

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: P935359

Luminaire Tested: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

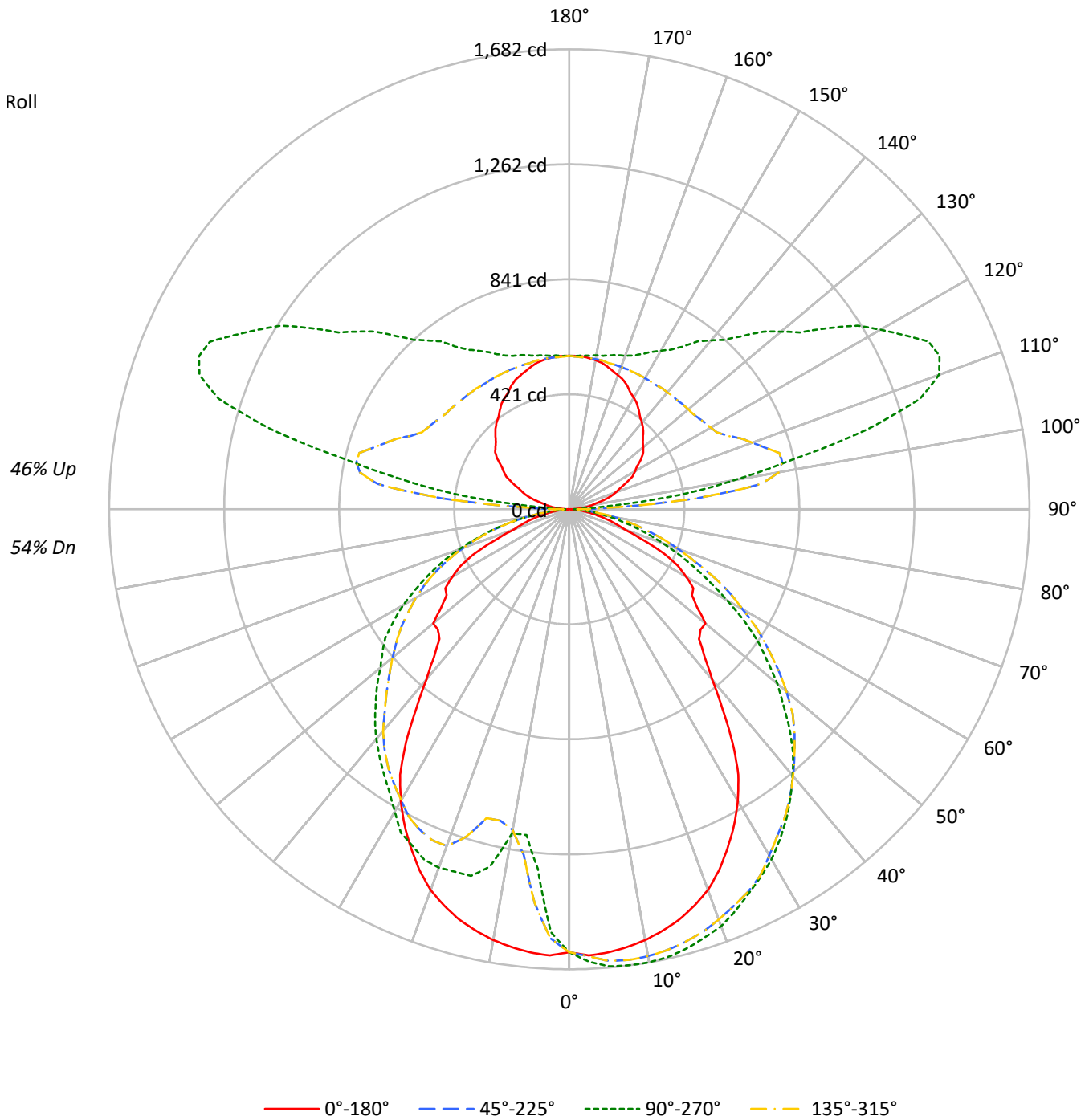
Test Method: LM-79-2019  
Report Number: P935359  
REPORT IS A COMBINATION OF REPORTS P933750 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7836.9 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 68.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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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°	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	1.9
10°-20°	415.0	5.3
20°-30°	641.5	8.2
30°-40°	765.8	9.8
40°-50°	770.3	9.8
50°-60°	670.2	8.6
60°-70°	475.2	6.1
70°-80°	251.4	3.2
80°-90°	64.8	0.8
90°-100°	273.4	3.5
100°-110°	718.9	9.2
110°-120°	745.4	9.5
120°-130°	597.9	7.6
130°-140°	469.2	6.0
140°-150°	360.1	4.6
150°-160°	259.3	3.3
160°-170°	158.7	2.0
170°-180°	53.6	0.7
0°-30°	1202.6	15.3
0°-40°	1968.4	25.1
0°-60°	3408.9	43.5
0°-90°	4200.3	53.6
90°-120°	1737.8	22.2
90°-150°	3165.0	40.4
90°-180°	3637.0	46.4
0°-180°	7836.9	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°	4	14	4	14	4	4
95°	36	165	36	165	36	40
105°	130	1126	130	1126	130	137
115°	230	1450	230	1450	230	227
125°	320	1154	320	1154	320	284
135°	381	896	381	896	381	295
145°	442	727	442	727	442	277
155°	500	626	500	626	500	230
165°	540	583	540	583	540	152
175°	561	565	561	565	561	53
180°	561	561	561	561	561	



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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°	3.8	6.8	9.8	10.5	16.6	24.6	28.6	25.4	19.1	14.3	14.3
92.5°	15.0	40.6	66.3	72.7	102.2	141.5	161.1	141.2	101.4	71.5	68.7
95°	36.1	83.0	129.9	141.6	251.4	397.7	471.0	420.3	318.9	242.9	234.3
97.5°	62.5	103.8	145.2	155.5	338.6	582.7	704.8	672.7	608.6	560.6	544.2
100°	82.8	120.3	157.8	167.2	370.4	641.3	776.7	779.1	783.7	787.2	767.7
102.5°	100.1	135.1	170.1	178.9	385.0	659.7	797.1	837.9	919.6	980.7	964.0
105°	129.5	159.1	188.7	196.1	395.7	661.8	794.8	886.3	1069.4	1206.7	1197.7
107.5°	159.7	187.3	214.9	221.8	397.7	632.3	749.6	877.3	1132.6	1324.2	1326.3
110°	179.9	204.9	229.8	236.1	394.7	606.2	711.9	854.7	1140.1	1354.2	1363.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	200.0	223.7	247.4	253.4	394.8	583.4	677.7	823.8	1115.9	1335.0	1349.4
115°	230.0	251.9	273.8	279.3	398.5	557.3	636.7	777.4	1058.9	1269.9	1289.9
117.5°	259.8	279.7	299.6	304.6	405.9	540.9	608.4	735.4	989.4	1180.0	1202.1
120°	277.1	295.8	314.5	319.3	411.8	535.4	597.1	713.2	945.3	1119.3	1140.9
122.5°	294.1	313.0	331.9	336.6	420.5	532.5	588.4	692.9	901.9	1058.7	1079.9
125°	320.1	337.3	354.5	358.8	432.2	530.1	579.0	667.8	845.3	978.5	998.0
127.5°	341.1	358.4	375.9	380.3	443.9	528.7	571.2	647.4	799.8	914.1	930.6
130°	352.4	371.1	389.9	394.6	452.4	529.6	568.2	636.1	771.7	873.5	888.7
132.5°	364.1	382.8	401.5	406.2	459.3	530.1	565.5	626.2	747.7	838.8	852.5
135°	381.4	398.5	415.6	419.8	466.9	529.6	561.0	611.9	713.5	789.8	801.6
137.5°	399.1	416.0	432.8	437.1	478.1	532.9	560.2	603.2	689.2	753.7	763.3
140°	413.7	429.3	444.9	448.8	485.1	533.4	557.6	594.7	669.0	724.8	733.7
142.5°	425.1	439.5	453.8	457.5	490.9	535.3	557.6	590.2	655.4	704.4	712.2
145°	442.4	454.9	467.4	470.6	498.4	535.4	553.9	580.6	633.9	673.9	679.8
147.5°	459.7	472.0	484.1	487.2	509.4	539.0	553.9	574.9	616.9	648.4	653.3
150°	471.0	482.0	493.0	495.8	515.2	541.0	553.9	571.6	607.0	633.6	637.5
152.5°	482.6	491.0	499.4	501.5	518.9	542.2	553.9	569.0	599.2	621.9	624.9
155°	500.0	506.2	512.4	514.0	527.3	545.0	553.9	565.9	590.0	608.0	610.0
157.5°	512.8	518.8	524.8	526.4	535.5	547.7	553.9	563.2	581.9	596.0	597.3
160°	521.5	526.2	530.8	532.0	539.3	549.0	553.9	561.9	577.9	590.0	590.8
162.5°	530.1	533.6	537.1	538.0	543.3	550.3	553.9	560.7	574.1	584.3	585.0
165°	539.5	542.6	545.8	546.6	549.1	552.2	553.9	558.8	568.4	575.7	576.5
167.5°	548.2	549.7	551.2	551.6	553.6	556.2	557.6	560.7	567.1	571.9	572.2
170°	553.9	555.3	556.9	557.2	557.3	557.5	557.6	560.7	567.1	571.9	571.9
172.5°	556.9	557.2	557.5	557.6	557.6	557.6	557.6	560.1	565.1	568.9	568.6
175°	561.0	561.0	561.0	561.0	559.8	558.3	557.6	559.2	562.4	564.7	564.7
177.5°	561.0	561.0	561.0	561.0	560.1	558.9	558.3	559.6	562.1	564.0	563.6
180°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0



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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°	14.3	14.3	14.3	14.3	14.3	19.1	25.4	28.6	24.6	16.6	10.5
92.5°	57.3	45.9	57.3	68.7	71.5	101.4	141.2	161.1	141.5	102.2	72.7
95°	199.8	165.3	199.8	234.3	242.9	318.9	420.3	471.0	397.7	251.4	141.6
97.5°	478.6	413.0	478.6	544.2	560.6	608.6	672.7	704.8	582.7	338.6	155.5
100°	689.6	611.4	689.6	767.7	787.2	783.7	779.1	776.7	641.3	370.4	167.2
102.5°	897.1	830.2	897.1	964.0	980.7	919.6	837.9	797.1	659.7	385.0	178.9
105°	1161.7	1125.7	1161.7	1197.7	1206.7	1069.4	886.3	794.8	661.8	395.7	196.1
107.5°	1335.0	1343.7	1335.0	1326.3	1324.2	1132.6	877.3	749.6	632.3	397.7	221.8
110°	1401.1	1438.6	1401.1	1363.6	1354.2	1140.1	854.7	711.9	606.2	394.7	236.1





TEST NUMBER: P935359

CATALOG NUMBER: SQ4-FA-100U-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°	1407.0	1464.6	1407.0	1349.4	1335.0	1115.9	823.8	677.7	583.4	394.8	253.4
115°	1369.7	1449.5	1369.7	1289.9	1269.9	1058.9	777.4	636.7	557.3	398.5	279.3
117.5°	1290.6	1379.1	1290.6	1202.1	1180.0	989.4	735.4	608.4	540.9	405.9	304.6
120°	1226.9	1312.8	1226.9	1140.9	1119.3	945.3	713.2	597.1	535.4	411.8	319.3
122.5°	1164.8	1249.6	1164.8	1079.9	1058.7	901.9	692.9	588.4	532.5	420.5	336.6
125°	1076.1	1154.4	1076.1	998.0	978.5	845.3	667.8	579.0	530.1	432.2	358.8
127.5°	996.6	1062.5	996.6	930.6	914.1	799.8	647.4	571.2	528.7	443.9	380.3
130°	949.6	1010.5	949.6	888.7	873.5	771.7	636.1	568.2	529.6	452.4	394.6
132.5°	907.0	961.6	907.0	852.5	838.8	747.7	626.2	565.5	530.1	459.3	406.2
135°	848.6	895.7	848.6	801.6	789.8	713.5	611.9	561.0	529.6	466.9	419.8
137.5°	801.9	840.4	801.9	763.3	753.7	689.2	603.2	560.2	532.9	478.1	437.1
140°	769.7	805.7	769.7	733.7	724.8	669.0	594.7	557.6	533.4	485.1	448.8
142.5°	743.1	774.1	743.1	712.2	704.4	655.4	590.2	557.6	535.3	490.9	457.5
145°	703.2	726.7	703.2	679.8	673.9	633.9	580.6	553.9	535.4	498.4	470.6
147.5°	672.6	692.0	672.6	653.3	648.4	616.9	574.9	553.9	539.0	509.4	487.2
150°	653.3	669.0	653.3	637.5	633.6	607.0	571.6	553.9	541.0	515.2	495.8
152.5°	636.8	648.7	636.8	624.9	621.9	599.2	569.0	553.9	542.2	518.9	501.5
155°	617.9	625.7	617.9	610.0	608.0	590.0	565.9	553.9	545.0	527.3	514.0
157.5°	602.9	608.4	602.9	597.3	596.0	581.9	563.2	553.9	547.7	535.5	526.4
160°	594.0	597.1	594.0	590.8	590.0	577.9	561.9	553.9	549.0	539.3	532.0
162.5°	588.1	591.1	588.1	585.0	584.3	574.1	560.7	553.9	550.3	543.3	538.0
165°	579.7	582.8	579.7	576.5	575.7	568.4	558.8	553.9	552.2	549.1	546.6
167.5°	573.5	574.9	573.5	572.2	571.9	567.1	560.7	557.6	556.2	553.6	551.6
170°	571.9	571.9	571.9	571.9	571.9	567.1	560.7	557.6	557.5	557.3	557.2
172.5°	567.4	566.3	567.4	568.6	568.9	565.1	560.1	557.6	557.6	557.6	557.6
175°	564.7	564.7	564.7	564.7	564.7	562.4	559.2	557.6	558.3	559.8	561.0
177.5°	562.4	561.0	562.4	563.6	564.0	562.1	559.6	558.3	558.9	560.1	561.0
180°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0



TEST NUMBER: P935359

CATALOG NUMBER: SQ4-FA-100U-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°	9.8	6.8	3.8	6.8	9.8	10.5	16.6	24.6	28.6	25.4	19.1
92.5°	66.3	40.6	15.0	40.6	66.3	72.7	102.2	141.5	161.1	141.2	101.4
95°	129.9	83.0	36.1	83.0	129.9	141.6	251.4	397.7	471.0	420.3	318.9
97.5°	145.2	103.8	62.5	103.8	145.2	155.5	338.6	582.7	704.8	672.7	608.6
100°	157.8	120.3	82.8	120.3	157.8	167.2	370.4	641.3	776.7	779.1	783.7
102.5°	170.1	135.1	100.1	135.1	170.1	178.9	385.0	659.7	797.1	837.9	919.6
105°	188.7	159.1	129.5	159.1	188.7	196.1	395.7	661.8	794.8	886.3	1069.4
107.5°	214.9	187.3	159.7	187.3	214.9	221.8	397.7	632.3	749.6	877.3	1132.6
110°	229.8	204.9	179.9	204.9	229.8	236.1	394.7	606.2	711.9	854.7	1140.1



TEST NUMBER: P935359

CATALOG NUMBER: SQ4-FA-100U-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°	247.4	223.7	200.0	223.7	247.4	253.4	394.8	583.4	677.7	823.8	1115.9
115°	273.8	251.9	230.0	251.9	273.8	279.3	398.5	557.3	636.7	777.4	1058.9
117.5°	299.6	279.7	259.8	279.7	299.6	304.6	405.9	540.9	608.4	735.4	989.4
120°	314.5	295.8	277.1	295.8	314.5	319.3	411.8	535.4	597.1	713.2	945.3
122.5°	331.9	313.0	294.1	313.0	331.9	336.6	420.5	532.5	588.4	692.9	901.9
125°	354.5	337.3	320.1	337.3	354.5	358.8	432.2	530.1	579.0	667.8	845.3
127.5°	375.9	358.4	341.1	358.4	375.9	380.3	443.9	528.7	571.2	647.4	799.8
130°	389.9	371.1	352.4	371.1	389.9	394.6	452.4	529.6	568.2	636.1	771.7
132.5°	401.5	382.8	364.1	382.8	401.5	406.2	459.3	530.1	565.5	626.2	747.7
135°	415.6	398.5	381.4	398.5	415.6	419.8	466.9	529.6	561.0	611.9	713.5
137.5°	432.8	416.0	399.1	416.0	432.8	437.1	478.1	532.9	560.2	603.2	689.2
140°	444.9	429.3	413.7	429.3	444.9	448.8	485.1	533.4	557.6	594.7	669.0
142.5°	453.8	439.5	425.1	439.5	453.8	457.5	490.9	535.3	557.6	590.2	655.4
145°	467.4	454.9	442.4	454.9	467.4	470.6	498.4	535.4	553.9	580.6	633.9
147.5°	484.1	472.0	459.7	472.0	484.1	487.2	509.4	539.0	553.9	574.9	616.9
150°	493.0	482.0	471.0	482.0	493.0	495.8	515.2	541.0	553.9	571.6	607.0
152.5°	499.4	491.0	482.6	491.0	499.4	501.5	518.9	542.2	553.9	569.0	599.2
155°	512.4	506.2	500.0	506.2	512.4	514.0	527.3	545.0	553.9	565.9	590.0
157.5°	524.8	518.8	512.8	518.8	524.8	526.4	535.5	547.7	553.9	563.2	581.9
160°	530.8	526.2	521.5	526.2	530.8	532.0	539.3	549.0	553.9	561.9	577.9
162.5°	537.1	533.6	530.1	533.6	537.1	538.0	543.3	550.3	553.9	560.7	574.1
165°	545.8	542.6	539.5	542.6	545.8	546.6	549.1	552.2	553.9	558.8	568.4
167.5°	551.2	549.7	548.2	549.7	551.2	551.6	553.6	556.2	557.6	560.7	567.1
170°	556.9	555.3	553.9	555.3	556.9	557.2	557.3	557.5	557.6	560.7	567.1
172.5°	557.5	557.2	556.9	557.2	557.5	557.6	557.6	557.6	557.6	560.1	565.1
175°	561.0	561.0	561.0	561.0	561.0	561.0	559.8	558.3	557.6	559.2	562.4
177.5°	561.0	561.0	561.0	561.0	561.0	561.0	560.1	558.9	558.3	559.6	562.1
180°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0



TEST NUMBER: P935359

CATALOG NUMBER: SQ4-FA-100U-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°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	19.1	25.4	28.6	24.6
92.5°	71.5	68.7	57.3	45.9	57.3	68.7	71.5	101.4	141.2	161.1	141.5
95°	242.9	234.3	199.8	165.3	199.8	234.3	242.9	318.9	420.3	471.0	397.7
97.5°	560.6	544.2	478.6	413.0	478.6	544.2	560.6	608.6	672.7	704.8	582.7
100°	787.2	767.7	689.6	611.4	689.6	767.7	787.2	783.7	779.1	776.7	641.3
102.5°	980.7	964.0	897.1	830.2	897.1	964.0	980.7	919.6	837.9	797.1	659.7
105°	1206.7	1197.7	1161.7	1125.7	1161.7	1197.7	1206.7	1069.4	886.3	794.8	661.8
107.5°	1324.2	1326.3	1335.0	1343.7	1335.0	1326.3	1324.2	1132.6	877.3	749.6	632.3
110°	1354.2	1363.6	1401.1	1438.6	1401.1	1363.6	1354.2	1140.1	854.7	711.9	606.2



TEST NUMBER: P935359

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1335.0	1349.4	1407.0	1464.6	1407.0	1349.4	1335.0	1115.9	823.8	677.7	583.4
115°	1269.9	1289.9	1369.7	1449.5	1369.7	1289.9	1269.9	1058.9	777.4	636.7	557.3
117.5°	1180.0	1202.1	1290.6	1379.1	1290.6	1202.1	1180.0	989.4	735.4	608.4	540.9
120°	1119.3	1140.9	1226.9	1312.8	1226.9	1140.9	1119.3	945.3	713.2	597.1	535.4
122.5°	1058.7	1079.9	1164.8	1249.6	1164.8	1079.9	1058.7	901.9	692.9	588.4	532.5
125°	978.5	998.0	1076.1	1154.4	1076.1	998.0	978.5	845.3	667.8	579.0	530.1
127.5°	914.1	930.6	996.6	1062.5	996.6	930.6	914.1	799.8	647.4	571.2	528.7
130°	873.5	888.7	949.6	1010.5	949.6	888.7	873.5	771.7	636.1	568.2	529.6
132.5°	838.8	852.5	907.0	961.6	907.0	852.5	838.8	747.7	626.2	565.5	530.1
135°	789.8	801.6	848.6	895.7	848.6	801.6	789.8	713.5	611.9	561.0	529.6
137.5°	753.7	763.3	801.9	840.4	801.9	763.3	753.7	689.2	603.2	560.2	532.9
140°	724.8	733.7	769.7	805.7	769.7	733.7	724.8	669.0	594.7	557.6	533.4
142.5°	704.4	712.2	743.1	774.1	743.1	712.2	704.4	655.4	590.2	557.6	535.3
145°	673.9	679.8	703.2	726.7	703.2	679.8	673.9	633.9	580.6	553.9	535.4
147.5°	648.4	653.3	672.6	692.0	672.6	653.3	648.4	616.9	574.9	553.9	539.0
150°	633.6	637.5	653.3	669.0	653.3	637.5	633.6	607.0	571.6	553.9	541.0
152.5°	621.9	624.9	636.8	648.7	636.8	624.9	621.9	599.2	569.0	553.9	542.2
155°	608.0	610.0	617.9	625.7	617.9	610.0	608.0	590.0	565.9	553.9	545.0
157.5°	596.0	597.3	602.9	608.4	602.9	597.3	596.0	581.9	563.2	553.9	547.7
160°	590.0	590.8	594.0	597.1	594.0	590.8	590.0	577.9	561.9	553.9	549.0
162.5°	584.3	585.0	588.1	591.1	588.1	585.0	584.3	574.1	560.7	553.9	550.3
165°	575.7	576.5	579.7	582.8	579.7	576.5	575.7	568.4	558.8	553.9	552.2
167.5°	571.9	572.2	573.5	574.9	573.5	572.2	571.9	567.1	560.7	557.6	556.2
170°	571.9	571.9	571.9	571.9	571.9	571.9	571.9	567.1	560.7	557.6	557.5
172.5°	568.9	568.6	567.4	566.3	567.4	568.6	568.9	565.1	560.1	557.6	557.6
175°	564.7	564.7	564.7	564.7	564.7	564.7	564.7	562.4	559.2	557.6	558.3
177.5°	564.0	563.6	562.4	561.0	562.4	563.6	564.0	562.1	559.6	558.3	558.9
180°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0



TEST NUMBER: P935359

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-4000K

**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°	16.6	10.5	9.8	6.8	3.8
92.5°	102.2	72.7	66.3	40.6	15.0
95°	251.4	141.6	129.9	83.0	36.1
97.5°	338.6	155.5	145.2	103.8	62.5
100°	370.4	167.2	157.8	120.3	82.8
102.5°	385.0	178.9	170.1	135.1	100.1
105°	395.7	196.1	188.7	159.1	129.5
107.5°	397.7	221.8	214.9	187.3	159.7
110°	394.7	236.1	229.8	204.9	179.9



TEST NUMBER: P935359

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	394.8	253.4	247.4	223.7	200.0
115°	398.5	279.3	273.8	251.9	230.0
117.5°	405.9	304.6	299.6	279.7	259.8
120°	411.8	319.3	314.5	295.8	277.1
122.5°	420.5	336.6	331.9	313.0	294.1
125°	432.2	358.8	354.5	337.3	320.1
127.5°	443.9	380.3	375.9	358.4	341.1
130°	452.4	394.6	389.9	371.1	352.4
132.5°	459.3	406.2	401.5	382.8	364.1
135°	466.9	419.8	415.6	398.5	381.4
137.5°	478.1	437.1	432.8	416.0	399.1
140°	485.1	448.8	444.9	429.3	413.7
142.5°	490.9	457.5	453.8	439.5	425.1
145°	498.4	470.6	467.4	454.9	442.4
147.5°	509.4	487.2	484.1	472.0	459.7
150°	515.2	495.8	493.0	482.0	471.0
152.5°	518.9	501.5	499.4	491.0	482.6
155°	527.3	514.0	512.4	506.2	500.0
157.5°	535.5	526.4	524.8	518.8	512.8
160°	539.3	532.0	530.8	526.2	521.5
162.5°	543.3	538.0	537.1	533.6	530.1
165°	549.1	546.6	545.8	542.6	539.5
167.5°	553.6	551.6	551.2	549.7	548.2
170°	557.3	557.2	556.9	555.3	553.9
172.5°	557.6	557.6	557.5	557.2	556.9
175°	559.8	561.0	561.0	561.0	561.0
177.5°	560.1	561.0	561.0	561.0	561.0
180°	561.0	561.0	561.0	561.0	561.0



TEST NUMBER: P935359  
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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	14.53	15.43	15.46	16.37	17.59	17.33	18.23	18.26	19.17	20.39
	3H	15.01	15.82	15.95	16.77	18.01	18.67	19.47	19.61	20.42	21.67
	4H	15.21	15.97	16.16	16.92	18.17	19.11	19.87	20.06	20.83	22.08
	6H	15.33	16.03	16.29	16.99	18.25	19.39	20.09	20.35	21.05	22.31
	8H	15.33	16.00	16.30	16.98	18.24	19.46	20.12	20.43	21.11	22.37
	12H	15.30	15.94	16.28	16.91	18.20	19.50	20.13	20.47	21.10	22.39
4H	2H	15.56	16.32	16.52	17.28	18.53	17.75	18.51	18.70	19.46	20.71
	3H	16.59	17.22	17.56	18.21	19.48	19.25	19.88	20.21	20.87	22.13
	4H	16.87	17.45	17.85	18.43	19.72	19.77	20.35	20.75	21.33	22.62
	6H	17.00	17.50	17.99	18.50	19.79	20.13	20.63	21.12	21.63	22.92
	8H	17.01	17.47	18.00	18.47	19.77	20.23	20.70	21.22	21.69	23.00
	12H	16.97	17.39	17.98	18.41	19.72	20.28	20.70	21.29	21.72	23.03
8H	4H	17.32	17.79	18.31	18.78	20.09	19.90	20.36	20.89	21.36	22.66
	6H	17.59	17.97	18.60	19.01	20.31	20.33	20.71	21.34	21.75	23.05
	8H	17.63	17.97	18.65	18.99	20.31	20.47	20.81	21.50	21.84	23.16
	12H	17.61	17.91	18.64	18.93	20.30	20.57	20.87	21.60	21.89	23.25
12H	4H	17.33	17.75	18.34	18.76	20.07	19.86	20.28	20.87	21.30	22.61
	6H	17.64	17.98	18.67	19.01	20.33	20.32	20.66	21.35	21.69	23.01
	8H	17.71	18.01	18.74	19.03	20.40	20.48	20.78	21.51	21.80	23.17