

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: P934764

Luminaire Tested: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934764
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-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

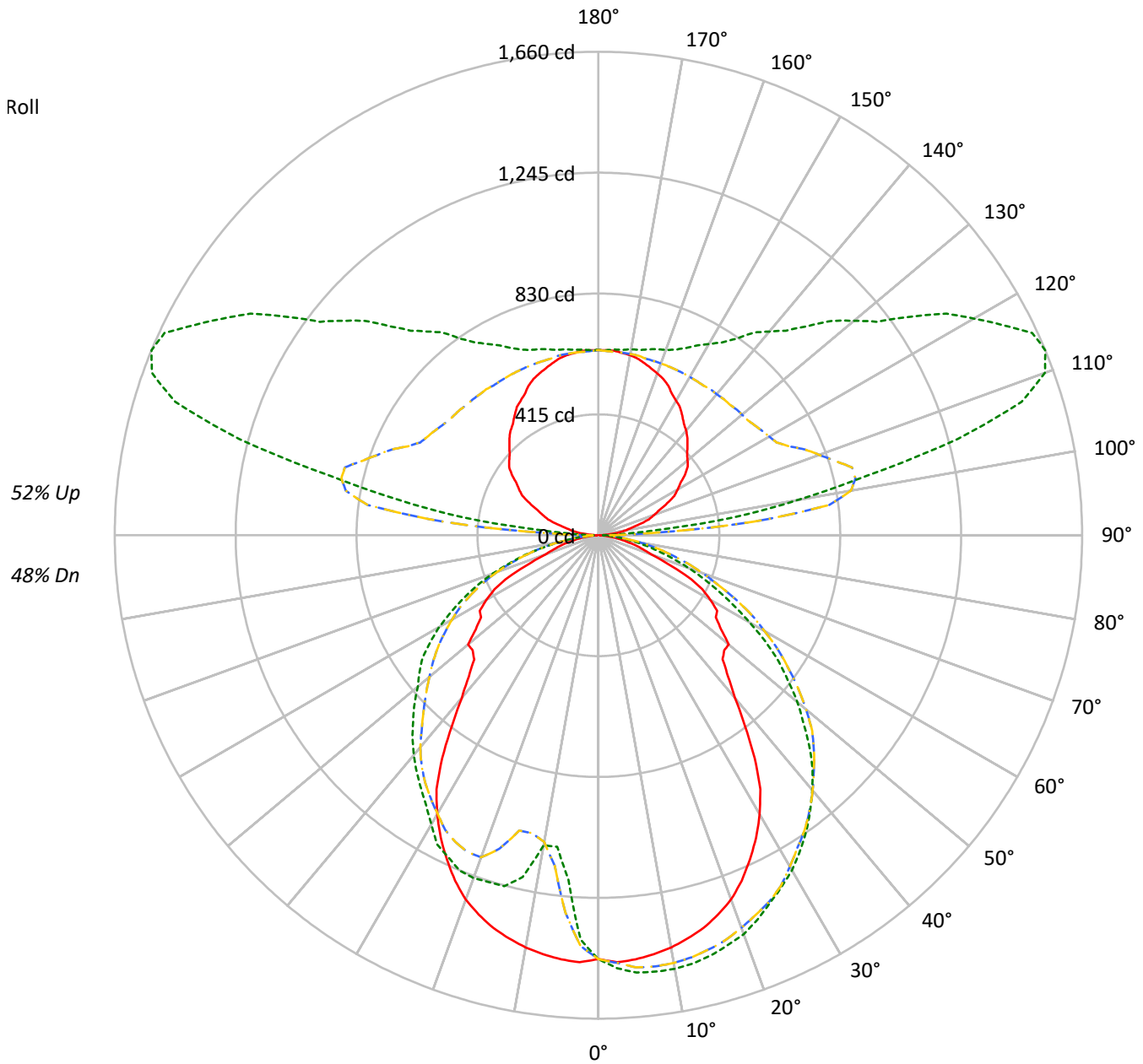
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7896.7 lumens
Efficiency: N/A
Efficacy: 124.2 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: P934764
CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-5000K

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°	9001	9001	9001	9001
5°	9065	9086	9065	7144
10°	9001	8950	9001	6399
15°	8899	8756	8899	7311
20°	8710	8527	8710	7327
25°	8326	8192	8326	7171
30°	7830	7914	7830	6831
35°	6977	7561	6977	6456
40°	5811	7148	5811	6173
45°	5188	6662	5188	5848
50°	5508	6084	5508	5521
55°	5177	5461	5177	5332
60°	5330	4638	5330	4884
65°	4825	3834	4825	4286
70°	3333	3056	3333	3593
75°	2912	2259	2912	2705
80°	2330	1493	2330	1626
85°	1312	791	1312	672

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7957 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	1.7
10°-20°	372.9	4.7
20°-30°	576.5	7.3
30°-40°	688.2	8.7
40°-50°	692.2	8.8
50°-60°	602.3	7.6
60°-70°	427.0	5.4
70°-80°	225.9	2.9
80°-90°	58.7	0.7
90°-100°	309.9	3.9
100°-110°	814.8	10.3
110°-120°	844.9	10.7
120°-130°	677.7	8.6
130°-140°	531.7	6.7
140°-150°	408.1	5.2
150°-160°	293.9	3.7
160°-170°	179.8	2.3
170°-180°	60.8	0.8
0°-30°	1080.7	13.7
0°-40°	1768.9	22.4
0°-60°	3063.3	38.8
0°-90°	3775.0	47.8
90°-120°	1969.6	24.9
90°-150°	3587.2	45.4
90°-180°	4122.0	52.2
0°-180°	7896.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1455	1455	1455	1455	1455	
5°	1462	1507	1462	1185	1462	139
15°	1396	1494	1396	1247	1396	393
25°	1229	1393	1229	1220	1229	564
35°	935	1243	935	1061	935	578
45°	603	1024	603	899	603	483
55°	491	756	491	738	491	452
65°	341	456	341	509	341	326
75°	129	216	129	259	129	136
85°	22	55	22	47	22	30
90°	4	16	4	16	4	4
95°	41	187	41	187	41	45
105°	147	1276	147	1276	147	156
115°	261	1643	261	1643	261	257
125°	363	1308	363	1308	363	322
135°	432	1015	432	1015	432	334
145°	501	824	501	824	501	314
155°	567	709	567	709	567	260
165°	612	661	612	661	612	173
175°	636	640	636	640	636	60
180°	636	636	636	636	636	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0
2.5°	1467.4	1467.4	1475.7	1478.4	1478.4	1474.3	1470.1	1474.3	1486.7	1490.8	1489.4
5°	1461.9	1472.9	1488.0	1490.8	1493.5	1492.2	1489.4	1492.2	1505.9	1508.7	1510.1
7.5°	1450.9	1471.5	1490.8	1494.9	1499.1	1494.9	1493.5	1496.3	1510.1	1512.8	1512.8
10°	1437.1	1466.0	1488.0	1490.8	1494.9	1490.8	1490.8	1496.3	1510.1	1512.8	1514.2
12.5°	1417.8	1457.8	1478.4	1481.2	1486.7	1485.3	1483.9	1489.4	1503.2	1505.9	1505.9
15°	1395.8	1442.6	1461.9	1464.6	1474.3	1471.5	1471.5	1477.0	1492.2	1496.3	1494.9
17.5°	1365.5	1423.3	1445.4	1449.5	1456.4	1455.0	1456.4	1461.9	1475.7	1478.4	1479.8
20°	1331.1	1397.2	1423.3	1427.5	1434.4	1434.4	1434.4	1441.2	1455.0	1460.5	1460.5
22.5°	1284.3	1369.7	1397.2	1399.9	1408.2	1408.2	1411.0	1420.6	1433.0	1434.4	1434.4
25°	1229.3	1339.4	1362.8	1371.0	1379.3	1383.4	1387.6	1393.1	1397.2	1395.8	1397.2
27.5°	1171.4	1300.8	1331.1	1336.6	1347.6	1351.8	1357.3	1358.6	1360.0	1364.2	1361.4
30°	1106.7	1247.1	1292.6	1298.1	1316.0	1318.7	1313.2	1316.0	1322.9	1325.6	1328.4
32.5°	1033.8	1167.3	1252.7	1265.0	1281.6	1273.3	1271.9	1276.1	1287.1	1287.1	1289.8
35°	934.7	1105.4	1215.5	1226.5	1238.9	1229.3	1234.8	1236.1	1243.0	1247.1	1245.8
37.5°	825.9	1051.7	1176.9	1185.2	1194.8	1182.5	1190.7	1194.8	1200.3	1197.6	1197.6
40°	729.6	967.7	1131.5	1137.0	1145.3	1135.6	1143.9	1146.7	1149.4	1146.7	1145.3
42.5°	658.0	875.5	1083.3	1090.2	1084.7	1091.6	1094.4	1099.9	1095.7	1090.2	1090.2
45°	602.9	850.7	1031.0	1039.3	1031.0	1042.0	1046.2	1046.2	1033.8	1031.0	1029.7
47.5°	585.0	801.1	978.7	978.7	974.6	988.4	995.2	985.6	973.2	969.1	969.1
50°	583.7	746.1	907.1	901.6	920.9	937.4	930.5	920.9	911.3	896.1	896.1
52.5°	530.0	678.6	814.9	835.6	865.8	875.5	864.5	854.8	838.3	831.4	825.9
55°	491.4	608.4	730.9	772.2	803.9	816.3	795.6	786.0	761.2	757.1	754.3
57.5°	483.2	506.6	653.9	706.2	744.7	743.3	730.9	713.0	692.4	688.3	686.9
60°	443.2	366.2	571.3	633.2	673.1	669.0	658.0	641.5	622.2	619.4	616.7
62.5°	402.0	265.7	477.7	547.9	604.3	602.9	593.3	568.5	554.7	547.9	542.4
65°	341.4	223.0	340.0	455.6	536.9	539.6	519.0	501.1	485.9	477.7	476.3
67.5°	260.2	181.7	229.9	379.9	472.2	469.4	443.2	435.0	415.7	411.6	403.3
70°	192.7	121.1	159.7	308.3	408.8	402.0	381.3	371.7	353.8	344.1	338.6
72.5°	159.7	97.7	117.0	239.5	344.1	335.9	318.0	307.0	291.8	283.6	278.1
75°	129.4	103.2	89.5	177.6	279.4	273.9	257.4	246.4	234.0	223.0	224.4
77.5°	95.0	96.4	71.6	130.8	221.6	213.4	203.7	190.0	184.5	173.4	173.4
80°	71.6	75.7	53.7	89.5	159.7	159.7	151.4	141.8	132.1	126.6	126.6
82.5°	48.2	48.2	39.9	56.4	108.7	104.6	99.1	96.4	90.9	88.1	88.1
85°	22.0	27.5	24.8	34.4	59.2	61.9	61.9	59.2	57.8	55.1	56.4
87.5°	6.9	12.4	15.1	19.3	30.3	31.7	33.0	33.0	33.0	34.4	34.4
90°	4.2	7.6	11.1	11.9	18.7	27.8	32.4	28.8	21.7	16.2	16.2
92.5°	17.1	46.1	75.1	82.3	115.7	160.3	182.6	160.0	114.9	81.0	77.8
95°	40.9	94.1	147.1	160.4	284.9	450.9	533.8	476.4	361.4	275.2	265.5
97.5°	70.8	117.6	164.5	176.2	383.8	660.5	798.9	762.5	689.9	635.4	616.8
100°	93.9	136.4	178.9	189.5	419.8	726.8	880.3	883.0	888.3	892.3	870.2
102.5°	113.5	153.2	192.8	202.7	436.3	747.6	903.4	949.6	1042.2	1111.6	1092.6
105°	146.8	180.4	214.0	222.4	448.5	750.0	900.8	1004.5	1212.0	1367.6	1357.5
107.5°	181.0	212.3	243.6	251.4	450.8	716.6	849.6	994.3	1283.8	1500.8	1503.3
110°	204.0	232.3	260.4	267.5	447.3	687.1	806.9	968.7	1292.3	1534.9	1545.6



TEST NUMBER: P934764

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	226.6	253.5	280.4	287.1	447.5	661.2	768.1	933.7	1264.8	1513.1	1529.4
115°	260.7	285.6	310.4	316.6	451.6	631.6	721.6	881.1	1200.1	1439.3	1461.9
117.5°	294.4	317.0	339.5	345.2	460.0	613.0	689.6	833.5	1121.4	1337.4	1362.4
120°	314.0	335.3	356.5	361.8	466.8	606.8	676.8	808.3	1071.3	1268.6	1293.0
122.5°	333.3	354.7	376.2	381.5	476.7	603.6	667.0	785.4	1022.2	1199.9	1223.9
125°	362.7	382.2	401.8	406.6	489.9	600.8	656.3	756.9	958.2	1109.0	1131.2
127.5°	386.6	406.4	426.0	430.9	503.1	599.3	647.3	733.7	906.5	1036.1	1054.8
130°	399.4	420.7	441.9	447.2	512.8	600.3	643.9	720.8	874.7	990.0	1007.3
132.5°	412.6	433.9	455.1	460.4	520.6	600.8	640.9	709.7	847.5	950.7	966.1
135°	432.2	451.6	471.0	475.8	529.1	600.3	635.8	693.4	808.8	895.2	908.5
137.5°	452.3	471.4	490.6	495.4	541.9	603.9	635.0	683.7	781.1	854.3	865.2
140°	468.9	486.6	504.3	508.7	549.8	604.6	631.9	674.0	758.3	821.4	831.6
142.5°	481.8	498.1	514.5	518.5	556.3	606.7	631.9	668.9	742.9	798.4	807.2
145°	501.4	515.7	529.8	533.4	564.8	606.8	627.7	658.0	718.5	763.8	770.4
147.5°	521.0	534.8	548.7	552.2	577.3	610.9	627.7	651.5	699.1	734.8	740.3
150°	533.8	546.3	558.9	562.0	583.9	613.1	627.7	647.8	688.0	718.2	722.7
152.5°	547.0	556.6	566.0	568.4	588.2	614.5	627.7	644.9	679.2	705.0	708.4
155°	566.7	573.7	580.7	582.5	597.5	617.6	627.7	641.4	668.7	689.2	691.4
157.5°	581.2	588.1	594.8	596.6	607.0	620.8	627.7	638.3	659.5	675.5	677.1
160°	591.0	596.3	601.6	602.9	611.2	622.2	627.7	636.8	655.0	668.6	669.6
162.5°	600.8	604.9	608.8	609.8	615.8	623.8	627.7	635.4	650.7	662.3	663.1
165°	611.5	615.1	618.7	619.6	622.3	625.9	627.7	633.2	644.2	652.5	653.4
167.5°	621.3	623.0	624.7	625.1	627.4	630.5	631.9	635.5	642.8	648.2	648.5
170°	627.7	629.4	631.1	631.6	631.6	631.8	631.9	635.5	642.8	648.2	648.2
172.5°	631.1	631.5	631.8	631.9	631.9	631.9	631.9	634.8	640.5	644.8	644.4
175°	635.8	635.8	635.8	635.8	634.5	632.8	631.9	633.8	637.3	640.1	640.1
177.5°	635.8	635.8	635.8	635.8	634.8	633.5	632.8	634.3	637.2	639.3	638.9
180°	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0
2.5°	1492.2	1488.0	1492.2	1489.4	1490.8	1486.7	1474.3	1470.1	1474.3	1478.4	1478.4
5°	1510.1	1507.3	1510.1	1510.1	1508.7	1505.9	1492.2	1489.4	1492.2	1493.5	1490.8
7.5°	1515.6	1511.4	1515.6	1512.8	1512.8	1510.1	1496.3	1493.5	1494.9	1499.1	1494.9
10°	1515.6	1511.4	1515.6	1514.2	1512.8	1510.1	1496.3	1490.8	1490.8	1494.9	1490.8
12.5°	1508.7	1505.9	1508.7	1505.9	1505.9	1503.2	1489.4	1483.9	1485.3	1486.7	1481.2
15°	1497.7	1493.5	1497.7	1494.9	1496.3	1492.2	1477.0	1471.5	1471.5	1474.3	1464.6
17.5°	1481.2	1475.7	1481.2	1479.8	1478.4	1475.7	1461.9	1456.4	1455.0	1456.4	1449.5
20°	1461.9	1457.8	1461.9	1460.5	1460.5	1455.0	1441.2	1434.4	1434.4	1434.4	1427.5
22.5°	1431.6	1427.5	1431.6	1434.4	1434.4	1433.0	1420.6	1411.0	1408.2	1408.2	1399.9
25°	1397.2	1393.1	1397.2	1397.2	1395.8	1397.2	1393.1	1387.6	1383.4	1379.3	1371.0
27.5°	1364.2	1361.4	1364.2	1361.4	1364.2	1360.0	1358.6	1357.3	1351.8	1347.6	1336.6
30°	1331.1	1328.4	1331.1	1328.4	1325.6	1322.9	1316.0	1313.2	1318.7	1316.0	1298.1
32.5°	1289.8	1287.1	1289.8	1289.8	1287.1	1287.1	1276.1	1271.9	1273.3	1281.6	1265.0
35°	1247.1	1243.0	1247.1	1245.8	1247.1	1243.0	1236.1	1234.8	1229.3	1238.9	1226.5
37.5°	1197.6	1193.5	1197.6	1197.6	1197.6	1200.3	1194.8	1190.7	1182.5	1194.8	1185.2
40°	1146.7	1141.2	1146.7	1145.3	1146.7	1149.4	1146.7	1143.9	1135.6	1145.3	1137.0
42.5°	1088.8	1087.5	1088.8	1090.2	1090.2	1095.7	1099.9	1094.4	1091.6	1084.7	1090.2
45°	1026.9	1024.1	1026.9	1029.7	1031.0	1033.8	1046.2	1046.2	1042.0	1031.0	1039.3
47.5°	960.8	953.9	960.8	969.1	969.1	973.2	985.6	995.2	988.4	974.6	978.7
50°	890.6	892.0	890.6	896.1	896.1	911.3	920.9	930.5	937.4	920.9	901.6
52.5°	821.8	820.4	821.8	825.9	831.4	838.3	854.8	864.5	875.5	865.8	835.6
55°	753.0	755.7	753.0	754.3	757.1	761.2	786.0	795.6	816.3	803.9	772.2
57.5°	684.1	680.0	684.1	686.9	688.3	692.4	713.0	730.9	743.3	744.7	706.2
60°	604.3	598.8	604.3	616.7	619.4	622.2	641.5	658.0	669.0	673.1	633.2
62.5°	534.1	524.5	534.1	542.4	547.9	554.7	568.5	593.3	602.9	604.3	547.9
65°	459.8	455.6	459.8	476.3	477.7	485.9	501.1	519.0	539.6	536.9	455.6
67.5°	392.3	392.3	392.3	403.3	411.6	415.7	435.0	443.2	469.4	472.2	379.9
70°	330.4	329.0	330.4	338.6	344.1	353.8	371.7	381.3	402.0	408.8	308.3
72.5°	271.2	269.8	271.2	278.1	283.6	291.8	307.0	318.0	335.9	344.1	239.5
75°	218.9	216.1	218.9	224.4	223.0	234.0	246.4	257.4	273.9	279.4	177.6
77.5°	167.9	167.9	167.9	173.4	173.4	184.5	190.0	203.7	213.4	221.6	130.8
80°	125.3	123.9	125.3	126.6	126.6	132.1	141.8	151.4	159.7	159.7	89.5
82.5°	88.1	85.3	88.1	88.1	88.1	90.9	96.4	99.1	104.6	108.7	56.4
85°	55.1	55.1	55.1	56.4	55.1	57.8	59.2	61.9	61.9	59.2	34.4
87.5°	35.8	34.4	35.8	34.4	34.4	33.0	33.0	33.0	31.7	30.3	19.3
90°	16.2	16.2	16.2	16.2	16.2	21.7	28.8	32.4	27.8	18.7	11.9
92.5°	64.9	52.0	64.9	77.8	81.0	114.9	160.0	182.6	160.3	115.7	82.3
95°	226.4	187.3	226.4	265.5	275.2	361.4	476.4	533.8	450.9	284.9	160.4
97.5°	542.4	468.1	542.4	616.8	635.4	689.9	762.5	798.9	660.5	383.8	176.2
100°	781.5	693.0	781.5	870.2	892.3	888.3	883.0	880.3	726.8	419.8	189.5
102.5°	1016.8	940.9	1016.8	1092.6	1111.6	1042.2	949.6	903.4	747.6	436.3	202.7
105°	1316.6	1275.9	1316.6	1357.5	1367.6	1212.0	1004.5	900.8	750.0	448.5	222.4
107.5°	1513.1	1522.9	1513.1	1503.3	1500.8	1283.8	994.3	849.6	716.6	450.8	251.4
110°	1588.0	1630.5	1588.0	1545.6	1534.9	1292.3	968.7	806.9	687.1	447.3	267.5



TEST NUMBER: P934764

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1594.7	1659.9	1594.7	1529.4	1513.1	1264.8	933.7	768.1	661.2	447.5	287.1
115°	1552.4	1642.9	1552.4	1461.9	1439.3	1200.1	881.1	721.6	631.6	451.6	316.6
117.5°	1462.7	1563.0	1462.7	1362.4	1337.4	1121.4	833.5	689.6	613.0	460.0	345.2
120°	1390.5	1488.0	1390.5	1293.0	1268.6	1071.3	808.3	676.8	606.8	466.8	361.8
122.5°	1320.1	1416.3	1320.1	1223.9	1199.9	1022.2	785.4	667.0	603.6	476.7	381.5
125°	1219.8	1308.4	1219.8	1131.2	1109.0	958.2	756.9	656.3	600.8	489.9	406.6
127.5°	1129.5	1204.2	1129.5	1054.8	1036.1	906.5	733.7	647.3	599.3	503.1	430.9
130°	1076.3	1145.3	1076.3	1007.3	990.0	874.7	720.8	643.9	600.3	512.8	447.2
132.5°	1028.0	1089.9	1028.0	966.1	950.7	847.5	709.7	640.9	600.8	520.6	460.4
135°	961.8	1015.2	961.8	908.5	895.2	808.8	693.4	635.8	600.3	529.1	475.8
137.5°	908.8	952.5	908.8	865.2	854.3	781.1	683.7	635.0	603.9	541.9	495.4
140°	872.5	913.2	872.5	831.6	821.4	758.3	674.0	631.9	604.6	549.8	508.7
142.5°	842.3	877.3	842.3	807.2	798.4	742.9	668.9	631.9	606.7	556.3	518.5
145°	797.0	823.5	797.0	770.4	763.8	718.5	658.0	627.7	606.8	564.8	533.4
147.5°	762.2	784.3	762.2	740.3	734.8	699.1	651.5	627.7	610.9	577.3	552.2
150°	740.5	758.3	740.5	722.7	718.2	688.0	647.8	627.7	613.1	583.9	562.0
152.5°	721.8	735.3	721.8	708.4	705.0	679.2	644.9	627.7	614.5	588.2	568.4
155°	700.3	709.2	700.3	691.4	689.2	668.7	641.4	627.7	617.6	597.5	582.5
157.5°	683.3	689.6	683.3	677.1	675.5	659.5	638.3	627.7	620.8	607.0	596.6
160°	673.1	676.8	673.1	669.6	668.6	655.0	636.8	627.7	622.2	611.2	602.9
162.5°	666.5	669.9	666.5	663.1	662.3	650.7	635.4	627.7	623.8	615.8	609.8
165°	657.0	660.6	657.0	653.4	652.5	644.2	633.2	627.7	625.9	622.3	619.6
167.5°	650.1	651.6	650.1	648.5	648.2	642.8	635.5	631.9	630.5	627.4	625.1
170°	648.2	648.2	648.2	648.2	648.2	642.8	635.5	631.9	631.8	631.6	631.6
172.5°	643.1	641.7	643.1	644.4	644.8	640.5	634.8	631.9	631.9	631.9	631.9
175°	640.1	640.1	640.1	640.1	640.1	637.3	633.8	631.9	632.8	634.5	635.8
177.5°	637.3	635.8	637.3	638.9	639.3	637.2	634.3	632.8	633.5	634.8	635.8
180°	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8



TEST NUMBER: P934764

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0
2.5°	1475.7	1467.4	1467.4	1453.6	1448.1	1444.0	1437.1	1416.5	1411.0	1405.4	1413.7
5°	1488.0	1472.9	1461.9	1437.1	1416.5	1408.2	1382.0	1332.5	1299.5	1274.7	1260.9
7.5°	1490.8	1471.5	1450.9	1412.3	1362.8	1340.8	1260.9	1170.1	1145.3	1123.3	1109.5
10°	1488.0	1466.0	1437.1	1379.3	1262.3	1223.7	1143.9	1084.7	1069.6	1065.4	1069.6
12.5°	1478.4	1457.8	1417.8	1321.5	1157.7	1131.5	1084.7	1050.3	1047.5	1054.4	1091.6
15°	1461.9	1442.6	1395.8	1244.4	1099.9	1080.6	1047.5	1035.2	1050.3	1098.5	1210.0
17.5°	1445.4	1423.3	1365.5	1168.7	1055.8	1042.0	1018.6	1043.4	1128.8	1193.5	1230.6
20°	1423.3	1397.2	1331.1	1113.6	1024.1	1011.8	1000.7	1112.2	1176.9	1200.3	1221.0
22.5°	1397.2	1369.7	1284.3	1075.1	991.1	981.5	988.4	1150.8	1176.9	1193.5	1211.4
25°	1362.8	1339.4	1229.3	1044.8	965.0	953.9	980.1	1146.7	1161.8	1165.9	1201.7
27.5°	1331.1	1300.8	1171.4	1017.3	933.3	929.2	987.0	1128.8	1139.8	1143.9	1182.5
30°	1292.6	1247.1	1106.7	988.4	900.3	898.9	988.4	1106.7	1104.0	1115.0	1153.5
32.5°	1252.7	1167.3	1033.8	952.6	868.6	867.2	978.7	1073.7	1071.0	1086.1	1115.0
35°	1215.5	1105.4	934.7	911.3	828.7	830.1	955.3	1035.2	1036.5	1050.3	1068.2
37.5°	1176.9	1051.7	825.9	865.8	790.1	790.1	923.7	999.4	996.6	1000.7	1025.5
40°	1131.5	967.7	729.6	806.7	754.3	750.2	885.1	960.8	951.2	949.8	984.2
42.5°	1083.3	875.5	658.0	728.2	713.0	707.5	838.3	914.0	896.1	900.3	944.3
45°	1031.0	850.7	602.9	615.3	670.4	666.2	787.4	860.3	848.0	859.0	904.4
47.5°	978.7	801.1	585.0	510.7	625.0	623.6	730.9	808.0	801.1	812.2	860.3
50°	907.1	746.1	583.7	437.7	574.0	579.5	663.5	757.1	757.1	766.7	817.7
52.5°	814.9	678.6	530.0	396.4	514.8	531.3	604.3	713.0	715.8	725.4	770.9
55°	730.9	608.4	491.4	364.8	444.6	480.4	546.5	667.6	673.1	682.8	724.1
57.5°	653.9	506.6	483.2	327.6	379.9	414.3	495.6	623.6	626.3	634.6	674.5
60°	571.3	366.2	443.2	287.7	323.5	349.6	448.8	571.3	580.9	586.4	620.8
62.5°	477.7	265.7	402.0	260.2	296.0	301.5	410.2	521.7	534.1	538.2	558.9
65°	340.0	223.0	341.4	236.8	267.0	268.4	368.9	470.8	481.8	488.7	503.8
67.5°	229.9	181.7	260.2	214.7	245.0	246.4	329.0	411.6	426.7	432.2	441.9
70°	159.7	121.1	192.7	191.3	220.2	223.0	286.3	357.9	371.7	375.8	381.3
72.5°	117.0	97.7	159.7	172.1	194.1	196.8	242.3	297.3	311.1	315.2	318.0
75°	89.5	103.2	129.4	150.0	165.2	166.6	198.2	242.3	251.9	254.7	256.0
77.5°	71.6	96.4	95.0	121.1	134.9	132.1	155.5	187.2	195.5	195.5	195.5
80°	53.7	75.7	71.6	86.7	99.1	96.4	111.5	133.5	136.3	139.0	137.7
82.5°	39.9	48.2	48.2	55.1	66.1	63.3	74.3	86.7	86.7	86.7	89.5
85°	24.8	27.5	22.0	28.9	37.2	35.8	41.3	46.8	48.2	48.2	45.4
87.5°	15.1	12.4	6.9	11.0	16.5	16.5	19.3	20.6	19.3	19.3	19.3
90°	11.1	7.6	4.2	7.6	11.1	11.9	18.7	27.8	32.4	28.8	21.7
92.5°	75.1	46.1	17.1	46.1	75.1	82.3	115.7	160.3	182.6	160.0	114.9
95°	147.1	94.1	40.9	94.1	147.1	160.4	284.9	450.9	533.8	476.4	361.4
97.5°	164.5	117.6	70.8	117.6	164.5	176.2	383.8	660.5	798.9	762.5	689.9
100°	178.9	136.4	93.9	136.4	178.9	189.5	419.8	726.8	880.3	883.0	888.3
102.5°	192.8	153.2	113.5	153.2	192.8	202.7	436.3	747.6	903.4	949.6	1042.2
105°	214.0	180.4	146.8	180.4	214.0	222.4	448.5	750.0	900.8	1004.5	1212.0
107.5°	243.6	212.3	181.0	212.3	243.6	251.4	450.8	716.6	849.6	994.3	1283.8
110°	260.4	232.3	204.0	232.3	260.4	267.5	447.3	687.1	806.9	968.7	1292.3



TEST NUMBER: P934764

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	280.4	253.5	226.6	253.5	280.4	287.1	447.5	661.2	768.1	933.7	1264.8
115°	310.4	285.6	260.7	285.6	310.4	316.6	451.6	631.6	721.6	881.1	1200.1
117.5°	339.5	317.0	294.4	317.0	339.5	345.2	460.0	613.0	689.6	833.5	1121.4
120°	356.5	335.3	314.0	335.3	356.5	361.8	466.8	606.8	676.8	808.3	1071.3
122.5°	376.2	354.7	333.3	354.7	376.2	381.5	476.7	603.6	667.0	785.4	1022.2
125°	401.8	382.2	362.7	382.2	401.8	406.6	489.9	600.8	656.3	756.9	958.2
127.5°	426.0	406.4	386.6	406.4	426.0	430.9	503.1	599.3	647.3	733.7	906.5
130°	441.9	420.7	399.4	420.7	441.9	447.2	512.8	600.3	643.9	720.8	874.7
132.5°	455.1	433.9	412.6	433.9	455.1	460.4	520.6	600.8	640.9	709.7	847.5
135°	471.0	451.6	432.2	451.6	471.0	475.8	529.1	600.3	635.8	693.4	808.8
137.5°	490.6	471.4	452.3	471.4	490.6	495.4	541.9	603.9	635.0	683.7	781.1
140°	504.3	486.6	468.9	486.6	504.3	508.7	549.8	604.6	631.9	674.0	758.3
142.5°	514.5	498.1	481.8	498.1	514.5	518.5	556.3	606.7	631.9	668.9	742.9
145°	529.8	515.7	501.4	515.7	529.8	533.4	564.8	606.8	627.7	658.0	718.5
147.5°	548.7	534.8	521.0	534.8	548.7	552.2	577.3	610.9	627.7	651.5	699.1
150°	558.9	546.3	533.8	546.3	558.9	562.0	583.9	613.1	627.7	647.8	688.0
152.5°	566.0	556.6	547.0	556.6	566.0	568.4	588.2	614.5	627.7	644.9	679.2
155°	580.7	573.7	566.7	573.7	580.7	582.5	597.5	617.6	627.7	641.4	668.7
157.5°	594.8	588.1	581.2	588.1	594.8	596.6	607.0	620.8	627.7	638.3	659.5
160°	601.6	596.3	591.0	596.3	601.6	602.9	611.2	622.2	627.7	636.8	655.0
162.5°	608.8	604.9	600.8	604.9	608.8	609.8	615.8	623.8	627.7	635.4	650.7
165°	618.7	615.1	611.5	615.1	618.7	619.6	622.3	625.9	627.7	633.2	644.2
167.5°	624.7	623.0	621.3	623.0	624.7	625.1	627.4	630.5	631.9	635.5	642.8
170°	631.1	629.4	627.7	629.4	631.1	631.6	631.6	631.8	631.9	635.5	642.8
172.5°	631.8	631.5	631.1	631.5	631.8	631.9	631.9	631.9	631.9	634.8	640.5
175°	635.8	635.8	635.8	635.8	635.8	635.8	634.5	632.8	631.9	633.8	637.3
177.5°	635.8	635.8	635.8	635.8	635.8	635.8	634.8	633.5	632.8	634.3	637.2
180°	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8



TEST NUMBER: P934764

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0
2.5°	1404.1	1399.9	1405.4	1390.3	1405.4	1399.9	1404.1	1413.7	1405.4	1411.0	1416.5
5°	1232.0	1225.1	1203.1	1185.2	1203.1	1225.1	1232.0	1260.9	1274.7	1299.5	1332.5
7.5°	1101.2	1095.7	1090.2	1079.2	1090.2	1095.7	1101.2	1109.5	1123.3	1145.3	1170.1
10°	1072.3	1073.7	1082.0	1080.6	1082.0	1073.7	1072.3	1069.6	1065.4	1069.6	1084.7
12.5°	1146.7	1159.0	1204.5	1201.7	1204.5	1159.0	1146.7	1091.6	1054.4	1047.5	1050.3
15°	1232.0	1236.1	1245.8	1247.1	1245.8	1236.1	1232.0	1210.0	1098.5	1050.3	1035.2
17.5°	1240.3	1241.6	1248.5	1248.5	1248.5	1241.6	1240.3	1230.6	1193.5	1128.8	1043.4
20°	1233.4	1236.1	1249.9	1252.7	1249.9	1236.1	1233.4	1221.0	1200.3	1176.9	1112.2
22.5°	1230.6	1236.1	1247.1	1245.8	1247.1	1236.1	1230.6	1211.4	1193.5	1176.9	1150.8
25°	1216.9	1216.9	1218.2	1219.6	1218.2	1216.9	1216.9	1201.7	1165.9	1161.8	1146.7
27.5°	1188.0	1190.7	1199.0	1197.6	1199.0	1190.7	1188.0	1182.5	1143.9	1139.8	1128.8
30°	1161.8	1159.0	1152.2	1146.7	1152.2	1159.0	1161.8	1153.5	1115.0	1104.0	1106.7
32.5°	1117.8	1110.9	1104.0	1099.9	1104.0	1110.9	1117.8	1115.0	1086.1	1071.0	1073.7
35°	1065.4	1066.8	1065.4	1061.3	1065.4	1066.8	1065.4	1068.2	1050.3	1036.5	1035.2
37.5°	1028.3	1031.0	1029.7	1024.1	1029.7	1031.0	1028.3	1025.5	1000.7	996.6	999.4
40°	989.7	991.1	989.7	985.6	989.7	991.1	989.7	984.2	949.8	951.2	960.8
42.5°	952.6	951.2	947.1	944.3	947.1	951.2	952.6	944.3	900.3	896.1	914.0
45°	909.9	911.3	903.0	898.9	903.0	911.3	909.9	904.4	859.0	848.0	860.3
47.5°	867.2	867.2	860.3	856.2	860.3	867.2	867.2	860.3	812.2	801.1	808.0
50°	821.8	820.4	810.8	809.4	810.8	820.4	821.8	817.7	766.7	757.1	757.1
52.5°	769.5	769.5	770.9	773.6	770.9	769.5	769.5	770.9	725.4	715.8	713.0
55°	724.1	725.4	735.1	737.8	735.1	725.4	724.1	724.1	682.8	673.1	667.6
57.5°	677.3	677.3	684.1	684.1	684.1	677.3	677.3	674.5	634.6	626.3	623.6
60°	623.6	626.3	631.8	630.5	631.8	626.3	623.6	620.8	586.4	580.9	571.3
62.5°	567.1	569.9	571.3	568.5	571.3	569.9	567.1	558.9	538.2	534.1	521.7
65°	507.9	510.7	512.1	509.3	512.1	510.7	507.9	503.8	488.7	481.8	470.8
67.5°	447.4	446.0	444.6	450.1	444.6	446.0	447.4	441.9	432.2	426.7	411.6
70°	385.4	385.4	384.1	386.8	384.1	385.4	385.4	381.3	375.8	371.7	357.9
72.5°	319.4	318.0	323.5	319.4	323.5	318.0	319.4	318.0	315.2	311.1	297.3
75°	254.7	257.4	254.7	258.8	254.7	257.4	254.7	256.0	254.7	251.9	242.3
77.5°	194.1	196.8	194.1	194.1	194.1	196.8	194.1	195.5	195.5	195.5	187.2
80°	137.7	136.3	136.3	134.9	136.3	136.3	137.7	137.7	139.0	136.3	133.5
82.5°	88.1	86.7	86.7	89.5	86.7	86.7	88.1	89.5	86.7	86.7	86.7
85°	48.2	49.6	46.8	46.8	46.8	49.6	48.2	45.4	48.2	48.2	46.8
87.5°	17.9	16.5	16.5	16.5	16.5	16.5	17.9	19.3	19.3	19.3	20.6
90°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	21.7	28.8	32.4	27.8
92.5°	81.0	77.8	64.9	52.0	64.9	77.8	81.0	114.9	160.0	182.6	160.3
95°	275.2	265.5	226.4	187.3	226.4	265.5	275.2	361.4	476.4	533.8	450.9
97.5°	635.4	616.8	542.4	468.1	542.4	616.8	635.4	689.9	762.5	798.9	660.5
100°	892.3	870.2	781.5	693.0	781.5	870.2	892.3	888.3	883.0	880.3	726.8
102.5°	1111.6	1092.6	1016.8	940.9	1016.8	1092.6	1111.6	1042.2	949.6	903.4	747.6
105°	1367.6	1357.5	1316.6	1275.9	1316.6	1357.5	1367.6	1212.0	1004.5	900.8	750.0
107.5°	1500.8	1503.3	1513.1	1522.9	1513.1	1503.3	1500.8	1283.8	994.3	849.6	716.6
110°	1534.9	1545.6	1588.0	1630.5	1588.0	1545.6	1534.9	1292.3	968.7	806.9	687.1



TEST NUMBER: P934764

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1513.1	1529.4	1594.7	1659.9	1594.7	1529.4	1513.1	1264.8	933.7	768.1	661.2
115°	1439.3	1461.9	1552.4	1642.9	1552.4	1461.9	1439.3	1200.1	881.1	721.6	631.6
117.5°	1337.4	1362.4	1462.7	1563.0	1462.7	1362.4	1337.4	1121.4	833.5	689.6	613.0
120°	1268.6	1293.0	1390.5	1488.0	1390.5	1293.0	1268.6	1071.3	808.3	676.8	606.8
122.5°	1199.9	1223.9	1320.1	1416.3	1320.1	1223.9	1199.9	1022.2	785.4	667.0	603.6
125°	1109.0	1131.2	1219.8	1308.4	1219.8	1131.2	1109.0	958.2	756.9	656.3	600.8
127.5°	1036.1	1054.8	1129.5	1204.2	1129.5	1054.8	1036.1	906.5	733.7	647.3	599.3
130°	990.0	1007.3	1076.3	1145.3	1076.3	1007.3	990.0	874.7	720.8	643.9	600.3
132.5°	950.7	966.1	1028.0	1089.9	1028.0	966.1	950.7	847.5	709.7	640.9	600.8
135°	895.2	908.5	961.8	1015.2	961.8	908.5	895.2	808.8	693.4	635.8	600.3
137.5°	854.3	865.2	908.8	952.5	908.8	865.2	854.3	781.1	683.7	635.0	603.9
140°	821.4	831.6	872.5	913.2	872.5	831.6	821.4	758.3	674.0	631.9	604.6
142.5°	798.4	807.2	842.3	877.3	842.3	807.2	798.4	742.9	668.9	631.9	606.7
145°	763.8	770.4	797.0	823.5	797.0	770.4	763.8	718.5	658.0	627.7	606.8
147.5°	734.8	740.3	762.2	784.3	762.2	740.3	734.8	699.1	651.5	627.7	610.9
150°	718.2	722.7	740.5	758.3	740.5	722.7	718.2	688.0	647.8	627.7	613.1
152.5°	705.0	708.4	721.8	735.3	721.8	708.4	705.0	679.2	644.9	627.7	614.5
155°	689.2	691.4	700.3	709.2	700.3	691.4	689.2	668.7	641.4	627.7	617.6
157.5°	675.5	677.1	683.3	689.6	683.3	677.1	675.5	659.5	638.3	627.7	620.8
160°	668.6	669.6	673.1	676.8	673.1	669.6	668.6	655.0	636.8	627.7	622.2
162.5°	662.3	663.1	666.5	669.9	666.5	663.1	662.3	650.7	635.4	627.7	623.8
165°	652.5	653.4	657.0	660.6	657.0	653.4	652.5	644.2	633.2	627.7	625.9
167.5°	648.2	648.5	650.1	651.6	650.1	648.5	648.2	642.8	635.5	631.9	630.5
170°	648.2	648.2	648.2	648.2	648.2	648.2	648.2	642.8	635.5	631.9	631.8
172.5°	644.8	644.4	643.1	641.7	643.1	644.4	644.8	640.5	634.8	631.9	631.9
175°	640.1	640.1	640.1	640.1	640.1	640.1	640.1	637.3	633.8	631.9	632.8
177.5°	639.3	638.9	637.3	635.8	637.3	638.9	639.3	637.2	634.3	632.8	633.5
180°	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8



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CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1455.0	1455.0	1455.0	1455.0	1455.0
2.5°	1437.1	1444.0	1448.1	1453.6	1467.4
5°	1382.0	1408.2	1416.5	1437.1	1461.9
7.5°	1260.9	1340.8	1362.8	1412.3	1450.9
10°	1143.9	1223.7	1262.3	1379.3	1437.1
12.5°	1084.7	1131.5	1157.7	1321.5	1417.8
15°	1047.5	1080.6	1099.9	1244.4	1395.8
17.5°	1018.6	1042.0	1055.8	1168.7	1365.5
20°	1000.7	1011.8	1024.1	1113.6	1331.1
22.5°	988.4	981.5	991.1	1075.1	1284.3
25°	980.1	953.9	965.0	1044.8	1229.3
27.5°	987.0	929.2	933.3	1017.3	1171.4
30°	988.4	898.9	900.3	988.4	1106.7
32.5°	978.7	867.2	868.6	952.6	1033.8
35°	955.3	830.1	828.7	911.3	934.7
37.5°	923.7	790.1	790.1	865.8	825.9
40°	885.1	750.2	754.3	806.7	729.6
42.5°	838.3	707.5	713.0	728.2	658.0
45°	787.4	666.2	670.4	615.3	602.9
47.5°	730.9	623.6	625.0	510.7	585.0
50°	663.5	579.5	574.0	437.7	583.7
52.5°	604.3	531.3	514.8	396.4	530.0
55°	546.5	480.4	444.6	364.8	491.4
57.5°	495.6	414.3	379.9	327.6	483.2
60°	448.8	349.6	323.5	287.7	443.2
62.5°	410.2	301.5	296.0	260.2	402.0
65°	368.9	268.4	267.0	236.8	341.4
67.5°	329.0	246.4	245.0	214.7	260.2
70°	286.3	223.0	220.2	191.3	192.7
72.5°	242.3	196.8	194.1	172.1	159.7
75°	198.2	166.6	165.2	150.0	129.4
77.5°	155.5	132.1	134.9	121.1	95.0
80°	111.5	96.4	99.1	86.7	71.6
82.5°	74.3	63.3	66.1	55.1	48.2
85°	41.3	35.8	37.2	28.9	22.0
87.5°	19.3	16.5	16.5	11.0	6.9
90°	18.7	11.9	11.1	7.6	4.2
92.5°	115.7	82.3	75.1	46.1	17.1
95°	284.9	160.4	147.1	94.1	40.9
97.5°	383.8	176.2	164.5	117.6	70.8
100°	419.8	189.5	178.9	136.4	93.9
102.5°	436.3	202.7	192.8	153.2	113.5
105°	448.5	222.4	214.0	180.4	146.8
107.5°	450.8	251.4	243.6	212.3	181.0
110°	447.3	267.5	260.4	232.3	204.0



TEST NUMBER: P934764

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	447.5	287.1	280.4	253.5	226.6
115°	451.6	316.6	310.4	285.6	260.7
117.5°	460.0	345.2	339.5	317.0	294.4
120°	466.8	361.8	356.5	335.3	314.0
122.5°	476.7	381.5	376.2	354.7	333.3
125°	489.9	406.6	401.8	382.2	362.7
127.5°	503.1	430.9	426.0	406.4	386.6
130°	512.8	447.2	441.9	420.7	399.4
132.5°	520.6	460.4	455.1	433.9	412.6
135°	529.1	475.8	471.0	451.6	432.2
137.5°	541.9	495.4	490.6	471.4	452.3
140°	549.8	508.7	504.3	486.6	468.9
142.5°	556.3	518.5	514.5	498.1	481.8
145°	564.8	533.4	529.8	515.7	501.4
147.5°	577.3	552.2	548.7	534.8	521.0
150°	583.9	562.0	558.9	546.3	533.8
152.5°	588.2	568.4	566.0	556.6	547.0
155°	597.5	582.5	580.7	573.7	566.7
157.5°	607.0	596.6	594.8	588.1	581.2
160°	611.2	602.9	601.6	596.3	591.0
162.5°	615.8	609.8	608.8	604.9	600.8
165°	622.3	619.6	618.7	615.1	611.5
167.5°	627.4	625.1	624.7	623.0	621.3
170°	631.6	631.6	631.1	629.4	627.7
172.5°	631.9	631.9	631.8	631.5	631.1
175°	634.5	635.8	635.8	635.8	635.8
177.5°	634.8	635.8	635.8	635.8	635.8
180°	635.8	635.8	635.8	635.8	635.8



TEST NUMBER: P934764
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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	12.23	13.07	13.21	14.06	15.36	15.05	15.90	16.03	16.89	18.19
	3H	12.71	13.46	13.69	14.46	15.78	16.40	17.15	17.38	18.15	19.47
	4H	12.90	13.61	13.90	14.61	15.94	16.84	17.55	17.84	18.55	19.89
	6H	13.01	13.67	14.02	14.68	16.02	17.12	17.78	18.13	18.79	20.13
	8H	13.01	13.64	14.03	14.66	16.01	17.19	17.82	18.21	18.84	20.18
	12H	12.99	13.58	14.01	14.60	15.96	17.23	17.83	18.25	18.84	20.21
4H	2H	13.26	13.97	14.27	14.98	16.31	15.46	16.18	16.47	17.18	18.51
	3H	14.28	14.88	15.30	15.91	17.26	16.96	17.56	17.98	18.59	19.94
	4H	14.56	15.10	15.58	16.13	17.50	17.49	18.03	18.51	19.06	20.43
	6H	14.68	15.15	15.72	16.20	17.56	17.85	18.32	18.89	19.37	20.73
	8H	14.69	15.13	15.72	16.17	17.55	17.96	18.40	18.99	19.43	20.81
	12H	14.66	15.05	15.71	16.10	17.49	18.01	18.41	19.07	19.46	20.85
8H	4H	15.01	15.45	16.05	16.49	17.87	17.61	18.05	18.65	19.09	20.47
	6H	15.27	15.63	16.33	16.71	18.09	18.05	18.41	19.11	19.49	20.87
	8H	15.31	15.63	16.38	16.70	18.09	18.20	18.52	19.26	19.58	20.98
	12H	15.30	15.58	16.37	16.64	18.08	18.29	18.57	19.36	19.63	21.07
12H	4H	15.02	15.41	16.07	16.47	17.85	17.58	17.97	18.63	19.03	20.41
	6H	15.33	15.65	16.40	16.72	18.11	18.04	18.36	19.11	19.43	20.82
	8H	15.40	15.68	16.47	16.74	18.18	18.20	18.48	19.27	19.54	20.98