

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: P934133

Luminaire Tested: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934133
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-92765-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

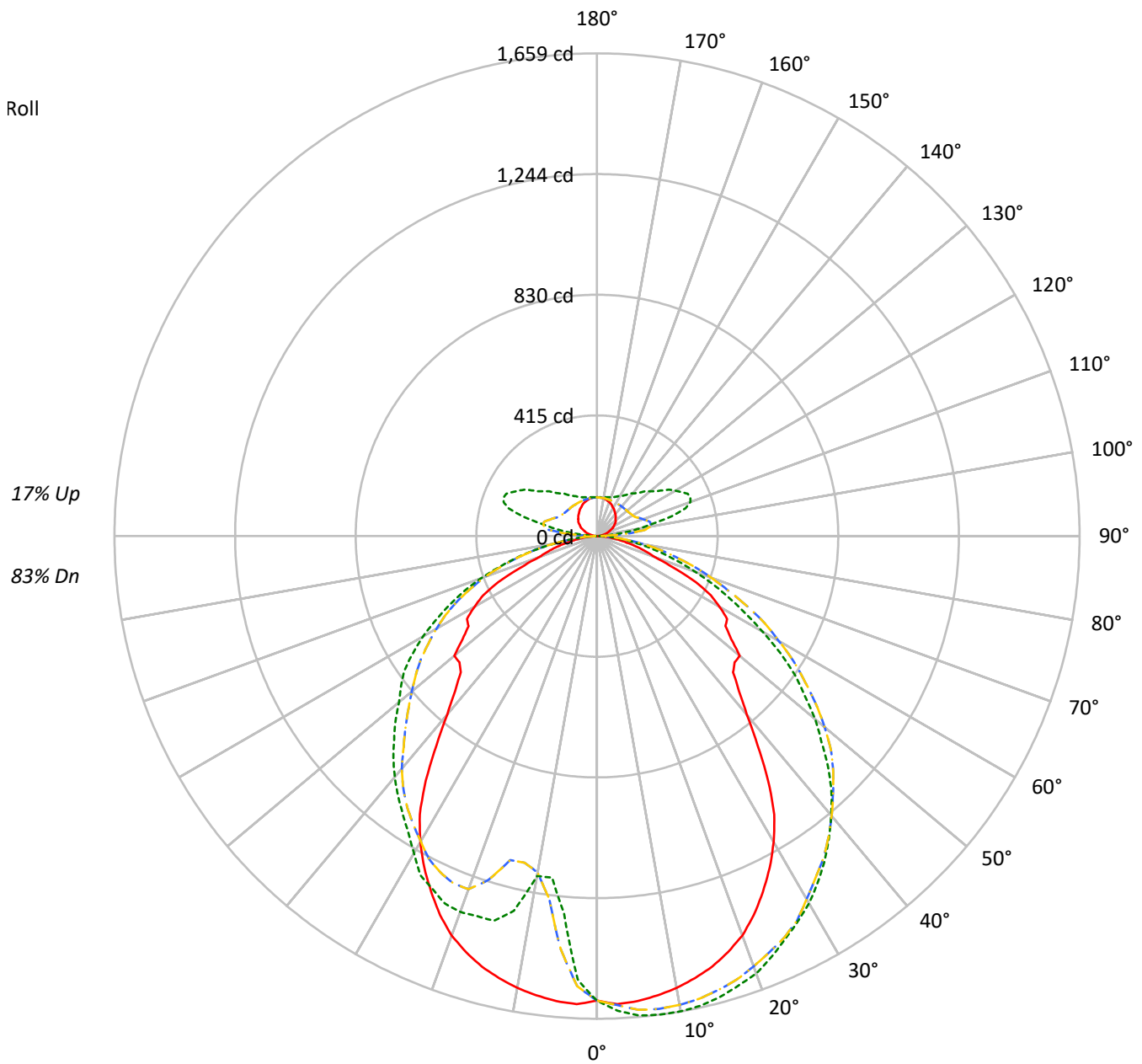
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5004.0 lumens
Efficiency: N/A
Efficacy: 100.9 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
RCR																				
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83		
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	70		
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	59		
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	50		
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	43		
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	37		
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	32		
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	29		
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	26		
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	23		
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14816	14816	14816	14816
5°	14910	14956	14910	11760
10°	14795	14733	14795	10533
15°	14616	14413	14616	12036
20°	14295	14036	14295	12060
25°	13652	13484	13652	11805
30°	12828	13026	12828	11244
35°	11419	12447	11419	10628
40°	9499	11765	9499	10161
45°	8470	10967	8470	9625
50°	8979	10014	8979	9087
55°	8424	8989	8424	8777
60°	8652	7635	8652	8039
65°	7806	6311	7806	7056
70°	5369	5031	5369	5913
75°	4657	3719	4657	4452
80°	3679	2457	3679	2676
85°	2004	1301	2004	1105

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13008 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	2.9
10°-20°	409.2	8.2
20°-30°	632.6	12.6
30°-40°	755.2	15.1
40°-50°	759.6	15.2
50°-60°	660.9	13.2
60°-70°	468.6	9.4
70°-80°	247.9	5.0
80°-90°	62.3	1.2
90°-100°	64.9	1.3
100°-110°	170.7	3.4
110°-120°	177.0	3.5
120°-130°	142.0	2.8
130°-140°	111.4	2.2
140°-150°	85.5	1.7
150°-160°	61.6	1.2
160°-170°	37.7	0.8
170°-180°	12.7	0.3
0°-30°	1185.9	23.7
0°-40°	1941.1	38.8
0°-60°	3361.7	67.2
0°-90°	4140.5	82.7
90°-120°	412.7	8.2
90°-150°	751.6	15.0
90°-180°	864.0	17.3
0°-180°	5004.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1597	1597	1597	1597	1597	
5°	1604	1654	1604	1301	1604	152
15°	1532	1639	1532	1369	1532	431
25°	1349	1529	1349	1338	1349	619
35°	1026	1364	1026	1165	1026	635
45°	662	1124	662	986	662	530
55°	539	829	539	810	539	496
65°	375	500	375	559	375	358
75°	142	237	142	284	142	149
85°	24	60	24	51	24	33
90°	1	3	1	3	1	2
95°	9	39	9	39	9	10
105°	31	267	31	267	31	33
115°	55	344	55	344	55	54
125°	76	274	76	274	76	67
135°	91	213	91	213	91	70
145°	105	172	105	172	105	66
155°	119	149	119	149	119	55
165°	128	138	128	138	128	36
175°	133	134	133	134	133	13
180°	133	133	133	133	133	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1610.3	1610.3	1619.4	1622.4	1622.4	1617.9	1613.3	1617.9	1631.4	1636.0	1634.5
5°	1604.2	1616.4	1633.0	1636.0	1639.0	1637.5	1634.5	1637.5	1652.6	1655.6	1657.1
7.5°	1592.2	1614.8	1636.0	1640.5	1645.0	1640.5	1639.0	1642.1	1657.1	1660.2	1660.2
10°	1577.1	1608.8	1633.0	1636.0	1640.5	1636.0	1636.0	1642.1	1657.1	1660.2	1661.7
12.5°	1555.9	1599.8	1622.4	1625.4	1631.4	1629.9	1628.4	1634.5	1649.6	1652.6	1652.6
15°	1531.7	1583.2	1604.2	1607.3	1617.9	1614.8	1614.8	1620.9	1637.5	1642.1	1640.5
17.5°	1498.5	1562.0	1586.1	1590.6	1598.2	1596.7	1598.2	1604.2	1619.4	1622.4	1623.9
20°	1460.8	1533.3	1562.0	1566.5	1574.0	1574.0	1574.0	1581.6	1596.7	1602.8	1602.8
22.5°	1409.4	1503.1	1533.3	1536.3	1545.3	1545.3	1548.3	1559.0	1572.5	1574.0	1574.0
25°	1348.9	1469.8	1495.5	1504.6	1513.6	1518.2	1522.7	1528.7	1533.3	1531.7	1533.3
27.5°	1285.6	1427.5	1460.8	1466.8	1478.9	1483.4	1489.4	1490.9	1492.5	1497.0	1494.0
30°	1214.5	1368.6	1418.5	1424.5	1444.2	1447.1	1441.1	1444.2	1451.7	1454.7	1457.7
32.5°	1134.4	1281.0	1374.6	1388.2	1406.4	1397.3	1395.8	1400.3	1412.4	1412.4	1415.4
35°	1025.7	1213.0	1333.8	1346.0	1359.5	1348.9	1355.0	1356.5	1364.1	1368.6	1367.1
37.5°	906.4	1154.1	1291.5	1300.6	1311.2	1297.6	1306.7	1311.2	1317.2	1314.2	1314.2
40°	800.6	1062.0	1241.7	1247.8	1256.8	1246.3	1255.3	1258.3	1261.4	1258.3	1256.8
42.5°	722.0	960.7	1188.9	1196.4	1190.3	1197.9	1200.9	1207.0	1202.4	1196.4	1196.4
45°	661.6	933.6	1131.4	1140.5	1131.4	1143.5	1148.1	1148.1	1134.4	1131.4	1130.0
47.5°	642.0	879.1	1074.0	1074.0	1069.5	1084.6	1092.1	1081.6	1068.0	1063.5	1063.5
50°	640.5	818.7	995.4	989.5	1010.6	1028.7	1021.2	1010.6	1000.0	983.4	983.4
52.5°	581.5	744.7	894.3	916.9	950.2	960.7	948.7	938.1	919.9	912.4	906.4
55°	539.3	667.7	802.1	847.5	882.2	895.7	873.2	862.5	835.4	830.9	827.8
57.5°	530.2	555.9	717.6	775.0	817.2	815.8	802.1	782.5	759.8	755.3	753.8
60°	486.4	401.9	626.9	694.9	738.6	734.2	722.0	703.9	682.8	679.7	676.8
62.5°	441.1	291.5	524.1	601.2	663.1	661.6	651.1	623.9	608.8	601.2	595.2
65°	374.6	244.8	373.1	500.0	589.1	592.2	569.5	549.9	533.3	524.1	522.6
67.5°	285.5	199.4	252.3	416.9	518.2	515.1	486.4	477.4	456.2	451.7	442.7
70°	211.5	132.9	175.2	338.4	448.6	441.1	418.5	407.8	388.2	377.7	371.6
72.5°	175.2	107.3	128.4	262.9	377.7	368.6	348.9	336.9	320.3	311.2	305.1
75°	142.0	113.3	98.2	194.9	306.6	300.6	282.5	270.4	256.8	244.8	246.2
77.5°	104.3	105.8	78.6	143.5	243.2	234.1	223.6	208.4	202.4	190.3	190.3
80°	78.6	83.1	58.9	98.2	175.2	175.2	166.2	155.6	145.1	139.0	139.0
82.5°	52.8	52.8	43.8	61.9	119.3	114.8	108.7	105.8	99.7	96.7	96.7
85°	24.2	30.2	27.2	37.8	65.0	68.0	68.0	65.0	63.5	60.4	61.9
87.5°	7.6	13.6	16.6	21.2	33.2	34.7	36.2	36.2	36.2	37.8	37.8
90°	0.9	1.6	2.3	2.5	3.9	5.8	6.8	6.1	4.6	3.4	3.4
92.5°	3.6	9.6	15.7	17.2	24.3	33.7	38.3	33.6	24.1	17.0	16.2
95°	8.6	19.7	30.9	33.7	59.7	94.4	111.8	99.8	75.7	57.7	55.6
97.5°	14.8	24.6	34.5	37.0	80.4	138.4	167.4	159.8	144.5	133.1	129.2
100°	19.6	28.6	37.5	39.7	87.9	152.3	184.4	185.0	186.1	186.9	182.3
102.5°	23.7	32.0	40.4	42.5	91.4	156.7	189.2	199.0	218.3	232.9	228.9
105°	30.8	37.8	44.8	46.6	94.0	157.1	188.7	210.5	254.0	286.5	284.4
107.5°	37.9	44.5	51.1	52.7	94.4	150.1	178.0	208.3	268.9	314.5	315.0
110°	42.8	48.6	54.5	56.1	93.7	144.0	169.1	203.0	270.7	321.6	323.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.5	53.1	58.7	60.2	93.7	138.5	160.9	195.7	265.0	317.1	320.5
115°	54.6	59.8	65.0	66.3	94.6	132.4	151.2	184.6	251.5	301.5	306.3
117.5°	61.7	66.4	71.1	72.3	96.4	128.4	144.5	174.7	234.9	280.2	285.5
120°	65.8	70.2	74.7	75.8	97.7	127.1	141.7	169.3	224.5	265.8	270.9
122.5°	69.8	74.3	78.7	79.9	99.8	126.4	139.7	164.5	214.1	251.4	256.4
125°	76.0	80.1	84.2	85.2	102.7	125.9	137.5	158.5	200.8	232.3	237.0
127.5°	81.0	85.2	89.3	90.3	105.4	125.5	135.6	153.7	189.9	217.1	221.0
130°	83.6	88.1	92.6	93.7	107.5	125.8	134.9	151.0	183.3	207.4	211.0
132.5°	86.5	91.0	95.4	96.5	109.1	125.9	134.3	148.7	177.5	199.2	202.4
135°	90.6	94.6	98.7	99.7	110.9	125.8	133.2	145.2	169.4	187.5	190.3
137.5°	94.8	98.8	102.8	103.8	113.5	126.5	133.0	143.2	163.6	179.0	181.3
140°	98.3	101.9	105.7	106.6	115.1	126.7	132.4	141.2	158.9	172.1	174.2
142.5°	101.0	104.3	107.7	108.6	116.6	127.1	132.4	140.1	155.7	167.3	169.2
145°	105.1	108.0	111.0	111.8	118.4	127.1	131.5	137.8	150.5	160.0	161.5
147.5°	109.2	112.0	115.0	115.7	121.0	128.0	131.5	136.5	146.5	154.0	155.1
150°	111.8	114.4	117.1	117.7	122.3	128.4	131.5	135.7	144.2	150.5	151.4
152.5°	114.6	116.6	118.5	119.1	123.2	128.7	131.5	135.1	142.3	147.7	148.4
155°	118.7	120.1	121.7	122.0	125.1	129.3	131.5	134.3	140.1	144.4	144.9
157.5°	121.8	123.2	124.6	125.0	127.1	130.1	131.5	133.7	138.2	141.5	141.8
160°	123.8	124.9	126.0	126.3	128.0	130.3	131.5	133.4	137.2	140.1	140.2
162.5°	125.9	126.7	127.6	127.7	129.0	130.7	131.5	133.1	136.3	138.7	138.9
165°	128.1	128.8	129.6	129.8	130.3	131.1	131.5	132.6	135.0	136.7	136.8
167.5°	130.1	130.5	130.9	130.9	131.4	132.0	132.4	133.1	134.6	135.8	135.9
170°	131.5	131.8	132.2	132.3	132.3	132.4	132.4	133.1	134.6	135.8	135.8
172.5°	132.2	132.3	132.4	132.4	132.4	132.4	132.4	133.0	134.2	135.1	135.0
175°	133.2	133.2	133.2	133.2	132.9	132.6	132.4	132.7	133.5	134.1	134.1
177.5°	133.2	133.2	133.2	133.2	133.0	132.7	132.6	132.8	133.4	133.9	133.8
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1637.5	1633.0	1637.5	1634.5	1636.0	1631.4	1617.9	1613.3	1617.9	1622.4	1622.4
5°	1657.1	1654.1	1657.1	1657.1	1655.6	1652.6	1637.5	1634.5	1637.5	1639.0	1636.0
7.5°	1663.1	1658.7	1663.1	1660.2	1660.2	1657.1	1642.1	1639.0	1640.5	1645.0	1640.5
10°	1663.1	1658.7	1663.1	1661.7	1660.2	1657.1	1642.1	1636.0	1636.0	1640.5	1636.0
12.5°	1655.6	1652.6	1655.6	1652.6	1652.6	1649.6	1634.5	1628.4	1629.9	1631.4	1625.4
15°	1643.5	1639.0	1643.5	1640.5	1642.1	1637.5	1620.9	1614.8	1614.8	1617.9	1607.3
17.5°	1625.4	1619.4	1625.4	1623.9	1622.4	1619.4	1604.2	1598.2	1596.7	1598.2	1590.6
20°	1604.2	1599.8	1604.2	1602.8	1602.8	1596.7	1581.6	1574.0	1574.0	1574.0	1566.5
22.5°	1571.0	1566.5	1571.0	1574.0	1574.0	1572.5	1559.0	1548.3	1545.3	1545.3	1536.3
25°	1533.3	1528.7	1533.3	1533.3	1531.7	1533.3	1528.7	1522.7	1518.2	1513.6	1504.6
27.5°	1497.0	1494.0	1497.0	1494.0	1497.0	1492.5	1490.9	1489.4	1483.4	1478.9	1466.8
30°	1460.8	1457.7	1460.8	1457.7	1454.7	1451.7	1444.2	1441.1	1447.1	1444.2	1424.5
32.5°	1415.4	1412.4	1415.4	1415.4	1412.4	1412.4	1400.3	1395.8	1397.3	1406.4	1388.2
35°	1368.6	1364.1	1368.6	1367.1	1368.6	1364.1	1356.5	1355.0	1348.9	1359.5	1346.0
37.5°	1314.2	1309.7	1314.2	1314.2	1314.2	1317.2	1311.2	1306.7	1297.6	1311.2	1300.6
40°	1258.3	1252.3	1258.3	1256.8	1258.3	1261.4	1258.3	1255.3	1246.3	1256.8	1247.8
42.5°	1194.9	1193.3	1194.9	1196.4	1196.4	1202.4	1207.0	1200.9	1197.9	1190.3	1196.4
45°	1126.9	1123.9	1126.9	1130.0	1131.4	1134.4	1148.1	1148.1	1143.5	1131.4	1140.5
47.5°	1054.4	1046.9	1054.4	1063.5	1063.5	1068.0	1081.6	1092.1	1084.6	1069.5	1074.0
50°	977.3	978.8	977.3	983.4	983.4	1000.0	1010.6	1021.2	1028.7	1010.6	989.5
52.5°	901.8	900.3	901.8	906.4	912.4	919.9	938.1	948.7	960.7	950.2	916.9
55°	826.3	829.3	826.3	827.8	830.9	835.4	862.5	873.2	895.7	882.2	847.5
57.5°	750.8	746.2	750.8	753.8	755.3	759.8	782.5	802.1	815.8	817.2	775.0
60°	663.1	657.1	663.1	676.8	679.7	682.8	703.9	722.0	734.2	738.6	694.9
62.5°	586.1	575.6	586.1	595.2	601.2	608.8	623.9	651.1	661.6	663.1	601.2
65°	504.5	500.0	504.5	522.6	524.1	533.3	549.9	569.5	592.2	589.1	500.0
67.5°	430.5	430.5	430.5	442.7	451.7	456.2	477.4	486.4	515.1	518.2	416.9
70°	362.6	361.1	362.6	371.6	377.7	388.2	407.8	418.5	441.1	448.6	338.4
72.5°	297.6	296.1	297.6	305.1	311.2	320.3	336.9	348.9	368.6	377.7	262.9
75°	240.2	237.2	240.2	246.2	244.8	256.8	270.4	282.5	300.6	306.6	194.9
77.5°	184.3	184.3	184.3	190.3	190.3	202.4	208.4	223.6	234.1	243.2	143.5
80°	137.5	135.9	137.5	139.0	139.0	145.1	155.6	166.2	175.2	175.2	98.2
82.5°	96.7	93.6	96.7	96.7	96.7	99.7	105.8	108.7	114.8	119.3	61.9
85°	60.4	60.4	60.4	61.9	60.4	63.5	65.0	68.0	68.0	65.0	37.8
87.5°	39.3	37.8	39.3	37.8	37.8	36.2	36.2	36.2	34.7	33.2	21.2
90°	3.4	3.4	3.4	3.4	3.4	4.6	6.1	6.8	5.8	3.9	2.5
92.5°	13.6	10.9	13.6	16.2	17.0	24.1	33.6	38.3	33.7	24.3	17.2
95°	47.5	39.3	47.5	55.6	57.7	75.7	99.8	111.8	94.4	59.7	33.7
97.5°	113.6	98.1	113.6	129.2	133.1	144.5	159.8	167.4	138.4	80.4	37.0
100°	163.8	145.2	163.8	182.3	186.9	186.1	185.0	184.4	152.3	87.9	39.7
102.5°	213.0	197.1	213.0	228.9	232.9	218.3	199.0	189.2	156.7	91.4	42.5
105°	275.9	267.3	275.9	284.4	286.5	254.0	210.5	188.7	157.1	94.0	46.6
107.5°	317.1	319.1	317.1	315.0	314.5	268.9	208.3	178.0	150.1	94.4	52.7
110°	332.7	341.6	332.7	323.8	321.6	270.7	203.0	169.1	144.0	93.7	56.1



TEST NUMBER: P934133

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	334.1	347.8	334.1	320.5	317.1	265.0	195.7	160.9	138.5	93.7	60.2
115°	325.3	344.2	325.3	306.3	301.5	251.5	184.6	151.2	132.4	94.6	66.3
117.5°	306.4	327.5	306.4	285.5	280.2	234.9	174.7	144.5	128.4	96.4	72.3
120°	291.4	311.7	291.4	270.9	265.8	224.5	169.3	141.7	127.1	97.7	75.8
122.5°	276.5	296.7	276.5	256.4	251.4	214.1	164.5	139.7	126.4	99.8	79.9
125°	255.6	274.1	255.6	237.0	232.3	200.8	158.5	137.5	125.9	102.7	85.2
127.5°	236.6	252.3	236.6	221.0	217.1	189.9	153.7	135.6	125.5	105.4	90.3
130°	225.5	239.9	225.5	211.0	207.4	183.3	151.0	134.9	125.8	107.5	93.7
132.5°	215.4	228.3	215.4	202.4	199.2	177.5	148.7	134.3	125.9	109.1	96.5
135°	201.6	212.7	201.6	190.3	187.5	169.4	145.2	133.2	125.8	110.9	99.7
137.5°	190.4	199.6	190.4	181.3	179.0	163.6	143.2	133.0	126.5	113.5	103.8
140°	182.7	191.3	182.7	174.2	172.1	158.9	141.2	132.4	126.7	115.1	106.6
142.5°	176.5	183.8	176.5	169.2	167.3	155.7	140.1	132.4	127.1	116.6	108.6
145°	167.0	172.5	167.0	161.5	160.0	150.5	137.8	131.5	127.1	118.4	111.8
147.5°	159.7	164.3	159.7	155.1	154.0	146.5	136.5	131.5	128.0	121.0	115.7
150°	155.1	158.9	155.1	151.4	150.5	144.2	135.7	131.5	128.4	122.3	117.7
152.5°	151.2	154.1	151.2	148.4	147.7	142.3	135.1	131.5	128.7	123.2	119.1
155°	146.7	148.6	146.7	144.9	144.4	140.1	134.3	131.5	129.3	125.1	122.0
157.5°	143.2	144.5	143.2	141.8	141.5	138.2	133.7	131.5	130.1	127.1	125.0
160°	141.0	141.7	141.0	140.2	140.1	137.2	133.4	131.5	130.3	128.0	126.3
162.5°	139.6	140.3	139.6	138.9	138.7	136.3	133.1	131.5	130.7	129.0	127.7
165°	137.6	138.4	137.6	136.8	136.7	135.0	132.6	131.5	131.1	130.3	129.8
167.5°	136.1	136.5	136.1	135.9	135.8	134.6	133.1	132.4	132.0	131.4	130.9
170°	135.8	135.8	135.8	135.8	135.8	134.6	133.1	132.4	132.4	132.3	132.3
172.5°	134.7	134.4	134.7	135.0	135.1	134.2	133.0	132.4	132.4	132.4	132.4
175°	134.1	134.1	134.1	134.1	134.1	133.5	132.7	132.4	132.6	132.9	133.2
177.5°	133.5	133.2	133.5	133.8	133.9	133.4	132.8	132.6	132.7	133.0	133.2
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



TEST NUMBER: P934133

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1619.4	1610.3	1610.3	1595.2	1589.1	1584.6	1577.1	1554.4	1548.3	1542.4	1551.4
5°	1633.0	1616.4	1604.2	1577.1	1554.4	1545.3	1516.7	1462.3	1426.0	1398.8	1383.7
7.5°	1636.0	1614.8	1592.2	1549.9	1495.5	1471.3	1383.7	1284.0	1256.8	1232.6	1217.5
10°	1633.0	1608.8	1577.1	1513.6	1385.3	1342.9	1255.3	1190.3	1173.7	1169.2	1173.7
12.5°	1622.4	1599.8	1555.9	1450.2	1270.4	1241.7	1190.3	1152.6	1149.6	1157.1	1197.9
15°	1604.2	1583.2	1531.7	1365.6	1207.0	1185.8	1149.6	1135.9	1152.6	1205.5	1327.9
17.5°	1586.1	1562.0	1498.5	1282.5	1158.6	1143.5	1117.8	1145.1	1238.7	1309.7	1350.4
20°	1562.0	1533.3	1460.8	1222.1	1123.9	1110.3	1098.2	1220.6	1291.5	1317.2	1339.9
22.5°	1533.3	1503.1	1409.4	1179.8	1087.7	1077.0	1084.6	1262.9	1291.5	1309.7	1329.3
25°	1495.5	1469.8	1348.9	1146.6	1058.9	1046.9	1075.5	1258.3	1274.9	1279.5	1318.8
27.5°	1460.8	1427.5	1285.6	1116.3	1024.2	1019.6	1083.1	1238.7	1250.7	1255.3	1297.6
30°	1418.5	1368.6	1214.5	1084.6	988.0	986.4	1084.6	1214.5	1211.5	1223.6	1265.9
32.5°	1374.6	1281.0	1134.4	1045.3	953.2	951.7	1074.0	1178.3	1175.2	1191.8	1223.6
35°	1333.8	1213.0	1025.7	1000.0	909.4	910.9	1048.4	1135.9	1137.5	1152.6	1172.2
37.5°	1291.5	1154.1	906.4	950.2	867.1	867.1	1013.6	1096.7	1093.6	1098.2	1125.4
40°	1241.7	1062.0	800.6	885.2	827.8	823.3	971.3	1054.4	1043.8	1042.3	1080.1
42.5°	1188.9	960.7	722.0	799.1	782.5	776.5	919.9	1003.0	983.4	988.0	1036.2
45°	1131.4	933.6	661.6	675.3	735.7	731.1	864.1	944.1	930.6	942.6	992.5
47.5°	1074.0	879.1	642.0	560.5	685.8	684.3	802.1	886.7	879.1	891.3	944.1
50°	995.4	818.7	640.5	480.4	629.9	636.0	728.1	830.9	830.9	841.4	897.3
52.5°	894.3	744.7	581.5	435.1	564.9	583.1	663.1	782.5	785.5	796.1	845.9
55°	802.1	667.7	539.3	400.3	487.9	527.2	599.8	732.7	738.6	749.3	794.6
57.5°	717.6	555.9	530.2	359.5	416.9	454.7	543.8	684.3	687.3	696.4	740.2
60°	626.9	401.9	486.4	315.7	355.0	383.6	492.5	626.9	637.5	643.5	681.2
62.5°	524.1	291.5	441.1	285.5	324.7	330.8	450.1	572.5	586.1	590.6	613.3
65°	373.1	244.8	374.6	259.8	293.0	294.6	404.8	516.6	528.7	536.3	552.9
67.5°	252.3	199.4	285.5	235.7	268.9	270.4	361.1	451.7	468.3	474.3	484.9
70°	175.2	132.9	211.5	209.9	241.7	244.8	314.2	392.8	407.8	412.4	418.5
72.5°	128.4	107.3	175.2	188.8	213.0	216.0	265.8	326.3	341.4	345.9	348.9
75°	98.2	113.3	142.0	164.7	181.3	182.8	217.5	265.8	276.4	279.5	281.0
77.5°	78.6	105.8	104.3	132.9	148.0	145.1	170.7	205.5	214.5	214.5	214.5
80°	58.9	83.1	78.6	95.2	108.7	105.8	122.4	146.6	149.5	152.5	151.0
82.5°	43.8	52.8	52.8	60.4	72.5	69.4	81.6	95.2	95.2	95.2	98.2
85°	27.2	30.2	24.2	31.7	40.8	39.3	45.3	51.3	52.8	52.8	49.8
87.5°	16.6	13.6	7.6	12.1	18.1	18.1	21.2	22.7	21.2	21.2	21.2
90°	2.3	1.6	0.9	1.6	2.3	2.5	3.9	5.8	6.8	6.1	4.6
92.5°	15.7	9.6	3.6	9.6	15.7	17.2	24.3	33.7	38.3	33.6	24.1
95°	30.9	19.7	8.6	19.7	30.9	33.7	59.7	94.4	111.8	99.8	75.7
97.5°	34.5	24.6	14.8	24.6	34.5	37.0	80.4	138.4	167.4	159.8	144.5
100°	37.5	28.6	19.6	28.6	37.5	39.7	87.9	152.3	184.4	185.0	186.1
102.5°	40.4	32.0	23.7	32.0	40.4	42.5	91.4	156.7	189.2	199.0	218.3
105°	44.8	37.8	30.8	37.8	44.8	46.6	94.0	157.1	188.7	210.5	254.0
107.5°	51.1	44.5	37.9	44.5	51.1	52.7	94.4	150.1	178.0	208.3	268.9
110°	54.5	48.6	42.8	48.6	54.5	56.1	93.7	144.0	169.1	203.0	270.7



TEST NUMBER: P934133

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	58.7	53.1	47.5	53.1	58.7	60.2	93.7	138.5	160.9	195.7	265.0
115°	65.0	59.8	54.6	59.8	65.0	66.3	94.6	132.4	151.2	184.6	251.5
117.5°	71.1	66.4	61.7	66.4	71.1	72.3	96.4	128.4	144.5	174.7	234.9
120°	74.7	70.2	65.8	70.2	74.7	75.8	97.7	127.1	141.7	169.3	224.5
122.5°	78.7	74.3	69.8	74.3	78.7	79.9	99.8	126.4	139.7	164.5	214.1
125°	84.2	80.1	76.0	80.1	84.2	85.2	102.7	125.9	137.5	158.5	200.8
127.5°	89.3	85.2	81.0	85.2	89.3	90.3	105.4	125.5	135.6	153.7	189.9
130°	92.6	88.1	83.6	88.1	92.6	93.7	107.5	125.8	134.9	151.0	183.3
132.5°	95.4	91.0	86.5	91.0	95.4	96.5	109.1	125.9	134.3	148.7	177.5
135°	98.7	94.6	90.6	94.6	98.7	99.7	110.9	125.8	133.2	145.2	169.4
137.5°	102.8	98.8	94.8	98.8	102.8	103.8	113.5	126.5	133.0	143.2	163.6
140°	105.7	101.9	98.3	101.9	105.7	106.6	115.1	126.7	132.4	141.2	158.9
142.5°	107.7	104.3	101.0	104.3	107.7	108.6	116.6	127.1	132.4	140.1	155.7
145°	111.0	108.0	105.1	108.0	111.0	111.8	118.4	127.1	131.5	137.8	150.5
147.5°	115.0	112.0	109.2	112.0	115.0	115.7	121.0	128.0	131.5	136.5	146.5
150°	117.1	114.4	111.8	114.4	117.1	117.7	122.3	128.4	131.5	135.7	144.2
152.5°	118.5	116.6	114.6	116.6	118.5	119.1	123.2	128.7	131.5	135.1	142.3
155°	121.7	120.1	118.7	120.1	121.7	122.0	125.1	129.3	131.5	134.3	140.1
157.5°	124.6	123.2	121.8	123.2	124.6	125.0	127.1	130.1	131.5	133.7	138.2
160°	126.0	124.9	123.8	124.9	126.0	126.3	128.0	130.3	131.5	133.4	137.2
162.5°	127.6	126.7	125.9	126.7	127.6	127.7	129.0	130.7	131.5	133.1	136.3
165°	129.6	128.8	128.1	128.8	129.6	129.8	130.3	131.1	131.5	132.6	135.0
167.5°	130.9	130.5	130.1	130.5	130.9	130.9	131.4	132.0	132.4	133.1	134.6
170°	132.2	131.8	131.5	131.8	132.2	132.3	132.3	132.4	132.4	133.1	134.6
172.5°	132.4	132.3	132.2	132.3	132.4	132.4	132.4	132.4	132.4	133.0	134.2
175°	133.2	133.2	133.2	133.2	133.2	133.2	132.9	132.6	132.4	132.7	133.5
177.5°	133.2	133.2	133.2	133.2	133.2	133.2	133.0	132.7	132.6	132.8	133.4
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



TEST NUMBER: P934133

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1540.8	1536.3	1542.4	1525.7	1542.4	1536.3	1540.8	1551.4	1542.4	1548.3	1554.4
5°	1352.0	1344.5	1320.3	1300.6	1320.3	1344.5	1352.0	1383.7	1398.8	1426.0	1462.3
7.5°	1208.5	1202.4	1196.4	1184.3	1196.4	1202.4	1208.5	1217.5	1232.6	1256.8	1284.0
10°	1176.7	1178.3	1187.4	1185.8	1187.4	1178.3	1176.7	1173.7	1169.2	1173.7	1190.3
12.5°	1258.3	1271.9	1321.8	1318.8	1321.8	1271.9	1258.3	1197.9	1157.1	1149.6	1152.6
15°	1352.0	1356.5	1367.1	1368.6	1367.1	1356.5	1352.0	1327.9	1205.5	1152.6	1135.9
17.5°	1361.1	1362.6	1370.1	1370.1	1370.1	1362.6	1361.1	1350.4	1309.7	1238.7	1145.1
20°	1353.5	1356.5	1371.6	1374.6	1371.6	1356.5	1353.5	1339.9	1317.2	1291.5	1220.6
22.5°	1350.4	1356.5	1368.6	1367.1	1368.6	1356.5	1350.4	1329.3	1309.7	1291.5	1262.9
25°	1335.4	1335.4	1336.9	1338.4	1336.9	1335.4	1335.4	1318.8	1279.5	1274.9	1258.3
27.5°	1303.7	1306.7	1315.7	1314.2	1315.7	1306.7	1303.7	1297.6	1255.3	1250.7	1238.7
30°	1274.9	1271.9	1264.4	1258.3	1264.4	1271.9	1274.9	1265.9	1223.6	1211.5	1214.5
32.5°	1226.6	1219.1	1211.5	1207.0	1211.5	1219.1	1226.6	1223.6	1191.8	1175.2	1178.3
35°	1169.2	1170.7	1169.2	1164.7	1169.2	1170.7	1169.2	1172.2	1152.6	1137.5	1135.9
37.5°	1128.5	1131.4	1130.0	1123.9	1130.0	1131.4	1128.5	1125.4	1098.2	1093.6	1096.7
40°	1086.1	1087.7	1086.1	1081.6	1086.1	1087.7	1086.1	1080.1	1042.3	1043.8	1054.4
42.5°	1045.3	1043.8	1039.3	1036.2	1039.3	1043.8	1045.3	1036.2	988.0	983.4	1003.0
45°	998.5	1000.0	991.0	986.4	991.0	1000.0	998.5	992.5	942.6	930.6	944.1
47.5°	951.7	951.7	944.1	939.6	944.1	951.7	951.7	944.1	891.3	879.1	886.7
50°	901.8	900.3	889.8	888.2	889.8	900.3	901.8	897.3	841.4	830.9	830.9
52.5°	844.4	844.4	845.9	849.0	845.9	844.4	844.4	845.9	796.1	785.5	782.5
55°	794.6	796.1	806.7	809.7	806.7	796.1	794.6	794.6	749.3	738.6	732.7
57.5°	743.2	743.2	750.8	750.8	750.8	743.2	743.2	740.2	696.4	687.3	684.3
60°	684.3	687.3	693.4	691.9	693.4	687.3	684.3	681.2	643.5	637.5	626.9
62.5°	622.3	625.4	626.9	623.9	626.9	625.4	622.3	613.3	590.6	586.1	572.5
65°	557.4	560.5	561.9	559.0	561.9	560.5	557.4	552.9	536.3	528.7	516.6
67.5°	490.9	489.4	487.9	494.0	487.9	489.4	490.9	484.9	474.3	468.3	451.7
70°	422.9	422.9	421.5	424.4	421.5	422.9	422.9	418.5	412.4	407.8	392.8
72.5°	350.4	348.9	355.0	350.4	355.0	348.9	350.4	348.9	345.9	341.4	326.3
75°	279.5	282.5	279.5	284.0	279.5	282.5	279.5	281.0	279.5	276.4	265.8
77.5°	213.0	216.0	213.0	213.0	213.0	216.0	213.0	214.5	214.5	214.5	205.5
80°	151.0	149.5	149.5	148.0	149.5	149.5	151.0	151.0	152.5	149.5	146.6
82.5°	96.7	95.2	95.2	98.2	95.2	95.2	96.7	98.2	95.2	95.2	95.2
85°	52.8	54.4	51.3	51.3	51.3	54.4	52.8	49.8	52.8	52.8	51.3
87.5°	19.6	18.1	18.1	18.1	18.1	18.1	19.6	21.2	21.2	21.2	22.7
90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	6.1	6.8	5.8
92.5°	17.0	16.2	13.6	10.9	13.6	16.2	17.0	24.1	33.6	38.3	33.7
95°	57.7	55.6	47.5	39.3	47.5	55.6	57.7	75.7	99.8	111.8	94.4
97.5°	133.1	129.2	113.6	98.1	113.6	129.2	133.1	144.5	159.8	167.4	138.4
100°	186.9	182.3	163.8	145.2	163.8	182.3	186.9	186.1	185.0	184.4	152.3
102.5°	232.9	228.9	213.0	197.1	213.0	228.9	232.9	218.3	199.0	189.2	156.7
105°	286.5	284.4	275.9	267.3	275.9	284.4	286.5	254.0	210.5	188.7	157.1
107.5°	314.5	315.0	317.1	319.1	317.1	315.0	314.5	268.9	208.3	178.0	150.1
110°	321.6	323.8	332.7	341.6	332.7	323.8	321.6	270.7	203.0	169.1	144.0



TEST NUMBER: P934133

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	317.1	320.5	334.1	347.8	334.1	320.5	317.1	265.0	195.7	160.9	138.5
115°	301.5	306.3	325.3	344.2	325.3	306.3	301.5	251.5	184.6	151.2	132.4
117.5°	280.2	285.5	306.4	327.5	306.4	285.5	280.2	234.9	174.7	144.5	128.4
120°	265.8	270.9	291.4	311.7	291.4	270.9	265.8	224.5	169.3	141.7	127.1
122.5°	251.4	256.4	276.5	296.7	276.5	256.4	251.4	214.1	164.5	139.7	126.4
125°	232.3	237.0	255.6	274.1	255.6	237.0	232.3	200.8	158.5	137.5	125.9
127.5°	217.1	221.0	236.6	252.3	236.6	221.0	217.1	189.9	153.7	135.6	125.5
130°	207.4	211.0	225.5	239.9	225.5	211.0	207.4	183.3	151.0	134.9	125.8
132.5°	199.2	202.4	215.4	228.3	215.4	202.4	199.2	177.5	148.7	134.3	125.9
135°	187.5	190.3	201.6	212.7	201.6	190.3	187.5	169.4	145.2	133.2	125.8
137.5°	179.0	181.3	190.4	199.6	190.4	181.3	179.0	163.6	143.2	133.0	126.5
140°	172.1	174.2	182.7	191.3	182.7	174.2	172.1	158.9	141.2	132.4	126.7
142.5°	167.3	169.2	176.5	183.8	176.5	169.2	167.3	155.7	140.1	132.4	127.1
145°	160.0	161.5	167.0	172.5	167.0	161.5	160.0	150.5	137.8	131.5	127.1
147.5°	154.0	155.1	159.7	164.3	159.7	155.1	154.0	146.5	136.5	131.5	128.0
150°	150.5	151.4	155.1	158.9	155.1	151.4	150.5	144.2	135.7	131.5	128.4
152.5°	147.7	148.4	151.2	154.1	151.2	148.4	147.7	142.3	135.1	131.5	128.7
155°	144.4	144.9	146.7	148.6	146.7	144.9	144.4	140.1	134.3	131.5	129.3
157.5°	141.5	141.8	143.2	144.5	143.2	141.8	141.5	138.2	133.7	131.5	130.1
160°	140.1	140.2	141.0	141.7	141.0	140.2	140.1	137.2	133.4	131.5	130.3
162.5°	138.7	138.9	139.6	140.3	139.6	138.9	138.7	136.3	133.1	131.5	130.7
165°	136.7	136.8	137.6	138.4	137.6	136.8	136.7	135.0	132.6	131.5	131.1
167.5°	135.8	135.9	136.1	136.5	136.1	135.9	135.8	134.6	133.1	132.4	132.0
170°	135.8	135.8	135.8	135.8	135.8	135.8	135.8	134.6	133.1	132.4	132.4
172.5°	135.1	135.0	134.7	134.4	134.7	135.0	135.1	134.2	133.0	132.4	132.4
175°	134.1	134.1	134.1	134.1	134.1	134.1	134.1	133.5	132.7	132.4	132.6
177.5°	133.9	133.8	133.5	133.2	133.5	133.8	133.9	133.4	132.8	132.6	132.7
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



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CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1577.1	1584.6	1589.1	1595.2	1610.3
5°	1516.7	1545.3	1554.4	1577.1	1604.2
7.5°	1383.7	1471.3	1495.5	1549.9	1592.2
10°	1255.3	1342.9	1385.3	1513.6	1577.1
12.5°	1190.3	1241.7	1270.4	1450.2	1555.9
15°	1149.6	1185.8	1207.0	1365.6	1531.7
17.5°	1117.8	1143.5	1158.6	1282.5	1498.5
20°	1098.2	1110.3	1123.9	1222.1	1460.8
22.5°	1084.6	1077.0	1087.7	1179.8	1409.4
25°	1075.5	1046.9	1058.9	1146.6	1348.9
27.5°	1083.1	1019.6	1024.2	1116.3	1285.6
30°	1084.6	986.4	988.0	1084.6	1214.5
32.5°	1074.0	951.7	953.2	1045.3	1134.4
35°	1048.4	910.9	909.4	1000.0	1025.7
37.5°	1013.6	867.1	867.1	950.2	906.4
40°	971.3	823.3	827.8	885.2	800.6
42.5°	919.9	776.5	782.5	799.1	722.0
45°	864.1	731.1	735.7	675.3	661.6
47.5°	802.1	684.3	685.8	560.5	642.0
50°	728.1	636.0	629.9	480.4	640.5
52.5°	663.1	583.1	564.9	435.1	581.5
55°	599.8	527.2	487.9	400.3	539.3
57.5°	543.8	454.7	416.9	359.5	530.2
60°	492.5	383.6	355.0	315.7	486.4
62.5°	450.1	330.8	324.7	285.5	441.1
65°	404.8	294.6	293.0	259.8	374.6
67.5°	361.1	270.4	268.9	235.7	285.5
70°	314.2	244.8	241.7	209.9	211.5
72.5°	265.8	216.0	213.0	188.8	175.2
75°	217.5	182.8	181.3	164.7	142.0
77.5°	170.7	145.1	148.0	132.9	104.3
80°	122.4	105.8	108.7	95.2	78.6
82.5°	81.6	69.4	72.5	60.4	52.8
85°	45.3	39.3	40.8	31.7	24.2
87.5°	21.2	18.1	18.1	12.1	7.6
90°	3.9	2.5	2.3	1.6	0.9
92.5°	24.3	17.2	15.7	9.6	3.6
95°	59.7	33.7	30.9	19.7	8.6
97.5°	80.4	37.0	34.5	24.6	14.8
100°	87.9	39.7	37.5	28.6	19.6
102.5°	91.4	42.5	40.4	32.0	23.7
105°	94.0	46.6	44.8	37.8	30.8
107.5°	94.4	52.7	51.1	44.5	37.9
110°	93.7	56.1	54.5	48.6	42.8



TEST NUMBER: P934133

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	93.7	60.2	58.7	53.1	47.5
115°	94.6	66.3	65.0	59.8	54.6
117.5°	96.4	72.3	71.1	66.4	61.7
120°	97.7	75.8	74.7	70.2	65.8
122.5°	99.8	79.9	78.7	74.3	69.8
125°	102.7	85.2	84.2	80.1	76.0
127.5°	105.4	90.3	89.3	85.2	81.0
130°	107.5	93.7	92.6	88.1	83.6
132.5°	109.1	96.5	95.4	91.0	86.5
135°	110.9	99.7	98.7	94.6	90.6
137.5°	113.5	103.8	102.8	98.8	94.8
140°	115.1	106.6	105.7	101.9	98.3
142.5°	116.6	108.6	107.7	104.3	101.0
145°	118.4	111.8	111.0	108.0	105.1
147.5°	121.0	115.7	115.0	112.0	109.2
150°	122.3	117.7	117.1	114.4	111.8
152.5°	123.2	119.1	118.5	116.6	114.6
155°	125.1	122.0	121.7	120.1	118.7
157.5°	127.1	125.0	124.6	123.2	121.8
160°	128.0	126.3	126.0	124.9	123.8
162.5°	129.0	127.7	127.6	126.7	125.9
165°	130.3	129.8	129.6	128.8	128.1
167.5°	131.4	130.9	130.9	130.5	130.1
170°	132.3	132.3	132.2	131.8	131.5
172.5°	132.4	132.4	132.4	132.3	132.2
175°	132.9	133.2	133.2	133.2	133.2
177.5°	133.0	133.2	133.2	133.2	133.2
180°	133.2	133.2	133.2	133.2	133.2



TEST NUMBER: P934133
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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	16.77	18.03	17.38	18.65	19.37	19.57	20.83	20.18	21.45	22.16
	3H	17.28	18.41	17.90	19.04	19.79	20.93	22.07	21.56	22.70	23.45
	4H	17.49	18.55	18.13	19.20	19.96	21.39	22.46	22.04	23.10	23.86
	6H	17.63	18.61	18.29	19.27	20.05	21.69	22.67	22.35	23.33	24.11
	8H	17.64	18.58	18.31	19.26	20.04	21.77	22.71	22.44	23.39	24.17
	12H	17.62	18.52	18.30	19.19	20.00	21.81	22.71	22.49	23.38	24.19
4H	2H	17.84	18.91	18.49	19.56	20.32	20.03	21.09	20.68	21.74	22.50
	3H	18.90	19.79	19.57	20.48	21.26	21.56	22.45	22.22	23.13	23.91
	4H	19.20	20.00	19.88	20.70	21.51	22.10	22.90	22.78	23.59	24.40
	6H	19.35	20.05	20.05	20.76	21.58	22.48	23.18	23.18	23.89	24.71
	8H	19.36	20.01	20.07	20.73	21.56	22.59	23.24	23.29	23.95	24.79
	12H	19.35	19.93	20.07	20.67	21.51	22.66	23.24	23.38	23.98	24.82
8H	4H	19.68	20.33	20.38	21.05	21.88	22.25	22.91	22.96	23.62	24.45
	6H	19.96	20.50	20.69	21.25	22.09	22.70	23.24	23.43	24.00	24.83
	8H	20.00	20.49	20.75	21.24	22.10	22.85	23.33	23.60	24.09	24.94
	12H	20.00	20.43	20.75	21.18	22.09	22.96	23.39	23.71	24.13	25.05
12H	4H	19.70	20.29	20.43	21.03	21.87	22.24	22.82	22.96	23.56	24.40
	6H	20.02	20.50	20.77	21.26	22.11	22.70	23.18	23.45	23.94	24.79
	8H	20.10	20.53	20.85	21.28	22.19	22.87	23.30	23.62	24.05	24.96