

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: P934644

Luminaire Tested: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934644
REPORT IS A COMBINATION OF REPORTS P933708 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

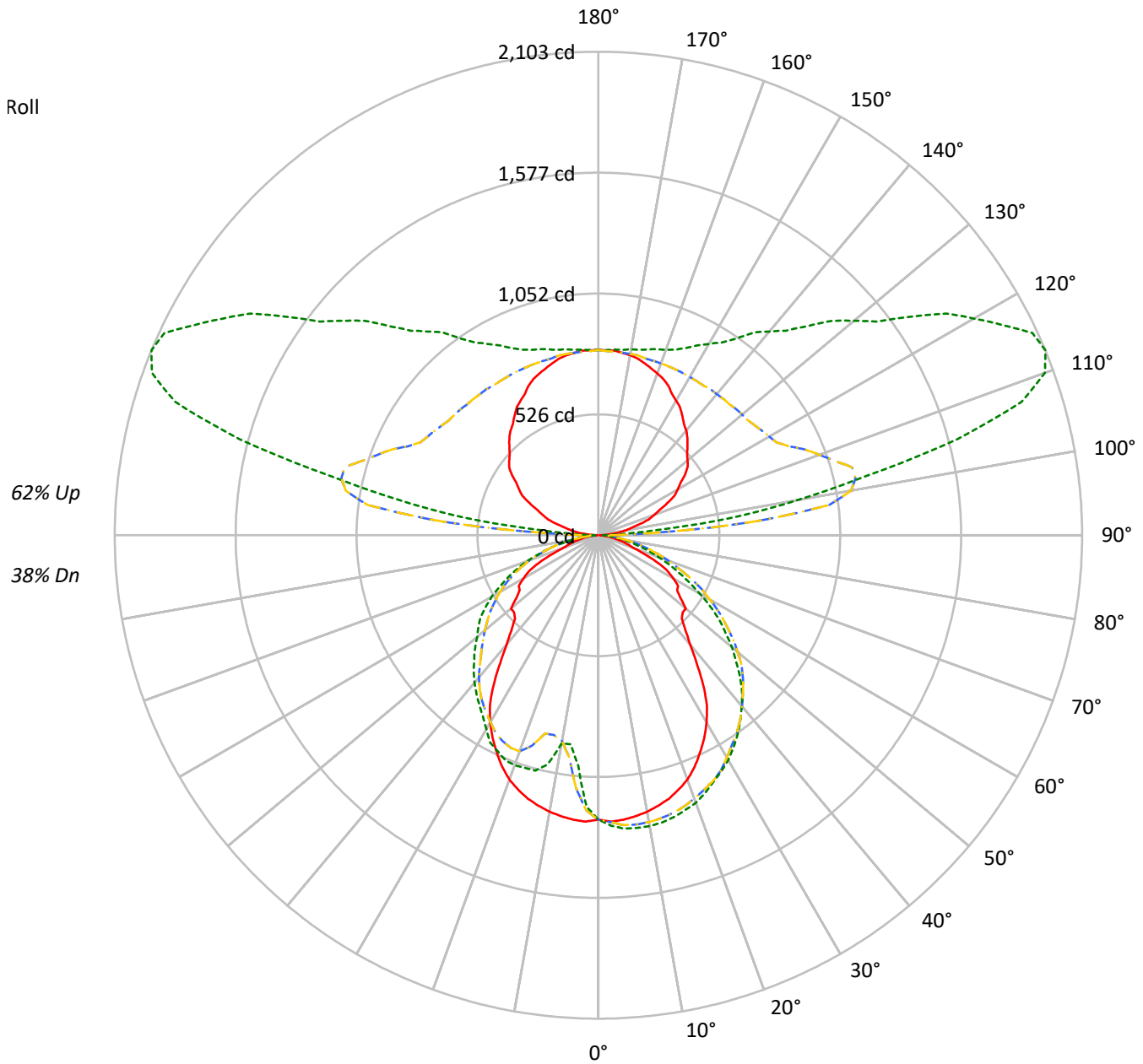
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8430.8 lumens
Efficiency: N/A
Efficacy: 122.5 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: Semi-Indirect

Input Watts (W): 68.8
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	50	30	10	0
RCR																					
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38	38	38	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32	32	32	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27	27	27	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23	23	23	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20	20	20	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17	17	17	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15	15	15	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13	13	13	13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12	12	12	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11	11	11	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10	10	10	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5736	5736	5736	5736
5°	5779	5790	5779	4553
10°	5740	5704	5740	4078
15°	5678	5580	5678	4660
20°	5559	5433	5559	4669
25°	5316	5220	5316	4570
30°	5002	5043	5002	4353
35°	4459	4819	4459	4114
40°	3716	4555	3716	3934
45°	3320	4246	3320	3727
50°	3527	3878	3527	3519
55°	3318	3481	3318	3398
60°	3421	2956	3421	3112
65°	3101	2444	3101	2731
70°	2148	1948	2148	2290
75°	1884	1440	1884	1724
80°	1517	952	1517	1036
85°	871	504	871	429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5088 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	1.3
10°-20°	316.9	3.8
20°-30°	489.8	5.8
30°-40°	584.7	6.9
40°-50°	588.2	7.0
50°-60°	511.8	6.1
60°-70°	362.9	4.3
70°-80°	192.0	2.3
80°-90°	50.9	0.6
90°-100°	392.7	4.7
100°-110°	1032.4	12.2
110°-120°	1070.4	12.7
120°-130°	858.6	10.2
130°-140°	673.7	8.0
140°-150°	517.1	6.1
150°-160°	372.4	4.4
160°-170°	227.9	2.7
170°-180°	77.0	0.9
0°-30°	918.3	10.9
0°-40°	1503.0	17.8
0°-60°	2603.0	30.9
0°-90°	3208.7	38.1
90°-120°	2495.5	29.6
90°-150°	4544.9	53.9
90°-180°	5222.0	61.9
0°-180°	8430.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1236	1236	1236	1236	1236	
5°	1242	1281	1242	1007	1242	118
15°	1186	1269	1186	1060	1186	334
25°	1044	1184	1044	1036	1044	480
35°	794	1056	794	902	794	491
45°	512	870	512	764	512	410
55°	418	642	418	627	418	384
65°	290	387	290	433	290	277
75°	110	184	110	220	110	116
85°	19	47	19	40	19	25
90°	5	21	5	21	5	5
95°	52	237	52	237	52	58
105°	186	1616	186	1616	186	197
115°	330	2082	330	2082	330	326
125°	460	1658	460	1658	460	408
135°	548	1286	548	1286	548	424
145°	635	1044	635	1044	635	398
155°	718	898	718	898	718	330
165°	775	837	775	837	775	219
175°	806	811	806	811	806	76
180°	806	806	806	806	806	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1246.8	1246.8	1253.9	1256.3	1256.3	1252.7	1249.2	1252.7	1263.2	1266.7	1265.6
5°	1242.2	1251.5	1264.4	1266.7	1269.1	1267.9	1265.6	1267.9	1279.6	1282.0	1283.1
7.5°	1232.8	1250.4	1266.7	1270.3	1273.8	1270.3	1269.1	1271.4	1283.1	1285.5	1285.5
10°	1221.1	1245.7	1264.4	1266.7	1270.3	1266.7	1266.7	1271.4	1283.1	1285.5	1286.6
12.5°	1204.7	1238.6	1256.3	1258.5	1263.2	1262.1	1260.9	1265.6	1277.3	1279.6	1279.6
15°	1186.1	1225.8	1242.2	1244.5	1252.7	1250.4	1250.4	1255.0	1267.9	1271.4	1270.3
17.5°	1160.3	1209.4	1228.2	1231.7	1237.5	1236.4	1237.5	1242.2	1253.9	1256.3	1257.4
20°	1131.0	1187.2	1209.4	1212.9	1218.8	1218.8	1218.8	1224.6	1236.4	1241.0	1241.0
22.5°	1091.3	1163.8	1187.2	1189.5	1196.6	1196.6	1198.9	1207.1	1217.6	1218.8	1218.8
25°	1044.5	1138.1	1158.0	1165.0	1172.0	1175.5	1179.0	1183.7	1187.2	1186.1	1187.2
27.5°	995.4	1105.3	1131.0	1135.7	1145.1	1148.6	1153.3	1154.5	1155.6	1159.1	1156.8
30°	940.4	1059.7	1098.3	1103.0	1118.2	1120.6	1115.9	1118.2	1124.1	1126.4	1128.8
32.5°	878.4	991.9	1064.4	1075.0	1089.0	1081.9	1080.8	1084.3	1093.6	1093.6	1096.0
35°	794.2	939.3	1032.8	1042.2	1052.7	1044.5	1049.2	1050.4	1056.2	1059.7	1058.6
37.5°	701.8	893.7	1000.0	1007.1	1015.3	1004.8	1011.7	1015.3	1019.9	1017.6	1017.6
40°	619.9	822.2	961.5	966.1	973.2	965.0	972.0	974.3	976.7	974.3	973.2
42.5°	559.1	743.9	920.5	926.4	921.7	927.6	929.8	934.6	931.1	926.4	926.4
45°	512.3	722.8	876.0	883.1	876.0	885.5	889.0	889.0	878.4	876.0	874.9
47.5°	497.1	680.7	831.7	831.7	828.1	839.9	845.7	837.5	826.9	823.5	823.5
50°	495.9	634.0	770.8	766.2	782.5	796.5	790.7	782.5	774.3	761.5	761.5
52.5°	450.3	576.7	692.5	710.0	735.7	743.9	734.5	726.4	712.4	706.4	701.8
55°	417.5	517.0	621.1	656.2	683.1	693.6	676.1	667.9	646.8	643.3	640.9
57.5°	410.6	430.4	555.6	600.0	632.7	631.6	621.1	605.9	588.4	584.9	583.7
60°	376.6	311.1	485.4	538.0	572.0	568.5	559.1	545.0	528.7	526.4	524.0
62.5°	341.6	225.8	405.8	465.5	513.5	512.3	504.1	483.1	471.3	465.5	460.9
65°	290.0	189.5	288.9	387.2	456.2	458.5	441.0	425.7	412.9	405.8	404.7
67.5°	221.1	154.4	195.3	322.8	401.2	398.9	376.6	369.7	353.3	349.8	342.7
70°	163.8	102.9	135.7	262.0	347.4	341.6	324.0	315.9	300.6	292.4	287.8
72.5°	135.7	83.0	99.4	203.5	292.4	285.4	270.2	260.8	248.0	240.9	236.2
75°	110.0	87.7	76.0	150.9	237.5	232.7	218.7	209.4	198.8	189.5	190.6
77.5°	80.8	81.9	60.8	111.1	188.4	181.3	173.1	161.4	156.7	147.4	147.4
80°	60.8	64.4	45.6	76.0	135.7	135.7	128.6	120.5	112.3	107.6	107.6
82.5°	40.9	40.9	33.9	48.0	92.4	88.9	84.2	81.9	77.2	74.8	74.8
85°	18.7	23.4	21.0	29.2	50.3	52.7	52.7	50.3	49.1	46.8	48.0
87.5°	5.8	10.6	12.9	16.4	25.7	26.9	28.1	28.1	28.1	29.2	29.2
90°	5.4	9.8	14.1	15.2	23.8	35.3	41.1	36.5	27.4	20.6	20.6
92.5°	21.6	58.4	95.2	104.4	146.8	203.2	231.4	202.8	145.6	102.7	98.6
95°	51.9	119.2	186.4	203.3	360.9	571.2	676.3	603.5	457.9	348.7	336.3
97.5°	89.7	149.1	208.5	223.3	486.2	836.8	1012.1	966.0	874.0	805.1	781.5
100°	118.9	172.7	226.6	240.1	531.9	920.9	1115.3	1118.7	1125.4	1130.5	1102.4
102.5°	143.8	194.0	244.3	256.8	552.7	947.3	1144.5	1203.1	1320.4	1408.4	1384.4
105°	186.0	228.6	271.0	281.7	568.2	950.3	1141.3	1272.7	1535.6	1732.7	1719.8
107.5°	229.3	268.9	308.5	318.5	571.1	908.0	1076.4	1259.7	1626.4	1901.5	1904.6
110°	258.5	294.2	330.0	339.0	566.7	870.5	1022.4	1227.3	1637.2	1944.7	1958.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	287.1	321.2	355.3	363.8	566.9	837.8	973.2	1183.0	1602.5	1917.2	1937.8
115°	330.3	361.8	393.3	401.1	572.1	800.2	914.2	1116.3	1520.5	1823.6	1852.3
117.5°	373.1	401.7	430.3	437.4	582.9	776.7	873.7	1056.0	1420.8	1694.4	1726.1
120°	397.9	424.8	451.7	458.4	591.4	768.8	857.5	1024.1	1357.4	1607.3	1638.2
122.5°	422.2	449.4	476.6	483.4	603.9	764.6	845.0	995.1	1295.2	1520.3	1550.7
125°	459.6	484.3	509.0	515.2	620.6	761.2	831.5	959.0	1213.9	1405.1	1433.2
127.5°	489.8	514.8	539.8	546.1	637.5	759.3	820.1	929.6	1148.5	1312.7	1336.3
130°	506.0	532.9	559.8	566.6	649.7	760.5	815.9	913.3	1108.2	1254.3	1276.2
132.5°	522.8	549.7	576.7	583.4	659.6	761.2	812.0	899.2	1073.7	1204.5	1224.2
135°	547.6	572.1	596.7	602.8	670.4	760.5	805.6	878.7	1024.7	1134.3	1151.2
137.5°	573.1	597.3	621.6	627.7	686.6	765.2	804.5	866.2	989.8	1082.4	1096.1
140°	594.2	616.5	638.9	644.4	696.5	766.0	800.7	854.1	960.7	1040.8	1053.7
142.5°	610.4	631.1	651.8	656.9	704.9	768.8	800.7	847.5	941.3	1011.6	1022.6
145°	635.3	653.3	671.3	675.8	715.7	768.8	795.3	833.7	910.3	967.8	976.2
147.5°	660.1	677.7	695.3	699.6	731.5	774.0	795.3	825.5	885.7	931.0	938.0
150°	676.3	692.2	708.1	712.0	739.7	776.8	795.3	820.8	871.7	909.9	915.5
152.5°	693.1	705.1	717.2	720.1	745.2	778.6	795.3	817.0	860.5	893.1	897.4
155°	717.9	726.8	735.7	738.0	757.1	782.6	795.3	812.6	847.2	873.2	876.0
157.5°	736.3	745.0	753.6	755.8	769.0	786.5	795.3	808.7	835.7	855.8	857.8
160°	748.8	755.5	762.2	763.9	774.4	788.3	795.3	806.8	829.9	847.2	848.3
162.5°	761.2	766.3	771.3	772.6	780.2	790.2	795.3	805.1	824.5	839.1	840.1
165°	774.7	779.2	783.9	785.0	788.4	793.0	795.3	802.3	816.2	826.7	827.8
167.5°	787.2	789.4	791.5	792.1	794.9	798.8	800.7	805.2	814.4	821.3	821.7
170°	795.3	797.5	799.7	800.2	800.4	800.6	800.7	805.2	814.4	821.3	821.3
172.5°	799.7	800.1	800.6	800.7	800.7	800.7	800.7	804.3	811.5	816.9	816.5
175°	805.6	805.6	805.6	805.6	803.9	801.7	800.7	803.0	807.6	811.0	811.0
177.5°	805.6	805.6	805.6	805.6	804.3	802.6	801.7	803.6	807.2	809.9	809.4
180°	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1267.9	1264.4	1267.9	1265.6	1266.7	1263.2	1252.7	1249.2	1252.7	1256.3	1256.3
5°	1283.1	1280.8	1283.1	1283.1	1282.0	1279.6	1267.9	1265.6	1267.9	1269.1	1266.7
7.5°	1287.8	1284.3	1287.8	1285.5	1285.5	1283.1	1271.4	1269.1	1270.3	1273.8	1270.3
10°	1287.8	1284.3	1287.8	1286.6	1285.5	1283.1	1271.4	1266.7	1266.7	1270.3	1266.7
12.5°	1282.0	1279.6	1282.0	1279.6	1279.6	1277.3	1265.6	1260.9	1262.1	1263.2	1258.5
15°	1272.6	1269.1	1272.6	1270.3	1271.4	1267.9	1255.0	1250.4	1250.4	1252.7	1244.5
17.5°	1258.5	1253.9	1258.5	1257.4	1256.3	1253.9	1242.2	1237.5	1236.4	1237.5	1231.7
20°	1242.2	1238.6	1242.2	1241.0	1241.0	1236.4	1224.6	1218.8	1218.8	1218.8	1212.9
22.5°	1216.5	1212.9	1216.5	1218.8	1218.8	1217.6	1207.1	1198.9	1196.6	1196.6	1189.5
25°	1187.2	1183.7	1187.2	1187.2	1186.1	1187.2	1183.7	1179.0	1175.5	1172.0	1165.0
27.5°	1159.1	1156.8	1159.1	1156.8	1159.1	1155.6	1154.5	1153.3	1148.6	1145.1	1135.7
30°	1131.0	1128.8	1131.0	1128.8	1126.4	1124.1	1118.2	1115.9	1120.6	1118.2	1103.0
32.5°	1096.0	1093.6	1096.0	1096.0	1093.6	1093.6	1084.3	1080.8	1081.9	1089.0	1075.0
35°	1059.7	1056.2	1059.7	1058.6	1059.7	1056.2	1050.4	1049.2	1044.5	1052.7	1042.2
37.5°	1017.6	1014.1	1017.6	1017.6	1017.6	1019.9	1015.3	1011.7	1004.8	1015.3	1007.1
40°	974.3	969.6	974.3	973.2	974.3	976.7	974.3	972.0	965.0	973.2	966.1
42.5°	925.2	924.0	925.2	926.4	926.4	931.1	934.6	929.8	927.6	921.7	926.4
45°	872.6	870.2	872.6	874.9	876.0	878.4	889.0	889.0	885.5	876.0	883.1
47.5°	816.4	810.6	816.4	823.5	823.5	826.9	837.5	845.7	839.9	828.1	831.7
50°	756.8	758.0	756.8	761.5	761.5	774.3	782.5	790.7	796.5	782.5	766.2
52.5°	698.3	697.1	698.3	701.8	706.4	712.4	726.4	734.5	743.9	735.7	710.0
55°	639.8	642.2	639.8	640.9	643.3	646.8	667.9	676.1	693.6	683.1	656.2
57.5°	581.3	577.8	581.3	583.7	584.9	588.4	605.9	621.1	631.6	632.7	600.0
60°	513.5	508.8	513.5	524.0	526.4	528.7	545.0	559.1	568.5	572.0	538.0
62.5°	453.8	445.6	453.8	460.9	465.5	471.3	483.1	504.1	512.3	513.5	465.5
65°	390.7	387.2	390.7	404.7	405.8	412.9	425.7	441.0	458.5	456.2	387.2
67.5°	333.4	333.4	333.4	342.7	349.8	353.3	369.7	376.6	398.9	401.2	322.8
70°	280.7	279.6	280.7	287.8	292.4	300.6	315.9	324.0	341.6	347.4	262.0
72.5°	230.4	229.3	230.4	236.2	240.9	248.0	260.8	270.2	285.4	292.4	203.5
75°	186.0	183.7	186.0	190.6	189.5	198.8	209.4	218.7	232.7	237.5	150.9
77.5°	142.7	142.7	142.7	147.4	147.4	156.7	161.4	173.1	181.3	188.4	111.1
80°	106.5	105.3	106.5	107.6	107.6	112.3	120.5	128.6	135.7	135.7	76.0
82.5°	74.8	72.6	74.8	74.8	74.8	77.2	81.9	84.2	88.9	92.4	48.0
85°	46.8	46.8	46.8	48.0	46.8	49.1	50.3	52.7	52.7	50.3	29.2
87.5°	30.4	29.2	30.4	29.2	29.2	28.1	28.1	28.1	26.9	25.7	16.4
90°	20.6	20.6	20.6	20.6	20.6	27.4	36.5	41.1	35.3	23.8	15.2
92.5°	82.3	65.9	82.3	98.6	102.7	145.6	202.8	231.4	203.2	146.8	104.4
95°	286.9	237.4	286.9	336.3	348.7	457.9	603.5	676.3	571.2	360.9	203.3
97.5°	687.2	593.1	687.2	781.5	805.1	874.0	966.0	1012.1	836.8	486.2	223.3
100°	990.3	878.1	990.3	1102.4	1130.5	1125.4	1118.7	1115.3	920.9	531.9	240.1
102.5°	1288.3	1192.2	1288.3	1384.4	1408.4	1320.4	1203.1	1144.5	947.3	552.7	256.8
105°	1668.1	1616.5	1668.1	1719.8	1732.7	1535.6	1272.7	1141.3	950.3	568.2	281.7
107.5°	1917.1	1929.5	1917.1	1904.6	1901.5	1626.4	1259.7	1076.4	908.0	571.1	318.5
110°	2012.0	2065.8	2012.0	1958.2	1944.7	1637.2	1227.3	1022.4	870.5	566.7	339.0



TEST NUMBER: P934644

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2020.4	2103.1	2020.4	1937.8	1917.2	1602.5	1183.0	973.2	837.8	566.9	363.8
115°	1966.9	2081.5	1966.9	1852.3	1823.6	1520.5	1116.3	914.2	800.2	572.1	401.1
117.5°	1853.2	1980.4	1853.2	1726.1	1694.4	1420.8	1056.0	873.7	776.7	582.9	437.4
120°	1761.8	1885.3	1761.8	1638.2	1607.3	1357.4	1024.1	857.5	768.8	591.4	458.4
122.5°	1672.6	1794.4	1672.6	1550.7	1520.3	1295.2	995.1	845.0	764.6	603.9	483.4
125°	1545.4	1657.6	1545.4	1433.2	1405.1	1213.9	959.0	831.5	761.2	620.6	515.2
127.5°	1431.0	1525.7	1431.0	1336.3	1312.7	1148.5	929.6	820.1	759.3	637.5	546.1
130°	1363.6	1451.1	1363.6	1276.2	1254.3	1108.2	913.3	815.9	760.5	649.7	566.6
132.5°	1302.5	1380.8	1302.5	1224.2	1204.5	1073.7	899.2	812.0	761.2	659.6	583.4
135°	1218.7	1286.2	1218.7	1151.2	1134.3	1024.7	878.7	805.6	760.5	670.4	602.8
137.5°	1151.4	1206.7	1151.4	1096.1	1082.4	989.8	866.2	804.5	765.2	686.6	627.7
140°	1105.4	1157.0	1105.4	1053.7	1040.8	960.7	854.1	800.7	766.0	696.5	644.4
142.5°	1067.1	1111.6	1067.1	1022.6	1011.6	941.3	847.5	800.7	768.8	704.9	656.9
145°	1009.8	1043.5	1009.8	976.2	967.8	910.3	833.7	795.3	768.8	715.7	675.8
147.5°	965.8	993.7	965.8	938.0	931.0	885.7	825.5	795.3	774.0	731.5	699.6
150°	938.1	960.7	938.1	915.5	909.9	871.7	820.8	795.3	776.8	739.7	712.0
152.5°	914.4	931.5	914.4	897.4	893.1	860.5	817.0	795.3	778.6	745.2	720.1
155°	887.3	898.5	887.3	876.0	873.2	847.2	812.6	795.3	782.6	757.1	738.0
157.5°	865.8	873.7	865.8	857.8	855.8	835.7	808.7	795.3	786.5	769.0	755.8
160°	852.9	857.5	852.9	848.3	847.2	829.9	806.8	795.3	788.3	774.4	763.9
162.5°	844.5	848.8	844.5	840.1	839.1	824.5	805.1	795.3	790.2	780.2	772.6
165°	832.4	836.9	832.4	827.8	826.7	816.2	802.3	795.3	793.0	788.4	785.0
167.5°	823.6	825.6	823.6	821.7	821.3	814.4	805.2	800.7	798.8	794.9	792.1
170°	821.3	821.3	821.3	821.3	821.3	814.4	805.2	800.7	800.6	800.4	800.2
172.5°	814.8	813.2	814.8	816.5	816.9	811.5	804.3	800.7	800.7	800.7	800.7
175°	811.0	811.0	811.0	811.0	811.0	807.6	803.0	800.7	801.7	803.9	805.6
177.5°	807.5	805.6	807.5	809.4	809.9	807.2	803.6	801.7	802.6	804.3	805.6
180°	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6



TEST NUMBER: P934644

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1253.9	1246.8	1246.8	1235.1	1230.5	1227.0	1221.1	1203.6	1198.9	1194.3	1201.2
5°	1264.4	1251.5	1242.2	1221.1	1203.6	1196.6	1174.4	1132.2	1104.2	1083.1	1071.4
7.5°	1266.7	1250.4	1232.8	1200.1	1158.0	1139.2	1071.4	994.2	973.2	954.4	942.8
10°	1264.4	1245.7	1221.1	1172.0	1072.6	1039.8	972.0	921.7	908.8	905.3	908.8
12.5°	1256.3	1238.6	1204.7	1122.9	983.7	961.5	921.7	892.4	890.1	895.9	927.6
15°	1242.2	1225.8	1186.1	1057.3	934.6	918.2	890.1	879.6	892.4	933.4	1028.1
17.5°	1228.2	1209.4	1160.3	993.1	897.1	885.5	865.6	886.6	959.2	1014.1	1045.7
20°	1209.4	1187.2	1131.0	946.2	870.2	859.7	850.3	945.1	1000.0	1019.9	1037.5
22.5°	1187.2	1163.8	1091.3	913.5	842.1	834.0	839.9	977.8	1000.0	1014.1	1029.3
25°	1158.0	1138.1	1044.5	887.8	820.0	810.6	832.8	974.3	987.2	990.7	1021.2
27.5°	1131.0	1105.3	995.4	864.4	793.0	789.5	838.6	959.2	968.5	972.0	1004.8
30°	1098.3	1059.7	940.4	839.9	764.9	763.8	839.9	940.4	938.0	947.5	980.2
32.5°	1064.4	991.9	878.4	809.4	738.1	736.9	831.7	912.3	910.0	922.9	947.5
35°	1032.8	939.3	794.2	774.3	704.2	705.3	811.8	879.6	880.8	892.4	907.7
37.5°	1000.0	893.7	701.8	735.7	671.4	671.4	784.8	849.2	846.8	850.3	871.4
40°	961.5	822.2	619.9	685.4	640.9	637.5	752.1	816.4	808.2	807.1	836.3
42.5°	920.5	743.9	559.1	618.8	605.9	601.2	712.4	776.6	761.5	764.9	802.4
45°	876.0	722.8	512.3	522.9	569.6	566.1	669.0	731.0	720.5	729.9	768.4
47.5°	831.7	680.7	497.1	433.9	531.1	529.8	621.1	686.6	680.7	690.1	731.0
50°	770.8	634.0	495.9	371.9	487.7	492.4	563.8	643.3	643.3	651.5	694.7
52.5°	692.5	576.7	450.3	336.9	437.4	451.5	513.5	605.9	608.2	616.4	655.0
55°	621.1	517.0	417.5	309.9	377.8	408.2	464.4	567.3	572.0	580.2	615.2
57.5°	555.6	430.4	410.6	278.4	322.8	352.0	421.1	529.8	532.2	539.2	573.1
60°	485.4	311.1	376.6	244.4	274.9	297.1	381.3	485.4	493.6	498.3	527.5
62.5°	405.8	225.8	341.6	221.1	251.5	256.1	348.6	443.3	453.8	457.4	474.9
65°	288.9	189.5	290.0	201.2	226.9	228.1	313.5	400.0	409.4	415.3	428.1
67.5°	195.3	154.4	221.1	182.4	208.2	209.4	279.6	349.8	362.6	367.3	375.5
70°	135.7	102.9	163.8	162.5	187.1	189.5	243.3	304.1	315.9	319.3	324.0
72.5°	99.4	83.0	135.7	146.2	164.9	167.3	205.9	252.6	264.3	267.9	270.2
75°	76.0	87.7	110.0	127.5	140.4	141.5	168.4	205.9	214.1	216.4	217.6
77.5°	60.8	81.9	80.8	102.9	114.6	112.3	132.2	159.1	166.1	166.1	166.1
80°	45.6	64.4	60.8	73.7	84.2	81.9	94.7	113.5	115.8	118.2	116.9
82.5°	33.9	40.9	40.9	46.8	56.2	53.8	63.1	73.7	73.7	73.7	76.0
85°	21.0	23.4	18.7	24.6	31.6	30.4	35.1	39.8	40.9	40.9	38.6
87.5°	12.9	10.6	5.8	9.3	14.0	14.0	16.4	17.5	16.4	16.4	16.4
90°	14.1	9.8	5.4	9.8	14.1	15.2	23.8	35.3	41.1	36.5	27.4
92.5°	95.2	58.4	21.6	58.4	95.2	104.4	146.8	203.2	231.4	202.8	145.6
95°	186.4	119.2	51.9	119.2	186.4	203.3	360.9	571.2	676.3	603.5	457.9
97.5°	208.5	149.1	89.7	149.1	208.5	223.3	486.2	836.8	1012.1	966.0	874.0
100°	226.6	172.7	118.9	172.7	226.6	240.1	531.9	920.9	1115.3	1118.7	1125.4
102.5°	244.3	194.0	143.8	194.0	244.3	256.8	552.7	947.3	1144.5	1203.1	1320.4
105°	271.0	228.6	186.0	228.6	271.0	281.7	568.2	950.3	1141.3	1272.7	1535.6
107.5°	308.5	268.9	229.3	268.9	308.5	318.5	571.1	908.0	1076.4	1259.7	1626.4
110°	330.0	294.2	258.5	294.2	330.0	339.0	566.7	870.5	1022.4	1227.3	1637.2



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	355.3	321.2	287.1	321.2	355.3	363.8	566.9	837.8	973.2	1183.0	1602.5
115°	393.3	361.8	330.3	361.8	393.3	401.1	572.1	800.2	914.2	1116.3	1520.5
117.5°	430.3	401.7	373.1	401.7	430.3	437.4	582.9	776.7	873.7	1056.0	1420.8
120°	451.7	424.8	397.9	424.8	451.7	458.4	591.4	768.8	857.5	1024.1	1357.4
122.5°	476.6	449.4	422.2	449.4	476.6	483.4	603.9	764.6	845.0	995.1	1295.2
125°	509.0	484.3	459.6	484.3	509.0	515.2	620.6	761.2	831.5	959.0	1213.9
127.5°	539.8	514.8	489.8	514.8	539.8	546.1	637.5	759.3	820.1	929.6	1148.5
130°	559.8	532.9	506.0	532.9	559.8	566.6	649.7	760.5	815.9	913.3	1108.2
132.5°	576.7	549.7	522.8	549.7	576.7	583.4	659.6	761.2	812.0	899.2	1073.7
135°	596.7	572.1	547.6	572.1	596.7	602.8	670.4	760.5	805.6	878.7	1024.7
137.5°	621.6	597.3	573.1	597.3	621.6	627.7	686.6	765.2	804.5	866.2	989.8
140°	638.9	616.5	594.2	616.5	638.9	644.4	696.5	766.0	800.7	854.1	960.7
142.5°	651.8	631.1	610.4	631.1	651.8	656.9	704.9	768.8	800.7	847.5	941.3
145°	671.3	653.3	635.3	653.3	671.3	675.8	715.7	768.8	795.3	833.7	910.3
147.5°	695.3	677.7	660.1	677.7	695.3	699.6	731.5	774.0	795.3	825.5	885.7
150°	708.1	692.2	676.3	692.2	708.1	712.0	739.7	776.8	795.3	820.8	871.7
152.5°	717.2	705.1	693.1	705.1	717.2	720.1	745.2	778.6	795.3	817.0	860.5
155°	735.7	726.8	717.9	726.8	735.7	738.0	757.1	782.6	795.3	812.6	847.2
157.5°	753.6	745.0	736.3	745.0	753.6	755.8	769.0	786.5	795.3	808.7	835.7
160°	762.2	755.5	748.8	755.5	762.2	763.9	774.4	788.3	795.3	806.8	829.9
162.5°	771.3	766.3	761.2	766.3	771.3	772.6	780.2	790.2	795.3	805.1	824.5
165°	783.9	779.2	774.7	779.2	783.9	785.0	788.4	793.0	795.3	802.3	816.2
167.5°	791.5	789.4	787.2	789.4	791.5	792.1	794.9	798.8	800.7	805.2	814.4
170°	799.7	797.5	795.3	797.5	799.7	800.2	800.4	800.6	800.7	805.2	814.4
172.5°	800.6	800.1	799.7	800.1	800.6	800.7	800.7	800.7	800.7	804.3	811.5
175°	805.6	805.6	805.6	805.6	805.6	805.6	803.9	801.7	800.7	803.0	807.6
177.5°	805.6	805.6	805.6	805.6	805.6	805.6	804.3	802.6	801.7	803.6	807.2
180°	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6



TEST NUMBER: P934644

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1193.0	1189.5	1194.3	1181.3	1194.3	1189.5	1193.0	1201.2	1194.3	1198.9	1203.6
5°	1046.9	1041.0	1022.3	1007.1	1022.3	1041.0	1046.9	1071.4	1083.1	1104.2	1132.2
7.5°	935.7	931.1	926.4	917.0	926.4	931.1	935.7	942.8	954.4	973.2	994.2
10°	911.2	912.3	919.4	918.2	919.4	912.3	911.2	908.8	905.3	908.8	921.7
12.5°	974.3	984.9	1023.4	1021.2	1023.4	984.9	974.3	927.6	895.9	890.1	892.4
15°	1046.9	1050.4	1058.6	1059.7	1058.6	1050.4	1046.9	1028.1	933.4	892.4	879.6
17.5°	1053.9	1055.1	1060.9	1060.9	1060.9	1055.1	1053.9	1045.7	1014.1	959.2	886.6
20°	1048.0	1050.4	1062.1	1064.4	1062.1	1050.4	1048.0	1037.5	1019.9	1000.0	945.1
22.5°	1045.7	1050.4	1059.7	1058.6	1059.7	1050.4	1045.7	1029.3	1014.1	1000.0	977.8
25°	1034.0	1034.0	1035.2	1036.3	1035.2	1034.0	1034.0	1021.2	990.7	987.2	974.3
27.5°	1009.4	1011.7	1018.8	1017.6	1018.8	1011.7	1009.4	1004.8	972.0	968.5	959.2
30°	987.2	984.9	979.0	974.3	979.0	984.9	987.2	980.2	947.5	938.0	940.4
32.5°	949.7	943.9	938.0	934.6	938.0	943.9	949.7	947.5	922.9	910.0	912.3
35°	905.3	906.5	905.3	901.8	905.3	906.5	905.3	907.7	892.4	880.8	879.6
37.5°	873.8	876.0	874.9	870.2	874.9	876.0	873.8	871.4	850.3	846.8	849.2
40°	841.0	842.1	841.0	837.5	841.0	842.1	841.0	836.3	807.1	808.2	816.4
42.5°	809.4	808.2	804.7	802.4	804.7	808.2	809.4	802.4	764.9	761.5	776.6
45°	773.1	774.3	767.3	763.8	767.3	774.3	773.1	768.4	729.9	720.5	731.0
47.5°	736.9	736.9	731.0	727.5	731.0	736.9	736.9	731.0	690.1	680.7	686.6
50°	698.3	697.1	688.9	687.8	688.9	697.1	698.3	694.7	651.5	643.3	643.3
52.5°	653.9	653.9	655.0	657.3	655.0	653.9	653.9	655.0	616.4	608.2	605.9
55°	615.2	616.4	624.6	626.9	624.6	616.4	615.2	615.2	580.2	572.0	567.3
57.5°	575.5	575.5	581.3	581.3	581.3	575.5	575.5	573.1	539.2	532.2	529.8
60°	529.8	532.2	536.9	535.7	536.9	532.2	529.8	527.5	498.3	493.6	485.4
62.5°	481.9	484.2	485.4	483.1	485.4	484.2	481.9	474.9	457.4	453.8	443.3
65°	431.6	433.9	435.1	432.8	435.1	433.9	431.6	428.1	415.3	409.4	400.0
67.5°	380.1	379.0	377.8	382.5	377.8	379.0	380.1	375.5	367.3	362.6	349.8
70°	327.5	327.5	326.3	328.7	326.3	327.5	327.5	324.0	319.3	315.9	304.1
72.5°	271.4	270.2	274.9	271.4	274.9	270.2	271.4	270.2	267.9	264.3	252.6
75°	216.4	218.7	216.4	219.9	216.4	218.7	216.4	217.6	216.4	214.1	205.9
77.5°	164.9	167.3	164.9	164.9	164.9	167.3	164.9	166.1	166.1	166.1	159.1
80°	116.9	115.8	115.8	114.6	115.8	115.8	116.9	116.9	118.2	115.8	113.5
82.5°	74.8	73.7	73.7	76.0	73.7	73.7	74.8	76.0	73.7	73.7	73.7
85°	40.9	42.1	39.8	39.8	39.8	42.1	40.9	38.6	40.9	40.9	39.8
87.5°	15.2	14.0	14.0	14.0	14.0	14.0	15.2	16.4	16.4	16.4	17.5
90°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	27.4	36.5	41.1	35.3
92.5°	102.7	98.6	82.3	65.9	82.3	98.6	102.7	145.6	202.8	231.4	203.2
95°	348.7	336.3	286.9	237.4	286.9	336.3	348.7	457.9	603.5	676.3	571.2
97.5°	805.1	781.5	687.2	593.1	687.2	781.5	805.1	874.0	966.0	1012.1	836.8
100°	1130.5	1102.4	990.3	878.1	990.3	1102.4	1130.5	1125.4	1118.7	1115.3	920.9
102.5°	1408.4	1384.4	1288.3	1192.2	1288.3	1384.4	1408.4	1320.4	1203.1	1144.5	947.3
105°	1732.7	1719.8	1668.1	1616.5	1668.1	1719.8	1732.7	1535.6	1272.7	1141.3	950.3
107.5°	1901.5	1904.6	1917.1	1929.5	1917.1	1904.6	1901.5	1626.4	1259.7	1076.4	908.0
110°	1944.7	1958.2	2012.0	2065.8	2012.0	1958.2	1944.7	1637.2	1227.3	1022.4	870.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1917.2	1937.8	2020.4	2103.1	2020.4	1937.8	1917.2	1602.5	1183.0	973.2	837.8
115°	1823.6	1852.3	1966.9	2081.5	1966.9	1852.3	1823.6	1520.5	1116.3	914.2	800.2
117.5°	1694.4	1726.1	1853.2	1980.4	1853.2	1726.1	1694.4	1420.8	1056.0	873.7	776.7
120°	1607.3	1638.2	1761.8	1885.3	1761.8	1638.2	1607.3	1357.4	1024.1	857.5	768.8
122.5°	1520.3	1550.7	1672.6	1794.4	1672.6	1550.7	1520.3	1295.2	995.1	845.0	764.6
125°	1405.1	1433.2	1545.4	1657.6	1545.4	1433.2	1405.1	1213.9	959.0	831.5	761.2
127.5°	1312.7	1336.3	1431.0	1525.7	1431.0	1336.3	1312.7	1148.5	929.6	820.1	759.3
130°	1254.3	1276.2	1363.6	1451.1	1363.6	1276.2	1254.3	1108.2	913.3	815.9	760.5
132.5°	1204.5	1224.2	1302.5	1380.8	1302.5	1224.2	1204.5	1073.7	899.2	812.0	761.2
135°	1134.3	1151.2	1218.7	1286.2	1218.7	1151.2	1134.3	1024.7	878.7	805.6	760.5
137.5°	1082.4	1096.1	1151.4	1206.7	1151.4	1096.1	1082.4	989.8	866.2	804.5	765.2
140°	1040.8	1053.7	1105.4	1157.0	1105.4	1053.7	1040.8	960.7	854.1	800.7	766.0
142.5°	1011.6	1022.6	1067.1	1111.6	1067.1	1022.6	1011.6	941.3	847.5	800.7	768.8
145°	967.8	976.2	1009.8	1043.5	1009.8	976.2	967.8	910.3	833.7	795.3	768.8
147.5°	931.0	938.0	965.8	993.7	965.8	938.0	931.0	885.7	825.5	795.3	774.0
150°	909.9	915.5	938.1	960.7	938.1	915.5	909.9	871.7	820.8	795.3	776.8
152.5°	893.1	897.4	914.4	931.5	914.4	897.4	893.1	860.5	817.0	795.3	778.6
155°	873.2	876.0	887.3	898.5	887.3	876.0	873.2	847.2	812.6	795.3	782.6
157.5°	855.8	857.8	865.8	873.7	865.8	857.8	855.8	835.7	808.7	795.3	786.5
160°	847.2	848.3	852.9	857.5	852.9	848.3	847.2	829.9	806.8	795.3	788.3
162.5°	839.1	840.1	844.5	848.8	844.5	840.1	839.1	824.5	805.1	795.3	790.2
165°	826.7	827.8	832.4	836.9	832.4	827.8	826.7	816.2	802.3	795.3	793.0
167.5°	821.3	821.7	823.6	825.6	823.6	821.7	821.3	814.4	805.2	800.7	798.8
170°	821.3	821.3	821.3	821.3	821.3	821.3	821.3	814.4	805.2	800.7	800.6
172.5°	816.9	816.5	814.8	813.2	814.8	816.5	816.9	811.5	804.3	800.7	800.7
175°	811.0	811.0	811.0	811.0	811.0	811.0	811.0	807.6	803.0	800.7	801.7
177.5°	809.9	809.4	807.5	805.6	807.5	809.4	809.9	807.2	803.6	801.7	802.6
180°	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1221.1	1227.0	1230.5	1235.1	1246.8
5°	1174.4	1196.6	1203.6	1221.1	1242.2
7.5°	1071.4	1139.2	1158.0	1200.1	1232.8
10°	972.0	1039.8	1072.6	1172.0	1221.1
12.5°	921.7	961.5	983.7	1122.9	1204.7
15°	890.1	918.2	934.6	1057.3	1186.1
17.5°	865.6	885.5	897.1	993.1	1160.3
20°	850.3	859.7	870.2	946.2	1131.0
22.5°	839.9	834.0	842.1	913.5	1091.3
25°	832.8	810.6	820.0	887.8	1044.5
27.5°	838.6	789.5	793.0	864.4	995.4
30°	839.9	763.8	764.9	839.9	940.4
32.5°	831.7	736.9	738.1	809.4	878.4
35°	811.8	705.3	704.2	774.3	794.2
37.5°	784.8	671.4	671.4	735.7	701.8
40°	752.1	637.5	640.9	685.4	619.9
42.5°	712.4	601.2	605.9	618.8	559.1
45°	669.0	566.1	569.6	522.9	512.3
47.5°	621.1	529.8	531.1	433.9	497.1
50°	563.8	492.4	487.7	371.9	495.9
52.5°	513.5	451.5	437.4	336.9	450.3
55°	464.4	408.2	377.8	309.9	417.5
57.5°	421.1	352.0	322.8	278.4	410.6
60°	381.3	297.1	274.9	244.4	376.6
62.5°	348.6	256.1	251.5	221.1	341.6
65°	313.5	228.1	226.9	201.2	290.0
67.5°	279.6	209.4	208.2	182.4	221.1
70°	243.3	189.5	187.1	162.5	163.8
72.5°	205.9	167.3	164.9	146.2	135.7
75°	168.4	141.5	140.4	127.5	110.0
77.5°	132.2	112.3	114.6	102.9	80.8
80°	94.7	81.9	84.2	73.7	60.8
82.5°	63.1	53.8	56.2	46.8	40.9
85°	35.1	30.4	31.6	24.6	18.7
87.5°	16.4	14.0	14.0	9.3	5.8
90°	23.8	15.2	14.1	9.8	5.4
92.5°	146.8	104.4	95.2	58.4	21.6
95°	360.9	203.3	186.4	119.2	51.9
97.5°	486.2	223.3	208.5	149.1	89.7
100°	531.9	240.1	226.6	172.7	118.9
102.5°	552.7	256.8	244.3	194.0	143.8
105°	568.2	281.7	271.0	228.6	186.0
107.5°	571.1	318.5	308.5	268.9	229.3
110°	566.7	339.0	330.0	294.2	258.5



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CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	566.9	363.8	355.3	321.2	287.1
115°	572.1	401.1	393.3	361.8	330.3
117.5°	582.9	437.4	430.3	401.7	373.1
120°	591.4	458.4	451.7	424.8	397.9
122.5°	603.9	483.4	476.6	449.4	422.2
125°	620.6	515.2	509.0	484.3	459.6
127.5°	637.5	546.1	539.8	514.8	489.8
130°	649.7	566.6	559.8	532.9	506.0
132.5°	659.6	583.4	576.7	549.7	522.8
135°	670.4	602.8	596.7	572.1	547.6
137.5°	686.6	627.7	621.6	597.3	573.1
140°	696.5	644.4	638.9	616.5	594.2
142.5°	704.9	656.9	651.8	631.1	610.4
145°	715.7	675.8	671.3	653.3	635.3
147.5°	731.5	699.6	695.3	677.7	660.1
150°	739.7	712.0	708.1	692.2	676.3
152.5°	745.2	720.1	717.2	705.1	693.1
155°	757.1	738.0	735.7	726.8	717.9
157.5°	769.0	755.8	753.6	745.0	736.3
160°	774.4	763.9	762.2	755.5	748.8
162.5°	780.2	772.6	771.3	766.3	761.2
165°	788.4	785.0	783.9	779.2	774.7
167.5°	794.9	792.1	791.5	789.4	787.2
170°	800.4	800.2	799.7	797.5	795.3
172.5°	800.7	800.7	800.6	800.1	799.7
175°	803.9	805.6	805.6	805.6	805.6
177.5°	804.3	805.6	805.6	805.6	805.6
180°	805.6	805.6	805.6	805.6	805.6



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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	9.66	10.42	10.71	11.48	12.91	12.50	13.26	13.55	14.32	15.75
	3H	10.13	10.81	11.19	11.88	13.33	13.84	14.52	14.90	15.59	17.04
	4H	10.32	10.96	11.39	12.03	13.49	14.28	14.93	15.35	16.00	17.45
	6H	10.43	11.03	11.51	12.10	13.57	14.56	15.16	15.65	16.23	17.70
	8H	10.43	11.00	11.52	12.08	13.55	14.63	15.20	15.72	16.29	17.75
	12H	10.40	10.93	11.49	12.02	13.50	14.67	15.21	15.76	16.29	17.78
4H	2H	10.68	11.33	11.76	12.40	13.86	12.89	13.54	13.98	14.61	16.07
	3H	11.70	12.24	12.79	13.34	14.81	14.39	14.93	15.48	16.03	17.50
	4H	11.97	12.47	13.07	13.55	15.04	14.92	15.41	16.01	16.50	17.99
	6H	12.09	12.52	13.19	13.63	15.11	15.28	15.71	16.38	16.81	18.30
	8H	12.09	12.49	13.20	13.59	15.09	15.39	15.78	16.49	16.88	18.38
	12H	12.06	12.42	13.18	13.53	15.04	15.44	15.80	16.56	16.91	18.42
8H	4H	12.42	12.82	13.52	13.92	15.42	15.04	15.43	16.14	16.53	18.03
	6H	12.68	13.00	13.80	14.15	15.64	15.47	15.80	16.59	16.94	18.44
	8H	12.72	13.00	13.85	14.13	15.65	15.62	15.91	16.75	17.03	18.55
	12H	12.70	12.95	13.83	14.07	15.62	15.72	15.97	16.85	17.09	18.64
12H	4H	12.42	12.78	13.54	13.89	15.40	15.00	15.35	16.11	16.47	17.97
	6H	12.74	13.02	13.87	14.15	15.67	15.47	15.75	16.60	16.88	18.39
	8H	12.80	13.05	13.93	14.17	15.73	15.62	15.88	16.76	17.00	18.55