

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: P935331

Luminaire Tested: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935331
REPORT IS A COMBINATION OF REPORTS P933750 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

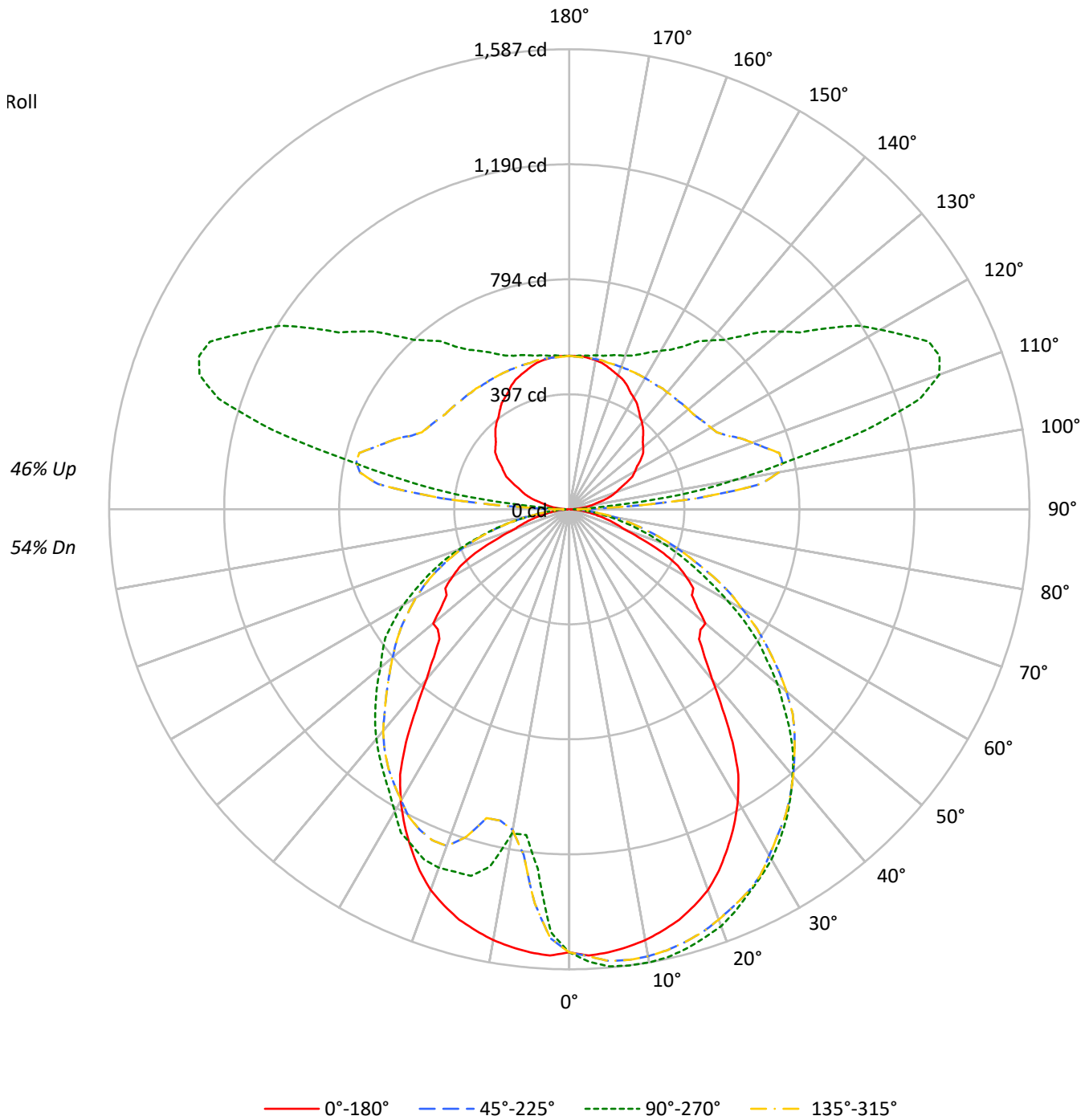
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7395.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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





TEST NUMBER: P935331

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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38
3	82	72	65	59	76	67	61	56	58	53	49	49	46	42	41	38	36	32
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28
5	69	57	49	43	64	53	46	41	46	40	36	39	35	31	33	30	27	24
6	63	51	43	37	59	48	41	35	41	36	31	35	31	28	30	26	24	21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	22	19	17
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14178	14178	14178	14178
5°	14267	14312	14267	11253
10°	14157	14097	14157	10079
15°	13987	13792	13987	11516
20°	13678	13431	13678	11541
25°	13064	12902	13064	11296
30°	12274	12464	12274	10760
35°	10927	11910	10927	10169
40°	9089	11258	9089	9723
45°	8105	10494	8105	9211
50°	8590	9583	8590	8696
55°	8062	8602	8062	8399
60°	8279	7306	8279	7692
65°	7471	6040	7471	6752
70°	5136	4813	5136	5658
75°	4457	3557	4457	4261
80°	3519	2352	3519	2560
85°	1913	1245	1913	1058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12446 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	1.9
10°-20°	391.6	5.3
20°-30°	605.3	8.2
30°-40°	722.6	9.8
40°-50°	726.8	9.8
50°-60°	632.4	8.6
60°-70°	448.4	6.1
70°-80°	237.2	3.2
80°-90°	61.1	0.8
90°-100°	258.0	3.5
100°-110°	678.4	9.2
110°-120°	703.4	9.5
120°-130°	564.2	7.6
130°-140°	442.7	6.0
140°-150°	339.8	4.6
150°-160°	244.7	3.3
160°-170°	149.7	2.0
170°-180°	50.6	0.7
0°-30°	1134.8	15.3
0°-40°	1857.4	25.1
0°-60°	3216.7	43.5
0°-90°	3963.5	53.6
90°-120°	1639.8	22.2
90°-150°	2986.5	40.4
90°-180°	3432.0	46.4
0°-180°	7395.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1528	1528	1528	1528	1528	
5°	1535	1583	1535	1244	1535	146
15°	1466	1568	1466	1310	1466	412
25°	1291	1463	1291	1281	1291	593
35°	982	1305	982	1114	982	607
45°	633	1075	633	944	633	507
55°	516	794	516	775	516	474
65°	358	478	358	535	358	343
75°	136	227	136	272	136	143
85°	23	58	23	49	23	31
90°	4	14	4	14	4	4
95°	34	156	34	156	34	38
105°	122	1062	122	1062	122	130
115°	217	1368	217	1368	217	214
125°	302	1089	302	1089	302	268
135°	360	845	360	845	360	278
145°	417	686	417	686	417	262
155°	472	590	472	590	472	217
165°	509	550	509	550	509	144
175°	529	533	529	533	529	50
180°	529	529	529	529	529	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1540.8	1540.8	1549.6	1552.5	1552.5	1548.1	1543.8	1548.1	1561.1	1565.4	1564.0
5°	1535.0	1546.7	1562.5	1565.4	1568.3	1566.9	1564.0	1566.9	1581.3	1584.2	1585.7
7.5°	1523.5	1545.2	1565.4	1569.8	1574.1	1569.8	1568.3	1571.3	1585.7	1588.6	1588.6
10°	1509.1	1539.4	1562.5	1565.4	1569.8	1565.4	1565.4	1571.3	1585.7	1588.6	1590.0
12.5°	1488.8	1530.8	1552.5	1555.3	1561.1	1559.6	1558.2	1564.0	1578.4	1581.3	1581.3
15°	1465.7	1514.9	1535.0	1537.9	1548.1	1545.2	1545.2	1551.0	1566.9	1571.3	1569.8
17.5°	1433.9	1494.6	1517.7	1522.1	1529.3	1527.9	1529.3	1535.0	1549.6	1552.5	1553.8
20°	1397.8	1467.1	1494.6	1498.9	1506.2	1506.2	1506.2	1513.4	1527.9	1533.7	1533.7
22.5°	1348.6	1438.3	1467.1	1470.0	1478.7	1478.7	1481.6	1491.7	1504.7	1506.2	1506.2
25°	1290.8	1406.4	1431.0	1439.7	1448.3	1452.7	1457.1	1462.8	1467.1	1465.7	1467.1
27.5°	1230.1	1365.9	1397.8	1403.5	1415.1	1419.5	1425.2	1426.6	1428.1	1432.5	1429.6
30°	1162.1	1309.5	1357.3	1363.1	1381.9	1384.7	1379.0	1381.9	1389.1	1392.0	1394.9
32.5°	1085.5	1225.8	1315.4	1328.3	1345.8	1337.1	1335.6	1340.0	1351.5	1351.5	1354.4
35°	981.5	1160.7	1276.3	1287.9	1300.9	1290.8	1296.6	1298.0	1305.3	1309.5	1308.2
37.5°	867.3	1104.3	1235.8	1244.5	1254.6	1241.6	1250.4	1254.6	1260.4	1257.5	1257.5
40°	766.1	1016.2	1188.2	1194.0	1202.6	1192.5	1201.2	1204.1	1207.0	1204.1	1202.6
42.5°	690.9	919.3	1137.6	1144.8	1139.0	1146.2	1149.1	1155.0	1150.6	1144.8	1144.8
45°	633.1	893.3	1082.6	1091.3	1082.6	1094.2	1098.6	1098.6	1085.5	1082.6	1081.2
47.5°	614.3	841.2	1027.7	1027.7	1023.4	1037.9	1045.0	1034.9	1022.0	1017.6	1017.6
50°	612.8	783.4	952.5	946.8	967.0	984.4	977.1	967.0	956.9	941.0	941.0
52.5°	556.5	712.6	855.8	877.4	909.2	919.3	907.8	897.6	880.3	873.1	867.3
55°	516.1	638.9	767.5	810.9	844.1	857.1	835.5	825.3	799.4	795.0	792.1
57.5°	507.4	532.0	686.6	741.6	782.0	780.6	767.5	748.7	727.0	722.8	721.3
60°	465.4	384.5	599.9	664.9	706.8	702.5	690.9	673.6	653.3	650.4	647.6
62.5°	422.1	279.0	501.5	575.3	634.5	633.1	623.0	597.0	582.5	575.3	569.5
65°	358.5	234.2	357.0	478.5	563.7	566.6	544.9	526.1	510.3	501.5	500.1
67.5°	273.2	190.8	241.4	399.0	495.8	492.9	465.4	456.8	436.5	432.2	423.6
70°	202.3	127.2	167.7	323.8	429.3	422.1	400.4	390.3	371.5	361.4	355.6
72.5°	167.7	102.7	122.8	251.5	361.4	352.7	333.9	322.3	306.5	297.7	291.9
75°	135.9	108.4	94.0	186.5	293.4	287.7	270.3	258.7	245.7	234.2	235.6
77.5°	99.8	101.2	75.2	137.3	232.7	224.0	214.0	199.4	193.7	182.1	182.1
80°	75.2	79.5	56.4	94.0	167.7	167.7	159.0	148.9	138.8	133.0	133.0
82.5°	50.6	50.6	41.9	59.3	114.2	109.8	104.0	101.2	95.4	92.5	92.5
85°	23.1	28.9	26.1	36.1	62.2	65.1	65.1	62.2	60.7	57.8	59.3
87.5°	7.3	13.0	15.9	20.2	31.8	33.2	34.7	34.7	34.7	36.1	36.1
90°	3.6	6.4	9.2	9.9	15.6	23.2	27.0	24.0	18.0	13.5	13.5
92.5°	14.2	38.4	62.5	68.6	96.4	133.5	152.0	133.2	95.7	67.5	64.8
95°	34.1	78.3	122.6	133.6	237.2	375.3	444.4	396.6	300.9	229.2	221.0
97.5°	58.9	98.0	137.0	146.7	319.5	549.9	665.0	634.8	574.3	529.0	513.5
100°	78.2	113.5	148.9	157.8	349.5	605.1	732.9	735.1	739.5	742.8	724.4
102.5°	94.5	127.5	160.5	168.8	363.3	622.5	752.1	790.7	867.7	925.4	909.6
105°	122.2	150.2	178.1	185.1	373.4	624.5	750.0	836.4	1009.1	1138.6	1130.2
107.5°	150.7	176.7	202.8	209.3	375.3	596.6	707.3	827.8	1068.8	1249.5	1251.6
110°	169.8	193.4	216.9	222.8	372.4	572.0	671.8	806.5	1075.9	1277.9	1286.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	188.7	211.1	233.4	239.1	372.6	550.5	639.5	777.3	1053.0	1259.8	1273.3
115°	217.0	237.7	258.4	263.6	376.0	525.9	600.8	733.6	999.2	1198.3	1217.1
117.5°	245.1	263.9	282.7	287.4	383.0	510.4	574.1	694.0	933.6	1113.4	1134.3
120°	261.4	279.1	296.8	301.3	388.6	505.2	563.5	673.0	892.0	1056.2	1076.5
122.5°	277.5	295.4	313.2	317.7	396.8	502.5	555.3	653.8	851.1	999.0	1019.0
125°	302.0	318.2	334.5	338.6	407.8	500.2	546.4	630.2	797.7	923.3	941.8
127.5°	321.8	338.2	354.7	358.8	418.9	498.9	539.0	610.9	754.7	862.6	878.1
130°	332.5	350.2	367.9	372.3	426.9	499.8	536.1	600.2	728.2	824.2	838.6
132.5°	343.5	361.2	378.9	383.3	433.4	500.2	533.6	590.9	705.5	791.5	804.4
135°	359.9	376.0	392.1	396.1	440.6	499.8	529.4	577.4	673.3	745.3	756.4
137.5°	376.6	392.6	408.4	412.5	451.2	502.8	528.6	569.2	650.3	711.2	720.3
140°	390.4	405.1	419.8	423.5	457.7	503.3	526.1	561.2	631.3	683.9	692.4
142.5°	401.1	414.7	428.3	431.7	463.2	505.1	526.1	556.9	618.5	664.7	672.0
145°	417.4	429.3	441.1	444.1	470.3	505.2	522.6	547.8	598.1	635.9	641.5
147.5°	433.8	445.3	456.8	459.7	480.7	508.6	522.6	542.5	582.1	611.8	616.4
150°	444.4	454.8	465.2	467.9	486.2	510.5	522.6	539.4	572.8	597.9	601.6
152.5°	455.4	463.3	471.2	473.2	489.7	511.6	522.6	536.9	565.4	586.9	589.7
155°	471.8	477.6	483.5	485.0	497.5	514.3	522.6	534.0	556.7	573.7	575.6
157.5°	483.9	489.6	495.2	496.7	505.3	516.8	522.6	531.4	549.1	562.4	563.6
160°	492.1	496.5	500.9	502.0	508.9	518.0	522.6	530.2	545.4	556.7	557.5
162.5°	500.2	503.5	506.8	507.7	512.6	519.3	522.6	529.0	541.8	551.3	552.0
165°	509.1	512.0	515.0	515.8	518.1	521.1	522.6	527.3	536.4	543.2	544.0
167.5°	517.3	518.7	520.2	520.5	522.4	524.9	526.1	529.1	535.1	539.6	540.0
170°	522.6	524.0	525.5	525.8	525.9	526.1	526.1	529.1	535.1	539.6	539.6
172.5°	525.5	525.8	526.1	526.1	526.1	526.1	526.1	528.5	533.2	536.8	536.6
175°	529.4	529.4	529.4	529.4	528.3	526.8	526.1	527.7	530.7	532.9	532.9
177.5°	529.4	529.4	529.4	529.4	528.5	527.4	526.8	528.0	530.4	532.2	531.9
180°	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1566.9	1562.5	1566.9	1564.0	1565.4	1561.1	1548.1	1543.8	1548.1	1552.5	1552.5
5°	1585.7	1582.8	1585.7	1585.7	1584.2	1581.3	1566.9	1564.0	1566.9	1568.3	1565.4
7.5°	1591.4	1587.1	1591.4	1588.6	1588.6	1585.7	1571.3	1568.3	1569.8	1574.1	1569.8
10°	1591.4	1587.1	1591.4	1590.0	1588.6	1585.7	1571.3	1565.4	1565.4	1569.8	1565.4
12.5°	1584.2	1581.3	1584.2	1581.3	1581.3	1578.4	1564.0	1558.2	1559.6	1561.1	1555.3
15°	1572.6	1568.3	1572.6	1569.8	1571.3	1566.9	1551.0	1545.2	1545.2	1548.1	1537.9
17.5°	1555.3	1549.6	1555.3	1553.8	1552.5	1549.6	1535.0	1529.3	1527.9	1529.3	1522.1
20°	1535.0	1530.8	1535.0	1533.7	1533.7	1527.9	1513.4	1506.2	1506.2	1506.2	1498.9
22.5°	1503.3	1498.9	1503.3	1506.2	1506.2	1504.7	1491.7	1481.6	1478.7	1478.7	1470.0
25°	1467.1	1462.8	1467.1	1467.1	1465.7	1467.1	1462.8	1457.1	1452.7	1448.3	1439.7
27.5°	1432.5	1429.6	1432.5	1429.6	1432.5	1428.1	1426.6	1425.2	1419.5	1415.1	1403.5
30°	1397.8	1394.9	1397.8	1394.9	1392.0	1389.1	1381.9	1379.0	1384.7	1381.9	1363.1
32.5°	1354.4	1351.5	1354.4	1354.4	1351.5	1351.5	1340.0	1335.6	1337.1	1345.8	1328.3
35°	1309.5	1305.3	1309.5	1308.2	1309.5	1305.3	1298.0	1296.6	1290.8	1300.9	1287.9
37.5°	1257.5	1253.2	1257.5	1257.5	1257.5	1260.4	1254.6	1250.4	1241.6	1254.6	1244.5
40°	1204.1	1198.3	1204.1	1202.6	1204.1	1207.0	1204.1	1201.2	1192.5	1202.6	1194.0
42.5°	1143.3	1141.9	1143.3	1144.8	1144.8	1150.6	1155.0	1149.1	1146.2	1139.0	1144.8
45°	1078.3	1075.4	1078.3	1081.2	1082.6	1085.5	1098.6	1098.6	1094.2	1082.6	1091.3
47.5°	1008.9	1001.7	1008.9	1017.6	1017.6	1022.0	1034.9	1045.0	1037.9	1023.4	1027.7
50°	935.2	936.6	935.2	941.0	941.0	956.9	967.0	977.1	984.4	967.0	946.8
52.5°	862.9	861.5	862.9	867.3	873.1	880.3	897.6	907.8	919.3	909.2	877.4
55°	790.7	793.6	790.7	792.1	795.0	799.4	825.3	835.5	857.1	844.1	810.9
57.5°	718.4	714.1	718.4	721.3	722.8	727.0	748.7	767.5	780.6	782.0	741.6
60°	634.5	628.8	634.5	647.6	650.4	653.3	673.6	690.9	702.5	706.8	664.9
62.5°	560.8	550.7	560.8	569.5	575.3	582.5	597.0	623.0	633.1	634.5	575.3
65°	482.8	478.5	482.8	500.1	501.5	510.3	526.1	544.9	566.6	563.7	478.5
67.5°	411.9	411.9	411.9	423.6	432.2	436.5	456.8	465.4	492.9	495.8	399.0
70°	346.9	345.5	346.9	355.6	361.4	371.5	390.3	400.4	422.1	429.3	323.8
72.5°	284.8	283.3	284.8	291.9	297.7	306.5	322.3	333.9	352.7	361.4	251.5
75°	229.8	226.9	229.8	235.6	234.2	245.7	258.7	270.3	287.7	293.4	186.5
77.5°	176.4	176.4	176.4	182.1	182.1	193.7	199.4	214.0	224.0	232.7	137.3
80°	131.5	130.1	131.5	133.0	133.0	138.8	148.9	159.0	167.7	167.7	94.0
82.5°	92.5	89.6	92.5	92.5	92.5	95.4	101.2	104.0	109.8	114.2	59.3
85°	57.8	57.8	57.8	59.3	57.8	60.7	62.2	65.1	65.1	62.2	36.1
87.5°	37.6	36.1	37.6	36.1	36.1	34.7	34.7	34.7	33.2	31.8	20.2
90°	13.5	13.5	13.5	13.5	13.5	18.0	24.0	27.0	23.2	15.6	9.9
92.5°	54.1	43.3	54.1	64.8	67.5	95.7	133.2	152.0	133.5	96.4	68.6
95°	188.5	156.0	188.5	221.0	229.2	300.9	396.6	444.4	375.3	237.2	133.6
97.5°	451.6	389.7	451.6	513.5	529.0	574.3	634.8	665.0	549.9	319.5	146.7
100°	650.7	577.0	650.7	724.4	742.8	739.5	735.1	732.9	605.1	349.5	157.8
102.5°	846.5	783.4	846.5	909.6	925.4	867.7	790.7	752.1	622.5	363.3	168.8
105°	1096.2	1062.3	1096.2	1130.2	1138.6	1009.1	836.4	750.0	624.5	373.4	185.1
107.5°	1259.8	1268.0	1259.8	1251.6	1249.5	1068.8	827.8	707.3	596.6	375.3	209.3
110°	1322.1	1357.5	1322.1	1286.7	1277.9	1075.9	806.5	671.8	572.0	372.4	222.8



TEST NUMBER: P935331

CATALOG NUMBER: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1327.7	1382.0	1327.7	1273.3	1259.8	1053.0	777.3	639.5	550.5	372.6	239.1
115°	1292.5	1367.8	1292.5	1217.1	1198.3	999.2	733.6	600.8	525.9	376.0	263.6
117.5°	1217.8	1301.3	1217.8	1134.3	1113.4	933.6	694.0	574.1	510.4	383.0	287.4
120°	1157.7	1238.8	1157.7	1076.5	1056.2	892.0	673.0	563.5	505.2	388.6	301.3
122.5°	1099.1	1179.1	1099.1	1019.0	999.0	851.1	653.8	555.3	502.5	396.8	317.7
125°	1015.5	1089.3	1015.5	941.8	923.3	797.7	630.2	546.4	500.2	407.8	338.6
127.5°	940.4	1002.6	940.4	878.1	862.6	754.7	610.9	539.0	498.9	418.9	358.8
130°	896.1	953.5	896.1	838.6	824.2	728.2	600.2	536.1	499.8	426.9	372.3
132.5°	855.8	907.3	855.8	804.4	791.5	705.5	590.9	533.6	500.2	433.4	383.3
135°	800.7	845.2	800.7	756.4	745.3	673.3	577.4	529.4	499.8	440.6	396.1
137.5°	756.7	793.0	756.7	720.3	711.2	650.3	569.2	528.6	502.8	451.2	412.5
140°	726.4	760.3	726.4	692.4	683.9	631.3	561.2	526.1	503.3	457.7	423.5
142.5°	701.2	730.5	701.2	672.0	664.7	618.5	556.9	526.1	505.1	463.2	431.7
145°	663.6	685.7	663.6	641.5	635.9	598.1	547.8	522.6	505.2	470.3	444.1
147.5°	634.7	653.0	634.7	616.4	611.8	582.1	542.5	522.6	508.6	480.7	459.7
150°	616.4	631.3	616.4	601.6	597.9	572.8	539.4	522.6	510.5	486.2	467.9
152.5°	600.9	612.2	600.9	589.7	586.9	565.4	536.9	522.6	511.6	489.7	473.2
155°	583.0	590.5	583.0	575.6	573.7	556.7	534.0	522.6	514.3	497.5	485.0
157.5°	568.9	574.1	568.9	563.6	562.4	549.1	531.4	522.6	516.8	505.3	496.7
160°	560.5	563.5	560.5	557.5	556.7	545.4	530.2	522.6	518.0	508.9	502.0
162.5°	554.9	557.7	554.9	552.0	551.3	541.8	529.0	522.6	519.3	512.6	507.7
165°	547.0	550.0	547.0	544.0	543.2	536.4	527.3	522.6	521.1	518.1	515.8
167.5°	541.2	542.5	541.2	540.0	539.6	535.1	529.1	526.1	524.9	522.4	520.5
170°	539.6	539.6	539.6	539.6	539.6	535.1	529.1	526.1	526.1	525.9	525.8
172.5°	535.5	534.3	535.5	536.6	536.8	533.2	528.5	526.1	526.1	526.1	526.1
175°	532.9	532.9	532.9	532.9	532.9	530.7	527.7	526.1	526.8	528.3	529.4
177.5°	530.7	529.4	530.7	531.9	532.2	530.4	528.0	526.8	527.4	528.5	529.4
180°	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4



TEST NUMBER: P935331

CATALOG NUMBER: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1549.6	1540.8	1540.8	1526.4	1520.6	1516.2	1509.1	1487.4	1481.6	1475.8	1484.5
5°	1562.5	1546.7	1535.0	1509.1	1487.4	1478.7	1451.2	1399.2	1364.6	1338.5	1324.1
7.5°	1565.4	1545.2	1523.5	1483.0	1431.0	1407.9	1324.1	1228.7	1202.6	1179.5	1165.0
10°	1562.5	1539.4	1509.1	1448.3	1325.5	1285.0	1201.2	1139.0	1123.1	1118.8	1123.1
12.5°	1552.5	1530.8	1488.8	1387.6	1215.6	1188.2	1139.0	1102.9	1100.0	1107.2	1146.2
15°	1535.0	1514.9	1465.7	1306.7	1155.0	1134.7	1100.0	1087.0	1102.9	1153.5	1270.6
17.5°	1517.7	1494.6	1433.9	1227.2	1108.7	1094.2	1069.6	1095.7	1185.3	1253.2	1292.2
20°	1494.6	1467.1	1397.8	1169.4	1075.4	1062.4	1050.8	1167.9	1235.8	1260.4	1282.1
22.5°	1467.1	1438.3	1348.6	1128.9	1040.8	1030.6	1037.9	1208.4	1235.8	1253.2	1272.0
25°	1431.0	1406.4	1290.8	1097.1	1013.3	1001.7	1029.1	1204.1	1220.0	1224.3	1261.9
27.5°	1397.8	1365.9	1230.1	1068.2	980.0	975.7	1036.4	1185.3	1196.8	1201.2	1241.6
30°	1357.3	1309.5	1162.1	1037.9	945.3	943.9	1037.9	1162.1	1159.2	1170.8	1211.3
32.5°	1315.4	1225.8	1085.5	1000.3	912.1	910.7	1027.7	1127.4	1124.5	1140.4	1170.8
35°	1276.3	1160.7	981.5	956.9	870.2	871.6	1003.2	1087.0	1088.4	1102.9	1121.6
37.5°	1235.8	1104.3	867.3	909.2	829.7	829.7	969.9	1049.4	1046.5	1050.8	1076.9
40°	1188.2	1016.2	766.1	847.0	792.1	787.8	929.5	1008.9	998.8	997.4	1033.5
42.5°	1137.6	919.3	690.9	764.6	748.7	743.0	880.3	959.8	941.0	945.3	991.6
45°	1082.6	893.3	633.1	646.1	704.0	699.6	826.8	903.4	890.4	902.0	949.7
47.5°	1027.7	841.2	614.3	536.3	656.2	654.8	767.5	848.5	841.2	852.8	903.4
50°	952.5	783.4	612.8	459.7	602.8	608.6	696.7	795.0	795.0	805.1	858.6
52.5°	855.8	712.6	556.5	416.3	540.6	557.9	634.5	748.7	751.6	761.8	809.5
55°	767.5	638.9	516.1	383.1	466.9	504.4	573.9	701.1	706.8	717.0	760.3
57.5°	686.6	532.0	507.4	344.0	399.0	435.1	520.3	654.8	657.7	666.4	708.2
60°	599.9	384.5	465.4	302.1	339.7	367.1	471.2	599.9	610.0	615.7	651.9
62.5°	501.5	279.0	422.1	273.2	310.7	316.5	430.7	547.8	560.8	565.2	586.9
65°	357.0	234.2	358.5	248.6	280.4	281.9	387.3	494.4	505.9	513.2	529.0
67.5°	241.4	190.8	273.2	225.5	257.3	258.7	345.5	432.2	448.1	453.9	464.0
70°	167.7	127.2	202.3	200.9	231.3	234.2	300.7	375.8	390.3	394.6	400.4
72.5°	122.8	102.7	167.7	180.6	203.8	206.7	254.4	312.2	326.7	331.0	333.9
75°	94.0	108.4	135.9	157.6	173.5	174.9	208.2	254.4	264.5	267.4	268.9
77.5°	75.2	101.2	99.8	127.2	141.6	138.8	163.3	196.6	205.2	205.2	205.2
80°	56.4	79.5	75.2	91.1	104.0	101.2	117.1	140.2	143.1	146.0	144.5
82.5°	41.9	50.6	50.6	57.8	69.4	66.5	78.1	91.1	91.1	91.1	94.0
85°	26.1	28.9	23.1	30.3	39.0	37.6	43.4	49.1	50.6	50.6	47.7
87.5°	15.9	13.0	7.3	11.5	17.3	17.3	20.2	21.7	20.2	20.2	20.2
90°	9.2	6.4	3.6	6.4	9.2	9.9	15.6	23.2	27.0	24.0	18.0
92.5°	62.5	38.4	14.2	38.4	62.5	68.6	96.4	133.5	152.0	133.2	95.7
95°	122.6	78.3	34.1	78.3	122.6	133.6	237.2	375.3	444.4	396.6	300.9
97.5°	137.0	98.0	58.9	98.0	137.0	146.7	319.5	549.9	665.0	634.8	574.3
100°	148.9	113.5	78.2	113.5	148.9	157.8	349.5	605.1	732.9	735.1	739.5
102.5°	160.5	127.5	94.5	127.5	160.5	168.8	363.3	622.5	752.1	790.7	867.7
105°	178.1	150.2	122.2	150.2	178.1	185.1	373.4	624.5	750.0	836.4	1009.1
107.5°	202.8	176.7	150.7	176.7	202.8	209.3	375.3	596.6	707.3	827.8	1068.8
110°	216.9	193.4	169.8	193.4	216.9	222.8	372.4	572.0	671.8	806.5	1075.9



TEST NUMBER: P935331

CATALOG NUMBER: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	233.4	211.1	188.7	211.1	233.4	239.1	372.6	550.5	639.5	777.3	1053.0
115°	258.4	237.7	217.0	237.7	258.4	263.6	376.0	525.9	600.8	733.6	999.2
117.5°	282.7	263.9	245.1	263.9	282.7	287.4	383.0	510.4	574.1	694.0	933.6
120°	296.8	279.1	261.4	279.1	296.8	301.3	388.6	505.2	563.5	673.0	892.0
122.5°	313.2	295.4	277.5	295.4	313.2	317.7	396.8	502.5	555.3	653.8	851.1
125°	334.5	318.2	302.0	318.2	334.5	338.6	407.8	500.2	546.4	630.2	797.7
127.5°	354.7	338.2	321.8	338.2	354.7	358.8	418.9	498.9	539.0	610.9	754.7
130°	367.9	350.2	332.5	350.2	367.9	372.3	426.9	499.8	536.1	600.2	728.2
132.5°	378.9	361.2	343.5	361.2	378.9	383.3	433.4	500.2	533.6	590.9	705.5
135°	392.1	376.0	359.9	376.0	392.1	396.1	440.6	499.8	529.4	577.4	673.3
137.5°	408.4	392.6	376.6	392.6	408.4	412.5	451.2	502.8	528.6	569.2	650.3
140°	419.8	405.1	390.4	405.1	419.8	423.5	457.7	503.3	526.1	561.2	631.3
142.5°	428.3	414.7	401.1	414.7	428.3	431.7	463.2	505.1	526.1	556.9	618.5
145°	441.1	429.3	417.4	429.3	441.1	444.1	470.3	505.2	522.6	547.8	598.1
147.5°	456.8	445.3	433.8	445.3	456.8	459.7	480.7	508.6	522.6	542.5	582.1
150°	465.2	454.8	444.4	454.8	465.2	467.9	486.2	510.5	522.6	539.4	572.8
152.5°	471.2	463.3	455.4	463.3	471.2	473.2	489.7	511.6	522.6	536.9	565.4
155°	483.5	477.6	471.8	477.6	483.5	485.0	497.5	514.3	522.6	534.0	556.7
157.5°	495.2	489.6	483.9	489.6	495.2	496.7	505.3	516.8	522.6	531.4	549.1
160°	500.9	496.5	492.1	496.5	500.9	502.0	508.9	518.0	522.6	530.2	545.4
162.5°	506.8	503.5	500.2	503.5	506.8	507.7	512.6	519.3	522.6	529.0	541.8
165°	515.0	512.0	509.1	512.0	515.0	515.8	518.1	521.1	522.6	527.3	536.4
167.5°	520.2	518.7	517.3	518.7	520.2	520.5	522.4	524.9	526.1	529.1	535.1
170°	525.5	524.0	522.6	524.0	525.5	525.8	525.9	526.1	526.1	529.1	535.1
172.5°	526.1	525.8	525.5	525.8	526.1	526.1	526.1	526.1	526.1	528.5	533.2
175°	529.4	529.4	529.4	529.4	529.4	529.4	528.3	526.8	526.1	527.7	530.7
177.5°	529.4	529.4	529.4	529.4	529.4	529.4	528.5	527.4	526.8	528.0	530.4
180°	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4



TEST NUMBER: P935331

CATALOG NUMBER: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1474.4	1470.0	1475.8	1459.9	1475.8	1470.0	1474.4	1484.5	1475.8	1481.6	1487.4
5°	1293.7	1286.5	1263.3	1244.5	1263.3	1286.5	1293.7	1324.1	1338.5	1364.6	1399.2
7.5°	1156.4	1150.6	1144.8	1133.3	1144.8	1150.6	1156.4	1165.0	1179.5	1202.6	1228.7
10°	1126.0	1127.4	1136.2	1134.7	1136.2	1127.4	1126.0	1123.1	1118.8	1123.1	1139.0
12.5°	1204.1	1217.0	1264.8	1261.9	1264.8	1217.0	1204.1	1146.2	1107.2	1100.0	1102.9
15°	1293.7	1298.0	1308.2	1309.5	1308.2	1298.0	1293.7	1270.6	1153.5	1102.9	1087.0
17.5°	1302.4	1303.8	1311.0	1311.0	1311.0	1303.8	1302.4	1292.2	1253.2	1185.3	1095.7
20°	1295.1	1298.0	1312.5	1315.4	1312.5	1298.0	1295.1	1282.1	1260.4	1235.8	1167.9
22.5°	1292.2	1298.0	1309.5	1308.2	1309.5	1298.0	1292.2	1272.0	1253.2	1235.8	1208.4
25°	1277.8	1277.8	1279.2	1280.7	1279.2	1277.8	1277.8	1261.9	1224.3	1220.0	1204.1
27.5°	1247.5	1250.4	1259.0	1257.5	1259.0	1250.4	1247.5	1241.6	1201.2	1196.8	1185.3
30°	1220.0	1217.0	1209.9	1204.1	1209.9	1217.0	1220.0	1211.3	1170.8	1159.2	1162.1
32.5°	1173.7	1166.5	1159.2	1155.0	1159.2	1166.5	1173.7	1170.8	1140.4	1124.5	1127.4
35°	1118.8	1120.2	1118.8	1114.5	1118.8	1120.2	1118.8	1121.6	1102.9	1088.4	1087.0
37.5°	1079.8	1082.6	1081.2	1075.4	1081.2	1082.6	1079.8	1076.9	1050.8	1046.5	1049.4
40°	1039.3	1040.8	1039.3	1034.9	1039.3	1040.8	1039.3	1033.5	997.4	998.8	1008.9
42.5°	1000.3	998.8	994.5	991.6	994.5	998.8	1000.3	991.6	945.3	941.0	959.8
45°	955.4	956.9	948.3	943.9	948.3	956.9	955.4	949.7	902.0	890.4	903.4
47.5°	910.7	910.7	903.4	899.1	903.4	910.7	910.7	903.4	852.8	841.2	848.5
50°	862.9	861.5	851.4	849.9	851.4	861.5	862.9	858.6	805.1	795.0	795.0
52.5°	808.0	808.0	809.5	812.4	809.5	808.0	808.0	809.5	761.8	751.6	748.7
55°	760.3	761.8	771.9	774.8	771.9	761.8	760.3	760.3	717.0	706.8	701.1
57.5°	711.1	711.1	718.4	718.4	718.4	711.1	711.1	708.2	666.4	657.7	654.8
60°	654.8	657.7	663.5	662.0	663.5	657.7	654.8	651.9	615.7	610.0	599.9
62.5°	595.5	598.4	599.9	597.0	599.9	598.4	595.5	586.9	565.2	560.8	547.8
65°	533.4	536.3	537.7	534.9	537.7	536.3	533.4	529.0	513.2	505.9	494.4
67.5°	469.8	468.3	466.9	472.7	466.9	468.3	469.8	464.0	453.9	448.1	432.2
70°	404.7	404.7	403.3	406.1	403.3	404.7	404.7	400.4	394.6	390.3	375.8
72.5°	335.3	333.9	339.7	335.3	339.7	333.9	335.3	333.9	331.0	326.7	312.2
75°	267.4	270.3	267.4	271.8	267.4	270.3	267.4	268.9	267.4	264.5	254.4
77.5°	203.8	206.7	203.8	203.8	203.8	206.7	203.8	205.2	205.2	205.2	196.6
80°	144.5	143.1	143.1	141.6	143.1	143.1	144.5	144.5	146.0	143.1	140.2
82.5°	92.5	91.1	91.1	94.0	91.1	91.1	92.5	94.0	91.1	91.1	91.1
85°	50.6	52.0	49.1	49.1	49.1	52.0	50.6	47.7	50.6	50.6	49.1
87.5°	18.8	17.3	17.3	17.3	17.3	17.3	18.8	20.2	20.2	20.2	21.7
90°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	24.0	27.0	23.2
92.5°	67.5	64.8	54.1	43.3	54.1	64.8	67.5	95.7	133.2	152.0	133.5
95°	229.2	221.0	188.5	156.0	188.5	221.0	229.2	300.9	396.6	444.4	375.3
97.5°	529.0	513.5	451.6	389.7	451.6	513.5	529.0	574.3	634.8	665.0	549.9
100°	742.8	724.4	650.7	577.0	650.7	724.4	742.8	739.5	735.1	732.9	605.1
102.5°	925.4	909.6	846.5	783.4	846.5	909.6	925.4	867.7	790.7	752.1	622.5
105°	1138.6	1130.2	1096.2	1062.3	1096.2	1130.2	1138.6	1009.1	836.4	750.0	624.5
107.5°	1249.5	1251.6	1259.8	1268.0	1259.8	1251.6	1249.5	1068.8	827.8	707.3	596.6
110°	1277.9	1286.7	1322.1	1357.5	1322.1	1286.7	1277.9	1075.9	806.5	671.8	572.0



TEST NUMBER: P935331

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1259.8	1273.3	1327.7	1382.0	1327.7	1273.3	1259.8	1053.0	777.3	639.5	550.5
115°	1198.3	1217.1	1292.5	1367.8	1292.5	1217.1	1198.3	999.2	733.6	600.8	525.9
117.5°	1113.4	1134.3	1217.8	1301.3	1217.8	1134.3	1113.4	933.6	694.0	574.1	510.4
120°	1056.2	1076.5	1157.7	1238.8	1157.7	1076.5	1056.2	892.0	673.0	563.5	505.2
122.5°	999.0	1019.0	1099.1	1179.1	1099.1	1019.0	999.0	851.1	653.8	555.3	502.5
125°	923.3	941.8	1015.5	1089.3	1015.5	941.8	923.3	797.7	630.2	546.4	500.2
127.5°	862.6	878.1	940.4	1002.6	940.4	878.1	862.6	754.7	610.9	539.0	498.9
130°	824.2	838.6	896.1	953.5	896.1	838.6	824.2	728.2	600.2	536.1	499.8
132.5°	791.5	804.4	855.8	907.3	855.8	804.4	791.5	705.5	590.9	533.6	500.2
135°	745.3	756.4	800.7	845.2	800.7	756.4	745.3	673.3	577.4	529.4	499.8
137.5°	711.2	720.3	756.7	793.0	756.7	720.3	711.2	650.3	569.2	528.6	502.8
140°	683.9	692.4	726.4	760.3	726.4	692.4	683.9	631.3	561.2	526.1	503.3
142.5°	664.7	672.0	701.2	730.5	701.2	672.0	664.7	618.5	556.9	526.1	505.1
145°	635.9	641.5	663.6	685.7	663.6	641.5	635.9	598.1	547.8	522.6	505.2
147.5°	611.8	616.4	634.7	653.0	634.7	616.4	611.8	582.1	542.5	522.6	508.6
150°	597.9	601.6	616.4	631.3	616.4	601.6	597.9	572.8	539.4	522.6	510.5
152.5°	586.9	589.7	600.9	612.2	600.9	589.7	586.9	565.4	536.9	522.6	511.6
155°	573.7	575.6	583.0	590.5	583.0	575.6	573.7	556.7	534.0	522.6	514.3
157.5°	562.4	563.6	568.9	574.1	568.9	563.6	562.4	549.1	531.4	522.6	516.8
160°	556.7	557.5	560.5	563.5	560.5	557.5	556.7	545.4	530.2	522.6	518.0
162.5°	551.3	552.0	554.9	557.7	554.9	552.0	551.3	541.8	529.0	522.6	519.3
165°	543.2	544.0	547.0	550.0	547.0	544.0	543.2	536.4	527.3	522.6	521.1
167.5°	539.6	540.0	541.2	542.5	541.2	540.0	539.6	535.1	529.1	526.1	524.9
170°	539.6	539.6	539.6	539.6	539.6	539.6	539.6	535.1	529.1	526.1	526.1
172.5°	536.8	536.6	535.5	534.3	535.5	536.6	536.8	533.2	528.5	526.1	526.1
175°	532.9	532.9	532.9	532.9	532.9	532.9	532.9	530.7	527.7	526.1	526.8
177.5°	532.2	531.9	530.7	529.4	530.7	531.9	532.2	530.4	528.0	526.8	527.4
180°	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4



TEST NUMBER: P935331

CATALOG NUMBER: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1509.1	1516.2	1520.6	1526.4	1540.8
5°	1451.2	1478.7	1487.4	1509.1	1535.0
7.5°	1324.1	1407.9	1431.0	1483.0	1523.5
10°	1201.2	1285.0	1325.5	1448.3	1509.1
12.5°	1139.0	1188.2	1215.6	1387.6	1488.8
15°	1100.0	1134.7	1155.0	1306.7	1465.7
17.5°	1069.6	1094.2	1108.7	1227.2	1433.9
20°	1050.8	1062.4	1075.4	1169.4	1397.8
22.5°	1037.9	1030.6	1040.8	1128.9	1348.6
25°	1029.1	1001.7	1013.3	1097.1	1290.8
27.5°	1036.4	975.7	980.0	1068.2	1230.1
30°	1037.9	943.9	945.3	1037.9	1162.1
32.5°	1027.7	910.7	912.1	1000.3	1085.5
35°	1003.2	871.6	870.2	956.9	981.5
37.5°	969.9	829.7	829.7	909.2	867.3
40°	929.5	787.8	792.1	847.0	766.1
42.5°	880.3	743.0	748.7	764.6	690.9
45°	826.8	699.6	704.0	646.1	633.1
47.5°	767.5	654.8	656.2	536.3	614.3
50°	696.7	608.6	602.8	459.7	612.8
52.5°	634.5	557.9	540.6	416.3	556.5
55°	573.9	504.4	466.9	383.1	516.1
57.5°	520.3	435.1	399.0	344.0	507.4
60°	471.2	367.1	339.7	302.1	465.4
62.5°	430.7	316.5	310.7	273.2	422.1
65°	387.3	281.9	280.4	248.6	358.5
67.5°	345.5	258.7	257.3	225.5	273.2
70°	300.7	234.2	231.3	200.9	202.3
72.5°	254.4	206.7	203.8	180.6	167.7
75°	208.2	174.9	173.5	157.6	135.9
77.5°	163.3	138.8	141.6	127.2	99.8
80°	117.1	101.2	104.0	91.1	75.2
82.5°	78.1	66.5	69.4	57.8	50.6
85°	43.4	37.6	39.0	30.3	23.1
87.5°	20.2	17.3	17.3	11.5	7.3
90°	15.6	9.9	9.2	6.4	3.6
92.5°	96.4	68.6	62.5	38.4	14.2
95°	237.2	133.6	122.6	78.3	34.1
97.5°	319.5	146.7	137.0	98.0	58.9
100°	349.5	157.8	148.9	113.5	78.2
102.5°	363.3	168.8	160.5	127.5	94.5
105°	373.4	185.1	178.1	150.2	122.2
107.5°	375.3	209.3	202.8	176.7	150.7
110°	372.4	222.8	216.9	193.4	169.8



TEST NUMBER: P935331

CATALOG NUMBER: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	372.6	239.1	233.4	211.1	188.7
115°	376.0	263.6	258.4	237.7	217.0
117.5°	383.0	287.4	282.7	263.9	245.1
120°	388.6	301.3	296.8	279.1	261.4
122.5°	396.8	317.7	313.2	295.4	277.5
125°	407.8	338.6	334.5	318.2	302.0
127.5°	418.9	358.8	354.7	338.2	321.8
130°	426.9	372.3	367.9	350.2	332.5
132.5°	433.4	383.3	378.9	361.2	343.5
135°	440.6	396.1	392.1	376.0	359.9
137.5°	451.2	412.5	408.4	392.6	376.6
140°	457.7	423.5	419.8	405.1	390.4
142.5°	463.2	431.7	428.3	414.7	401.1
145°	470.3	444.1	441.1	429.3	417.4
147.5°	480.7	459.7	456.8	445.3	433.8
150°	486.2	467.9	465.2	454.8	444.4
152.5°	489.7	473.2	471.2	463.3	455.4
155°	497.5	485.0	483.5	477.6	471.8
157.5°	505.3	496.7	495.2	489.6	483.9
160°	508.9	502.0	500.9	496.5	492.1
162.5°	512.6	507.7	506.8	503.5	500.2
165°	518.1	515.8	515.0	512.0	509.1
167.5°	522.4	520.5	520.2	518.7	517.3
170°	525.9	525.8	525.5	524.0	522.6
172.5°	526.1	526.1	526.1	525.8	525.5
175°	528.3	529.4	529.4	529.4	529.4
177.5°	528.5	529.4	529.4	529.4	529.4
180°	529.4	529.4	529.4	529.4	529.4



TEST NUMBER: P935331
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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	14.33	15.23	15.26	16.17	17.39	17.13	18.02	18.06	18.97	20.19
	3H	14.81	15.61	15.75	16.57	17.81	18.47	19.27	19.41	20.22	21.47
	4H	15.01	15.76	15.96	16.72	17.97	18.91	19.67	19.86	20.62	21.87
	6H	15.13	15.83	16.09	16.79	18.05	19.19	19.89	20.15	20.85	22.11
	8H	15.13	15.79	16.10	16.77	18.04	19.26	19.92	20.23	20.90	22.17
	12H	15.10	15.73	16.08	16.71	18.00	19.29	19.93	20.27	20.90	22.19
4H	2H	15.36	16.12	16.32	17.08	18.33	17.55	18.30	18.50	19.26	20.51
	3H	16.39	17.02	17.36	18.01	19.28	19.04	19.68	20.01	20.66	21.93
	4H	16.67	17.25	17.65	18.23	19.52	19.57	20.14	20.54	21.13	22.42
	6H	16.80	17.29	17.79	18.30	19.59	19.93	20.42	20.92	21.43	22.72
	8H	16.80	17.27	17.79	18.27	19.57	20.03	20.49	21.02	21.49	22.79
	12H	16.77	17.19	17.78	18.21	19.51	20.08	20.50	21.09	21.52	22.82
8H	4H	17.12	17.58	18.11	18.58	19.89	19.70	20.16	20.69	21.16	22.46
	6H	17.38	17.77	18.40	18.81	20.11	20.12	20.51	21.14	21.55	22.85
	8H	17.43	17.76	18.45	18.79	20.11	20.27	20.61	21.30	21.64	22.96
	12H	17.41	17.71	18.44	18.73	20.10	20.37	20.66	21.39	21.69	23.05
12H	4H	17.13	17.55	18.14	18.56	19.87	19.66	20.08	20.67	21.09	22.40
	6H	17.44	17.78	18.47	18.81	20.13	20.12	20.46	21.15	21.49	22.81
	8H	17.51	17.81	18.54	18.83	20.19	20.28	20.58	21.31	21.60	22.96