

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: P934959

Luminaire Tested: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934959
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-93050-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

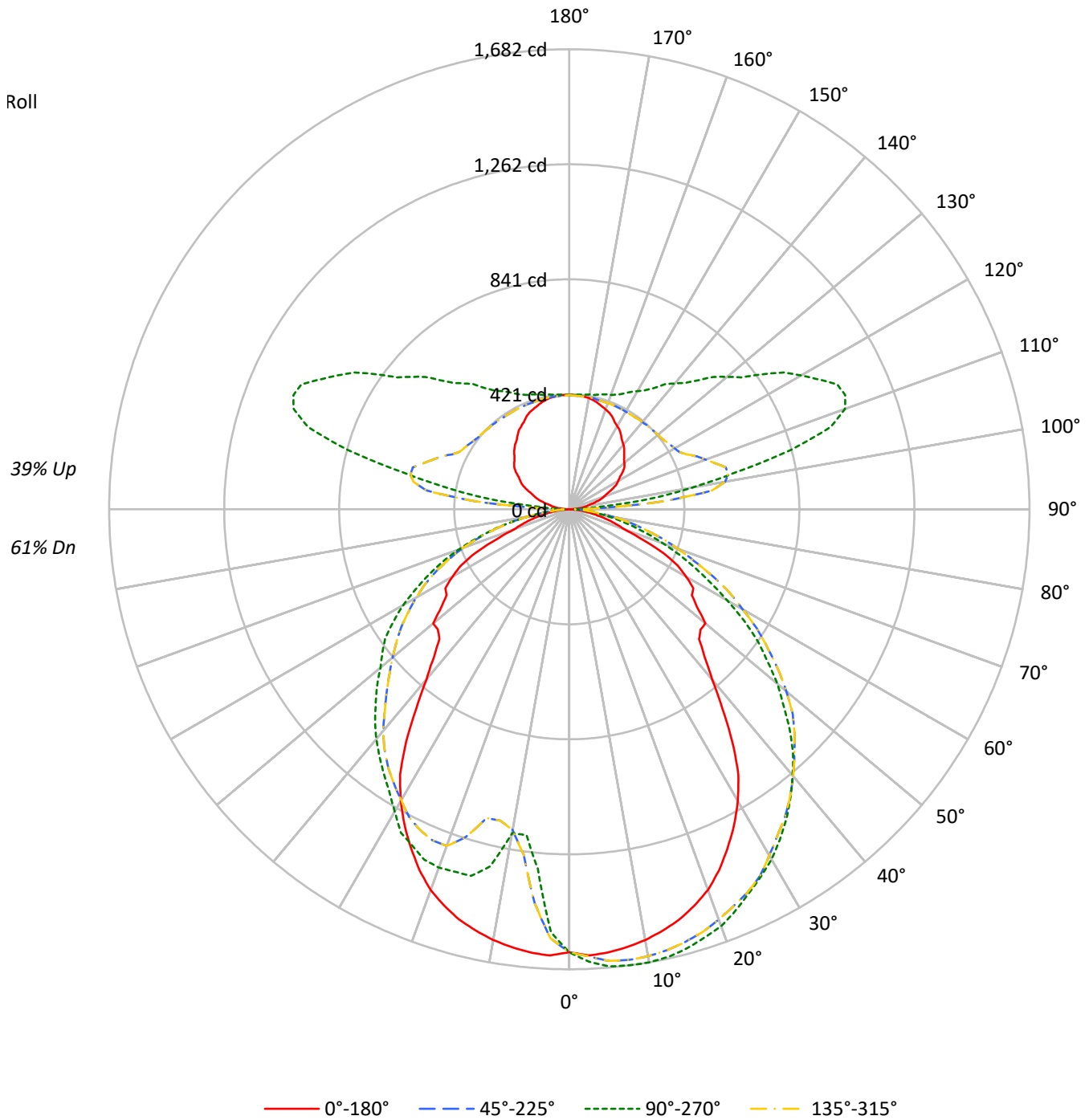
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6910.0 lumens
Efficiency: N/A
Efficacy: 111.5 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: 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	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°	15025	15025	15025	15025
5°	15120	15167	15120	11925
10°	15002	14940	15002	10681
15°	14823	14617	14823	12204
20°	14496	14233	14496	12230
25°	13844	13673	13844	11971
30°	13009	13209	13009	11402
35°	11579	12622	11579	10777
40°	9631	11931	9631	10304
45°	8589	11121	8589	9761
50°	9105	10156	9105	9215
55°	8543	9116	8543	8900
60°	8773	7743	8773	8152
65°	7917	6401	7917	7154
70°	5443	5100	5443	5996
75°	4722	3770	4722	4515
80°	3730	2493	3730	2714
85°	2029	1321	2029	1120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13190 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	2.1
10°-20°	415.0	6.0
20°-30°	641.5	9.3
30°-40°	765.8	11.1
40°-50°	770.3	11.1
50°-60°	670.2	9.7
60°-70°	475.2	6.9
70°-80°	251.4	3.6
80°-90°	64.2	0.9
90°-100°	203.8	2.9
100°-110°	535.8	7.8
110°-120°	555.6	8.0
120°-130°	445.6	6.4
130°-140°	349.7	5.1
140°-150°	268.4	3.9
150°-160°	193.3	2.8
160°-170°	118.3	1.7
170°-180°	40.0	0.6
0°-30°	1202.6	17.4
0°-40°	1968.4	28.5
0°-60°	3408.9	49.3
0°-90°	4199.7	60.8
90°-120°	1295.2	18.7
90°-150°	2358.8	34.1
90°-180°	2710.0	39.2
0°-180°	6910.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1619	1619	1619	1619	1619	
5°	1627	1677	1627	1319	1627	154
15°	1553	1662	1553	1388	1553	437
25°	1368	1550	1368	1357	1368	628
35°	1040	1383	1040	1181	1040	643
45°	671	1140	671	1000	671	537
55°	547	841	547	821	547	503
65°	380	507	380	567	380	363
75°	144	240	144	288	144	151
85°	24	61	24	52	24	33
90°	3	11	3	11	3	3
95°	27	123	27	123	27	30
105°	96	839	96	839	96	102
115°	171	1080	171	1080	171	169
125°	238	860	238	860	238	212
135°	284	668	284	668	284	220
145°	330	542	330	542	330	207
155°	373	466	373	466	373	171
165°	402	434	402	434	402	113
175°	418	421	418	421	418	40
180°	418	418	418	418	418	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1632.9	1632.9	1642.1	1645.2	1645.2	1640.6	1636.0	1640.6	1654.4	1659.0	1657.4
5°	1626.8	1639.1	1655.9	1659.0	1662.1	1660.5	1657.4	1660.5	1675.8	1678.9	1680.4
7.5°	1614.5	1637.5	1659.0	1663.6	1668.1	1663.6	1662.1	1665.1	1680.4	1683.5	1683.5
10°	1599.2	1631.4	1655.9	1659.0	1663.6	1659.0	1659.0	1665.1	1680.4	1683.5	1685.0
12.5°	1577.8	1622.2	1645.2	1648.2	1654.4	1652.8	1651.3	1657.4	1672.7	1675.8	1675.8
15°	1553.3	1605.4	1626.8	1629.8	1640.6	1637.5	1637.5	1643.7	1660.5	1665.1	1663.6
17.5°	1519.6	1583.9	1608.4	1613.0	1620.7	1619.2	1620.7	1626.8	1642.1	1645.2	1646.7
20°	1481.3	1554.8	1583.9	1588.5	1596.2	1596.2	1596.2	1603.9	1619.2	1625.3	1625.3
22.5°	1429.2	1524.2	1554.8	1557.9	1567.0	1567.0	1570.1	1580.9	1594.6	1596.2	1596.2
25°	1367.9	1490.4	1516.5	1525.7	1534.9	1539.5	1544.1	1550.2	1554.8	1553.3	1554.8
27.5°	1303.6	1447.5	1481.3	1487.4	1499.7	1504.3	1510.4	1511.9	1513.4	1518.0	1515.0
30°	1231.6	1387.8	1438.4	1444.5	1464.5	1467.4	1461.4	1464.5	1472.1	1475.1	1478.2
32.5°	1150.4	1299.0	1393.9	1407.7	1426.2	1416.9	1415.4	1420.0	1432.2	1432.2	1435.3
35°	1040.1	1230.0	1352.6	1364.9	1378.7	1367.9	1374.0	1375.6	1383.3	1387.8	1386.3
37.5°	919.1	1170.3	1309.7	1318.9	1329.6	1315.8	1325.1	1329.6	1335.7	1332.7	1332.7
40°	811.8	1076.9	1259.2	1265.3	1274.5	1263.8	1272.9	1276.0	1279.1	1276.0	1274.5
42.5°	732.2	974.2	1205.6	1213.2	1207.0	1214.7	1217.8	1224.0	1219.3	1213.2	1213.2
45°	670.9	946.7	1147.3	1156.5	1147.3	1159.6	1164.2	1164.2	1150.4	1147.3	1145.8
47.5°	651.0	891.5	1089.1	1089.1	1084.6	1099.9	1107.5	1096.8	1083.0	1078.4	1078.4
50°	649.5	830.2	1009.4	1003.4	1024.8	1043.2	1035.5	1024.8	1014.1	997.2	997.2
52.5°	589.7	755.2	906.9	929.8	963.5	974.2	962.0	951.2	932.9	925.3	919.1
55°	546.9	677.1	813.4	859.4	894.6	908.3	885.4	874.7	847.1	842.5	839.4
57.5°	537.7	563.7	727.7	785.9	828.7	827.2	813.4	793.5	770.5	765.9	764.4
60°	493.2	407.5	635.7	704.7	749.0	744.5	732.2	713.8	692.4	689.3	686.3
62.5°	447.3	295.6	531.5	609.6	672.4	670.9	660.2	632.6	617.3	609.6	603.6
65°	379.9	248.2	378.4	507.1	597.4	600.5	577.5	557.6	540.7	531.5	530.0
67.5°	289.5	202.2	255.8	422.8	525.4	522.4	493.2	484.1	462.6	458.0	448.9
70°	214.4	134.8	177.7	343.1	454.9	447.3	424.3	413.6	393.7	383.0	376.8
72.5°	177.7	108.8	130.2	266.6	383.0	373.7	353.8	341.6	324.8	315.5	309.4
75°	144.0	114.9	99.6	197.6	310.9	304.9	286.5	274.2	260.4	248.2	249.6
77.5°	105.7	107.3	79.7	145.5	246.7	237.4	226.7	211.4	205.3	193.0	193.0
80°	79.7	84.3	59.7	99.6	177.7	177.7	168.5	157.8	147.1	140.9	140.9
82.5°	53.6	53.6	44.4	62.8	121.0	116.4	110.2	107.3	101.1	98.0	98.0
85°	24.5	30.6	27.6	38.3	65.9	69.0	69.0	65.9	64.4	61.3	62.8
87.5°	7.7	13.8	16.8	21.5	33.7	35.2	36.7	36.7	36.7	38.3	38.3
90°	2.8	5.1	7.3	7.9	12.4	18.4	21.4	19.0	14.2	10.7	10.7
92.5°	11.2	30.3	49.3	54.1	76.1	105.5	120.1	105.3	75.6	53.3	51.2
95°	27.0	61.9	96.9	105.5	187.4	296.4	351.0	313.2	237.6	180.9	174.5
97.5°	46.6	77.4	108.2	115.9	252.4	434.3	525.3	501.4	453.7	417.8	405.6
100°	61.7	89.6	117.6	124.6	276.0	477.9	578.9	580.6	584.1	586.7	572.2
102.5°	74.7	100.7	126.7	133.2	286.8	491.7	594.1	624.5	685.3	730.9	718.4
105°	96.5	118.6	140.7	146.2	294.9	493.2	592.3	660.6	797.0	899.3	892.6
107.5°	118.9	139.6	160.1	165.3	296.4	471.2	558.7	653.8	844.1	986.8	988.4
110°	134.1	152.7	171.3	176.0	294.2	451.8	530.6	637.0	849.7	1009.3	1016.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	149.0	166.7	184.4	188.8	294.3	434.8	505.1	614.0	831.7	995.0	1005.7
115°	171.4	187.7	204.1	208.2	297.0	415.3	474.5	579.4	789.1	946.4	961.3
117.5°	193.6	208.5	223.3	227.0	302.5	403.1	453.4	548.1	737.3	879.4	895.8
120°	206.6	220.5	234.4	238.0	306.9	399.0	445.0	531.5	704.5	834.2	850.2
122.5°	219.1	233.3	247.3	250.8	313.4	396.8	438.6	516.4	672.2	789.0	804.9
125°	238.5	251.4	264.2	267.4	322.1	395.1	431.6	497.7	630.1	729.3	743.9
127.5°	254.3	267.2	280.1	283.4	330.8	394.1	425.7	482.5	596.1	681.3	693.6
130°	262.7	276.6	290.6	294.1	337.2	394.7	423.4	474.0	575.1	651.0	662.3
132.5°	271.4	285.3	299.2	302.8	342.3	395.1	421.4	466.7	557.3	625.2	635.3
135°	284.2	296.9	309.7	312.8	347.9	394.7	418.1	456.0	531.9	588.7	597.5
137.5°	297.4	310.0	322.6	325.8	356.4	397.2	417.6	449.6	513.7	561.7	568.9
140°	308.4	320.0	331.6	334.5	361.5	397.5	415.6	443.3	498.6	540.1	546.8
142.5°	316.8	327.5	338.2	340.9	365.8	399.0	415.6	439.9	488.5	525.0	530.8
145°	329.7	339.1	348.4	350.7	371.4	399.0	412.8	432.7	472.4	502.3	506.6
147.5°	342.6	351.7	360.8	363.1	379.6	401.7	412.8	428.4	459.7	483.2	486.8
150°	351.0	359.3	367.5	369.6	384.0	403.2	412.8	426.0	452.4	472.2	475.1
152.5°	359.7	366.0	372.2	373.7	386.8	404.1	412.8	424.1	446.6	463.5	465.7
155°	372.7	377.3	381.8	383.0	392.9	406.1	412.8	421.7	439.6	453.1	454.6
157.5°	382.2	386.7	391.2	392.3	399.1	408.2	412.8	419.7	433.7	444.2	445.2
160°	388.6	392.1	395.6	396.5	401.9	409.1	412.8	418.7	430.8	439.7	440.3
162.5°	395.1	397.7	400.4	401.0	404.9	410.1	412.8	417.8	427.9	435.5	436.0
165°	402.1	404.4	406.8	407.4	409.2	411.6	412.8	416.4	423.6	429.0	429.7
167.5°	408.5	409.6	410.8	411.0	412.6	414.6	415.6	417.9	422.7	426.2	426.5
170°	412.8	413.8	415.0	415.3	415.4	415.5	415.6	417.9	422.7	426.2	426.2
172.5°	415.0	415.3	415.5	415.6	415.6	415.6	415.6	417.5	421.2	424.0	423.8
175°	418.1	418.1	418.1	418.1	417.3	416.1	415.6	416.7	419.1	420.9	420.9
177.5°	418.1	418.1	418.1	418.1	417.5	416.6	416.1	417.0	418.9	420.4	420.1
180°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1660.5	1655.9	1660.5	1657.4	1659.0	1654.4	1640.6	1636.0	1640.6	1645.2	1645.2
5°	1680.4	1677.4	1680.4	1680.4	1678.9	1675.8	1660.5	1657.4	1660.5	1662.1	1659.0
7.5°	1686.5	1682.0	1686.5	1683.5	1683.5	1680.4	1665.1	1662.1	1663.6	1668.1	1663.6
10°	1686.5	1682.0	1686.5	1685.0	1683.5	1680.4	1665.1	1659.0	1659.0	1663.6	1659.0
12.5°	1678.9	1675.8	1678.9	1675.8	1675.8	1672.7	1657.4	1651.3	1652.8	1654.4	1648.2
15°	1666.6	1662.1	1666.6	1663.6	1665.1	1660.5	1643.7	1637.5	1637.5	1640.6	1629.8
17.5°	1648.2	1642.1	1648.2	1646.7	1645.2	1642.1	1626.8	1620.7	1619.2	1620.7	1613.0
20°	1626.8	1622.2	1626.8	1625.3	1625.3	1619.2	1603.9	1596.2	1596.2	1596.2	1588.5
22.5°	1593.1	1588.5	1593.1	1596.2	1596.2	1594.6	1580.9	1570.1	1567.0	1567.0	1557.9
25°	1554.8	1550.2	1554.8	1554.8	1553.3	1554.8	1550.2	1544.1	1539.5	1534.9	1525.7
27.5°	1518.0	1515.0	1518.0	1515.0	1518.0	1513.4	1511.9	1510.4	1504.3	1499.7	1487.4
30°	1481.3	1478.2	1481.3	1478.2	1475.1	1472.1	1464.5	1461.4	1467.4	1464.5	1444.5
32.5°	1435.3	1432.2	1435.3	1435.3	1432.2	1432.2	1420.0	1415.4	1416.9	1426.2	1407.7
35°	1387.8	1383.3	1387.8	1386.3	1387.8	1383.3	1375.6	1374.0	1367.9	1378.7	1364.9
37.5°	1332.7	1328.1	1332.7	1332.7	1332.7	1335.7	1329.6	1325.1	1315.8	1329.6	1318.9
40°	1276.0	1269.9	1276.0	1274.5	1276.0	1279.1	1276.0	1272.9	1263.8	1274.5	1265.3
42.5°	1211.6	1210.1	1211.6	1213.2	1213.2	1219.3	1224.0	1217.8	1214.7	1207.0	1213.2
45°	1142.8	1139.7	1142.8	1145.8	1147.3	1150.4	1164.2	1164.2	1159.6	1147.3	1156.5
47.5°	1069.2	1061.6	1069.2	1078.4	1078.4	1083.0	1096.8	1107.5	1099.9	1084.6	1089.1
50°	991.1	992.6	991.1	997.2	997.2	1014.1	1024.8	1035.5	1043.2	1024.8	1003.4
52.5°	914.5	912.9	914.5	919.1	925.3	932.9	951.2	962.0	974.2	963.5	929.8
55°	837.9	841.0	837.9	839.4	842.5	847.1	874.7	885.4	908.3	894.6	859.4
57.5°	761.3	756.7	761.3	764.4	765.9	770.5	793.5	813.4	827.2	828.7	785.9
60°	672.4	666.4	672.4	686.3	689.3	692.4	713.8	732.2	744.5	749.0	704.7
62.5°	594.3	583.6	594.3	603.6	609.6	617.3	632.6	660.2	670.9	672.4	609.6
65°	511.6	507.1	511.6	530.0	531.5	540.7	557.6	577.5	600.5	597.4	507.1
67.5°	436.6	436.6	436.6	448.9	458.0	462.6	484.1	493.2	522.4	525.4	422.8
70°	367.7	366.1	367.7	376.8	383.0	393.7	413.6	424.3	447.3	454.9	343.1
72.5°	301.8	300.2	301.8	309.4	315.5	324.8	341.6	353.8	373.7	383.0	266.6
75°	243.6	240.5	243.6	249.6	248.2	260.4	274.2	286.5	304.9	310.9	197.6
77.5°	186.9	186.9	186.9	193.0	193.0	205.3	211.4	226.7	237.4	246.7	145.5
80°	139.4	137.9	139.4	140.9	140.9	147.1	157.8	168.5	177.7	177.7	99.6
82.5°	98.0	95.0	98.0	98.0	98.0	101.1	107.3	110.2	116.4	121.0	62.8
85°	61.3	61.3	61.3	62.8	61.3	64.4	65.9	69.0	69.0	65.9	38.3
87.5°	39.8	38.3	39.8	38.3	38.3	36.7	36.7	36.7	35.2	33.7	21.5
90°	10.7	10.7	10.7	10.7	10.7	14.2	19.0	21.4	18.4	12.4	7.9
92.5°	42.7	34.2	42.7	51.2	53.3	75.6	105.3	120.1	105.5	76.1	54.1
95°	148.9	123.2	148.9	174.5	180.9	237.6	313.2	351.0	296.4	187.4	105.5
97.5°	356.7	307.8	356.7	405.6	417.8	453.7	501.4	525.3	434.3	252.4	115.9
100°	514.0	455.7	514.0	572.2	586.7	584.1	580.6	578.9	477.9	276.0	124.6
102.5°	668.6	618.7	668.6	718.4	730.9	685.3	624.5	594.1	491.7	286.8	133.2
105°	865.8	839.0	865.8	892.6	899.3	797.0	660.6	592.3	493.2	294.9	146.2
107.5°	995.0	1001.5	995.0	988.4	986.8	844.1	653.8	558.7	471.2	296.4	165.3
110°	1044.2	1072.2	1044.2	1016.2	1009.3	849.7	637.0	530.6	451.8	294.2	176.0



TEST NUMBER: P934959

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1048.6	1091.5	1048.6	1005.7	995.0	831.7	614.0	505.1	434.8	294.3	188.8
115°	1020.8	1080.3	1020.8	961.3	946.4	789.1	579.4	474.5	415.3	297.0	208.2
117.5°	961.8	1027.8	961.8	895.8	879.4	737.3	548.1	453.4	403.1	302.5	227.0
120°	914.3	978.4	914.3	850.2	834.2	704.5	531.5	445.0	399.0	306.9	238.0
122.5°	868.0	931.3	868.0	804.9	789.0	672.2	516.4	438.6	396.8	313.4	250.8
125°	802.1	860.3	802.1	743.9	729.3	630.1	497.7	431.6	395.1	322.1	267.4
127.5°	742.7	791.8	742.7	693.6	681.3	596.1	482.5	425.7	394.1	330.8	283.4
130°	707.7	753.1	707.7	662.3	651.0	575.1	474.0	423.4	394.7	337.2	294.1
132.5°	676.0	716.6	676.0	635.3	625.2	557.3	466.7	421.4	395.1	342.3	302.8
135°	632.5	667.6	632.5	597.5	588.7	531.9	456.0	418.1	394.7	347.9	312.8
137.5°	597.6	626.3	597.6	568.9	561.7	513.7	449.6	417.6	397.2	356.4	325.8
140°	573.7	600.5	573.7	546.8	540.1	498.6	443.3	415.6	397.5	361.5	334.5
142.5°	553.8	576.9	553.8	530.8	525.0	488.5	439.9	415.6	399.0	365.8	340.9
145°	524.1	541.6	524.1	506.6	502.3	472.4	432.7	412.8	399.0	371.4	350.7
147.5°	501.3	515.8	501.3	486.8	483.2	459.7	428.4	412.8	401.7	379.6	363.1
150°	486.9	498.7	486.9	475.1	472.2	452.4	426.0	412.8	403.2	384.0	369.6
152.5°	474.6	483.4	474.6	465.7	463.5	446.6	424.1	412.8	404.1	386.8	373.7
155°	460.5	466.3	460.5	454.6	453.1	439.6	421.7	412.8	406.1	392.9	383.0
157.5°	449.3	453.4	449.3	445.2	444.2	433.7	419.7	412.8	408.2	399.1	392.3
160°	442.6	445.0	442.6	440.3	439.7	430.8	418.7	412.8	409.1	401.9	396.5
162.5°	438.3	440.5	438.3	436.0	435.5	427.9	417.8	412.8	410.1	404.9	401.0
165°	432.0	434.4	432.0	429.7	429.0	423.6	416.4	412.8	411.6	409.2	407.4
167.5°	427.5	428.5	427.5	426.5	426.2	422.7	417.9	415.6	414.6	412.6	411.0
170°	426.2	426.2	426.2	426.2	426.2	422.7	417.9	415.6	415.5	415.4	415.3
172.5°	422.9	422.0	422.9	423.8	424.0	421.2	417.5	415.6	415.6	415.6	415.6
175°	420.9	420.9	420.9	420.9	420.9	419.1	416.7	415.6	416.1	417.3	418.1
177.5°	419.1	418.1	419.1	420.1	420.4	418.9	417.0	416.1	416.6	417.5	418.1
180°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



TEST NUMBER: P934959

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1642.1	1632.9	1632.9	1617.6	1611.5	1606.8	1599.2	1576.2	1570.1	1564.0	1573.2
5°	1655.9	1639.1	1626.8	1599.2	1576.2	1567.0	1538.0	1482.8	1446.1	1418.5	1403.2
7.5°	1659.0	1637.5	1614.5	1571.6	1516.5	1492.0	1403.2	1302.1	1274.5	1249.9	1234.6
10°	1655.9	1631.4	1599.2	1534.9	1404.7	1361.8	1272.9	1207.0	1190.2	1185.7	1190.2
12.5°	1645.2	1622.2	1577.8	1470.5	1288.2	1259.2	1207.0	1168.7	1165.8	1173.4	1214.7
15°	1626.8	1605.4	1553.3	1384.8	1224.0	1202.5	1165.8	1151.9	1168.7	1222.4	1346.5
17.5°	1608.4	1583.9	1519.6	1300.5	1174.9	1159.6	1133.5	1161.1	1256.1	1328.1	1369.4
20°	1583.9	1554.8	1481.3	1239.3	1139.7	1125.9	1113.6	1237.7	1309.7	1335.7	1358.7
22.5°	1554.8	1524.2	1429.2	1196.4	1102.9	1092.2	1099.9	1280.6	1309.7	1328.1	1348.0
25°	1516.5	1490.4	1367.9	1162.7	1073.8	1061.6	1090.6	1276.0	1292.8	1297.5	1337.3
27.5°	1481.3	1447.5	1303.6	1132.0	1038.6	1034.0	1098.3	1256.1	1268.3	1272.9	1315.8
30°	1438.4	1387.8	1231.6	1099.9	1001.8	1000.3	1099.9	1231.6	1228.5	1240.8	1283.7
32.5°	1393.9	1299.0	1150.4	1060.0	966.6	965.1	1089.1	1194.8	1191.7	1208.6	1240.8
35°	1352.6	1230.0	1040.1	1014.1	922.2	923.7	1063.1	1151.9	1153.4	1168.7	1188.7
37.5°	1309.7	1170.3	919.1	963.5	879.3	879.3	1027.8	1112.1	1109.0	1113.6	1141.2
40°	1259.2	1076.9	811.8	897.6	839.4	834.8	985.0	1069.2	1058.5	1057.0	1095.2
42.5°	1205.6	974.2	732.2	810.3	793.5	787.4	932.9	1017.1	997.2	1001.8	1050.8
45°	1147.3	946.7	670.9	684.8	746.0	741.4	876.2	957.4	943.6	955.9	1006.4
47.5°	1089.1	891.5	651.0	568.4	695.4	693.9	813.4	899.2	891.5	903.8	957.4
50°	1009.4	830.2	649.5	487.2	638.8	644.9	738.3	842.5	842.5	853.2	909.9
52.5°	906.9	755.2	589.7	441.2	572.9	591.3	672.4	793.5	796.5	807.3	857.8
55°	813.4	677.1	546.9	406.0	494.8	534.6	608.2	743.0	749.0	759.8	805.8
57.5°	727.7	563.7	537.7	364.6	422.8	461.1	551.4	693.9	697.0	706.2	750.6
60°	635.7	407.5	493.2	320.2	360.0	389.0	499.4	635.7	646.5	652.5	690.8
62.5°	531.5	295.6	447.3	289.5	329.3	335.5	456.5	580.6	594.3	598.9	621.9
65°	378.4	248.2	379.9	263.5	297.2	298.7	410.5	523.9	536.1	543.8	560.7
67.5°	255.8	202.2	289.5	239.0	272.6	274.2	366.1	458.0	474.8	481.0	491.7
70°	177.7	134.8	214.4	212.9	245.1	248.2	318.6	398.3	413.6	418.2	424.3
72.5°	130.2	108.8	177.7	191.4	216.0	219.0	269.6	330.8	346.2	350.7	353.8
75°	99.6	114.9	144.0	167.0	183.8	185.4	220.6	269.6	280.3	283.4	284.9
77.5°	79.7	107.3	105.7	134.8	150.1	147.1	173.1	208.4	217.5	217.5	217.5
80°	59.7	84.3	79.7	96.5	110.2	107.3	124.1	148.6	151.6	154.7	153.2
82.5°	44.4	53.6	53.6	61.3	73.5	70.4	82.7	96.5	96.5	96.5	99.6
85°	27.6	30.6	24.5	32.1	41.4	39.8	46.0	52.0	53.6	53.6	50.5
87.5°	16.8	13.8	7.7	12.2	18.4	18.4	21.5	23.0	21.5	21.5	21.5
90°	7.3	5.1	2.8	5.1	7.3	7.9	12.4	18.4	21.4	19.0	14.2
92.5°	49.3	30.3	11.2	30.3	49.3	54.1	76.1	105.5	120.1	105.3	75.6
95°	96.9	61.9	27.0	61.9	96.9	105.5	187.4	296.4	351.0	313.2	237.6
97.5°	108.2	77.4	46.6	77.4	108.2	115.9	252.4	434.3	525.3	501.4	453.7
100°	117.6	89.6	61.7	89.6	117.6	124.6	276.0	477.9	578.9	580.6	584.1
102.5°	126.7	100.7	74.7	100.7	126.7	133.2	286.8	491.7	594.1	624.5	685.3
105°	140.7	118.6	96.5	118.6	140.7	146.2	294.9	493.2	592.3	660.6	797.0
107.5°	160.1	139.6	118.9	139.6	160.1	165.3	296.4	471.2	558.7	653.8	844.1
110°	171.3	152.7	134.1	152.7	171.3	176.0	294.2	451.8	530.6	637.0	849.7



TEST NUMBER: P934959

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	184.4	166.7	149.0	166.7	184.4	188.8	294.3	434.8	505.1	614.0	831.7
115°	204.1	187.7	171.4	187.7	204.1	208.2	297.0	415.3	474.5	579.4	789.1
117.5°	223.3	208.5	193.6	208.5	223.3	227.0	302.5	403.1	453.4	548.1	737.3
120°	234.4	220.5	206.6	220.5	234.4	238.0	306.9	399.0	445.0	531.5	704.5
122.5°	247.3	233.3	219.1	233.3	247.3	250.8	313.4	396.8	438.6	516.4	672.2
125°	264.2	251.4	238.5	251.4	264.2	267.4	322.1	395.1	431.6	497.7	630.1
127.5°	280.1	267.2	254.3	267.2	280.1	283.4	330.8	394.1	425.7	482.5	596.1
130°	290.6	276.6	262.7	276.6	290.6	294.1	337.2	394.7	423.4	474.0	575.1
132.5°	299.2	285.3	271.4	285.3	299.2	302.8	342.3	395.1	421.4	466.7	557.3
135°	309.7	296.9	284.2	296.9	309.7	312.8	347.9	394.7	418.1	456.0	531.9
137.5°	322.6	310.0	297.4	310.0	322.6	325.8	356.4	397.2	417.6	449.6	513.7
140°	331.6	320.0	308.4	320.0	331.6	334.5	361.5	397.5	415.6	443.3	498.6
142.5°	338.2	327.5	316.8	327.5	338.2	340.9	365.8	399.0	415.6	439.9	488.5
145°	348.4	339.1	329.7	339.1	348.4	350.7	371.4	399.0	412.8	432.7	472.4
147.5°	360.8	351.7	342.6	351.7	360.8	363.1	379.6	401.7	412.8	428.4	459.7
150°	367.5	359.3	351.0	359.3	367.5	369.6	384.0	403.2	412.8	426.0	452.4
152.5°	372.2	366.0	359.7	366.0	372.2	373.7	386.8	404.1	412.8	424.1	446.6
155°	381.8	377.3	372.7	377.3	381.8	383.0	392.9	406.1	412.8	421.7	439.6
157.5°	391.2	386.7	382.2	386.7	391.2	392.3	399.1	408.2	412.8	419.7	433.7
160°	395.6	392.1	388.6	392.1	395.6	396.5	401.9	409.1	412.8	418.7	430.8
162.5°	400.4	397.7	395.1	397.7	400.4	401.0	404.9	410.1	412.8	417.8	427.9
165°	406.8	404.4	402.1	404.4	406.8	407.4	409.2	411.6	412.8	416.4	423.6
167.5°	410.8	409.6	408.5	409.6	410.8	411.0	412.6	414.6	415.6	417.9	422.7
170°	415.0	413.8	412.8	413.8	415.0	415.3	415.4	415.5	415.6	417.9	422.7
172.5°	415.5	415.3	415.0	415.3	415.5	415.6	415.6	415.6	415.6	417.5	421.2
175°	418.1	418.1	418.1	418.1	418.1	418.1	417.3	416.1	415.6	416.7	419.1
177.5°	418.1	418.1	418.1	418.1	418.1	418.1	417.5	416.6	416.1	417.0	418.9
180°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



TEST NUMBER: P934959

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1562.5	1557.9	1564.0	1547.1	1564.0	1557.9	1562.5	1573.2	1564.0	1570.1	1576.2
5°	1371.0	1363.4	1338.8	1318.9	1338.8	1363.4	1371.0	1403.2	1418.5	1446.1	1482.8
7.5°	1225.5	1219.3	1213.2	1201.0	1213.2	1219.3	1225.5	1234.6	1249.9	1274.5	1302.1
10°	1193.3	1194.8	1204.0	1202.5	1204.0	1194.8	1193.3	1190.2	1185.7	1190.2	1207.0
12.5°	1276.0	1289.8	1340.4	1337.3	1340.4	1289.8	1276.0	1214.7	1173.4	1165.8	1168.7
15°	1371.0	1375.6	1386.3	1387.8	1386.3	1375.6	1371.0	1346.5	1222.4	1168.7	1151.9
17.5°	1380.2	1381.7	1389.3	1389.3	1389.3	1381.7	1380.2	1369.4	1328.1	1256.1	1161.1
20°	1372.5	1375.6	1390.9	1393.9	1390.9	1375.6	1372.5	1358.7	1335.7	1309.7	1237.7
22.5°	1369.4	1375.6	1387.8	1386.3	1387.8	1375.6	1369.4	1348.0	1328.1	1309.7	1280.6
25°	1354.1	1354.1	1355.7	1357.2	1355.7	1354.1	1354.1	1337.3	1297.5	1292.8	1276.0
27.5°	1322.0	1325.1	1334.2	1332.7	1334.2	1325.1	1322.0	1315.8	1272.9	1268.3	1256.1
30°	1292.8	1289.8	1282.2	1276.0	1282.2	1289.8	1292.8	1283.7	1240.8	1228.5	1231.6
32.5°	1243.9	1236.2	1228.5	1224.0	1228.5	1236.2	1243.9	1240.8	1208.6	1191.7	1194.8
35°	1185.7	1187.1	1185.7	1181.1	1185.7	1187.1	1185.7	1188.7	1168.7	1153.4	1151.9
37.5°	1144.3	1147.3	1145.8	1139.7	1145.8	1147.3	1144.3	1141.2	1113.6	1109.0	1112.1
40°	1101.4	1102.9	1101.4	1096.8	1101.4	1102.9	1101.4	1095.2	1057.0	1058.5	1069.2
42.5°	1060.0	1058.5	1053.9	1050.8	1053.9	1058.5	1060.0	1050.8	1001.8	997.2	1017.1
45°	1012.5	1014.1	1004.9	1000.3	1004.9	1014.1	1012.5	1006.4	955.9	943.6	957.4
47.5°	965.1	965.1	957.4	952.8	957.4	965.1	965.1	957.4	903.8	891.5	899.2
50°	914.5	912.9	902.3	900.7	902.3	912.9	914.5	909.9	853.2	842.5	842.5
52.5°	856.3	856.3	857.8	860.9	857.8	856.3	856.3	857.8	807.3	796.5	793.5
55°	805.8	807.3	818.0	821.1	818.0	807.3	805.8	805.8	759.8	749.0	743.0
57.5°	753.6	753.6	761.3	761.3	761.3	753.6	753.6	750.6	706.2	697.0	693.9
60°	693.9	697.0	703.1	701.6	703.1	697.0	693.9	690.8	652.5	646.5	635.7
62.5°	631.1	634.2	635.7	632.6	635.7	634.2	631.1	621.9	598.9	594.3	580.6
65°	565.3	568.4	569.8	566.8	569.8	568.4	565.3	560.7	543.8	536.1	523.9
67.5°	497.8	496.3	494.8	500.9	494.8	496.3	497.8	491.7	481.0	474.8	458.0
70°	428.9	428.9	427.4	430.4	427.4	428.9	428.9	424.3	418.2	413.6	398.3
72.5°	355.4	353.8	360.0	355.4	360.0	353.8	355.4	353.8	350.7	346.2	330.8
75°	283.4	286.5	283.4	288.0	283.4	286.5	283.4	284.9	283.4	280.3	269.6
77.5°	216.0	219.0	216.0	216.0	216.0	219.0	216.0	217.5	217.5	217.5	208.4
80°	153.2	151.6	151.6	150.1	151.6	151.6	153.2	153.2	154.7	151.6	148.6
82.5°	98.0	96.5	96.5	99.6	96.5	96.5	98.0	99.6	96.5	96.5	96.5
85°	53.6	55.1	52.0	52.0	52.0	55.1	53.6	50.5	53.6	53.6	52.0
87.5°	19.9	18.4	18.4	18.4	18.4	18.4	19.9	21.5	21.5	21.5	23.0
90°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	14.2	19.0	21.4	18.4
92.5°	53.3	51.2	42.7	34.2	42.7	51.2	53.3	75.6	105.3	120.1	105.5
95°	180.9	174.5	148.9	123.2	148.9	174.5	180.9	237.6	313.2	351.0	296.4
97.5°	417.8	405.6	356.7	307.8	356.7	405.6	417.8	453.7	501.4	525.3	434.3
100°	586.7	572.2	514.0	455.7	514.0	572.2	586.7	584.1	580.6	578.9	477.9
102.5°	730.9	718.4	668.6	618.7	668.6	718.4	730.9	685.3	624.5	594.1	491.7
105°	899.3	892.6	865.8	839.0	865.8	892.6	899.3	797.0	660.6	592.3	493.2
107.5°	986.8	988.4	995.0	1001.5	995.0	988.4	986.8	844.1	653.8	558.7	471.2
110°	1009.3	1016.2	1044.2	1072.2	1044.2	1016.2	1009.3	849.7	637.0	530.6	451.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	995.0	1005.7	1048.6	1091.5	1048.6	1005.7	995.0	831.7	614.0	505.1	434.8
115°	946.4	961.3	1020.8	1080.3	1020.8	961.3	946.4	789.1	579.4	474.5	415.3
117.5°	879.4	895.8	961.8	1027.8	961.8	895.8	879.4	737.3	548.1	453.4	403.1
120°	834.2	850.2	914.3	978.4	914.3	850.2	834.2	704.5	531.5	445.0	399.0
122.5°	789.0	804.9	868.0	931.3	868.0	804.9	789.0	672.2	516.4	438.6	396.8
125°	729.3	743.9	802.1	860.3	802.1	743.9	729.3	630.1	497.7	431.6	395.1
127.5°	681.3	693.6	742.7	791.8	742.7	693.6	681.3	596.1	482.5	425.7	394.1
130°	651.0	662.3	707.7	753.1	707.7	662.3	651.0	575.1	474.0	423.4	394.7
132.5°	625.2	635.3	676.0	716.6	676.0	635.3	625.2	557.3	466.7	421.4	395.1
135°	588.7	597.5	632.5	667.6	632.5	597.5	588.7	531.9	456.0	418.1	394.7
137.5°	561.7	568.9	597.6	626.3	597.6	568.9	561.7	513.7	449.6	417.6	397.2
140°	540.1	546.8	573.7	600.5	573.7	546.8	540.1	498.6	443.3	415.6	397.5
142.5°	525.0	530.8	553.8	576.9	553.8	530.8	525.0	488.5	439.9	415.6	399.0
145°	502.3	506.6	524.1	541.6	524.1	506.6	502.3	472.4	432.7	412.8	399.0
147.5°	483.2	486.8	501.3	515.8	501.3	486.8	483.2	459.7	428.4	412.8	401.7
150°	472.2	475.1	486.9	498.7	486.9	475.1	472.2	452.4	426.0	412.8	403.2
152.5°	463.5	465.7	474.6	483.4	474.6	465.7	463.5	446.6	424.1	412.8	404.1
155°	453.1	454.6	460.5	466.3	460.5	454.6	453.1	439.6	421.7	412.8	406.1
157.5°	444.2	445.2	449.3	453.4	449.3	445.2	444.2	433.7	419.7	412.8	408.2
160°	439.7	440.3	442.6	445.0	442.6	440.3	439.7	430.8	418.7	412.8	409.1
162.5°	435.5	436.0	438.3	440.5	438.3	436.0	435.5	427.9	417.8	412.8	410.1
165°	429.0	429.7	432.0	434.4	432.0	429.7	429.0	423.6	416.4	412.8	411.6
167.5°	426.2	426.5	427.5	428.5	427.5	426.5	426.2	422.7	417.9	415.6	414.6
170°	426.2	426.2	426.2	426.2	426.2	426.2	426.2	422.7	417.9	415.6	415.5
172.5°	424.0	423.8	422.9	422.0	422.9	423.8	424.0	421.2	417.5	415.6	415.6
175°	420.9	420.9	420.9	420.9	420.9	420.9	420.9	419.1	416.7	415.6	416.1
177.5°	420.4	420.1	419.1	418.1	419.1	420.1	420.4	418.9	417.0	416.1	416.6
180°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1599.2	1606.8	1611.5	1617.6	1632.9
5°	1538.0	1567.0	1576.2	1599.2	1626.8
7.5°	1403.2	1492.0	1516.5	1571.6	1614.5
10°	1272.9	1361.8	1404.7	1534.9	1599.2
12.5°	1207.0	1259.2	1288.2	1470.5	1577.8
15°	1165.8	1202.5	1224.0	1384.8	1553.3
17.5°	1133.5	1159.6	1174.9	1300.5	1519.6
20°	1113.6	1125.9	1139.7	1239.3	1481.3
22.5°	1099.9	1092.2	1102.9	1196.4	1429.2
25°	1090.6	1061.6	1073.8	1162.7	1367.9
27.5°	1098.3	1034.0	1038.6	1132.0	1303.6
30°	1099.9	1000.3	1001.8	1099.9	1231.6
32.5°	1089.1	965.1	966.6	1060.0	1150.4
35°	1063.1	923.7	922.2	1014.1	1040.1
37.5°	1027.8	879.3	879.3	963.5	919.1
40°	985.0	834.8	839.4	897.6	811.8
42.5°	932.9	787.4	793.5	810.3	732.2
45°	876.2	741.4	746.0	684.8	670.9
47.5°	813.4	693.9	695.4	568.4	651.0
50°	738.3	644.9	638.8	487.2	649.5
52.5°	672.4	591.3	572.9	441.2	589.7
55°	608.2	534.6	494.8	406.0	546.9
57.5°	551.4	461.1	422.8	364.6	537.7
60°	499.4	389.0	360.0	320.2	493.2
62.5°	456.5	335.5	329.3	289.5	447.3
65°	410.5	298.7	297.2	263.5	379.9
67.5°	366.1	274.2	272.6	239.0	289.5
70°	318.6	248.2	245.1	212.9	214.4
72.5°	269.6	219.0	216.0	191.4	177.7
75°	220.6	185.4	183.8	167.0	144.0
77.5°	173.1	147.1	150.1	134.8	105.7
80°	124.1	107.3	110.2	96.5	79.7
82.5°	82.7	70.4	73.5	61.3	53.6
85°	46.0	39.8	41.4	32.1	24.5
87.5°	21.5	18.4	18.4	12.2	7.7
90°	12.4	7.9	7.3	5.1	2.8
92.5°	76.1	54.1	49.3	30.3	11.2
95°	187.4	105.5	96.9	61.9	27.0
97.5°	252.4	115.9	108.2	77.4	46.6
100°	276.0	124.6	117.6	89.6	61.7
102.5°	286.8	133.2	126.7	100.7	74.7
105°	294.9	146.2	140.7	118.6	96.5
107.5°	296.4	165.3	160.1	139.6	118.9
110°	294.2	176.0	171.3	152.7	134.1



TEST NUMBER: P934959

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	294.3	188.8	184.4	166.7	149.0
115°	297.0	208.2	204.1	187.7	171.4
117.5°	302.5	227.0	223.3	208.5	193.6
120°	306.9	238.0	234.4	220.5	206.6
122.5°	313.4	250.8	247.3	233.3	219.1
125°	322.1	267.4	264.2	251.4	238.5
127.5°	330.8	283.4	280.1	267.2	254.3
130°	337.2	294.1	290.6	276.6	262.7
132.5°	342.3	302.8	299.2	285.3	271.4
135°	347.9	312.8	309.7	296.9	284.2
137.5°	356.4	325.8	322.6	310.0	297.4
140°	361.5	334.5	331.6	320.0	308.4
142.5°	365.8	340.9	338.2	327.5	316.8
145°	371.4	350.7	348.4	339.1	329.7
147.5°	379.6	363.1	360.8	351.7	342.6
150°	384.0	369.6	367.5	359.3	351.0
152.5°	386.8	373.7	372.2	366.0	359.7
155°	392.9	383.0	381.8	377.3	372.7
157.5°	399.1	392.3	391.2	386.7	382.2
160°	401.9	396.5	395.6	392.1	388.6
162.5°	404.9	401.0	400.4	397.7	395.1
165°	409.2	407.4	406.8	404.4	402.1
167.5°	412.6	411.0	410.8	409.6	408.5
170°	415.4	415.3	415.0	413.8	412.8
172.5°	415.6	415.6	415.5	415.3	415.0
175°	417.3	418.1	418.1	418.1	418.1
177.5°	417.5	418.1	418.1	418.1	418.1
180°	418.1	418.1	418.1	418.1	418.1



TEST NUMBER: P934959

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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	15.15	16.11	16.01	16.99	18.10	17.94	18.91	18.80	19.79	20.90
	3H	15.63	16.50	16.50	17.39	18.52	19.29	20.16	20.16	21.05	22.18
	4H	15.83	16.65	16.72	17.54	18.69	19.73	20.55	20.62	21.45	22.59
	6H	15.95	16.71	16.85	17.61	18.77	20.01	20.77	20.91	21.67	22.83
	8H	15.96	16.68	16.87	17.60	18.76	20.09	20.81	20.99	21.73	22.88
	12H	15.93	16.62	16.85	17.53	18.72	20.12	20.81	21.04	21.72	22.91
4H	2H	16.19	17.00	17.08	17.90	19.05	18.37	19.19	19.26	20.08	21.23
	3H	17.22	17.90	18.12	18.83	19.99	19.87	20.56	20.78	21.49	22.65
	4H	17.50	18.12	18.42	19.05	20.23	20.40	21.02	21.32	21.95	23.13
	6H	17.63	18.17	18.56	19.12	20.31	20.76	21.30	21.69	22.25	23.43
	8H	17.64	18.14	18.57	19.09	20.29	20.87	21.37	21.80	22.31	23.51
	12H	17.61	18.07	18.57	19.03	20.23	20.92	21.38	21.88	22.34	23.54
8H	4H	17.96	18.46	18.89	19.40	20.60	20.53	21.04	21.47	21.98	23.18
	6H	18.23	18.64	19.18	19.62	20.82	20.97	21.38	21.92	22.37	23.56
	8H	18.27	18.64	19.24	19.61	20.83	21.11	21.48	22.08	22.46	23.67
	12H	18.26	18.58	19.23	19.55	20.81	21.21	21.54	22.18	22.50	23.77
12H	4H	17.97	18.42	18.92	19.38	20.59	20.50	20.96	21.45	21.92	23.12
	6H	18.29	18.65	19.25	19.63	20.84	20.97	21.33	21.93	22.31	23.52
	8H	18.36	18.68	19.33	19.65	20.91	21.13	21.45	22.10	22.42	23.68