

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: P935332

Luminaire Tested: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935332
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-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

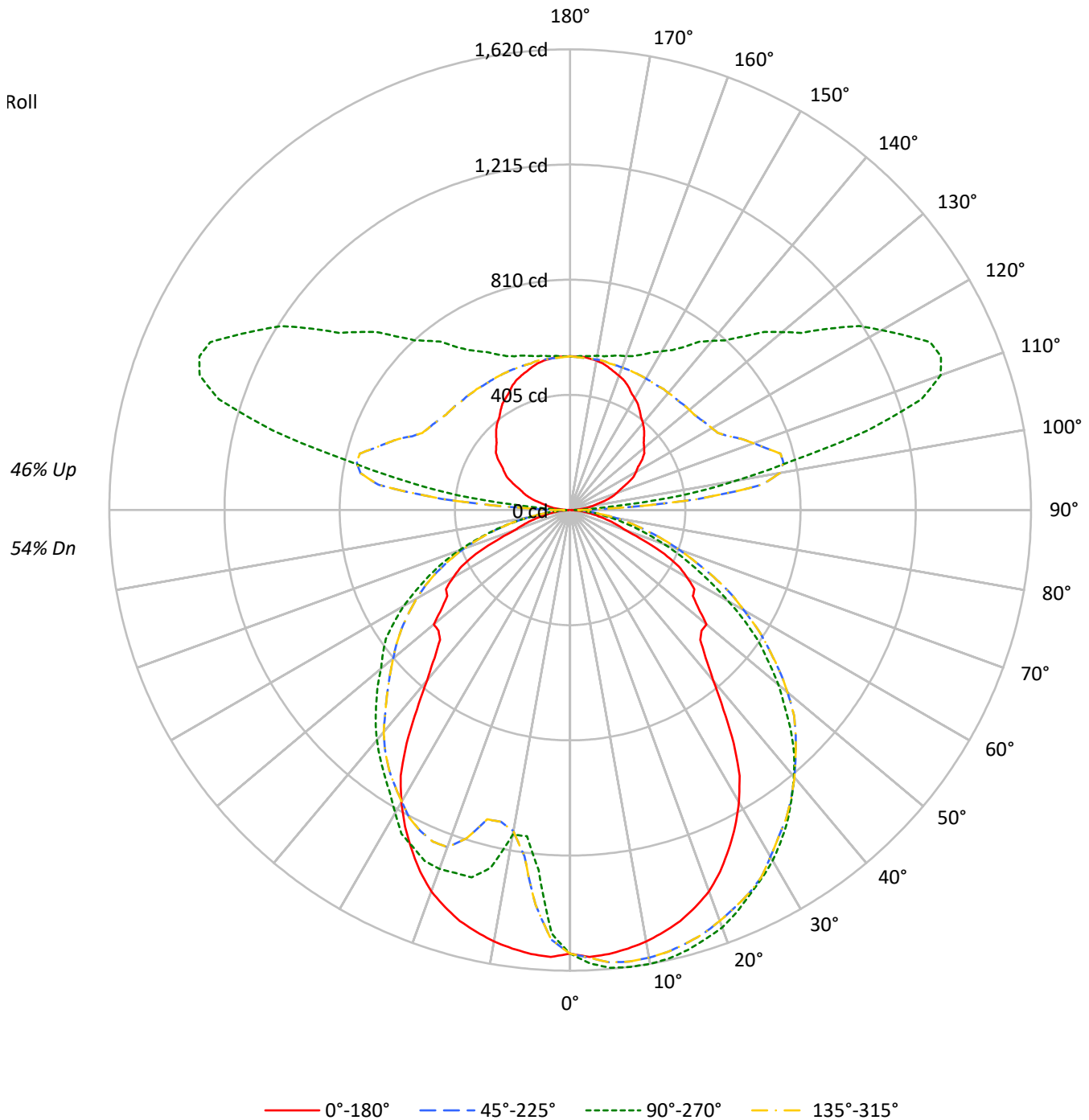
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7550.1 lumens
Efficiency: N/A
Efficacy: 109.7 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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CATALOG NUMBER: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-3000K

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	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°	14475	14475	14475	14475
5°	14566	14612	14566	11489
10°	14453	14393	14453	10290
15°	14280	14081	14280	11758
20°	13965	13712	13965	11782
25°	13337	13172	13337	11532
30°	12532	12725	12532	10985
35°	11156	12160	11156	10382
40°	9279	11494	9279	9927
45°	8276	10714	8276	9404
50°	8771	9784	8771	8879
55°	8230	8782	8230	8574
60°	8453	7459	8453	7853
65°	7627	6166	7627	6893
70°	5245	4914	5245	5777
75°	4548	3632	4548	4350
80°	3590	2401	3590	2614
85°	1954	1271	1954	1079

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12707 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	1.9
10°-20°	399.8	5.3
20°-30°	618.0	8.2
30°-40°	737.8	9.8
40°-50°	742.1	9.8
50°-60°	645.7	8.6
60°-70°	457.8	6.1
70°-80°	242.2	3.2
80°-90°	62.4	0.8
90°-100°	263.4	3.5
100°-110°	692.6	9.2
110°-120°	718.2	9.5
120°-130°	576.0	7.6
130°-140°	452.0	6.0
140°-150°	346.9	4.6
150°-160°	249.8	3.3
160°-170°	152.9	2.0
170°-180°	51.6	0.7
0°-30°	1158.6	15.3
0°-40°	1896.4	25.1
0°-60°	3284.1	43.5
0°-90°	4046.5	53.6
90°-120°	1674.2	22.2
90°-150°	3049.1	40.4
90°-180°	3504.0	46.4
0°-180°	7550.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1560	1560	1560	1560	1560	
5°	1567	1616	1567	1271	1567	149
15°	1496	1601	1496	1337	1496	421
25°	1318	1493	1318	1308	1318	605
35°	1002	1333	1002	1138	1002	620
45°	646	1098	646	964	646	518
55°	527	810	527	791	527	484
65°	366	488	366	546	366	350
75°	139	232	139	278	139	146
85°	24	59	24	50	24	32
90°	4	14	4	14	4	4
95°	35	159	35	159	35	39
105°	125	1084	125	1084	125	132
115°	222	1396	222	1396	222	219
125°	308	1112	308	1112	308	274
135°	368	863	368	863	368	284
145°	426	700	426	700	426	267
155°	482	603	482	603	482	221
165°	520	562	520	562	520	147
175°	540	544	540	544	540	51
180°	540	540	540	540	540	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9
2.5°	1573.1	1573.1	1582.0	1585.0	1585.0	1580.6	1576.1	1580.6	1593.8	1598.3	1596.8
5°	1567.2	1579.1	1595.3	1598.3	1601.2	1599.7	1596.8	1599.7	1614.5	1617.4	1618.9
7.5°	1555.4	1577.6	1598.3	1602.7	1607.1	1602.7	1601.2	1604.2	1618.9	1621.9	1621.9
10°	1540.7	1571.7	1595.3	1598.3	1602.7	1598.3	1598.3	1604.2	1618.9	1621.9	1623.4
12.5°	1520.0	1562.9	1585.0	1587.9	1593.8	1592.3	1590.9	1596.8	1611.5	1614.5	1614.5
15°	1496.4	1546.6	1567.2	1570.2	1580.6	1577.6	1577.6	1583.5	1599.7	1604.2	1602.7
17.5°	1464.0	1526.0	1549.5	1554.0	1561.4	1559.9	1561.4	1567.2	1582.0	1585.0	1586.4
20°	1427.1	1497.9	1526.0	1530.3	1537.7	1537.7	1537.7	1545.2	1559.9	1565.8	1565.8
22.5°	1376.9	1468.4	1497.9	1500.9	1509.7	1509.7	1512.6	1523.0	1536.3	1537.7	1537.7
25°	1317.8	1435.9	1461.0	1469.9	1478.7	1483.2	1487.6	1493.4	1497.9	1496.4	1497.9
27.5°	1255.9	1394.6	1427.1	1432.9	1444.8	1449.2	1455.1	1456.6	1458.0	1462.5	1459.5
30°	1186.5	1337.0	1385.7	1391.7	1410.9	1413.7	1407.9	1410.9	1418.2	1421.2	1424.1
32.5°	1108.3	1251.5	1342.9	1356.2	1374.0	1365.1	1363.6	1368.0	1379.8	1379.8	1382.8
35°	1002.1	1185.0	1303.1	1314.9	1328.2	1317.8	1323.7	1325.2	1332.6	1337.0	1335.6
37.5°	885.5	1127.5	1261.7	1270.6	1280.9	1267.7	1276.6	1280.9	1286.9	1283.9	1283.9
40°	782.1	1037.5	1213.1	1219.0	1227.8	1217.5	1226.3	1229.3	1232.3	1229.3	1227.8
42.5°	705.4	938.6	1161.5	1168.8	1162.9	1170.3	1173.2	1179.2	1174.7	1168.8	1168.8
45°	646.4	912.1	1105.3	1114.2	1105.3	1117.2	1121.6	1121.6	1108.3	1105.3	1103.9
47.5°	627.2	858.9	1049.2	1049.2	1044.9	1059.6	1066.9	1056.6	1043.4	1038.9	1038.9
50°	625.7	799.8	972.5	966.6	987.3	1005.0	997.6	987.3	976.9	960.7	960.7
52.5°	568.1	727.5	873.7	895.8	928.3	938.6	926.8	916.4	898.7	891.4	885.5
55°	526.9	652.3	783.6	827.9	861.8	875.1	853.0	842.6	816.1	811.7	808.7
57.5°	518.0	543.1	701.0	757.1	798.3	797.0	783.6	764.4	742.3	737.9	736.4
60°	475.2	392.6	612.4	678.9	721.6	717.2	705.4	687.7	667.0	664.1	661.2
62.5°	431.0	284.8	512.1	587.3	647.8	646.4	636.1	609.5	594.7	587.3	581.5
65°	366.0	239.1	364.5	488.5	575.5	578.5	556.4	537.2	521.0	512.1	510.6
67.5°	278.9	194.8	246.4	407.3	506.2	503.3	475.2	466.4	445.7	441.2	432.4
70°	206.6	129.8	171.2	330.6	438.3	431.0	408.8	398.4	379.2	369.0	363.0
72.5°	171.2	104.8	125.4	256.8	369.0	360.1	340.9	329.1	312.9	304.0	298.1
75°	138.7	110.7	95.9	190.4	299.5	293.7	276.0	264.1	250.9	239.1	240.5
77.5°	101.9	103.3	76.7	140.2	237.6	228.7	218.4	203.6	197.8	185.9	185.9
80°	76.7	81.2	57.6	95.9	171.2	171.2	162.4	152.0	141.7	135.8	135.8
82.5°	51.6	51.6	42.8	60.5	116.6	112.1	106.2	103.3	97.4	94.4	94.4
85°	23.6	29.5	26.6	36.9	63.5	66.4	66.4	63.5	62.0	59.0	60.5
87.5°	7.4	13.3	16.2	20.7	32.4	33.9	35.4	35.4	35.4	36.9	36.9
90°	3.7	6.5	9.4	10.1	16.0	23.7	27.6	24.5	18.4	13.8	13.8
92.5°	14.5	39.2	63.8	70.0	98.5	136.3	155.2	136.0	97.7	68.9	66.2
95°	34.8	80.0	125.1	136.4	242.2	383.2	453.7	404.9	307.2	234.0	225.7
97.5°	60.2	100.0	139.9	149.8	326.2	561.4	679.0	648.1	586.4	540.1	524.3
100°	79.8	115.9	152.0	161.1	356.8	617.8	748.3	750.6	755.0	758.4	739.6
102.5°	96.4	130.2	163.9	172.3	370.9	635.5	767.9	807.2	885.9	944.8	928.7
105°	124.8	153.3	181.8	189.0	381.3	637.5	765.7	853.9	1030.2	1162.5	1153.9
107.5°	153.8	180.4	207.0	213.6	383.2	609.1	722.1	845.2	1091.2	1275.7	1277.8
110°	173.4	197.4	221.4	227.4	380.2	584.0	685.9	823.4	1098.4	1304.7	1313.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	192.6	215.5	238.3	244.1	380.4	562.0	652.9	793.6	1075.0	1286.2	1300.0
115°	221.6	242.7	263.8	269.1	383.9	536.9	613.4	749.0	1020.1	1223.5	1242.6
117.5°	250.3	269.5	288.6	293.4	391.0	521.1	586.2	708.5	953.2	1136.8	1158.1
120°	266.9	285.0	303.0	307.6	396.8	515.8	575.3	687.1	910.7	1078.4	1099.1
122.5°	283.3	301.5	319.8	324.3	405.1	513.0	566.9	667.5	868.9	1019.9	1040.3
125°	308.4	324.9	341.5	345.7	416.4	510.7	557.8	643.4	814.4	942.7	961.5
127.5°	328.6	345.3	362.2	366.3	427.6	509.4	550.3	623.7	770.5	880.7	896.5
130°	339.5	357.5	375.6	380.1	435.8	510.2	547.4	612.8	743.5	841.5	856.2
132.5°	350.7	368.8	386.8	391.4	442.5	510.7	544.8	603.3	720.3	808.1	821.3
135°	367.5	383.9	400.4	404.4	449.8	510.2	540.5	589.5	687.4	760.9	772.3
137.5°	384.5	400.8	417.0	421.1	460.6	513.4	539.7	581.1	664.0	726.1	735.4
140°	398.6	413.6	428.6	432.4	467.3	513.9	537.2	572.9	644.5	698.2	706.9
142.5°	409.5	423.4	437.2	440.7	472.9	515.7	537.2	568.6	631.4	678.6	686.1
145°	426.2	438.3	450.3	453.4	480.1	515.8	533.6	559.3	610.7	649.2	654.9
147.5°	442.9	454.7	466.4	469.3	490.8	519.3	533.6	553.8	594.3	624.6	629.3
150°	453.7	464.4	475.0	477.7	496.4	521.2	533.6	550.7	584.8	610.4	614.2
152.5°	465.0	473.0	481.1	483.1	499.9	522.3	533.6	548.2	577.3	599.2	602.1
155°	481.7	487.6	493.7	495.1	508.0	525.1	533.6	545.2	568.4	585.7	587.7
157.5°	494.0	499.8	505.6	507.1	515.9	527.7	533.6	542.6	560.6	574.1	575.5
160°	502.4	506.9	511.4	512.5	519.6	528.9	533.6	541.4	556.8	568.4	569.2
162.5°	510.7	514.1	517.5	518.3	523.4	530.2	533.6	540.1	553.1	562.9	563.6
165°	519.7	522.8	525.8	526.6	529.0	532.0	533.6	538.3	547.6	554.6	555.4
167.5°	528.1	529.6	531.1	531.4	533.3	535.9	537.2	540.2	546.3	551.0	551.3
170°	533.6	535.0	536.5	536.8	536.9	537.1	537.2	540.2	546.3	551.0	551.0
172.5°	536.5	536.8	537.1	537.2	537.2	537.2	537.2	539.6	544.4	548.1	547.8
175°	540.5	540.5	540.5	540.5	539.4	537.9	537.2	538.7	541.8	544.1	544.1
177.5°	540.5	540.5	540.5	540.5	539.6	538.5	537.9	539.1	541.5	543.4	543.0
180°	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9
2.5°	1599.7	1595.3	1599.7	1596.8	1598.3	1593.8	1580.6	1576.1	1580.6	1585.0	1585.0
5°	1618.9	1616.0	1618.9	1618.9	1617.4	1614.5	1599.7	1596.8	1599.7	1601.2	1598.3
7.5°	1624.8	1620.4	1624.8	1621.9	1621.9	1618.9	1604.2	1601.2	1602.7	1607.1	1602.7
10°	1624.8	1620.4	1624.8	1623.4	1621.9	1618.9	1604.2	1598.3	1598.3	1602.7	1598.3
12.5°	1617.4	1614.5	1617.4	1614.5	1614.5	1611.5	1596.8	1590.9	1592.3	1593.8	1587.9
15°	1605.6	1601.2	1605.6	1602.7	1604.2	1599.7	1583.5	1577.6	1577.6	1580.6	1570.2
17.5°	1587.9	1582.0	1587.9	1586.4	1585.0	1582.0	1567.2	1561.4	1559.9	1561.4	1554.0
20°	1567.2	1562.9	1567.2	1565.8	1565.8	1559.9	1545.2	1537.7	1537.7	1537.7	1530.3
22.5°	1534.8	1530.3	1534.8	1537.7	1537.7	1536.3	1523.0	1512.6	1509.7	1509.7	1500.9
25°	1497.9	1493.4	1497.9	1497.9	1496.4	1497.9	1493.4	1487.6	1483.2	1478.7	1469.9
27.5°	1462.5	1459.5	1462.5	1459.5	1462.5	1458.0	1456.6	1455.1	1449.2	1444.8	1432.9
30°	1427.1	1424.1	1427.1	1424.1	1421.2	1418.2	1410.9	1407.9	1413.7	1410.9	1391.7
32.5°	1382.8	1379.8	1382.8	1382.8	1379.8	1379.8	1368.0	1363.6	1365.1	1374.0	1356.2
35°	1337.0	1332.6	1337.0	1335.6	1337.0	1332.6	1325.2	1323.7	1317.8	1328.2	1314.9
37.5°	1283.9	1279.4	1283.9	1283.9	1283.9	1286.9	1280.9	1276.6	1267.7	1280.9	1270.6
40°	1229.3	1223.4	1229.3	1227.8	1229.3	1232.3	1229.3	1226.3	1217.5	1227.8	1219.0
42.5°	1167.3	1165.8	1167.3	1168.8	1168.8	1174.7	1179.2	1173.2	1170.3	1162.9	1168.8
45°	1100.9	1098.0	1100.9	1103.9	1105.3	1108.3	1121.6	1121.6	1117.2	1105.3	1114.2
47.5°	1030.0	1022.7	1030.0	1038.9	1038.9	1043.4	1056.6	1066.9	1059.6	1044.9	1049.2
50°	954.8	956.3	954.8	960.7	960.7	976.9	987.3	997.6	1005.0	987.3	966.6
52.5°	881.0	879.5	881.0	885.5	891.4	898.7	916.4	926.8	938.6	928.3	895.8
55°	807.2	810.2	807.2	808.7	811.7	816.1	842.6	853.0	875.1	861.8	827.9
57.5°	733.5	729.0	733.5	736.4	737.9	742.3	764.4	783.6	797.0	798.3	757.1
60°	647.8	642.0	647.8	661.2	664.1	667.0	687.7	705.4	717.2	721.6	678.9
62.5°	572.6	562.3	572.6	581.5	587.3	594.7	609.5	636.1	646.4	647.8	587.3
65°	492.9	488.5	492.9	510.6	512.1	521.0	537.2	556.4	578.5	575.5	488.5
67.5°	420.6	420.6	420.6	432.4	441.2	445.7	466.4	475.2	503.3	506.2	407.3
70°	354.2	352.7	354.2	363.0	369.0	379.2	398.4	408.8	431.0	438.3	330.6
72.5°	290.7	289.3	290.7	298.1	304.0	312.9	329.1	340.9	360.1	369.0	256.8
75°	234.7	231.7	234.7	240.5	239.1	250.9	264.1	276.0	293.7	299.5	190.4
77.5°	180.1	180.1	180.1	185.9	185.9	197.8	203.6	218.4	228.7	237.6	140.2
80°	134.3	132.8	134.3	135.8	135.8	141.7	152.0	162.4	171.2	171.2	95.9
82.5°	94.4	91.5	94.4	94.4	94.4	97.4	103.3	106.2	112.1	116.6	60.5
85°	59.0	59.0	59.0	60.5	59.0	62.0	63.5	66.4	66.4	63.5	36.9
87.5°	38.4	36.9	38.4	36.9	36.9	35.4	35.4	35.4	33.9	32.4	20.7
90°	13.8	13.8	13.8	13.8	13.8	18.4	24.5	27.6	23.7	16.0	10.1
92.5°	55.2	44.2	55.2	66.2	68.9	97.7	136.0	155.2	136.3	98.5	70.0
95°	192.5	159.2	192.5	225.7	234.0	307.2	404.9	453.7	383.2	242.2	136.4
97.5°	461.0	397.9	461.0	524.3	540.1	586.4	648.1	679.0	561.4	326.2	149.8
100°	664.3	589.1	664.3	739.6	758.4	755.0	750.6	748.3	617.8	356.8	161.1
102.5°	864.3	799.8	864.3	928.7	944.8	885.9	807.2	767.9	635.5	370.9	172.3
105°	1119.2	1084.5	1119.2	1153.9	1162.5	1030.2	853.9	765.7	637.5	381.3	189.0
107.5°	1286.2	1294.5	1286.2	1277.8	1275.7	1091.2	845.2	722.1	609.1	383.2	213.6
110°	1349.8	1385.9	1349.8	1313.7	1304.7	1098.4	823.4	685.9	584.0	380.2	227.4



TEST NUMBER: P935332

CATALOG NUMBER: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1355.5	1411.0	1355.5	1300.0	1286.2	1075.0	793.6	652.9	562.0	380.4	244.1
115°	1319.6	1396.5	1319.6	1242.6	1223.5	1020.1	749.0	613.4	536.9	383.9	269.1
117.5°	1243.3	1328.6	1243.3	1158.1	1136.8	953.2	708.5	586.2	521.1	391.0	293.4
120°	1182.0	1264.8	1182.0	1099.1	1078.4	910.7	687.1	575.3	515.8	396.8	307.6
122.5°	1122.1	1203.8	1122.1	1040.3	1019.9	868.9	667.5	566.9	513.0	405.1	324.3
125°	1036.8	1112.1	1036.8	961.5	942.7	814.4	643.4	557.8	510.7	416.4	345.7
127.5°	960.1	1023.6	960.1	896.5	880.7	770.5	623.7	550.3	509.4	427.6	366.3
130°	914.9	973.5	914.9	856.2	841.5	743.5	612.8	547.4	510.2	435.8	380.1
132.5°	873.8	926.4	873.8	821.3	808.1	720.3	603.3	544.8	510.7	442.5	391.4
135°	817.5	862.9	817.5	772.3	760.9	687.4	589.5	540.5	510.2	449.8	404.4
137.5°	772.5	809.6	772.5	735.4	726.1	664.0	581.1	539.7	513.4	460.6	421.1
140°	741.6	776.2	741.6	706.9	698.2	644.5	572.9	537.2	513.9	467.3	432.4
142.5°	715.9	745.8	715.9	686.1	678.6	631.4	568.6	537.2	515.7	472.9	440.7
145°	677.5	700.1	677.5	654.9	649.2	610.7	559.3	533.6	515.8	480.1	453.4
147.5°	648.0	666.7	648.0	629.3	624.6	594.3	553.8	533.6	519.3	490.8	469.3
150°	629.3	644.5	629.3	614.2	610.4	584.8	550.7	533.6	521.2	496.4	477.7
152.5°	613.5	625.0	613.5	602.1	599.2	577.3	548.2	533.6	522.3	499.9	483.1
155°	595.3	602.8	595.3	587.7	585.7	568.4	545.2	533.6	525.1	508.0	495.1
157.5°	580.9	586.2	580.9	575.5	574.1	560.6	542.6	533.6	527.7	515.9	507.1
160°	572.2	575.3	572.2	569.2	568.4	556.8	541.4	533.6	528.9	519.6	512.5
162.5°	566.6	569.4	566.6	563.6	562.9	553.1	540.1	533.6	530.2	523.4	518.3
165°	558.5	561.5	558.5	555.4	554.6	547.6	538.3	533.6	532.0	529.0	526.6
167.5°	552.5	553.8	552.5	551.3	551.0	546.3	540.2	537.2	535.9	533.3	531.4
170°	551.0	551.0	551.0	551.0	551.0	546.3	540.2	537.2	537.1	536.9	536.8
172.5°	546.7	545.5	546.7	547.8	548.1	544.4	539.6	537.2	537.2	537.2	537.2
175°	544.1	544.1	544.1	544.1	544.1	541.8	538.7	537.2	537.9	539.4	540.5
177.5°	541.8	540.5	541.8	543.0	543.4	541.5	539.1	537.9	538.5	539.6	540.5
180°	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5



TEST NUMBER: P935332

CATALOG NUMBER: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9
2.5°	1582.0	1573.1	1573.1	1558.4	1552.5	1548.0	1540.7	1518.6	1512.6	1506.8	1515.6
5°	1595.3	1579.1	1567.2	1540.7	1518.6	1509.7	1481.7	1428.6	1393.2	1366.6	1351.8
7.5°	1598.3	1577.6	1555.4	1514.1	1461.0	1437.4	1351.8	1254.4	1227.8	1204.2	1189.5
10°	1595.3	1571.7	1540.7	1478.7	1353.3	1312.0	1226.3	1162.9	1146.6	1142.3	1146.6
12.5°	1585.0	1562.9	1520.0	1416.7	1241.1	1213.1	1162.9	1126.0	1123.1	1130.4	1170.3
15°	1567.2	1546.6	1496.4	1334.1	1179.2	1158.5	1123.1	1109.8	1126.0	1177.7	1297.2
17.5°	1549.5	1526.0	1464.0	1252.9	1131.9	1117.2	1092.0	1118.6	1210.1	1279.4	1319.3
20°	1526.0	1497.9	1427.1	1193.9	1098.0	1084.7	1072.9	1192.4	1261.7	1286.9	1309.0
22.5°	1497.9	1468.4	1376.9	1152.6	1062.6	1052.2	1059.6	1233.8	1261.7	1279.4	1298.6
25°	1461.0	1435.9	1317.8	1120.1	1034.5	1022.7	1050.7	1229.3	1245.5	1250.0	1288.3
27.5°	1427.1	1394.6	1255.9	1090.6	1000.6	996.1	1058.1	1210.1	1221.9	1226.3	1267.7
30°	1385.7	1337.0	1186.5	1059.6	965.2	963.7	1059.6	1186.5	1183.5	1195.4	1236.7
32.5°	1342.9	1251.5	1108.3	1021.2	931.2	929.8	1049.2	1151.1	1148.1	1164.3	1195.4
35°	1303.1	1185.0	1002.1	976.9	888.4	889.9	1024.2	1109.8	1111.2	1126.0	1145.2
37.5°	1261.7	1127.5	885.5	928.3	847.1	847.1	990.2	1071.4	1068.4	1072.9	1099.5
40°	1213.1	1037.5	782.1	864.8	808.7	804.3	948.9	1030.0	1019.8	1018.3	1055.2
42.5°	1161.5	938.6	705.4	780.6	764.4	758.6	898.7	979.9	960.7	965.2	1012.3
45°	1105.3	912.1	646.4	659.7	718.7	714.3	844.1	922.4	909.1	920.9	969.6
47.5°	1049.2	858.9	627.2	547.6	670.0	668.5	783.6	866.3	858.9	870.7	922.4
50°	972.5	799.8	625.7	469.3	615.4	621.3	711.3	811.7	811.7	822.0	876.6
52.5°	873.7	727.5	568.1	425.0	551.9	569.6	647.8	764.4	767.4	777.8	826.4
55°	783.6	652.3	526.9	391.1	476.7	515.0	585.9	715.8	721.6	732.0	776.3
57.5°	701.0	543.1	518.0	351.3	407.3	444.2	531.2	668.5	671.5	680.4	723.1
60°	612.4	392.6	475.2	308.4	346.8	374.8	481.1	612.4	622.8	628.6	665.5
62.5°	512.1	284.8	431.0	278.9	317.2	323.2	439.8	559.3	572.6	577.0	599.2
65°	364.5	239.1	366.0	253.8	286.3	287.8	395.5	504.7	516.5	523.9	540.1
67.5°	246.4	194.8	278.9	230.2	262.7	264.1	352.7	441.2	457.5	463.4	473.7
70°	171.2	129.8	206.6	205.1	236.1	239.1	307.0	383.7	398.4	402.9	408.8
72.5°	125.4	104.8	171.2	184.4	208.1	211.0	259.7	318.7	333.6	337.9	340.9
75°	95.9	110.7	138.7	160.9	177.1	178.6	212.5	259.7	270.1	273.0	274.5
77.5°	76.7	103.3	101.9	129.8	144.6	141.7	166.7	200.7	209.5	209.5	209.5
80°	57.6	81.2	76.7	93.0	106.2	103.3	119.6	143.2	146.1	149.0	147.5
82.5°	42.8	51.6	51.6	59.0	70.8	67.8	79.7	93.0	93.0	93.0	95.9
85°	26.6	29.5	23.6	31.0	39.9	38.4	44.3	50.1	51.6	51.6	48.7
87.5°	16.2	13.3	7.4	11.8	17.7	17.7	20.7	22.1	20.7	20.7	20.7
90°	9.4	6.5	3.7	6.5	9.4	10.1	16.0	23.7	27.6	24.5	18.4
92.5°	63.8	39.2	14.5	39.2	63.8	70.0	98.5	136.3	155.2	136.0	97.7
95°	125.1	80.0	34.8	80.0	125.1	136.4	242.2	383.2	453.7	404.9	307.2
97.5°	139.9	100.0	60.2	100.0	139.9	149.8	326.2	561.4	679.0	648.1	586.4
100°	152.0	115.9	79.8	115.9	152.0	161.1	356.8	617.8	748.3	750.6	755.0
102.5°	163.9	130.2	96.4	130.2	163.9	172.3	370.9	635.5	767.9	807.2	885.9
105°	181.8	153.3	124.8	153.3	181.8	189.0	381.3	637.5	765.7	853.9	1030.2
107.5°	207.0	180.4	153.8	180.4	207.0	213.6	383.2	609.1	722.1	845.2	1091.2
110°	221.4	197.4	173.4	197.4	221.4	227.4	380.2	584.0	685.9	823.4	1098.4



TEST NUMBER: P935332

CATALOG NUMBER: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	238.3	215.5	192.6	215.5	238.3	244.1	380.4	562.0	652.9	793.6	1075.0
115°	263.8	242.7	221.6	242.7	263.8	269.1	383.9	536.9	613.4	749.0	1020.1
117.5°	288.6	269.5	250.3	269.5	288.6	293.4	391.0	521.1	586.2	708.5	953.2
120°	303.0	285.0	266.9	285.0	303.0	307.6	396.8	515.8	575.3	687.1	910.7
122.5°	319.8	301.5	283.3	301.5	319.8	324.3	405.1	513.0	566.9	667.5	868.9
125°	341.5	324.9	308.4	324.9	341.5	345.7	416.4	510.7	557.8	643.4	814.4
127.5°	362.2	345.3	328.6	345.3	362.2	366.3	427.6	509.4	550.3	623.7	770.5
130°	375.6	357.5	339.5	357.5	375.6	380.1	435.8	510.2	547.4	612.8	743.5
132.5°	386.8	368.8	350.7	368.8	386.8	391.4	442.5	510.7	544.8	603.3	720.3
135°	400.4	383.9	367.5	383.9	400.4	404.4	449.8	510.2	540.5	589.5	687.4
137.5°	417.0	400.8	384.5	400.8	417.0	421.1	460.6	513.4	539.7	581.1	664.0
140°	428.6	413.6	398.6	413.6	428.6	432.4	467.3	513.9	537.2	572.9	644.5
142.5°	437.2	423.4	409.5	423.4	437.2	440.7	472.9	515.7	537.2	568.6	631.4
145°	450.3	438.3	426.2	438.3	450.3	453.4	480.1	515.8	533.6	559.3	610.7
147.5°	466.4	454.7	442.9	454.7	466.4	469.3	490.8	519.3	533.6	553.8	594.3
150°	475.0	464.4	453.7	464.4	475.0	477.7	496.4	521.2	533.6	550.7	584.8
152.5°	481.1	473.0	465.0	473.0	481.1	483.1	499.9	522.3	533.6	548.2	577.3
155°	493.7	487.6	481.7	487.6	493.7	495.1	508.0	525.1	533.6	545.2	568.4
157.5°	505.6	499.8	494.0	499.8	505.6	507.1	515.9	527.7	533.6	542.6	560.6
160°	511.4	506.9	502.4	506.9	511.4	512.5	519.6	528.9	533.6	541.4	556.8
162.5°	517.5	514.1	510.7	514.1	517.5	518.3	523.4	530.2	533.6	540.1	553.1
165°	525.8	522.8	519.7	522.8	525.8	526.6	529.0	532.0	533.6	538.3	547.6
167.5°	531.1	529.6	528.1	529.6	531.1	531.4	533.3	535.9	537.2	540.2	546.3
170°	536.5	535.0	533.6	535.0	536.5	536.8	536.9	537.1	537.2	540.2	546.3
172.5°	537.1	536.8	536.5	536.8	537.1	537.2	537.2	537.2	537.2	539.6	544.4
175°	540.5	540.5	540.5	540.5	540.5	540.5	539.4	537.9	537.2	538.7	541.8
177.5°	540.5	540.5	540.5	540.5	540.5	540.5	539.6	538.5	537.9	539.1	541.5
180°	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5



TEST NUMBER: P935332
 CATALOG NUMBER: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9
2.5°	1505.3	1500.9	1506.8	1490.5	1506.8	1500.9	1505.3	1515.6	1506.8	1512.6	1518.6
5°	1320.8	1313.5	1289.8	1270.6	1289.8	1313.5	1320.8	1351.8	1366.6	1393.2	1428.6
7.5°	1180.6	1174.7	1168.8	1157.0	1168.8	1174.7	1180.6	1189.5	1204.2	1227.8	1254.4
10°	1149.6	1151.1	1160.0	1158.5	1160.0	1151.1	1149.6	1146.6	1142.3	1146.6	1162.9
12.5°	1229.3	1242.6	1291.3	1288.3	1291.3	1242.6	1229.3	1170.3	1130.4	1123.1	1126.0
15°	1320.8	1325.2	1335.6	1337.0	1335.6	1325.2	1320.8	1297.2	1177.7	1126.0	1109.8
17.5°	1329.7	1331.2	1338.5	1338.5	1338.5	1331.2	1329.7	1319.3	1279.4	1210.1	1118.6
20°	1322.3	1325.2	1340.0	1342.9	1340.0	1325.2	1322.3	1309.0	1286.9	1261.7	1192.4
22.5°	1319.3	1325.2	1337.0	1335.6	1337.0	1325.2	1319.3	1298.6	1279.4	1261.7	1233.8
25°	1304.6	1304.6	1306.0	1307.5	1306.0	1304.6	1304.6	1288.3	1250.0	1245.5	1229.3
27.5°	1273.6	1276.6	1285.4	1283.9	1285.4	1276.6	1273.6	1267.7	1226.3	1221.9	1210.1
30°	1245.5	1242.6	1235.2	1229.3	1235.2	1242.6	1245.5	1236.7	1195.4	1183.5	1186.5
32.5°	1198.3	1190.9	1183.5	1179.2	1183.5	1190.9	1198.3	1195.4	1164.3	1148.1	1151.1
35°	1142.3	1143.7	1142.3	1137.8	1142.3	1143.7	1142.3	1145.2	1126.0	1111.2	1109.8
37.5°	1102.4	1105.3	1103.9	1098.0	1103.9	1105.3	1102.4	1099.5	1072.9	1068.4	1071.4
40°	1061.1	1062.6	1061.1	1056.6	1061.1	1062.6	1061.1	1055.2	1018.3	1019.8	1030.0
42.5°	1021.2	1019.8	1015.3	1012.3	1015.3	1019.8	1021.2	1012.3	965.2	960.7	979.9
45°	975.5	976.9	968.1	963.7	968.1	976.9	975.5	969.6	920.9	909.1	922.4
47.5°	929.8	929.8	922.4	917.9	922.4	929.8	929.8	922.4	870.7	858.9	866.3
50°	881.0	879.5	869.2	867.8	869.2	879.5	881.0	876.6	822.0	811.7	811.7
52.5°	824.9	824.9	826.4	829.4	826.4	824.9	824.9	826.4	777.8	767.4	764.4
55°	776.3	777.8	788.1	791.0	788.1	777.8	776.3	776.3	732.0	721.6	715.8
57.5°	726.1	726.1	733.5	733.5	733.5	726.1	726.1	723.1	680.4	671.5	668.5
60°	668.5	671.5	677.4	675.9	677.4	671.5	668.5	665.5	628.6	622.8	612.4
62.5°	608.0	610.9	612.4	609.5	612.4	610.9	608.0	599.2	577.0	572.6	559.3
65°	544.6	547.6	548.9	546.1	548.9	547.6	544.6	540.1	523.9	516.5	504.7
67.5°	479.6	478.1	476.7	482.6	476.7	478.1	479.6	473.7	463.4	457.5	441.2
70°	413.2	413.2	411.8	414.7	411.8	413.2	413.2	408.8	402.9	398.4	383.7
72.5°	342.4	340.9	346.8	342.4	346.8	340.9	342.4	340.9	337.9	333.6	318.7
75°	273.0	276.0	273.0	277.5	273.0	276.0	273.0	274.5	273.0	270.1	259.7
77.5°	208.1	211.0	208.1	208.1	208.1	211.0	208.1	209.5	209.5	209.5	200.7
80°	147.5	146.1	146.1	144.6	146.1	146.1	147.5	147.5	149.0	146.1	143.2
82.5°	94.4	93.0	93.0	95.9	93.0	93.0	94.4	95.9	93.0	93.0	93.0
85°	51.6	53.1	50.1	50.1	50.1	53.1	51.6	48.7	51.6	51.6	50.1
87.5°	19.2	17.7	17.7	17.7	17.7	17.7	19.2	20.7	20.7	20.7	22.1
90°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	18.4	24.5	27.6	23.7
92.5°	68.9	66.2	55.2	44.2	55.2	66.2	68.9	97.7	136.0	155.2	136.3
95°	234.0	225.7	192.5	159.2	192.5	225.7	234.0	307.2	404.9	453.7	383.2
97.5°	540.1	524.3	461.0	397.9	461.0	524.3	540.1	586.4	648.1	679.0	561.4
100°	758.4	739.6	664.3	589.1	664.3	739.6	758.4	755.0	750.6	748.3	617.8
102.5°	944.8	928.7	864.3	799.8	864.3	928.7	944.8	885.9	807.2	767.9	635.5
105°	1162.5	1153.9	1119.2	1084.5	1119.2	1153.9	1162.5	1030.2	853.9	765.7	637.5
107.5°	1275.7	1277.8	1286.2	1294.5	1286.2	1277.8	1275.7	1091.2	845.2	722.1	609.1
110°	1304.7	1313.7	1349.8	1385.9	1349.8	1313.7	1304.7	1098.4	823.4	685.9	584.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1286.2	1300.0	1355.5	1411.0	1355.5	1300.0	1286.2	1075.0	793.6	652.9	562.0
115°	1223.5	1242.6	1319.6	1396.5	1319.6	1242.6	1223.5	1020.1	749.0	613.4	536.9
117.5°	1136.8	1158.1	1243.3	1328.6	1243.3	1158.1	1136.8	953.2	708.5	586.2	521.1
120°	1078.4	1099.1	1182.0	1264.8	1182.0	1099.1	1078.4	910.7	687.1	575.3	515.8
122.5°	1019.9	1040.3	1122.1	1203.8	1122.1	1040.3	1019.9	868.9	667.5	566.9	513.0
125°	942.7	961.5	1036.8	1112.1	1036.8	961.5	942.7	814.4	643.4	557.8	510.7
127.5°	880.7	896.5	960.1	1023.6	960.1	896.5	880.7	770.5	623.7	550.3	509.4
130°	841.5	856.2	914.9	973.5	914.9	856.2	841.5	743.5	612.8	547.4	510.2
132.5°	808.1	821.3	873.8	926.4	873.8	821.3	808.1	720.3	603.3	544.8	510.7
135°	760.9	772.3	817.5	862.9	817.5	772.3	760.9	687.4	589.5	540.5	510.2
137.5°	726.1	735.4	772.5	809.6	772.5	735.4	726.1	664.0	581.1	539.7	513.4
140°	698.2	706.9	741.6	776.2	741.6	706.9	698.2	644.5	572.9	537.2	513.9
142.5°	678.6	686.1	715.9	745.8	715.9	686.1	678.6	631.4	568.6	537.2	515.7
145°	649.2	654.9	677.5	700.1	677.5	654.9	649.2	610.7	559.3	533.6	515.8
147.5°	624.6	629.3	648.0	666.7	648.0	629.3	624.6	594.3	553.8	533.6	519.3
150°	610.4	614.2	629.3	644.5	629.3	614.2	610.4	584.8	550.7	533.6	521.2
152.5°	599.2	602.1	613.5	625.0	613.5	602.1	599.2	577.3	548.2	533.6	522.3
155°	585.7	587.7	595.3	602.8	595.3	587.7	585.7	568.4	545.2	533.6	525.1
157.5°	574.1	575.5	580.9	586.2	580.9	575.5	574.1	560.6	542.6	533.6	527.7
160°	568.4	569.2	572.2	575.3	572.2	569.2	568.4	556.8	541.4	533.6	528.9
162.5°	562.9	563.6	566.6	569.4	566.6	563.6	562.9	553.1	540.1	533.6	530.2
165°	554.6	555.4	558.5	561.5	558.5	555.4	554.6	547.6	538.3	533.6	532.0
167.5°	551.0	551.3	552.5	553.8	552.5	551.3	551.0	546.3	540.2	537.2	535.9
170°	551.0	551.0	551.0	551.0	551.0	551.0	551.0	546.3	540.2	537.2	537.1
172.5°	548.1	547.8	546.7	545.5	546.7	547.8	548.1	544.4	539.6	537.2	537.2
175°	544.1	544.1	544.1	544.1	544.1	544.1	544.1	541.8	538.7	537.2	537.9
177.5°	543.4	543.0	541.8	540.5	541.8	543.0	543.4	541.5	539.1	537.9	538.5
180°	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1559.9	1559.9	1559.9	1559.9	1559.9
2.5°	1540.7	1548.0	1552.5	1558.4	1573.1
5°	1481.7	1509.7	1518.6	1540.7	1567.2
7.5°	1351.8	1437.4	1461.0	1514.1	1555.4
10°	1226.3	1312.0	1353.3	1478.7	1540.7
12.5°	1162.9	1213.1	1241.1	1416.7	1520.0
15°	1123.1	1158.5	1179.2	1334.1	1496.4
17.5°	1092.0	1117.2	1131.9	1252.9	1464.0
20°	1072.9	1084.7	1098.0	1193.9	1427.1
22.5°	1059.6	1052.2	1062.6	1152.6	1376.9
25°	1050.7	1022.7	1034.5	1120.1	1317.8
27.5°	1058.1	996.1	1000.6	1090.6	1255.9
30°	1059.6	963.7	965.2	1059.6	1186.5
32.5°	1049.2	929.8	931.2	1021.2	1108.3
35°	1024.2	889.9	888.4	976.9	1002.1
37.5°	990.2	847.1	847.1	928.3	885.5
40°	948.9	804.3	808.7	864.8	782.1
42.5°	898.7	758.6	764.4	780.6	705.4
45°	844.1	714.3	718.7	659.7	646.4
47.5°	783.6	668.5	670.0	547.6	627.2
50°	711.3	621.3	615.4	469.3	625.7
52.5°	647.8	569.6	551.9	425.0	568.1
55°	585.9	515.0	476.7	391.1	526.9
57.5°	531.2	444.2	407.3	351.3	518.0
60°	481.1	374.8	346.8	308.4	475.2
62.5°	439.8	323.2	317.2	278.9	431.0
65°	395.5	287.8	286.3	253.8	366.0
67.5°	352.7	264.1	262.7	230.2	278.9
70°	307.0	239.1	236.1	205.1	206.6
72.5°	259.7	211.0	208.1	184.4	171.2
75°	212.5	178.6	177.1	160.9	138.7
77.5°	166.7	141.7	144.6	129.8	101.9
80°	119.6	103.3	106.2	93.0	76.7
82.5°	79.7	67.8	70.8	59.0	51.6
85°	44.3	38.4	39.9	31.0	23.6
87.5°	20.7	17.7	17.7	11.8	7.4
90°	16.0	10.1	9.4	6.5	3.7
92.5°	98.5	70.0	63.8	39.2	14.5
95°	242.2	136.4	125.1	80.0	34.8
97.5°	326.2	149.8	139.9	100.0	60.2
100°	356.8	161.1	152.0	115.9	79.8
102.5°	370.9	172.3	163.9	130.2	96.4
105°	381.3	189.0	181.8	153.3	124.8
107.5°	383.2	213.6	207.0	180.4	153.8
110°	380.2	227.4	221.4	197.4	173.4



TEST NUMBER: P935332

CATALOG NUMBER: SQ4-FA-100U-125D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	380.4	244.1	238.3	215.5	192.6
115°	383.9	269.1	263.8	242.7	221.6
117.5°	391.0	293.4	288.6	269.5	250.3
120°	396.8	307.6	303.0	285.0	266.9
122.5°	405.1	324.3	319.8	301.5	283.3
125°	416.4	345.7	341.5	324.9	308.4
127.5°	427.6	366.3	362.2	345.3	328.6
130°	435.8	380.1	375.6	357.5	339.5
132.5°	442.5	391.4	386.8	368.8	350.7
135°	449.8	404.4	400.4	383.9	367.5
137.5°	460.6	421.1	417.0	400.8	384.5
140°	467.3	432.4	428.6	413.6	398.6
142.5°	472.9	440.7	437.2	423.4	409.5
145°	480.1	453.4	450.3	438.3	426.2
147.5°	490.8	469.3	466.4	454.7	442.9
150°	496.4	477.7	475.0	464.4	453.7
152.5°	499.9	483.1	481.1	473.0	465.0
155°	508.0	495.1	493.7	487.6	481.7
157.5°	515.9	507.1	505.6	499.8	494.0
160°	519.6	512.5	511.4	506.9	502.4
162.5°	523.4	518.3	517.5	514.1	510.7
165°	529.0	526.6	525.8	522.8	519.7
167.5°	533.3	531.4	531.1	529.6	528.1
170°	536.9	536.8	536.5	535.0	533.6
172.5°	537.2	537.2	537.1	536.8	536.5
175°	539.4	540.5	540.5	540.5	540.5
177.5°	539.6	540.5	540.5	540.5	540.5
180°	540.5	540.5	540.5	540.5	540.5



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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	14.40	15.30	15.33	16.24	17.46	17.20	18.10	18.13	19.04	20.26
	3H	14.88	15.69	15.82	16.64	17.88	18.54	19.34	19.48	20.29	21.54
	4H	15.08	15.84	16.03	16.79	18.04	18.98	19.74	19.93	20.70	21.95
	6H	15.20	15.90	16.16	16.86	18.12	19.26	19.96	20.22	20.92	22.18
	8H	15.20	15.87	16.17	16.85	18.11	19.33	20.00	20.30	20.98	22.24
	12H	15.17	15.81	16.15	16.78	18.07	19.37	20.00	20.34	20.97	22.26
4H	2H	15.43	16.19	16.39	17.15	18.40	17.62	18.38	18.57	19.33	20.58
	3H	16.46	17.10	17.43	18.08	19.35	19.12	19.75	20.08	20.74	22.00
	4H	16.74	17.32	17.72	18.30	19.59	19.64	20.22	20.62	21.20	22.49
	6H	16.87	17.37	17.86	18.37	19.66	20.00	20.50	20.99	21.50	22.79
	8H	16.88	17.34	17.87	18.34	19.64	20.10	20.57	21.09	21.56	22.87
	12H	16.84	17.26	17.85	18.28	19.59	20.15	20.57	21.16	21.59	22.90
8H	4H	17.19	17.66	18.18	18.65	19.96	19.77	20.23	20.76	21.23	22.53
	6H	17.46	17.84	18.47	18.88	20.18	20.20	20.58	21.21	21.62	22.92
	8H	17.50	17.84	18.52	18.86	20.18	20.34	20.68	21.37	21.71	23.03
	12H	17.48	17.78	18.51	18.80	20.17	20.44	20.74	21.47	21.76	23.12
12H	4H	17.20	17.62	18.21	18.63	19.94	19.73	20.15	20.74	21.17	22.48
	6H	17.51	17.85	18.54	18.88	20.20	20.19	20.53	21.22	21.56	22.88
	8H	17.58	17.88	18.61	18.90	20.27	20.35	20.65	21.38	21.67	23.04