

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: P934574

Luminaire Tested: SQ4-FA-050U-125D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934574
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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

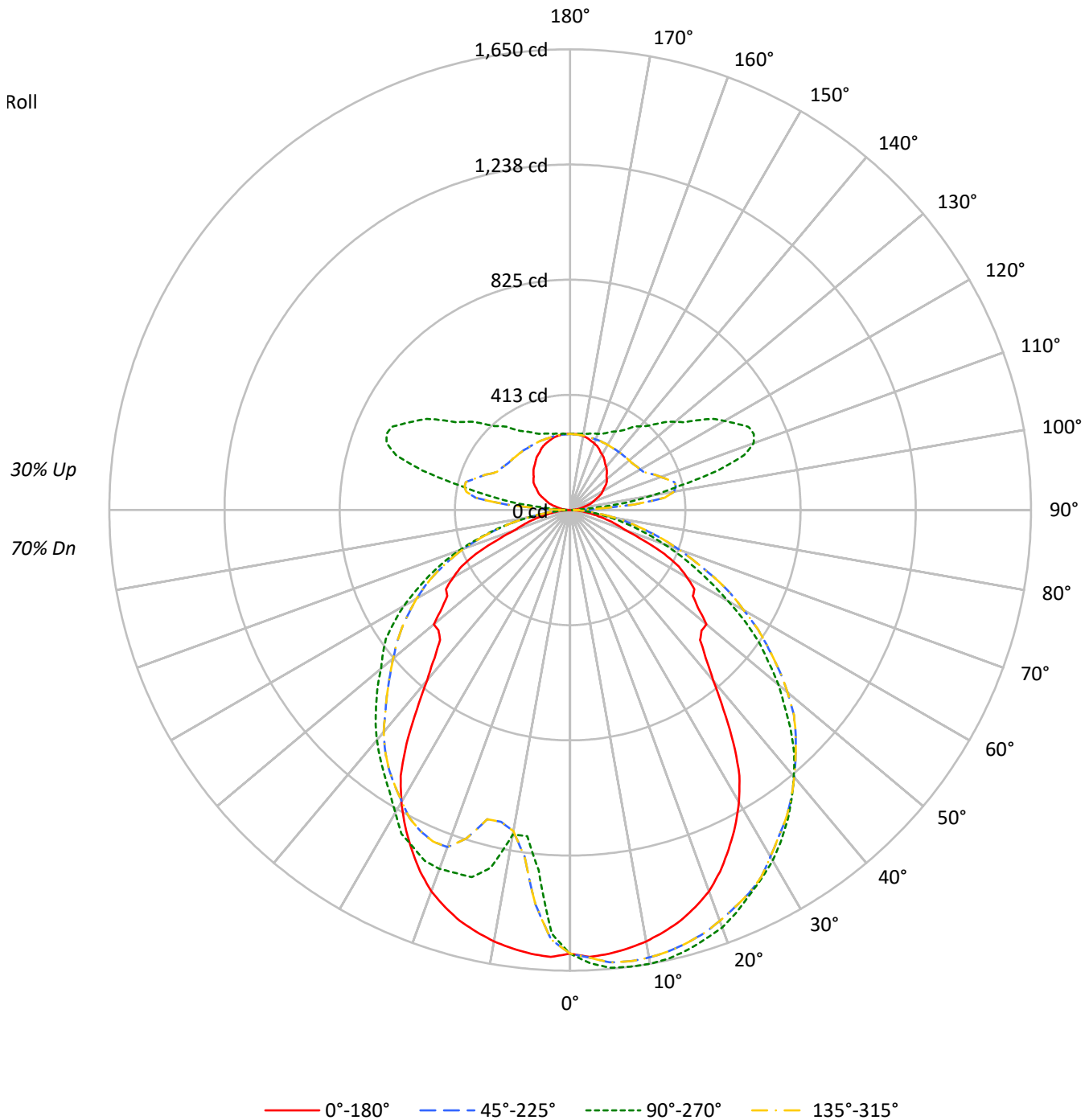
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5887.4 lumens
Efficiency: N/A
Efficacy: 105.1 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





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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°	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	2.4
10°-20°	407.1	6.9
20°-30°	629.3	10.7
30°-40°	751.3	12.8
40°-50°	755.7	12.8
50°-60°	657.5	11.2
60°-70°	466.2	7.9
70°-80°	246.6	4.2
80°-90°	62.5	1.1
90°-100°	132.9	2.3
100°-110°	349.5	5.9
110°-120°	362.4	6.2
120°-130°	290.7	4.9
130°-140°	228.1	3.9
140°-150°	175.1	3.0
150°-160°	126.1	2.1
160°-170°	77.1	1.3
170°-180°	26.1	0.4
0°-30°	1179.8	20.0
0°-40°	1931.1	32.8
0°-60°	3344.3	56.8
0°-90°	4119.6	70.0
90°-120°	844.8	14.3
90°-150°	1538.5	26.1
90°-180°	1768.0	30.0
0°-180°	5887.4	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°	2	7	2	7	2	3
95°	18	80	18	80	18	20
105°	63	547	63	547	63	67
115°	112	705	112	705	112	110
125°	156	561	156	561	156	138
135°	185	435	185	435	185	143
145°	215	353	215	353	215	135
155°	243	304	243	304	243	112
165°	262	283	262	283	262	74
175°	273	275	273	275	273	26
180°	273	273	273	273	273	



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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°	1.9	3.3	4.8	5.2	8.1	12.0	13.9	12.3	9.2	6.9	6.9
92.5°	7.3	19.7	32.2	35.3	49.6	68.7	78.3	68.6	49.3	34.8	33.4
95°	17.6	40.3	63.1	68.8	122.2	193.3	228.9	204.2	155.0	118.0	113.8
97.5°	30.4	50.4	70.5	75.6	164.5	283.3	342.6	327.1	295.9	272.5	264.5
100°	40.2	58.4	76.7	81.3	180.0	311.7	377.6	378.7	381.0	382.7	373.2
102.5°	48.7	65.7	82.7	86.9	187.1	320.7	387.4	407.3	447.0	476.8	468.6
105°	63.0	77.3	91.7	95.4	192.3	321.7	386.4	430.9	519.8	586.6	582.3
107.5°	77.6	91.0	104.4	107.8	193.3	307.4	364.4	426.5	550.6	643.7	644.8
110°	87.5	99.5	111.7	114.7	191.9	294.7	346.1	415.5	554.3	658.4	662.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	97.1	108.7	120.2	123.2	191.9	283.6	329.4	400.5	542.5	649.0	656.1
115°	111.8	122.5	133.1	135.8	193.7	270.8	309.5	377.8	514.7	617.3	627.0
117.5°	126.3	136.0	145.6	148.0	197.3	262.9	295.8	357.5	480.9	573.6	584.3
120°	134.7	143.9	152.9	155.2	200.2	260.3	290.3	346.7	459.5	544.2	554.6
122.5°	143.0	152.2	161.3	163.7	204.4	258.9	286.0	336.8	438.5	514.7	525.0
125°	155.6	163.9	172.3	174.4	210.1	257.7	281.5	324.7	411.0	475.7	485.2
127.5°	165.8	174.3	182.8	184.9	215.8	257.1	277.7	314.7	388.8	444.4	452.3
130°	171.3	180.4	189.5	191.8	220.0	257.4	276.2	309.2	375.2	424.6	432.0
132.5°	177.0	186.1	195.2	197.5	223.3	257.7	274.9	304.4	363.5	407.8	414.4
135°	185.4	193.7	202.0	204.1	227.0	257.4	272.7	297.4	346.9	384.0	389.7
137.5°	194.0	202.2	210.5	212.5	232.5	259.0	272.3	293.2	335.0	366.4	371.1
140°	201.1	208.7	216.3	218.2	235.8	259.3	271.0	289.1	325.3	352.4	356.7
142.5°	206.6	213.7	220.6	222.4	238.6	260.2	271.0	286.9	318.6	342.4	346.1
145°	215.1	221.1	227.2	228.7	242.2	260.3	269.2	282.2	308.1	327.6	330.4
147.5°	223.5	229.5	235.3	236.8	247.7	262.0	269.2	279.5	299.9	315.2	317.5
150°	228.9	234.3	239.7	241.0	250.4	262.9	269.2	277.9	295.1	308.0	310.0
152.5°	234.6	238.7	242.8	243.8	252.3	263.6	269.2	276.6	291.4	302.4	303.8
155°	243.0	246.1	249.1	249.8	256.3	264.9	269.2	275.1	286.8	295.6	296.6
157.5°	249.3	252.2	255.1	255.8	260.3	266.2	269.2	273.8	282.9	289.8	290.5
160°	253.5	255.7	258.1	258.6	262.1	266.8	269.2	273.1	281.0	286.8	287.2
162.5°	257.7	259.4	261.1	261.5	264.1	267.6	269.2	272.5	279.1	284.1	284.4
165°	262.3	263.8	265.4	265.8	266.9	268.4	269.2	271.6	276.3	279.8	280.2
167.5°	266.5	267.2	267.9	268.1	269.1	270.4	271.0	272.6	275.7	278.0	278.2
170°	269.2	270.0	270.7	270.8	270.9	271.0	271.0	272.6	275.7	278.0	278.0
172.5°	270.7	270.8	271.0	271.0	271.0	271.0	271.0	272.3	274.7	276.5	276.3
175°	272.7	272.7	272.7	272.7	272.2	271.4	271.0	271.8	273.4	274.6	274.6
177.5°	272.7	272.7	272.7	272.7	272.3	271.7	271.5	272.1	273.3	274.2	274.0
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7



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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°	6.9	6.9	6.9	6.9	6.9	9.2	12.3	13.9	12.0	8.1	5.2
92.5°	27.9	22.3	27.9	33.4	34.8	49.3	68.6	78.3	68.7	49.6	35.3
95°	97.1	80.4	97.1	113.8	118.0	155.0	204.2	228.9	193.3	122.2	68.8
97.5°	232.7	200.8	232.7	264.5	272.5	295.9	327.1	342.6	283.3	164.5	75.6
100°	335.2	297.2	335.2	373.2	382.7	381.0	378.7	377.6	311.7	180.0	81.3
102.5°	436.1	403.6	436.1	468.6	476.8	447.0	407.3	387.4	320.7	187.1	86.9
105°	564.8	547.3	564.8	582.3	586.6	519.8	430.9	386.4	321.7	192.3	95.4
107.5°	649.0	653.2	649.0	644.8	643.7	550.6	426.5	364.4	307.4	193.3	107.8
110°	681.1	699.3	681.1	662.9	658.4	554.3	415.5	346.1	294.7	191.9	114.7



TEST NUMBER: P934574

CATALOG NUMBER: SQ4-FA-050U-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°	684.0	712.0	684.0	656.1	649.0	542.5	400.5	329.4	283.6	191.9	123.2
115°	665.8	704.6	665.8	627.0	617.3	514.7	377.8	309.5	270.8	193.7	135.8
117.5°	627.4	670.4	627.4	584.3	573.6	480.9	357.5	295.8	262.9	197.3	148.0
120°	596.4	638.2	596.4	554.6	544.2	459.5	346.7	290.3	260.3	200.2	155.2
122.5°	566.3	607.5	566.3	525.0	514.7	438.5	336.8	286.0	258.9	204.4	163.7
125°	523.1	561.1	523.1	485.2	475.7	411.0	324.7	281.5	257.7	210.1	174.4
127.5°	484.4	516.5	484.4	452.3	444.4	388.8	314.7	277.7	257.1	215.8	184.9
130°	461.7	491.2	461.7	432.0	424.6	375.2	309.2	276.2	257.4	220.0	191.8
132.5°	440.9	467.4	440.9	414.4	407.8	363.5	304.4	274.9	257.7	223.3	197.5
135°	412.6	435.4	412.6	389.7	384.0	346.9	297.4	272.7	257.4	227.0	204.1
137.5°	389.7	408.5	389.7	371.1	366.4	335.0	293.2	272.3	259.0	232.5	212.5
140°	374.2	391.7	374.2	356.7	352.4	325.3	289.1	271.0	259.3	235.8	218.2
142.5°	361.2	376.3	361.2	346.1	342.4	318.6	286.9	271.0	260.2	238.6	222.4
145°	341.9	353.2	341.9	330.4	327.6	308.1	282.2	269.2	260.3	242.2	228.7
147.5°	327.0	336.4	327.0	317.5	315.2	299.9	279.5	269.2	262.0	247.7	236.8
150°	317.6	325.3	317.6	310.0	308.0	295.1	277.9	269.2	262.9	250.4	241.0
152.5°	309.6	315.3	309.6	303.8	302.4	291.4	276.6	269.2	263.6	252.3	243.8
155°	300.4	304.2	300.4	296.6	295.6	286.8	275.1	269.2	264.9	256.3	249.8
157.5°	293.1	295.8	293.1	290.5	289.8	282.9	273.8	269.2	266.2	260.3	255.8
160°	288.8	290.3	288.8	287.2	286.8	281.0	273.1	269.2	266.8	262.1	258.6
162.5°	285.9	287.4	285.9	284.4	284.1	279.1	272.5	269.2	267.6	264.1	261.5
165°	281.8	283.4	281.8	280.2	279.8	276.3	271.6	269.2	268.4	266.9	265.8
167.5°	278.8	279.5	278.8	278.2	278.0	275.7	272.6	271.0	270.4	269.1	268.1
170°	278.0	278.0	278.0	278.0	278.0	275.7	272.6	271.0	271.0	270.9	270.8
172.5°	275.8	275.3	275.8	276.3	276.5	274.7	272.3	271.0	271.0	271.0	271.0
175°	274.6	274.6	274.6	274.6	274.6	273.4	271.8	271.0	271.4	272.2	272.7
177.5°	273.4	272.7	273.4	274.0	274.2	273.3	272.1	271.5	271.7	272.3	272.7
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7



TEST NUMBER: P934574

CATALOG NUMBER: SQ4-FA-050U-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°	4.8	3.3	1.9	3.3	4.8	5.2	8.1	12.0	13.9	12.3	9.2
92.5°	32.2	19.7	7.3	19.7	32.2	35.3	49.6	68.7	78.3	68.6	49.3
95°	63.1	40.3	17.6	40.3	63.1	68.8	122.2	193.3	228.9	204.2	155.0
97.5°	70.5	50.4	30.4	50.4	70.5	75.6	164.5	283.3	342.6	327.1	295.9
100°	76.7	58.4	40.2	58.4	76.7	81.3	180.0	311.7	377.6	378.7	381.0
102.5°	82.7	65.7	48.7	65.7	82.7	86.9	187.1	320.7	387.4	407.3	447.0
105°	91.7	77.3	63.0	77.3	91.7	95.4	192.3	321.7	386.4	430.9	519.8
107.5°	104.4	91.0	77.6	91.0	104.4	107.8	193.3	307.4	364.4	426.5	550.6
110°	111.7	99.5	87.5	99.5	111.7	114.7	191.9	294.7	346.1	415.5	554.3



TEST NUMBER: P934574

CATALOG NUMBER: SQ4-FA-050U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	120.2	108.7	97.1	108.7	120.2	123.2	191.9	283.6	329.4	400.5	542.5
115°	133.1	122.5	111.8	122.5	133.1	135.8	193.7	270.8	309.5	377.8	514.7
117.5°	145.6	136.0	126.3	136.0	145.6	148.0	197.3	262.9	295.8	357.5	480.9
120°	152.9	143.9	134.7	143.9	152.9	155.2	200.2	260.3	290.3	346.7	459.5
122.5°	161.3	152.2	143.0	152.2	161.3	163.7	204.4	258.9	286.0	336.8	438.5
125°	172.3	163.9	155.6	163.9	172.3	174.4	210.1	257.7	281.5	324.7	411.0
127.5°	182.8	174.3	165.8	174.3	182.8	184.9	215.8	257.1	277.7	314.7	388.8
130°	189.5	180.4	171.3	180.4	189.5	191.8	220.0	257.4	276.2	309.2	375.2
132.5°	195.2	186.1	177.0	186.1	195.2	197.5	223.3	257.7	274.9	304.4	363.5
135°	202.0	193.7	185.4	193.7	202.0	204.1	227.0	257.4	272.7	297.4	346.9
137.5°	210.5	202.2	194.0	202.2	210.5	212.5	232.5	259.0	272.3	293.2	335.0
140°	216.3	208.7	201.1	208.7	216.3	218.2	235.8	259.3	271.0	289.1	325.3
142.5°	220.6	213.7	206.6	213.7	220.6	222.4	238.6	260.2	271.0	286.9	318.6
145°	227.2	221.1	215.1	221.1	227.2	228.7	242.2	260.3	269.2	282.2	308.1
147.5°	235.3	229.5	223.5	229.5	235.3	236.8	247.7	262.0	269.2	279.5	299.9
150°	239.7	234.3	228.9	234.3	239.7	241.0	250.4	262.9	269.2	277.9	295.1
152.5°	242.8	238.7	234.6	238.7	242.8	243.8	252.3	263.6	269.2	276.6	291.4
155°	249.1	246.1	243.0	246.1	249.1	249.8	256.3	264.9	269.2	275.1	286.8
157.5°	255.1	252.2	249.3	252.2	255.1	255.8	260.3	266.2	269.2	273.8	282.9
160°	258.1	255.7	253.5	255.7	258.1	258.6	262.1	266.8	269.2	273.1	281.0
162.5°	261.1	259.4	257.7	259.4	261.1	261.5	264.1	267.6	269.2	272.5	279.1
165°	265.4	263.8	262.3	263.8	265.4	265.8	266.9	268.4	269.2	271.6	276.3
167.5°	267.9	267.2	266.5	267.2	267.9	268.1	269.1	270.4	271.0	272.6	275.7
170°	270.7	270.0	269.2	270.0	270.7	270.8	270.9	271.0	271.0	272.6	275.7
172.5°	271.0	270.8	270.7	270.8	271.0	271.0	271.0	271.0	271.0	272.3	274.7
175°	272.7	272.7	272.7	272.7	272.7	272.7	272.2	271.4	271.0	271.8	273.4
177.5°	272.7	272.7	272.7	272.7	272.7	272.7	272.3	271.7	271.5	272.1	273.3
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7



TEST NUMBER: P934574

CATALOG NUMBER: SQ4-FA-050U-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°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	9.2	12.3	13.9	12.0
92.5°	34.8	33.4	27.9	22.3	27.9	33.4	34.8	49.3	68.6	78.3	68.7
95°	118.0	113.8	97.1	80.4	97.1	113.8	118.0	155.0	204.2	228.9	193.3
97.5°	272.5	264.5	232.7	200.8	232.7	264.5	272.5	295.9	327.1	342.6	283.3
100°	382.7	373.2	335.2	297.2	335.2	373.2	382.7	381.0	378.7	377.6	311.7
102.5°	476.8	468.6	436.1	403.6	436.1	468.6	476.8	447.0	407.3	387.4	320.7
105°	586.6	582.3	564.8	547.3	564.8	582.3	586.6	519.8	430.9	386.4	321.7
107.5°	643.7	644.8	649.0	653.2	649.0	644.8	643.7	550.6	426.5	364.4	307.4
110°	658.4	662.9	681.1	699.3	681.1	662.9	658.4	554.3	415.5	346.1	294.7



TEST NUMBER: P934574

CATALOG NUMBER: SQ4-FA-050U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	649.0	656.1	684.0	712.0	684.0	656.1	649.0	542.5	400.5	329.4	283.6
115°	617.3	627.0	665.8	704.6	665.8	627.0	617.3	514.7	377.8	309.5	270.8
117.5°	573.6	584.3	627.4	670.4	627.4	584.3	573.6	480.9	357.5	295.8	262.9
120°	544.2	554.6	596.4	638.2	596.4	554.6	544.2	459.5	346.7	290.3	260.3
122.5°	514.7	525.0	566.3	607.5	566.3	525.0	514.7	438.5	336.8	286.0	258.9
125°	475.7	485.2	523.1	561.1	523.1	485.2	475.7	411.0	324.7	281.5	257.7
127.5°	444.4	452.3	484.4	516.5	484.4	452.3	444.4	388.8	314.7	277.7	257.1
130°	424.6	432.0	461.7	491.2	461.7	432.0	424.6	375.2	309.2	276.2	257.4
132.5°	407.8	414.4	440.9	467.4	440.9	414.4	407.8	363.5	304.4	274.9	257.7
135°	384.0	389.7	412.6	435.4	412.6	389.7	384.0	346.9	297.4	272.7	257.4
137.5°	366.4	371.1	389.7	408.5	389.7	371.1	366.4	335.0	293.2	272.3	259.0
140°	352.4	356.7	374.2	391.7	374.2	356.7	352.4	325.3	289.1	271.0	259.3
142.5°	342.4	346.1	361.2	376.3	361.2	346.1	342.4	318.6	286.9	271.0	260.2
145°	327.6	330.4	341.9	353.2	341.9	330.4	327.6	308.1	282.2	269.2	260.3
147.5°	315.2	317.5	327.0	336.4	327.0	317.5	315.2	299.9	279.5	269.2	262.0
150°	308.0	310.0	317.6	325.3	317.6	310.0	308.0	295.1	277.9	269.2	262.9
152.5°	302.4	303.8	309.6	315.3	309.6	303.8	302.4	291.4	276.6	269.2	263.6
155°	295.6	296.6	300.4	304.2	300.4	296.6	295.6	286.8	275.1	269.2	264.9
157.5°	289.8	290.5	293.1	295.8	293.1	290.5	289.8	282.9	273.8	269.2	266.2
160°	286.8	287.2	288.8	290.3	288.8	287.2	286.8	281.0	273.1	269.2	266.8
162.5°	284.1	284.4	285.9	287.4	285.9	284.4	284.1	279.1	272.5	269.2	267.6
165°	279.8	280.2	281.8	283.4	281.8	280.2	279.8	276.3	271.6	269.2	268.4
167.5°	278.0	278.2	278.8	279.5	278.8	278.2	278.0	275.7	272.6	271.0	270.4
170°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	275.7	272.6	271.0	271.0
172.5°	276.5	276.3	275.8	275.3	275.8	276.3	276.5	274.7	272.3	271.0	271.0
175°	274.6	274.6	274.6	274.6	274.6	274.6	274.6	273.4	271.8	271.0	271.4
177.5°	274.2	274.0	273.4	272.7	273.4	274.0	274.2	273.3	272.1	271.5	271.7
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7



TEST NUMBER: P934574

CATALOG NUMBER: SQ4-FA-050U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1568.9	1576.4	1580.9	1586.9	1602.0
5°	1508.8	1537.3	1546.4	1568.9	1595.9
7.5°	1376.6	1463.7	1487.8	1541.8	1583.9
10°	1248.8	1336.0	1378.1	1505.8	1568.9
12.5°	1184.1	1235.3	1263.8	1442.6	1547.9
15°	1143.7	1179.7	1200.8	1358.6	1523.8
17.5°	1112.0	1137.6	1152.6	1275.9	1490.8
20°	1092.5	1104.6	1118.1	1215.8	1453.2
22.5°	1079.0	1071.5	1082.0	1173.7	1402.1
25°	1070.0	1041.4	1053.4	1140.6	1341.9
27.5°	1077.5	1014.4	1018.9	1110.5	1278.9
30°	1079.0	981.3	982.8	1079.0	1208.2
32.5°	1068.4	946.8	948.3	1039.9	1128.6
35°	1043.0	906.2	904.7	994.8	1020.4
37.5°	1008.3	862.6	862.6	945.3	901.7
40°	966.3	819.0	823.5	880.6	796.4
42.5°	915.2	772.5	778.4	794.9	718.3
45°	859.6	727.4	731.9	671.8	658.2
47.5°	798.0	680.7	682.3	557.6	638.6
50°	724.3	632.7	626.7	477.9	637.1
52.5°	659.7	580.0	562.0	432.8	578.5
55°	596.6	524.5	485.4	398.3	536.5
57.5°	541.0	452.3	414.8	357.7	527.5
60°	489.9	381.7	353.2	314.1	483.9
62.5°	447.8	329.1	323.1	284.0	438.8
65°	402.7	293.0	291.5	258.5	372.7
67.5°	359.2	269.0	267.5	234.4	284.0
70°	312.6	243.5	240.5	208.9	210.4
72.5°	264.4	214.9	211.9	187.8	174.3
75°	216.4	181.9	180.4	163.8	141.3
77.5°	169.8	144.3	147.2	132.2	103.7
80°	121.7	105.2	108.2	94.7	78.1
82.5°	81.2	69.1	72.1	60.1	52.6
85°	45.1	39.1	40.6	31.5	24.1
87.5°	21.0	18.0	18.0	12.0	7.5
90°	8.1	5.2	4.8	3.3	1.9
92.5°	49.6	35.3	32.2	19.7	7.3
95°	122.2	68.8	63.1	40.3	17.6
97.5°	164.5	75.6	70.5	50.4	30.4
100°	180.0	81.3	76.7	58.4	40.2
102.5°	187.1	86.9	82.7	65.7	48.7
105°	192.3	95.4	91.7	77.3	63.0
107.5°	193.3	107.8	104.4	91.0	77.6
110°	191.9	114.7	111.7	99.5	87.5



TEST NUMBER: P934574

CATALOG NUMBER: SQ4-FA-050U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	191.9	123.2	120.2	108.7	97.1
115°	193.7	135.8	133.1	122.5	111.8
117.5°	197.3	148.0	145.6	136.0	126.3
120°	200.2	155.2	152.9	143.9	134.7
122.5°	204.4	163.7	161.3	152.2	143.0
125°	210.1	174.4	172.3	163.9	155.6
127.5°	215.8	184.9	182.8	174.3	165.8
130°	220.0	191.8	189.5	180.4	171.3
132.5°	223.3	197.5	195.2	186.1	177.0
135°	227.0	204.1	202.0	193.7	185.4
137.5°	232.5	212.5	210.5	202.2	194.0
140°	235.8	218.2	216.3	208.7	201.1
142.5°	238.6	222.4	220.6	213.7	206.6
145°	242.2	228.7	227.2	221.1	215.1
147.5°	247.7	236.8	235.3	229.5	223.5
150°	250.4	241.0	239.7	234.3	228.9
152.5°	252.3	243.8	242.8	238.7	234.6
155°	256.3	249.8	249.1	246.1	243.0
157.5°	260.3	255.8	255.1	252.2	249.3
160°	262.1	258.6	258.1	255.7	253.5
162.5°	264.1	261.5	261.1	259.4	257.7
165°	266.9	265.8	265.4	263.8	262.3
167.5°	269.1	268.1	267.9	267.2	266.5
170°	270.9	270.8	270.7	270.0	269.2
172.5°	271.0	271.0	271.0	270.8	270.7
175°	272.2	272.7	272.7	272.7	272.7
177.5°	272.3	272.7	272.7	272.7	272.7
180°	272.7	272.7	272.7	272.7	272.7



TEST NUMBER: P934574
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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	15.81	16.88	16.57	17.67	18.62	18.61	19.68	19.37	20.47	21.42
	3H	16.30	17.27	17.08	18.06	19.05	19.96	20.92	20.74	21.72	22.70
	4H	16.50	17.41	17.30	18.22	19.21	20.41	21.32	21.20	22.12	23.12
	6H	16.63	17.47	17.44	18.29	19.30	20.69	21.53	21.50	22.35	23.36
	8H	16.64	17.44	17.46	18.27	19.28	20.77	21.57	21.59	22.40	23.41
	12H	16.62	17.38	17.44	18.21	19.25	20.81	21.57	21.64	22.40	23.44
4H	2H	16.86	17.77	17.66	18.58	19.57	19.04	19.95	19.84	20.76	21.75
	3H	17.91	18.66	18.72	19.50	20.52	20.56	21.32	21.37	22.16	23.17
	4H	18.19	18.88	19.02	19.72	20.76	21.09	21.78	21.91	22.62	23.66
	6H	18.33	18.93	19.17	19.79	20.83	21.46	22.06	22.30	22.92	23.96
	8H	18.34	18.90	19.19	19.75	20.81	21.57	22.12	22.41	22.98	24.04
	12H	18.32	18.82	19.18	19.70	20.76	21.63	22.13	22.49	23.01	24.07
8H	4H	18.66	19.21	19.50	20.07	21.13	21.23	21.79	22.08	22.65	23.70
	6H	18.93	19.39	19.80	20.29	21.35	21.67	22.13	22.54	23.03	24.09
	8H	18.97	19.38	19.86	20.28	21.35	21.82	22.23	22.70	23.12	24.20
	12H	18.97	19.33	19.85	20.21	21.34	21.92	22.28	22.81	23.17	24.30
12H	4H	18.67	19.17	19.54	20.05	21.12	21.21	21.71	22.07	22.59	23.65
	6H	18.99	19.40	19.87	20.29	21.37	21.67	22.08	22.55	22.97	24.05
	8H	19.06	19.43	19.95	20.31	21.44	21.83	22.20	22.72	23.08	24.21