613.1	596.1	587.6	582.5	572.2	564.4
162.5°	623.9	627.1	623.9	620.7	620.0	609.2	594.8	587.6	583.9	576.5	570.8
165°	614.9	618.3	614.9	611.6	610.8	603.0	592.7	587.6	585.9	582.5	579.9
167.5°	608.5	610.0	608.5	607.2	606.8	601.7	595.0	591.6	590.1	587.3	585.2
170°	606.8	606.8	606.8	606.8	606.8	601.7	595.0	591.6	591.5	591.3	591.2
172.5°	602.0	600.8	602.0	603.3	603.6	599.6	594.3	591.6	591.6	591.6	591.6
175°	599.1	599.1	599.1	599.1	599.1	596.6	593.2	591.6	592.3	594.0	595.2
177.5°	596.6	595.2	596.6	598.0	598.4	596.3	593.7	592.3	592.9	594.2	595.2
180°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2



TEST NUMBER: P934294

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1393.3	1385.5	1385.5	1372.5	1367.4	1363.4	1356.9	1337.4	1332.2	1327.0	1334.8
5°	1405.0	1390.7	1380.3	1356.9	1337.4	1329.7	1305.0	1258.1	1226.9	1203.5	1190.5
7.5°	1407.6	1389.4	1369.9	1333.5	1286.7	1265.9	1190.5	1104.8	1081.4	1060.6	1047.6
10°	1405.0	1384.2	1356.9	1302.3	1191.9	1155.4	1080.0	1024.1	1009.9	1006.0	1009.9
12.5°	1395.9	1376.4	1338.7	1247.8	1093.0	1068.4	1024.1	991.7	989.1	995.6	1030.7
15°	1380.3	1362.1	1317.9	1174.9	1038.5	1020.3	989.1	977.4	991.7	1037.2	1142.5
17.5°	1364.7	1343.9	1289.4	1103.5	996.9	983.9	961.8	985.2	1065.8	1126.9	1161.9
20°	1343.9	1319.2	1256.8	1051.5	967.0	955.3	944.9	1050.2	1111.2	1133.3	1152.8
22.5°	1319.2	1293.2	1212.6	1015.1	935.8	926.8	933.2	1086.5	1111.2	1126.9	1143.7
25°	1286.7	1264.6	1160.7	986.5	911.2	900.7	925.4	1082.7	1097.0	1100.9	1134.7
27.5°	1256.8	1228.2	1106.1	960.5	881.2	877.3	931.9	1065.8	1076.2	1080.0	1116.5
30°	1220.5	1177.5	1045.0	933.2	850.0	848.7	933.2	1045.0	1042.4	1052.8	1089.2
32.5°	1182.8	1102.1	976.1	899.4	820.2	818.8	924.1	1013.8	1011.2	1025.5	1052.8
35°	1147.7	1043.7	882.5	860.4	782.5	783.7	902.0	977.4	978.7	991.7	1008.6
37.5°	1111.2	993.0	779.9	817.5	746.0	746.0	872.1	943.6	941.0	944.9	968.3
40°	1068.4	913.7	688.9	761.6	712.2	708.3	835.8	907.2	898.1	896.8	929.3
42.5°	1022.9	826.7	621.2	687.6	673.3	668.0	791.6	863.0	846.1	850.0	891.6
45°	973.5	803.2	569.3	581.0	633.0	629.1	743.4	812.3	800.6	811.1	853.9
47.5°	924.1	756.4	552.4	482.2	590.1	588.8	690.1	762.9	756.4	766.9	812.3
50°	856.5	704.5	551.1	413.3	542.0	547.2	626.5	714.8	714.8	723.9	772.0
52.5°	769.5	640.8	500.4	374.3	486.1	501.7	570.5	673.3	675.9	685.0	727.8
55°	690.1	574.5	464.0	344.4	419.8	453.6	516.0	630.3	635.6	644.7	683.6
57.5°	617.3	478.3	456.2	309.3	358.7	391.2	467.9	588.8	591.4	599.1	636.8
60°	539.3	345.7	418.5	271.6	305.4	330.1	423.7	539.3	548.5	553.7	586.1
62.5°	451.0	250.9	379.6	245.6	279.5	284.6	387.3	492.6	504.3	508.2	527.7
65°	321.0	210.6	322.3	223.5	252.1	253.5	348.4	444.5	454.9	461.4	475.7
67.5°	217.1	171.6	245.6	202.7	231.4	232.7	310.7	388.7	402.9	408.1	417.3
70°	150.8	114.3	182.0	180.6	207.9	210.6	270.4	337.9	351.0	354.8	360.0
72.5°	110.5	92.2	150.8	162.5	183.2	185.9	228.8	280.7	293.7	297.7	300.2
75°	84.5	97.5	122.2	141.7	156.0	157.3	187.1	228.8	237.9	240.4	241.8
77.5°	67.5	91.0	89.7	114.3	127.3	124.8	146.9	176.7	184.6	184.6	184.6
80°	50.7	71.5	67.5	81.9	93.6	91.0	105.2	126.1	128.7	131.3	129.9
82.5°	37.7	45.4	45.4	52.0	62.4	59.8	70.2	81.9	81.9	81.9	84.5
85°	23.4	26.0	20.8	27.3	35.1	33.8	39.0	44.2	45.4	45.4	42.9
87.5°	14.3	11.7	6.5	10.4	15.6	15.6	18.2	19.5	18.2	18.2	18.2
90°	10.4	7.2	4.0	7.2	10.4	11.1	17.5	26.1	30.3	26.9	20.3
92.5°	70.3	43.1	16.0	43.1	70.3	77.1	108.4	150.1	170.9	149.8	107.6
95°	137.8	88.1	38.4	88.1	137.8	150.2	266.7	422.0	499.7	445.9	338.4
97.5°	154.0	110.1	66.3	110.1	154.0	164.9	359.2	618.2	747.8	713.8	645.7
100°	167.3	127.6	87.9	127.6	167.3	177.3	392.9	680.3	824.0	826.6	831.5
102.5°	180.4	143.4	106.3	143.4	180.4	189.7	408.3	699.9	845.6	889.0	975.6
105°	200.3	168.8	137.4	168.8	200.3	208.1	419.9	702.1	843.2	940.3	1134.6
107.5°	227.9	198.6	169.4	198.6	227.9	235.3	421.9	670.8	795.3	930.7	1201.7
110°	243.9	217.3	190.9	217.3	243.9	250.5	418.8	643.1	755.3	906.8	1209.6



TEST NUMBER: P934294

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	262.5	237.3	212.1	237.3	262.5	268.8	418.9	619.0	719.0	873.9	1183.9
115°	290.6	267.3	244.1	267.3	290.6	296.4	422.8	591.3	675.5	824.8	1123.4
117.5°	317.8	296.7	275.6	296.7	317.8	323.2	430.6	573.8	645.5	780.2	1049.7
120°	333.8	313.9	294.0	313.9	333.8	338.8	437.0	568.0	633.5	756.6	1002.8
122.5°	352.0	332.0	311.9	332.0	352.0	357.1	446.1	564.9	624.3	735.2	957.0
125°	376.1	357.8	339.5	357.8	376.1	380.6	458.5	562.4	614.3	708.5	896.9
127.5°	398.7	380.3	361.9	380.3	398.7	403.4	470.9	561.0	605.9	686.8	848.6
130°	413.7	393.7	373.8	393.7	413.7	418.6	479.9	561.8	602.7	674.7	818.7
132.5°	426.1	406.1	386.2	406.1	426.1	431.0	487.3	562.4	600.0	664.4	793.3
135°	440.8	422.8	404.7	422.8	440.8	445.4	495.3	561.8	595.2	649.1	757.1
137.5°	459.3	441.4	423.5	441.4	459.3	463.8	507.3	565.3	594.4	640.0	731.3
140°	472.0	455.5	439.0	455.5	472.0	476.2	514.6	565.9	591.6	631.0	709.8
142.5°	481.5	466.2	451.0	466.2	481.5	485.3	520.7	567.9	591.6	626.2	695.5
145°	496.0	482.7	469.4	482.7	496.0	499.3	528.8	568.0	587.6	615.9	672.6
147.5°	513.7	500.7	487.7	500.7	513.7	516.9	540.4	571.9	587.6	609.9	654.4
150°	523.2	511.4	499.7	511.4	523.2	526.1	546.6	573.9	587.6	606.4	644.1
152.5°	529.8	521.0	512.1	521.0	529.8	532.1	550.6	575.3	587.6	603.7	635.8
155°	543.6	537.0	530.4	537.0	543.6	545.3	559.4	578.2	587.6	600.4	625.9
157.5°	556.8	550.4	544.0	550.4	556.8	558.4	568.1	581.1	587.6	597.5	617.3
160°	563.2	558.2	553.2	558.2	563.2	564.4	572.2	582.5	587.6	596.1	613.1
162.5°	569.9	566.2	562.4	566.2	569.9	570.8	576.5	583.9	587.6	594.8	609.2
165°	579.1	575.8	572.4	575.8	579.1	579.9	582.5	585.9	587.6	592.7	603.0
167.5°	584.8	583.1	581.6	583.1	584.8	585.2	587.3	590.1	591.6	595.0	601.7
170°	590.8	589.2	587.6	589.2	590.8	591.2	591.3	591.5	591.6	595.0	601.7
172.5°	591.5	591.2	590.8	591.2	591.5	591.6	591.6	591.6	591.6	594.3	599.6
175°	595.2	595.2	595.2	595.2	595.2	595.2	594.0	592.3	591.6	593.2	596.6
177.5°	595.2	595.2	595.2	595.2	595.2	595.2	594.2	592.9	592.3	593.7	596.3
180°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2



TEST NUMBER: P934294

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1325.7	1321.8	1327.0	1312.7	1327.0	1321.8	1325.7	1334.8	1327.0	1332.2	1337.4
5°	1163.3	1156.8	1136.0	1119.1	1136.0	1156.8	1163.3	1190.5	1203.5	1226.9	1258.1
7.5°	1039.7	1034.6	1029.4	1019.0	1029.4	1034.6	1039.7	1047.6	1060.6	1081.4	1104.8
10°	1012.5	1013.8	1021.6	1020.3	1021.6	1013.8	1012.5	1009.9	1006.0	1009.9	1024.1
12.5°	1082.7	1094.4	1137.2	1134.7	1137.2	1094.4	1082.7	1030.7	995.6	989.1	991.7
15°	1163.3	1167.2	1176.3	1177.5	1176.3	1167.2	1163.3	1142.5	1037.2	991.7	977.4
17.5°	1171.0	1172.4	1178.9	1178.9	1178.9	1172.4	1171.0	1161.9	1126.9	1065.8	985.2
20°	1164.5	1167.2	1180.1	1182.8	1180.1	1167.2	1164.5	1152.8	1133.3	1111.2	1050.2
22.5°	1161.9	1167.2	1177.5	1176.3	1177.5	1167.2	1161.9	1143.7	1126.9	1111.2	1086.5
25°	1148.9	1148.9	1150.3	1151.6	1150.3	1148.9	1148.9	1134.7	1100.9	1097.0	1082.7
27.5°	1121.6	1124.2	1132.1	1130.7	1132.1	1124.2	1121.6	1116.5	1080.0	1076.2	1065.8
30°	1097.0	1094.4	1087.9	1082.7	1087.9	1094.4	1097.0	1089.2	1052.8	1042.4	1045.0
32.5°	1055.3	1048.8	1042.4	1038.5	1042.4	1048.8	1055.3	1052.8	1025.5	1011.2	1013.8
35°	1006.0	1007.3	1006.0	1002.0	1006.0	1007.3	1006.0	1008.6	991.7	978.7	977.4
37.5°	970.9	973.5	972.2	967.0	972.2	973.5	970.9	968.3	944.9	941.0	943.6
40°	934.5	935.8	934.5	930.6	934.5	935.8	934.5	929.3	896.8	898.1	907.2
42.5°	899.4	898.1	894.2	891.6	894.2	898.1	899.4	891.6	850.0	846.1	863.0
45°	859.1	860.4	852.6	848.7	852.6	860.4	859.1	853.9	811.1	800.6	812.3
47.5°	818.8	818.8	812.3	808.4	812.3	818.8	818.8	812.3	766.9	756.4	762.9
50°	776.0	774.6	765.5	764.3	765.5	774.6	776.0	772.0	723.9	714.8	714.8
52.5°	726.6	726.6	727.8	730.4	727.8	726.6	726.6	727.8	685.0	675.9	673.3
55°	683.6	685.0	694.1	696.6	694.1	685.0	683.6	683.6	644.7	635.6	630.3
57.5°	639.4	639.4	645.9	645.9	645.9	639.4	639.4	636.8	599.1	591.4	588.8
60°	588.8	591.4	596.6	595.3	596.6	591.4	588.8	586.1	553.7	548.5	539.3
62.5°	535.5	538.1	539.3	536.8	539.3	538.1	535.5	527.7	508.2	504.3	492.6
65°	479.6	482.2	483.5	480.9	483.5	482.2	479.6	475.7	461.4	454.9	444.5
67.5°	422.4	421.1	419.8	425.0	419.8	421.1	422.4	417.3	408.1	402.9	388.7
70°	364.0	364.0	362.6	365.2	362.6	364.0	364.0	360.0	354.8	351.0	337.9
72.5°	301.6	300.2	305.4	301.6	305.4	300.2	301.6	300.2	297.7	293.7	280.7
75°	240.4	243.0	240.4	244.4	240.4	243.0	240.4	241.8	240.4	237.9	228.8
77.5°	183.2	185.9	183.2	183.2	183.2	185.9	183.2	184.6	184.6	184.6	176.7
80°	129.9	128.7	128.7	127.3	128.7	128.7	129.9	129.9	131.3	128.7	126.1
82.5°	83.1	81.9	81.9	84.5	81.9	81.9	83.1	84.5	81.9	81.9	81.9
85°	45.4	46.8	44.2	44.2	44.2	46.8	45.4	42.9	45.4	45.4	44.2
87.5°	16.9	15.6	15.6	15.6	15.6	15.6	16.9	18.2	18.2	18.2	19.5
90°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	20.3	26.9	30.3	26.1
92.5°	75.9	72.9	60.8	48.7	60.8	72.9	75.9	107.6	149.8	170.9	150.1
95°	257.7	248.5	211.9	175.4	211.9	248.5	257.7	338.4	445.9	499.7	422.0
97.5°	594.8	577.3	507.8	438.2	507.8	577.3	594.8	645.7	713.8	747.8	618.2
100°	835.2	814.4	731.6	648.6	731.6	814.4	835.2	831.5	826.6	824.0	680.3
102.5°	1040.5	1022.8	951.8	880.7	951.8	1022.8	1040.5	975.6	889.0	845.6	699.9
105°	1280.2	1270.6	1232.5	1194.3	1232.5	1270.6	1280.2	1134.6	940.3	843.2	702.1
107.5°	1404.9	1407.2	1416.4	1425.6	1416.4	1407.2	1404.9	1201.7	930.7	795.3	670.8
110°	1436.7	1446.7	1486.4	1526.3	1486.4	1446.7	1436.7	1209.6	906.8	755.3	643.1



TEST NUMBER: P934294

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1416.4	1431.7	1492.7	1553.8	1492.7	1431.7	1416.4	1183.9	873.9	719.0	619.0
115°	1347.3	1368.4	1453.1	1537.8	1453.1	1368.4	1347.3	1123.4	824.8	675.5	591.3
117.5°	1251.9	1275.3	1369.3	1463.2	1369.3	1275.3	1251.9	1049.7	780.2	645.5	573.8
120°	1187.5	1210.3	1301.6	1392.8	1301.6	1210.3	1187.5	1002.8	756.6	633.5	568.0
122.5°	1123.3	1145.7	1235.8	1325.8	1235.8	1145.7	1123.3	957.0	735.2	624.3	564.9
125°	1038.2	1058.9	1141.8	1224.7	1141.8	1058.9	1038.2	896.9	708.5	614.3	562.4
127.5°	969.9	987.3	1057.3	1127.2	1057.3	987.3	969.9	848.6	686.8	605.9	561.0
130°	926.7	942.8	1007.5	1072.1	1007.5	942.8	926.7	818.7	674.7	602.7	561.8
132.5°	889.9	904.4	962.3	1020.2	962.3	904.4	889.9	793.3	664.4	600.0	562.4
135°	838.0	850.5	900.4	950.3	900.4	850.5	838.0	757.1	649.1	595.2	561.8
137.5°	799.7	809.9	850.8	891.6	850.8	809.9	799.7	731.3	640.0	594.4	565.3
140°	768.9	778.4	816.6	854.8	816.6	778.4	768.9	709.8	631.0	591.6	565.9
142.5°	747.4	755.6	788.4	821.2	788.4	755.6	747.4	695.5	626.2	591.6	567.9
145°	715.0	721.2	746.1	770.9	746.1	721.2	715.0	672.6	615.9	587.6	568.0
147.5°	687.8	692.9	713.6	734.2	713.6	692.9	687.8	654.4	609.9	587.6	571.9
150°	672.3	676.5	693.1	709.8	693.1	676.5	672.3	644.1	606.4	587.6	573.9
152.5°	659.9	663.1	675.7	688.3	675.7	663.1	659.9	635.8	603.7	587.6	575.3
155°	645.1	647.2	655.5	663.9	655.5	647.2	645.1	625.9	600.4	587.6	578.2
157.5°	632.3	633.7	639.6	645.5	639.6	633.7	632.3	617.3	597.5	587.6	581.1
160°	625.9	626.7	630.1	633.5	630.1	626.7	625.9	613.1	596.1	587.6	582.5
162.5°	620.0	620.7	623.9	627.1	623.9	620.7	620.0	609.2	594.8	587.6	583.9
165°	610.8	611.6	614.9	618.3	614.9	611.6	610.8	603.0	592.7	587.6	585.9
167.5°	606.8	607.2	608.5	610.0	608.5	607.2	606.8	601.7	595.0	591.6	590.1
170°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	601.7	595.0	591.6	591.5
172.5°	603.6	603.3	602.0	600.8	602.0	603.3	603.6	599.6	594.3	591.6	591.6
175°	599.1	599.1	599.1	599.1	599.1	599.1	599.1	596.6	593.2	591.6	592.3
177.5°	598.4	598.0	596.6	595.2	596.6	598.0	598.4	596.3	593.7	592.3	592.9
180°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2



TEST NUMBER: P934294

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1356.9	1363.4	1367.4	1372.5	1385.5
5°	1305.0	1329.7	1337.4	1356.9	1380.3
7.5°	1190.5	1265.9	1286.7	1333.5	1369.9
10°	1080.0	1155.4	1191.9	1302.3	1356.9
12.5°	1024.1	1068.4	1093.0	1247.8	1338.7
15°	989.1	1020.3	1038.5	1174.9	1317.9
17.5°	961.8	983.9	996.9	1103.5	1289.4
20°	944.9	955.3	967.0	1051.5	1256.8
22.5°	933.2	926.8	935.8	1015.1	1212.6
25°	925.4	900.7	911.2	986.5	1160.7
27.5°	931.9	877.3	881.2	960.5	1106.1
30°	933.2	848.7	850.0	933.2	1045.0
32.5°	924.1	818.8	820.2	899.4	976.1
35°	902.0	783.7	782.5	860.4	882.5
37.5°	872.1	746.0	746.0	817.5	779.9
40°	835.8	708.3	712.2	761.6	688.9
42.5°	791.6	668.0	673.3	687.6	621.2
45°	743.4	629.1	633.0	581.0	569.3
47.5°	690.1	588.8	590.1	482.2	552.4
50°	626.5	547.2	542.0	413.3	551.1
52.5°	570.5	501.7	486.1	374.3	500.4
55°	516.0	453.6	419.8	344.4	464.0
57.5°	467.9	391.2	358.7	309.3	456.2
60°	423.7	330.1	305.4	271.6	418.5
62.5°	387.3	284.6	279.5	245.6	379.6
65°	348.4	253.5	252.1	223.5	322.3
67.5°	310.7	232.7	231.4	202.7	245.6
70°	270.4	210.6	207.9	180.6	182.0
72.5°	228.8	185.9	183.2	162.5	150.8
75°	187.1	157.3	156.0	141.7	122.2
77.5°	146.9	124.8	127.3	114.3	89.7
80°	105.2	91.0	93.6	81.9	67.5
82.5°	70.2	59.8	62.4	52.0	45.4
85°	39.0	33.8	35.1	27.3	20.8
87.5°	18.2	15.6	15.6	10.4	6.5
90°	17.5	11.1	10.4	7.2	4.0
92.5°	108.4	77.1	70.3	43.1	16.0
95°	266.7	150.2	137.8	88.1	38.4
97.5°	359.2	164.9	154.0	110.1	66.3
100°	392.9	177.3	167.3	127.6	87.9
102.5°	408.3	189.7	180.4	143.4	106.3
105°	419.9	208.1	200.3	168.8	137.4
107.5°	421.9	235.3	227.9	198.6	169.4
110°	418.8	250.5	243.9	217.3	190.9



TEST NUMBER: P934294

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	418.9	268.8	262.5	237.3	212.1
115°	422.8	296.4	290.6	267.3	244.1
117.5°	430.6	323.2	317.8	296.7	275.6
120°	437.0	338.8	333.8	313.9	294.0
122.5°	446.1	357.1	352.0	332.0	311.9
125°	458.5	380.6	376.1	357.8	339.5
127.5°	470.9	403.4	398.7	380.3	361.9
130°	479.9	418.6	413.7	393.7	373.8
132.5°	487.3	431.0	426.1	406.1	386.2
135°	495.3	445.4	440.8	422.8	404.7
137.5°	507.3	463.8	459.3	441.4	423.5
140°	514.6	476.2	472.0	455.5	439.0
142.5°	520.7	485.3	481.5	466.2	451.0
145°	528.8	499.3	496.0	482.7	469.4
147.5°	540.4	516.9	513.7	500.7	487.7
150°	546.6	526.1	523.2	511.4	499.7
152.5°	550.6	532.1	529.8	521.0	512.1
155°	559.4	545.3	543.6	537.0	530.4
157.5°	568.1	558.4	556.8	550.4	544.0
160°	572.2	564.4	563.2	558.2	553.2
162.5°	576.5	570.8	569.9	566.2	562.4
165°	582.5	579.9	579.1	575.8	572.4
167.5°	587.3	585.2	584.8	583.1	581.6
170°	591.3	591.2	590.8	589.2	587.6
172.5°	591.6	591.6	591.5	591.2	590.8
175°	594.0	595.2	595.2	595.2	595.2
177.5°	594.2	595.2	595.2	595.2	595.2
180°	595.2	595.2	595.2	595.2	595.2



TEST NUMBER: P934294
 CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3500K

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	11.06	11.90	12.03	12.89	14.19	13.89	14.74	14.87	15.73	17.03
	3H	11.53	12.29	12.52	13.28	14.61	15.24	16.00	16.23	16.99	18.31
	4H	11.72	12.44	12.72	13.44	14.77	15.69	16.40	16.68	17.40	18.73
	6H	11.84	12.50	12.85	13.50	14.85	15.97	16.63	16.98	17.64	18.98
	8H	11.84	12.47	12.86	13.49	14.83	16.05	16.67	17.06	17.70	19.03
	12H	11.81	12.41	12.83	13.42	14.79	16.09	16.68	17.11	17.70	19.06
4H	2H	12.09	12.80	13.09	13.80	15.13	14.30	15.02	15.31	16.02	17.35
	3H	13.11	13.71	14.13	14.74	16.08	15.81	16.40	16.82	17.43	18.78
	4H	13.39	13.93	14.41	14.96	16.32	16.34	16.88	17.36	17.90	19.27
	6H	13.51	13.98	14.55	15.03	16.39	16.70	17.17	17.74	18.22	19.58
	8H	13.52	13.96	14.55	14.99	16.37	16.81	17.25	17.84	18.29	19.66
	12H	13.48	13.88	14.54	14.93	16.32	16.87	17.26	17.92	18.32	19.70
8H	4H	13.84	14.28	14.88	15.32	16.70	16.46	16.90	17.49	17.94	19.31
	6H	14.10	14.47	15.16	15.55	16.92	16.90	17.26	17.95	18.34	19.71
	8H	14.15	14.46	15.21	15.53	16.92	17.05	17.37	18.11	18.43	19.83
	12H	14.13	14.41	15.20	15.47	16.90	17.15	17.43	18.22	18.49	19.92
12H	4H	13.85	14.24	14.90	15.30	16.68	16.42	16.82	17.47	17.87	19.25
	6H	14.16	14.48	15.23	15.55	16.94	16.89	17.21	17.96	18.28	19.67
	8H	14.23	14.51	15.30	15.57	17.01	17.06	17.34	18.12	18.40	19.83