

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: P934174

Luminaire Tested: SQ4-FA-025U-125D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934174
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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

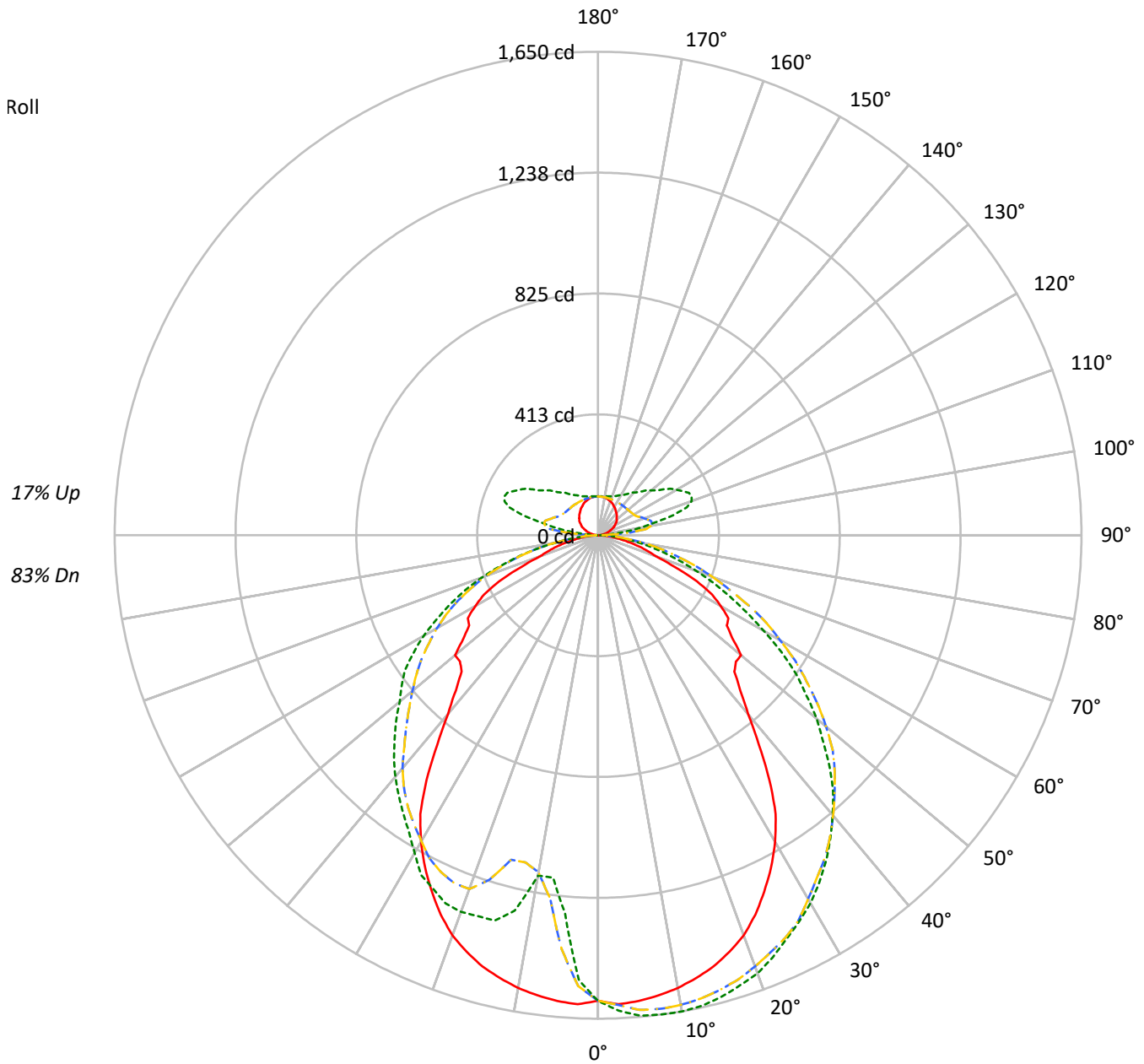
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4978.1 lumens
Efficiency: N/A
Efficacy: 100.4 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 (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	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°	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	2.9
10°-20°	407.1	8.2
20°-30°	629.3	12.6
30°-40°	751.3	15.1
40°-50°	755.7	15.2
50°-60°	657.5	13.2
60°-70°	466.2	9.4
70°-80°	246.6	5.0
80°-90°	61.9	1.2
90°-100°	64.6	1.3
100°-110°	169.8	3.4
110°-120°	176.1	3.5
120°-130°	141.2	2.8
130°-140°	110.8	2.2
140°-150°	85.1	1.7
150°-160°	61.3	1.2
160°-170°	37.5	0.8
170°-180°	12.7	0.3
0°-30°	1179.8	23.7
0°-40°	1931.1	38.8
0°-60°	3344.3	67.2
0°-90°	4119.0	82.7
90°-120°	410.5	8.2
90°-150°	747.7	15.0
90°-180°	859.0	17.3
0°-180°	4978.1	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°	1	3	1	3	1	2
95°	8	39	8	39	8	9
105°	31	266	31	266	31	32
115°	54	342	54	342	54	54
125°	76	273	76	273	76	67
135°	90	212	90	212	90	70
145°	104	172	104	172	104	65
155°	118	148	118	148	118	54
165°	127	138	127	138	127	36
175°	132	133	132	133	132	13
180°	132	132	132	132	132	



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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°	0.9	1.6	2.3	2.5	3.9	5.8	6.7	6.0	4.5	3.4	3.4
92.5°	3.6	9.6	15.6	17.1	24.2	33.5	38.1	33.4	24.0	16.9	16.2
95°	8.5	19.6	30.7	33.5	59.4	94.0	111.3	99.3	75.3	57.4	55.3
97.5°	14.7	24.5	34.3	36.8	80.0	137.6	166.5	159.0	143.8	132.4	128.5
100°	19.5	28.4	37.3	39.5	87.5	151.5	183.5	184.0	185.1	185.9	181.3
102.5°	23.6	31.9	40.2	42.3	90.9	155.8	188.3	197.9	217.2	231.7	227.7
105°	30.6	37.7	44.6	46.4	93.5	156.3	187.7	209.4	252.6	285.0	282.9
107.5°	37.7	44.2	50.8	52.4	94.0	149.4	177.1	207.3	267.6	312.8	313.4
110°	42.5	48.4	54.3	55.8	93.2	143.2	168.2	201.9	269.3	319.9	322.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.2	52.8	58.4	59.9	93.2	137.8	160.1	194.6	263.6	315.4	318.8
115°	54.3	59.5	64.6	66.0	94.1	131.7	150.4	183.6	250.1	300.0	304.7
117.5°	61.4	66.1	70.8	71.9	95.9	127.8	143.8	173.8	233.7	278.7	284.0
120°	65.4	69.9	74.3	75.4	97.2	126.5	141.0	168.5	223.3	264.4	269.5
122.5°	69.4	73.9	78.3	79.5	99.3	125.7	139.0	163.7	213.0	250.1	255.0
125°	75.6	79.7	83.7	84.8	102.1	125.2	136.8	157.7	199.7	231.1	235.8
127.5°	80.5	84.7	88.8	89.9	104.9	124.9	134.9	152.9	189.0	216.0	219.9
130°	83.2	87.6	92.1	93.2	106.9	125.1	134.2	150.2	182.3	206.4	209.9
132.5°	86.0	90.5	94.9	96.0	108.5	125.2	133.6	147.9	176.6	198.2	201.4
135°	90.1	94.1	98.2	99.2	110.3	125.1	132.5	144.5	168.5	186.6	189.3
137.5°	94.3	98.3	102.3	103.3	113.0	125.8	132.3	142.4	162.8	178.0	180.4
140°	97.8	101.4	105.1	106.0	114.6	126.0	131.7	140.5	158.1	171.2	173.3
142.5°	100.4	103.8	107.2	108.1	116.0	126.5	131.7	139.4	154.9	166.4	168.3
145°	104.5	107.4	110.5	111.2	117.7	126.5	130.8	137.1	149.7	159.2	160.6
147.5°	108.6	111.4	114.4	115.1	120.3	127.3	130.8	135.8	145.7	153.2	154.3
150°	111.3	113.8	116.5	117.1	121.7	127.8	130.8	135.0	143.4	149.7	150.6
152.5°	114.0	116.0	117.9	118.5	122.5	128.0	130.8	134.4	141.5	147.0	147.7
155°	118.1	119.5	121.0	121.4	124.5	128.7	130.8	133.6	139.4	143.7	144.1
157.5°	121.1	122.5	124.0	124.3	126.5	129.4	130.8	133.0	137.5	140.7	141.1
160°	123.2	124.2	125.4	125.7	127.3	129.6	130.8	132.7	136.5	139.3	139.5
162.5°	125.2	126.0	126.9	127.1	128.3	130.0	130.8	132.4	135.6	138.0	138.2
165°	127.4	128.1	128.9	129.1	129.6	130.4	130.8	132.0	134.3	136.0	136.1
167.5°	129.5	129.8	130.2	130.3	130.7	131.3	131.7	132.4	133.9	135.1	135.2
170°	130.8	131.2	131.5	131.6	131.6	131.7	131.7	132.4	133.9	135.1	135.1
172.5°	131.5	131.6	131.7	131.7	131.7	131.7	131.7	132.3	133.5	134.4	134.3
175°	132.5	132.5	132.5	132.5	132.2	131.9	131.7	132.0	132.8	133.4	133.4
177.5°	132.5	132.5	132.5	132.5	132.3	132.0	131.9	132.1	132.8	133.2	133.1
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



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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°	3.4	3.4	3.4	3.4	3.4	4.5	6.0	6.7	5.8	3.9	2.5
92.5°	13.5	10.8	13.5	16.2	16.9	24.0	33.4	38.1	33.5	24.2	17.1
95°	47.2	39.1	47.2	55.3	57.4	75.3	99.3	111.3	94.0	59.4	33.5
97.5°	113.0	97.6	113.0	128.5	132.4	143.8	159.0	166.5	137.6	80.0	36.8
100°	162.9	144.5	162.9	181.3	185.9	185.1	184.0	183.5	151.5	87.5	39.5
102.5°	211.9	196.1	211.9	227.7	231.7	217.2	197.9	188.3	155.8	90.9	42.3
105°	274.5	266.0	274.5	282.9	285.0	252.6	209.4	187.7	156.3	93.5	46.4
107.5°	315.4	317.5	315.4	313.4	312.8	267.6	207.3	177.1	149.4	94.0	52.4
110°	331.0	339.8	331.0	322.2	319.9	269.3	201.9	168.2	143.2	93.2	55.8



TEST NUMBER: P934174

CATALOG NUMBER: SQ4-FA-025U-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°	332.4	346.0	332.4	318.8	315.4	263.6	194.6	160.1	137.8	93.2	59.9
115°	323.6	342.4	323.6	304.7	300.0	250.1	183.6	150.4	131.7	94.1	66.0
117.5°	304.9	325.8	304.9	284.0	278.7	233.7	173.8	143.8	127.8	95.9	71.9
120°	289.8	310.1	289.8	269.5	264.4	223.3	168.5	141.0	126.5	97.2	75.4
122.5°	275.1	295.2	275.1	255.0	250.1	213.0	163.7	139.0	125.7	99.3	79.5
125°	254.2	272.7	254.2	235.8	231.1	199.7	157.7	136.8	125.2	102.1	84.8
127.5°	235.4	250.9	235.4	219.9	216.0	189.0	152.9	134.9	124.9	104.9	89.9
130°	224.3	238.7	224.3	209.9	206.4	182.3	150.2	134.2	125.1	106.9	93.2
132.5°	214.3	227.2	214.3	201.4	198.2	176.6	147.9	133.6	125.2	108.5	96.0
135°	200.5	211.6	200.5	189.3	186.6	168.5	144.5	132.5	125.1	110.3	99.2
137.5°	189.4	198.6	189.4	180.4	178.0	162.8	142.4	132.3	125.8	113.0	103.3
140°	181.8	190.3	181.8	173.3	171.2	158.1	140.5	131.7	126.0	114.6	106.0
142.5°	175.6	182.8	175.6	168.3	166.4	154.9	139.4	131.7	126.5	116.0	108.1
145°	166.1	171.7	166.1	160.6	159.2	149.7	137.1	130.8	126.5	117.7	111.2
147.5°	158.9	163.5	158.9	154.3	153.2	145.7	135.8	130.8	127.3	120.3	115.1
150°	154.3	158.1	154.3	150.6	149.7	143.4	135.0	130.8	127.8	121.7	117.1
152.5°	150.4	153.3	150.4	147.7	147.0	141.5	134.4	130.8	128.0	122.5	118.5
155°	146.0	147.9	146.0	144.1	143.7	139.4	133.6	130.8	128.7	124.5	121.4
157.5°	142.4	143.8	142.4	141.1	140.7	137.5	133.0	130.8	129.4	126.5	124.3
160°	140.3	141.0	140.3	139.5	139.3	136.5	132.7	130.8	129.6	127.3	125.7
162.5°	138.9	139.6	138.9	138.2	138.0	135.6	132.4	130.8	130.0	128.3	127.1
165°	136.9	137.6	136.9	136.1	136.0	134.3	132.0	130.8	130.4	129.6	129.1
167.5°	135.4	135.8	135.4	135.2	135.1	133.9	132.4	131.7	131.3	130.7	130.3
170°	135.1	135.1	135.1	135.1	135.1	133.9	132.4	131.7	131.7	131.6	131.6
172.5°	134.0	133.7	134.0	134.3	134.4	133.5	132.3	131.7	131.7	131.7	131.7
175°	133.4	133.4	133.4	133.4	133.4	132.8	132.0	131.7	131.9	132.2	132.5
177.5°	132.8	132.5	132.8	133.1	133.2	132.8	132.1	131.9	132.0	132.3	132.5
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



TEST NUMBER: P934174

CATALOG NUMBER: SQ4-FA-025U-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°	2.3	1.6	0.9	1.6	2.3	2.5	3.9	5.8	6.7	6.0	4.5
92.5°	15.6	9.6	3.6	9.6	15.6	17.1	24.2	33.5	38.1	33.4	24.0
95°	30.7	19.6	8.5	19.6	30.7	33.5	59.4	94.0	111.3	99.3	75.3
97.5°	34.3	24.5	14.7	24.5	34.3	36.8	80.0	137.6	166.5	159.0	143.8
100°	37.3	28.4	19.5	28.4	37.3	39.5	87.5	151.5	183.5	184.0	185.1
102.5°	40.2	31.9	23.6	31.9	40.2	42.3	90.9	155.8	188.3	197.9	217.2
105°	44.6	37.7	30.6	37.7	44.6	46.4	93.5	156.3	187.7	209.4	252.6
107.5°	50.8	44.2	37.7	44.2	50.8	52.4	94.0	149.4	177.1	207.3	267.6
110°	54.3	48.4	42.5	48.4	54.3	55.8	93.2	143.2	168.2	201.9	269.3



TEST NUMBER: P934174

CATALOG NUMBER: SQ4-FA-025U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	58.4	52.8	47.2	52.8	58.4	59.9	93.2	137.8	160.1	194.6	263.6
115°	64.6	59.5	54.3	59.5	64.6	66.0	94.1	131.7	150.4	183.6	250.1
117.5°	70.8	66.1	61.4	66.1	70.8	71.9	95.9	127.8	143.8	173.8	233.7
120°	74.3	69.9	65.4	69.9	74.3	75.4	97.2	126.5	141.0	168.5	223.3
122.5°	78.3	73.9	69.4	73.9	78.3	79.5	99.3	125.7	139.0	163.7	213.0
125°	83.7	79.7	75.6	79.7	83.7	84.8	102.1	125.2	136.8	157.7	199.7
127.5°	88.8	84.7	80.5	84.7	88.8	89.9	104.9	124.9	134.9	152.9	189.0
130°	92.1	87.6	83.2	87.6	92.1	93.2	106.9	125.1	134.2	150.2	182.3
132.5°	94.9	90.5	86.0	90.5	94.9	96.0	108.5	125.2	133.6	147.9	176.6
135°	98.2	94.1	90.1	94.1	98.2	99.2	110.3	125.1	132.5	144.5	168.5
137.5°	102.3	98.3	94.3	98.3	102.3	103.3	113.0	125.8	132.3	142.4	162.8
140°	105.1	101.4	97.8	101.4	105.1	106.0	114.6	126.0	131.7	140.5	158.1
142.5°	107.2	103.8	100.4	103.8	107.2	108.1	116.0	126.5	131.7	139.4	154.9
145°	110.5	107.4	104.5	107.4	110.5	111.2	117.7	126.5	130.8	137.1	149.7
147.5°	114.4	111.4	108.6	111.4	114.4	115.1	120.3	127.3	130.8	135.8	145.7
150°	116.5	113.8	111.3	113.8	116.5	117.1	121.7	127.8	130.8	135.0	143.4
152.5°	117.9	116.0	114.0	116.0	117.9	118.5	122.5	128.0	130.8	134.4	141.5
155°	121.0	119.5	118.1	119.5	121.0	121.4	124.5	128.7	130.8	133.6	139.4
157.5°	124.0	122.5	121.1	122.5	124.0	124.3	126.5	129.4	130.8	133.0	137.5
160°	125.4	124.2	123.2	124.2	125.4	125.7	127.3	129.6	130.8	132.7	136.5
162.5°	126.9	126.0	125.2	126.0	126.9	127.1	128.3	130.0	130.8	132.4	135.6
165°	128.9	128.1	127.4	128.1	128.9	129.1	129.6	130.4	130.8	132.0	134.3
167.5°	130.2	129.8	129.5	129.8	130.2	130.3	130.7	131.3	131.7	132.4	133.9
170°	131.5	131.2	130.8	131.2	131.5	131.6	131.6	131.7	131.7	132.4	133.9
172.5°	131.7	131.6	131.5	131.6	131.7	131.7	131.7	131.7	131.7	132.3	133.5
175°	132.5	132.5	132.5	132.5	132.5	132.5	132.2	131.9	131.7	132.0	132.8
177.5°	132.5	132.5	132.5	132.5	132.5	132.5	132.3	132.0	131.9	132.1	132.8
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



TEST NUMBER: P934174
 CATALOG NUMBER: SQ4-FA-025U-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°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	6.0	6.7	5.8
92.5°	16.9	16.2	13.5	10.8	13.5	16.2	16.9	24.0	33.4	38.1	33.5
95°	57.4	55.3	47.2	39.1	47.2	55.3	57.4	75.3	99.3	111.3	94.0
97.5°	132.4	128.5	113.0	97.6	113.0	128.5	132.4	143.8	159.0	166.5	137.6
100°	185.9	181.3	162.9	144.5	162.9	181.3	185.9	185.1	184.0	183.5	151.5
102.5°	231.7	227.7	211.9	196.1	211.9	227.7	231.7	217.2	197.9	188.3	155.8
105°	285.0	282.9	274.5	266.0	274.5	282.9	285.0	252.6	209.4	187.7	156.3
107.5°	312.8	313.4	315.4	317.5	315.4	313.4	312.8	267.6	207.3	177.1	149.4
110°	319.9	322.2	331.0	339.8	331.0	322.2	319.9	269.3	201.9	168.2	143.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	315.4	318.8	332.4	346.0	332.4	318.8	315.4	263.6	194.6	160.1	137.8
115°	300.0	304.7	323.6	342.4	323.6	304.7	300.0	250.1	183.6	150.4	131.7
117.5°	278.7	284.0	304.9	325.8	304.9	284.0	278.7	233.7	173.8	143.8	127.8
120°	264.4	269.5	289.8	310.1	289.8	269.5	264.4	223.3	168.5	141.0	126.5
122.5°	250.1	255.0	275.1	295.2	275.1	255.0	250.1	213.0	163.7	139.0	125.7
125°	231.1	235.8	254.2	272.7	254.2	235.8	231.1	199.7	157.7	136.8	125.2
127.5°	216.0	219.9	235.4	250.9	235.4	219.9	216.0	189.0	152.9	134.9	124.9
130°	206.4	209.9	224.3	238.7	224.3	209.9	206.4	182.3	150.2	134.2	125.1
132.5°	198.2	201.4	214.3	227.2	214.3	201.4	198.2	176.6	147.9	133.6	125.2
135°	186.6	189.3	200.5	211.6	200.5	189.3	186.6	168.5	144.5	132.5	125.1
137.5°	178.0	180.4	189.4	198.6	189.4	180.4	178.0	162.8	142.4	132.3	125.8
140°	171.2	173.3	181.8	190.3	181.8	173.3	171.2	158.1	140.5	131.7	126.0
142.5°	166.4	168.3	175.6	182.8	175.6	168.3	166.4	154.9	139.4	131.7	126.5
145°	159.2	160.6	166.1	171.7	166.1	160.6	159.2	149.7	137.1	130.8	126.5
147.5°	153.2	154.3	158.9	163.5	158.9	154.3	153.2	145.7	135.8	130.8	127.3
150°	149.7	150.6	154.3	158.1	154.3	150.6	149.7	143.4	135.0	130.8	127.8
152.5°	147.0	147.7	150.4	153.3	150.4	147.7	147.0	141.5	134.4	130.8	128.0
155°	143.7	144.1	146.0	147.9	146.0	144.1	143.7	139.4	133.6	130.8	128.7
157.5°	140.7	141.1	142.4	143.8	142.4	141.1	140.7	137.5	133.0	130.8	129.4
160°	139.3	139.5	140.3	141.0	140.3	139.5	139.3	136.5	132.7	130.8	129.6
162.5°	138.0	138.2	138.9	139.6	138.9	138.2	138.0	135.6	132.4	130.8	130.0
165°	136.0	136.1	136.9	137.6	136.9	136.1	136.0	134.3	132.0	130.8	130.4
167.5°	135.1	135.2	135.4	135.8	135.4	135.2	135.1	133.9	132.4	131.7	131.3
170°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	133.9	132.4	131.7	131.7
172.5°	134.4	134.3	134.0	133.7	134.0	134.3	134.4	133.5	132.3	131.7	131.7
175°	133.4	133.4	133.4	133.4	133.4	133.4	133.4	132.8	132.0	131.7	131.9
177.5°	133.2	133.1	132.8	132.5	132.8	133.1	133.2	132.8	132.1	131.9	132.0
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



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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°	3.9	2.5	2.3	1.6	0.9
92.5°	24.2	17.1	15.6	9.6	3.6
95°	59.4	33.5	30.7	19.6	8.5
97.5°	80.0	36.8	34.3	24.5	14.7
100°	87.5	39.5	37.3	28.4	19.5
102.5°	90.9	42.3	40.2	31.9	23.6
105°	93.5	46.4	44.6	37.7	30.6
107.5°	94.0	52.4	50.8	44.2	37.7
110°	93.2	55.8	54.3	48.4	42.5



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CATALOG NUMBER: SQ4-FA-025U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	93.2	59.9	58.4	52.8	47.2
115°	94.1	66.0	64.6	59.5	54.3
117.5°	95.9	71.9	70.8	66.1	61.4
120°	97.2	75.4	74.3	69.9	65.4
122.5°	99.3	79.5	78.3	73.9	69.4
125°	102.1	84.8	83.7	79.7	75.6
127.5°	104.9	89.9	88.8	84.7	80.5
130°	106.9	93.2	92.1	87.6	83.2
132.5°	108.5	96.0	94.9	90.5	86.0
135°	110.3	99.2	98.2	94.1	90.1
137.5°	113.0	103.3	102.3	98.3	94.3
140°	114.6	106.0	105.1	101.4	97.8
142.5°	116.0	108.1	107.2	103.8	100.4
145°	117.7	111.2	110.5	107.4	104.5
147.5°	120.3	115.1	114.4	111.4	108.6
150°	121.7	117.1	116.5	113.8	111.3
152.5°	122.5	118.5	117.9	116.0	114.0
155°	124.5	121.4	121.0	119.5	118.1
157.5°	126.5	124.3	124.0	122.5	121.1
160°	127.3	125.7	125.4	124.2	123.2
162.5°	128.3	127.1	126.9	126.0	125.2
165°	129.6	129.1	128.9	128.1	127.4
167.5°	130.7	130.3	130.2	129.8	129.5
170°	131.6	131.6	131.5	131.2	130.8
172.5°	131.7	131.7	131.7	131.6	131.5
175°	132.2	132.5	132.5	132.5	132.5
177.5°	132.3	132.5	132.5	132.5	132.5
180°	132.5	132.5	132.5	132.5	132.5



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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	16.75	18.01	17.37	18.64	19.35	19.55	20.81	20.16	21.43	22.14
	3H	17.26	18.39	17.89	19.03	19.77	20.91	22.05	21.54	22.68	23.43
	4H	17.47	18.54	18.12	19.18	19.94	21.37	22.44	22.02	23.09	23.85
	6H	17.61	18.59	18.27	19.25	20.03	21.67	22.65	22.33	23.31	24.09
	8H	17.62	18.56	18.29	19.24	20.02	21.75	22.69	22.42	23.37	24.15
	12H	17.60	18.50	18.28	19.17	19.98	21.80	22.69	22.48	23.37	24.17
4H	2H	17.82	18.89	18.48	19.54	20.30	20.01	21.07	20.66	21.72	22.48
	3H	18.89	19.78	19.55	20.46	21.24	21.54	22.43	22.20	23.12	23.90
	4H	19.18	19.99	19.86	20.68	21.49	22.08	22.88	22.76	23.58	24.39
	6H	19.33	20.03	20.03	20.74	21.57	22.46	23.16	23.16	23.87	24.70
	8H	19.34	20.00	20.05	20.71	21.54	22.57	23.22	23.27	23.94	24.77
	12H	19.33	19.92	20.05	20.66	21.49	22.64	23.23	23.37	23.97	24.80
8H	4H	19.66	20.31	20.37	21.03	21.86	22.23	22.89	22.94	23.60	24.44
	6H	19.94	20.48	20.67	21.24	22.07	22.68	23.22	23.42	23.98	24.81
	8H	19.98	20.47	20.73	21.23	22.08	22.83	23.31	23.58	24.07	24.92
	12H	19.99	20.41	20.74	21.16	22.07	22.94	23.37	23.69	24.12	25.03
12H	4H	19.68	20.27	20.41	21.01	21.85	22.22	22.81	22.94	23.54	24.38
	6H	20.00	20.48	20.75	21.24	22.09	22.68	23.16	23.43	23.92	24.77
	8H	20.09	20.51	20.84	21.26	22.17	22.85	23.28	23.61	24.03	24.94