

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: P934159

Luminaire Tested: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

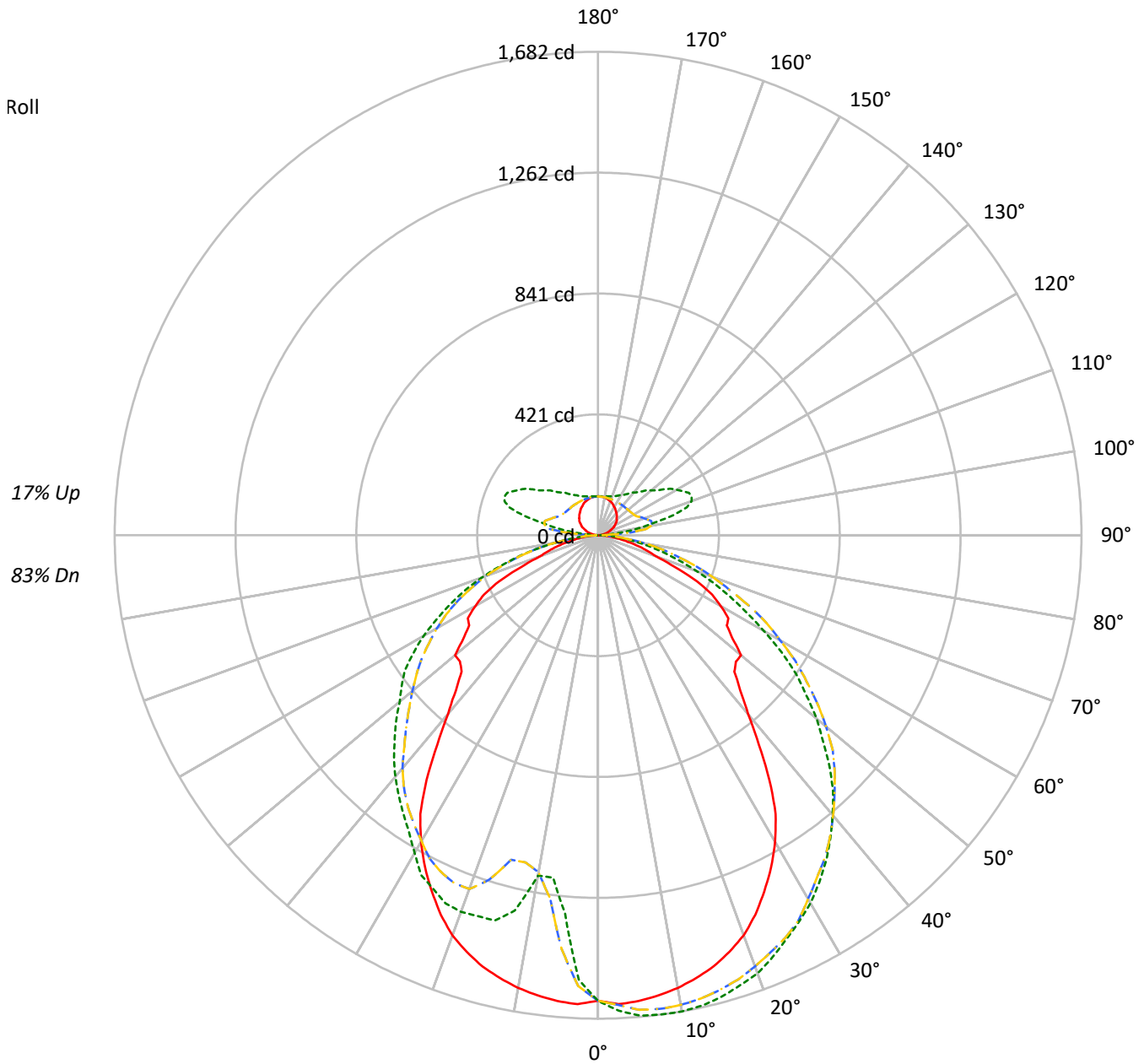
Test Method: LM-79-2019  
Report Number: P934159  
REPORT IS A COMBINATION OF REPORTS P933686 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5074.3 lumens  
Efficiency: N/A  
Efficacy: 102.3 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): 49.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	73	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	62	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	52	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	45	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	39	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	35	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	31	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	28	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	23	23	21

**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	2.9
10°-20°	415.0	8.2
20°-30°	641.5	12.6
30°-40°	765.8	15.1
40°-50°	770.3	15.2
50°-60°	670.2	13.2
60°-70°	475.2	9.4
70°-80°	251.4	5.0
80°-90°	63.1	1.2
90°-100°	65.8	1.3
100°-110°	173.1	3.4
110°-120°	179.5	3.5
120°-130°	144.0	2.8
130°-140°	113.0	2.2
140°-150°	86.7	1.7
150°-160°	62.4	1.2
160°-170°	38.2	0.8
170°-180°	12.9	0.3
0°-30°	1202.6	23.7
0°-40°	1968.4	38.8
0°-60°	3408.9	67.2
0°-90°	4198.7	82.7
90°-120°	418.5	8.2
90°-150°	762.1	15.0
90°-180°	876.0	17.3
0°-180°	5074.3	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°	1	3	1	3	1	2
95°	9	40	9	40	9	10
105°	31	271	31	271	31	33
115°	55	349	55	349	55	55
125°	77	278	77	278	77	68
135°	92	216	92	216	92	71
145°	106	175	106	175	106	67
155°	120	151	120	151	120	55
165°	130	140	130	140	130	37
175°	135	136	135	136	135	13
180°	135	135	135	135	135	



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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°	0.9	1.6	2.4	2.5	4.0	5.9	6.9	6.2	4.6	3.4	3.4
92.5°	3.6	9.8	15.9	17.5	24.6	34.1	38.8	34.0	24.4	17.2	16.5
95°	8.7	20.0	31.3	34.1	60.6	95.8	113.4	101.2	76.8	58.5	56.4
97.5°	15.0	25.0	34.9	37.5	81.6	140.3	169.7	162.0	146.5	135.0	131.0
100°	19.9	29.0	38.0	40.3	89.2	154.4	187.0	187.5	188.7	189.5	184.8
102.5°	24.1	32.5	41.0	43.1	92.7	158.9	191.9	201.8	221.4	236.2	232.1
105°	31.2	38.4	45.4	47.2	95.3	159.3	191.4	213.4	257.5	290.6	288.4
107.5°	38.5	45.1	51.8	53.4	95.8	152.2	180.5	211.3	272.7	318.9	319.4
110°	43.4	49.3	55.3	56.8	95.0	146.0	171.4	205.8	274.5	326.1	328.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	48.2	53.9	59.6	61.0	95.0	140.5	163.2	198.4	268.7	321.5	325.0
115°	55.4	60.6	65.9	67.3	95.9	134.2	153.3	187.2	255.0	305.8	310.6
117.5°	62.5	67.3	72.1	73.3	97.8	130.3	146.5	177.1	238.2	284.1	289.5
120°	66.7	71.2	75.8	76.8	99.1	128.9	143.7	171.7	227.6	269.6	274.7
122.5°	70.8	75.3	79.8	81.0	101.2	128.2	141.7	166.8	217.1	254.9	260.0
125°	77.0	81.2	85.4	86.4	104.1	127.6	139.4	160.8	203.6	235.6	240.3
127.5°	82.1	86.4	90.5	91.6	106.9	127.3	137.5	155.9	192.6	220.1	224.1
130°	84.8	89.3	93.9	95.0	109.0	127.5	136.8	153.2	185.8	210.4	214.0
132.5°	87.7	92.2	96.8	97.8	110.6	127.6	136.1	150.8	180.0	202.0	205.3
135°	91.9	95.9	100.1	101.1	112.4	127.5	135.1	147.3	171.8	190.2	193.0
137.5°	96.1	100.2	104.3	105.3	115.1	128.3	134.9	145.2	165.9	181.5	183.8
140°	99.7	103.4	107.2	108.1	116.8	128.4	134.2	143.2	161.1	174.5	176.7
142.5°	102.4	105.8	109.3	110.2	118.2	128.9	134.2	142.1	157.9	169.6	171.5
145°	106.5	109.5	112.6	113.3	120.0	128.9	133.3	139.8	152.6	162.3	163.7
147.5°	110.7	113.6	116.6	117.3	122.6	129.8	133.3	138.4	148.5	156.1	157.3
150°	113.4	116.0	118.8	119.4	124.0	130.3	133.3	137.6	146.2	152.6	153.5
152.5°	116.2	118.2	120.2	120.7	124.9	130.5	133.3	137.0	144.3	149.8	150.5
155°	120.4	121.8	123.4	123.7	126.9	131.2	133.3	136.2	142.1	146.5	146.9
157.5°	123.5	124.9	126.4	126.7	128.9	131.9	133.3	135.6	140.1	143.5	143.8
160°	125.5	126.6	127.8	128.1	129.8	132.2	133.3	135.2	139.1	142.0	142.2
162.5°	127.6	128.4	129.3	129.5	130.8	132.5	133.3	135.0	138.2	140.7	140.8
165°	129.9	130.6	131.4	131.6	132.2	133.0	133.3	134.5	136.9	138.6	138.8
167.5°	132.0	132.3	132.7	132.8	133.2	133.9	134.2	135.0	136.5	137.7	137.8
170°	133.3	133.7	134.1	134.1	134.1	134.2	134.2	135.0	136.5	137.7	137.7
172.5°	134.1	134.1	134.2	134.2	134.2	134.2	134.2	134.9	136.0	137.0	136.9
175°	135.1	135.1	135.1	135.1	134.8	134.4	134.2	134.6	135.4	136.0	136.0
177.5°	135.1	135.1	135.1	135.1	134.9	134.6	134.4	134.7	135.3	135.8	135.7
180°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1



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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°	3.4	3.4	3.4	3.4	3.4	4.6	6.2	6.9	5.9	4.0	2.5
92.5°	13.8	11.0	13.8	16.5	17.2	24.4	34.0	38.8	34.1	24.6	17.5
95°	48.2	39.8	48.2	56.4	58.5	76.8	101.2	113.4	95.8	60.6	34.1
97.5°	115.2	99.5	115.2	131.0	135.0	146.5	162.0	169.7	140.3	81.6	37.5
100°	166.1	147.3	166.1	184.8	189.5	188.7	187.5	187.0	154.4	89.2	40.3
102.5°	216.0	199.9	216.0	232.1	236.2	221.4	201.8	191.9	158.9	92.7	43.1
105°	279.8	271.1	279.8	288.4	290.6	257.5	213.4	191.4	159.3	95.3	47.2
107.5°	321.5	323.6	321.5	319.4	318.9	272.7	211.3	180.5	152.2	95.8	53.4
110°	337.4	346.4	337.4	328.4	326.1	274.5	205.8	171.4	146.0	95.0	56.8





TEST NUMBER: P934159

CATALOG NUMBER: SQ4-FA-025U-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°	338.8	352.7	338.8	325.0	321.5	268.7	198.4	163.2	140.5	95.0	61.0
115°	329.8	349.0	329.8	310.6	305.8	255.0	187.2	153.3	134.2	95.9	67.3
117.5°	310.7	332.1	310.7	289.5	284.1	238.2	177.1	146.5	130.3	97.8	73.3
120°	295.4	316.1	295.4	274.7	269.6	227.6	171.7	143.7	128.9	99.1	76.8
122.5°	280.4	300.9	280.4	260.0	254.9	217.1	166.8	141.7	128.2	101.2	81.0
125°	259.1	278.0	259.1	240.3	235.6	203.6	160.8	139.4	127.6	104.1	86.4
127.5°	240.0	255.8	240.0	224.1	220.1	192.6	155.9	137.5	127.3	106.9	91.6
130°	228.6	243.3	228.6	214.0	210.4	185.8	153.2	136.8	127.5	109.0	95.0
132.5°	218.4	231.5	218.4	205.3	202.0	180.0	150.8	136.1	127.6	110.6	97.8
135°	204.4	215.7	204.4	193.0	190.2	171.8	147.3	135.1	127.5	112.4	101.1
137.5°	193.1	202.4	193.1	183.8	181.5	165.9	145.2	134.9	128.3	115.1	105.3
140°	185.3	194.0	185.3	176.7	174.5	161.1	143.2	134.2	128.4	116.8	108.1
142.5°	179.0	186.4	179.0	171.5	169.6	157.9	142.1	134.2	128.9	118.2	110.2
145°	169.4	175.0	169.4	163.7	162.3	152.6	139.8	133.3	128.9	120.0	113.3
147.5°	161.9	166.6	161.9	157.3	156.1	148.5	138.4	133.3	129.8	122.6	117.3
150°	157.3	161.1	157.3	153.5	152.6	146.2	137.6	133.3	130.3	124.0	119.4
152.5°	153.3	156.2	153.3	150.5	149.8	144.3	137.0	133.3	130.5	124.9	120.7
155°	148.8	150.7	148.8	146.9	146.5	142.1	136.2	133.3	131.2	126.9	123.7
157.5°	145.2	146.5	145.2	143.8	143.5	140.1	135.6	133.3	131.9	128.9	126.7
160°	143.0	143.7	143.0	142.2	142.0	139.1	135.2	133.3	132.2	129.8	128.1
162.5°	141.6	142.3	141.6	140.8	140.7	138.2	135.0	133.3	132.5	130.8	129.5
165°	139.6	140.3	139.6	138.8	138.6	136.9	134.5	133.3	133.0	132.2	131.6
167.5°	138.0	138.4	138.0	137.8	137.7	136.5	135.0	134.2	133.9	133.2	132.8
170°	137.7	137.7	137.7	137.7	137.7	136.5	135.0	134.2	134.2	134.1	134.1
172.5°	136.6	136.3	136.6	136.9	137.0	136.0	134.9	134.2	134.2	134.2	134.2
175°	136.0	136.0	136.0	136.0	136.0	135.4	134.6	134.2	134.4	134.8	135.1
177.5°	135.4	135.1	135.4	135.7	135.8	135.3	134.7	134.4	134.6	134.9	135.1
180°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1



TEST NUMBER: P934159

CATALOG NUMBER: SQ4-FA-025U-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°	2.4	1.6	0.9	1.6	2.4	2.5	4.0	5.9	6.9	6.2	4.6
92.5°	15.9	9.8	3.6	9.8	15.9	17.5	24.6	34.1	38.8	34.0	24.4
95°	31.3	20.0	8.7	20.0	31.3	34.1	60.6	95.8	113.4	101.2	76.8
97.5°	34.9	25.0	15.0	25.0	34.9	37.5	81.6	140.3	169.7	162.0	146.5
100°	38.0	29.0	19.9	29.0	38.0	40.3	89.2	154.4	187.0	187.5	188.7
102.5°	41.0	32.5	24.1	32.5	41.0	43.1	92.7	158.9	191.9	201.8	221.4
105°	45.4	38.4	31.2	38.4	45.4	47.2	95.3	159.3	191.4	213.4	257.5
107.5°	51.8	45.1	38.5	45.1	51.8	53.4	95.8	152.2	180.5	211.3	272.7
110°	55.3	49.3	43.4	49.3	55.3	56.8	95.0	146.0	171.4	205.8	274.5



TEST NUMBER: P934159

CATALOG NUMBER: SQ4-FA-025U-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°	59.6	53.9	48.2	53.9	59.6	61.0	95.0	140.5	163.2	198.4	268.7
115°	65.9	60.6	55.4	60.6	65.9	67.3	95.9	134.2	153.3	187.2	255.0
117.5°	72.1	67.3	62.5	67.3	72.1	73.3	97.8	130.3	146.5	177.1	238.2
120°	75.8	71.2	66.7	71.2	75.8	76.8	99.1	128.9	143.7	171.7	227.6
122.5°	79.8	75.3	70.8	75.3	79.8	81.0	101.2	128.2	141.7	166.8	217.1
125°	85.4	81.2	77.0	81.2	85.4	86.4	104.1	127.6	139.4	160.8	203.6
127.5°	90.5	86.4	82.1	86.4	90.5	91.6	106.9	127.3	137.5	155.9	192.6
130°	93.9	89.3	84.8	89.3	93.9	95.0	109.0	127.5	136.8	153.2	185.8
132.5°	96.8	92.2	87.7	92.2	96.8	97.8	110.6	127.6	136.1	150.8	180.0
135°	100.1	95.9	91.9	95.9	100.1	101.1	112.4	127.5	135.1	147.3	171.8
137.5°	104.3	100.2	96.1	100.2	104.3	105.3	115.1	128.3	134.9	145.2	165.9
140°	107.2	103.4	99.7	103.4	107.2	108.1	116.8	128.4	134.2	143.2	161.1
142.5°	109.3	105.8	102.4	105.8	109.3	110.2	118.2	128.9	134.2	142.1	157.9
145°	112.6	109.5	106.5	109.5	112.6	113.3	120.0	128.9	133.3	139.8	152.6
147.5°	116.6	113.6	110.7	113.6	116.6	117.3	122.6	129.8	133.3	138.4	148.5
150°	118.8	116.0	113.4	116.0	118.8	119.4	124.0	130.3	133.3	137.6	146.2
152.5°	120.2	118.2	116.2	118.2	120.2	120.7	124.9	130.5	133.3	137.0	144.3
155°	123.4	121.8	120.4	121.8	123.4	123.7	126.9	131.2	133.3	136.2	142.1
157.5°	126.4	124.9	123.5	124.9	126.4	126.7	128.9	131.9	133.3	135.6	140.1
160°	127.8	126.6	125.5	126.6	127.8	128.1	129.8	132.2	133.3	135.2	139.1
162.5°	129.3	128.4	127.6	128.4	129.3	129.5	130.8	132.5	133.3	135.0	138.2
165°	131.4	130.6	129.9	130.6	131.4	131.6	132.2	133.0	133.3	134.5	136.9
167.5°	132.7	132.3	132.0	132.3	132.7	132.8	133.2	133.9	134.2	135.0	136.5
170°	134.1	133.7	133.3	133.7	134.1	134.1	134.1	134.2	134.2	135.0	136.5
172.5°	134.2	134.1	134.1	134.1	134.2	134.2	134.2	134.2	134.2	134.9	136.0
175°	135.1	135.1	135.1	135.1	135.1	135.1	134.8	134.4	134.2	134.6	135.4
177.5°	135.1	135.1	135.1	135.1	135.1	135.1	134.9	134.6	134.4	134.7	135.3
180°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1



TEST NUMBER: P934159

CATALOG NUMBER: SQ4-FA-025U-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°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	6.2	6.9	5.9
92.5°	17.2	16.5	13.8	11.0	13.8	16.5	17.2	24.4	34.0	38.8	34.1
95°	58.5	56.4	48.2	39.8	48.2	56.4	58.5	76.8	101.2	113.4	95.8
97.5°	135.0	131.0	115.2	99.5	115.2	131.0	135.0	146.5	162.0	169.7	140.3
100°	189.5	184.8	166.1	147.3	166.1	184.8	189.5	188.7	187.5	187.0	154.4
102.5°	236.2	232.1	216.0	199.9	216.0	232.1	236.2	221.4	201.8	191.9	158.9
105°	290.6	288.4	279.8	271.1	279.8	288.4	290.6	257.5	213.4	191.4	159.3
107.5°	318.9	319.4	321.5	323.6	321.5	319.4	318.9	272.7	211.3	180.5	152.2
110°	326.1	328.4	337.4	346.4	337.4	328.4	326.1	274.5	205.8	171.4	146.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	321.5	325.0	338.8	352.7	338.8	325.0	321.5	268.7	198.4	163.2	140.5
115°	305.8	310.6	329.8	349.0	329.8	310.6	305.8	255.0	187.2	153.3	134.2
117.5°	284.1	289.5	310.7	332.1	310.7	289.5	284.1	238.2	177.1	146.5	130.3
120°	269.6	274.7	295.4	316.1	295.4	274.7	269.6	227.6	171.7	143.7	128.9
122.5°	254.9	260.0	280.4	300.9	280.4	260.0	254.9	217.1	166.8	141.7	128.2
125°	235.6	240.3	259.1	278.0	259.1	240.3	235.6	203.6	160.8	139.4	127.6
127.5°	220.1	224.1	240.0	255.8	240.0	224.1	220.1	192.6	155.9	137.5	127.3
130°	210.4	214.0	228.6	243.3	228.6	214.0	210.4	185.8	153.2	136.8	127.5
132.5°	202.0	205.3	218.4	231.5	218.4	205.3	202.0	180.0	150.8	136.1	127.6
135°	190.2	193.0	204.4	215.7	204.4	193.0	190.2	171.8	147.3	135.1	127.5
137.5°	181.5	183.8	193.1	202.4	193.1	183.8	181.5	165.9	145.2	134.9	128.3
140°	174.5	176.7	185.3	194.0	185.3	176.7	174.5	161.1	143.2	134.2	128.4
142.5°	169.6	171.5	179.0	186.4	179.0	171.5	169.6	157.9	142.1	134.2	128.9
145°	162.3	163.7	169.4	175.0	169.4	163.7	162.3	152.6	139.8	133.3	128.9
147.5°	156.1	157.3	161.9	166.6	161.9	157.3	156.1	148.5	138.4	133.3	129.8
150°	152.6	153.5	157.3	161.1	157.3	153.5	152.6	146.2	137.6	133.3	130.3
152.5°	149.8	150.5	153.3	156.2	153.3	150.5	149.8	144.3	137.0	133.3	130.5
155°	146.5	146.9	148.8	150.7	148.8	146.9	146.5	142.1	136.2	133.3	131.2
157.5°	143.5	143.8	145.2	146.5	145.2	143.8	143.5	140.1	135.6	133.3	131.9
160°	142.0	142.2	143.0	143.7	143.0	142.2	142.0	139.1	135.2	133.3	132.2
162.5°	140.7	140.8	141.6	142.3	141.6	140.8	140.7	138.2	135.0	133.3	132.5
165°	138.6	138.8	139.6	140.3	139.6	138.8	138.6	136.9	134.5	133.3	133.0
167.5°	137.7	137.8	138.0	138.4	138.0	137.8	137.7	136.5	135.0	134.2	133.9
170°	137.7	137.7	137.7	137.7	137.7	137.7	137.7	136.5	135.0	134.2	134.2
172.5°	137.0	136.9	136.6	136.3	136.6	136.9	137.0	136.0	134.9	134.2	134.2
175°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	135.4	134.6	134.2	134.4
177.5°	135.8	135.7	135.4	135.1	135.4	135.7	135.8	135.3	134.7	134.4	134.6
180°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1



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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°	4.0	2.5	2.4	1.6	0.9
92.5°	24.6	17.5	15.9	9.8	3.6
95°	60.6	34.1	31.3	20.0	8.7
97.5°	81.6	37.5	34.9	25.0	15.0
100°	89.2	40.3	38.0	29.0	19.9
102.5°	92.7	43.1	41.0	32.5	24.1
105°	95.3	47.2	45.4	38.4	31.2
107.5°	95.8	53.4	51.8	45.1	38.5
110°	95.0	56.8	55.3	49.3	43.4



TEST NUMBER: P934159

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	95.0	61.0	59.6	53.9	48.2
115°	95.9	67.3	65.9	60.6	55.4
117.5°	97.8	73.3	72.1	67.3	62.5
120°	99.1	76.8	75.8	71.2	66.7
122.5°	101.2	81.0	79.8	75.3	70.8
125°	104.1	86.4	85.4	81.2	77.0
127.5°	106.9	91.6	90.5	86.4	82.1
130°	109.0	95.0	93.9	89.3	84.8
132.5°	110.6	97.8	96.8	92.2	87.7
135°	112.4	101.1	100.1	95.9	91.9
137.5°	115.1	105.3	104.3	100.2	96.1
140°	116.8	108.1	107.2	103.4	99.7
142.5°	118.2	110.2	109.3	105.8	102.4
145°	120.0	113.3	112.6	109.5	106.5
147.5°	122.6	117.3	116.6	113.6	110.7
150°	124.0	119.4	118.8	116.0	113.4
152.5°	124.9	120.7	120.2	118.2	116.2
155°	126.9	123.7	123.4	121.8	120.4
157.5°	128.9	126.7	126.4	124.9	123.5
160°	129.8	128.1	127.8	126.6	125.5
162.5°	130.8	129.5	129.3	128.4	127.6
165°	132.2	131.6	131.4	130.6	129.9
167.5°	133.2	132.8	132.7	132.3	132.0
170°	134.1	134.1	134.1	133.7	133.3
172.5°	134.2	134.2	134.2	134.1	134.1
175°	134.8	135.1	135.1	135.1	135.1
177.5°	134.9	135.1	135.1	135.1	135.1
180°	135.1	135.1	135.1	135.1	135.1



TEST NUMBER: P934159  
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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	16.82	18.08	17.43	18.70	19.41	19.62	20.88	20.23	21.50	22.21
	3H	17.33	18.46	17.95	19.09	19.84	20.98	22.11	21.61	22.75	23.50
	4H	17.53	18.60	18.18	19.25	20.01	21.44	22.50	22.08	23.15	23.91
	6H	17.67	18.66	18.34	19.32	20.09	21.73	22.72	22.40	23.38	24.15
	8H	17.69	18.63	18.36	19.31	20.09	21.82	22.76	22.49	23.44	24.21
	12H	17.67	18.57	18.35	19.24	20.05	21.86	22.76	22.54	23.43	24.24
4H	2H	17.89	18.96	18.54	19.61	20.37	20.07	21.14	20.72	21.79	22.55
	3H	18.95	19.84	19.62	20.53	21.31	21.61	22.50	22.27	23.18	23.96
	4H	19.25	20.05	19.93	20.74	21.55	22.14	22.95	22.83	23.64	24.45
	6H	19.39	20.09	20.09	20.81	21.63	22.52	23.22	23.22	23.94	24.76
	8H	19.41	20.06	20.11	20.78	21.61	22.63	23.29	23.34	24.00	24.84
	12H	19.40	19.98	20.12	20.72	21.56	22.71	23.29	23.43	24.03	24.87
8H	4H	19.73	20.38	20.43	21.09	21.93	22.30	22.96	23.01	23.67	24.50
	6H	20.00	20.55	20.74	21.30	22.14	22.75	23.29	23.48	24.04	24.88
	8H	20.05	20.53	20.80	21.29	22.14	22.90	23.38	23.65	24.14	24.99
	12H	20.05	20.48	20.80	21.23	22.14	23.01	23.43	23.76	24.18	25.09
12H	4H	19.75	20.34	20.48	21.08	21.91	22.28	22.87	23.01	23.61	24.45
	6H	20.07	20.55	20.82	21.31	22.16	22.75	23.23	23.50	23.99	24.84
	8H	20.15	20.58	20.90	21.33	22.24	22.92	23.35	23.67	24.10	25.01