

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: P935374

Luminaire Tested: SQ4-FA-100U-125D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

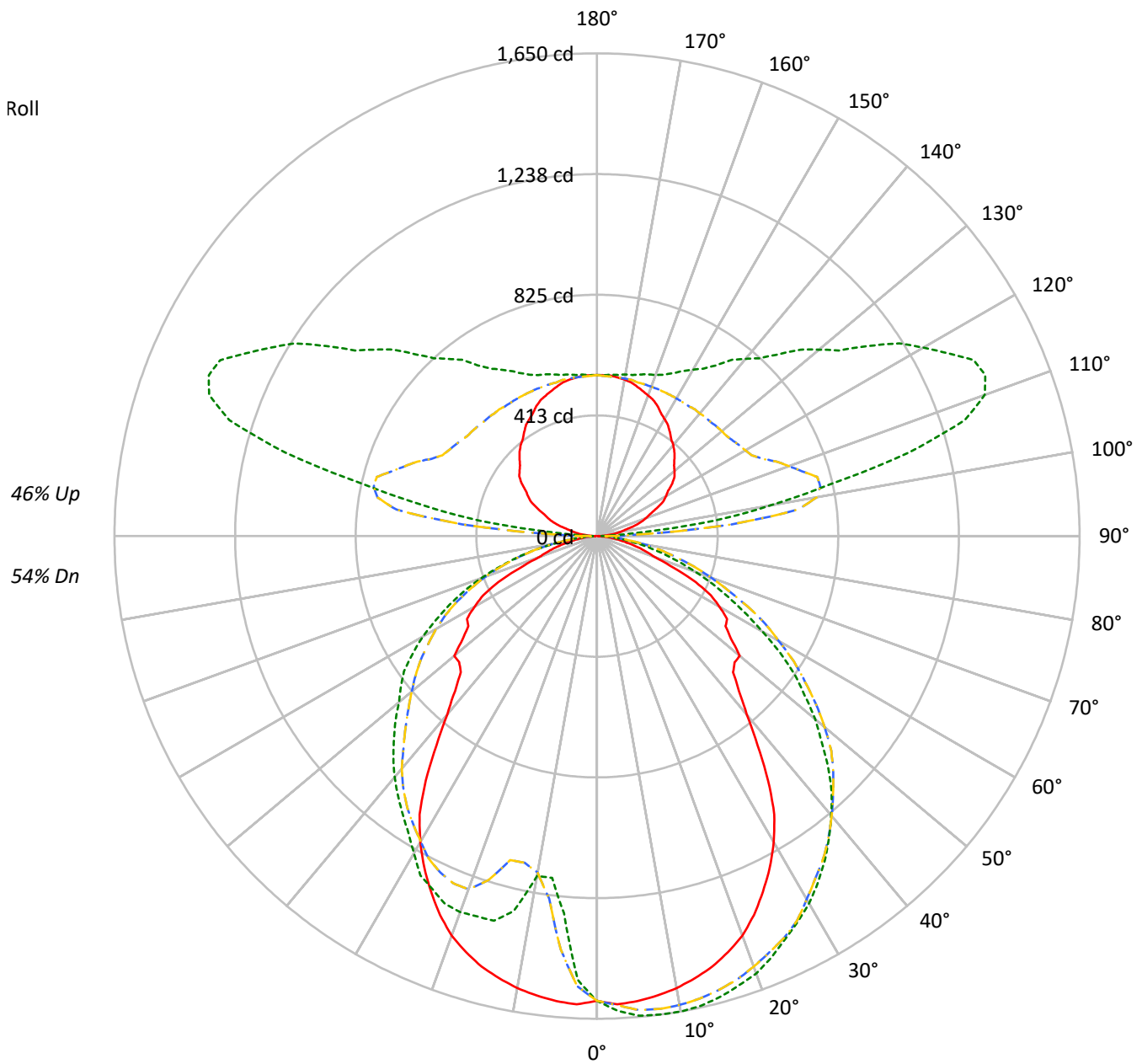
Test Method: LM-79-2019  
Report Number: P935374  
REPORT IS A COMBINATION OF REPORTS P933750 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-125D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7688.3 lumens  
Efficiency: N/A  
Efficacy: 111.7 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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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - · - · 90°-270°    - · - · 135°-315°



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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	50	30	10	0
RCR																					
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54			54
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45			45
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38			38
3	82	72	65	59	76	67	61	56	58	53	49	49	46	42	41	38	36	32			32
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28			28
5	69	57	49	43	64	53	46	41	46	40	36	39	35	31	33	30	27	24			24
6	63	51	43	37	59	48	41	35	41	36	31	35	31	28	30	26	24	21			21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19			19
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	22	19	17			17
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15			15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13			13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	14740	14740	14740	14740
5°	14833	14879	14833	11699
10°	14718	14657	14718	10478
15°	14541	14339	14541	11973
20°	14221	13963	14221	11998
25°	13581	13414	13581	11744
30°	12761	12959	12761	11186
35°	11360	12382	11360	10573
40°	9449	11704	9449	10109
45°	8427	10910	8427	9576
50°	8931	9963	8931	9040
55°	8380	8943	8380	8731
60°	8608	7595	8608	7997
65°	7767	6280	7767	7019
70°	5341	5004	5341	5882
75°	4634	3698	4634	4430
80°	3655	2444	3655	2661
85°	1996	1295	1996	1101

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 12940 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.4	1.9
10°-20°	407.1	5.3
20°-30°	629.3	8.2
30°-40°	751.3	9.8
40°-50°	755.7	9.8
50°-60°	657.5	8.6
60°-70°	466.2	6.1
70°-80°	246.6	3.2
80°-90°	63.5	0.8
90°-100°	268.3	3.5
100°-110°	705.3	9.2
110°-120°	731.3	9.5
120°-130°	586.6	7.6
130°-140°	460.3	6.0
140°-150°	353.3	4.6
150°-160°	254.4	3.3
160°-170°	155.7	2.0
170°-180°	52.6	0.7
0°-30°	1179.8	15.3
0°-40°	1931.1	25.1
0°-60°	3344.3	43.5
0°-90°	4120.6	53.6
90°-120°	1704.8	22.2
90°-150°	3105.0	40.4
90°-180°	3568.0	46.4
0°-180°	7688.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1588	1588	1588	1588	1588	
5°	1596	1646	1596	1294	1596	151
15°	1524	1630	1524	1362	1524	429
25°	1342	1521	1342	1332	1342	616
35°	1020	1357	1020	1159	1020	631
45°	658	1118	658	981	658	527
55°	536	825	536	806	536	493
65°	373	498	373	556	373	356
75°	141	236	141	283	141	149
85°	24	60	24	51	24	32
90°	4	14	4	14	4	4
95°	35	162	35	162	35	39
105°	127	1104	127	1104	127	135
115°	226	1422	226	1422	226	223
125°	314	1132	314	1132	314	279
135°	374	879	374	879	374	289
145°	434	713	434	713	434	272
155°	490	614	490	614	490	225
165°	529	572	529	572	529	149
175°	550	554	550	554	550	52
180°	550	550	550	550	550	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1602.0	1602.0	1611.0	1614.0	1614.0	1609.5	1605.0	1609.5	1623.0	1627.5	1626.0
5°	1595.9	1608.0	1624.5	1627.5	1630.5	1629.0	1626.0	1629.0	1644.0	1647.1	1648.6
7.5°	1583.9	1606.5	1627.5	1632.1	1636.5	1632.1	1630.5	1633.6	1648.6	1651.6	1651.6
10°	1568.9	1600.4	1624.5	1627.5	1632.1	1627.5	1627.5	1633.6	1648.6	1651.6	1653.1
12.5°	1547.9	1591.5	1614.0	1617.0	1623.0	1621.5	1620.0	1626.0	1641.0	1644.0	1644.0
15°	1523.8	1575.0	1595.9	1598.9	1609.5	1606.5	1606.5	1612.5	1629.0	1633.6	1632.1
17.5°	1490.8	1553.9	1577.9	1582.4	1590.0	1588.5	1590.0	1595.9	1611.0	1614.0	1615.4
20°	1453.2	1525.3	1553.9	1558.4	1565.9	1565.9	1565.9	1573.4	1588.5	1594.5	1594.5
22.5°	1402.1	1495.3	1525.3	1528.3	1537.3	1537.3	1540.3	1550.9	1564.4	1565.9	1565.9
25°	1341.9	1462.2	1487.8	1496.8	1505.8	1510.3	1514.8	1520.8	1525.3	1523.8	1525.3
27.5°	1278.9	1420.1	1453.2	1459.2	1471.2	1475.8	1481.7	1483.2	1484.7	1489.3	1486.2
30°	1208.2	1361.5	1411.1	1417.2	1436.7	1439.6	1433.7	1436.7	1444.2	1447.2	1450.2
32.5°	1128.6	1274.4	1367.5	1381.0	1399.1	1390.1	1388.6	1393.1	1405.1	1405.1	1408.1
35°	1020.4	1206.7	1326.9	1339.0	1352.5	1341.9	1348.0	1349.5	1357.0	1361.5	1360.1
37.5°	901.7	1148.1	1284.8	1293.9	1304.4	1290.9	1299.9	1304.4	1310.4	1307.4	1307.4
40°	796.4	1056.5	1235.3	1241.3	1250.3	1239.8	1248.8	1251.8	1254.8	1251.8	1250.3
42.5°	718.3	955.8	1182.7	1190.2	1184.1	1191.7	1194.7	1200.8	1196.2	1190.2	1190.2
45°	658.2	928.8	1125.5	1134.6	1125.5	1137.6	1142.1	1142.1	1128.6	1125.5	1124.1
47.5°	638.6	874.6	1068.4	1068.4	1064.0	1079.0	1086.5	1076.0	1062.5	1058.0	1058.0
50°	637.1	814.5	990.3	984.3	1005.4	1023.4	1015.9	1005.4	994.8	978.3	978.3
52.5°	578.5	740.9	889.7	912.2	945.3	955.8	943.8	933.2	915.2	907.7	901.7
55°	536.5	664.2	798.0	843.1	877.6	891.1	868.6	858.1	831.1	826.6	823.5
57.5°	527.5	553.0	713.9	771.0	813.0	811.5	798.0	778.4	755.9	751.4	749.9
60°	483.9	399.8	623.6	691.3	734.8	730.4	718.3	700.3	679.2	676.2	673.3
62.5°	438.8	290.0	521.4	598.1	659.7	658.2	647.7	620.6	605.6	598.1	592.1
65°	372.7	243.5	371.2	497.5	586.1	589.1	566.5	547.0	530.5	521.4	519.9
67.5°	284.0	198.4	250.9	414.8	515.5	512.5	483.9	474.9	453.9	449.3	440.4
70°	210.4	132.2	174.3	336.6	446.3	438.8	416.3	405.7	386.2	375.7	369.7
72.5°	174.3	106.7	127.7	261.5	375.7	366.7	347.1	335.1	318.6	309.6	303.5
75°	141.3	112.7	97.7	193.9	305.0	299.1	281.1	269.0	255.5	243.5	244.9
77.5°	103.7	105.2	78.1	142.8	242.0	232.9	222.4	207.3	201.4	189.3	189.3
80°	78.1	82.7	58.6	97.7	174.3	174.3	165.3	154.8	144.3	138.3	138.3
82.5°	52.6	52.6	43.6	61.6	118.7	114.2	108.2	105.2	99.2	96.2	96.2
85°	24.1	30.0	27.1	37.6	64.6	67.7	67.7	64.6	63.1	60.1	61.6
87.5°	7.5	13.5	16.5	21.0	33.0	34.5	36.1	36.1	36.1	37.6	37.6
90°	3.7	6.7	9.6	10.3	16.3	24.2	28.1	25.0	18.7	14.0	14.0
92.5°	14.7	39.9	65.0	71.3	100.3	138.8	158.1	138.5	99.5	70.2	67.4
95°	35.4	81.4	127.4	138.9	246.6	390.2	462.0	412.3	312.8	238.3	229.8
97.5°	61.3	101.9	142.4	152.6	332.2	571.7	691.4	660.0	597.1	549.9	533.9
100°	81.3	118.0	154.8	164.0	363.4	629.1	762.0	764.3	768.8	772.3	753.1
102.5°	98.2	132.6	166.9	175.5	377.7	647.2	782.0	822.0	902.1	962.1	945.7
105°	127.1	156.1	185.1	192.4	388.2	649.2	779.8	869.5	1049.1	1183.8	1175.0
107.5°	156.6	183.7	210.8	217.6	390.2	620.3	735.4	860.6	1111.2	1299.1	1301.2
110°	176.5	201.0	225.5	231.6	387.2	594.7	698.4	838.4	1118.5	1328.5	1337.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	196.2	219.4	242.7	248.6	387.3	572.3	664.8	808.2	1094.7	1309.7	1323.8
115°	225.6	247.1	268.6	274.0	390.9	546.7	624.6	762.7	1038.8	1245.9	1265.4
117.5°	254.9	274.4	293.9	298.8	398.2	530.7	596.9	721.5	970.7	1157.6	1179.3
120°	271.8	290.2	308.6	313.2	404.0	525.3	585.8	699.7	927.3	1098.1	1119.2
122.5°	288.5	307.1	325.6	330.2	412.6	522.4	577.3	679.8	884.8	1038.6	1059.4
125°	314.0	330.9	347.7	352.0	424.0	520.0	568.1	655.2	829.3	959.9	979.1
127.5°	334.6	351.6	368.8	373.0	435.5	518.7	560.3	635.1	784.6	896.8	913.0
130°	345.7	364.1	382.5	387.1	443.8	519.6	557.4	624.0	757.1	856.9	871.8
132.5°	357.2	375.5	393.9	398.5	450.6	520.0	554.7	614.3	733.5	822.9	836.3
135°	374.2	390.9	407.7	411.9	458.0	519.6	550.4	600.3	700.0	774.9	786.4
137.5°	391.5	408.1	424.6	428.8	469.0	522.8	549.6	591.8	676.1	739.4	748.9
140°	405.9	421.2	436.5	440.3	475.9	523.3	547.0	583.4	656.3	711.0	719.8
142.5°	417.0	431.1	445.2	448.8	481.6	525.2	547.0	579.0	643.0	691.0	698.7
145°	434.0	446.3	458.6	461.7	488.9	525.3	543.4	569.6	621.9	661.1	666.9
147.5°	451.0	463.0	474.9	477.9	499.8	528.8	543.4	564.0	605.2	636.1	640.9
150°	462.0	472.9	483.7	486.4	505.4	530.8	543.4	560.8	595.5	621.6	625.4
152.5°	473.5	481.7	489.9	492.0	509.1	531.9	543.4	558.2	587.9	610.1	613.1
155°	490.5	496.6	502.7	504.2	517.3	534.7	543.4	555.2	578.8	596.5	598.4
157.5°	503.1	509.0	514.9	516.4	525.3	537.3	543.4	552.5	570.9	584.7	586.0
160°	511.6	516.2	520.7	521.9	529.1	538.6	543.4	551.3	567.0	578.8	579.6
162.5°	520.0	523.5	526.9	527.8	533.0	539.9	543.4	550.0	563.3	573.2	573.9
165°	529.2	532.4	535.5	536.3	538.7	541.8	543.4	548.2	557.7	564.8	565.6
167.5°	537.8	539.3	540.8	541.1	543.1	545.7	547.0	550.1	556.3	561.0	561.4
170°	543.4	544.8	546.3	546.7	546.7	546.9	547.0	550.1	556.3	561.0	561.0
172.5°	546.3	546.7	546.9	547.0	547.0	547.0	547.0	549.5	554.4	558.1	557.8
175°	550.4	550.4	550.4	550.4	549.2	547.7	547.0	548.6	551.7	554.0	554.0
177.5°	550.4	550.4	550.4	550.4	549.5	548.3	547.7	549.0	551.4	553.3	553.0
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1629.0	1624.5	1629.0	1626.0	1627.5	1623.0	1609.5	1605.0	1609.5	1614.0	1614.0
5°	1648.6	1645.6	1648.6	1648.6	1647.1	1644.0	1629.0	1626.0	1629.0	1630.5	1627.5
7.5°	1654.5	1650.1	1654.5	1651.6	1651.6	1648.6	1633.6	1630.5	1632.1	1636.5	1632.1
10°	1654.5	1650.1	1654.5	1653.1	1651.6	1648.6	1633.6	1627.5	1627.5	1632.1	1627.5
12.5°	1647.1	1644.0	1647.1	1644.0	1644.0	1641.0	1626.0	1620.0	1621.5	1623.0	1617.0
15°	1635.0	1630.5	1635.0	1632.1	1633.6	1629.0	1612.5	1606.5	1606.5	1609.5	1598.9
17.5°	1617.0	1611.0	1617.0	1615.4	1614.0	1611.0	1595.9	1590.0	1588.5	1590.0	1582.4
20°	1595.9	1591.5	1595.9	1594.5	1594.5	1588.5	1573.4	1565.9	1565.9	1565.9	1558.4
22.5°	1562.9	1558.4	1562.9	1565.9	1565.9	1564.4	1550.9	1540.3	1537.3	1537.3	1528.3
25°	1525.3	1520.8	1525.3	1525.3	1523.8	1525.3	1520.8	1514.8	1510.3	1505.8	1496.8
27.5°	1489.3	1486.2	1489.3	1486.2	1489.3	1484.7	1483.2	1481.7	1475.8	1471.2	1459.2
30°	1453.2	1450.2	1453.2	1450.2	1447.2	1444.2	1436.7	1433.7	1439.6	1436.7	1417.2
32.5°	1408.1	1405.1	1408.1	1408.1	1405.1	1405.1	1393.1	1388.6	1390.1	1399.1	1381.0
35°	1361.5	1357.0	1361.5	1360.1	1361.5	1357.0	1349.5	1348.0	1341.9	1352.5	1339.0
37.5°	1307.4	1302.9	1307.4	1307.4	1307.4	1310.4	1304.4	1299.9	1290.9	1304.4	1293.9
40°	1251.8	1245.8	1251.8	1250.3	1251.8	1254.8	1251.8	1248.8	1239.8	1250.3	1241.3
42.5°	1188.7	1187.2	1188.7	1190.2	1190.2	1196.2	1200.8	1194.7	1191.7	1184.1	1190.2
45°	1121.1	1118.1	1121.1	1124.1	1125.5	1128.6	1142.1	1142.1	1137.6	1125.5	1134.6
47.5°	1048.9	1041.4	1048.9	1058.0	1058.0	1062.5	1076.0	1086.5	1079.0	1064.0	1068.4
50°	972.3	973.8	972.3	978.3	978.3	994.8	1005.4	1015.9	1023.4	1005.4	984.3
52.5°	897.1	895.6	897.1	901.7	907.7	915.2	933.2	943.8	955.8	945.3	912.2
55°	822.0	825.0	822.0	823.5	826.6	831.1	858.1	868.6	891.1	877.6	843.1
57.5°	746.9	742.4	746.9	749.9	751.4	755.9	778.4	798.0	811.5	813.0	771.0
60°	659.7	653.7	659.7	673.3	676.2	679.2	700.3	718.3	730.4	734.8	691.3
62.5°	583.1	572.6	583.1	592.1	598.1	605.6	620.6	647.7	658.2	659.7	598.1
65°	501.9	497.5	501.9	519.9	521.4	530.5	547.0	566.5	589.1	586.1	497.5
67.5°	428.3	428.3	428.3	440.4	449.3	453.9	474.9	483.9	512.5	515.5	414.8
70°	360.7	359.2	360.7	369.7	375.7	386.2	405.7	416.3	438.8	446.3	336.6
72.5°	296.1	294.5	296.1	303.5	309.6	318.6	335.1	347.1	366.7	375.7	261.5
75°	239.0	235.9	239.0	244.9	243.5	255.5	269.0	281.1	299.1	305.0	193.9
77.5°	183.4	183.4	183.4	189.3	189.3	201.4	207.3	222.4	232.9	242.0	142.8
80°	136.8	135.2	136.8	138.3	138.3	144.3	154.8	165.3	174.3	174.3	97.7
82.5°	96.2	93.2	96.2	96.2	96.2	99.2	105.2	108.2	114.2	118.7	61.6
85°	60.1	60.1	60.1	61.6	60.1	63.1	64.6	67.7	67.7	64.6	37.6
87.5°	39.1	37.6	39.1	37.6	37.6	36.1	36.1	36.1	34.5	33.0	21.0
90°	14.0	14.0	14.0	14.0	14.0	18.7	25.0	28.1	24.2	16.3	10.3
92.5°	56.2	45.0	56.2	67.4	70.2	99.5	138.5	158.1	138.8	100.3	71.3
95°	196.0	162.1	196.0	229.8	238.3	312.8	412.3	462.0	390.2	246.6	138.9
97.5°	469.5	405.2	469.5	533.9	549.9	597.1	660.0	691.4	571.7	332.2	152.6
100°	676.5	599.8	676.5	753.1	772.3	768.8	764.3	762.0	629.1	363.4	164.0
102.5°	880.1	814.5	880.1	945.7	962.1	902.1	822.0	782.0	647.2	377.7	175.5
105°	1139.7	1104.4	1139.7	1175.0	1183.8	1049.1	869.5	779.8	649.2	388.2	192.4
107.5°	1309.7	1318.2	1309.7	1301.2	1299.1	1111.2	860.6	735.4	620.3	390.2	217.6
110°	1374.5	1411.3	1374.5	1337.8	1328.5	1118.5	838.4	698.4	594.7	387.2	231.6





TEST NUMBER: P935374

CATALOG NUMBER: SQ4-FA-100U-125D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1380.3	1436.8	1380.3	1323.8	1309.7	1094.7	808.2	664.8	572.3	387.3	248.6
115°	1343.7	1422.0	1343.7	1265.4	1245.9	1038.8	762.7	624.6	546.7	390.9	274.0
117.5°	1266.1	1353.0	1266.1	1179.3	1157.6	970.7	721.5	596.9	530.7	398.2	298.8
120°	1203.6	1288.0	1203.6	1119.2	1098.1	927.3	699.7	585.8	525.3	404.0	313.2
122.5°	1142.7	1225.9	1142.7	1059.4	1038.6	884.8	679.8	577.3	522.4	412.6	330.2
125°	1055.7	1132.5	1055.7	979.1	959.9	829.3	655.2	568.1	520.0	424.0	352.0
127.5°	977.7	1042.3	977.7	913.0	896.8	784.6	635.1	560.3	518.7	435.5	373.0
130°	931.6	991.4	931.6	871.8	856.9	757.1	624.0	557.4	519.6	443.8	387.1
132.5°	889.8	943.3	889.8	836.3	822.9	733.5	614.3	554.7	520.0	450.6	398.5
135°	832.5	878.7	832.5	786.4	774.9	700.0	600.3	550.4	519.6	458.0	411.9
137.5°	786.7	824.4	786.7	748.9	739.4	676.1	591.8	549.6	522.8	469.0	428.8
140°	755.2	790.4	755.2	719.8	711.0	656.3	583.4	547.0	523.3	475.9	440.3
142.5°	729.0	759.4	729.0	698.7	691.0	643.0	579.0	547.0	525.2	481.6	448.8
145°	689.9	712.9	689.9	666.9	661.1	621.9	569.6	543.4	525.3	488.9	461.7
147.5°	659.9	678.9	659.9	640.9	636.1	605.2	564.0	543.4	528.8	499.8	477.9
150°	640.9	656.3	640.9	625.4	621.6	595.5	560.8	543.4	530.8	505.4	486.4
152.5°	624.7	636.4	624.7	613.1	610.1	587.9	558.2	543.4	531.9	509.1	492.0
155°	606.1	613.9	606.1	598.4	596.5	578.8	555.2	543.4	534.7	517.3	504.2
157.5°	591.5	596.9	591.5	586.0	584.7	570.9	552.5	543.4	537.3	525.3	516.4
160°	582.7	585.8	582.7	579.6	578.8	567.0	551.3	543.4	538.6	529.1	521.9
162.5°	576.9	579.9	576.9	573.9	573.2	563.3	550.0	543.4	539.9	533.0	527.8
165°	568.7	571.8	568.7	565.6	564.8	557.7	548.2	543.4	541.8	538.7	536.3
167.5°	562.6	564.0	562.6	561.4	561.0	556.3	550.1	547.0	545.7	543.1	541.1
170°	561.0	561.0	561.0	561.0	561.0	556.3	550.1	547.0	546.9	546.7	546.7
172.5°	556.7	555.5	556.7	557.8	558.1	554.4	549.5	547.0	547.0	547.0	547.0
175°	554.0	554.0	554.0	554.0	554.0	551.7	548.6	547.0	547.7	549.2	550.4
177.5°	551.7	550.4	551.7	553.0	553.3	551.4	549.0	547.7	548.3	549.5	550.4
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935374

CATALOG NUMBER: SQ4-FA-100U-125D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1611.0	1602.0	1602.0	1586.9	1580.9	1576.4	1568.9	1546.4	1540.3	1534.4	1543.3
5°	1624.5	1608.0	1595.9	1568.9	1546.4	1537.3	1508.8	1454.7	1418.7	1391.6	1376.6
7.5°	1627.5	1606.5	1583.9	1541.8	1487.8	1463.7	1376.6	1277.4	1250.3	1226.2	1211.2
10°	1624.5	1600.4	1568.9	1505.8	1378.1	1336.0	1248.8	1184.1	1167.6	1163.2	1167.6
12.5°	1614.0	1591.5	1547.9	1442.6	1263.8	1235.3	1184.1	1146.6	1143.7	1151.1	1191.7
15°	1595.9	1575.0	1523.8	1358.6	1200.8	1179.7	1143.7	1130.1	1146.6	1199.2	1321.0
17.5°	1577.9	1553.9	1490.8	1275.9	1152.6	1137.6	1112.0	1139.1	1232.3	1302.9	1343.5
20°	1553.9	1525.3	1453.2	1215.8	1118.1	1104.6	1092.5	1214.3	1284.8	1310.4	1333.0
22.5°	1525.3	1495.3	1402.1	1173.7	1082.0	1071.5	1079.0	1256.3	1284.8	1302.9	1322.4
25°	1487.8	1462.2	1341.9	1140.6	1053.4	1041.4	1070.0	1251.8	1268.3	1272.9	1311.9
27.5°	1453.2	1420.1	1278.9	1110.5	1018.9	1014.4	1077.5	1232.3	1244.3	1248.8	1290.9
30°	1411.1	1361.5	1208.2	1079.0	982.8	981.3	1079.0	1208.2	1205.2	1217.3	1259.4
32.5°	1367.5	1274.4	1128.6	1039.9	948.3	946.8	1068.4	1172.2	1169.1	1185.7	1217.3
35°	1326.9	1206.7	1020.4	994.8	904.7	906.2	1043.0	1130.1	1131.6	1146.6	1166.1
37.5°	1284.8	1148.1	901.7	945.3	862.6	862.6	1008.3	1091.0	1088.0	1092.5	1119.6
40°	1235.3	1056.5	796.4	880.6	823.5	819.0	966.3	1048.9	1038.4	1036.9	1074.5
42.5°	1182.7	955.8	718.3	794.9	778.4	772.5	915.2	997.8	978.3	982.8	1030.9
45°	1125.5	928.8	658.2	671.8	731.9	727.4	859.6	939.2	925.7	937.7	987.4
47.5°	1068.4	874.6	638.6	557.6	682.3	680.7	798.0	882.1	874.6	886.7	939.2
50°	990.3	814.5	637.1	477.9	626.7	632.7	724.3	826.6	826.6	837.0	892.6
52.5°	889.7	740.9	578.5	432.8	562.0	580.0	659.7	778.4	781.4	792.0	841.6
55°	798.0	664.2	536.5	398.3	485.4	524.5	596.6	728.9	734.8	745.4	790.5
57.5°	713.9	553.0	527.5	357.7	414.8	452.3	541.0	680.7	683.8	692.8	736.3
60°	623.6	399.8	483.9	314.1	353.2	381.7	489.9	623.6	634.2	640.2	677.7
62.5°	521.4	290.0	438.8	284.0	323.1	329.1	447.8	569.6	583.1	587.6	610.1
65°	371.2	243.5	372.7	258.5	291.5	293.0	402.7	514.0	526.0	533.5	550.0
67.5°	250.9	198.4	284.0	234.4	267.5	269.0	359.2	449.3	465.8	471.9	482.4
70°	174.3	132.2	210.4	208.9	240.5	243.5	312.6	390.7	405.7	410.3	416.3
72.5°	127.7	106.7	174.3	187.8	211.9	214.9	264.4	324.6	339.7	344.1	347.1
75°	97.7	112.7	141.3	163.8	180.4	181.9	216.4	264.4	275.0	278.0	279.5
77.5°	78.1	105.2	103.7	132.2	147.2	144.3	169.8	204.4	213.4	213.4	213.4
80°	58.6	82.7	78.1	94.7	108.2	105.2	121.7	145.8	148.7	151.8	150.2
82.5°	43.6	52.6	52.6	60.1	72.1	69.1	81.2	94.7	94.7	94.7	97.7
85°	27.1	30.0	24.1	31.5	40.6	39.1	45.1	51.1	52.6	52.6	49.6
87.5°	16.5	13.5	7.5	12.0	18.0	18.0	21.0	22.6	21.0	21.0	21.0
90°	9.6	6.7	3.7	6.7	9.6	10.3	16.3	24.2	28.1	25.0	18.7
92.5°	65.0	39.9	14.7	39.9	65.0	71.3	100.3	138.8	158.1	138.5	99.5
95°	127.4	81.4	35.4	81.4	127.4	138.9	246.6	390.2	462.0	412.3	312.8
97.5°	142.4	101.9	61.3	101.9	142.4	152.6	332.2	571.7	691.4	660.0	597.1
100°	154.8	118.0	81.3	118.0	154.8	164.0	363.4	629.1	762.0	764.3	768.8
102.5°	166.9	132.6	98.2	132.6	166.9	175.5	377.7	647.2	782.0	822.0	902.1
105°	185.1	156.1	127.1	156.1	185.1	192.4	388.2	649.2	779.8	869.5	1049.1
107.5°	210.8	183.7	156.6	183.7	210.8	217.6	390.2	620.3	735.4	860.6	1111.2
110°	225.5	201.0	176.5	201.0	225.5	231.6	387.2	594.7	698.4	838.4	1118.5



TEST NUMBER: P935374

CATALOG NUMBER: SQ4-FA-100U-125D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	242.7	219.4	196.2	219.4	242.7	248.6	387.3	572.3	664.8	808.2	1094.7
115°	268.6	247.1	225.6	247.1	268.6	274.0	390.9	546.7	624.6	762.7	1038.8
117.5°	293.9	274.4	254.9	274.4	293.9	298.8	398.2	530.7	596.9	721.5	970.7
120°	308.6	290.2	271.8	290.2	308.6	313.2	404.0	525.3	585.8	699.7	927.3
122.5°	325.6	307.1	288.5	307.1	325.6	330.2	412.6	522.4	577.3	679.8	884.8
125°	347.7	330.9	314.0	330.9	347.7	352.0	424.0	520.0	568.1	655.2	829.3
127.5°	368.8	351.6	334.6	351.6	368.8	373.0	435.5	518.7	560.3	635.1	784.6
130°	382.5	364.1	345.7	364.1	382.5	387.1	443.8	519.6	557.4	624.0	757.1
132.5°	393.9	375.5	357.2	375.5	393.9	398.5	450.6	520.0	554.7	614.3	733.5
135°	407.7	390.9	374.2	390.9	407.7	411.9	458.0	519.6	550.4	600.3	700.0
137.5°	424.6	408.1	391.5	408.1	424.6	428.8	469.0	522.8	549.6	591.8	676.1
140°	436.5	421.2	405.9	421.2	436.5	440.3	475.9	523.3	547.0	583.4	656.3
142.5°	445.2	431.1	417.0	431.1	445.2	448.8	481.6	525.2	547.0	579.0	643.0
145°	458.6	446.3	434.0	446.3	458.6	461.7	488.9	525.3	543.4	569.6	621.9
147.5°	474.9	463.0	451.0	463.0	474.9	477.9	499.8	528.8	543.4	564.0	605.2
150°	483.7	472.9	462.0	472.9	483.7	486.4	505.4	530.8	543.4	560.8	595.5
152.5°	489.9	481.7	473.5	481.7	489.9	492.0	509.1	531.9	543.4	558.2	587.9
155°	502.7	496.6	490.5	496.6	502.7	504.2	517.3	534.7	543.4	555.2	578.8
157.5°	514.9	509.0	503.1	509.0	514.9	516.4	525.3	537.3	543.4	552.5	570.9
160°	520.7	516.2	511.6	516.2	520.7	521.9	529.1	538.6	543.4	551.3	567.0
162.5°	526.9	523.5	520.0	523.5	526.9	527.8	533.0	539.9	543.4	550.0	563.3
165°	535.5	532.4	529.2	532.4	535.5	536.3	538.7	541.8	543.4	548.2	557.7
167.5°	540.8	539.3	537.8	539.3	540.8	541.1	543.1	545.7	547.0	550.1	556.3
170°	546.3	544.8	543.4	544.8	546.3	546.7	546.7	546.9	547.0	550.1	556.3
172.5°	546.9	546.7	546.3	546.7	546.9	547.0	547.0	547.0	547.0	549.5	554.4
175°	550.4	550.4	550.4	550.4	550.4	550.4	549.2	547.7	547.0	548.6	551.7
177.5°	550.4	550.4	550.4	550.4	550.4	550.4	549.5	548.3	547.7	549.0	551.4
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935374  
 CATALOG NUMBER: SQ4-FA-100U-125D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1532.9	1528.3	1534.4	1517.8	1534.4	1528.3	1532.9	1543.3	1534.4	1540.3	1546.4
5°	1345.0	1337.5	1313.4	1293.9	1313.4	1337.5	1345.0	1376.6	1391.6	1418.7	1454.7
7.5°	1202.3	1196.2	1190.2	1178.2	1190.2	1196.2	1202.3	1211.2	1226.2	1250.3	1277.4
10°	1170.7	1172.2	1181.2	1179.7	1181.2	1172.2	1170.7	1167.6	1163.2	1167.6	1184.1
12.5°	1251.8	1265.3	1315.0	1311.9	1315.0	1265.3	1251.8	1191.7	1151.1	1143.7	1146.6
15°	1345.0	1349.5	1360.1	1361.5	1360.1	1349.5	1345.0	1321.0	1199.2	1146.6	1130.1
17.5°	1354.0	1355.5	1363.0	1363.0	1363.0	1355.5	1354.0	1343.5	1302.9	1232.3	1139.1
20°	1346.5	1349.5	1364.5	1367.5	1364.5	1349.5	1346.5	1333.0	1310.4	1284.8	1214.3
22.5°	1343.5	1349.5	1361.5	1360.1	1361.5	1349.5	1343.5	1322.4	1302.9	1284.8	1256.3
25°	1328.4	1328.4	1330.0	1331.5	1330.0	1328.4	1328.4	1311.9	1272.9	1268.3	1251.8
27.5°	1296.9	1299.9	1308.9	1307.4	1308.9	1299.9	1296.9	1290.9	1248.8	1244.3	1232.3
30°	1268.3	1265.3	1257.9	1251.8	1257.9	1265.3	1268.3	1259.4	1217.3	1205.2	1208.2
32.5°	1220.3	1212.7	1205.2	1200.8	1205.2	1212.7	1220.3	1217.3	1185.7	1169.1	1172.2
35°	1163.2	1164.6	1163.2	1158.7	1163.2	1164.6	1163.2	1166.1	1146.6	1131.6	1130.1
37.5°	1122.6	1125.5	1124.1	1118.1	1124.1	1125.5	1122.6	1119.6	1092.5	1088.0	1091.0
40°	1080.5	1082.0	1080.5	1076.0	1080.5	1082.0	1080.5	1074.5	1036.9	1038.4	1048.9
42.5°	1039.9	1038.4	1033.9	1030.9	1033.9	1038.4	1039.9	1030.9	982.8	978.3	997.8
45°	993.3	994.8	985.9	981.3	985.9	994.8	993.3	987.4	937.7	925.7	939.2
47.5°	946.8	946.8	939.2	934.7	939.2	946.8	946.8	939.2	886.7	874.6	882.1
50°	897.1	895.6	885.2	883.6	885.2	895.6	897.1	892.6	837.0	826.6	826.6
52.5°	840.0	840.0	841.6	844.6	841.6	840.0	840.0	841.6	792.0	781.4	778.4
55°	790.5	792.0	802.5	805.5	802.5	792.0	790.5	790.5	745.4	734.8	728.9
57.5°	739.3	739.3	746.9	746.9	746.9	739.3	739.3	736.3	692.8	683.8	680.7
60°	680.7	683.8	689.8	688.3	689.8	683.8	680.7	677.7	640.2	634.2	623.6
62.5°	619.1	622.1	623.6	620.6	623.6	622.1	619.1	610.1	587.6	583.1	569.6
65°	554.6	557.6	559.0	556.1	559.0	557.6	554.6	550.0	533.5	526.0	514.0
67.5°	488.4	486.9	485.4	491.4	485.4	486.9	488.4	482.4	471.9	465.8	449.3
70°	420.7	420.7	419.3	422.2	419.3	420.7	420.7	416.3	410.3	405.7	390.7
72.5°	348.6	347.1	353.2	348.6	353.2	347.1	348.6	347.1	344.1	339.7	324.6
75°	278.0	281.1	278.0	282.6	278.0	281.1	278.0	279.5	278.0	275.0	264.4
77.5°	211.9	214.9	211.9	211.9	211.9	214.9	211.9	213.4	213.4	213.4	204.4
80°	150.2	148.7	148.7	147.2	148.7	148.7	150.2	150.2	151.8	148.7	145.8
82.5°	96.2	94.7	94.7	97.7	94.7	94.7	96.2	97.7	94.7	94.7	94.7
85°	52.6	54.1	51.1	51.1	51.1	54.1	52.6	49.6	52.6	52.6	51.1
87.5°	19.5	18.0	18.0	18.0	18.0	18.0	19.5	21.0	21.0	21.0	22.6
90°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	18.7	25.0	28.1	24.2
92.5°	70.2	67.4	56.2	45.0	56.2	67.4	70.2	99.5	138.5	158.1	138.8
95°	238.3	229.8	196.0	162.1	196.0	229.8	238.3	312.8	412.3	462.0	390.2
97.5°	549.9	533.9	469.5	405.2	469.5	533.9	549.9	597.1	660.0	691.4	571.7
100°	772.3	753.1	676.5	599.8	676.5	753.1	772.3	768.8	764.3	762.0	629.1
102.5°	962.1	945.7	880.1	814.5	880.1	945.7	962.1	902.1	822.0	782.0	647.2
105°	1183.8	1175.0	1139.7	1104.4	1139.7	1175.0	1183.8	1049.1	869.5	779.8	649.2
107.5°	1299.1	1301.2	1309.7	1318.2	1309.7	1301.2	1299.1	1111.2	860.6	735.4	620.3
110°	1328.5	1337.8	1374.5	1411.3	1374.5	1337.8	1328.5	1118.5	838.4	698.4	594.7



TEST NUMBER: P935374

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1309.7	1323.8	1380.3	1436.8	1380.3	1323.8	1309.7	1094.7	808.2	664.8	572.3
115°	1245.9	1265.4	1343.7	1422.0	1343.7	1265.4	1245.9	1038.8	762.7	624.6	546.7
117.5°	1157.6	1179.3	1266.1	1353.0	1266.1	1179.3	1157.6	970.7	721.5	596.9	530.7
120°	1098.1	1119.2	1203.6	1288.0	1203.6	1119.2	1098.1	927.3	699.7	585.8	525.3
122.5°	1038.6	1059.4	1142.7	1225.9	1142.7	1059.4	1038.6	884.8	679.8	577.3	522.4
125°	959.9	979.1	1055.7	1132.5	1055.7	979.1	959.9	829.3	655.2	568.1	520.0
127.5°	896.8	913.0	977.7	1042.3	977.7	913.0	896.8	784.6	635.1	560.3	518.7
130°	856.9	871.8	931.6	991.4	931.6	871.8	856.9	757.1	624.0	557.4	519.6
132.5°	822.9	836.3	889.8	943.3	889.8	836.3	822.9	733.5	614.3	554.7	520.0
135°	774.9	786.4	832.5	878.7	832.5	786.4	774.9	700.0	600.3	550.4	519.6
137.5°	739.4	748.9	786.7	824.4	786.7	748.9	739.4	676.1	591.8	549.6	522.8
140°	711.0	719.8	755.2	790.4	755.2	719.8	711.0	656.3	583.4	547.0	523.3
142.5°	691.0	698.7	729.0	759.4	729.0	698.7	691.0	643.0	579.0	547.0	525.2
145°	661.1	666.9	689.9	712.9	689.9	666.9	661.1	621.9	569.6	543.4	525.3
147.5°	636.1	640.9	659.9	678.9	659.9	640.9	636.1	605.2	564.0	543.4	528.8
150°	621.6	625.4	640.9	656.3	640.9	625.4	621.6	595.5	560.8	543.4	530.8
152.5°	610.1	613.1	624.7	636.4	624.7	613.1	610.1	587.9	558.2	543.4	531.9
155°	596.5	598.4	606.1	613.9	606.1	598.4	596.5	578.8	555.2	543.4	534.7
157.5°	584.7	586.0	591.5	596.9	591.5	586.0	584.7	570.9	552.5	543.4	537.3
160°	578.8	579.6	582.7	585.8	582.7	579.6	578.8	567.0	551.3	543.4	538.6
162.5°	573.2	573.9	576.9	579.9	576.9	573.9	573.2	563.3	550.0	543.4	539.9
165°	564.8	565.6	568.7	571.8	568.7	565.6	564.8	557.7	548.2	543.4	541.8
167.5°	561.0	561.4	562.6	564.0	562.6	561.4	561.0	556.3	550.1	547.0	545.7
170°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	556.3	550.1	547.0	546.9
172.5°	558.1	557.8	556.7	555.5	556.7	557.8	558.1	554.4	549.5	547.0	547.0
175°	554.0	554.0	554.0	554.0	554.0	554.0	554.0	551.7	548.6	547.0	547.7
177.5°	553.3	553.0	551.7	550.4	551.7	553.0	553.3	551.4	549.0	547.7	548.3
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935374

CATALOG NUMBER: SQ4-FA-100U-125D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1568.9	1576.4	1580.9	1586.9	1602.0
5°	1508.8	1537.3	1546.4	1568.9	1595.9
7.5°	1376.6	1463.7	1487.8	1541.8	1583.9
10°	1248.8	1336.0	1378.1	1505.8	1568.9
12.5°	1184.1	1235.3	1263.8	1442.6	1547.9
15°	1143.7	1179.7	1200.8	1358.6	1523.8
17.5°	1112.0	1137.6	1152.6	1275.9	1490.8
20°	1092.5	1104.6	1118.1	1215.8	1453.2
22.5°	1079.0	1071.5	1082.0	1173.7	1402.1
25°	1070.0	1041.4	1053.4	1140.6	1341.9
27.5°	1077.5	1014.4	1018.9	1110.5	1278.9
30°	1079.0	981.3	982.8	1079.0	1208.2
32.5°	1068.4	946.8	948.3	1039.9	1128.6
35°	1043.0	906.2	904.7	994.8	1020.4
37.5°	1008.3	862.6	862.6	945.3	901.7
40°	966.3	819.0	823.5	880.6	796.4
42.5°	915.2	772.5	778.4	794.9	718.3
45°	859.6	727.4	731.9	671.8	658.2
47.5°	798.0	680.7	682.3	557.6	638.6
50°	724.3	632.7	626.7	477.9	637.1
52.5°	659.7	580.0	562.0	432.8	578.5
55°	596.6	524.5	485.4	398.3	536.5
57.5°	541.0	452.3	414.8	357.7	527.5
60°	489.9	381.7	353.2	314.1	483.9
62.5°	447.8	329.1	323.1	284.0	438.8
65°	402.7	293.0	291.5	258.5	372.7
67.5°	359.2	269.0	267.5	234.4	284.0
70°	312.6	243.5	240.5	208.9	210.4
72.5°	264.4	214.9	211.9	187.8	174.3
75°	216.4	181.9	180.4	163.8	141.3
77.5°	169.8	144.3	147.2	132.2	103.7
80°	121.7	105.2	108.2	94.7	78.1
82.5°	81.2	69.1	72.1	60.1	52.6
85°	45.1	39.1	40.6	31.5	24.1
87.5°	21.0	18.0	18.0	12.0	7.5
90°	16.3	10.3	9.6	6.7	3.7
92.5°	100.3	71.3	65.0	39.9	14.7
95°	246.6	138.9	127.4	81.4	35.4
97.5°	332.2	152.6	142.4	101.9	61.3
100°	363.4	164.0	154.8	118.0	81.3
102.5°	377.7	175.5	166.9	132.6	98.2
105°	388.2	192.4	185.1	156.1	127.1
107.5°	390.2	217.6	210.8	183.7	156.6
110°	387.2	231.6	225.5	201.0	176.5



TEST NUMBER: P935374

CATALOG NUMBER: SQ4-FA-100U-125D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	387.3	248.6	242.7	219.4	196.2
115°	390.9	274.0	268.6	247.1	225.6
117.5°	398.2	298.8	293.9	274.4	254.9
120°	404.0	313.2	308.6	290.2	271.8
122.5°	412.6	330.2	325.6	307.1	288.5
125°	424.0	352.0	347.7	330.9	314.0
127.5°	435.5	373.0	368.8	351.6	334.6
130°	443.8	387.1	382.5	364.1	345.7
132.5°	450.6	398.5	393.9	375.5	357.2
135°	458.0	411.9	407.7	390.9	374.2
137.5°	469.0	428.8	424.6	408.1	391.5
140°	475.9	440.3	436.5	421.2	405.9
142.5°	481.6	448.8	445.2	431.1	417.0
145°	488.9	461.7	458.6	446.3	434.0
147.5°	499.8	477.9	474.9	463.0	451.0
150°	505.4	486.4	483.7	472.9	462.0
152.5°	509.1	492.0	489.9	481.7	473.5
155°	517.3	504.2	502.7	496.6	490.5
157.5°	525.3	516.4	514.9	509.0	503.1
160°	529.1	521.9	520.7	516.2	511.6
162.5°	533.0	527.8	526.9	523.5	520.0
165°	538.7	536.3	535.5	532.4	529.2
167.5°	543.1	541.1	540.8	539.3	537.8
170°	546.7	546.7	546.3	544.8	543.4
172.5°	547.0	547.0	546.9	546.7	546.3
175°	549.2	550.4	550.4	550.4	550.4
177.5°	549.5	550.4	550.4	550.4	550.4
180°	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935374  
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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	14.47	15.36	15.39	16.31	17.53	17.26	18.16	18.19	19.10	20.32
	3H	14.95	15.75	15.89	16.70	17.95	18.60	19.41	19.54	20.36	21.60
	4H	15.14	15.90	16.09	16.86	18.11	19.04	19.80	19.99	20.76	22.01
	6H	15.26	15.96	16.22	16.92	18.19	19.32	20.02	20.29	20.98	22.25
	8H	15.26	15.93	16.23	16.91	18.17	19.39	20.06	20.36	21.04	22.30
	12H	15.24	15.87	16.21	16.84	18.13	19.43	20.06	20.40	21.04	22.32
4H	2H	15.50	16.26	16.45	17.21	18.46	17.68	18.44	18.64	19.40	20.65
	3H	16.53	17.16	17.49	18.15	19.41	19.18	19.81	20.15	20.80	22.06
	4H	16.80	17.38	17.78	18.36	19.65	19.70	20.28	20.68	21.26	22.55
	6H	16.93	17.43	17.92	18.43	19.72	20.06	20.56	21.05	21.56	22.85
	8H	16.94	17.40	17.93	18.40	19.70	20.16	20.63	21.16	21.63	22.93
	12H	16.91	17.33	17.92	18.34	19.65	20.22	20.64	21.23	21.65	22.96
8H	4H	17.26	17.72	18.25	18.72	20.02	19.83	20.29	20.82	21.29	22.60
	6H	17.52	17.90	18.53	18.94	20.24	20.26	20.64	21.28	21.68	22.99
	8H	17.56	17.90	18.59	18.93	20.25	20.41	20.75	21.43	21.77	23.09
	12H	17.55	17.85	18.58	18.87	20.23	20.50	20.80	21.53	21.82	23.19
12H	4H	17.26	17.68	18.27	18.70	20.00	19.80	20.22	20.81	21.23	22.54
	6H	17.58	17.92	18.60	18.94	20.26	20.26	20.60	21.28	21.62	22.94
	8H	17.65	17.94	18.67	18.97	20.33	20.42	20.71	21.44	21.73	23.10