

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: P934761

Luminaire Tested: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934761
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-93050-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

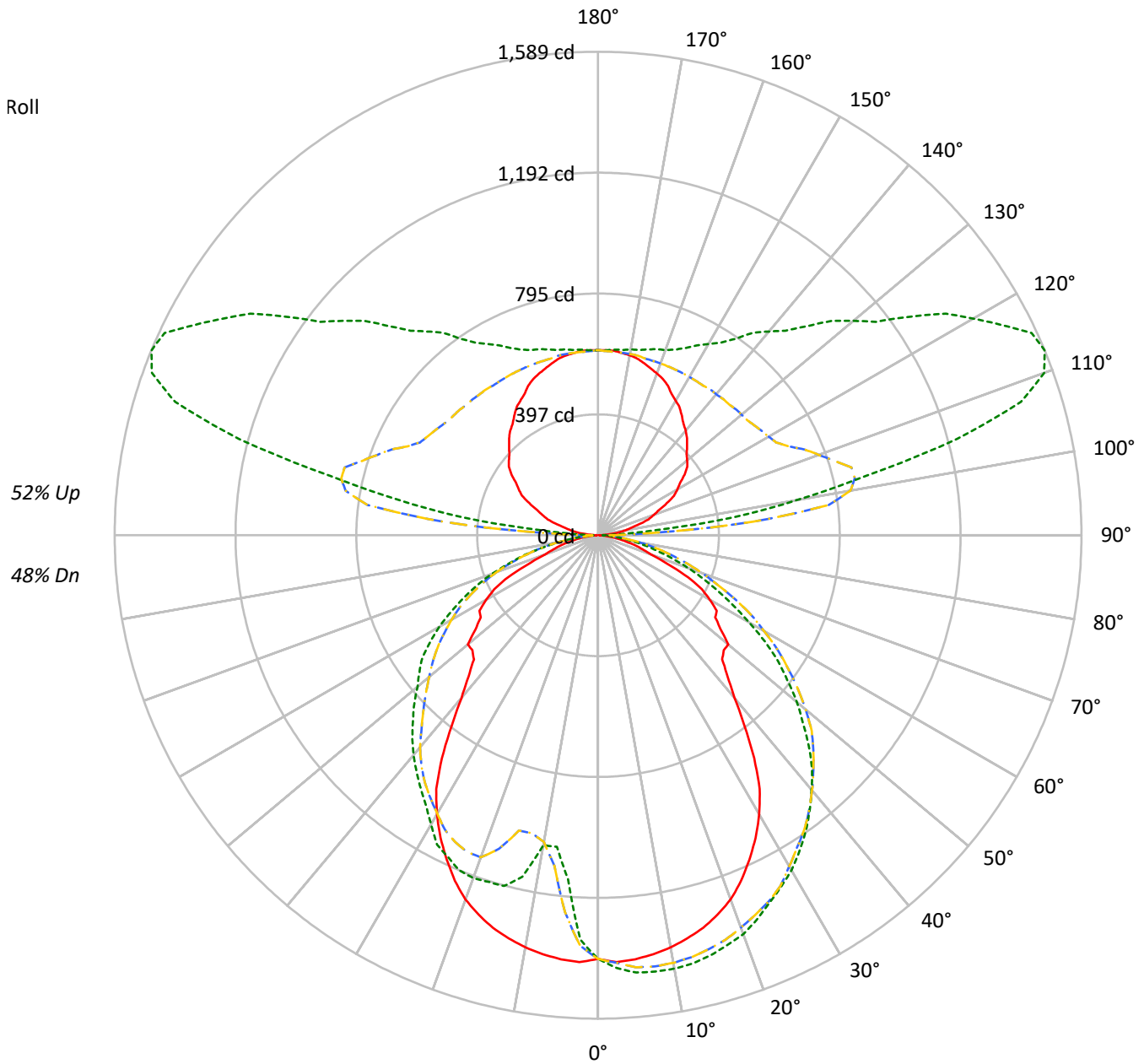
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7557.7 lumens
Efficiency: N/A
Efficacy: 118.8 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

TEST NUMBER: P934761
CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3000K

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°	8614	8614	8614	8614
5°	8675	8696	8675	6837
10°	8614	8566	8614	6124
15°	8518	8380	8518	6998
20°	8336	8161	8336	7012
25°	7968	7840	7968	6864
30°	7494	7573	7494	6537
35°	6677	7237	6677	6179
40°	5561	6841	5561	5908
45°	4965	6377	4965	5597
50°	5271	5823	5271	5284
55°	4954	5227	4954	5103
60°	5101	4439	5101	4674
65°	4617	3670	4617	4102
70°	3189	2925	3189	3438
75°	2786	2161	2786	2589
80°	2230	1430	2230	1556
85°	1258	757	1258	644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7616 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	1.7
10°-20°	356.9	4.7
20°-30°	551.7	7.3
30°-40°	658.6	8.7
40°-50°	662.5	8.8
50°-60°	576.4	7.6
60°-70°	408.7	5.4
70°-80°	216.2	2.9
80°-90°	56.2	0.7
90°-100°	296.6	3.9
100°-110°	779.8	10.3
110°-120°	808.6	10.7
120°-130°	648.6	8.6
130°-140°	508.9	6.7
140°-150°	390.6	5.2
150°-160°	281.3	3.7
160°-170°	172.1	2.3
170°-180°	58.1	0.8
0°-30°	1034.3	13.7
0°-40°	1692.9	22.4
0°-60°	2931.8	38.8
0°-90°	3612.9	47.8
90°-120°	1885.0	24.9
90°-150°	3433.2	45.4
90°-180°	3945.0	52.2
0°-180°	7557.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1392	1392	1392	1392	1392	
5°	1399	1443	1399	1134	1399	133
15°	1336	1429	1336	1194	1336	376
25°	1176	1333	1176	1167	1176	540
35°	894	1190	894	1016	894	553
45°	577	980	577	860	577	462
55°	470	723	470	706	470	432
65°	327	436	327	488	327	312
75°	124	207	124	248	124	130
85°	21	53	21	45	21	28
90°	4	16	4	16	4	4
95°	39	179	39	179	39	44
105°	140	1221	140	1221	140	149
115°	250	1572	250	1572	250	246
125°	347	1252	347	1252	347	308
135°	414	972	414	972	414	320
145°	480	788	480	788	480	301
155°	542	679	542	679	542	249
165°	585	632	585	632	585	165
175°	608	613	608	613	608	58
180°	608	608	608	608	608	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1404.4	1404.4	1412.3	1414.9	1414.9	1411.0	1407.0	1411.0	1422.8	1426.8	1425.5
5°	1399.1	1409.7	1424.2	1426.8	1429.4	1428.1	1425.5	1428.1	1441.3	1443.9	1445.2
7.5°	1388.6	1408.4	1426.8	1430.8	1434.7	1430.8	1429.4	1432.1	1445.2	1447.9	1447.9
10°	1375.4	1403.1	1424.2	1426.8	1430.8	1426.8	1426.8	1432.1	1445.2	1447.9	1449.2
12.5°	1357.0	1395.2	1414.9	1417.6	1422.8	1421.5	1420.2	1425.5	1438.7	1441.3	1441.3
15°	1335.9	1380.7	1399.1	1401.8	1411.0	1408.4	1408.4	1413.6	1428.1	1432.1	1430.8
17.5°	1306.9	1362.2	1383.3	1387.3	1393.9	1392.5	1393.9	1399.1	1412.3	1414.9	1416.3
20°	1274.0	1337.2	1362.2	1366.2	1372.8	1372.8	1372.8	1379.4	1392.5	1397.8	1397.8
22.5°	1229.2	1310.9	1337.2	1339.8	1347.8	1347.8	1350.4	1359.6	1371.5	1372.8	1372.8
25°	1176.5	1281.9	1304.3	1312.2	1320.1	1324.0	1328.0	1333.3	1337.2	1335.9	1337.2
27.5°	1121.2	1245.0	1274.0	1279.2	1289.8	1293.7	1299.0	1300.3	1301.6	1305.6	1303.0
30°	1059.2	1193.6	1237.1	1242.4	1259.5	1262.1	1256.8	1259.5	1266.1	1268.7	1271.3
32.5°	989.4	1117.2	1198.9	1210.7	1226.5	1218.6	1217.3	1221.3	1231.8	1231.8	1234.5
35°	894.5	1057.9	1163.3	1173.8	1185.7	1176.5	1181.8	1183.1	1189.7	1193.6	1192.3
37.5°	790.5	1006.5	1126.4	1134.3	1143.5	1131.7	1139.6	1143.5	1148.8	1146.2	1146.2
40°	698.2	926.2	1082.9	1088.2	1096.1	1086.9	1094.8	1097.4	1100.1	1097.4	1096.1
42.5°	629.7	837.9	1036.8	1043.4	1038.2	1044.7	1047.4	1052.6	1048.7	1043.4	1043.4
45°	577.0	814.2	986.8	994.7	986.8	997.3	1001.3	1001.3	989.4	986.8	985.5
47.5°	559.9	766.8	936.7	936.7	932.8	945.9	952.5	943.3	931.4	927.5	927.5
50°	558.6	714.1	868.2	862.9	881.4	897.2	890.6	881.4	872.2	857.7	857.7
52.5°	507.2	649.5	779.9	799.7	828.7	837.9	827.4	818.1	802.3	795.7	790.5
55°	470.3	582.3	699.6	739.1	769.4	781.2	761.5	752.3	728.6	724.6	722.0
57.5°	462.4	484.8	625.8	675.9	712.7	711.4	699.6	682.4	662.7	658.7	657.4
60°	424.2	350.4	546.7	606.0	644.2	640.3	629.7	613.9	595.5	592.9	590.2
62.5°	384.7	254.3	457.2	524.3	578.4	577.0	567.8	544.1	530.9	524.3	519.1
65°	326.7	213.4	325.4	436.1	513.8	516.4	496.7	479.6	465.1	457.2	455.8
67.5°	249.0	173.9	220.0	363.6	451.9	449.3	424.2	416.3	397.9	393.9	386.0
70°	184.4	115.9	152.8	295.1	391.3	384.7	364.9	355.7	338.6	329.4	324.1
72.5°	152.8	93.5	112.0	229.2	329.4	321.5	304.3	293.8	279.3	271.4	266.1
75°	123.8	98.8	85.6	170.0	267.4	262.2	246.4	235.8	224.0	213.4	214.7
77.5°	90.9	92.2	68.5	125.2	212.1	204.2	195.0	181.8	176.5	166.0	166.0
80°	68.5	72.5	51.4	85.6	152.8	152.8	144.9	135.7	126.5	121.2	121.2
82.5°	46.1	46.1	38.2	54.0	104.1	100.1	94.9	92.2	87.0	84.3	84.3
85°	21.1	26.3	23.7	32.9	56.7	59.3	59.3	56.7	55.3	52.7	54.0
87.5°	6.6	11.9	14.5	18.4	29.0	30.3	31.6	31.6	31.6	32.9	32.9
90°	4.0	7.3	10.6	11.4	17.9	26.6	31.0	27.6	20.7	15.5	15.5
92.5°	16.3	44.1	71.8	78.8	110.8	153.4	174.8	153.2	110.0	77.6	74.5
95°	39.2	90.0	140.8	153.5	272.6	431.5	510.9	455.9	345.9	263.4	254.1
97.5°	67.8	112.6	157.4	168.6	367.3	632.1	764.6	729.8	660.3	608.1	590.3
100°	89.9	130.5	171.2	181.4	401.7	695.6	842.6	845.1	850.2	854.0	832.8
102.5°	108.6	146.6	184.5	194.0	417.5	715.6	864.6	908.9	997.5	1063.9	1045.7
105°	140.5	172.7	204.8	212.8	429.2	717.8	862.1	961.4	1160.0	1308.9	1299.2
107.5°	173.2	203.2	233.1	240.6	431.4	685.9	813.1	951.6	1228.7	1436.4	1438.7
110°	195.2	222.3	249.3	256.0	428.1	657.6	772.3	927.1	1236.8	1469.0	1479.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	216.9	242.6	268.4	274.8	428.3	632.8	735.1	893.6	1210.5	1448.1	1463.8
115°	249.5	273.3	297.0	303.0	432.2	604.4	690.6	843.3	1148.6	1377.5	1399.1
117.5°	281.8	303.4	325.0	330.4	440.3	586.7	660.0	797.8	1073.3	1279.9	1303.9
120°	300.6	320.9	341.2	346.3	446.8	580.7	647.7	773.6	1025.3	1214.2	1237.5
122.5°	319.0	339.5	360.0	365.1	456.2	577.7	638.3	751.6	978.3	1148.4	1171.4
125°	347.1	365.8	384.5	389.2	468.8	575.0	628.2	724.4	917.0	1061.4	1082.6
127.5°	370.0	388.9	407.7	412.5	481.5	573.5	619.6	702.2	867.6	991.6	1009.5
130°	382.2	402.6	422.9	428.0	490.8	574.5	616.3	689.9	837.1	947.5	964.0
132.5°	394.9	415.3	435.5	440.6	498.3	575.0	613.4	679.3	811.1	909.9	924.7
135°	413.7	432.2	450.7	455.4	506.4	574.5	608.5	663.6	774.0	856.8	869.5
137.5°	432.9	451.2	469.5	474.1	518.6	578.0	607.7	654.3	747.6	817.6	828.1
140°	448.8	465.7	482.6	486.8	526.2	578.6	604.8	645.1	725.7	786.2	795.9
142.5°	461.1	476.7	492.4	496.2	532.4	580.6	604.8	640.2	711.0	764.1	772.6
145°	479.9	493.5	507.0	510.5	540.6	580.7	600.8	629.7	687.6	731.0	737.3
147.5°	498.6	511.9	525.1	528.5	552.5	584.7	600.8	623.5	669.1	703.3	708.5
150°	510.9	522.9	534.9	537.9	558.9	586.8	600.8	620.0	658.5	687.4	691.7
152.5°	523.6	532.7	541.7	544.0	562.9	588.1	600.8	617.2	650.0	674.7	678.0
155°	542.4	549.0	555.8	557.5	571.9	591.1	600.8	613.8	640.0	659.6	661.7
157.5°	556.2	562.8	569.3	571.0	580.9	594.2	600.8	610.9	631.2	646.5	648.0
160°	565.6	570.7	575.8	577.0	584.9	595.5	600.8	609.5	626.8	639.9	640.8
162.5°	575.0	578.9	582.7	583.6	589.3	597.0	600.8	608.1	622.8	633.9	634.7
165°	585.2	588.7	592.2	593.0	595.6	599.0	600.8	606.0	616.6	624.5	625.4
167.5°	594.6	596.3	597.9	598.3	600.5	603.4	604.8	608.2	615.2	620.3	620.7
170°	600.8	602.4	604.0	604.4	604.5	604.7	604.8	608.2	615.2	620.3	620.3
172.5°	604.0	604.4	604.7	604.8	604.8	604.8	604.8	607.5	613.0	617.1	616.7
175°	608.5	608.5	608.5	608.5	607.3	605.6	604.8	606.6	610.0	612.6	612.6
177.5°	608.5	608.5	608.5	608.5	607.5	606.3	605.7	607.1	609.8	611.8	611.5
180°	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1428.1	1424.2	1428.1	1425.5	1426.8	1422.8	1411.0	1407.0	1411.0	1414.9	1414.9
5°	1445.2	1442.6	1445.2	1445.2	1443.9	1441.3	1428.1	1425.5	1428.1	1429.4	1426.8
7.5°	1450.5	1446.6	1450.5	1447.9	1447.9	1445.2	1432.1	1429.4	1430.8	1434.7	1430.8
10°	1450.5	1446.6	1450.5	1449.2	1447.9	1445.2	1432.1	1426.8	1426.8	1430.8	1426.8
12.5°	1443.9	1441.3	1443.9	1441.3	1441.3	1438.7	1425.5	1420.2	1421.5	1422.8	1417.6
15°	1433.4	1429.4	1433.4	1430.8	1432.1	1428.1	1413.6	1408.4	1408.4	1411.0	1401.8
17.5°	1417.6	1412.3	1417.6	1416.3	1414.9	1412.3	1399.1	1393.9	1392.5	1393.9	1387.3
20°	1399.1	1395.2	1399.1	1397.8	1397.8	1392.5	1379.4	1372.8	1372.8	1372.8	1366.2
22.5°	1370.1	1366.2	1370.1	1372.8	1372.8	1371.5	1359.6	1350.4	1347.8	1347.8	1339.8
25°	1337.2	1333.3	1337.2	1337.2	1335.9	1337.2	1333.3	1328.0	1324.0	1320.1	1312.2
27.5°	1305.6	1303.0	1305.6	1303.0	1305.6	1301.6	1300.3	1299.0	1293.7	1289.8	1279.2
30°	1274.0	1271.3	1274.0	1271.3	1268.7	1266.1	1259.5	1256.8	1262.1	1259.5	1242.4
32.5°	1234.5	1231.8	1234.5	1234.5	1231.8	1231.8	1221.3	1217.3	1218.6	1226.5	1210.7
35°	1193.6	1189.7	1193.6	1192.3	1193.6	1189.7	1183.1	1181.8	1176.5	1185.7	1173.8
37.5°	1146.2	1142.2	1146.2	1146.2	1146.2	1148.8	1143.5	1139.6	1131.7	1143.5	1134.3
40°	1097.4	1092.2	1097.4	1096.1	1097.4	1100.1	1097.4	1094.8	1086.9	1096.1	1088.2
42.5°	1042.1	1040.8	1042.1	1043.4	1043.4	1048.7	1052.6	1047.4	1044.7	1038.2	1043.4
45°	982.8	980.2	982.8	985.5	986.8	989.4	1001.3	1001.3	997.3	986.8	994.7
47.5°	919.6	913.0	919.6	927.5	927.5	931.4	943.3	952.5	945.9	932.8	936.7
50°	852.4	853.7	852.4	857.7	857.7	872.2	881.4	890.6	897.2	881.4	862.9
52.5°	786.5	785.2	786.5	790.5	795.7	802.3	818.1	827.4	837.9	828.7	799.7
55°	720.6	723.3	720.6	722.0	724.6	728.6	752.3	761.5	781.2	769.4	739.1
57.5°	654.8	650.8	654.8	657.4	658.7	662.7	682.4	699.6	711.4	712.7	675.9
60°	578.4	573.1	578.4	590.2	592.9	595.5	613.9	629.7	640.3	644.2	606.0
62.5°	511.2	501.9	511.2	519.1	524.3	530.9	544.1	567.8	577.0	578.4	524.3
65°	440.0	436.1	440.0	455.8	457.2	465.1	479.6	496.7	516.4	513.8	436.1
67.5°	375.5	375.5	375.5	386.0	393.9	397.9	416.3	424.2	449.3	451.9	363.6
70°	316.2	314.9	316.2	324.1	329.4	338.6	355.7	364.9	384.7	391.3	295.1
72.5°	259.5	258.2	259.5	266.1	271.4	279.3	293.8	304.3	321.5	329.4	229.2
75°	209.5	206.8	209.5	214.7	213.4	224.0	235.8	246.4	262.2	267.4	170.0
77.5°	160.7	160.7	160.7	166.0	166.0	176.5	181.8	195.0	204.2	212.1	125.2
80°	119.9	118.6	119.9	121.2	121.2	126.5	135.7	144.9	152.8	152.8	85.6
82.5°	84.3	81.7	84.3	84.3	84.3	87.0	92.2	94.9	100.1	104.1	54.0
85°	52.7	52.7	52.7	54.0	52.7	55.3	56.7	59.3	59.3	56.7	32.9
87.5°	34.3	32.9	34.3	32.9	32.9	31.6	31.6	31.6	30.3	29.0	18.4
90°	15.5	15.5	15.5	15.5	15.5	20.7	27.6	31.0	26.6	17.9	11.4
92.5°	62.1	49.8	62.1	74.5	77.6	110.0	153.2	174.8	153.4	110.8	78.8
95°	216.7	179.3	216.7	254.1	263.4	345.9	455.9	510.9	431.5	272.6	153.5
97.5°	519.2	448.0	519.2	590.3	608.1	660.3	729.8	764.6	632.1	367.3	168.6
100°	748.0	663.2	748.0	832.8	854.0	850.2	845.1	842.6	695.6	401.7	181.4
102.5°	973.2	900.5	973.2	1045.7	1063.9	997.5	908.9	864.6	715.6	417.5	194.0
105°	1260.1	1221.1	1260.1	1299.2	1308.9	1160.0	961.4	862.1	717.8	429.2	212.8
107.5°	1448.1	1457.5	1448.1	1438.7	1436.4	1228.7	951.6	813.1	685.9	431.4	240.6
110°	1519.8	1560.5	1519.8	1479.2	1469.0	1236.8	927.1	772.3	657.6	428.1	256.0



TEST NUMBER: P934761

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1526.2	1588.7	1526.2	1463.8	1448.1	1210.5	893.6	735.1	632.8	428.3	274.8
115°	1485.7	1572.3	1485.7	1399.1	1377.5	1148.6	843.3	690.6	604.4	432.2	303.0
117.5°	1399.9	1495.9	1399.9	1303.9	1279.9	1073.3	797.8	660.0	586.7	440.3	330.4
120°	1330.8	1424.1	1330.8	1237.5	1214.2	1025.3	773.6	647.7	580.7	446.8	346.3
122.5°	1263.4	1355.5	1263.4	1171.4	1148.4	978.3	751.6	638.3	577.7	456.2	365.1
125°	1167.4	1252.2	1167.4	1082.6	1061.4	917.0	724.4	628.2	575.0	468.8	389.2
127.5°	1081.0	1152.5	1081.0	1009.5	991.6	867.6	702.2	619.6	573.5	481.5	412.5
130°	1030.1	1096.1	1030.1	964.0	947.5	837.1	689.9	616.3	574.5	490.8	428.0
132.5°	983.9	1043.1	983.9	924.7	909.9	811.1	679.3	613.4	575.0	498.3	440.6
135°	920.5	971.6	920.5	869.5	856.8	774.0	663.6	608.5	574.5	506.4	455.4
137.5°	869.8	911.6	869.8	828.1	817.6	747.6	654.3	607.7	578.0	518.6	474.1
140°	835.0	874.0	835.0	795.9	786.2	725.7	645.1	604.8	578.6	526.2	486.8
142.5°	806.1	839.7	806.1	772.6	764.1	711.0	640.2	604.8	580.6	532.4	496.2
145°	762.8	788.2	762.8	737.3	731.0	687.6	629.7	600.8	580.7	540.6	510.5
147.5°	729.5	750.6	729.5	708.5	703.3	669.1	623.5	600.8	584.7	552.5	528.5
150°	708.7	725.7	708.7	691.7	687.4	658.5	620.0	600.8	586.8	558.9	537.9
152.5°	690.8	703.7	690.8	678.0	674.7	650.0	617.2	600.8	588.1	562.9	544.0
155°	670.2	678.8	670.2	661.7	659.6	640.0	613.8	600.8	591.1	571.9	557.5
157.5°	654.0	660.0	654.0	648.0	646.5	631.2	610.9	600.8	594.2	580.9	571.0
160°	644.2	647.7	644.2	640.8	639.9	626.8	609.5	600.8	595.5	584.9	577.0
162.5°	637.9	641.2	637.9	634.7	633.9	622.8	608.1	600.8	597.0	589.3	583.6
165°	628.8	632.2	628.8	625.4	624.5	616.6	606.0	600.8	599.0	595.6	593.0
167.5°	622.2	623.6	622.2	620.7	620.3	615.2	608.2	604.8	603.4	600.5	598.3
170°	620.3	620.3	620.3	620.3	620.3	615.2	608.2	604.8	604.7	604.5	604.4
172.5°	615.5	614.2	615.5	616.7	617.1	613.0	607.5	604.8	604.8	604.8	604.8
175°	612.6	612.6	612.6	612.6	612.6	610.0	606.6	604.8	605.6	607.3	608.5
177.5°	610.0	608.5	610.0	611.5	611.8	609.8	607.1	605.7	606.3	607.5	608.5
180°	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5



TEST NUMBER: P934761

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1412.3	1404.4	1404.4	1391.2	1386.0	1382.0	1375.4	1355.7	1350.4	1345.1	1353.0
5°	1424.2	1409.7	1399.1	1375.4	1355.7	1347.8	1322.7	1275.3	1243.7	1220.0	1206.8
7.5°	1426.8	1408.4	1388.6	1351.7	1304.3	1283.2	1206.8	1119.8	1096.1	1075.0	1061.9
10°	1424.2	1403.1	1375.4	1320.1	1208.1	1171.2	1094.8	1038.2	1023.7	1019.7	1023.7
12.5°	1414.9	1395.2	1357.0	1264.8	1108.0	1082.9	1038.2	1005.2	1002.6	1009.2	1044.7
15°	1399.1	1380.7	1335.9	1191.0	1052.6	1034.2	1002.6	990.7	1005.2	1051.3	1158.0
17.5°	1383.3	1362.2	1306.9	1118.5	1010.5	997.3	974.9	998.6	1080.3	1142.2	1177.8
20°	1362.2	1337.2	1274.0	1065.8	980.2	968.3	957.8	1064.5	1126.4	1148.8	1168.6
22.5°	1337.2	1310.9	1229.2	1028.9	948.6	939.3	945.9	1101.4	1126.4	1142.2	1159.4
25°	1304.3	1281.9	1176.5	999.9	923.5	913.0	938.0	1097.4	1111.9	1115.9	1150.1
27.5°	1274.0	1245.0	1121.2	973.6	893.2	889.3	944.6	1080.3	1090.8	1094.8	1131.7
30°	1237.1	1193.6	1059.2	945.9	861.6	860.3	945.9	1059.2	1056.6	1067.1	1104.0
32.5°	1198.9	1117.2	989.4	911.7	831.3	830.0	936.7	1027.6	1025.0	1039.5	1067.1
35°	1163.3	1057.9	894.5	872.2	793.1	794.4	914.3	990.7	992.0	1005.2	1022.3
37.5°	1126.4	1006.5	790.5	828.7	756.2	756.2	884.0	956.5	953.8	957.8	981.5
40°	1082.9	926.2	698.2	772.0	722.0	718.0	847.1	919.6	910.4	909.0	942.0
42.5°	1036.8	837.9	629.7	696.9	682.4	677.2	802.3	874.8	857.7	861.6	903.8
45°	986.8	814.2	577.0	588.9	641.6	637.6	753.6	823.4	811.6	822.1	865.6
47.5°	936.7	766.8	559.9	488.8	598.1	596.8	699.6	773.3	766.8	777.3	823.4
50°	868.2	714.1	558.6	418.9	549.4	554.6	635.0	724.6	724.6	733.8	782.6
52.5°	779.9	649.5	507.2	379.4	492.7	508.5	578.4	682.4	685.1	694.3	737.8
55°	699.6	582.3	470.3	349.1	425.5	459.8	523.0	639.0	644.2	653.5	693.0
57.5°	625.8	484.8	462.4	313.6	363.6	396.6	474.3	596.8	599.4	607.3	645.6
60°	546.7	350.4	424.2	275.3	309.6	334.6	429.5	546.7	556.0	561.2	594.2
62.5°	457.2	254.3	384.7	249.0	283.3	288.5	392.6	499.3	511.2	515.1	534.9
65°	325.4	213.4	326.7	226.6	255.6	256.9	353.1	450.6	461.1	467.7	482.2
67.5°	220.0	173.9	249.0	205.5	234.5	235.8	314.9	393.9	408.4	413.7	422.9
70°	152.8	115.9	184.4	183.1	210.8	213.4	274.0	342.5	355.7	359.7	364.9
72.5°	112.0	93.5	152.8	164.7	185.8	188.4	231.9	284.6	297.7	301.7	304.3
75°	85.6	98.8	123.8	143.6	158.1	159.4	189.7	231.9	241.1	243.7	245.0
77.5°	68.5	92.2	90.9	115.9	129.1	126.5	148.9	179.2	187.1	187.1	187.1
80°	51.4	72.5	68.5	83.0	94.9	92.2	106.7	127.8	130.4	133.1	131.7
82.5°	38.2	46.1	46.1	52.7	63.2	60.6	71.1	83.0	83.0	83.0	85.6
85°	23.7	26.3	21.1	27.7	35.6	34.3	39.5	44.8	46.1	46.1	43.5
87.5°	14.5	11.9	6.6	10.5	15.8	15.8	18.4	19.8	18.4	18.4	18.4
90°	10.6	7.3	4.0	7.3	10.6	11.4	17.9	26.6	31.0	27.6	20.7
92.5°	71.8	44.1	16.3	44.1	71.8	78.8	110.8	153.4	174.8	153.2	110.0
95°	140.8	90.0	39.2	90.0	140.8	153.5	272.6	431.5	510.9	455.9	345.9
97.5°	157.4	112.6	67.8	112.6	157.4	168.6	367.3	632.1	764.6	729.8	660.3
100°	171.2	130.5	89.9	130.5	171.2	181.4	401.7	695.6	842.6	845.1	850.2
102.5°	184.5	146.6	108.6	146.6	184.5	194.0	417.5	715.6	864.6	908.9	997.5
105°	204.8	172.7	140.5	172.7	204.8	212.8	429.2	717.8	862.1	961.4	1160.0
107.5°	233.1	203.2	173.2	203.2	233.1	240.6	431.4	685.9	813.1	951.6	1228.7
110°	249.3	222.3	195.2	222.3	249.3	256.0	428.1	657.6	772.3	927.1	1236.8



TEST NUMBER: P934761

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	268.4	242.6	216.9	242.6	268.4	274.8	428.3	632.8	735.1	893.6	1210.5
115°	297.0	273.3	249.5	273.3	297.0	303.0	432.2	604.4	690.6	843.3	1148.6
117.5°	325.0	303.4	281.8	303.4	325.0	330.4	440.3	586.7	660.0	797.8	1073.3
120°	341.2	320.9	300.6	320.9	341.2	346.3	446.8	580.7	647.7	773.6	1025.3
122.5°	360.0	339.5	319.0	339.5	360.0	365.1	456.2	577.7	638.3	751.6	978.3
125°	384.5	365.8	347.1	365.8	384.5	389.2	468.8	575.0	628.2	724.4	917.0
127.5°	407.7	388.9	370.0	388.9	407.7	412.5	481.5	573.5	619.6	702.2	867.6
130°	422.9	402.6	382.2	402.6	422.9	428.0	490.8	574.5	616.3	689.9	837.1
132.5°	435.5	415.3	394.9	415.3	435.5	440.6	498.3	575.0	613.4	679.3	811.1
135°	450.7	432.2	413.7	432.2	450.7	455.4	506.4	574.5	608.5	663.6	774.0
137.5°	469.5	451.2	432.9	451.2	469.5	474.1	518.6	578.0	607.7	654.3	747.6
140°	482.6	465.7	448.8	465.7	482.6	486.8	526.2	578.6	604.8	645.1	725.7
142.5°	492.4	476.7	461.1	476.7	492.4	496.2	532.4	580.6	604.8	640.2	711.0
145°	507.0	493.5	479.9	493.5	507.0	510.5	540.6	580.7	600.8	629.7	687.6
147.5°	525.1	511.9	498.6	511.9	525.1	528.5	552.5	584.7	600.8	623.5	669.1
150°	534.9	522.9	510.9	522.9	534.9	537.9	558.9	586.8	600.8	620.0	658.5
152.5°	541.7	532.7	523.6	532.7	541.7	544.0	562.9	588.1	600.8	617.2	650.0
155°	555.8	549.0	542.4	549.0	555.8	557.5	571.9	591.1	600.8	613.8	640.0
157.5°	569.3	562.8	556.2	562.8	569.3	571.0	580.9	594.2	600.8	610.9	631.2
160°	575.8	570.7	565.6	570.7	575.8	577.0	584.9	595.5	600.8	609.5	626.8
162.5°	582.7	578.9	575.0	578.9	582.7	583.6	589.3	597.0	600.8	608.1	622.8
165°	592.2	588.7	585.2	588.7	592.2	593.0	595.6	599.0	600.8	606.0	616.6
167.5°	597.9	596.3	594.6	596.3	597.9	598.3	600.5	603.4	604.8	608.2	615.2
170°	604.0	602.4	600.8	602.4	604.0	604.4	604.5	604.7	604.8	608.2	615.2
172.5°	604.7	604.4	604.0	604.4	604.7	604.8	604.8	604.8	604.8	607.5	613.0
175°	608.5	608.5	608.5	608.5	608.5	608.5	607.3	605.6	604.8	606.6	610.0
177.5°	608.5	608.5	608.5	608.5	608.5	608.5	607.5	606.3	605.7	607.1	609.8
180°	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5



TEST NUMBER: P934761
 CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1343.8	1339.8	1345.1	1330.6	1345.1	1339.8	1343.8	1353.0	1345.1	1350.4	1355.7
5°	1179.1	1172.5	1151.5	1134.3	1151.5	1172.5	1179.1	1206.8	1220.0	1243.7	1275.3
7.5°	1054.0	1048.7	1043.4	1032.9	1043.4	1048.7	1054.0	1061.9	1075.0	1096.1	1119.8
10°	1026.3	1027.6	1035.5	1034.2	1035.5	1027.6	1026.3	1023.7	1019.7	1023.7	1038.2
12.5°	1097.4	1109.3	1152.8	1150.1	1152.8	1109.3	1097.4	1044.7	1009.2	1002.6	1005.2
15°	1179.1	1183.1	1192.3	1193.6	1192.3	1183.1	1179.1	1158.0	1051.3	1005.2	990.7
17.5°	1187.0	1188.3	1194.9	1194.9	1194.9	1188.3	1187.0	1177.8	1142.2	1080.3	998.6
20°	1180.4	1183.1	1196.2	1198.9	1196.2	1183.1	1180.4	1168.6	1148.8	1126.4	1064.5
22.5°	1177.8	1183.1	1193.6	1192.3	1193.6	1183.1	1177.8	1159.4	1142.2	1126.4	1101.4
25°	1164.6	1164.6	1165.9	1167.3	1165.9	1164.6	1164.6	1150.1	1115.9	1111.9	1097.4
27.5°	1137.0	1139.6	1147.5	1146.2	1147.5	1139.6	1137.0	1131.7	1094.8	1090.8	1080.3
30°	1111.9	1109.3	1102.7	1097.4	1102.7	1109.3	1111.9	1104.0	1067.1	1056.6	1059.2
32.5°	1069.8	1063.2	1056.6	1052.6	1056.6	1063.2	1069.8	1067.1	1039.5	1025.0	1027.6
35°	1019.7	1021.0	1019.7	1015.8	1019.7	1021.0	1019.7	1022.3	1005.2	992.0	990.7
37.5°	984.1	986.8	985.5	980.2	985.5	986.8	984.1	981.5	957.8	953.8	956.5
40°	947.2	948.6	947.2	943.3	947.2	948.6	947.2	942.0	909.0	910.4	919.6
42.5°	911.7	910.4	906.4	903.8	906.4	910.4	911.7	903.8	861.6	857.7	874.8
45°	870.8	872.2	864.2	860.3	864.2	872.2	870.8	865.6	822.1	811.6	823.4
47.5°	830.0	830.0	823.4	819.5	823.4	830.0	830.0	823.4	777.3	766.8	773.3
50°	786.5	785.2	776.0	774.7	776.0	785.2	786.5	782.6	733.8	724.6	724.6
52.5°	736.5	736.5	737.8	740.4	737.8	736.5	736.5	737.8	694.3	685.1	682.4
55°	693.0	694.3	703.5	706.2	703.5	694.3	693.0	693.0	653.5	644.2	639.0
57.5°	648.2	648.2	654.8	654.8	654.8	648.2	648.2	645.6	607.3	599.4	596.8
60°	596.8	599.4	604.7	603.4	604.7	599.4	596.8	594.2	561.2	556.0	546.7
62.5°	542.8	545.4	546.7	544.1	546.7	545.4	542.8	534.9	515.1	511.2	499.3
65°	486.1	488.8	490.1	487.5	490.1	488.8	486.1	482.2	467.7	461.1	450.6
67.5°	428.2	426.9	425.5	430.8	425.5	426.9	428.2	422.9	413.7	408.4	393.9
70°	368.9	368.9	367.6	370.2	367.6	368.9	368.9	364.9	359.7	355.7	342.5
72.5°	305.6	304.3	309.6	305.6	309.6	304.3	305.6	304.3	301.7	297.7	284.6
75°	243.7	246.4	243.7	247.7	243.7	246.4	243.7	245.0	243.7	241.1	231.9
77.5°	185.8	188.4	185.8	185.8	185.8	188.4	185.8	187.1	187.1	187.1	179.2
80°	131.7	130.4	130.4	129.1	130.4	130.4	131.7	131.7	133.1	130.4	127.8
82.5°	84.3	83.0	83.0	85.6	83.0	83.0	84.3	85.6	83.0	83.0	83.0
85°	46.1	47.4	44.8	44.8	44.8	47.4	46.1	43.5	46.1	46.1	44.8
87.5°	17.1	15.8	15.8	15.8	15.8	15.8	17.1	18.4	18.4	18.4	19.8
90°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	20.7	27.6	31.0	26.6
92.5°	77.6	74.5	62.1	49.8	62.1	74.5	77.6	110.0	153.2	174.8	153.4
95°	263.4	254.1	216.7	179.3	216.7	254.1	263.4	345.9	455.9	510.9	431.5
97.5°	608.1	590.3	519.2	448.0	519.2	590.3	608.1	660.3	729.8	764.6	632.1
100°	854.0	832.8	748.0	663.2	748.0	832.8	854.0	850.2	845.1	842.6	695.6
102.5°	1063.9	1045.7	973.2	900.5	973.2	1045.7	1063.9	997.5	908.9	864.6	715.6
105°	1308.9	1299.2	1260.1	1221.1	1260.1	1299.2	1308.9	1160.0	961.4	862.1	717.8
107.5°	1436.4	1438.7	1448.1	1457.5	1448.1	1438.7	1436.4	1228.7	951.6	813.1	685.9
110°	1469.0	1479.2	1519.8	1560.5	1519.8	1479.2	1469.0	1236.8	927.1	772.3	657.6



TEST NUMBER: P934761

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1448.1	1463.8	1526.2	1588.7	1526.2	1463.8	1448.1	1210.5	893.6	735.1	632.8
115°	1377.5	1399.1	1485.7	1572.3	1485.7	1399.1	1377.5	1148.6	843.3	690.6	604.4
117.5°	1279.9	1303.9	1399.9	1495.9	1399.9	1303.9	1279.9	1073.3	797.8	660.0	586.7
120°	1214.2	1237.5	1330.8	1424.1	1330.8	1237.5	1214.2	1025.3	773.6	647.7	580.7
122.5°	1148.4	1171.4	1263.4	1355.5	1263.4	1171.4	1148.4	978.3	751.6	638.3	577.7
125°	1061.4	1082.6	1167.4	1252.2	1167.4	1082.6	1061.4	917.0	724.4	628.2	575.0
127.5°	991.6	1009.5	1081.0	1152.5	1081.0	1009.5	991.6	867.6	702.2	619.6	573.5
130°	947.5	964.0	1030.1	1096.1	1030.1	964.0	947.5	837.1	689.9	616.3	574.5
132.5°	909.9	924.7	983.9	1043.1	983.9	924.7	909.9	811.1	679.3	613.4	575.0
135°	856.8	869.5	920.5	971.6	920.5	869.5	856.8	774.0	663.6	608.5	574.5
137.5°	817.6	828.1	869.8	911.6	869.8	828.1	817.6	747.6	654.3	607.7	578.0
140°	786.2	795.9	835.0	874.0	835.0	795.9	786.2	725.7	645.1	604.8	578.6
142.5°	764.1	772.6	806.1	839.7	806.1	772.6	764.1	711.0	640.2	604.8	580.6
145°	731.0	737.3	762.8	788.2	762.8	737.3	731.0	687.6	629.7	600.8	580.7
147.5°	703.3	708.5	729.5	750.6	729.5	708.5	703.3	669.1	623.5	600.8	584.7
150°	687.4	691.7	708.7	725.7	708.7	691.7	687.4	658.5	620.0	600.8	586.8
152.5°	674.7	678.0	690.8	703.7	690.8	678.0	674.7	650.0	617.2	600.8	588.1
155°	659.6	661.7	670.2	678.8	670.2	661.7	659.6	640.0	613.8	600.8	591.1
157.5°	646.5	648.0	654.0	660.0	654.0	648.0	646.5	631.2	610.9	600.8	594.2
160°	639.9	640.8	644.2	647.7	644.2	640.8	639.9	626.8	609.5	600.8	595.5
162.5°	633.9	634.7	637.9	641.2	637.9	634.7	633.9	622.8	608.1	600.8	597.0
165°	624.5	625.4	628.8	632.2	628.8	625.4	624.5	616.6	606.0	600.8	599.0
167.5°	620.3	620.7	622.2	623.6	622.2	620.7	620.3	615.2	608.2	604.8	603.4
170°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	615.2	608.2	604.8	604.7
172.5°	617.1	616.7	615.5	614.2	615.5	616.7	617.1	613.0	607.5	604.8	604.8
175°	612.6	612.6	612.6	612.6	612.6	612.6	612.6	610.0	606.6	604.8	605.6
177.5°	611.8	611.5	610.0	608.5	610.0	611.5	611.8	609.8	607.1	605.7	606.3
180°	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5



TEST NUMBER: P934761

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1375.4	1382.0	1386.0	1391.2	1404.4
5°	1322.7	1347.8	1355.7	1375.4	1399.1
7.5°	1206.8	1283.2	1304.3	1351.7	1388.6
10°	1094.8	1171.2	1208.1	1320.1	1375.4
12.5°	1038.2	1082.9	1108.0	1264.8	1357.0
15°	1002.6	1034.2	1052.6	1191.0	1335.9
17.5°	974.9	997.3	1010.5	1118.5	1306.9
20°	957.8	968.3	980.2	1065.8	1274.0
22.5°	945.9	939.3	948.6	1028.9	1229.2
25°	938.0	913.0	923.5	999.9	1176.5
27.5°	944.6	889.3	893.2	973.6	1121.2
30°	945.9	860.3	861.6	945.9	1059.2
32.5°	936.7	830.0	831.3	911.7	989.4
35°	914.3	794.4	793.1	872.2	894.5
37.5°	884.0	756.2	756.2	828.7	790.5
40°	847.1	718.0	722.0	772.0	698.2
42.5°	802.3	677.2	682.4	696.9	629.7
45°	753.6	637.6	641.6	588.9	577.0
47.5°	699.6	596.8	598.1	488.8	559.9
50°	635.0	554.6	549.4	418.9	558.6
52.5°	578.4	508.5	492.7	379.4	507.2
55°	523.0	459.8	425.5	349.1	470.3
57.5°	474.3	396.6	363.6	313.6	462.4
60°	429.5	334.6	309.6	275.3	424.2
62.5°	392.6	288.5	283.3	249.0	384.7
65°	353.1	256.9	255.6	226.6	326.7
67.5°	314.9	235.8	234.5	205.5	249.0
70°	274.0	213.4	210.8	183.1	184.4
72.5°	231.9	188.4	185.8	164.7	152.8
75°	189.7	159.4	158.1	143.6	123.8
77.5°	148.9	126.5	129.1	115.9	90.9
80°	106.7	92.2	94.9	83.0	68.5
82.5°	71.1	60.6	63.2	52.7	46.1
85°	39.5	34.3	35.6	27.7	21.1
87.5°	18.4	15.8	15.8	10.5	6.6
90°	17.9	11.4	10.6	7.3	4.0
92.5°	110.8	78.8	71.8	44.1	16.3
95°	272.6	153.5	140.8	90.0	39.2
97.5°	367.3	168.6	157.4	112.6	67.8
100°	401.7	181.4	171.2	130.5	89.9
102.5°	417.5	194.0	184.5	146.6	108.6
105°	429.2	212.8	204.8	172.7	140.5
107.5°	431.4	240.6	233.1	203.2	173.2
110°	428.1	256.0	249.3	222.3	195.2



TEST NUMBER: P934761

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	428.3	274.8	268.4	242.6	216.9
115°	432.2	303.0	297.0	273.3	249.5
117.5°	440.3	330.4	325.0	303.4	281.8
120°	446.8	346.3	341.2	320.9	300.6
122.5°	456.2	365.1	360.0	339.5	319.0
125°	468.8	389.2	384.5	365.8	347.1
127.5°	481.5	412.5	407.7	388.9	370.0
130°	490.8	428.0	422.9	402.6	382.2
132.5°	498.3	440.6	435.5	415.3	394.9
135°	506.4	455.4	450.7	432.2	413.7
137.5°	518.6	474.1	469.5	451.2	432.9
140°	526.2	486.8	482.6	465.7	448.8
142.5°	532.4	496.2	492.4	476.7	461.1
145°	540.6	510.5	507.0	493.5	479.9
147.5°	552.5	528.5	525.1	511.9	498.6
150°	558.9	537.9	534.9	522.9	510.9
152.5°	562.9	544.0	541.7	532.7	523.6
155°	571.9	557.5	555.8	549.0	542.4
157.5°	580.9	571.0	569.3	562.8	556.2
160°	584.9	577.0	575.8	570.7	565.6
162.5°	589.3	583.6	582.7	578.9	575.0
165°	595.6	593.0	592.2	588.7	585.2
167.5°	600.5	598.3	597.9	596.3	594.6
170°	604.5	604.4	604.0	602.4	600.8
172.5°	604.8	604.8	604.7	604.4	604.0
175°	607.3	608.5	608.5	608.5	608.5
177.5°	607.5	608.5	608.5	608.5	608.5
180°	608.5	608.5	608.5	608.5	608.5



TEST NUMBER: P934761
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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	12.08	12.92	13.05	13.91	15.21	14.90	15.74	15.88	16.73	18.04
	3H	12.55	13.31	13.54	14.31	15.63	16.24	17.00	17.23	18.00	19.32
	4H	12.74	13.46	13.74	14.46	15.79	16.69	17.40	17.69	18.40	19.73
	6H	12.86	13.52	13.87	14.53	15.87	16.97	17.63	17.98	18.63	19.98
	8H	12.86	13.49	13.88	14.51	15.85	17.04	17.67	18.06	18.69	20.03
	12H	12.83	13.43	13.85	14.44	15.81	17.08	17.67	18.10	18.69	20.06
4H	2H	13.11	13.82	14.11	14.82	16.15	15.31	16.02	16.32	17.03	18.36
	3H	14.13	14.73	15.15	15.76	17.10	16.81	17.41	17.83	18.44	19.78
	4H	14.41	14.95	15.43	15.97	17.34	17.34	17.88	18.36	18.90	20.27
	6H	14.53	15.00	15.57	16.05	17.41	17.70	18.17	18.73	19.21	20.58
	8H	14.54	14.97	15.57	16.01	17.39	17.81	18.24	18.84	19.28	20.66
	12H	14.50	14.90	15.56	15.95	17.34	17.86	18.26	18.91	19.31	20.70
8H	4H	14.86	15.30	15.89	16.33	17.72	17.46	17.90	18.50	18.94	20.32
	6H	15.12	15.48	16.18	16.56	17.94	17.89	18.26	18.95	19.34	20.71
	8H	15.16	15.48	16.23	16.54	17.94	18.05	18.36	19.11	19.43	20.83
	12H	15.14	15.42	16.21	16.48	17.92	18.14	18.42	19.21	19.48	20.92
12H	4H	14.86	15.26	15.92	16.31	17.70	17.42	17.82	18.48	18.87	20.26
	6H	15.18	15.50	16.25	16.56	17.96	17.89	18.21	18.96	19.28	20.67
	8H	15.25	15.52	16.32	16.59	18.02	18.05	18.33	19.12	19.39	20.83