

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: P934247

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934247
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

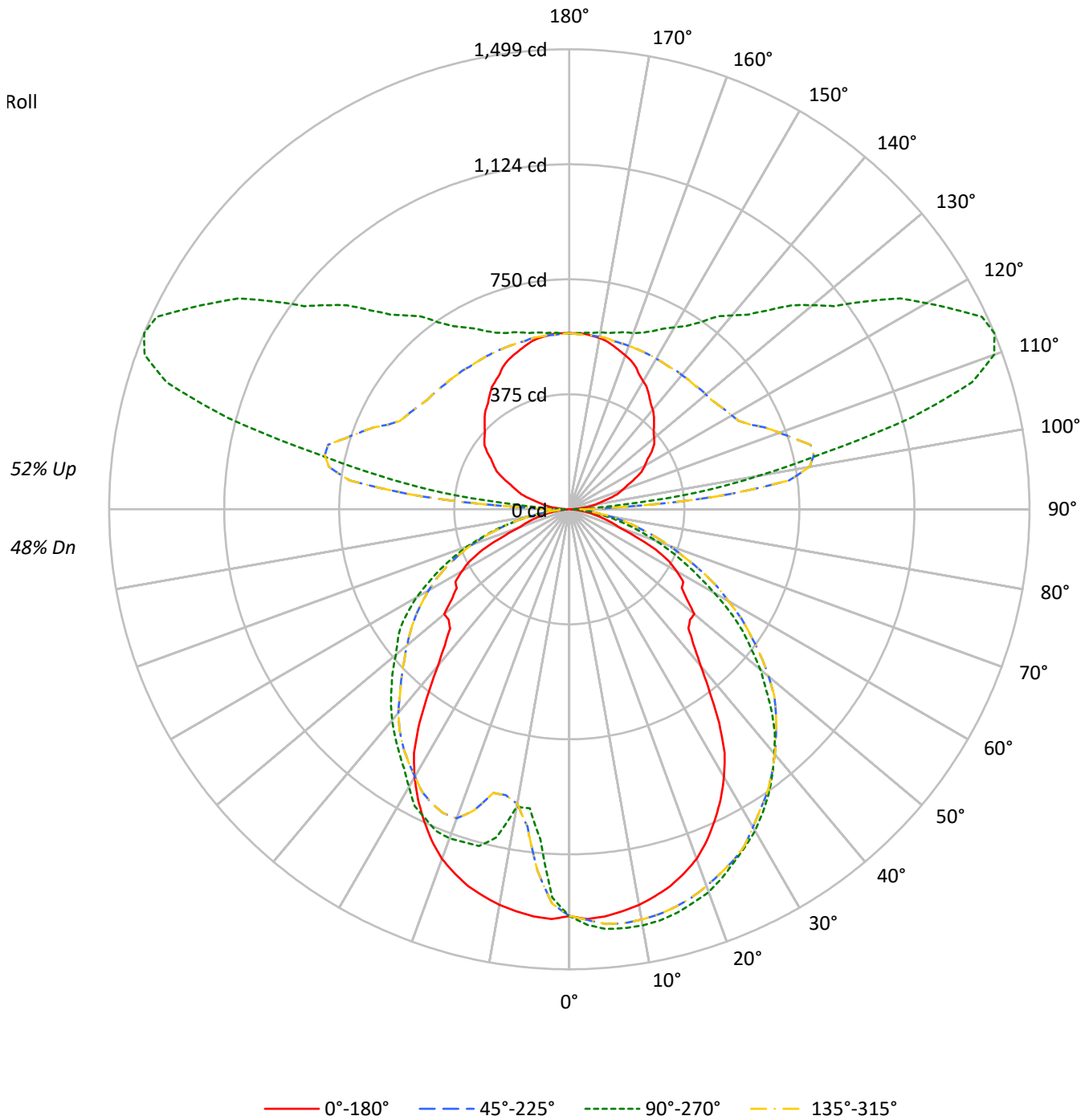
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7159.8 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 56.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6148	6148	6148	6148
5°	6194	6206	6194	4880
10°	6153	6114	6153	4371
15°	6086	5981	6086	4995
20°	5958	5824	5958	5005
25°	5698	5596	5698	4899
30°	5362	5406	5362	4666
35°	4779	5165	4779	4410
40°	3983	4882	3983	4217
45°	3558	4551	3558	3994
50°	3781	4156	3781	3771
55°	3556	3730	3556	3642
60°	3667	3168	3667	3336
65°	3324	2619	3324	2928
70°	2302	2088	2302	2454
75°	2019	1543	2019	1848
80°	1624	1020	1624	1110
85°	936	541	936	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5454 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	1.7
10°-20°	339.6	4.7
20°-30°	525.0	7.3
30°-40°	626.8	8.8
40°-50°	630.4	8.8
50°-60°	548.5	7.7
60°-70°	388.9	5.4
70°-80°	205.8	2.9
80°-90°	53.4	0.7
90°-100°	279.8	3.9
100°-110°	735.7	10.3
110°-120°	762.9	10.7
120°-130°	611.9	8.5
130°-140°	480.1	6.7
140°-150°	368.5	5.1
150°-160°	265.4	3.7
160°-170°	162.4	2.3
170°-180°	54.9	0.8
0°-30°	984.3	13.7
0°-40°	1611.0	22.5
0°-60°	2790.0	39.0
0°-90°	3438.2	48.0
90°-120°	1778.5	24.8
90°-150°	3239.0	45.2
90°-180°	3722.0	52.0
0°-180°	7159.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1325	1325	1325	1325	1325	
5°	1332	1373	1332	1080	1332	126
15°	1271	1360	1271	1136	1271	358
25°	1120	1269	1120	1111	1120	514
35°	851	1132	851	967	851	527
45°	549	933	549	819	549	440
55°	448	688	448	672	448	411
65°	311	415	311	464	311	297
75°	118	197	118	236	118	124
85°	20	50	20	43	20	27
90°	4	15	4	15	4	4
95°	37	169	37	169	37	41
105°	132	1152	132	1152	132	141
115°	236	1483	236	1483	236	233
125°	328	1181	328	1181	328	291
135°	390	917	390	917	390	302
145°	453	744	453	744	453	284
155°	512	640	512	640	512	235
165°	552	596	552	596	552	156
175°	574	578	574	578	574	54
180°	574	574	574	574	574	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1336.4	1336.4	1344.0	1346.5	1346.5	1342.7	1339.0	1342.7	1354.0	1357.8	1356.5
5°	1331.5	1341.5	1355.3	1357.8	1360.3	1359.1	1356.5	1359.1	1371.6	1374.1	1375.3
7.5°	1321.4	1340.3	1357.8	1361.6	1365.3	1361.6	1360.3	1362.8	1375.3	1377.9	1377.9
10°	1308.9	1335.2	1355.3	1357.8	1361.6	1357.8	1357.8	1362.8	1375.3	1377.9	1379.1
12.5°	1291.3	1327.7	1346.5	1349.0	1354.0	1352.8	1351.5	1356.5	1369.1	1371.6	1371.6
15°	1271.3	1313.9	1331.5	1333.9	1342.7	1340.3	1340.3	1345.2	1359.1	1362.8	1361.6
17.5°	1243.7	1296.3	1316.4	1320.2	1326.4	1325.2	1326.4	1331.5	1344.0	1346.5	1347.8
20°	1212.3	1272.5	1296.3	1300.1	1306.3	1306.3	1306.3	1312.6	1325.2	1330.2	1330.2
22.5°	1169.7	1247.5	1272.5	1275.0	1282.6	1282.6	1285.0	1293.8	1305.1	1306.3	1306.3
25°	1119.6	1219.9	1241.2	1248.7	1256.2	1260.0	1263.7	1268.8	1272.5	1271.3	1272.5
27.5°	1067.0	1184.7	1212.3	1217.4	1227.4	1231.2	1236.1	1237.5	1238.7	1242.4	1240.0
30°	1008.0	1135.9	1177.3	1182.3	1198.6	1201.1	1196.0	1198.6	1204.8	1207.4	1209.9
32.5°	941.5	1063.1	1140.9	1152.2	1167.3	1159.7	1158.5	1162.2	1172.2	1172.2	1174.7
35°	851.2	1006.8	1107.1	1117.1	1128.4	1119.6	1124.6	1125.9	1132.1	1135.9	1134.6
37.5°	752.3	957.9	1071.9	1079.5	1088.3	1077.0	1084.4	1088.3	1093.2	1090.7	1090.7
40°	664.5	881.3	1030.6	1035.6	1043.1	1034.3	1041.8	1044.3	1046.9	1044.3	1043.1
42.5°	599.2	797.4	986.7	992.9	987.9	994.2	996.7	1001.7	998.0	992.9	992.9
45°	549.1	774.8	939.0	946.6	939.0	949.1	952.8	952.8	941.5	939.0	937.8
47.5°	532.9	729.6	891.4	891.4	887.6	900.2	906.5	897.7	886.4	882.6	882.6
50°	531.6	679.5	826.2	821.2	838.7	853.8	847.5	838.7	829.9	816.2	816.2
52.5°	482.7	618.1	742.3	761.0	788.6	797.4	787.3	778.6	763.6	757.2	752.3
55°	447.5	554.2	665.7	703.4	732.2	743.5	724.7	715.9	693.3	689.5	687.0
57.5°	440.1	461.4	595.5	643.2	678.2	677.0	665.7	649.4	630.6	626.9	625.6
60°	403.7	333.5	520.3	576.7	613.1	609.3	599.2	584.2	566.7	564.2	561.7
62.5°	366.1	242.0	435.0	498.9	550.4	549.1	540.4	517.8	505.2	498.9	494.0
65°	310.9	203.1	309.7	415.0	488.9	491.5	472.7	456.3	442.6	435.0	433.8
67.5°	236.9	165.5	209.4	346.0	430.1	427.5	403.7	396.2	378.6	374.9	367.3
70°	175.5	110.3	145.4	280.9	372.4	366.1	347.2	338.6	322.2	313.4	308.5
72.5°	145.4	89.0	106.6	218.2	313.4	305.9	289.6	279.6	265.8	258.3	253.2
75°	117.9	94.0	81.5	161.7	254.5	249.5	234.4	224.4	213.1	203.1	204.3
77.5°	86.6	87.8	65.1	119.1	201.9	194.3	185.5	173.0	168.0	158.0	158.0
80°	65.1	69.0	48.9	81.5	145.4	145.4	137.9	129.2	120.4	115.3	115.3
82.5°	43.8	43.8	36.4	51.4	99.1	95.2	90.3	87.8	82.7	80.2	80.2
85°	20.1	25.1	22.5	31.3	53.9	56.5	56.5	53.9	52.6	50.2	51.4
87.5°	6.3	11.3	13.8	17.6	27.6	28.9	30.1	30.1	30.1	31.3	31.3
90°	3.8	6.9	10.0	10.7	16.9	25.1	29.3	26.0	19.5	14.7	14.7
92.5°	15.4	41.6	67.9	74.4	104.6	144.8	164.9	144.5	103.8	73.2	70.3
95°	37.0	85.0	132.9	144.9	257.2	407.1	482.0	430.2	326.4	248.5	239.8
97.5°	63.9	106.2	148.5	159.1	346.5	596.3	721.3	688.5	622.9	573.7	556.9
100°	84.8	123.1	161.4	171.1	379.0	656.3	794.9	797.3	802.1	805.6	785.6
102.5°	102.5	138.3	174.0	183.0	393.9	675.1	815.7	857.5	941.1	1003.7	986.6
105°	132.5	162.8	193.2	200.8	405.0	677.3	813.4	907.0	1094.4	1234.9	1225.7
107.5°	163.4	191.6	219.8	226.9	407.0	647.1	767.1	897.8	1159.1	1355.1	1357.4
110°	184.1	209.7	235.3	241.6	404.0	620.4	728.6	874.7	1166.8	1385.9	1395.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	204.6	228.9	253.2	259.3	404.1	597.1	693.6	843.0	1142.0	1366.3	1381.0
115°	235.5	257.9	280.3	285.9	407.8	570.4	651.6	795.6	1083.6	1299.6	1320.0
117.5°	265.8	286.2	306.6	311.7	415.4	553.5	622.6	752.6	1012.6	1207.5	1230.2
120°	283.6	302.8	322.0	326.8	421.6	547.9	611.1	729.8	967.3	1145.5	1167.4
122.5°	300.9	320.2	339.6	344.4	430.3	544.9	602.2	709.2	923.1	1083.5	1105.2
125°	327.5	345.1	362.8	367.2	442.3	542.5	592.6	683.5	865.2	1001.4	1021.4
127.5°	349.1	366.9	384.6	389.1	454.3	541.1	584.5	662.5	818.5	935.5	952.4
130°	360.6	379.8	399.0	403.8	463.0	541.9	581.4	650.8	789.7	893.9	909.5
132.5°	372.6	391.7	411.0	415.8	470.1	542.5	578.8	640.9	765.2	858.4	872.4
135°	390.3	407.8	425.2	429.6	477.7	541.9	574.1	626.2	730.3	808.3	820.4
137.5°	408.5	425.8	443.1	447.4	489.3	545.3	573.3	617.4	705.4	771.4	781.2
140°	423.4	439.4	455.3	459.3	496.4	545.9	570.6	608.7	684.7	741.7	750.8
142.5°	435.0	449.7	464.5	468.1	502.3	547.8	570.6	604.0	670.8	720.9	728.9
145°	452.8	465.6	478.5	481.7	510.1	547.9	566.8	594.1	648.8	689.7	695.7
147.5°	470.4	483.0	495.5	498.6	521.3	551.7	566.8	588.3	631.2	663.5	668.4
150°	482.0	493.3	504.6	507.5	527.3	553.6	566.8	584.9	621.3	648.5	652.5
152.5°	494.0	502.6	511.1	513.2	531.1	554.9	566.8	582.3	613.3	636.5	639.6
155°	511.7	518.0	524.4	526.0	539.6	557.7	566.8	579.1	603.7	622.2	624.3
157.5°	524.7	530.9	537.1	538.7	548.0	560.5	566.8	576.3	595.5	609.9	611.3
160°	533.6	538.5	543.3	544.5	551.9	561.9	566.8	575.0	591.4	603.7	604.6
162.5°	542.5	546.1	549.7	550.6	556.1	563.3	566.8	573.7	587.6	598.0	598.8
165°	552.1	555.4	558.6	559.4	561.9	565.1	566.8	571.8	581.7	589.1	590.0
167.5°	561.0	562.5	564.1	564.5	566.5	569.2	570.6	573.9	580.5	585.3	585.7
170°	566.8	568.3	569.9	570.3	570.4	570.5	570.6	573.9	580.5	585.3	585.3
172.5°	569.9	570.3	570.5	570.6	570.6	570.6	570.6	573.3	578.4	582.2	581.9
175°	574.1	574.1	574.1	574.1	573.0	571.4	570.6	572.2	575.5	577.9	577.9
177.5°	574.1	574.1	574.1	574.1	573.2	571.9	571.4	572.7	575.2	577.2	576.8
180°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1359.1	1355.3	1359.1	1356.5	1357.8	1354.0	1342.7	1339.0	1342.7	1346.5	1346.5
5°	1375.3	1372.8	1375.3	1375.3	1374.1	1371.6	1359.1	1356.5	1359.1	1360.3	1357.8
7.5°	1380.4	1376.6	1380.4	1377.9	1377.9	1375.3	1362.8	1360.3	1361.6	1365.3	1361.6
10°	1380.4	1376.6	1380.4	1379.1	1377.9	1375.3	1362.8	1357.8	1357.8	1361.6	1357.8
12.5°	1374.1	1371.6	1374.1	1371.6	1371.6	1369.1	1356.5	1351.5	1352.8	1354.0	1349.0
15°	1364.0	1360.3	1364.0	1361.6	1362.8	1359.1	1345.2	1340.3	1340.3	1342.7	1333.9
17.5°	1349.0	1344.0	1349.0	1347.8	1346.5	1344.0	1331.5	1326.4	1325.2	1326.4	1320.2
20°	1331.5	1327.7	1331.5	1330.2	1330.2	1325.2	1312.6	1306.3	1306.3	1306.3	1300.1
22.5°	1303.9	1300.1	1303.9	1306.3	1306.3	1305.1	1293.8	1285.0	1282.6	1282.6	1275.0
25°	1272.5	1268.8	1272.5	1272.5	1271.3	1272.5	1268.8	1263.7	1260.0	1256.2	1248.7
27.5°	1242.4	1240.0	1242.4	1240.0	1242.4	1238.7	1237.5	1236.1	1231.2	1227.4	1217.4
30°	1212.3	1209.9	1212.3	1209.9	1207.4	1204.8	1198.6	1196.0	1201.1	1198.6	1182.3
32.5°	1174.7	1172.2	1174.7	1174.7	1172.2	1172.2	1162.2	1158.5	1159.7	1167.3	1152.2
35°	1135.9	1132.1	1135.9	1134.6	1135.9	1132.1	1125.9	1124.6	1119.6	1128.4	1117.1
37.5°	1090.7	1087.0	1090.7	1090.7	1090.7	1093.2	1088.3	1084.4	1077.0	1088.3	1079.5
40°	1044.3	1039.3	1044.3	1043.1	1044.3	1046.9	1044.3	1041.8	1034.3	1043.1	1035.6
42.5°	991.7	990.4	991.7	992.9	992.9	998.0	1001.7	996.7	994.2	987.9	992.9
45°	935.3	932.7	935.3	937.8	939.0	941.5	952.8	952.8	949.1	939.0	946.6
47.5°	875.1	868.8	875.1	882.6	882.6	886.4	897.7	906.5	900.2	887.6	891.4
50°	811.1	812.4	811.1	816.2	816.2	829.9	838.7	847.5	853.8	838.7	821.2
52.5°	748.5	747.2	748.5	752.3	757.2	763.6	778.6	787.3	797.4	788.6	761.0
55°	685.8	688.3	685.8	687.0	689.5	693.3	715.9	724.7	743.5	732.2	703.4
57.5°	623.1	619.3	623.1	625.6	626.9	630.6	649.4	665.7	677.0	678.2	643.2
60°	550.4	545.4	550.4	561.7	564.2	566.7	584.2	599.2	609.3	613.1	576.7
62.5°	486.4	477.6	486.4	494.0	498.9	505.2	517.8	540.4	549.1	550.4	498.9
65°	418.7	415.0	418.7	433.8	435.0	442.6	456.3	472.7	491.5	488.9	415.0
67.5°	357.3	357.3	357.3	367.3	374.9	378.6	396.2	403.7	427.5	430.1	346.0
70°	300.9	299.7	300.9	308.5	313.4	322.2	338.6	347.2	366.1	372.4	280.9
72.5°	246.9	245.7	246.9	253.2	258.3	265.8	279.6	289.6	305.9	313.4	218.2
75°	199.4	196.8	199.4	204.3	203.1	213.1	224.4	234.4	249.5	254.5	161.7
77.5°	152.9	152.9	152.9	158.0	158.0	168.0	173.0	185.5	194.3	201.9	119.1
80°	114.1	112.8	114.1	115.3	115.3	120.4	129.2	137.9	145.4	145.4	81.5
82.5°	80.2	77.8	80.2	80.2	80.2	82.7	87.8	90.3	95.2	99.1	51.4
85°	50.2	50.2	50.2	51.4	50.2	52.6	53.9	56.5	56.5	53.9	31.3
87.5°	32.6	31.3	32.6	31.3	31.3	30.1	30.1	30.1	28.9	27.6	17.6
90°	14.7	14.7	14.7	14.7	14.7	19.5	26.0	29.3	25.1	16.9	10.7
92.5°	58.6	47.0	58.6	70.3	73.2	103.8	144.5	164.9	144.8	104.6	74.4
95°	204.4	169.2	204.4	239.8	248.5	326.4	430.2	482.0	407.1	257.2	144.9
97.5°	489.8	422.7	489.8	556.9	573.7	622.9	688.5	721.3	596.3	346.5	159.1
100°	705.7	625.7	705.7	785.6	805.6	802.1	797.3	794.9	656.3	379.0	171.1
102.5°	918.1	849.6	918.1	986.6	1003.7	941.1	857.5	815.7	675.1	393.9	183.0
105°	1188.9	1152.0	1188.9	1225.7	1234.9	1094.4	907.0	813.4	677.3	405.0	200.8
107.5°	1366.3	1375.1	1366.3	1357.4	1355.1	1159.1	897.8	767.1	647.1	407.0	226.9
110°	1433.8	1472.3	1433.8	1395.5	1385.9	1166.8	874.7	728.6	620.4	404.0	241.6



TEST NUMBER: P934247

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1439.9	1498.8	1439.9	1381.0	1366.3	1142.0	843.0	693.6	597.1	404.1	259.3
115°	1401.7	1483.4	1401.7	1320.0	1299.6	1083.6	795.6	651.6	570.4	407.8	285.9
117.5°	1320.8	1411.4	1320.8	1230.2	1207.5	1012.6	752.6	622.6	553.5	415.4	311.7
120°	1255.5	1343.5	1255.5	1167.4	1145.5	967.3	729.8	611.1	547.9	421.6	326.8
122.5°	1192.0	1278.9	1192.0	1105.2	1083.5	923.1	709.2	602.2	544.9	430.3	344.4
125°	1101.4	1181.4	1101.4	1021.4	1001.4	865.2	683.5	592.6	542.5	442.3	367.2
127.5°	1019.9	1087.3	1019.9	952.4	935.5	818.5	662.5	584.5	541.1	454.3	389.1
130°	971.8	1034.2	971.8	909.5	893.9	789.7	650.8	581.4	541.9	463.0	403.8
132.5°	928.3	984.1	928.3	872.4	858.4	765.2	640.9	578.8	542.5	470.1	415.8
135°	868.5	916.7	868.5	820.4	808.3	730.3	626.2	574.1	541.9	477.7	429.6
137.5°	820.7	860.0	820.7	781.2	771.4	705.4	617.4	573.3	545.3	489.3	447.4
140°	787.7	824.5	787.7	750.8	741.7	684.7	608.7	570.6	545.9	496.4	459.3
142.5°	760.5	792.2	760.5	728.9	720.9	670.8	604.0	570.6	547.8	502.3	468.1
145°	719.7	743.7	719.7	695.7	689.7	648.8	594.1	566.8	547.9	510.1	481.7
147.5°	688.3	708.2	688.3	668.4	663.5	631.2	588.3	566.8	551.7	521.3	498.6
150°	668.6	684.7	668.6	652.5	648.5	621.3	584.9	566.8	553.6	527.3	507.5
152.5°	651.8	663.9	651.8	639.6	636.5	613.3	582.3	566.8	554.9	531.1	513.2
155°	632.3	640.4	632.3	624.3	622.2	603.7	579.1	566.8	557.7	539.6	526.0
157.5°	617.0	622.6	617.0	611.3	609.9	595.5	576.3	566.8	560.5	548.0	538.7
160°	607.8	611.1	607.8	604.6	603.7	591.4	575.0	566.8	561.9	551.9	544.5
162.5°	601.9	604.9	601.9	598.8	598.0	587.6	573.7	566.8	563.3	556.1	550.6
165°	593.2	596.4	593.2	590.0	589.1	581.7	571.8	566.8	565.1	561.9	559.4
167.5°	587.0	588.4	587.0	585.7	585.3	580.5	573.9	570.6	569.2	566.5	564.5
170°	585.3	585.3	585.3	585.3	585.3	580.5	573.9	570.6	570.5	570.4	570.3
172.5°	580.7	579.5	580.7	581.9	582.2	578.4	573.3	570.6	570.6	570.6	570.6
175°	577.9	577.9	577.9	577.9	577.9	575.5	572.2	570.6	571.4	573.0	574.1
177.5°	575.5	574.1	575.5	576.8	577.2	575.2	572.7	571.4	571.9	573.2	574.1
180°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1



TEST NUMBER: P934247

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1344.0	1336.4	1336.4	1323.9	1319.0	1315.1	1308.9	1290.1	1285.0	1280.1	1287.6
5°	1355.3	1341.5	1331.5	1308.9	1290.1	1282.6	1258.8	1213.6	1183.5	1160.9	1148.4
7.5°	1357.8	1340.3	1321.4	1286.3	1241.2	1221.1	1148.4	1065.7	1043.1	1023.0	1010.5
10°	1355.3	1335.2	1308.9	1256.2	1149.7	1114.5	1041.8	987.9	974.2	970.4	974.2
12.5°	1346.5	1327.7	1291.3	1203.6	1054.3	1030.6	987.9	956.6	954.1	960.3	994.2
15°	1331.5	1313.9	1271.3	1133.3	1001.7	984.2	954.1	942.8	956.6	1000.5	1102.0
17.5°	1316.4	1296.3	1243.7	1064.4	961.6	949.1	927.8	950.3	1028.1	1087.0	1120.8
20°	1296.3	1272.5	1212.3	1014.2	932.7	921.5	911.4	1013.0	1071.9	1093.2	1112.0
22.5°	1272.5	1247.5	1169.7	979.2	902.6	894.0	900.2	1048.1	1071.9	1087.0	1103.2
25°	1241.2	1219.9	1119.6	951.6	878.9	868.8	892.6	1044.3	1058.2	1061.9	1094.5
27.5°	1212.3	1184.7	1067.0	926.5	850.0	846.3	898.9	1028.1	1038.1	1041.8	1077.0
30°	1177.3	1135.9	1008.0	900.2	819.9	818.7	900.2	1008.0	1005.5	1015.6	1050.6
32.5°	1140.9	1063.1	941.5	867.6	791.1	789.8	891.4	977.9	975.4	989.2	1015.6
35°	1107.1	1006.8	851.2	829.9	754.8	756.0	870.1	942.8	944.1	956.6	972.9
37.5°	1071.9	957.9	752.3	788.6	719.6	719.6	841.2	910.2	907.7	911.4	934.1
40°	1030.6	881.3	664.5	734.7	687.0	683.3	806.2	875.1	866.3	865.1	896.4
42.5°	986.7	797.4	599.2	663.3	649.4	644.4	763.6	832.4	816.2	819.9	860.0
45°	939.0	774.8	549.1	560.4	610.5	606.8	717.1	783.6	772.3	782.3	823.7
47.5°	891.4	729.6	532.9	465.1	569.2	567.9	665.7	735.9	729.6	739.7	783.6
50°	826.2	679.5	531.6	398.7	522.8	527.8	604.3	689.5	689.5	698.3	744.7
52.5°	742.3	618.1	482.7	361.1	468.8	483.9	550.4	649.4	652.0	660.7	702.1
55°	665.7	554.2	447.5	332.2	404.9	437.5	497.7	608.0	613.1	621.9	659.4
57.5°	595.5	461.4	440.1	298.4	346.0	377.3	451.4	567.9	570.5	577.9	614.3
60°	520.3	333.5	403.7	262.0	294.6	318.5	408.7	520.3	529.0	534.1	565.4
62.5°	435.0	242.0	366.1	236.9	269.6	274.5	373.6	475.2	486.4	490.3	509.0
65°	309.7	203.1	310.9	215.6	243.2	244.5	336.0	428.7	438.8	445.1	458.8
67.5°	209.4	165.5	236.9	195.5	223.2	224.4	299.7	374.9	388.7	393.7	402.5
70°	145.4	110.3	175.5	174.2	200.6	203.1	260.8	325.9	338.6	342.3	347.2
72.5°	106.6	89.0	145.4	156.8	176.8	179.3	220.7	270.8	283.3	287.1	289.6
75°	81.5	94.0	117.9	136.7	150.5	151.7	180.5	220.7	229.5	231.9	233.2
77.5°	65.1	87.8	86.6	110.3	122.8	120.4	141.7	170.5	178.1	178.1	178.1
80°	48.9	69.0	65.1	79.0	90.3	87.8	101.5	121.6	124.1	126.7	125.3
82.5°	36.4	43.8	43.8	50.2	60.2	57.7	67.7	79.0	79.0	79.0	81.5
85°	22.5	25.1	20.1	26.4	33.8	32.6	37.6	42.6	43.8	43.8	41.4
87.5°	13.8	11.3	6.3	10.0	15.0	15.0	17.6	18.8	17.6	17.6	17.6
90°	10.0	6.9	3.8	6.9	10.0	10.7	16.9	25.1	29.3	26.0	19.5
92.5°	67.9	41.6	15.4	41.6	67.9	74.4	104.6	144.8	164.9	144.5	103.8
95°	132.9	85.0	37.0	85.0	132.9	144.9	257.2	407.1	482.0	430.2	326.4
97.5°	148.5	106.2	63.9	106.2	148.5	159.1	346.5	596.3	721.3	688.5	622.9
100°	161.4	123.1	84.8	123.1	161.4	171.1	379.0	656.3	794.9	797.3	802.1
102.5°	174.0	138.3	102.5	138.3	174.0	183.0	393.9	675.1	815.7	857.5	941.1
105°	193.2	162.8	132.5	162.8	193.2	200.8	405.0	677.3	813.4	907.0	1094.4
107.5°	219.8	191.6	163.4	191.6	219.8	226.9	407.0	647.1	767.1	897.8	1159.1
110°	235.3	209.7	184.1	209.7	235.3	241.6	404.0	620.4	728.6	874.7	1166.8



TEST NUMBER: P934247

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	253.2	228.9	204.6	228.9	253.2	259.3	404.1	597.1	693.6	843.0	1142.0
115°	280.3	257.9	235.5	257.9	280.3	285.9	407.8	570.4	651.6	795.6	1083.6
117.5°	306.6	286.2	265.8	286.2	306.6	311.7	415.4	553.5	622.6	752.6	1012.6
120°	322.0	302.8	283.6	302.8	322.0	326.8	421.6	547.9	611.1	729.8	967.3
122.5°	339.6	320.2	300.9	320.2	339.6	344.4	430.3	544.9	602.2	709.2	923.1
125°	362.8	345.1	327.5	345.1	362.8	367.2	442.3	542.5	592.6	683.5	865.2
127.5°	384.6	366.9	349.1	366.9	384.6	389.1	454.3	541.1	584.5	662.5	818.5
130°	399.0	379.8	360.6	379.8	399.0	403.8	463.0	541.9	581.4	650.8	789.7
132.5°	411.0	391.7	372.6	391.7	411.0	415.8	470.1	542.5	578.8	640.9	765.2
135°	425.2	407.8	390.3	407.8	425.2	429.6	477.7	541.9	574.1	626.2	730.3
137.5°	443.1	425.8	408.5	425.8	443.1	447.4	489.3	545.3	573.3	617.4	705.4
140°	455.3	439.4	423.4	439.4	455.3	459.3	496.4	545.9	570.6	608.7	684.7
142.5°	464.5	449.7	435.0	449.7	464.5	468.1	502.3	547.8	570.6	604.0	670.8
145°	478.5	465.6	452.8	465.6	478.5	481.7	510.1	547.9	566.8	594.1	648.8
147.5°	495.5	483.0	470.4	483.0	495.5	498.6	521.3	551.7	566.8	588.3	631.2
150°	504.6	493.3	482.0	493.3	504.6	507.5	527.3	553.6	566.8	584.9	621.3
152.5°	511.1	502.6	494.0	502.6	511.1	513.2	531.1	554.9	566.8	582.3	613.3
155°	524.4	518.0	511.7	518.0	524.4	526.0	539.6	557.7	566.8	579.1	603.7
157.5°	537.1	530.9	524.7	530.9	537.1	538.7	548.0	560.5	566.8	576.3	595.5
160°	543.3	538.5	533.6	538.5	543.3	544.5	551.9	561.9	566.8	575.0	591.4
162.5°	549.7	546.1	542.5	546.1	549.7	550.6	556.1	563.3	566.8	573.7	587.6
165°	558.6	555.4	552.1	555.4	558.6	559.4	561.9	565.1	566.8	571.8	581.7
167.5°	564.1	562.5	561.0	562.5	564.1	564.5	566.5	569.2	570.6	573.9	580.5
170°	569.9	568.3	566.8	568.3	569.9	570.3	570.4	570.5	570.6	573.9	580.5
172.5°	570.5	570.3	569.9	570.3	570.5	570.6	570.6	570.6	570.6	573.3	578.4
175°	574.1	574.1	574.1	574.1	574.1	574.1	573.0	571.4	570.6	572.2	575.5
177.5°	574.1	574.1	574.1	574.1	574.1	574.1	573.2	571.9	571.4	572.7	575.2
180°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1



TEST NUMBER: P934247

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1278.8	1275.0	1280.1	1266.2	1280.1	1275.0	1278.8	1287.6	1280.1	1285.0	1290.1
5°	1122.1	1115.9	1095.8	1079.5	1095.8	1115.9	1122.1	1148.4	1160.9	1183.5	1213.6
7.5°	1002.9	998.0	992.9	982.9	992.9	998.0	1002.9	1010.5	1023.0	1043.1	1065.7
10°	976.7	977.9	985.5	984.2	985.5	977.9	976.7	974.2	970.4	974.2	987.9
12.5°	1044.3	1055.7	1097.0	1094.5	1097.0	1055.7	1044.3	994.2	960.3	954.1	956.6
15°	1122.1	1125.9	1134.6	1135.9	1134.6	1125.9	1122.1	1102.0	1000.5	956.6	942.8
17.5°	1129.6	1130.9	1137.2	1137.2	1137.2	1130.9	1129.6	1120.8	1087.0	1028.1	950.3
20°	1123.3	1125.9	1138.4	1140.9	1138.4	1125.9	1123.3	1112.0	1093.2	1071.9	1013.0
22.5°	1120.8	1125.9	1135.9	1134.6	1135.9	1125.9	1120.8	1103.2	1087.0	1071.9	1048.1
25°	1108.3	1108.3	1109.6	1110.8	1109.6	1108.3	1108.3	1094.5	1061.9	1058.2	1044.3
27.5°	1081.9	1084.4	1092.0	1090.7	1092.0	1084.4	1081.9	1077.0	1041.8	1038.1	1028.1
30°	1058.2	1055.7	1049.4	1044.3	1049.4	1055.7	1058.2	1050.6	1015.6	1005.5	1008.0
32.5°	1018.0	1011.7	1005.5	1001.7	1005.5	1011.7	1018.0	1015.6	989.2	975.4	977.9
35°	970.4	971.6	970.4	966.6	970.4	971.6	970.4	972.9	956.6	944.1	942.8
37.5°	936.6	939.0	937.8	932.7	937.8	939.0	936.6	934.1	911.4	907.7	910.2
40°	901.4	902.6	901.4	897.7	901.4	902.6	901.4	896.4	865.1	866.3	875.1
42.5°	867.6	866.3	862.5	860.0	862.5	866.3	867.6	860.0	819.9	816.2	832.4
45°	828.7	829.9	822.4	818.7	822.4	829.9	828.7	823.7	782.3	772.3	783.6
47.5°	789.8	789.8	783.6	779.8	783.6	789.8	789.8	783.6	739.7	729.6	735.9
50°	748.5	747.2	738.4	737.2	738.4	747.2	748.5	744.7	698.3	689.5	689.5
52.5°	700.8	700.8	702.1	704.6	702.1	700.8	700.8	702.1	660.7	652.0	649.4
55°	659.4	660.7	669.5	672.0	669.5	660.7	659.4	659.4	621.9	613.1	608.0
57.5°	616.8	616.8	623.1	623.1	623.1	616.8	616.8	614.3	577.9	570.5	567.9
60°	567.9	570.5	575.5	574.2	575.5	570.5	567.9	565.4	534.1	529.0	520.3
62.5°	516.5	519.0	520.3	517.8	520.3	519.0	516.5	509.0	490.3	486.4	475.2
65°	462.6	465.1	466.4	463.9	466.4	465.1	462.6	458.8	445.1	438.8	428.7
67.5°	407.4	406.2	404.9	410.0	404.9	406.2	407.4	402.5	393.7	388.7	374.9
70°	351.1	351.1	349.8	352.3	349.8	351.1	351.1	347.2	342.3	338.6	325.9
72.5°	290.9	289.6	294.6	290.9	294.6	289.6	290.9	289.6	287.1	283.3	270.8
75°	231.9	234.4	231.9	235.7	231.9	234.4	231.9	233.2	231.9	229.5	220.7
77.5°	176.8	179.3	176.8	176.8	176.8	179.3	176.8	178.1	178.1	178.1	170.5
80°	125.3	124.1	124.1	122.8	124.1	124.1	125.3	125.3	126.7	124.1	121.6
82.5°	80.2	79.0	79.0	81.5	79.0	79.0	80.2	81.5	79.0	79.0	79.0
85°	43.8	45.1	42.6	42.6	42.6	45.1	43.8	41.4	43.8	43.8	42.6
87.5°	16.3	15.0	15.0	15.0	15.0	15.0	16.3	17.6	17.6	17.6	18.8
90°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	19.5	26.0	29.3	25.1
92.5°	73.2	70.3	58.6	47.0	58.6	70.3	73.2	103.8	144.5	164.9	144.8
95°	248.5	239.8	204.4	169.2	204.4	239.8	248.5	326.4	430.2	482.0	407.1
97.5°	573.7	556.9	489.8	422.7	489.8	556.9	573.7	622.9	688.5	721.3	596.3
100°	805.6	785.6	705.7	625.7	705.7	785.6	805.6	802.1	797.3	794.9	656.3
102.5°	1003.7	986.6	918.1	849.6	918.1	986.6	1003.7	941.1	857.5	815.7	675.1
105°	1234.9	1225.7	1188.9	1152.0	1188.9	1225.7	1234.9	1094.4	907.0	813.4	677.3
107.5°	1355.1	1357.4	1366.3	1375.1	1366.3	1357.4	1355.1	1159.1	897.8	767.1	647.1
110°	1385.9	1395.5	1433.8	1472.3	1433.8	1395.5	1385.9	1166.8	874.7	728.6	620.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1366.3	1381.0	1439.9	1498.8	1439.9	1381.0	1366.3	1142.0	843.0	693.6	597.1
115°	1299.6	1320.0	1401.7	1483.4	1401.7	1320.0	1299.6	1083.6	795.6	651.6	570.4
117.5°	1207.5	1230.2	1320.8	1411.4	1320.8	1230.2	1207.5	1012.6	752.6	622.6	553.5
120°	1145.5	1167.4	1255.5	1343.5	1255.5	1167.4	1145.5	967.3	729.8	611.1	547.9
122.5°	1083.5	1105.2	1192.0	1278.9	1192.0	1105.2	1083.5	923.1	709.2	602.2	544.9
125°	1001.4	1021.4	1101.4	1181.4	1101.4	1021.4	1001.4	865.2	683.5	592.6	542.5
127.5°	935.5	952.4	1019.9	1087.3	1019.9	952.4	935.5	818.5	662.5	584.5	541.1
130°	893.9	909.5	971.8	1034.2	971.8	909.5	893.9	789.7	650.8	581.4	541.9
132.5°	858.4	872.4	928.3	984.1	928.3	872.4	858.4	765.2	640.9	578.8	542.5
135°	808.3	820.4	868.5	916.7	868.5	820.4	808.3	730.3	626.2	574.1	541.9
137.5°	771.4	781.2	820.7	860.0	820.7	781.2	771.4	705.4	617.4	573.3	545.3
140°	741.7	750.8	787.7	824.5	787.7	750.8	741.7	684.7	608.7	570.6	545.9
142.5°	720.9	728.9	760.5	792.2	760.5	728.9	720.9	670.8	604.0	570.6	547.8
145°	689.7	695.7	719.7	743.7	719.7	695.7	689.7	648.8	594.1	566.8	547.9
147.5°	663.5	668.4	688.3	708.2	688.3	668.4	663.5	631.2	588.3	566.8	551.7
150°	648.5	652.5	668.6	684.7	668.6	652.5	648.5	621.3	584.9	566.8	553.6
152.5°	636.5	639.6	651.8	663.9	651.8	639.6	636.5	613.3	582.3	566.8	554.9
155°	622.2	624.3	632.3	640.4	632.3	624.3	622.2	603.7	579.1	566.8	557.7
157.5°	609.9	611.3	617.0	622.6	617.0	611.3	609.9	595.5	576.3	566.8	560.5
160°	603.7	604.6	607.8	611.1	607.8	604.6	603.7	591.4	575.0	566.8	561.9
162.5°	598.0	598.8	601.9	604.9	601.9	598.8	598.0	587.6	573.7	566.8	563.3
165°	589.1	590.0	593.2	596.4	593.2	590.0	589.1	581.7	571.8	566.8	565.1
167.5°	585.3	585.7	587.0	588.4	587.0	585.7	585.3	580.5	573.9	570.6	569.2
170°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	580.5	573.9	570.6	570.5
172.5°	582.2	581.9	580.7	579.5	580.7	581.9	582.2	578.4	573.3	570.6	570.6
175°	577.9	577.9	577.9	577.9	577.9	577.9	577.9	575.5	572.2	570.6	571.4
177.5°	577.2	576.8	575.5	574.1	575.5	576.8	577.2	575.2	572.7	571.4	571.9
180°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1308.9	1315.1	1319.0	1323.9	1336.4
5°	1258.8	1282.6	1290.1	1308.9	1331.5
7.5°	1148.4	1221.1	1241.2	1286.3	1321.4
10°	1041.8	1114.5	1149.7	1256.2	1308.9
12.5°	987.9	1030.6	1054.3	1203.6	1291.3
15°	954.1	984.2	1001.7	1133.3	1271.3
17.5°	927.8	949.1	961.6	1064.4	1243.7
20°	911.4	921.5	932.7	1014.2	1212.3
22.5°	900.2	894.0	902.6	979.2	1169.7
25°	892.6	868.8	878.9	951.6	1119.6
27.5°	898.9	846.3	850.0	926.5	1067.0
30°	900.2	818.7	819.9	900.2	1008.0
32.5°	891.4	789.8	791.1	867.6	941.5
35°	870.1	756.0	754.8	829.9	851.2
37.5°	841.2	719.6	719.6	788.6	752.3
40°	806.2	683.3	687.0	734.7	664.5
42.5°	763.6	644.4	649.4	663.3	599.2
45°	717.1	606.8	610.5	560.4	549.1
47.5°	665.7	567.9	569.2	465.1	532.9
50°	604.3	527.8	522.8	398.7	531.6
52.5°	550.4	483.9	468.8	361.1	482.7
55°	497.7	437.5	404.9	332.2	447.5
57.5°	451.4	377.3	346.0	298.4	440.1
60°	408.7	318.5	294.6	262.0	403.7
62.5°	373.6	274.5	269.6	236.9	366.1
65°	336.0	244.5	243.2	215.6	310.9
67.5°	299.7	224.4	223.2	195.5	236.9
70°	260.8	203.1	200.6	174.2	175.5
72.5°	220.7	179.3	176.8	156.8	145.4
75°	180.5	151.7	150.5	136.7	117.9
77.5°	141.7	120.4	122.8	110.3	86.6
80°	101.5	87.8	90.3	79.0	65.1
82.5°	67.7	57.7	60.2	50.2	43.8
85°	37.6	32.6	33.8	26.4	20.1
87.5°	17.6	15.0	15.0	10.0	6.3
90°	16.9	10.7	10.0	6.9	3.8
92.5°	104.6	74.4	67.9	41.6	15.4
95°	257.2	144.9	132.9	85.0	37.0
97.5°	346.5	159.1	148.5	106.2	63.9
100°	379.0	171.1	161.4	123.1	84.8
102.5°	393.9	183.0	174.0	138.3	102.5
105°	405.0	200.8	193.2	162.8	132.5
107.5°	407.0	226.9	219.8	191.6	163.4
110°	404.0	241.6	235.3	209.7	184.1



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CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	404.1	259.3	253.2	228.9	204.6
115°	407.8	285.9	280.3	257.9	235.5
117.5°	415.4	311.7	306.6	286.2	265.8
120°	421.6	326.8	322.0	302.8	283.6
122.5°	430.3	344.4	339.6	320.2	300.9
125°	442.3	367.2	362.8	345.1	327.5
127.5°	454.3	389.1	384.6	366.9	349.1
130°	463.0	403.8	399.0	379.8	360.6
132.5°	470.1	415.8	411.0	391.7	372.6
135°	477.7	429.6	425.2	407.8	390.3
137.5°	489.3	447.4	443.1	425.8	408.5
140°	496.4	459.3	455.3	439.4	423.4
142.5°	502.3	468.1	464.5	449.7	435.0
145°	510.1	481.7	478.5	465.6	452.8
147.5°	521.3	498.6	495.5	483.0	470.4
150°	527.3	507.5	504.6	493.3	482.0
152.5°	531.1	513.2	511.1	502.6	494.0
155°	539.6	526.0	524.4	518.0	511.7
157.5°	548.0	538.7	537.1	530.9	524.7
160°	551.9	544.5	543.3	538.5	533.6
162.5°	556.1	550.6	549.7	546.1	542.5
165°	561.9	559.4	558.6	555.4	552.1
167.5°	566.5	564.5	564.1	562.5	561.0
170°	570.4	570.3	569.9	568.3	566.8
172.5°	570.6	570.6	570.5	570.3	569.9
175°	573.0	574.1	574.1	574.1	574.1
177.5°	573.2	574.1	574.1	574.1	574.1
180°	574.1	574.1	574.1	574.1	574.1



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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	10.93	11.78	11.91	12.76	14.06	13.77	14.61	14.74	15.60	16.90
	3H	11.41	12.16	12.39	13.16	14.48	15.12	15.87	16.10	16.87	18.19
	4H	11.60	12.31	12.60	13.31	14.64	15.56	16.28	16.56	17.28	18.61
	6H	11.72	12.37	12.72	13.38	14.72	15.85	16.51	16.86	17.51	18.85
	8H	11.72	12.34	12.73	13.36	14.70	15.92	16.55	16.94	17.57	18.91
	12H	11.69	12.28	12.71	13.30	14.66	15.96	16.56	16.98	17.57	18.94
4H	2H	11.96	12.68	12.97	13.68	15.01	14.18	14.89	15.18	15.89	17.22
	3H	12.99	13.59	14.00	14.61	15.96	15.68	16.28	16.70	17.31	18.65
	4H	13.26	13.81	14.29	14.83	16.20	16.21	16.76	17.23	17.78	19.14
	6H	13.39	13.86	14.42	14.90	16.26	16.58	17.05	17.61	18.09	19.45
	8H	13.39	13.83	14.43	14.87	16.25	16.68	17.12	17.72	18.16	19.54
	12H	13.36	13.76	14.41	14.81	16.19	16.74	17.14	17.79	18.19	19.57
8H	4H	13.72	14.16	14.75	15.19	16.57	16.33	16.77	17.37	17.81	19.19
	6H	13.98	14.34	15.04	15.42	16.80	16.77	17.13	17.83	18.21	19.59
	8H	14.02	14.34	15.09	15.40	16.80	16.92	17.24	17.99	18.31	19.70
	12H	14.00	14.28	15.07	15.34	16.78	17.02	17.30	18.09	18.36	19.80
12H	4H	13.72	14.12	14.78	15.17	16.55	16.30	16.69	17.35	17.75	19.13
	6H	14.04	14.36	15.10	15.42	16.82	16.77	17.09	17.83	18.15	19.55
	8H	14.11	14.39	15.17	15.45	16.88	16.93	17.21	18.00	18.27	19.71