

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: P934666

Luminaire Tested: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934666
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-93050-1D-UNV-STD-W-8-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

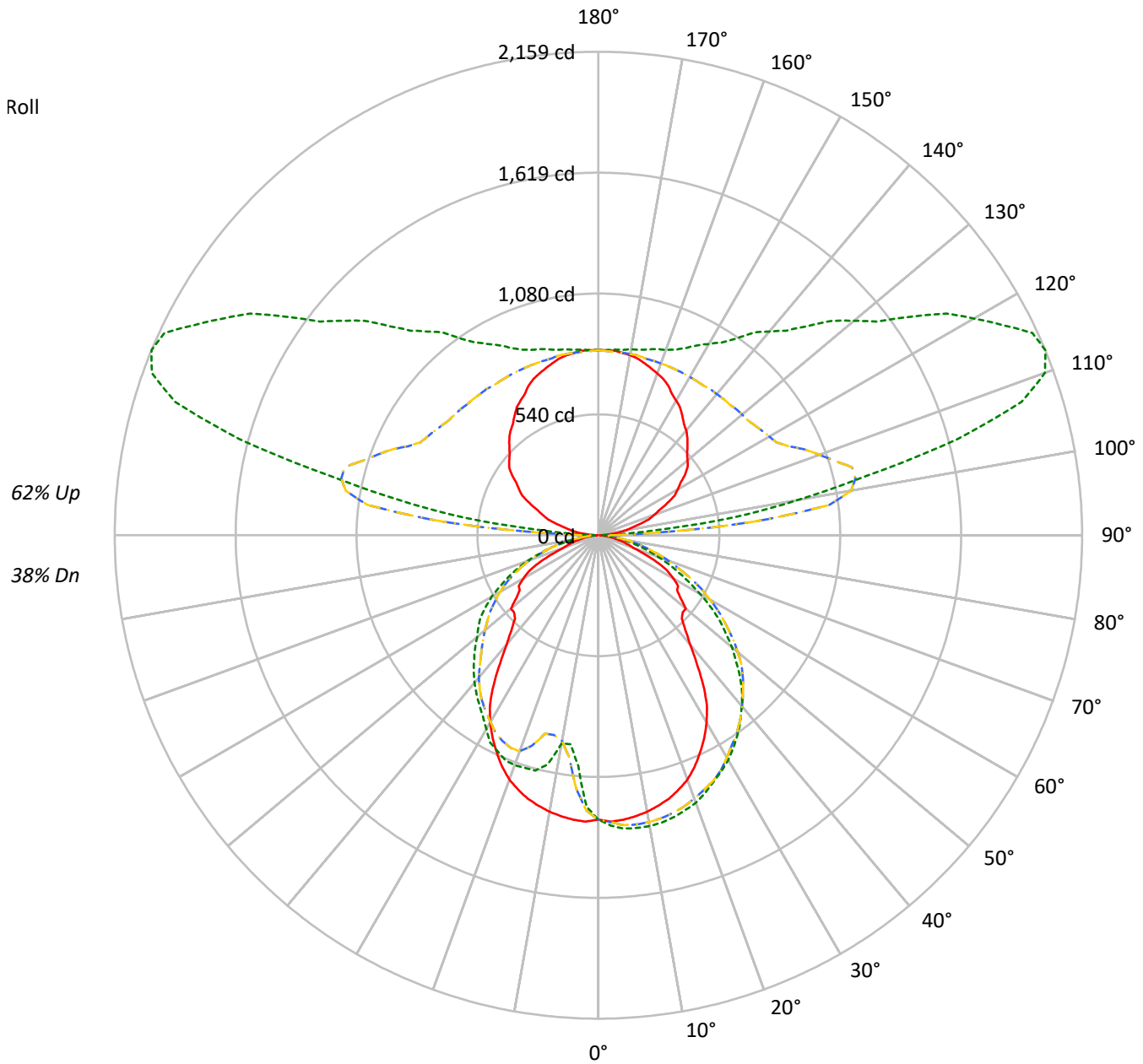
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8655.9 lumens
Efficiency: N/A
Efficacy: 125.8 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				
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5890	5890	5890	5890
5°	5933	5945	5933	4675
10°	5893	5856	5893	4187
15°	5829	5729	5829	4784
20°	5707	5579	5707	4794
25°	5458	5360	5458	4692
30°	5135	5178	5135	4469
35°	4578	4947	4578	4224
40°	3815	4676	3815	4039
45°	3409	4359	3409	3826
50°	3621	3981	3621	3612
55°	3407	3573	3407	3488
60°	3512	3035	3512	3195
65°	3184	2509	3184	2804
70°	2205	1999	2205	2350
75°	1934	1478	1934	1770
80°	1557	977	1557	1063
85°	894	518	894	440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5224 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	1.3
10°-20°	325.3	3.8
20°-30°	502.9	5.8
30°-40°	600.3	6.9
40°-50°	603.9	7.0
50°-60°	525.4	6.1
60°-70°	372.5	4.3
70°-80°	197.1	2.3
80°-90°	52.2	0.6
90°-100°	403.2	4.7
100°-110°	1059.9	12.2
110°-120°	1099.0	12.7
120°-130°	881.5	10.2
130°-140°	691.7	8.0
140°-150°	530.9	6.1
150°-160°	382.3	4.4
160°-170°	233.9	2.7
170°-180°	79.0	0.9
0°-30°	942.8	10.9
0°-40°	1543.1	17.8
0°-60°	2672.4	30.9
0°-90°	3294.3	38.1
90°-120°	2562.1	29.6
90°-150°	4666.3	53.9
90°-180°	5362.0	61.9
0°-180°	8655.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1269	1269	1269	1269	1269	
5°	1275	1315	1275	1034	1275	121
15°	1218	1303	1218	1088	1218	343
25°	1072	1215	1072	1064	1072	492
35°	815	1084	815	926	815	504
45°	526	893	526	784	526	421
55°	429	659	429	644	429	394
65°	298	398	298	444	298	285
75°	113	189	113	226	113	119
85°	19	48	19	41	19	26
90°	6	21	6	21	6	5
95°	53	244	53	244	53	59
105°	191	1660	191	1660	191	202
115°	339	2137	339	2137	339	335
125°	472	1702	472	1702	472	419
135°	562	1320	562	1320	562	435
145°	652	1071	652	1071	652	409
155°	737	922	737	922	737	339
165°	795	859	795	859	795	224
175°	827	833	827	833	827	79
180°	827	827	827	827	827	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1280.1	1280.1	1287.4	1289.8	1289.8	1286.1	1282.5	1286.1	1296.9	1300.5	1299.4
5°	1275.4	1285.0	1298.2	1300.5	1302.9	1301.8	1299.4	1301.8	1313.8	1316.2	1317.4
7.5°	1265.7	1283.8	1300.5	1304.2	1307.8	1304.2	1302.9	1305.4	1317.4	1319.8	1319.8
10°	1253.7	1279.0	1298.2	1300.5	1304.2	1300.5	1300.5	1305.4	1317.4	1319.8	1320.9
12.5°	1236.9	1271.7	1289.8	1292.1	1296.9	1295.8	1294.5	1299.4	1311.4	1313.8	1313.8
15°	1217.7	1258.5	1275.4	1277.7	1286.1	1283.8	1283.8	1288.5	1301.8	1305.4	1304.2
17.5°	1191.3	1241.7	1261.0	1264.5	1270.5	1269.4	1270.5	1275.4	1287.4	1289.8	1291.0
20°	1161.2	1218.9	1241.7	1245.3	1251.3	1251.3	1251.3	1257.3	1269.4	1274.1	1274.1
22.5°	1120.4	1194.9	1218.9	1221.3	1228.5	1228.5	1230.9	1239.3	1250.1	1251.3	1251.3
25°	1072.4	1168.5	1188.9	1196.0	1203.3	1206.9	1210.5	1215.3	1218.9	1217.7	1218.9
27.5°	1022.0	1134.8	1161.2	1166.1	1175.6	1179.3	1184.1	1185.3	1186.5	1190.0	1187.7
30°	965.5	1088.0	1127.6	1132.5	1148.1	1150.5	1145.6	1148.1	1154.1	1156.5	1158.9
32.5°	901.8	1018.3	1092.8	1103.7	1118.1	1110.8	1109.6	1113.2	1122.8	1122.8	1125.2
35°	815.4	964.3	1060.4	1070.0	1080.8	1072.4	1077.2	1078.4	1084.4	1088.0	1086.8
37.5°	720.5	917.5	1026.7	1034.0	1042.4	1031.6	1038.7	1042.4	1047.2	1044.7	1044.7
40°	636.5	844.2	987.2	991.9	999.2	990.8	997.9	1000.3	1002.7	1000.3	999.2
42.5°	574.0	763.8	945.1	951.1	946.3	952.3	954.7	959.5	955.9	951.1	951.1
45°	526.0	742.1	899.4	906.7	899.4	909.1	912.7	912.7	901.8	899.4	898.3
47.5°	510.4	698.9	853.9	853.9	850.2	862.3	868.3	859.9	849.0	845.4	845.4
50°	509.2	650.9	791.4	786.6	803.4	817.8	811.8	803.4	794.9	781.8	781.8
52.5°	462.3	592.1	711.0	729.0	755.4	763.8	754.1	745.8	731.4	725.3	720.5
55°	428.7	530.8	637.6	673.7	701.3	712.1	694.1	685.7	664.1	660.5	658.1
57.5°	421.5	441.9	570.4	616.1	649.6	648.5	637.6	622.1	604.1	600.5	599.2
60°	386.7	319.4	498.3	552.4	587.2	583.7	574.0	559.6	542.8	540.4	538.0
62.5°	350.7	231.8	416.7	477.9	527.2	526.0	517.6	496.0	483.9	477.9	473.2
65°	297.8	194.6	296.6	397.5	468.3	470.8	452.8	437.1	423.9	416.7	415.5
67.5°	227.0	158.6	200.5	331.4	411.9	409.5	386.7	379.5	362.7	359.1	351.9
70°	168.1	105.6	139.3	269.0	356.7	350.7	332.6	324.3	308.6	300.2	295.5
72.5°	139.3	85.2	102.1	209.0	300.2	293.0	277.4	267.8	254.6	247.4	242.5
75°	112.9	90.1	78.1	154.9	243.8	239.0	224.5	215.0	204.1	194.6	195.7
77.5°	82.9	84.1	62.4	114.1	193.4	186.1	177.7	165.7	160.9	151.3	151.3
80°	62.4	66.1	46.8	78.1	139.3	139.3	132.1	123.7	115.3	110.5	110.5
82.5°	42.0	42.0	34.8	49.2	94.9	91.2	86.5	84.1	79.2	76.8	76.8
85°	19.2	24.0	21.6	30.0	51.7	54.1	54.1	51.7	50.4	48.1	49.2
87.5°	6.0	10.8	13.3	16.8	26.4	27.7	28.8	28.8	28.8	30.0	30.0
90°	5.6	10.0	14.5	15.6	24.4	36.3	42.2	37.5	28.1	21.1	21.1
92.5°	22.2	60.0	97.8	107.2	150.7	208.6	237.6	208.2	149.5	105.5	101.3
95°	53.3	122.4	191.4	208.7	370.6	586.4	694.4	619.6	470.1	358.0	345.3
97.5°	92.1	153.1	214.1	229.3	499.2	859.1	1039.1	991.8	897.4	826.6	802.4
100°	122.1	177.4	232.7	246.5	546.1	945.4	1145.1	1148.6	1155.5	1160.7	1131.9
102.5°	147.6	199.2	250.8	263.7	567.4	972.6	1175.1	1235.3	1355.7	1446.0	1421.3
105°	191.0	234.7	278.3	289.2	583.4	975.6	1171.8	1306.7	1576.6	1779.0	1765.7
107.5°	235.4	276.1	316.8	327.0	586.3	932.2	1105.2	1293.4	1669.8	1952.2	1955.5
110°	265.4	302.1	338.8	348.0	581.9	893.7	1049.7	1260.1	1680.9	1996.6	2010.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	294.7	329.7	364.8	373.5	582.0	860.1	999.2	1214.6	1645.3	1968.3	1989.6
115°	339.1	371.5	403.8	411.8	587.4	821.5	938.6	1146.1	1561.1	1872.3	1901.7
117.5°	383.0	412.4	441.7	449.1	598.4	797.5	897.0	1084.2	1458.7	1739.6	1772.2
120°	408.5	436.1	463.8	470.7	607.2	789.3	880.4	1051.5	1393.6	1650.2	1681.9
122.5°	433.5	461.4	489.3	496.3	620.0	785.0	867.6	1021.6	1329.8	1560.9	1592.1
125°	471.8	497.3	522.6	529.0	637.2	781.5	853.7	984.6	1246.3	1442.6	1471.4
127.5°	502.9	528.6	554.2	560.6	654.5	779.5	842.0	954.4	1179.1	1347.7	1372.0
130°	519.5	547.1	574.8	581.7	667.0	780.8	837.7	937.7	1137.8	1287.8	1310.3
132.5°	536.7	564.4	592.1	599.0	677.2	781.5	833.7	923.2	1102.4	1236.7	1256.8
135°	562.3	587.4	612.7	618.9	688.3	780.8	827.1	902.1	1052.1	1164.5	1181.9
137.5°	588.4	613.3	638.2	644.4	705.0	785.6	825.9	889.3	1016.2	1111.3	1125.4
140°	610.1	633.0	655.9	661.6	715.1	786.4	822.1	876.9	986.4	1068.6	1081.8
142.5°	626.7	647.9	669.2	674.4	723.7	789.3	822.1	870.2	966.4	1038.6	1049.9
145°	652.2	670.8	689.2	693.9	734.8	789.3	816.5	855.9	934.6	993.6	1002.2
147.5°	677.8	695.7	713.8	718.3	751.1	794.7	816.5	847.5	909.4	955.8	963.0
150°	694.4	710.7	727.0	731.0	759.5	797.5	816.5	842.7	895.0	934.2	940.0
152.5°	711.6	723.9	736.3	739.3	765.0	799.3	816.5	838.8	883.5	917.0	921.4
155°	737.1	746.2	755.4	757.7	777.3	803.5	816.5	834.3	869.8	896.5	899.3
157.5°	756.0	764.9	773.7	776.0	789.5	807.5	816.5	830.3	858.0	878.7	880.7
160°	768.8	775.7	782.6	784.3	795.0	809.4	816.5	828.3	852.1	869.8	871.0
162.5°	781.5	786.7	791.9	793.2	801.0	811.3	816.5	826.6	846.5	861.5	862.5
165°	795.4	800.1	804.8	806.0	809.5	814.2	816.5	823.7	838.0	848.8	849.9
167.5°	808.2	810.4	812.7	813.2	816.2	820.1	822.1	826.7	836.1	843.2	843.7
170°	816.5	818.8	821.0	821.5	821.7	822.0	822.1	826.7	836.1	843.2	843.2
172.5°	821.0	821.4	822.0	822.1	822.1	822.1	822.1	825.7	833.2	838.7	838.3
175°	827.1	827.1	827.1	827.1	825.4	823.1	822.1	824.4	829.1	832.6	832.6
177.5°	827.1	827.1	827.1	827.1	825.7	824.0	823.1	825.0	828.7	831.5	831.0
180°	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1301.8	1298.2	1301.8	1299.4	1300.5	1296.9	1286.1	1282.5	1286.1	1289.8	1289.8
5°	1317.4	1314.9	1317.4	1317.4	1316.2	1313.8	1301.8	1299.4	1301.8	1302.9	1300.5
7.5°	1322.2	1318.6	1322.2	1319.8	1319.8	1317.4	1305.4	1302.9	1304.2	1307.8	1304.2
10°	1322.2	1318.6	1322.2	1320.9	1319.8	1317.4	1305.4	1300.5	1300.5	1304.2	1300.5
12.5°	1316.2	1313.8	1316.2	1313.8	1313.8	1311.4	1299.4	1294.5	1295.8	1296.9	1292.1
15°	1306.5	1302.9	1306.5	1304.2	1305.4	1301.8	1288.5	1283.8	1283.8	1286.1	1277.7
17.5°	1292.1	1287.4	1292.1	1291.0	1289.8	1287.4	1275.4	1270.5	1269.4	1270.5	1264.5
20°	1275.4	1271.7	1275.4	1274.1	1274.1	1269.4	1257.3	1251.3	1251.3	1251.3	1245.3
22.5°	1249.0	1245.3	1249.0	1251.3	1251.3	1250.1	1239.3	1230.9	1228.5	1228.5	1221.3
25°	1218.9	1215.3	1218.9	1218.9	1217.7	1218.9	1215.3	1210.5	1206.9	1203.3	1196.0
27.5°	1190.0	1187.7	1190.0	1187.7	1190.0	1186.5	1185.3	1184.1	1179.3	1175.6	1166.1
30°	1161.2	1158.9	1161.2	1158.9	1156.5	1154.1	1148.1	1145.6	1150.5	1148.1	1132.5
32.5°	1125.2	1122.8	1125.2	1125.2	1122.8	1122.8	1113.2	1109.6	1110.8	1118.1	1103.7
35°	1088.0	1084.4	1088.0	1086.8	1088.0	1084.4	1078.4	1077.2	1072.4	1080.8	1070.0
37.5°	1044.7	1041.2	1044.7	1044.7	1044.7	1047.2	1042.4	1038.7	1031.6	1042.4	1034.0
40°	1000.3	995.5	1000.3	999.2	1000.3	1002.7	1000.3	997.9	990.8	999.2	991.9
42.5°	949.9	948.7	949.9	951.1	951.1	955.9	959.5	954.7	952.3	946.3	951.1
45°	895.8	893.4	895.8	898.3	899.4	901.8	912.7	912.7	909.1	899.4	906.7
47.5°	838.2	832.2	838.2	845.4	845.4	849.0	859.9	868.3	862.3	850.2	853.9
50°	777.0	778.2	777.0	781.8	781.8	794.9	803.4	811.8	817.8	803.4	786.6
52.5°	717.0	715.7	717.0	720.5	725.3	731.4	745.8	754.1	763.8	755.4	729.0
55°	656.9	659.3	656.9	658.1	660.5	664.1	685.7	694.1	712.1	701.3	673.7
57.5°	596.8	593.2	596.8	599.2	600.5	604.1	622.1	637.6	648.5	649.6	616.1
60°	527.2	522.4	527.2	538.0	540.4	542.8	559.6	574.0	583.7	587.2	552.4
62.5°	465.9	457.5	465.9	473.2	477.9	483.9	496.0	517.6	526.0	527.2	477.9
65°	401.1	397.5	401.1	415.5	416.7	423.9	437.1	452.8	470.8	468.3	397.5
67.5°	342.3	342.3	342.3	351.9	359.1	362.7	379.5	386.7	409.5	411.9	331.4
70°	288.2	287.0	288.2	295.5	300.2	308.6	324.3	332.6	350.7	356.7	269.0
72.5°	236.5	235.4	236.5	242.5	247.4	254.6	267.8	277.4	293.0	300.2	209.0
75°	191.0	188.6	191.0	195.7	194.6	204.1	215.0	224.5	239.0	243.8	154.9
77.5°	146.5	146.5	146.5	151.3	151.3	160.9	165.7	177.7	186.1	193.4	114.1
80°	109.3	108.1	109.3	110.5	110.5	115.3	123.7	132.1	139.3	139.3	78.1
82.5°	76.8	74.5	76.8	76.8	76.8	79.2	84.1	86.5	91.2	94.9	49.2
85°	48.1	48.1	48.1	49.2	48.1	50.4	51.7	54.1	54.1	51.7	30.0
87.5°	31.2	30.0	31.2	30.0	30.0	28.8	28.8	28.8	27.7	26.4	16.8
90°	21.1	21.1	21.1	21.1	21.1	28.1	37.5	42.2	36.3	24.4	15.6
92.5°	84.5	67.7	84.5	101.3	105.5	149.5	208.2	237.6	208.6	150.7	107.2
95°	294.6	243.7	294.6	345.3	358.0	470.1	619.6	694.4	586.4	370.6	208.7
97.5°	705.6	608.9	705.6	802.4	826.6	897.4	991.8	1039.1	859.1	499.2	229.3
100°	1016.7	901.5	1016.7	1131.9	1160.7	1155.5	1148.6	1145.1	945.4	546.1	246.5
102.5°	1322.6	1224.0	1322.6	1421.3	1446.0	1355.7	1235.3	1175.1	972.6	567.4	263.7
105°	1712.6	1659.6	1712.6	1765.7	1779.0	1576.6	1306.7	1171.8	975.6	583.4	289.2
107.5°	1968.3	1981.1	1968.3	1955.5	1952.2	1669.8	1293.4	1105.2	932.2	586.3	327.0
110°	2065.8	2121.0	2065.8	2010.4	1996.6	1680.9	1260.1	1049.7	893.7	581.9	348.0



TEST NUMBER: P934666

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2074.3	2159.2	2074.3	1989.6	1968.3	1645.3	1214.6	999.2	860.1	582.0	373.5
115°	2019.4	2137.0	2019.4	1901.7	1872.3	1561.1	1146.1	938.6	821.5	587.4	411.8
117.5°	1902.7	2033.3	1902.7	1772.2	1739.6	1458.7	1084.2	897.0	797.5	598.4	449.1
120°	1808.8	1935.6	1808.8	1681.9	1650.2	1393.6	1051.5	880.4	789.3	607.2	470.7
122.5°	1717.2	1842.3	1717.2	1592.1	1560.9	1329.8	1021.6	867.6	785.0	620.0	496.3
125°	1586.7	1701.9	1586.7	1471.4	1442.6	1246.3	984.6	853.7	781.5	637.2	529.0
127.5°	1469.2	1566.4	1469.2	1372.0	1347.7	1179.1	954.4	842.0	779.5	654.5	560.6
130°	1400.0	1489.8	1400.0	1310.3	1287.8	1137.8	937.7	837.7	780.8	667.0	581.7
132.5°	1337.2	1417.6	1337.2	1256.8	1236.7	1102.4	923.2	833.7	781.5	677.2	599.0
135°	1251.2	1320.5	1251.2	1181.9	1164.5	1052.1	902.1	827.1	780.8	688.3	618.9
137.5°	1182.2	1238.9	1182.2	1125.4	1111.3	1016.2	889.3	825.9	785.6	705.0	644.4
140°	1134.9	1187.9	1134.9	1081.8	1068.6	986.4	876.9	822.1	786.4	715.1	661.6
142.5°	1095.6	1141.3	1095.6	1049.9	1038.6	966.4	870.2	822.1	789.3	723.7	674.4
145°	1036.8	1071.3	1036.8	1002.2	993.6	934.6	855.9	816.5	789.3	734.8	693.9
147.5°	991.6	1020.2	991.6	963.0	955.8	909.4	847.5	816.5	794.7	751.1	718.3
150°	963.2	986.4	963.2	940.0	934.2	895.0	842.7	816.5	797.5	759.5	731.0
152.5°	938.8	956.4	938.8	921.4	917.0	883.5	838.8	816.5	799.3	765.0	739.3
155°	911.0	922.5	911.0	899.3	896.5	869.8	834.3	816.5	803.5	777.3	757.7
157.5°	888.9	897.0	888.9	880.7	878.7	858.0	830.3	816.5	807.5	789.5	776.0
160°	875.7	880.4	875.7	871.0	869.8	852.1	828.3	816.5	809.4	795.0	784.3
162.5°	867.0	871.5	867.0	862.5	861.5	846.5	826.6	816.5	811.3	801.0	793.2
165°	854.6	859.2	854.6	849.9	848.8	838.0	823.7	816.5	814.2	809.5	806.0
167.5°	845.6	847.6	845.6	843.7	843.2	836.1	826.7	822.1	820.1	816.2	813.2
170°	843.2	843.2	843.2	843.2	843.2	836.1	826.7	822.1	822.0	821.7	821.5
172.5°	836.6	834.9	836.6	838.3	838.7	833.2	825.7	822.1	822.1	822.1	822.1
175°	832.6	832.6	832.6	832.6	832.6	829.1	824.4	822.1	823.1	825.4	827.1
177.5°	829.1	827.1	829.1	831.0	831.5	828.7	825.0	823.1	824.0	825.7	827.1
180°	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1



TEST NUMBER: P934666

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1287.4	1280.1	1280.1	1268.1	1263.4	1259.7	1253.7	1235.7	1230.9	1226.1	1233.3
5°	1298.2	1285.0	1275.4	1253.7	1235.7	1228.5	1205.7	1162.5	1133.6	1112.0	1100.0
7.5°	1300.5	1283.8	1265.7	1232.1	1188.9	1169.6	1100.0	1020.7	999.2	979.9	967.9
10°	1298.2	1279.0	1253.7	1203.3	1101.2	1067.6	997.9	946.3	933.1	929.5	933.1
12.5°	1289.8	1271.7	1236.9	1152.9	1009.9	987.2	946.3	916.3	913.8	919.8	952.3
15°	1275.4	1258.5	1217.7	1085.6	959.5	942.7	913.8	903.1	916.3	958.3	1055.6
17.5°	1261.0	1241.7	1191.3	1019.6	921.1	909.1	888.7	910.3	984.8	1041.2	1073.6
20°	1241.7	1218.9	1161.2	971.5	893.4	882.7	873.0	970.3	1026.7	1047.2	1065.2
22.5°	1218.9	1194.9	1120.4	937.9	864.6	856.3	862.3	1003.9	1026.7	1041.2	1056.7
25°	1188.9	1168.5	1072.4	911.5	841.9	832.2	855.0	1000.3	1013.6	1017.2	1048.4
27.5°	1161.2	1134.8	1022.0	887.4	814.2	810.6	861.0	984.8	994.3	997.9	1031.6
30°	1127.6	1088.0	965.5	862.3	785.4	784.2	862.3	965.5	963.1	972.8	1006.3
32.5°	1092.8	1018.3	901.8	831.0	757.8	756.5	853.9	936.7	934.3	947.5	972.8
35°	1060.4	964.3	815.4	794.9	723.0	724.1	833.4	903.1	904.3	916.3	931.9
37.5°	1026.7	917.5	720.5	755.4	689.3	689.3	805.8	871.9	869.4	873.0	894.7
40°	987.2	844.2	636.5	703.7	658.1	654.5	772.2	838.2	829.8	828.6	858.6
42.5°	945.1	763.8	574.0	635.3	622.1	617.2	731.4	797.4	781.8	785.4	823.8
45°	899.4	742.1	526.0	536.8	584.8	581.2	686.9	750.5	739.7	749.4	788.9
47.5°	853.9	698.9	510.4	445.5	545.2	544.0	637.6	704.9	698.9	708.5	750.5
50°	791.4	650.9	509.2	381.9	500.7	505.6	578.8	660.5	660.5	668.9	713.3
52.5°	711.0	592.1	462.3	345.9	449.1	463.5	527.2	622.1	624.5	632.9	672.5
55°	637.6	530.8	428.7	318.2	387.8	419.1	476.8	582.4	587.2	595.7	631.6
57.5°	570.4	441.9	421.5	285.8	331.4	361.4	432.3	544.0	546.4	553.6	588.4
60°	498.3	319.4	386.7	251.0	282.2	305.0	391.5	498.3	506.7	511.6	541.6
62.5°	416.7	231.8	350.7	227.0	258.2	263.0	357.9	455.2	465.9	469.6	487.6
65°	296.6	194.6	297.8	206.5	233.0	234.2	321.9	410.7	420.3	426.3	439.5
67.5°	200.5	158.6	227.0	187.3	213.8	215.0	287.0	359.1	372.3	377.1	385.5
70°	139.3	105.6	168.1	166.9	192.1	194.6	249.8	312.2	324.3	327.9	332.6
72.5°	102.1	85.2	139.3	150.1	169.3	171.7	211.4	259.4	271.4	275.0	277.4
75°	78.1	90.1	112.9	130.9	144.1	145.3	172.9	211.4	219.8	222.1	223.4
77.5°	62.4	84.1	82.9	105.6	117.6	115.3	135.7	163.3	170.6	170.6	170.6
80°	46.8	66.1	62.4	75.7	86.5	84.1	97.2	116.5	118.9	121.3	120.1
82.5°	34.8	42.0	42.0	48.1	57.7	55.2	64.8	75.7	75.7	75.7	78.1
85°	21.6	24.0	19.2	25.2	32.4	31.2	36.0	40.8	42.0	42.0	39.7
87.5°	13.3	10.8	6.0	9.6	14.4	14.4	16.8	18.0	16.8	16.8	16.8
90°	14.5	10.0	5.6	10.0	14.5	15.6	24.4	36.3	42.2	37.5	28.1
92.5°	97.8	60.0	22.2	60.0	97.8	107.2	150.7	208.6	237.6	208.2	149.5
95°	191.4	122.4	53.3	122.4	191.4	208.7	370.6	586.4	694.4	619.6	470.1
97.5°	214.1	153.1	92.1	153.1	214.1	229.3	499.2	859.1	1039.1	991.8	897.4
100°	232.7	177.4	122.1	177.4	232.7	246.5	546.1	945.4	1145.1	1148.6	1155.5
102.5°	250.8	199.2	147.6	199.2	250.8	263.7	567.4	972.6	1175.1	1235.3	1355.7
105°	278.3	234.7	191.0	234.7	278.3	289.2	583.4	975.6	1171.8	1306.7	1576.6
107.5°	316.8	276.1	235.4	276.1	316.8	327.0	586.3	932.2	1105.2	1293.4	1669.8
110°	338.8	302.1	265.4	302.1	338.8	348.0	581.9	893.7	1049.7	1260.1	1680.9



TEST NUMBER: P934666

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	364.8	329.7	294.7	329.7	364.8	373.5	582.0	860.1	999.2	1214.6	1645.3
115°	403.8	371.5	339.1	371.5	403.8	411.8	587.4	821.5	938.6	1146.1	1561.1
117.5°	441.7	412.4	383.0	412.4	441.7	449.1	598.4	797.5	897.0	1084.2	1458.7
120°	463.8	436.1	408.5	436.1	463.8	470.7	607.2	789.3	880.4	1051.5	1393.6
122.5°	489.3	461.4	433.5	461.4	489.3	496.3	620.0	785.0	867.6	1021.6	1329.8
125°	522.6	497.3	471.8	497.3	522.6	529.0	637.2	781.5	853.7	984.6	1246.3
127.5°	554.2	528.6	502.9	528.6	554.2	560.6	654.5	779.5	842.0	954.4	1179.1
130°	574.8	547.1	519.5	547.1	574.8	581.7	667.0	780.8	837.7	937.7	1137.8
132.5°	592.1	564.4	536.7	564.4	592.1	599.0	677.2	781.5	833.7	923.2	1102.4
135°	612.7	587.4	562.3	587.4	612.7	618.9	688.3	780.8	827.1	902.1	1052.1
137.5°	638.2	613.3	588.4	613.3	638.2	644.4	705.0	785.6	825.9	889.3	1016.2
140°	655.9	633.0	610.1	633.0	655.9	661.6	715.1	786.4	822.1	876.9	986.4
142.5°	669.2	647.9	626.7	647.9	669.2	674.4	723.7	789.3	822.1	870.2	966.4
145°	689.2	670.8	652.2	670.8	689.2	693.9	734.8	789.3	816.5	855.9	934.6
147.5°	713.8	695.7	677.8	695.7	713.8	718.3	751.1	794.7	816.5	847.5	909.4
150°	727.0	710.7	694.4	710.7	727.0	731.0	759.5	797.5	816.5	842.7	895.0
152.5°	736.3	723.9	711.6	723.9	736.3	739.3	765.0	799.3	816.5	838.8	883.5
155°	755.4	746.2	737.1	746.2	755.4	757.7	777.3	803.5	816.5	834.3	869.8
157.5°	773.7	764.9	756.0	764.9	773.7	776.0	789.5	807.5	816.5	830.3	858.0
160°	782.6	775.7	768.8	775.7	782.6	784.3	795.0	809.4	816.5	828.3	852.1
162.5°	791.9	786.7	781.5	786.7	791.9	793.2	801.0	811.3	816.5	826.6	846.5
165°	804.8	800.1	795.4	800.1	804.8	806.0	809.5	814.2	816.5	823.7	838.0
167.5°	812.7	810.4	808.2	810.4	812.7	813.2	816.2	820.1	822.1	826.7	836.1
170°	821.0	818.8	816.5	818.8	821.0	821.5	821.7	822.0	822.1	826.7	836.1
172.5°	822.0	821.4	821.0	821.4	822.0	822.1	822.1	822.1	822.1	825.7	833.2
175°	827.1	827.1	827.1	827.1	827.1	827.1	825.4	823.1	822.1	824.4	829.1
177.5°	827.1	827.1	827.1	827.1	827.1	827.1	825.7	824.0	823.1	825.0	828.7
180°	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1



TEST NUMBER: P934666

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1224.9	1221.3	1226.1	1212.9	1226.1	1221.3	1224.9	1233.3	1226.1	1230.9	1235.7
5°	1074.8	1068.8	1049.6	1034.0	1049.6	1068.8	1074.8	1100.0	1112.0	1133.6	1162.5
7.5°	960.7	955.9	951.1	941.5	951.1	955.9	960.7	967.9	979.9	999.2	1020.7
10°	935.5	936.7	943.9	942.7	943.9	936.7	935.5	933.1	929.5	933.1	946.3
12.5°	1000.3	1011.2	1050.7	1048.4	1050.7	1011.2	1000.3	952.3	919.8	913.8	916.3
15°	1074.8	1078.4	1086.8	1088.0	1086.8	1078.4	1074.8	1055.6	958.3	916.3	903.1
17.5°	1082.0	1083.2	1089.2	1089.2	1089.2	1083.2	1082.0	1073.6	1041.2	984.8	910.3
20°	1076.0	1078.4	1090.4	1092.8	1090.4	1078.4	1076.0	1065.2	1047.2	1026.7	970.3
22.5°	1073.6	1078.4	1088.0	1086.8	1088.0	1078.4	1073.6	1056.7	1041.2	1026.7	1003.9
25°	1061.6	1061.6	1062.8	1064.0	1062.8	1061.6	1061.6	1048.4	1017.2	1013.6	1000.3
27.5°	1036.3	1038.7	1046.0	1044.7	1046.0	1038.7	1036.3	1031.6	997.9	994.3	984.8
30°	1013.6	1011.2	1005.2	1000.3	1005.2	1011.2	1013.6	1006.3	972.8	963.1	965.5
32.5°	975.1	969.1	963.1	959.5	963.1	969.1	975.1	972.8	947.5	934.3	936.7
35°	929.5	930.7	929.5	925.8	929.5	930.7	929.5	931.9	916.3	904.3	903.1
37.5°	897.1	899.4	898.3	893.4	898.3	899.4	897.1	894.7	873.0	869.4	871.9
40°	863.4	864.6	863.4	859.9	863.4	864.6	863.4	858.6	828.6	829.8	838.2
42.5°	831.0	829.8	826.2	823.8	826.2	829.8	831.0	823.8	785.4	781.8	797.4
45°	793.8	794.9	787.8	784.2	787.8	794.9	793.8	788.9	749.4	739.7	750.5
47.5°	756.5	756.5	750.5	747.0	750.5	756.5	756.5	750.5	708.5	698.9	704.9
50°	717.0	715.7	707.3	706.1	707.3	715.7	717.0	713.3	668.9	660.5	660.5
52.5°	671.3	671.3	672.5	674.9	672.5	671.3	671.3	672.5	632.9	624.5	622.1
55°	631.6	632.9	641.3	643.6	641.3	632.9	631.6	631.6	595.7	587.2	582.4
57.5°	590.8	590.8	596.8	596.8	596.8	590.8	590.8	588.4	553.6	546.4	544.0
60°	544.0	546.4	551.2	550.0	551.2	546.4	544.0	541.6	511.6	506.7	498.3
62.5°	494.7	497.2	498.3	496.0	498.3	497.2	494.7	487.6	469.6	465.9	455.2
65°	443.1	445.5	446.8	444.3	446.8	445.5	443.1	439.5	426.3	420.3	410.7
67.5°	390.3	389.1	387.8	392.7	387.8	389.1	390.3	385.5	377.1	372.3	359.1
70°	336.3	336.3	335.0	337.4	335.0	336.3	336.3	332.6	327.9	324.3	312.2
72.5°	278.6	277.4	282.2	278.6	282.2	277.4	278.6	277.4	275.0	271.4	259.4
75°	222.1	224.5	222.1	225.8	222.1	224.5	222.1	223.4	222.1	219.8	211.4
77.5°	169.3	171.7	169.3	169.3	169.3	171.7	169.3	170.6	170.6	170.6	163.3
80°	120.1	118.9	118.9	117.6	118.9	118.9	120.1	120.1	121.3	118.9	116.5
82.5°	76.8	75.7	75.7	78.1	75.7	75.7	76.8	78.1	75.7	75.7	75.7
85°	42.0	43.2	40.8	40.8	40.8	43.2	42.0	39.7	42.0	42.0	40.8
87.5°	15.6	14.4	14.4	14.4	14.4	14.4	15.6	16.8	16.8	16.8	18.0
90°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	28.1	37.5	42.2	36.3
92.5°	105.5	101.3	84.5	67.7	84.5	101.3	105.5	149.5	208.2	237.6	208.6
95°	358.0	345.3	294.6	243.7	294.6	345.3	358.0	470.1	619.6	694.4	586.4
97.5°	826.6	802.4	705.6	608.9	705.6	802.4	826.6	897.4	991.8	1039.1	859.1
100°	1160.7	1131.9	1016.7	901.5	1016.7	1131.9	1160.7	1155.5	1148.6	1145.1	945.4
102.5°	1446.0	1421.3	1322.6	1224.0	1322.6	1421.3	1446.0	1355.7	1235.3	1175.1	972.6
105°	1779.0	1765.7	1712.6	1659.6	1712.6	1765.7	1779.0	1576.6	1306.7	1171.8	975.6
107.5°	1952.2	1955.5	1968.3	1981.1	1968.3	1955.5	1952.2	1669.8	1293.4	1105.2	932.2
110°	1996.6	2010.4	2065.8	2121.0	2065.8	2010.4	1996.6	1680.9	1260.1	1049.7	893.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1968.3	1989.6	2074.3	2159.2	2074.3	1989.6	1968.3	1645.3	1214.6	999.2	860.1
115°	1872.3	1901.7	2019.4	2137.0	2019.4	1901.7	1872.3	1561.1	1146.1	938.6	821.5
117.5°	1739.6	1772.2	1902.7	2033.3	1902.7	1772.2	1739.6	1458.7	1084.2	897.0	797.5
120°	1650.2	1681.9	1808.8	1935.6	1808.8	1681.9	1650.2	1393.6	1051.5	880.4	789.3
122.5°	1560.9	1592.1	1717.2	1842.3	1717.2	1592.1	1560.9	1329.8	1021.6	867.6	785.0
125°	1442.6	1471.4	1586.7	1701.9	1586.7	1471.4	1442.6	1246.3	984.6	853.7	781.5
127.5°	1347.7	1372.0	1469.2	1566.4	1469.2	1372.0	1347.7	1179.1	954.4	842.0	779.5
130°	1287.8	1310.3	1400.0	1489.8	1400.0	1310.3	1287.8	1137.8	937.7	837.7	780.8
132.5°	1236.7	1256.8	1337.2	1417.6	1337.2	1256.8	1236.7	1102.4	923.2	833.7	781.5
135°	1164.5	1181.9	1251.2	1320.5	1251.2	1181.9	1164.5	1052.1	902.1	827.1	780.8
137.5°	1111.3	1125.4	1182.2	1238.9	1182.2	1125.4	1111.3	1016.2	889.3	825.9	785.6
140°	1068.6	1081.8	1134.9	1187.9	1134.9	1081.8	1068.6	986.4	876.9	822.1	786.4
142.5°	1038.6	1049.9	1095.6	1141.3	1095.6	1049.9	1038.6	966.4	870.2	822.1	789.3
145°	993.6	1002.2	1036.8	1071.3	1036.8	1002.2	993.6	934.6	855.9	816.5	789.3
147.5°	955.8	963.0	991.6	1020.2	991.6	963.0	955.8	909.4	847.5	816.5	794.7
150°	934.2	940.0	963.2	986.4	963.2	940.0	934.2	895.0	842.7	816.5	797.5
152.5°	917.0	921.4	938.8	956.4	938.8	921.4	917.0	883.5	838.8	816.5	799.3
155°	896.5	899.3	911.0	922.5	911.0	899.3	896.5	869.8	834.3	816.5	803.5
157.5°	878.7	880.7	888.9	897.0	888.9	880.7	878.7	858.0	830.3	816.5	807.5
160°	869.8	871.0	875.7	880.4	875.7	871.0	869.8	852.1	828.3	816.5	809.4
162.5°	861.5	862.5	867.0	871.5	867.0	862.5	861.5	846.5	826.6	816.5	811.3
165°	848.8	849.9	854.6	859.2	854.6	849.9	848.8	838.0	823.7	816.5	814.2
167.5°	843.2	843.7	845.6	847.6	845.6	843.7	843.2	836.1	826.7	822.1	820.1
170°	843.2	843.2	843.2	843.2	843.2	843.2	843.2	836.1	826.7	822.1	822.0
172.5°	838.7	838.3	836.6	834.9	836.6	838.3	838.7	833.2	825.7	822.1	822.1
175°	832.6	832.6	832.6	832.6	832.6	832.6	832.6	829.1	824.4	822.1	823.1
177.5°	831.5	831.0	829.1	827.1	829.1	831.0	831.5	828.7	825.0	823.1	824.0
180°	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1253.7	1259.7	1263.4	1268.1	1280.1
5°	1205.7	1228.5	1235.7	1253.7	1275.4
7.5°	1100.0	1169.6	1188.9	1232.1	1265.7
10°	997.9	1067.6	1101.2	1203.3	1253.7
12.5°	946.3	987.2	1009.9	1152.9	1236.9
15°	913.8	942.7	959.5	1085.6	1217.7
17.5°	888.7	909.1	921.1	1019.6	1191.3
20°	873.0	882.7	893.4	971.5	1161.2
22.5°	862.3	856.3	864.6	937.9	1120.4
25°	855.0	832.2	841.9	911.5	1072.4
27.5°	861.0	810.6	814.2	887.4	1022.0
30°	862.3	784.2	785.4	862.3	965.5
32.5°	853.9	756.5	757.8	831.0	901.8
35°	833.4	724.1	723.0	794.9	815.4
37.5°	805.8	689.3	689.3	755.4	720.5
40°	772.2	654.5	658.1	703.7	636.5
42.5°	731.4	617.2	622.1	635.3	574.0
45°	686.9	581.2	584.8	536.8	526.0
47.5°	637.6	544.0	545.2	445.5	510.4
50°	578.8	505.6	500.7	381.9	509.2
52.5°	527.2	463.5	449.1	345.9	462.3
55°	476.8	419.1	387.8	318.2	428.7
57.5°	432.3	361.4	331.4	285.8	421.5
60°	391.5	305.0	282.2	251.0	386.7
62.5°	357.9	263.0	258.2	227.0	350.7
65°	321.9	234.2	233.0	206.5	297.8
67.5°	287.0	215.0	213.8	187.3	227.0
70°	249.8	194.6	192.1	166.9	168.1
72.5°	211.4	171.7	169.3	150.1	139.3
75°	172.9	145.3	144.1	130.9	112.9
77.5°	135.7	115.3	117.6	105.6	82.9
80°	97.2	84.1	86.5	75.7	62.4
82.5°	64.8	55.2	57.7	48.1	42.0
85°	36.0	31.2	32.4	25.2	19.2
87.5°	16.8	14.4	14.4	9.6	6.0
90°	24.4	15.6	14.5	10.0	5.6
92.5°	150.7	107.2	97.8	60.0	22.2
95°	370.6	208.7	191.4	122.4	53.3
97.5°	499.2	229.3	214.1	153.1	92.1
100°	546.1	246.5	232.7	177.4	122.1
102.5°	567.4	263.7	250.8	199.2	147.6
105°	583.4	289.2	278.3	234.7	191.0
107.5°	586.3	327.0	316.8	276.1	235.4
110°	581.9	348.0	338.8	302.1	265.4



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CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	582.0	373.5	364.8	329.7	294.7
115°	587.4	411.8	403.8	371.5	339.1
117.5°	598.4	449.1	441.7	412.4	383.0
120°	607.2	470.7	463.8	436.1	408.5
122.5°	620.0	496.3	489.3	461.4	433.5
125°	637.2	529.0	522.6	497.3	471.8
127.5°	654.5	560.6	554.2	528.6	502.9
130°	667.0	581.7	574.8	547.1	519.5
132.5°	677.2	599.0	592.1	564.4	536.7
135°	688.3	618.9	612.7	587.4	562.3
137.5°	705.0	644.4	638.2	613.3	588.4
140°	715.1	661.6	655.9	633.0	610.1
142.5°	723.7	674.4	669.2	647.9	626.7
145°	734.8	693.9	689.2	670.8	652.2
147.5°	751.1	718.3	713.8	695.7	677.8
150°	759.5	731.0	727.0	710.7	694.4
152.5°	765.0	739.3	736.3	723.9	711.6
155°	777.3	757.7	755.4	746.2	737.1
157.5°	789.5	776.0	773.7	764.9	756.0
160°	795.0	784.3	782.6	775.7	768.8
162.5°	801.0	793.2	791.9	786.7	781.5
165°	809.5	806.0	804.8	800.1	795.4
167.5°	816.2	813.2	812.7	810.4	808.2
170°	821.7	821.5	821.0	818.8	816.5
172.5°	822.1	822.1	822.0	821.4	821.0
175°	825.4	827.1	827.1	827.1	827.1
177.5°	825.7	827.1	827.1	827.1	827.1
180°	827.1	827.1	827.1	827.1	827.1



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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	9.75	10.51	10.80	11.57	13.00	12.59	13.35	13.64	14.41	15.84
	3H	10.22	10.90	11.28	11.97	13.42	13.93	14.61	14.99	15.68	17.13
	4H	10.41	11.06	11.48	12.12	13.58	14.37	15.02	15.45	16.09	17.54
	6H	10.52	11.12	11.60	12.19	13.66	14.65	15.25	15.74	16.32	17.79
	8H	10.52	11.09	11.61	12.17	13.64	14.73	15.29	15.81	16.38	17.84
	12H	10.49	11.03	11.58	12.11	13.59	14.76	15.30	15.85	16.38	17.87
4H	2H	10.77	11.42	11.85	12.49	13.95	12.99	13.63	14.07	14.70	16.16
	3H	11.79	12.33	12.88	13.43	14.90	14.48	15.02	15.57	16.12	17.59
	4H	12.06	12.56	13.16	13.64	15.14	15.01	15.51	16.10	16.59	18.08
	6H	12.18	12.61	13.28	13.72	15.20	15.37	15.80	16.47	16.91	18.39
	8H	12.19	12.58	13.29	13.68	15.18	15.48	15.87	16.58	16.98	18.48
	12H	12.15	12.51	13.27	13.62	15.13	15.53	15.89	16.65	17.00	18.51
8H	4H	12.51	12.91	13.61	14.01	15.51	15.13	15.52	16.23	16.62	18.13
	6H	12.77	13.10	13.89	14.24	15.74	15.56	15.89	16.69	17.03	18.53
	8H	12.81	13.10	13.94	14.22	15.74	15.71	16.00	16.84	17.12	18.64
	12H	12.79	13.04	13.92	14.16	15.72	15.81	16.06	16.94	17.18	18.74
12H	4H	12.51	12.87	13.63	13.98	15.49	15.09	15.45	16.21	16.56	18.07
	6H	12.83	13.12	13.96	14.24	15.76	15.56	15.84	16.69	16.97	18.49
	8H	12.89	13.14	14.02	14.26	15.82	15.72	15.97	16.85	17.09	18.64