

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: P934647

Luminaire Tested: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934647
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-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

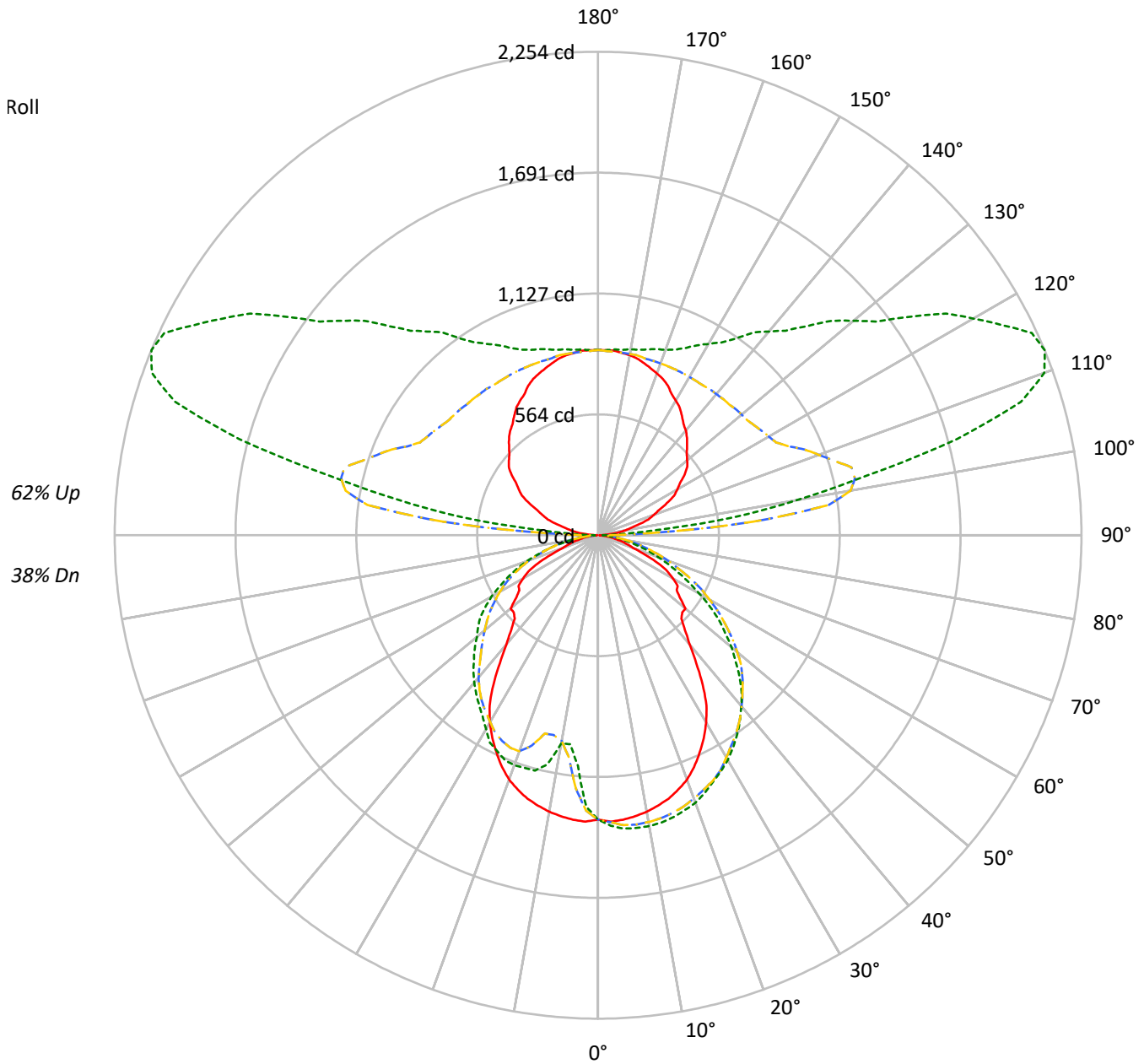
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9036.7 lumens
Efficiency: N/A
Efficacy: 131.3 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
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32			32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27			27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23			23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20			20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17			17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15			15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13			13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12			12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11			11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10			10

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	1.3
10°-20°	339.6	3.8
20°-30°	525.0	5.8
30°-40°	626.8	6.9
40°-50°	630.4	7.0
50°-60°	548.5	6.1
60°-70°	388.9	4.3
70°-80°	205.8	2.3
80°-90°	54.5	0.6
90°-100°	420.9	4.7
100°-110°	1106.5	12.2
110°-120°	1147.4	12.7
120°-130°	920.3	10.2
130°-140°	722.1	8.0
140°-150°	554.3	6.1
150°-160°	399.2	4.4
160°-170°	244.2	2.7
170°-180°	82.5	0.9
0°-30°	984.3	10.9
0°-40°	1611.0	17.8
0°-60°	2790.0	30.9
0°-90°	3439.3	38.1
90°-120°	2674.8	29.6
90°-150°	4871.6	53.9
90°-180°	5597.0	61.9
0°-180°	9036.7	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°	6	22	6	22	6	6
95°	56	254	56	254	56	62
105°	199	1733	199	1733	199	211
115°	354	2231	354	2231	354	350
125°	493	1777	493	1777	493	437
135°	587	1379	587	1379	587	454
145°	681	1118	681	1118	681	427
155°	770	963	770	963	770	354
165°	830	897	830	897	830	234
175°	864	869	864	869	864	82
180°	864	864	864	864	864	



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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°	5.8	10.5	15.1	16.3	25.5	37.9	44.0	39.2	29.3	22.1	22.1
92.5°	23.2	62.6	102.1	111.9	157.3	217.8	248.1	217.4	156.1	110.1	105.7
95°	55.6	127.8	199.8	217.9	386.9	612.2	725.0	646.9	490.8	373.8	360.5
97.5°	96.2	159.8	223.5	239.4	521.2	896.9	1084.8	1035.5	936.9	862.9	837.7
100°	127.5	185.2	242.9	257.3	570.1	987.0	1195.5	1199.1	1206.3	1211.8	1181.7
102.5°	154.1	208.0	261.8	275.3	592.4	1015.4	1226.8	1289.6	1415.3	1509.6	1483.8
105°	199.4	245.0	290.5	301.9	609.1	1018.5	1223.3	1364.2	1645.9	1857.3	1843.4
107.5°	245.7	288.3	330.7	341.4	612.1	973.2	1153.8	1350.3	1743.3	2038.1	2041.5
110°	277.0	315.4	353.7	363.3	607.5	933.0	1095.8	1315.5	1754.9	2084.5	2098.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	307.7	344.3	380.8	390.0	607.7	898.0	1043.1	1268.0	1717.7	2055.0	2077.1
115°	354.1	387.8	421.6	430.0	613.3	857.7	979.9	1196.5	1629.8	1954.7	1985.4
117.5°	399.9	430.5	461.2	468.8	624.8	832.5	936.5	1131.9	1522.9	1816.1	1850.2
120°	426.5	455.3	484.2	491.4	633.9	824.0	919.1	1097.7	1455.0	1722.9	1755.9
122.5°	452.6	481.7	510.8	518.1	647.3	819.6	905.7	1066.6	1388.3	1629.6	1662.2
125°	492.6	519.1	545.6	552.2	665.2	815.9	891.2	1027.9	1301.1	1506.1	1536.2
127.5°	525.0	551.9	578.6	585.3	683.3	813.8	879.1	996.4	1231.0	1407.0	1432.3
130°	542.4	571.2	600.1	607.3	696.4	815.2	874.5	978.9	1187.8	1344.5	1367.9
132.5°	560.4	589.2	618.1	625.3	707.0	815.9	870.4	963.9	1150.9	1291.1	1312.1
135°	587.0	613.3	639.6	646.2	718.6	815.2	863.5	941.8	1098.4	1215.8	1233.9
137.5°	614.3	640.3	666.3	672.8	736.0	820.2	862.3	928.4	1060.9	1160.2	1174.9
140°	636.9	660.8	684.8	690.7	746.5	821.0	858.2	915.5	1029.8	1115.6	1129.4
142.5°	654.3	676.4	698.6	704.1	755.5	824.0	858.2	908.4	1008.9	1084.3	1096.1
145°	680.9	700.3	719.5	724.4	767.1	824.0	852.5	893.6	975.7	1037.3	1046.3
147.5°	707.6	726.4	745.2	749.9	784.1	829.6	852.5	884.8	949.4	997.9	1005.4
150°	725.0	742.0	759.0	763.2	792.9	832.6	852.5	879.7	934.3	975.3	981.3
152.5°	742.9	755.8	768.7	771.9	798.7	834.5	852.5	875.7	922.4	957.3	961.9
155°	769.5	779.1	788.6	791.0	811.5	838.8	852.5	871.0	908.1	935.9	938.9
157.5°	789.3	798.5	807.8	810.1	824.2	843.0	852.5	866.8	895.7	917.3	919.5
160°	802.6	809.8	817.0	818.8	830.0	845.0	852.5	864.8	889.6	908.1	909.3
162.5°	815.9	821.3	826.7	828.1	836.3	847.0	852.5	862.9	883.8	899.4	900.5
165°	830.4	835.3	840.2	841.4	845.1	850.0	852.5	859.9	874.9	886.1	887.3
167.5°	843.8	846.1	848.4	849.0	852.1	856.2	858.2	863.1	872.9	880.3	880.8
170°	852.5	854.8	857.1	857.7	857.9	858.2	858.2	863.1	872.9	880.3	880.3
172.5°	857.1	857.6	858.2	858.2	858.2	858.2	858.2	862.1	869.8	875.6	875.2
175°	863.5	863.5	863.5	863.5	861.7	859.4	858.2	860.7	865.6	869.3	869.3
177.5°	863.5	863.5	863.5	863.5	862.1	860.3	859.4	861.3	865.2	868.1	867.6
180°	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5



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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°	22.1	22.1	22.1	22.1	22.1	29.3	39.2	44.0	37.9	25.5	16.3
92.5°	88.2	70.7	88.2	105.7	110.1	156.1	217.4	248.1	217.8	157.3	111.9
95°	307.5	254.4	307.5	360.5	373.8	490.8	646.9	725.0	612.2	386.9	217.9
97.5°	736.6	635.7	736.6	837.7	862.9	936.9	1035.5	1084.8	896.9	521.2	239.4
100°	1061.5	941.2	1061.5	1181.7	1211.8	1206.3	1199.1	1195.5	987.0	570.1	257.3
102.5°	1380.8	1277.8	1380.8	1483.8	1509.6	1415.3	1289.6	1226.8	1015.4	592.4	275.3
105°	1788.0	1732.7	1788.0	1843.4	1857.3	1645.9	1364.2	1223.3	1018.5	609.1	301.9
107.5°	2054.9	2068.2	2054.9	2041.5	2038.1	1743.3	1350.3	1153.8	973.2	612.1	341.4
110°	2156.6	2214.3	2156.6	2098.9	2084.5	1754.9	1315.5	1095.8	933.0	607.5	363.3



TEST NUMBER: P934647

CATALOG NUMBER: SQ4-FA-075U-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°	2165.6	2254.2	2165.6	2077.1	2055.0	1717.7	1268.0	1043.1	898.0	607.7	390.0
115°	2108.2	2231.0	2108.2	1985.4	1954.7	1629.8	1196.5	979.9	857.7	613.3	430.0
117.5°	1986.4	2122.7	1986.4	1850.2	1816.1	1522.9	1131.9	936.5	832.5	624.8	468.8
120°	1888.4	2020.7	1888.4	1755.9	1722.9	1455.0	1097.7	919.1	824.0	633.9	491.4
122.5°	1792.8	1923.3	1792.8	1662.2	1629.6	1388.3	1066.6	905.7	819.6	647.3	518.1
125°	1656.5	1776.8	1656.5	1536.2	1506.1	1301.1	1027.9	891.2	815.9	665.2	552.2
127.5°	1533.9	1635.4	1533.9	1432.3	1407.0	1231.0	996.4	879.1	813.8	683.3	585.3
130°	1461.6	1555.4	1461.6	1367.9	1344.5	1187.8	978.9	874.5	815.2	696.4	607.3
132.5°	1396.1	1480.0	1396.1	1312.1	1291.1	1150.9	963.9	870.4	815.9	707.0	625.3
135°	1306.3	1378.6	1306.3	1233.9	1215.8	1098.4	941.8	863.5	815.2	718.6	646.2
137.5°	1234.2	1293.4	1234.2	1174.9	1160.2	1060.9	928.4	862.3	820.2	736.0	672.8
140°	1184.8	1240.2	1184.8	1129.4	1115.6	1029.8	915.5	858.2	821.0	746.5	690.7
142.5°	1143.8	1191.5	1143.8	1096.1	1084.3	1008.9	908.4	858.2	824.0	755.5	704.1
145°	1082.4	1118.5	1082.4	1046.3	1037.3	975.7	893.6	852.5	824.0	767.1	724.4
147.5°	1035.2	1065.1	1035.2	1005.4	997.9	949.4	884.8	852.5	829.6	784.1	749.9
150°	1005.6	1029.8	1005.6	981.3	975.3	934.3	879.7	852.5	832.6	792.9	763.2
152.5°	980.1	998.5	980.1	961.9	957.3	922.4	875.7	852.5	834.5	798.7	771.9
155°	951.1	963.1	951.1	938.9	935.9	908.1	871.0	852.5	838.8	811.5	791.0
157.5°	928.0	936.5	928.0	919.5	917.3	895.7	866.8	852.5	843.0	824.2	810.1
160°	914.2	919.1	914.2	909.3	908.1	889.6	864.8	852.5	845.0	830.0	818.8
162.5°	905.2	909.8	905.2	900.5	899.4	883.8	862.9	852.5	847.0	836.3	828.1
165°	892.2	897.0	892.2	887.3	886.1	874.9	859.9	852.5	850.0	845.1	841.4
167.5°	882.8	884.9	882.8	880.8	880.3	872.9	863.1	858.2	856.2	852.1	849.0
170°	880.3	880.3	880.3	880.3	880.3	872.9	863.1	858.2	858.2	857.9	857.7
172.5°	873.4	871.6	873.4	875.2	875.6	869.8	862.1	858.2	858.2	858.2	858.2
175°	869.3	869.3	869.3	869.3	869.3	865.6	860.7	858.2	859.4	861.7	863.5
177.5°	865.5	863.5	865.5	867.6	868.1	865.2	861.3	859.4	860.3	862.1	863.5
180°	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5



TEST NUMBER: P934647

CATALOG NUMBER: SQ4-FA-075U-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°	15.1	10.5	5.8	10.5	15.1	16.3	25.5	37.9	44.0	39.2	29.3
92.5°	102.1	62.6	23.2	62.6	102.1	111.9	157.3	217.8	248.1	217.4	156.1
95°	199.8	127.8	55.6	127.8	199.8	217.9	386.9	612.2	725.0	646.9	490.8
97.5°	223.5	159.8	96.2	159.8	223.5	239.4	521.2	896.9	1084.8	1035.5	936.9
100°	242.9	185.2	127.5	185.2	242.9	257.3	570.1	987.0	1195.5	1199.1	1206.3
102.5°	261.8	208.0	154.1	208.0	261.8	275.3	592.4	1015.4	1226.8	1289.6	1415.3
105°	290.5	245.0	199.4	245.0	290.5	301.9	609.1	1018.5	1223.3	1364.2	1645.9
107.5°	330.7	288.3	245.7	288.3	330.7	341.4	612.1	973.2	1153.8	1350.3	1743.3
110°	353.7	315.4	277.0	315.4	353.7	363.3	607.5	933.0	1095.8	1315.5	1754.9



TEST NUMBER: P934647

CATALOG NUMBER: SQ4-FA-075U-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°	380.8	344.3	307.7	344.3	380.8	390.0	607.7	898.0	1043.1	1268.0	1717.7
115°	421.6	387.8	354.1	387.8	421.6	430.0	613.3	857.7	979.9	1196.5	1629.8
117.5°	461.2	430.5	399.9	430.5	461.2	468.8	624.8	832.5	936.5	1131.9	1522.9
120°	484.2	455.3	426.5	455.3	484.2	491.4	633.9	824.0	919.1	1097.7	1455.0
122.5°	510.8	481.7	452.6	481.7	510.8	518.1	647.3	819.6	905.7	1066.6	1388.3
125°	545.6	519.1	492.6	519.1	545.6	552.2	665.2	815.9	891.2	1027.9	1301.1
127.5°	578.6	551.9	525.0	551.9	578.6	585.3	683.3	813.8	879.1	996.4	1231.0
130°	600.1	571.2	542.4	571.2	600.1	607.3	696.4	815.2	874.5	978.9	1187.8
132.5°	618.1	589.2	560.4	589.2	618.1	625.3	707.0	815.9	870.4	963.9	1150.9
135°	639.6	613.3	587.0	613.3	639.6	646.2	718.6	815.2	863.5	941.8	1098.4
137.5°	666.3	640.3	614.3	640.3	666.3	672.8	736.0	820.2	862.3	928.4	1060.9
140°	684.8	660.8	636.9	660.8	684.8	690.7	746.5	821.0	858.2	915.5	1029.8
142.5°	698.6	676.4	654.3	676.4	698.6	704.1	755.5	824.0	858.2	908.4	1008.9
145°	719.5	700.3	680.9	700.3	719.5	724.4	767.1	824.0	852.5	893.6	975.7
147.5°	745.2	726.4	707.6	726.4	745.2	749.9	784.1	829.6	852.5	884.8	949.4
150°	759.0	742.0	725.0	742.0	759.0	763.2	792.9	832.6	852.5	879.7	934.3
152.5°	768.7	755.8	742.9	755.8	768.7	771.9	798.7	834.5	852.5	875.7	922.4
155°	788.6	779.1	769.5	779.1	788.6	791.0	811.5	838.8	852.5	871.0	908.1
157.5°	807.8	798.5	789.3	798.5	807.8	810.1	824.2	843.0	852.5	866.8	895.7
160°	817.0	809.8	802.6	809.8	817.0	818.8	830.0	845.0	852.5	864.8	889.6
162.5°	826.7	821.3	815.9	821.3	826.7	828.1	836.3	847.0	852.5	862.9	883.8
165°	840.2	835.3	830.4	835.3	840.2	841.4	845.1	850.0	852.5	859.9	874.9
167.5°	848.4	846.1	843.8	846.1	848.4	849.0	852.1	856.2	858.2	863.1	872.9
170°	857.1	854.8	852.5	854.8	857.1	857.7	857.9	858.2	858.2	863.1	872.9
172.5°	858.2	857.6	857.1	857.6	858.2	858.2	858.2	858.2	858.2	862.1	869.8
175°	863.5	863.5	863.5	863.5	863.5	863.5	861.7	859.4	858.2	860.7	865.6
177.5°	863.5	863.5	863.5	863.5	863.5	863.5	862.1	860.3	859.4	861.3	865.2
180°	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5



TEST NUMBER: P934647

CATALOG NUMBER: SQ4-FA-075U-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°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	29.3	39.2	44.0	37.9
92.5°	110.1	105.7	88.2	70.7	88.2	105.7	110.1	156.1	217.4	248.1	217.8
95°	373.8	360.5	307.5	254.4	307.5	360.5	373.8	490.8	646.9	725.0	612.2
97.5°	862.9	837.7	736.6	635.7	736.6	837.7	862.9	936.9	1035.5	1084.8	896.9
100°	1211.8	1181.7	1061.5	941.2	1061.5	1181.7	1211.8	1206.3	1199.1	1195.5	987.0
102.5°	1509.6	1483.8	1380.8	1277.8	1380.8	1483.8	1509.6	1415.3	1289.6	1226.8	1015.4
105°	1857.3	1843.4	1788.0	1732.7	1788.0	1843.4	1857.3	1645.9	1364.2	1223.3	1018.5
107.5°	2038.1	2041.5	2054.9	2068.2	2054.9	2041.5	2038.1	1743.3	1350.3	1153.8	973.2
110°	2084.5	2098.9	2156.6	2214.3	2156.6	2098.9	2084.5	1754.9	1315.5	1095.8	933.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2055.0	2077.1	2165.6	2254.2	2165.6	2077.1	2055.0	1717.7	1268.0	1043.1	898.0
115°	1954.7	1985.4	2108.2	2231.0	2108.2	1985.4	1954.7	1629.8	1196.5	979.9	857.7
117.5°	1816.1	1850.2	1986.4	2122.7	1986.4	1850.2	1816.1	1522.9	1131.9	936.5	832.5
120°	1722.9	1755.9	1888.4	2020.7	1888.4	1755.9	1722.9	1455.0	1097.7	919.1	824.0
122.5°	1629.6	1662.2	1792.8	1923.3	1792.8	1662.2	1629.6	1388.3	1066.6	905.7	819.6
125°	1506.1	1536.2	1656.5	1776.8	1656.5	1536.2	1506.1	1301.1	1027.9	891.2	815.9
127.5°	1407.0	1432.3	1533.9	1635.4	1533.9	1432.3	1407.0	1231.0	996.4	879.1	813.8
130°	1344.5	1367.9	1461.6	1555.4	1461.6	1367.9	1344.5	1187.8	978.9	874.5	815.2
132.5°	1291.1	1312.1	1396.1	1480.0	1396.1	1312.1	1291.1	1150.9	963.9	870.4	815.9
135°	1215.8	1233.9	1306.3	1378.6	1306.3	1233.9	1215.8	1098.4	941.8	863.5	815.2
137.5°	1160.2	1174.9	1234.2	1293.4	1234.2	1174.9	1160.2	1060.9	928.4	862.3	820.2
140°	1115.6	1129.4	1184.8	1240.2	1184.8	1129.4	1115.6	1029.8	915.5	858.2	821.0
142.5°	1084.3	1096.1	1143.8	1191.5	1143.8	1096.1	1084.3	1008.9	908.4	858.2	824.0
145°	1037.3	1046.3	1082.4	1118.5	1082.4	1046.3	1037.3	975.7	893.6	852.5	824.0
147.5°	997.9	1005.4	1035.2	1065.1	1035.2	1005.4	997.9	949.4	884.8	852.5	829.6
150°	975.3	981.3	1005.6	1029.8	1005.6	981.3	975.3	934.3	879.7	852.5	832.6
152.5°	957.3	961.9	980.1	998.5	980.1	961.9	957.3	922.4	875.7	852.5	834.5
155°	935.9	938.9	951.1	963.1	951.1	938.9	935.9	908.1	871.0	852.5	838.8
157.5°	917.3	919.5	928.0	936.5	928.0	919.5	917.3	895.7	866.8	852.5	843.0
160°	908.1	909.3	914.2	919.1	914.2	909.3	908.1	889.6	864.8	852.5	845.0
162.5°	899.4	900.5	905.2	909.8	905.2	900.5	899.4	883.8	862.9	852.5	847.0
165°	886.1	887.3	892.2	897.0	892.2	887.3	886.1	874.9	859.9	852.5	850.0
167.5°	880.3	880.8	882.8	884.9	882.8	880.8	880.3	872.9	863.1	858.2	856.2
170°	880.3	880.3	880.3	880.3	880.3	880.3	880.3	872.9	863.1	858.2	858.2
172.5°	875.6	875.2	873.4	871.6	873.4	875.2	875.6	869.8	862.1	858.2	858.2
175°	869.3	869.3	869.3	869.3	869.3	869.3	869.3	865.6	860.7	858.2	859.4
177.5°	868.1	867.6	865.5	863.5	865.5	867.6	868.1	865.2	861.3	859.4	860.3
180°	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5	863.5



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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°	25.5	16.3	15.1	10.5	5.8
92.5°	157.3	111.9	102.1	62.6	23.2
95°	386.9	217.9	199.8	127.8	55.6
97.5°	521.2	239.4	223.5	159.8	96.2
100°	570.1	257.3	242.9	185.2	127.5
102.5°	592.4	275.3	261.8	208.0	154.1
105°	609.1	301.9	290.5	245.0	199.4
107.5°	612.1	341.4	330.7	288.3	245.7
110°	607.5	363.3	353.7	315.4	277.0



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CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	607.7	390.0	380.8	344.3	307.7
115°	613.3	430.0	421.6	387.8	354.1
117.5°	624.8	468.8	461.2	430.5	399.9
120°	633.9	491.4	484.2	455.3	426.5
122.5°	647.3	518.1	510.8	481.7	452.6
125°	665.2	552.2	545.6	519.1	492.6
127.5°	683.3	585.3	578.6	551.9	525.0
130°	696.4	607.3	600.1	571.2	542.4
132.5°	707.0	625.3	618.1	589.2	560.4
135°	718.6	646.2	639.6	613.3	587.0
137.5°	736.0	672.8	666.3	640.3	614.3
140°	746.5	690.7	684.8	660.8	636.9
142.5°	755.5	704.1	698.6	676.4	654.3
145°	767.1	724.4	719.5	700.3	680.9
147.5°	784.1	749.9	745.2	726.4	707.6
150°	792.9	763.2	759.0	742.0	725.0
152.5°	798.7	771.9	768.7	755.8	742.9
155°	811.5	791.0	788.6	779.1	769.5
157.5°	824.2	810.1	807.8	798.5	789.3
160°	830.0	818.8	817.0	809.8	802.6
162.5°	836.3	828.1	826.7	821.3	815.9
165°	845.1	841.4	840.2	835.3	830.4
167.5°	852.1	849.0	848.4	846.1	843.8
170°	857.9	857.7	857.1	854.8	852.5
172.5°	858.2	858.2	858.2	857.6	857.1
175°	861.7	863.5	863.5	863.5	863.5
177.5°	862.1	863.5	863.5	863.5	863.5
180°	863.5	863.5	863.5	863.5	863.5



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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	9.90	10.66	10.95	11.72	13.15	12.74	13.50	13.79	14.56	15.99
	3H	10.37	11.05	11.43	12.12	13.57	14.08	14.76	15.14	15.83	17.28
	4H	10.56	11.20	11.63	12.27	13.73	14.52	15.17	15.59	16.24	17.69
	6H	10.67	11.27	11.75	12.34	13.81	14.80	15.40	15.89	16.47	17.94
	8H	10.67	11.24	11.76	12.32	13.79	14.87	15.44	15.96	16.53	17.99
	12H	10.64	11.18	11.73	12.26	13.74	14.91	15.45	16.00	16.53	18.02
4H	2H	10.92	11.57	12.00	12.64	14.10	13.14	13.78	14.22	14.85	16.31
	3H	11.94	12.48	13.03	13.58	15.05	14.63	15.17	15.72	16.27	17.74
	4H	12.21	12.71	13.31	13.79	15.29	15.16	15.66	16.25	16.74	18.23
	6H	12.33	12.76	13.43	13.87	15.35	15.52	15.95	16.62	17.06	18.54
	8H	12.34	12.73	13.44	13.83	15.33	15.63	16.02	16.73	17.12	18.63
	12H	12.30	12.66	13.42	13.77	15.28	15.68	16.04	16.80	17.15	18.66
8H	4H	12.66	13.06	13.76	14.16	15.66	15.28	15.67	16.38	16.77	18.27
	6H	12.92	13.25	14.04	14.39	15.89	15.71	16.04	16.83	17.18	18.68
	8H	12.96	13.25	14.09	14.37	15.89	15.86	16.15	16.99	17.27	18.79
	12H	12.94	13.19	14.07	14.31	15.87	15.96	16.21	17.09	17.33	18.89
12H	4H	12.66	13.02	13.78	14.13	15.64	15.24	15.60	16.36	16.71	18.21
	6H	12.98	13.26	14.11	14.39	15.91	15.71	15.99	16.84	17.12	18.64
	8H	13.04	13.29	14.17	14.41	15.97	15.86	16.12	17.00	17.24	18.79