

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: P934931

Luminaire Tested: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934931
REPORT IS A COMBINATION OF REPORTS P933718 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-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: -

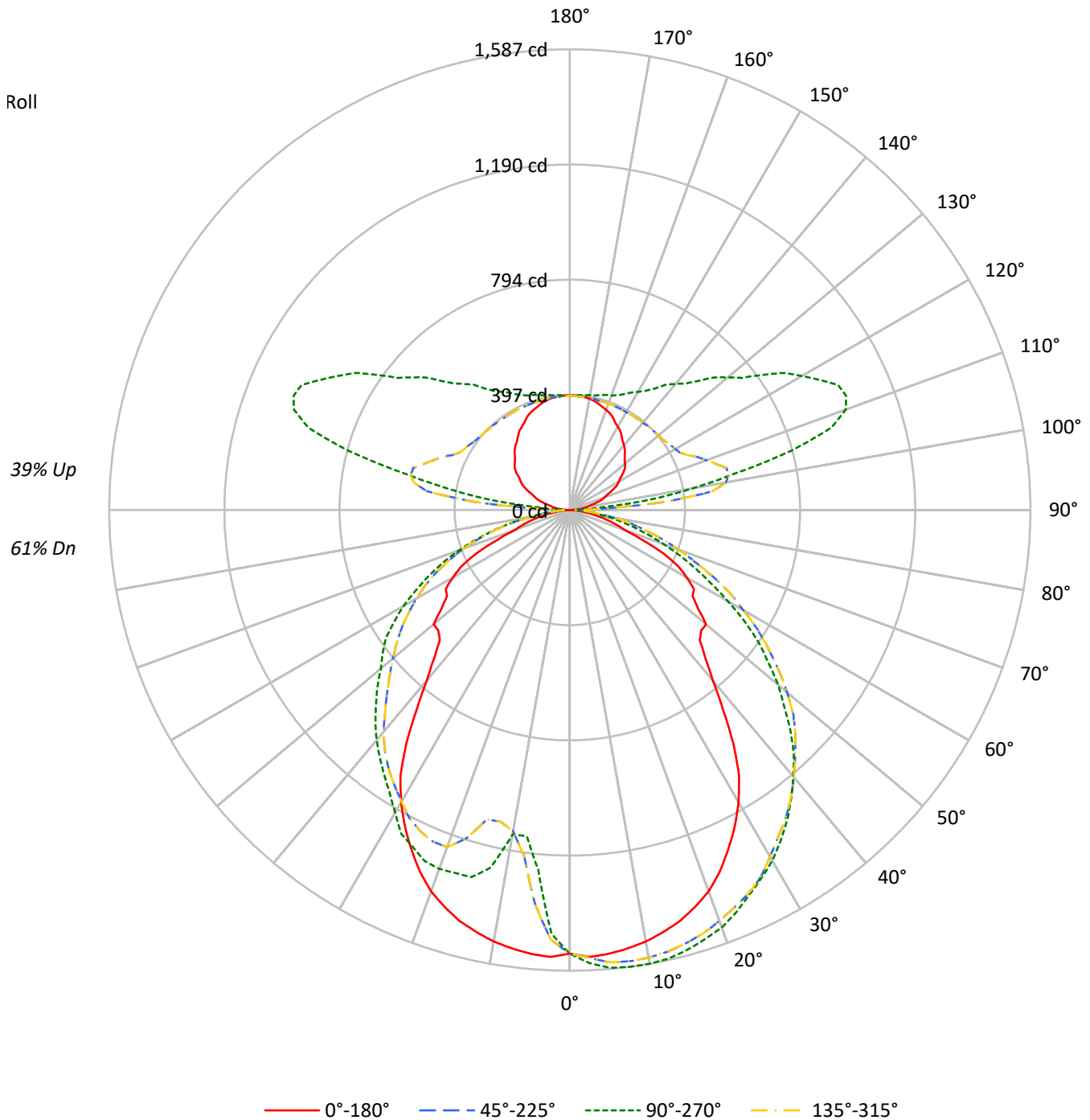
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6520.4 lumens
Efficiency: N/A
Efficacy: 105.2 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: Semi-Direct

Input Watts (W): 62
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

TEST NUMBER: P934931
CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-2700K

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15

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



TEST NUMBER: P934931

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	2.1
10°-20°	391.6	6.0
20°-30°	605.3	9.3
30°-40°	722.6	11.1
40°-50°	726.8	11.1
50°-60°	632.4	9.7
60°-70°	448.4	6.9
70°-80°	237.2	3.6
80°-90°	60.6	0.9
90°-100°	192.3	2.9
100°-110°	505.6	7.8
110°-120°	524.2	8.0
120°-130°	420.5	6.4
130°-140°	329.9	5.1
140°-150°	253.2	3.9
150°-160°	182.4	2.8
160°-170°	111.6	1.7
170°-180°	37.7	0.6
0°-30°	1134.8	17.4
0°-40°	1857.4	28.5
0°-60°	3216.7	49.3
0°-90°	3963.0	60.8
90°-120°	1222.1	18.7
90°-150°	2225.8	34.1
90°-180°	2557.0	39.2
0°-180°	6520.4	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°	3	10	3	10	3	3
95°	26	116	26	116	26	28
105°	91	792	91	792	91	97
115°	162	1019	162	1019	162	160
125°	225	812	225	812	225	200
135°	268	630	268	630	268	208
145°	311	511	311	511	311	195
155°	352	440	352	440	352	162
165°	379	410	379	410	379	107
175°	394	397	394	397	394	37
180°	394	394	394	394	394	



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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°	2.6	4.8	6.9	7.4	11.7	17.3	20.2	17.9	13.4	10.1	10.1
92.5°	10.6	28.6	46.5	51.1	71.8	99.5	113.3	99.3	71.3	50.3	48.3
95°	25.5	58.4	91.4	99.6	176.8	279.7	331.2	295.5	224.2	170.7	164.7
97.5°	44.0	73.0	102.1	109.3	238.1	409.8	495.7	473.1	428.1	394.3	382.7
100°	58.3	84.6	111.0	117.5	260.4	451.0	546.2	547.8	551.2	553.6	539.9
102.5°	70.5	95.1	119.6	125.7	270.7	464.0	560.6	589.3	646.7	689.7	677.9
105°	91.1	111.9	132.7	137.9	278.3	465.4	558.9	623.3	752.1	848.6	842.3
107.5°	112.2	131.7	151.1	156.0	279.7	444.7	527.2	616.9	796.5	931.2	932.7
110°	126.6	144.1	161.7	166.0	277.6	426.3	500.7	601.0	801.8	952.4	958.9



TEST NUMBER: P934931

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	140.6	157.3	174.0	178.2	277.7	410.3	476.6	579.4	784.8	938.9	949.0
115°	161.8	177.1	192.6	196.4	280.2	391.9	447.7	546.7	744.6	893.1	907.1
117.5°	182.7	196.7	210.7	214.2	285.4	380.3	427.8	517.2	695.8	829.8	845.3
120°	194.9	208.1	221.2	224.6	289.6	376.5	419.9	501.5	664.8	787.2	802.3
122.5°	206.8	220.1	233.3	236.7	295.7	374.4	413.8	487.3	634.3	744.5	759.5
125°	225.1	237.2	249.3	252.3	304.0	372.8	407.2	469.7	594.6	688.2	701.9
127.5°	239.9	252.1	264.4	267.4	312.2	371.9	401.7	455.3	562.5	642.9	654.5
130°	247.9	261.0	274.2	277.5	318.2	372.4	399.6	447.3	542.7	614.3	625.0
132.5°	256.1	269.2	282.4	285.7	323.0	372.8	397.7	440.4	525.9	589.9	599.5
135°	268.2	280.2	292.2	295.2	328.3	372.5	394.5	430.3	501.9	555.5	563.8
137.5°	280.7	292.5	304.4	307.4	336.3	374.8	394.0	424.2	484.7	530.1	536.8
140°	291.0	301.9	312.9	315.6	341.1	375.1	392.1	418.3	470.5	509.7	516.0
142.5°	298.9	309.0	319.1	321.7	345.2	376.5	392.1	415.1	461.0	495.4	500.9
145°	311.1	320.0	328.8	331.0	350.4	376.5	389.5	408.3	445.8	474.0	478.1
147.5°	323.3	331.8	340.5	342.6	358.2	379.1	389.5	404.3	433.8	455.9	459.4
150°	331.2	339.0	346.8	348.7	362.3	380.4	389.5	402.0	426.9	445.6	448.3
152.5°	339.4	345.3	351.2	352.7	365.0	381.3	389.5	400.2	421.4	437.4	439.4
155°	351.6	356.0	360.3	361.4	370.8	383.2	389.5	397.9	414.8	427.6	428.9
157.5°	360.6	364.9	369.2	370.2	376.6	385.2	389.5	396.1	409.2	419.1	420.1
160°	366.7	370.0	373.3	374.1	379.2	386.1	389.5	395.1	406.5	414.9	415.4
162.5°	372.8	375.3	377.8	378.4	382.1	387.0	389.5	394.3	403.7	410.9	411.4
165°	379.4	381.6	383.8	384.4	386.2	388.4	389.5	392.9	399.7	404.9	405.5
167.5°	385.5	386.5	387.6	387.9	389.3	391.2	392.1	394.4	398.9	402.2	402.5
170°	389.5	390.5	391.6	391.9	392.0	392.0	392.1	394.4	398.9	402.2	402.2
172.5°	391.6	391.9	392.0	392.1	392.1	392.1	392.1	393.9	397.4	400.1	399.9
175°	394.5	394.5	394.5	394.5	393.8	392.6	392.1	393.2	395.5	397.2	397.2
177.5°	394.5	394.5	394.5	394.5	393.9	393.1	392.6	393.5	395.3	396.7	396.4
180°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5



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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°	10.1	10.1	10.1	10.1	10.1	13.4	17.9	20.2	17.3	11.7	7.4
92.5°	40.3	32.3	40.3	48.3	50.3	71.3	99.3	113.3	99.5	71.8	51.1
95°	140.5	116.2	140.5	164.7	170.7	224.2	295.5	331.2	279.7	176.8	99.6
97.5°	336.6	290.5	336.6	382.7	394.3	428.1	473.1	495.7	409.8	238.1	109.3
100°	485.0	430.0	485.0	539.9	553.6	551.2	547.8	546.2	451.0	260.4	117.5
102.5°	630.9	583.8	630.9	677.9	689.7	646.7	589.3	560.6	464.0	270.7	125.7
105°	817.0	791.7	817.0	842.3	848.6	752.1	623.3	558.9	465.4	278.3	137.9
107.5°	938.9	945.0	938.9	932.7	931.2	796.5	616.9	527.2	444.7	279.7	156.0
110°	985.3	1011.7	985.3	958.9	952.4	801.8	601.0	500.7	426.3	277.6	166.0



TEST NUMBER: P934931

CATALOG NUMBER: SQ4-FA-075U-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°	989.5	1030.0	989.5	949.0	938.9	784.8	579.4	476.6	410.3	277.7	178.2
115°	963.3	1019.4	963.3	907.1	893.1	744.6	546.7	447.7	391.9	280.2	196.4
117.5°	907.6	969.9	907.6	845.3	829.8	695.8	517.2	427.8	380.3	285.4	214.2
120°	862.8	923.2	862.8	802.3	787.2	664.8	501.5	419.9	376.5	289.6	224.6
122.5°	819.1	878.8	819.1	759.5	744.5	634.3	487.3	413.8	374.4	295.7	236.7
125°	756.8	811.8	756.8	701.9	688.2	594.6	469.7	407.2	372.8	304.0	252.3
127.5°	700.8	747.2	700.8	654.5	642.9	562.5	455.3	401.7	371.9	312.2	267.4
130°	667.8	710.6	667.8	625.0	614.3	542.7	447.3	399.6	372.4	318.2	277.5
132.5°	637.9	676.2	637.9	599.5	589.9	525.9	440.4	397.7	372.8	323.0	285.7
135°	596.9	629.9	596.9	563.8	555.5	501.9	430.3	394.5	372.5	328.3	295.2
137.5°	563.9	591.0	563.9	536.8	530.1	484.7	424.2	394.0	374.8	336.3	307.4
140°	541.3	566.6	541.3	516.0	509.7	470.5	418.3	392.1	375.1	341.1	315.6
142.5°	522.6	544.3	522.6	500.9	495.4	461.0	415.1	392.1	376.5	345.2	321.7
145°	494.5	511.0	494.5	478.1	474.0	445.8	408.3	389.5	376.5	350.4	331.0
147.5°	473.0	486.7	473.0	459.4	455.9	433.8	404.3	389.5	379.1	358.2	342.6
150°	459.4	470.5	459.4	448.3	445.6	426.9	402.0	389.5	380.4	362.3	348.7
152.5°	447.8	456.2	447.8	439.4	437.4	421.4	400.2	389.5	381.3	365.0	352.7
155°	434.5	440.0	434.5	428.9	427.6	414.8	397.9	389.5	383.2	370.8	361.4
157.5°	424.0	427.8	424.0	420.1	419.1	409.2	396.1	389.5	385.2	376.6	370.2
160°	417.7	419.9	417.7	415.4	414.9	406.5	395.1	389.5	386.1	379.2	374.1
162.5°	413.6	415.7	413.6	411.4	410.9	403.7	394.3	389.5	387.0	382.1	378.4
165°	407.7	409.9	407.7	405.5	404.9	399.7	392.9	389.5	388.4	386.2	384.4
167.5°	403.4	404.3	403.4	402.5	402.2	398.9	394.4	392.1	391.2	389.3	387.9
170°	402.2	402.2	402.2	402.2	402.2	398.9	394.4	392.1	392.0	392.0	391.9
172.5°	399.0	398.2	399.0	399.9	400.1	397.4	393.9	392.1	392.1	392.1	392.1
175°	397.2	397.2	397.2	397.2	397.2	395.5	393.2	392.1	392.6	393.8	394.5
177.5°	395.5	394.5	395.5	396.4	396.7	395.3	393.5	392.6	393.1	393.9	394.5
180°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5



TEST NUMBER: P934931

CATALOG NUMBER: SQ4-FA-075U-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°	6.9	4.8	2.6	4.8	6.9	7.4	11.7	17.3	20.2	17.9	13.4
92.5°	46.5	28.6	10.6	28.6	46.5	51.1	71.8	99.5	113.3	99.3	71.3
95°	91.4	58.4	25.5	58.4	91.4	99.6	176.8	279.7	331.2	295.5	224.2
97.5°	102.1	73.0	44.0	73.0	102.1	109.3	238.1	409.8	495.7	473.1	428.1
100°	111.0	84.6	58.3	84.6	111.0	117.5	260.4	451.0	546.2	547.8	551.2
102.5°	119.6	95.1	70.5	95.1	119.6	125.7	270.7	464.0	560.6	589.3	646.7
105°	132.7	111.9	91.1	111.9	132.7	137.9	278.3	465.4	558.9	623.3	752.1
107.5°	151.1	131.7	112.2	131.7	151.1	156.0	279.7	444.7	527.2	616.9	796.5
110°	161.7	144.1	126.6	144.1	161.7	166.0	277.6	426.3	500.7	601.0	801.8



TEST NUMBER: P934931

CATALOG NUMBER: SQ4-FA-075U-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°	174.0	157.3	140.6	157.3	174.0	178.2	277.7	410.3	476.6	579.4	784.8
115°	192.6	177.1	161.8	177.1	192.6	196.4	280.2	391.9	447.7	546.7	744.6
117.5°	210.7	196.7	182.7	196.7	210.7	214.2	285.4	380.3	427.8	517.2	695.8
120°	221.2	208.1	194.9	208.1	221.2	224.6	289.6	376.5	419.9	501.5	664.8
122.5°	233.3	220.1	206.8	220.1	233.3	236.7	295.7	374.4	413.8	487.3	634.3
125°	249.3	237.2	225.1	237.2	249.3	252.3	304.0	372.8	407.2	469.7	594.6
127.5°	264.4	252.1	239.9	252.1	264.4	267.4	312.2	371.9	401.7	455.3	562.5
130°	274.2	261.0	247.9	261.0	274.2	277.5	318.2	372.4	399.6	447.3	542.7
132.5°	282.4	269.2	256.1	269.2	282.4	285.7	323.0	372.8	397.7	440.4	525.9
135°	292.2	280.2	268.2	280.2	292.2	295.2	328.3	372.5	394.5	430.3	501.9
137.5°	304.4	292.5	280.7	292.5	304.4	307.4	336.3	374.8	394.0	424.2	484.7
140°	312.9	301.9	291.0	301.9	312.9	315.6	341.1	375.1	392.1	418.3	470.5
142.5°	319.1	309.0	298.9	309.0	319.1	321.7	345.2	376.5	392.1	415.1	461.0
145°	328.8	320.0	311.1	320.0	328.8	331.0	350.4	376.5	389.5	408.3	445.8
147.5°	340.5	331.8	323.3	331.8	340.5	342.6	358.2	379.1	389.5	404.3	433.8
150°	346.8	339.0	331.2	339.0	346.8	348.7	362.3	380.4	389.5	402.0	426.9
152.5°	351.2	345.3	339.4	345.3	351.2	352.7	365.0	381.3	389.5	400.2	421.4
155°	360.3	356.0	351.6	356.0	360.3	361.4	370.8	383.2	389.5	397.9	414.8
157.5°	369.2	364.9	360.6	364.9	369.2	370.2	376.6	385.2	389.5	396.1	409.2
160°	373.3	370.0	366.7	370.0	373.3	374.1	379.2	386.1	389.5	395.1	406.5
162.5°	377.8	375.3	372.8	375.3	377.8	378.4	382.1	387.0	389.5	394.3	403.7
165°	383.8	381.6	379.4	381.6	383.8	384.4	386.2	388.4	389.5	392.9	399.7
167.5°	387.6	386.5	385.5	386.5	387.6	387.9	389.3	391.2	392.1	394.4	398.9
170°	391.6	390.5	389.5	390.5	391.6	391.9	392.0	392.0	392.1	394.4	398.9
172.5°	392.0	391.9	391.6	391.9	392.0	392.1	392.1	392.1	392.1	393.9	397.4
175°	394.5	394.5	394.5	394.5	394.5	394.5	393.8	392.6	392.1	393.2	395.5
177.5°	394.5	394.5	394.5	394.5	394.5	394.5	393.9	393.1	392.6	393.5	395.3
180°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5



TEST NUMBER: P934931

CATALOG NUMBER: SQ4-FA-075U-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°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4	17.9	20.2	17.3
92.5°	50.3	48.3	40.3	32.3	40.3	48.3	50.3	71.3	99.3	113.3	99.5
95°	170.7	164.7	140.5	116.2	140.5	164.7	170.7	224.2	295.5	331.2	279.7
97.5°	394.3	382.7	336.6	290.5	336.6	382.7	394.3	428.1	473.1	495.7	409.8
100°	553.6	539.9	485.0	430.0	485.0	539.9	553.6	551.2	547.8	546.2	451.0
102.5°	689.7	677.9	630.9	583.8	630.9	677.9	689.7	646.7	589.3	560.6	464.0
105°	848.6	842.3	817.0	791.7	817.0	842.3	848.6	752.1	623.3	558.9	465.4
107.5°	931.2	932.7	938.9	945.0	938.9	932.7	931.2	796.5	616.9	527.2	444.7
110°	952.4	958.9	985.3	1011.7	985.3	958.9	952.4	801.8	601.0	500.7	426.3



TEST NUMBER: P934931

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	938.9	949.0	989.5	1030.0	989.5	949.0	938.9	784.8	579.4	476.6	410.3
115°	893.1	907.1	963.3	1019.4	963.3	907.1	893.1	744.6	546.7	447.7	391.9
117.5°	829.8	845.3	907.6	969.9	907.6	845.3	829.8	695.8	517.2	427.8	380.3
120°	787.2	802.3	862.8	923.2	862.8	802.3	787.2	664.8	501.5	419.9	376.5
122.5°	744.5	759.5	819.1	878.8	819.1	759.5	744.5	634.3	487.3	413.8	374.4
125°	688.2	701.9	756.8	811.8	756.8	701.9	688.2	594.6	469.7	407.2	372.8
127.5°	642.9	654.5	700.8	747.2	700.8	654.5	642.9	562.5	455.3	401.7	371.9
130°	614.3	625.0	667.8	710.6	667.8	625.0	614.3	542.7	447.3	399.6	372.4
132.5°	589.9	599.5	637.9	676.2	637.9	599.5	589.9	525.9	440.4	397.7	372.8
135°	555.5	563.8	596.9	629.9	596.9	563.8	555.5	501.9	430.3	394.5	372.5
137.5°	530.1	536.8	563.9	591.0	563.9	536.8	530.1	484.7	424.2	394.0	374.8
140°	509.7	516.0	541.3	566.6	541.3	516.0	509.7	470.5	418.3	392.1	375.1
142.5°	495.4	500.9	522.6	544.3	522.6	500.9	495.4	461.0	415.1	392.1	376.5
145°	474.0	478.1	494.5	511.0	494.5	478.1	474.0	445.8	408.3	389.5	376.5
147.5°	455.9	459.4	473.0	486.7	473.0	459.4	455.9	433.8	404.3	389.5	379.1
150°	445.6	448.3	459.4	470.5	459.4	448.3	445.6	426.9	402.0	389.5	380.4
152.5°	437.4	439.4	447.8	456.2	447.8	439.4	437.4	421.4	400.2	389.5	381.3
155°	427.6	428.9	434.5	440.0	434.5	428.9	427.6	414.8	397.9	389.5	383.2
157.5°	419.1	420.1	424.0	427.8	424.0	420.1	419.1	409.2	396.1	389.5	385.2
160°	414.9	415.4	417.7	419.9	417.7	415.4	414.9	406.5	395.1	389.5	386.1
162.5°	410.9	411.4	413.6	415.7	413.6	411.4	410.9	403.7	394.3	389.5	387.0
165°	404.9	405.5	407.7	409.9	407.7	405.5	404.9	399.7	392.9	389.5	388.4
167.5°	402.2	402.5	403.4	404.3	403.4	402.5	402.2	398.9	394.4	392.1	391.2
170°	402.2	402.2	402.2	402.2	402.2	402.2	402.2	398.9	394.4	392.1	392.0
172.5°	400.1	399.9	399.0	398.2	399.0	399.9	400.1	397.4	393.9	392.1	392.1
175°	397.2	397.2	397.2	397.2	397.2	397.2	397.2	395.5	393.2	392.1	392.6
177.5°	396.7	396.4	395.5	394.5	395.5	396.4	396.7	395.3	393.5	392.6	393.1
180°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5



TEST NUMBER: P934931

CATALOG NUMBER: SQ4-FA-075U-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°	11.7	7.4	6.9	4.8	2.6
92.5°	71.8	51.1	46.5	28.6	10.6
95°	176.8	99.6	91.4	58.4	25.5
97.5°	238.1	109.3	102.1	73.0	44.0
100°	260.4	117.5	111.0	84.6	58.3
102.5°	270.7	125.7	119.6	95.1	70.5
105°	278.3	137.9	132.7	111.9	91.1
107.5°	279.7	156.0	151.1	131.7	112.2
110°	277.6	166.0	161.7	144.1	126.6



TEST NUMBER: P934931

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	277.7	178.2	174.0	157.3	140.6
115°	280.2	196.4	192.6	177.1	161.8
117.5°	285.4	214.2	210.7	196.7	182.7
120°	289.6	224.6	221.2	208.1	194.9
122.5°	295.7	236.7	233.3	220.1	206.8
125°	304.0	252.3	249.3	237.2	225.1
127.5°	312.2	267.4	264.4	252.1	239.9
130°	318.2	277.5	274.2	261.0	247.9
132.5°	323.0	285.7	282.4	269.2	256.1
135°	328.3	295.2	292.2	280.2	268.2
137.5°	336.3	307.4	304.4	292.5	280.7
140°	341.1	315.6	312.9	301.9	291.0
142.5°	345.2	321.7	319.1	309.0	298.9
145°	350.4	331.0	328.8	320.0	311.1
147.5°	358.2	342.6	340.5	331.8	323.3
150°	362.3	348.7	346.8	339.0	331.2
152.5°	365.0	352.7	351.2	345.3	339.4
155°	370.8	361.4	360.3	356.0	351.6
157.5°	376.6	370.2	369.2	364.9	360.6
160°	379.2	374.1	373.3	370.0	366.7
162.5°	382.1	378.4	377.8	375.3	372.8
165°	386.2	384.4	383.8	381.6	379.4
167.5°	389.3	387.9	387.6	386.5	385.5
170°	392.0	391.9	391.6	390.5	389.5
172.5°	392.1	392.1	392.0	391.9	391.6
175°	393.8	394.5	394.5	394.5	394.5
177.5°	393.9	394.5	394.5	394.5	394.5
180°	394.5	394.5	394.5	394.5	394.5



TEST NUMBER: P934931
 CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-2700K

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	14.95	15.91	15.80	16.79	17.90	17.74	18.71	18.60	19.59	20.70
	3H	15.43	16.30	16.30	17.19	18.32	19.09	19.95	19.96	20.84	21.98
	4H	15.63	16.45	16.51	17.34	18.49	19.53	20.35	20.42	21.24	22.39
	6H	15.75	16.51	16.65	17.41	18.57	19.81	20.57	20.71	21.47	22.63
	8H	15.76	16.48	16.66	17.40	18.55	19.89	20.60	20.79	21.53	22.68
	12H	15.73	16.42	16.64	17.33	18.51	19.92	20.61	20.84	21.52	22.71
4H	2H	15.98	16.80	16.88	17.70	18.84	18.17	18.99	19.06	19.88	21.03
	3H	17.02	17.70	17.92	18.63	19.79	19.67	20.36	20.58	21.28	22.44
	4H	17.30	17.92	18.22	18.85	20.03	20.20	20.82	21.11	21.74	22.93
	6H	17.43	17.97	18.36	18.92	20.10	20.56	21.10	21.49	22.05	23.23
	8H	17.44	17.94	18.37	18.88	20.08	20.67	21.17	21.60	22.11	23.31
	12H	17.41	17.87	18.36	18.82	20.03	20.72	21.18	21.67	22.13	23.34
8H	4H	17.76	18.26	18.69	19.20	20.40	20.33	20.83	21.26	21.78	22.98
	6H	18.02	18.44	18.98	19.42	20.62	20.77	21.18	21.72	22.16	23.36
	8H	18.07	18.43	19.03	19.41	20.63	20.91	21.28	21.88	22.25	23.47
	12H	18.06	18.38	19.03	19.35	20.61	21.01	21.33	21.98	22.30	23.57
12H	4H	17.77	18.22	18.72	19.18	20.39	20.30	20.75	21.25	21.71	22.92
	6H	18.08	18.45	19.05	19.42	20.64	20.76	21.13	21.73	22.10	23.32
	8H	18.16	18.48	19.13	19.44	20.71	20.92	21.25	21.90	22.21	23.48