

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: P934510

Luminaire Tested: SQ4-FA-050U-125D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

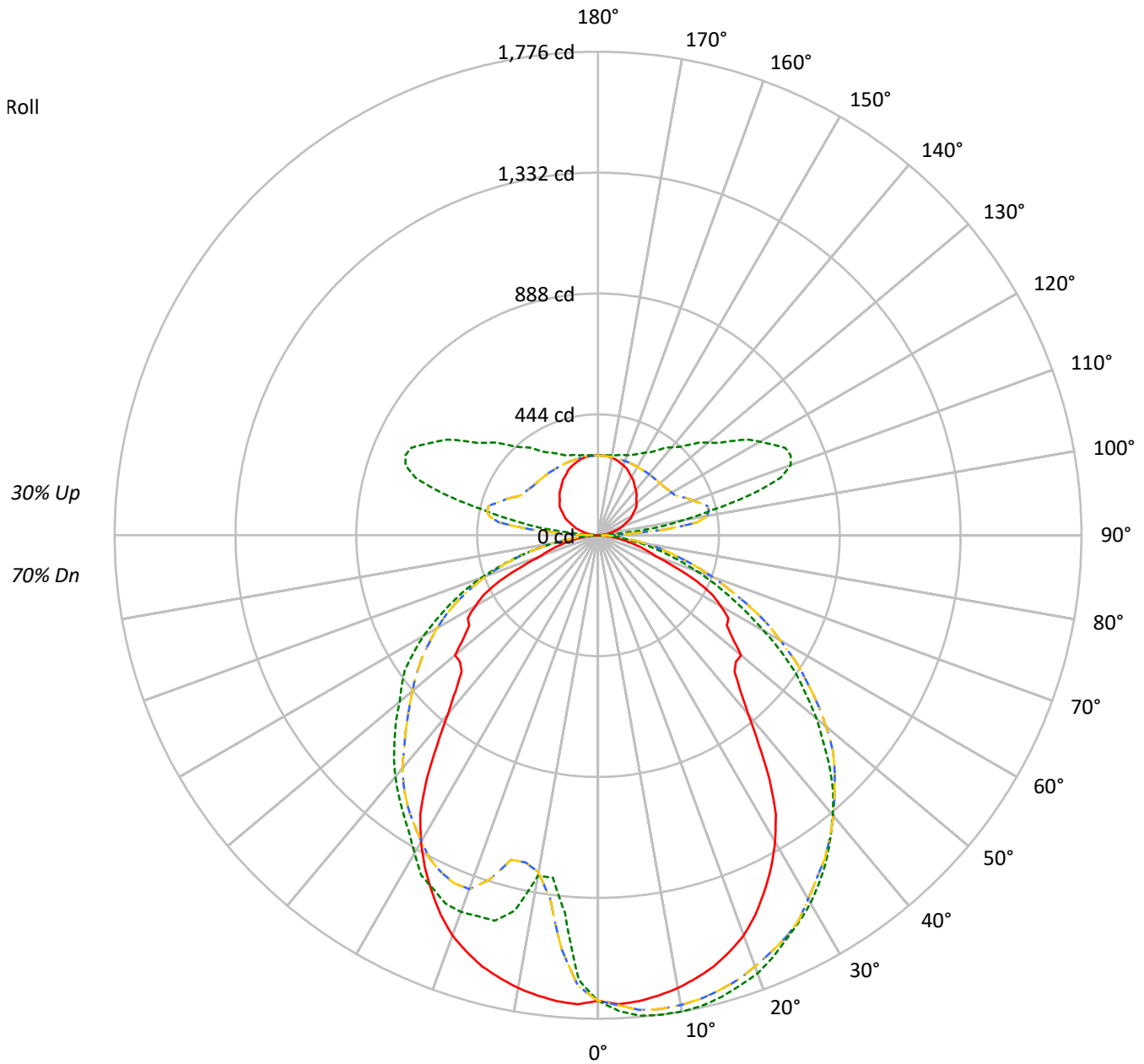
Test Method: LM-79-2019  
Report Number: P934510  
REPORT IS A COMBINATION OF REPORTS P933702 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-125D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6338.2 lumens  
Efficiency: N/A  
Efficacy: 113.2 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): 56  
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

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

	0°	90°	180°	270°
0°	15868	15868	15868	15868
5°	15969	16019	15969	12595
10°	15845	15779	15845	11281
15°	15655	15437	15655	12889
20°	15310	15032	15310	12917
25°	14621	14441	14621	12643
30°	13738	13950	13738	12043
35°	12230	13331	12230	11382
40°	10172	12600	10172	10883
45°	9072	11746	9072	10309
50°	9615	10726	9615	9733
55°	9022	9628	9022	9400
60°	9266	8177	9266	8610
65°	8361	6761	8361	7556
70°	5750	5387	5750	6333
75°	4988	3982	4988	4769
80°	3936	2632	3936	2866
85°	2145	1394	2145	1185

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 13931 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.4	2.4
10°-20°	438.3	6.9
20°-30°	677.5	10.7
30°-40°	808.8	12.8
40°-50°	813.5	12.8
50°-60°	707.9	11.2
60°-70°	501.9	7.9
70°-80°	265.5	4.2
80°-90°	67.2	1.1
90°-100°	143.1	2.3
100°-110°	376.3	5.9
110°-120°	390.1	6.2
120°-130°	312.9	4.9
130°-140°	245.5	3.9
140°-150°	188.5	3.0
150°-160°	135.7	2.1
160°-170°	83.0	1.3
170°-180°	28.1	0.4
0°-30°	1270.2	20.0
0°-40°	2078.9	32.8
0°-60°	3600.4	56.8
0°-90°	4435.0	70.0
90°-120°	909.5	14.3
90°-150°	1656.4	26.1
90°-180°	1903.0	30.0
0°-180°	6338.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1710	1710	1710	1710	1710	
5°	1718	1772	1718	1393	1718	163
15°	1640	1755	1640	1466	1640	462
25°	1445	1637	1445	1433	1445	663
35°	1098	1461	1098	1247	1098	680
45°	709	1204	709	1056	709	568
55°	578	888	578	867	578	531
65°	401	536	401	599	401	383
75°	152	254	152	304	152	160
85°	26	65	26	55	26	35
90°	2	8	2	8	2	3
95°	19	86	19	86	19	21
105°	68	589	68	589	68	72
115°	120	759	120	759	120	119
125°	168	604	168	604	168	149
135°	200	469	200	469	200	154
145°	232	380	232	380	232	145
155°	262	328	262	328	262	120
165°	282	305	282	305	282	80
175°	294	296	294	296	294	28
180°	294	294	294	294	294	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1724.6	1724.6	1734.4	1737.6	1737.6	1732.8	1727.9	1732.8	1747.3	1752.2	1750.5
5°	1718.1	1731.1	1748.9	1752.2	1755.4	1753.8	1750.5	1753.8	1769.9	1773.2	1774.8
7.5°	1705.2	1729.5	1752.2	1757.0	1761.8	1757.0	1755.4	1758.7	1774.8	1778.1	1778.1
10°	1689.1	1723.0	1748.9	1752.2	1757.0	1752.2	1752.2	1758.7	1774.8	1778.1	1779.7
12.5°	1666.4	1713.3	1737.6	1740.8	1747.3	1745.7	1744.0	1750.5	1766.7	1769.9	1769.9
15°	1640.5	1695.6	1718.1	1721.4	1732.8	1729.5	1729.5	1736.0	1753.8	1758.7	1757.0
17.5°	1604.9	1672.9	1698.7	1703.6	1711.7	1710.1	1711.7	1718.1	1734.4	1737.6	1739.2
20°	1564.5	1642.1	1672.9	1677.7	1685.8	1685.8	1685.8	1693.9	1710.1	1716.6	1716.6
22.5°	1509.4	1609.8	1642.1	1645.4	1655.0	1655.0	1658.3	1669.7	1684.2	1685.8	1685.8
25°	1444.7	1574.1	1601.7	1611.4	1621.1	1626.0	1630.8	1637.2	1642.1	1640.5	1642.1
27.5°	1376.8	1528.8	1564.5	1570.9	1583.9	1588.8	1595.2	1596.8	1598.4	1603.3	1600.1
30°	1300.7	1465.7	1519.2	1525.7	1546.7	1549.9	1543.5	1546.7	1554.7	1558.0	1561.2
32.5°	1215.0	1372.0	1472.2	1486.8	1506.3	1496.5	1494.9	1499.8	1512.7	1512.7	1515.9
35°	1098.5	1299.1	1428.6	1441.6	1456.1	1444.7	1451.2	1452.8	1461.0	1465.7	1464.2
37.5°	970.7	1236.0	1383.2	1393.0	1404.3	1389.7	1399.5	1404.3	1410.8	1407.5	1407.5
40°	857.4	1137.4	1329.9	1336.4	1346.0	1334.8	1344.4	1347.7	1350.9	1347.7	1346.0
42.5°	773.3	1028.9	1273.3	1281.3	1274.8	1283.0	1286.2	1292.7	1287.8	1281.3	1281.3
45°	708.6	999.9	1211.7	1221.5	1211.7	1224.7	1229.6	1229.6	1215.0	1211.7	1210.2
47.5°	687.6	941.6	1150.3	1150.3	1145.5	1161.6	1169.7	1158.4	1143.9	1139.0	1139.0
50°	685.9	876.8	1066.1	1059.7	1082.4	1101.8	1093.7	1082.4	1071.0	1053.2	1053.2
52.5°	622.8	797.6	957.8	982.0	1017.7	1028.9	1016.0	1004.7	985.3	977.2	970.7
55°	577.6	715.1	859.1	907.6	944.8	959.3	935.2	923.8	894.7	889.8	886.6
57.5°	567.9	595.4	768.5	830.0	875.2	873.7	859.1	838.0	813.7	809.0	807.3
60°	520.9	430.4	671.4	744.2	791.1	786.3	773.3	753.9	731.2	728.0	724.8
62.5°	472.5	312.2	561.4	643.9	710.2	708.6	697.3	668.1	652.0	643.9	637.5
65°	401.2	262.1	399.6	535.6	631.0	634.2	609.9	588.9	571.1	561.4	559.7
67.5°	305.7	213.6	270.2	446.5	555.0	551.7	520.9	511.3	488.6	483.7	474.1
70°	226.5	142.3	187.7	362.4	480.5	472.5	448.2	436.8	415.8	404.5	398.0
72.5°	187.7	114.9	137.5	281.5	404.5	394.7	373.7	360.8	343.0	333.3	326.8
75°	152.1	121.3	105.2	208.7	328.4	322.0	302.6	289.6	275.0	262.1	263.7
77.5°	111.7	113.3	84.1	153.7	260.5	250.8	239.5	223.2	216.8	203.8	203.8
80°	84.1	89.0	63.1	105.2	187.7	187.7	178.0	166.6	155.4	148.8	148.8
82.5°	56.6	56.6	46.9	66.3	127.8	122.9	116.4	113.3	106.8	103.5	103.5
85°	25.9	32.3	29.2	40.4	69.6	72.8	72.8	69.6	68.0	64.7	66.3
87.5°	8.1	14.5	17.8	22.7	35.6	37.2	38.8	38.8	38.8	40.4	40.4
90°	2.0	3.5	5.2	5.5	8.7	12.9	15.0	13.3	9.9	7.5	7.5
92.5°	7.8	21.2	34.7	38.0	53.4	74.0	84.3	73.9	53.1	37.5	35.9
95°	18.9	43.4	68.0	74.1	131.5	208.1	246.5	219.9	166.8	127.1	122.6
97.5°	32.7	54.3	75.9	81.4	177.1	305.0	368.8	352.1	318.5	293.4	284.8
100°	43.3	62.9	82.6	87.5	193.8	335.6	406.5	407.7	410.2	412.0	401.8
102.5°	52.4	70.7	89.0	93.6	201.4	345.2	417.1	438.5	481.3	513.3	504.5
105°	67.8	83.3	98.8	102.7	207.1	346.4	416.0	463.9	559.6	631.5	626.8
107.5°	83.6	98.0	112.4	116.1	208.1	331.0	392.3	459.2	592.8	693.0	694.2
110°	94.2	107.2	120.3	123.5	206.6	317.3	372.6	447.3	596.7	708.8	713.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	104.6	117.0	129.4	132.6	206.6	305.3	354.7	431.2	584.0	698.7	706.3
115°	120.4	131.8	143.3	146.2	208.5	291.6	333.2	406.8	554.1	664.6	675.0
117.5°	135.9	146.4	156.8	159.4	212.4	283.1	318.4	384.9	517.8	617.5	629.0
120°	145.0	154.9	164.6	167.1	215.6	280.2	312.5	373.2	494.7	585.8	597.1
122.5°	153.9	163.9	173.7	176.2	220.1	278.7	307.9	362.6	472.1	554.1	565.2
125°	167.5	176.5	185.5	187.8	226.2	277.4	303.1	349.5	442.4	512.1	522.4
127.5°	178.5	187.7	196.7	199.0	232.3	276.8	298.9	338.8	418.5	478.4	487.0
130°	184.4	194.3	204.0	206.5	236.8	277.1	297.3	332.9	403.9	457.2	465.1
132.5°	190.5	200.4	210.1	212.6	240.4	277.4	296.0	327.7	391.3	439.0	446.2
135°	199.6	208.5	217.5	219.7	244.4	277.1	293.6	320.2	373.4	413.4	419.5
137.5°	208.9	217.7	226.6	228.8	250.3	278.9	293.2	315.7	360.7	394.4	399.5
140°	216.5	224.7	232.9	234.9	253.8	279.2	291.8	311.3	350.2	379.3	384.0
142.5°	222.5	230.0	237.5	239.4	256.9	280.1	291.8	308.9	343.0	368.6	372.6
145°	231.5	238.0	244.6	246.3	260.8	280.2	289.9	303.8	331.7	352.7	355.7
147.5°	240.6	247.0	253.3	255.0	266.6	282.1	289.9	300.9	322.8	339.3	341.9
150°	246.5	252.2	258.0	259.5	269.6	283.1	289.9	299.1	317.7	331.6	333.7
152.5°	252.6	257.0	261.4	262.4	271.6	283.7	289.9	297.8	313.7	325.5	327.0
155°	261.7	264.9	268.2	268.9	275.9	285.2	289.9	296.2	308.8	318.3	319.3
157.5°	268.3	271.5	274.7	275.4	280.2	286.6	289.9	294.7	304.6	311.9	312.7
160°	272.9	275.3	277.8	278.4	282.2	287.3	289.9	294.1	302.5	308.8	309.2
162.5°	277.4	279.2	281.1	281.5	284.3	288.0	289.9	293.4	300.5	305.8	306.2
165°	282.4	284.0	285.7	286.1	287.4	289.0	289.9	292.3	297.4	301.2	301.6
167.5°	286.9	287.7	288.4	288.6	289.7	291.1	291.8	293.5	296.8	299.3	299.5
170°	289.9	290.6	291.4	291.6	291.7	291.8	291.8	293.5	296.8	299.3	299.3
172.5°	291.4	291.6	291.8	291.8	291.8	291.8	291.8	293.1	295.7	297.7	297.5
175°	293.6	293.6	293.6	293.6	293.0	292.2	291.8	292.6	294.4	295.6	295.6
177.5°	293.6	293.6	293.6	293.6	293.1	292.5	292.2	292.9	294.3	295.2	295.0
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1753.8	1748.9	1753.8	1750.5	1752.2	1747.3	1732.8	1727.9	1732.8	1737.6	1737.6
5°	1774.8	1771.6	1774.8	1774.8	1773.2	1769.9	1753.8	1750.5	1753.8	1755.4	1752.2
7.5°	1781.2	1776.4	1781.2	1778.1	1778.1	1774.8	1758.7	1755.4	1757.0	1761.8	1757.0
10°	1781.2	1776.4	1781.2	1779.7	1778.1	1774.8	1758.7	1752.2	1752.2	1757.0	1752.2
12.5°	1773.2	1769.9	1773.2	1769.9	1769.9	1766.7	1750.5	1744.0	1745.7	1747.3	1740.8
15°	1760.2	1755.4	1760.2	1757.0	1758.7	1753.8	1736.0	1729.5	1729.5	1732.8	1721.4
17.5°	1740.8	1734.4	1740.8	1739.2	1737.6	1734.4	1718.1	1711.7	1710.1	1711.7	1703.6
20°	1718.1	1713.3	1718.1	1716.6	1716.6	1710.1	1693.9	1685.8	1685.8	1685.8	1677.7
22.5°	1682.6	1677.7	1682.6	1685.8	1685.8	1684.2	1669.7	1658.3	1655.0	1655.0	1645.4
25°	1642.1	1637.2	1642.1	1642.1	1640.5	1642.1	1637.2	1630.8	1626.0	1621.1	1611.4
27.5°	1603.3	1600.1	1603.3	1600.1	1603.3	1598.4	1596.8	1595.2	1588.8	1583.9	1570.9
30°	1564.5	1561.2	1564.5	1561.2	1558.0	1554.7	1546.7	1543.5	1549.9	1546.7	1525.7
32.5°	1515.9	1512.7	1515.9	1515.9	1512.7	1512.7	1499.8	1494.9	1496.5	1506.3	1486.8
35°	1465.7	1461.0	1465.7	1464.2	1465.7	1461.0	1452.8	1451.2	1444.7	1456.1	1441.6
37.5°	1407.5	1402.6	1407.5	1407.5	1407.5	1410.8	1404.3	1399.5	1389.7	1404.3	1393.0
40°	1347.7	1341.2	1347.7	1346.0	1347.7	1350.9	1347.7	1344.4	1334.8	1346.0	1336.4
42.5°	1279.7	1278.1	1279.7	1281.3	1281.3	1287.8	1292.7	1286.2	1283.0	1274.8	1281.3
45°	1207.0	1203.7	1207.0	1210.2	1211.7	1215.0	1229.6	1229.6	1224.7	1211.7	1221.5
47.5°	1129.2	1121.2	1129.2	1139.0	1139.0	1143.9	1158.4	1169.7	1161.6	1145.5	1150.3
50°	1046.7	1048.3	1046.7	1053.2	1053.2	1071.0	1082.4	1093.7	1101.8	1082.4	1059.7
52.5°	965.8	964.2	965.8	970.7	977.2	985.3	1004.7	1016.0	1028.9	1017.7	982.0
55°	885.0	888.2	885.0	886.6	889.8	894.7	923.8	935.2	959.3	944.8	907.6
57.5°	804.1	799.2	804.1	807.3	809.0	813.7	838.0	859.1	873.7	875.2	830.0
60°	710.2	703.8	710.2	724.8	728.0	731.2	753.9	773.3	786.3	791.1	744.2
62.5°	627.7	616.4	627.7	637.5	643.9	652.0	668.1	697.3	708.6	710.2	643.9
65°	540.3	535.6	540.3	559.7	561.4	571.1	588.9	609.9	634.2	631.0	535.6
67.5°	461.1	461.1	461.1	474.1	483.7	488.6	511.3	520.9	551.7	555.0	446.5
70°	388.3	386.7	388.3	398.0	404.5	415.8	436.8	448.2	472.5	480.5	362.4
72.5°	318.7	317.1	318.7	326.8	333.3	343.0	360.8	373.7	394.7	404.5	281.5
75°	257.3	254.0	257.3	263.7	262.1	275.0	289.6	302.6	322.0	328.4	208.7
77.5°	197.4	197.4	197.4	203.8	203.8	216.8	223.2	239.5	250.8	260.5	153.7
80°	147.2	145.6	147.2	148.8	148.8	155.4	166.6	178.0	187.7	187.7	105.2
82.5°	103.5	100.3	103.5	103.5	103.5	106.8	113.3	116.4	122.9	127.8	66.3
85°	64.7	64.7	64.7	66.3	64.7	68.0	69.6	72.8	72.8	69.6	40.4
87.5°	42.1	40.4	42.1	40.4	40.4	38.8	38.8	38.8	37.2	35.6	22.7
90°	7.5	7.5	7.5	7.5	7.5	9.9	13.3	15.0	12.9	8.7	5.5
92.5°	30.0	24.0	30.0	35.9	37.5	53.1	73.9	84.3	74.0	53.4	38.0
95°	104.5	86.5	104.5	122.6	127.1	166.8	219.9	246.5	208.1	131.5	74.1
97.5°	250.5	216.2	250.5	284.8	293.4	318.5	352.1	368.8	305.0	177.1	81.4
100°	360.9	320.0	360.9	401.8	412.0	410.2	407.7	406.5	335.6	193.8	87.5
102.5°	469.5	434.5	469.5	504.5	513.3	481.3	438.5	417.1	345.2	201.4	93.6
105°	608.0	589.2	608.0	626.8	631.5	559.6	463.9	416.0	346.4	207.1	102.7
107.5°	698.6	703.2	698.6	694.2	693.0	592.8	459.2	392.3	331.0	208.1	116.1
110°	733.3	752.8	733.3	713.7	708.8	596.7	447.3	372.6	317.3	206.6	123.5





TEST NUMBER: P934510

CATALOG NUMBER: SQ4-FA-050U-125D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	736.4	766.5	736.4	706.3	698.7	584.0	431.2	354.7	305.3	206.6	132.6
115°	716.8	758.6	716.8	675.0	664.6	554.1	406.8	333.2	291.6	208.5	146.2
117.5°	675.4	721.8	675.4	629.0	617.5	517.8	384.9	318.4	283.1	212.4	159.4
120°	642.0	687.1	642.0	597.1	585.8	494.7	373.2	312.5	280.2	215.6	167.1
122.5°	609.6	654.0	609.6	565.2	554.1	472.1	362.6	307.9	278.7	220.1	176.2
125°	563.2	604.1	563.2	522.4	512.1	442.4	349.5	303.1	277.4	226.2	187.8
127.5°	521.5	556.0	521.5	487.0	478.4	418.5	338.8	298.9	276.8	232.3	199.0
130°	497.0	528.9	497.0	465.1	457.2	403.9	332.9	297.3	277.1	236.8	206.5
132.5°	474.7	503.2	474.7	446.2	439.0	391.3	327.7	296.0	277.4	240.4	212.6
135°	444.2	468.7	444.2	419.5	413.4	373.4	320.2	293.6	277.1	244.4	219.7
137.5°	419.6	439.8	419.6	399.5	394.4	360.7	315.7	293.2	278.9	250.3	228.8
140°	402.9	421.7	402.9	384.0	379.3	350.2	311.3	291.8	279.2	253.8	234.9
142.5°	388.9	405.2	388.9	372.6	368.6	343.0	308.9	291.8	280.1	256.9	239.4
145°	368.1	380.3	368.1	355.7	352.7	331.7	303.8	289.9	280.2	260.8	246.3
147.5°	352.0	362.1	352.0	341.9	339.3	322.8	300.9	289.9	282.1	266.6	255.0
150°	342.0	350.2	342.0	333.7	331.6	317.7	299.1	289.9	283.1	269.6	259.5
152.5°	333.3	339.5	333.3	327.0	325.5	313.7	297.8	289.9	283.7	271.6	262.4
155°	323.4	327.5	323.4	319.3	318.3	308.8	296.2	289.9	285.2	275.9	268.9
157.5°	315.6	318.4	315.6	312.7	311.9	304.6	294.7	289.9	286.6	280.2	275.4
160°	310.9	312.5	310.9	309.2	308.8	302.5	294.1	289.9	287.3	282.2	278.4
162.5°	307.8	309.4	307.8	306.2	305.8	300.5	293.4	289.9	288.0	284.3	281.5
165°	303.3	305.1	303.3	301.6	301.2	297.4	292.3	289.9	289.0	287.4	286.1
167.5°	300.2	300.9	300.2	299.5	299.3	296.8	293.5	291.8	291.1	289.7	288.6
170°	299.3	299.3	299.3	299.3	299.3	296.8	293.5	291.8	291.8	291.7	291.6
172.5°	296.9	296.4	296.9	297.5	297.7	295.7	293.1	291.8	291.8	291.8	291.8
175°	295.6	295.6	295.6	295.6	295.6	294.4	292.6	291.8	292.2	293.0	293.6
177.5°	294.4	293.6	294.4	295.0	295.2	294.3	292.9	292.2	292.5	293.1	293.6
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934510

CATALOG NUMBER: SQ4-FA-050U-125D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1734.4	1724.6	1724.6	1708.5	1702.0	1697.1	1689.1	1664.8	1658.3	1651.9	1661.5
5°	1748.9	1731.1	1718.1	1689.1	1664.8	1655.0	1624.3	1566.1	1527.3	1498.1	1482.0
7.5°	1752.2	1729.5	1705.2	1659.9	1601.7	1575.8	1482.0	1375.2	1346.0	1320.1	1304.0
10°	1748.9	1723.0	1689.1	1621.1	1483.6	1438.3	1344.4	1274.8	1257.0	1252.3	1257.0
12.5°	1737.6	1713.3	1666.4	1553.1	1360.6	1329.9	1274.8	1234.4	1231.2	1239.3	1283.0
15°	1718.1	1695.6	1640.5	1462.6	1292.7	1270.0	1231.2	1216.6	1234.4	1291.1	1422.1
17.5°	1698.7	1672.9	1604.9	1373.6	1240.9	1224.7	1197.2	1226.4	1326.6	1402.6	1446.3
20°	1672.9	1642.1	1564.5	1308.9	1203.7	1189.2	1176.2	1307.2	1383.2	1410.8	1435.1
22.5°	1642.1	1609.8	1509.4	1263.5	1164.9	1153.5	1161.6	1352.5	1383.2	1402.6	1423.7
25°	1601.7	1574.1	1444.7	1228.0	1134.1	1121.2	1151.9	1347.7	1365.5	1370.3	1412.4
27.5°	1564.5	1528.8	1376.8	1195.6	1096.9	1092.0	1160.0	1326.6	1339.5	1344.4	1389.7
30°	1519.2	1465.7	1300.7	1161.6	1058.1	1056.5	1161.6	1300.7	1297.5	1310.5	1355.8
32.5°	1472.2	1372.0	1215.0	1119.6	1020.9	1019.3	1150.3	1261.9	1258.7	1276.5	1310.5
35°	1428.6	1299.1	1098.5	1071.0	974.0	975.6	1122.8	1216.6	1218.2	1234.4	1255.4
37.5°	1383.2	1236.0	970.7	1017.7	928.7	928.7	1085.5	1174.5	1171.3	1176.2	1205.3
40°	1329.9	1137.4	857.4	948.1	886.6	881.7	1040.3	1129.2	1117.9	1116.3	1156.8
42.5°	1273.3	1028.9	773.3	855.8	838.0	831.6	985.3	1074.3	1053.2	1058.1	1109.8
45°	1211.7	999.9	708.6	723.2	787.9	783.1	925.4	1011.2	996.6	1009.5	1063.0
47.5°	1150.3	941.6	687.6	600.3	734.5	732.9	859.1	949.7	941.6	954.6	1011.2
50°	1066.1	876.8	685.9	514.5	674.6	681.2	779.8	889.8	889.8	901.1	961.0
52.5°	957.8	797.6	622.8	466.0	605.1	624.5	710.2	838.0	841.3	852.7	906.0
55°	859.1	715.1	577.6	428.8	522.5	564.6	642.3	784.7	791.1	802.5	851.0
57.5°	768.5	595.4	567.9	385.1	446.5	487.0	582.4	732.9	736.1	745.9	792.7
60°	671.4	430.4	520.9	338.1	380.2	410.9	527.4	671.4	682.8	689.2	729.6
62.5°	561.4	312.2	472.5	305.7	347.8	354.3	482.1	613.2	627.7	632.6	656.9
65°	399.6	262.1	401.2	278.3	313.9	315.5	433.5	553.3	566.2	574.4	592.1
67.5°	270.2	213.6	305.7	252.4	287.9	289.6	386.7	483.7	501.5	508.0	519.3
70°	187.7	142.3	226.5	224.9	258.9	262.1	336.5	420.6	436.8	441.7	448.2
72.5°	137.5	114.9	187.7	202.2	228.1	231.4	284.7	349.4	365.7	370.4	373.7
75°	105.2	121.3	152.1	176.4	194.2	195.8	233.0	284.7	296.1	299.3	300.9
77.5°	84.1	113.3	111.7	142.3	158.5	155.4	182.8	220.1	229.7	229.7	229.7
80°	63.1	89.0	84.1	101.9	116.4	113.3	131.1	157.0	160.1	163.4	161.8
82.5°	46.9	56.6	56.6	64.7	77.6	74.4	87.4	101.9	101.9	101.9	105.2
85°	29.2	32.3	25.9	33.9	43.7	42.1	48.6	55.0	56.6	56.6	53.3
87.5°	17.8	14.5	8.1	12.9	19.4	19.4	22.7	24.3	22.7	22.7	22.7
90°	5.2	3.5	2.0	3.5	5.2	5.5	8.7	12.9	15.0	13.3	9.9
92.5°	34.7	21.2	7.8	21.2	34.7	38.0	53.4	74.0	84.3	73.9	53.1
95°	68.0	43.4	18.9	43.4	68.0	74.1	131.5	208.1	246.5	219.9	166.8
97.5°	75.9	54.3	32.7	54.3	75.9	81.4	177.1	305.0	368.8	352.1	318.5
100°	82.6	62.9	43.3	62.9	82.6	87.5	193.8	335.6	406.5	407.7	410.2
102.5°	89.0	70.7	52.4	70.7	89.0	93.6	201.4	345.2	417.1	438.5	481.3
105°	98.8	83.3	67.8	83.3	98.8	102.7	207.1	346.4	416.0	463.9	559.6
107.5°	112.4	98.0	83.6	98.0	112.4	116.1	208.1	331.0	392.3	459.2	592.8
110°	120.3	107.2	94.2	107.2	120.3	123.5	206.6	317.3	372.6	447.3	596.7



TEST NUMBER: P934510

CATALOG NUMBER: SQ4-FA-050U-125D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	129.4	117.0	104.6	117.0	129.4	132.6	206.6	305.3	354.7	431.2	584.0
115°	143.3	131.8	120.4	131.8	143.3	146.2	208.5	291.6	333.2	406.8	554.1
117.5°	156.8	146.4	135.9	146.4	156.8	159.4	212.4	283.1	318.4	384.9	517.8
120°	164.6	154.9	145.0	154.9	164.6	167.1	215.6	280.2	312.5	373.2	494.7
122.5°	173.7	163.9	153.9	163.9	173.7	176.2	220.1	278.7	307.9	362.6	472.1
125°	185.5	176.5	167.5	176.5	185.5	187.8	226.2	277.4	303.1	349.5	442.4
127.5°	196.7	187.7	178.5	187.7	196.7	199.0	232.3	276.8	298.9	338.8	418.5
130°	204.0	194.3	184.4	194.3	204.0	206.5	236.8	277.1	297.3	332.9	403.9
132.5°	210.1	200.4	190.5	200.4	210.1	212.6	240.4	277.4	296.0	327.7	391.3
135°	217.5	208.5	199.6	208.5	217.5	219.7	244.4	277.1	293.6	320.2	373.4
137.5°	226.6	217.7	208.9	217.7	226.6	228.8	250.3	278.9	293.2	315.7	360.7
140°	232.9	224.7	216.5	224.7	232.9	234.9	253.8	279.2	291.8	311.3	350.2
142.5°	237.5	230.0	222.5	230.0	237.5	239.4	256.9	280.1	291.8	308.9	343.0
145°	244.6	238.0	231.5	238.0	244.6	246.3	260.8	280.2	289.9	303.8	331.7
147.5°	253.3	247.0	240.6	247.0	253.3	255.0	266.6	282.1	289.9	300.9	322.8
150°	258.0	252.2	246.5	252.2	258.0	259.5	269.6	283.1	289.9	299.1	317.7
152.5°	261.4	257.0	252.6	257.0	261.4	262.4	271.6	283.7	289.9	297.8	313.7
155°	268.2	264.9	261.7	264.9	268.2	268.9	275.9	285.2	289.9	296.2	308.8
157.5°	274.7	271.5	268.3	271.5	274.7	275.4	280.2	286.6	289.9	294.7	304.6
160°	277.8	275.3	272.9	275.3	277.8	278.4	282.2	287.3	289.9	294.1	302.5
162.5°	281.1	279.2	277.4	279.2	281.1	281.5	284.3	288.0	289.9	293.4	300.5
165°	285.7	284.0	282.4	284.0	285.7	286.1	287.4	289.0	289.9	292.3	297.4
167.5°	288.4	287.7	286.9	287.7	288.4	288.6	289.7	291.1	291.8	293.5	296.8
170°	291.4	290.6	289.9	290.6	291.4	291.6	291.7	291.8	291.8	293.5	296.8
172.5°	291.8	291.6	291.4	291.6	291.8	291.8	291.8	291.8	291.8	293.1	295.7
175°	293.6	293.6	293.6	293.6	293.6	293.6	293.0	292.2	291.8	292.6	294.4
177.5°	293.6	293.6	293.6	293.6	293.6	293.6	293.1	292.5	292.2	292.9	294.3
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934510  
 CATALOG NUMBER: SQ4-FA-050U-125D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1650.2	1645.4	1651.9	1634.0	1651.9	1645.4	1650.2	1661.5	1651.9	1658.3	1664.8
5°	1448.0	1439.9	1414.0	1393.0	1414.0	1439.9	1448.0	1482.0	1498.1	1527.3	1566.1
7.5°	1294.3	1287.8	1281.3	1268.4	1281.3	1287.8	1294.3	1304.0	1320.1	1346.0	1375.2
10°	1260.3	1261.9	1271.7	1270.0	1271.7	1261.9	1260.3	1257.0	1252.3	1257.0	1274.8
12.5°	1347.7	1362.2	1415.6	1412.4	1415.6	1362.2	1347.7	1283.0	1239.3	1231.2	1234.4
15°	1448.0	1452.8	1464.2	1465.7	1464.2	1452.8	1448.0	1422.1	1291.1	1234.4	1216.6
17.5°	1457.7	1459.3	1467.4	1467.4	1467.4	1459.3	1457.7	1446.3	1402.6	1326.6	1226.4
20°	1449.6	1452.8	1469.0	1472.2	1469.0	1452.8	1449.6	1435.1	1410.8	1383.2	1307.2
22.5°	1446.3	1452.8	1465.7	1464.2	1465.7	1452.8	1446.3	1423.7	1402.6	1383.2	1352.5
25°	1430.2	1430.2	1431.8	1433.4	1431.8	1430.2	1430.2	1412.4	1370.3	1365.5	1347.7
27.5°	1396.2	1399.5	1409.1	1407.5	1409.1	1399.5	1396.2	1389.7	1344.4	1339.5	1326.6
30°	1365.5	1362.2	1354.2	1347.7	1354.2	1362.2	1365.5	1355.8	1310.5	1297.5	1300.7
32.5°	1313.7	1305.6	1297.5	1292.7	1297.5	1305.6	1313.7	1310.5	1276.5	1258.7	1261.9
35°	1252.3	1253.8	1252.3	1247.4	1252.3	1253.8	1252.3	1255.4	1234.4	1218.2	1216.6
37.5°	1208.6	1211.7	1210.2	1203.7	1210.2	1211.7	1208.6	1205.3	1176.2	1171.3	1174.5
40°	1163.3	1164.9	1163.3	1158.4	1163.3	1164.9	1163.3	1156.8	1116.3	1117.9	1129.2
42.5°	1119.6	1117.9	1113.1	1109.8	1113.1	1117.9	1119.6	1109.8	1058.1	1053.2	1074.3
45°	1069.4	1071.0	1061.4	1056.5	1061.4	1071.0	1069.4	1063.0	1009.5	996.6	1011.2
47.5°	1019.3	1019.3	1011.2	1006.3	1011.2	1019.3	1019.3	1011.2	954.6	941.6	949.7
50°	965.8	964.2	952.9	951.3	952.9	964.2	965.8	961.0	901.1	889.8	889.8
52.5°	904.4	904.4	906.0	909.3	906.0	904.4	904.4	906.0	852.7	841.3	838.0
55°	851.0	852.7	863.9	867.2	863.9	852.7	851.0	851.0	802.5	791.1	784.7
57.5°	796.0	796.0	804.1	804.1	804.1	796.0	796.0	792.7	745.9	736.1	732.9
60°	732.9	736.1	742.6	741.0	742.6	736.1	732.9	729.6	689.2	682.8	671.4
62.5°	666.5	669.8	671.4	668.1	671.4	669.8	666.5	656.9	632.6	627.7	613.2
65°	597.0	600.3	601.8	598.6	601.8	600.3	597.0	592.1	574.4	566.2	553.3
67.5°	525.8	524.2	522.5	529.1	522.5	524.2	525.8	519.3	508.0	501.5	483.7
70°	453.0	453.0	451.4	454.6	451.4	453.0	453.0	448.2	441.7	436.8	420.6
72.5°	375.3	373.7	380.2	375.3	380.2	373.7	375.3	373.7	370.4	365.7	349.4
75°	299.3	302.6	299.3	304.2	299.3	302.6	299.3	300.9	299.3	296.1	284.7
77.5°	228.1	231.4	228.1	228.1	228.1	231.4	228.1	229.7	229.7	229.7	220.1
80°	161.8	160.1	160.1	158.5	160.1	160.1	161.8	161.8	163.4	160.1	157.0
82.5°	103.5	101.9	101.9	105.2	101.9	101.9	103.5	105.2	101.9	101.9	101.9
85°	56.6	58.2	55.0	55.0	55.0	58.2	56.6	53.3	56.6	56.6	55.0
87.5°	21.0	19.4	19.4	19.4	19.4	19.4	21.0	22.7	22.7	22.7	24.3
90°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	9.9	13.3	15.0	12.9
92.5°	37.5	35.9	30.0	24.0	30.0	35.9	37.5	53.1	73.9	84.3	74.0
95°	127.1	122.6	104.5	86.5	104.5	122.6	127.1	166.8	219.9	246.5	208.1
97.5°	293.4	284.8	250.5	216.2	250.5	284.8	293.4	318.5	352.1	368.8	305.0
100°	412.0	401.8	360.9	320.0	360.9	401.8	412.0	410.2	407.7	406.5	335.6
102.5°	513.3	504.5	469.5	434.5	469.5	504.5	513.3	481.3	438.5	417.1	345.2
105°	631.5	626.8	608.0	589.2	608.0	626.8	631.5	559.6	463.9	416.0	346.4
107.5°	693.0	694.2	698.6	703.2	698.6	694.2	693.0	592.8	459.2	392.3	331.0
110°	708.8	713.7	733.3	752.8	733.3	713.7	708.8	596.7	447.3	372.6	317.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	698.7	706.3	736.4	766.5	736.4	706.3	698.7	584.0	431.2	354.7	305.3
115°	664.6	675.0	716.8	758.6	716.8	675.0	664.6	554.1	406.8	333.2	291.6
117.5°	617.5	629.0	675.4	721.8	675.4	629.0	617.5	517.8	384.9	318.4	283.1
120°	585.8	597.1	642.0	687.1	642.0	597.1	585.8	494.7	373.2	312.5	280.2
122.5°	554.1	565.2	609.6	654.0	609.6	565.2	554.1	472.1	362.6	307.9	278.7
125°	512.1	522.4	563.2	604.1	563.2	522.4	512.1	442.4	349.5	303.1	277.4
127.5°	478.4	487.0	521.5	556.0	521.5	487.0	478.4	418.5	338.8	298.9	276.8
130°	457.2	465.1	497.0	528.9	497.0	465.1	457.2	403.9	332.9	297.3	277.1
132.5°	439.0	446.2	474.7	503.2	474.7	446.2	439.0	391.3	327.7	296.0	277.4
135°	413.4	419.5	444.2	468.7	444.2	419.5	413.4	373.4	320.2	293.6	277.1
137.5°	394.4	399.5	419.6	439.8	419.6	399.5	394.4	360.7	315.7	293.2	278.9
140°	379.3	384.0	402.9	421.7	402.9	384.0	379.3	350.2	311.3	291.8	279.2
142.5°	368.6	372.6	388.9	405.2	388.9	372.6	368.6	343.0	308.9	291.8	280.1
145°	352.7	355.7	368.1	380.3	368.1	355.7	352.7	331.7	303.8	289.9	280.2
147.5°	339.3	341.9	352.0	362.1	352.0	341.9	339.3	322.8	300.9	289.9	282.1
150°	331.6	333.7	342.0	350.2	342.0	333.7	331.6	317.7	299.1	289.9	283.1
152.5°	325.5	327.0	333.3	339.5	333.3	327.0	325.5	313.7	297.8	289.9	283.7
155°	318.3	319.3	323.4	327.5	323.4	319.3	318.3	308.8	296.2	289.9	285.2
157.5°	311.9	312.7	315.6	318.4	315.6	312.7	311.9	304.6	294.7	289.9	286.6
160°	308.8	309.2	310.9	312.5	310.9	309.2	308.8	302.5	294.1	289.9	287.3
162.5°	305.8	306.2	307.8	309.4	307.8	306.2	305.8	300.5	293.4	289.9	288.0
165°	301.2	301.6	303.3	305.1	303.3	301.6	301.2	297.4	292.3	289.9	289.0
167.5°	299.3	299.5	300.2	300.9	300.2	299.5	299.3	296.8	293.5	291.8	291.1
170°	299.3	299.3	299.3	299.3	299.3	299.3	299.3	296.8	293.5	291.8	291.8
172.5°	297.7	297.5	296.9	296.4	296.9	297.5	297.7	295.7	293.1	291.8	291.8
175°	295.6	295.6	295.6	295.6	295.6	295.6	295.6	294.4	292.6	291.8	292.2
177.5°	295.2	295.0	294.4	293.6	294.4	295.0	295.2	294.3	292.9	292.2	292.5
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934510

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1689.1	1697.1	1702.0	1708.5	1724.6
5°	1624.3	1655.0	1664.8	1689.1	1718.1
7.5°	1482.0	1575.8	1601.7	1659.9	1705.2
10°	1344.4	1438.3	1483.6	1621.1	1689.1
12.5°	1274.8	1329.9	1360.6	1553.1	1666.4
15°	1231.2	1270.0	1292.7	1462.6	1640.5
17.5°	1197.2	1224.7	1240.9	1373.6	1604.9
20°	1176.2	1189.2	1203.7	1308.9	1564.5
22.5°	1161.6	1153.5	1164.9	1263.5	1509.4
25°	1151.9	1121.2	1134.1	1228.0	1444.7
27.5°	1160.0	1092.0	1096.9	1195.6	1376.8
30°	1161.6	1056.5	1058.1	1161.6	1300.7
32.5°	1150.3	1019.3	1020.9	1119.6	1215.0
35°	1122.8	975.6	974.0	1071.0	1098.5
37.5°	1085.5	928.7	928.7	1017.7	970.7
40°	1040.3	881.7	886.6	948.1	857.4
42.5°	985.3	831.6	838.0	855.8	773.3
45°	925.4	783.1	787.9	723.2	708.6
47.5°	859.1	732.9	734.5	600.3	687.6
50°	779.8	681.2	674.6	514.5	685.9
52.5°	710.2	624.5	605.1	466.0	622.8
55°	642.3	564.6	522.5	428.8	577.6
57.5°	582.4	487.0	446.5	385.1	567.9
60°	527.4	410.9	380.2	338.1	520.9
62.5°	482.1	354.3	347.8	305.7	472.5
65°	433.5	315.5	313.9	278.3	401.2
67.5°	386.7	289.6	287.9	252.4	305.7
70°	336.5	262.1	258.9	224.9	226.5
72.5°	284.7	231.4	228.1	202.2	187.7
75°	233.0	195.8	194.2	176.4	152.1
77.5°	182.8	155.4	158.5	142.3	111.7
80°	131.1	113.3	116.4	101.9	84.1
82.5°	87.4	74.4	77.6	64.7	56.6
85°	48.6	42.1	43.7	33.9	25.9
87.5°	22.7	19.4	19.4	12.9	8.1
90°	8.7	5.5	5.2	3.5	2.0
92.5°	53.4	38.0	34.7	21.2	7.8
95°	131.5	74.1	68.0	43.4	18.9
97.5°	177.1	81.4	75.9	54.3	32.7
100°	193.8	87.5	82.6	62.9	43.3
102.5°	201.4	93.6	89.0	70.7	52.4
105°	207.1	102.7	98.8	83.3	67.8
107.5°	208.1	116.1	112.4	98.0	83.6
110°	206.6	123.5	120.3	107.2	94.2



TEST NUMBER: P934510

CATALOG NUMBER: SQ4-FA-050U-125D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	206.6	132.6	129.4	117.0	104.6
115°	208.5	146.2	143.3	131.8	120.4
117.5°	212.4	159.4	156.8	146.4	135.9
120°	215.6	167.1	164.6	154.9	145.0
122.5°	220.1	176.2	173.7	163.9	153.9
125°	226.2	187.8	185.5	176.5	167.5
127.5°	232.3	199.0	196.7	187.7	178.5
130°	236.8	206.5	204.0	194.3	184.4
132.5°	240.4	212.6	210.1	200.4	190.5
135°	244.4	219.7	217.5	208.5	199.6
137.5°	250.3	228.8	226.6	217.7	208.9
140°	253.8	234.9	232.9	224.7	216.5
142.5°	256.9	239.4	237.5	230.0	222.5
145°	260.8	246.3	244.6	238.0	231.5
147.5°	266.6	255.0	253.3	247.0	240.6
150°	269.6	259.5	258.0	252.2	246.5
152.5°	271.6	262.4	261.4	257.0	252.6
155°	275.9	268.9	268.2	264.9	261.7
157.5°	280.2	275.4	274.7	271.5	268.3
160°	282.2	278.4	277.8	275.3	272.9
162.5°	284.3	281.5	281.1	279.2	277.4
165°	287.4	286.1	285.7	284.0	282.4
167.5°	289.7	288.6	288.4	287.7	286.9
170°	291.7	291.6	291.4	290.6	289.9
172.5°	291.8	291.8	291.8	291.6	291.4
175°	293.0	293.6	293.6	293.6	293.6
177.5°	293.1	293.6	293.6	293.6	293.6
180°	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934510  
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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	16.06	17.14	16.83	17.93	18.88	18.86	19.94	19.63	20.72	21.68
	3H	16.56	17.52	17.34	18.32	19.30	20.21	21.18	20.99	21.98	22.96
	4H	16.76	17.67	17.56	18.47	19.47	20.66	21.57	21.46	22.38	23.37
	6H	16.89	17.73	17.70	18.54	19.55	20.95	21.79	21.76	22.60	23.61
	8H	16.90	17.70	17.71	18.53	19.54	21.03	21.83	21.84	22.66	23.67
	12H	16.88	17.64	17.70	18.46	19.50	21.07	21.83	21.89	22.66	23.69
4H	2H	17.12	18.03	17.92	18.83	19.83	19.30	20.21	20.10	21.01	22.01
	3H	18.16	18.92	18.97	19.76	20.77	20.81	21.57	21.63	22.41	23.43
	4H	18.45	19.14	19.27	19.98	21.02	21.35	22.04	22.17	22.87	23.91
	6H	18.58	19.18	19.43	20.04	21.09	21.71	22.31	22.56	23.17	24.22
	8H	18.60	19.15	19.44	20.01	21.07	21.82	22.38	22.67	23.24	24.29
	12H	18.57	19.07	19.44	19.95	21.02	21.88	22.39	22.75	23.26	24.33
8H	4H	18.91	19.47	19.76	20.33	21.39	21.49	22.05	22.33	22.90	23.96
	6H	19.18	19.64	20.06	20.54	21.60	21.92	22.39	22.80	23.29	24.34
	8H	19.23	19.64	20.11	20.53	21.61	22.07	22.48	22.96	23.38	24.45
	12H	19.22	19.58	20.11	20.47	21.60	22.18	22.54	23.06	23.42	24.55
12H	4H	18.93	19.43	19.79	20.31	21.37	21.46	21.96	22.33	22.84	23.91
	6H	19.24	19.65	20.13	20.55	21.62	21.92	22.33	22.81	23.23	24.30
	8H	19.32	19.68	20.21	20.57	21.70	22.09	22.45	22.98	23.34	24.47