

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: P934182

Luminaire Tested: SQ4-FA-025U-125D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

**Test Information**

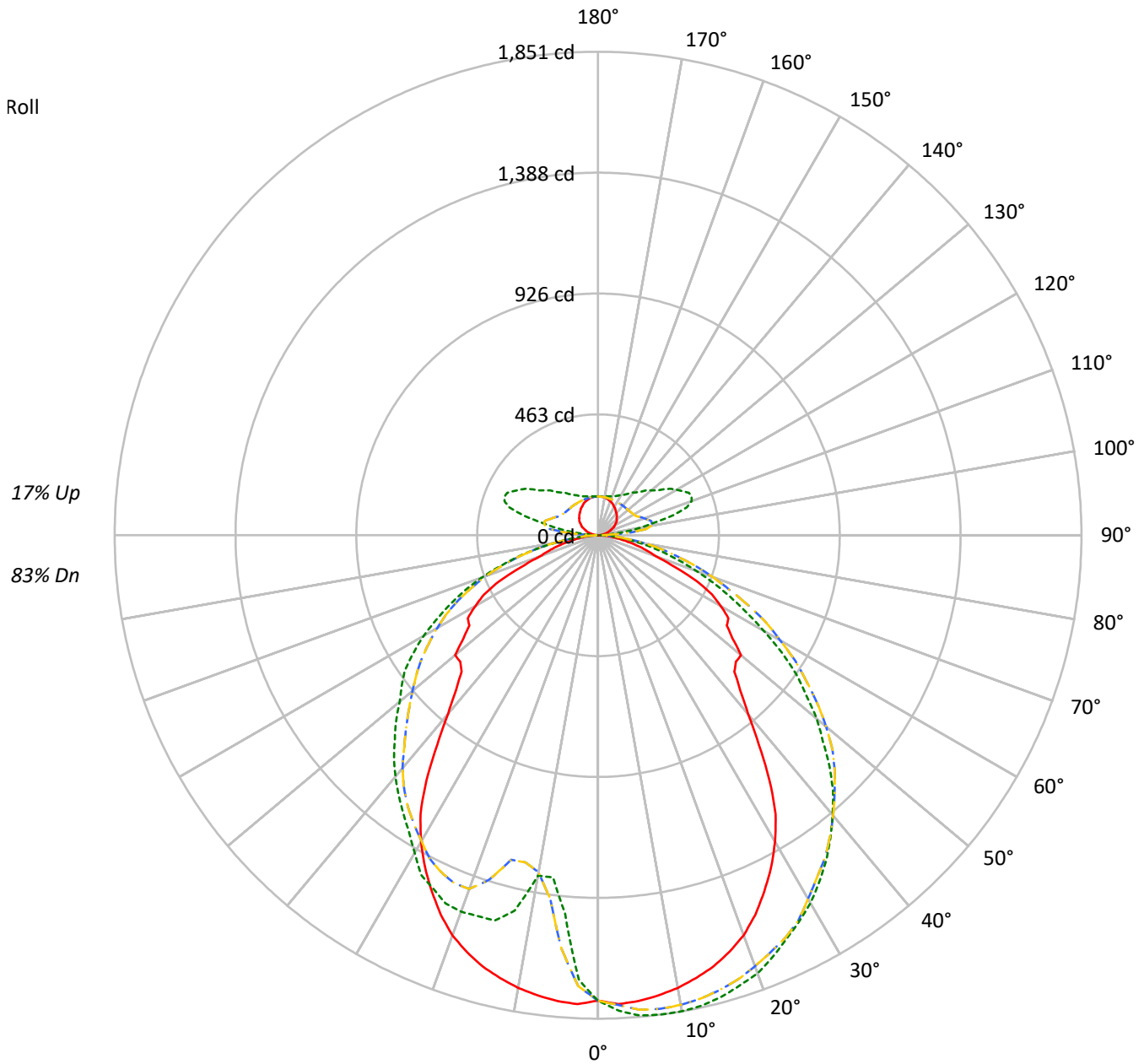
Test Method: LM-79-2019  
Report Number: P934182  
REPORT IS A COMBINATION OF REPORTS P933686 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-125D-B2750-1D-UNV-STD-W-4-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5583.5 lumens  
Efficiency: N/A  
Efficacy: 112.6 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°	16532	16532	16532	16532
5°	16637	16689	16637	13123
10°	16508	16439	16508	11753
15°	16309	16083	16309	13429
20°	15951	15661	15951	13457
25°	15233	15045	15233	13172
30°	14314	14535	14314	12547
35°	12742	13889	12742	11858
40°	10598	13127	10598	11339
45°	9451	12238	9451	10741
50°	10017	11175	10017	10140
55°	9400	10031	9400	9794
60°	9654	8520	9654	8970
65°	8711	7043	8711	7873
70°	5991	5613	5991	6598
75°	5198	4148	5198	4968
80°	4100	2743	4100	2985
85°	2236	1452	2236	1235

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 14514 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.8	2.9
10°-20°	456.6	8.2
20°-30°	705.9	12.6
30°-40°	842.6	15.1
40°-50°	847.6	15.2
50°-60°	737.5	13.2
60°-70°	522.9	9.4
70°-80°	276.6	5.0
80°-90°	69.5	1.2
90°-100°	72.5	1.3
100°-110°	190.5	3.4
110°-120°	197.5	3.5
120°-130°	158.4	2.8
130°-140°	124.3	2.2
140°-150°	95.4	1.7
150°-160°	68.7	1.2
160°-170°	42.0	0.8
170°-180°	14.2	0.3
0°-30°	1323.3	23.7
0°-40°	2165.9	38.8
0°-60°	3751.0	67.2
0°-90°	4620.0	82.7
90°-120°	460.5	8.2
90°-150°	838.6	15.0
90°-180°	964.0	17.3
0°-180°	5583.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1782	1782	1782	1782	1782	
5°	1790	1846	1790	1451	1790	170
15°	1709	1829	1709	1527	1709	481
25°	1505	1706	1505	1493	1505	691
35°	1144	1522	1144	1300	1144	708
45°	738	1254	738	1101	738	591
55°	602	925	602	904	602	553
65°	418	558	418	624	418	399
75°	158	265	158	317	158	167
85°	27	67	27	57	27	36
90°	1	4	1	4	1	2
95°	10	44	10	44	10	11
105°	34	298	34	298	34	36
115°	61	384	61	384	61	60
125°	85	306	85	306	85	75
135°	101	237	101	237	101	78
145°	117	192	117	192	117	73
155°	132	166	132	166	132	61
165°	143	154	143	154	143	40
175°	149	150	149	150	149	14
180°	149	149	149	149	149	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6
2.5°	1796.8	1796.8	1806.9	1810.3	1810.3	1805.2	1800.2	1805.2	1820.4	1825.5	1823.8
5°	1790.0	1803.6	1822.1	1825.5	1828.9	1827.2	1823.8	1827.2	1844.0	1847.4	1849.1
7.5°	1776.6	1801.9	1825.5	1830.5	1835.5	1830.5	1828.9	1832.2	1849.1	1852.5	1852.5
10°	1759.7	1795.1	1822.1	1825.5	1830.5	1825.5	1825.5	1832.2	1849.1	1852.5	1854.2
12.5°	1736.1	1785.0	1810.3	1813.6	1820.4	1818.7	1817.0	1823.8	1840.6	1844.0	1844.0
15°	1709.1	1766.5	1790.0	1793.4	1805.2	1801.9	1801.9	1808.6	1827.2	1832.2	1830.5
17.5°	1672.1	1742.9	1769.8	1774.9	1783.3	1781.6	1783.3	1790.0	1806.9	1810.3	1811.9
20°	1630.0	1710.8	1742.9	1747.9	1756.3	1756.3	1756.3	1764.8	1781.6	1788.4	1788.4
22.5°	1572.6	1677.2	1710.8	1714.2	1724.3	1724.3	1727.7	1739.5	1754.7	1756.3	1756.3
25°	1505.2	1640.0	1668.7	1678.9	1688.9	1694.0	1699.1	1705.7	1710.8	1709.1	1710.8
27.5°	1434.4	1592.8	1630.0	1636.6	1650.2	1655.3	1661.9	1663.6	1665.3	1670.4	1667.0
30°	1355.2	1527.1	1582.7	1589.5	1611.4	1614.7	1608.0	1611.4	1619.8	1623.2	1626.6
32.5°	1265.8	1429.4	1533.8	1549.0	1569.3	1559.1	1557.4	1562.5	1576.0	1576.0	1579.4
35°	1144.5	1353.5	1488.3	1501.9	1517.0	1505.2	1511.9	1513.6	1522.1	1527.1	1525.5
37.5°	1011.3	1287.7	1441.1	1451.3	1463.0	1447.9	1458.0	1463.0	1469.8	1466.4	1466.4
40°	893.3	1184.9	1385.5	1392.3	1402.4	1390.6	1400.7	1404.1	1407.4	1404.1	1402.4
42.5°	805.7	1072.0	1326.6	1334.9	1328.2	1336.6	1340.0	1346.8	1341.7	1334.9	1334.9
45°	738.2	1041.7	1262.4	1272.6	1262.4	1276.0	1281.1	1281.1	1265.8	1262.4	1260.8
47.5°	716.3	981.0	1198.4	1198.4	1193.4	1210.2	1218.6	1206.9	1191.7	1186.6	1186.6
50°	714.6	913.5	1110.7	1104.1	1127.7	1147.9	1139.4	1127.7	1115.8	1097.3	1097.3
52.5°	648.9	831.0	997.9	1023.1	1060.2	1072.0	1058.5	1046.7	1026.5	1018.1	1011.3
55°	601.8	745.0	895.0	945.6	984.3	999.5	974.3	962.4	932.2	927.1	923.7
57.5°	591.6	620.3	800.7	864.7	911.8	910.2	895.0	873.1	847.8	842.8	841.1
60°	542.7	448.4	699.5	775.4	824.2	819.2	805.7	785.4	761.8	758.5	755.2
62.5°	492.2	325.3	584.9	670.8	739.9	738.2	726.5	696.1	679.3	670.8	664.1
65°	418.0	273.1	416.3	558.0	657.4	660.7	635.4	613.5	595.0	584.9	583.2
67.5°	318.5	222.5	281.5	465.2	578.2	574.8	542.7	532.7	509.1	504.0	493.9
70°	236.0	148.3	195.5	377.6	500.6	492.2	466.9	455.1	433.2	421.4	414.6
72.5°	195.5	119.7	143.2	293.3	421.4	411.2	389.3	375.9	357.4	347.2	340.4
75°	158.5	126.4	109.6	217.4	342.1	335.5	315.2	301.7	286.5	273.1	274.7
77.5°	116.3	118.0	87.6	160.2	271.4	261.3	249.5	232.6	225.9	212.3	212.3
80°	87.6	92.7	65.7	109.6	195.5	195.5	185.5	173.6	161.8	155.1	155.1
82.5°	59.0	59.0	48.9	69.1	133.2	128.1	121.3	118.0	111.3	107.9	107.9
85°	27.0	33.7	30.4	42.1	72.5	75.9	75.9	72.5	70.8	67.4	69.1
87.5°	8.5	15.1	18.5	23.6	37.1	38.7	40.4	40.4	40.4	42.1	42.1
90°	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1	3.8	3.8
92.5°	4.0	10.8	17.5	19.2	27.1	37.5	42.7	37.4	26.9	18.9	18.1
95°	9.6	22.0	34.5	37.5	66.6	105.4	124.8	111.4	84.5	64.3	62.1
97.5°	16.5	27.5	38.4	41.2	89.7	154.4	186.8	178.3	161.3	148.5	144.1
100°	21.9	31.9	41.8	44.3	98.1	169.9	205.8	206.4	207.7	208.6	203.4
102.5°	26.5	35.8	45.1	47.4	102.0	174.8	211.2	222.0	243.6	259.9	255.4
105°	34.4	42.2	50.0	52.0	104.9	175.3	210.6	234.9	283.4	319.7	317.3
107.5°	42.3	49.6	57.0	58.8	105.4	167.5	198.6	232.5	300.1	350.9	351.5
110°	47.7	54.3	60.9	62.5	104.6	160.7	188.6	226.5	302.1	358.9	361.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	53.0	59.3	65.5	67.1	104.6	154.6	179.6	218.3	295.7	353.8	357.6
115°	61.0	66.7	72.5	74.0	105.6	147.7	168.7	206.0	280.6	336.4	341.7
117.5°	68.8	74.1	79.4	80.7	107.6	143.3	161.3	194.9	262.1	312.6	318.5
120°	73.4	78.4	83.4	84.6	109.1	141.8	158.2	188.9	250.5	296.6	302.3
122.5°	77.9	82.9	87.8	89.1	111.4	141.0	155.9	183.6	238.9	280.5	286.1
125°	84.8	89.3	93.9	95.1	114.5	140.4	153.4	176.9	224.0	259.3	264.4
127.5°	90.3	95.0	99.6	100.8	117.6	140.0	151.3	171.5	211.9	242.2	246.6
130°	93.3	98.3	103.3	104.6	119.9	140.3	150.5	168.5	204.5	231.5	235.5
132.5°	96.5	101.5	106.5	107.7	121.7	140.4	149.8	165.9	198.1	222.3	225.9
135°	101.1	105.6	110.2	111.3	123.7	140.3	148.6	162.0	189.0	209.3	212.3
137.5°	105.8	110.3	114.7	115.8	126.7	141.1	148.4	159.8	182.6	199.7	202.3
140°	109.7	113.7	117.9	118.9	128.5	141.3	147.7	157.6	177.3	192.0	194.4
142.5°	112.6	116.4	120.2	121.2	130.1	141.8	147.7	156.4	173.7	186.7	188.7
145°	117.2	120.5	123.9	124.7	132.1	141.8	146.7	153.8	167.9	178.6	180.2
147.5°	121.8	125.0	128.3	129.1	135.0	142.8	146.7	152.3	163.4	171.8	173.1
150°	124.8	127.7	130.7	131.4	136.5	143.3	146.7	151.4	160.9	167.9	168.9
152.5°	127.9	130.1	132.3	132.9	137.4	143.6	146.7	150.7	158.8	164.8	165.6
155°	132.5	134.1	135.8	136.2	139.6	144.3	146.7	149.9	156.4	161.2	161.7
157.5°	135.9	137.4	139.0	139.4	141.8	145.1	146.7	149.2	154.2	157.9	158.3
160°	138.1	139.3	140.6	140.9	142.8	145.4	146.7	148.8	153.1	156.3	156.5
162.5°	140.4	141.3	142.3	142.5	143.9	145.8	146.7	148.5	152.1	154.8	155.0
165°	142.9	143.7	144.6	144.8	145.4	146.3	146.7	148.0	150.6	152.5	152.7
167.5°	145.2	145.6	146.0	146.1	146.6	147.3	147.7	148.5	150.2	151.5	151.6
170°	146.7	147.1	147.5	147.6	147.6	147.7	147.7	148.5	150.2	151.5	151.5
172.5°	147.5	147.6	147.7	147.7	147.7	147.7	147.7	148.4	149.7	150.7	150.6
175°	148.6	148.6	148.6	148.6	148.3	147.9	147.7	148.1	149.0	149.6	149.6
177.5°	148.6	148.6	148.6	148.6	148.4	148.1	147.9	148.2	148.9	149.4	149.3
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6
2.5°	1827.2	1822.1	1827.2	1823.8	1825.5	1820.4	1805.2	1800.2	1805.2	1810.3	1810.3
5°	1849.1	1845.7	1849.1	1849.1	1847.4	1844.0	1827.2	1823.8	1827.2	1828.9	1825.5
7.5°	1855.7	1850.8	1855.7	1852.5	1852.5	1849.1	1832.2	1828.9	1830.5	1835.5	1830.5
10°	1855.7	1850.8	1855.7	1854.2	1852.5	1849.1	1832.2	1825.5	1825.5	1830.5	1825.5
12.5°	1847.4	1844.0	1847.4	1844.0	1844.0	1840.6	1823.8	1817.0	1818.7	1820.4	1813.6
15°	1833.8	1828.9	1833.8	1830.5	1832.2	1827.2	1808.6	1801.9	1801.9	1805.2	1793.4
17.5°	1813.6	1806.9	1813.6	1811.9	1810.3	1806.9	1790.0	1783.3	1781.6	1783.3	1774.9
20°	1790.0	1785.0	1790.0	1788.4	1788.4	1781.6	1764.8	1756.3	1756.3	1756.3	1747.9
22.5°	1753.0	1747.9	1753.0	1756.3	1756.3	1754.7	1739.5	1727.7	1724.3	1724.3	1714.2
25°	1710.8	1705.7	1710.8	1710.8	1709.1	1710.8	1705.7	1699.1	1694.0	1688.9	1678.9
27.5°	1670.4	1667.0	1670.4	1667.0	1670.4	1665.3	1663.6	1661.9	1655.3	1650.2	1636.6
30°	1630.0	1626.6	1630.0	1626.6	1623.2	1619.8	1611.4	1608.0	1614.7	1611.4	1589.5
32.5°	1579.4	1576.0	1579.4	1579.4	1576.0	1576.0	1562.5	1557.4	1559.1	1569.3	1549.0
35°	1527.1	1522.1	1527.1	1525.5	1527.1	1522.1	1513.6	1511.9	1505.2	1517.0	1501.9
37.5°	1466.4	1461.3	1466.4	1466.4	1466.4	1469.8	1463.0	1458.0	1447.9	1463.0	1451.3
40°	1404.1	1397.3	1404.1	1402.4	1404.1	1407.4	1404.1	1400.7	1390.6	1402.4	1392.3
42.5°	1333.2	1331.6	1333.2	1334.9	1334.9	1341.7	1346.8	1340.0	1336.6	1328.2	1334.9
45°	1257.4	1254.1	1257.4	1260.8	1262.4	1265.8	1281.1	1281.1	1276.0	1262.4	1272.6
47.5°	1176.5	1168.1	1176.5	1186.6	1186.6	1191.7	1206.9	1218.6	1210.2	1193.4	1198.4
50°	1090.5	1092.2	1090.5	1097.3	1097.3	1115.8	1127.7	1139.4	1147.9	1127.7	1104.1
52.5°	1006.3	1004.6	1006.3	1011.3	1018.1	1026.5	1046.7	1058.5	1072.0	1060.2	1023.1
55°	922.0	925.4	922.0	923.7	927.1	932.2	962.4	974.3	999.5	984.3	945.6
57.5°	837.7	832.7	837.7	841.1	842.8	847.8	873.1	895.0	910.2	911.8	864.7
60°	739.9	733.3	739.9	755.2	758.5	761.8	785.4	805.7	819.2	824.2	775.4
62.5°	654.0	642.2	654.0	664.1	670.8	679.3	696.1	726.5	738.2	739.9	670.8
65°	562.9	558.0	562.9	583.2	584.9	595.0	613.5	635.4	660.7	657.4	558.0
67.5°	480.4	480.4	480.4	493.9	504.0	509.1	532.7	542.7	574.8	578.2	465.2
70°	404.6	402.9	404.6	414.6	421.4	433.2	455.1	466.9	492.2	500.6	377.6
72.5°	332.1	330.4	332.1	340.4	347.2	357.4	375.9	389.3	411.2	421.4	293.3
75°	268.0	264.6	268.0	274.7	273.1	286.5	301.7	315.2	335.5	342.1	217.4
77.5°	205.7	205.7	205.7	212.3	212.3	225.9	232.6	249.5	261.3	271.4	160.2
80°	153.4	151.7	153.4	155.1	155.1	161.8	173.6	185.5	195.5	195.5	109.6
82.5°	107.9	104.5	107.9	107.9	107.9	111.3	118.0	121.3	128.1	133.2	69.1
85°	67.4	67.4	67.4	69.1	67.4	70.8	72.5	75.9	75.9	72.5	42.1
87.5°	43.8	42.1	43.8	42.1	42.1	40.4	40.4	40.4	38.7	37.1	23.6
90°	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5	4.4	2.8
92.5°	15.1	12.2	15.1	18.1	18.9	26.9	37.4	42.7	37.5	27.1	19.2
95°	53.0	43.8	53.0	62.1	64.3	84.5	111.4	124.8	105.4	66.6	37.5
97.5°	126.8	109.5	126.8	144.1	148.5	161.3	178.3	186.8	154.4	89.7	41.2
100°	182.8	162.0	182.8	203.4	208.6	207.7	206.4	205.8	169.9	98.1	44.3
102.5°	237.6	219.9	237.6	255.4	259.9	243.6	222.0	211.2	174.8	102.0	47.4
105°	307.9	298.3	307.9	317.3	319.7	283.4	234.9	210.6	175.3	104.9	52.0
107.5°	353.8	356.1	353.8	351.5	350.9	300.1	232.5	198.6	167.5	105.4	58.8
110°	371.2	381.2	371.2	361.3	358.9	302.1	226.5	188.6	160.7	104.6	62.5





TEST NUMBER: P934182

CATALOG NUMBER: SQ4-FA-025U-125D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	372.8	388.0	372.8	357.6	353.8	295.7	218.3	179.6	154.6	104.6	67.1
115°	362.9	384.1	362.9	341.7	336.4	280.6	206.0	168.7	147.7	105.6	74.0
117.5°	341.9	365.4	341.9	318.5	312.6	262.1	194.9	161.3	143.3	107.6	80.7
120°	325.1	347.8	325.1	302.3	296.6	250.5	188.9	158.2	141.8	109.1	84.6
122.5°	308.6	331.1	308.6	286.1	280.5	238.9	183.6	155.9	141.0	111.4	89.1
125°	285.2	305.9	285.2	264.4	259.3	224.0	176.9	153.4	140.4	114.5	95.1
127.5°	264.0	281.5	264.0	246.6	242.2	211.9	171.5	151.3	140.0	117.6	100.8
130°	251.6	267.7	251.6	235.5	231.5	204.5	168.5	150.5	140.3	119.9	104.6
132.5°	240.3	254.8	240.3	225.9	222.3	198.1	165.9	149.8	140.4	121.7	107.7
135°	224.9	237.3	224.9	212.3	209.3	189.0	162.0	148.6	140.3	123.7	111.3
137.5°	212.4	222.7	212.4	202.3	199.7	182.6	159.8	148.4	141.1	126.7	115.8
140°	203.9	213.4	203.9	194.4	192.0	177.3	157.6	147.7	141.3	128.5	118.9
142.5°	196.9	205.1	196.9	188.7	186.7	173.7	156.4	147.7	141.8	130.1	121.2
145°	186.4	192.5	186.4	180.2	178.6	167.9	153.8	146.7	141.8	132.1	124.7
147.5°	178.2	183.4	178.2	173.1	171.8	163.4	152.3	146.7	142.8	135.0	129.1
150°	173.1	177.3	173.1	168.9	167.9	160.9	151.4	146.7	143.3	136.5	131.4
152.5°	168.7	171.9	168.7	165.6	164.8	158.8	150.7	146.7	143.6	137.4	132.9
155°	163.7	165.8	163.7	161.7	161.2	156.4	149.9	146.7	144.3	139.6	136.2
157.5°	159.8	161.3	159.8	158.3	157.9	154.2	149.2	146.7	145.1	141.8	139.4
160°	157.4	158.2	157.4	156.5	156.3	153.1	148.8	146.7	145.4	142.8	140.9
162.5°	155.8	156.6	155.8	155.0	154.8	152.1	148.5	146.7	145.8	143.9	142.5
165°	153.6	154.4	153.6	152.7	152.5	150.6	148.0	146.7	146.3	145.4	144.8
167.5°	151.9	152.3	151.9	151.6	151.5	150.2	148.5	147.7	147.3	146.6	146.1
170°	151.5	151.5	151.5	151.5	151.5	150.2	148.5	147.7	147.7	147.6	147.6
172.5°	150.3	150.0	150.3	150.6	150.7	149.7	148.4	147.7	147.7	147.7	147.7
175°	149.6	149.6	149.6	149.6	149.6	149.0	148.1	147.7	147.9	148.3	148.6
177.5°	149.0	148.6	149.0	149.3	149.4	148.9	148.2	147.9	148.1	148.4	148.6
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



TEST NUMBER: P934182

CATALOG NUMBER: SQ4-FA-025U-125D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6
2.5°	1806.9	1796.8	1796.8	1780.0	1773.2	1768.1	1759.7	1734.4	1727.7	1721.0	1731.0
5°	1822.1	1803.6	1790.0	1759.7	1734.4	1724.3	1692.3	1631.6	1591.2	1560.8	1544.0
7.5°	1825.5	1801.9	1776.6	1729.4	1668.7	1641.7	1544.0	1432.7	1402.4	1375.4	1358.5
10°	1822.1	1795.1	1759.7	1688.9	1545.7	1498.5	1400.7	1328.2	1309.6	1304.7	1309.6
12.5°	1810.3	1785.0	1736.1	1618.1	1417.5	1385.5	1328.2	1286.0	1282.7	1291.1	1336.6
15°	1790.0	1766.5	1709.1	1523.8	1346.8	1323.2	1282.7	1267.5	1286.0	1345.1	1481.6
17.5°	1769.8	1742.9	1672.1	1431.1	1292.8	1276.0	1247.3	1277.7	1382.1	1461.3	1506.8
20°	1742.9	1710.8	1630.0	1363.6	1254.1	1238.9	1225.4	1361.9	1441.1	1469.8	1495.1
22.5°	1710.8	1677.2	1572.6	1316.4	1213.6	1201.8	1210.2	1409.1	1441.1	1461.3	1483.2
25°	1668.7	1640.0	1505.2	1279.4	1181.6	1168.1	1200.1	1404.1	1422.6	1427.7	1471.5
27.5°	1630.0	1592.8	1434.4	1245.6	1142.8	1137.7	1208.5	1382.1	1395.6	1400.7	1447.9
30°	1582.7	1527.1	1355.2	1210.2	1102.4	1100.7	1210.2	1355.2	1351.8	1365.3	1412.5
32.5°	1533.8	1429.4	1265.8	1166.4	1063.6	1061.9	1198.4	1314.7	1311.3	1329.9	1365.3
35°	1488.3	1353.5	1144.5	1115.8	1014.7	1016.4	1169.8	1267.5	1269.2	1286.0	1307.9
37.5°	1441.1	1287.7	1011.3	1060.2	967.5	967.5	1131.0	1223.7	1220.3	1225.4	1255.8
40°	1385.5	1184.9	893.3	987.7	923.7	918.6	1083.8	1176.5	1164.7	1163.0	1205.2
42.5°	1326.6	1072.0	805.7	891.6	873.1	866.4	1026.5	1119.2	1097.3	1102.4	1156.3
45°	1262.4	1041.7	738.2	753.5	820.9	815.8	964.1	1053.5	1038.3	1051.8	1107.5
47.5°	1198.4	981.0	716.3	625.4	765.2	763.5	895.0	989.4	981.0	994.5	1053.5
50°	1110.7	913.5	714.6	536.0	702.9	709.6	812.4	927.1	927.1	938.8	1001.2
52.5°	997.9	831.0	648.9	485.5	630.4	650.6	739.9	873.1	876.5	888.3	943.9
55°	895.0	745.0	601.8	446.7	544.4	588.2	669.2	817.5	824.2	836.0	886.6
57.5°	800.7	620.3	591.6	401.2	465.2	507.4	606.8	763.5	766.9	777.1	825.9
60°	699.5	448.4	542.7	352.3	396.1	428.1	549.5	699.5	711.3	718.0	760.1
62.5°	584.9	325.3	492.2	318.5	362.3	369.1	502.3	638.8	654.0	659.1	684.4
65°	416.3	273.1	418.0	289.9	327.0	328.7	451.7	576.5	589.9	598.4	616.9
67.5°	281.5	222.5	318.5	262.9	300.0	301.7	402.9	504.0	522.5	529.3	541.0
70°	195.5	148.3	236.0	234.3	269.7	273.1	350.6	438.2	455.1	460.2	466.9
72.5°	143.2	119.7	195.5	210.7	237.6	241.0	296.6	364.0	381.0	386.0	389.3
75°	109.6	126.4	158.5	183.8	202.3	204.0	242.7	296.6	308.5	311.8	313.5
77.5°	87.6	118.0	116.3	148.3	165.1	161.8	190.4	229.3	239.3	239.3	239.3
80°	65.7	92.7	87.6	106.2	121.3	118.0	136.6	163.5	166.8	170.2	168.5
82.5°	48.9	59.0	59.0	67.4	80.9	77.5	91.0	106.2	106.2	106.2	109.6
85°	30.4	33.7	27.0	35.4	45.5	43.8	50.6	57.3	59.0	59.0	55.6
87.5°	18.5	15.1	8.5	13.4	20.2	20.2	23.6	25.3	23.6	23.6	23.6
90°	2.6	1.8	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1
92.5°	17.5	10.8	4.0	10.8	17.5	19.2	27.1	37.5	42.7	37.4	26.9
95°	34.5	22.0	9.6	22.0	34.5	37.5	66.6	105.4	124.8	111.4	84.5
97.5°	38.4	27.5	16.5	27.5	38.4	41.2	89.7	154.4	186.8	178.3	161.3
100°	41.8	31.9	21.9	31.9	41.8	44.3	98.1	169.9	205.8	206.4	207.7
102.5°	45.1	35.8	26.5	35.8	45.1	47.4	102.0	174.8	211.2	222.0	243.6
105°	50.0	42.2	34.4	42.2	50.0	52.0	104.9	175.3	210.6	234.9	283.4
107.5°	57.0	49.6	42.3	49.6	57.0	58.8	105.4	167.5	198.6	232.5	300.1
110°	60.9	54.3	47.7	54.3	60.9	62.5	104.6	160.7	188.6	226.5	302.1



TEST NUMBER: P934182

CATALOG NUMBER: SQ4-FA-025U-125D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	65.5	59.3	53.0	59.3	65.5	67.1	104.6	154.6	179.6	218.3	295.7
115°	72.5	66.7	61.0	66.7	72.5	74.0	105.6	147.7	168.7	206.0	280.6
117.5°	79.4	74.1	68.8	74.1	79.4	80.7	107.6	143.3	161.3	194.9	262.1
120°	83.4	78.4	73.4	78.4	83.4	84.6	109.1	141.8	158.2	188.9	250.5
122.5°	87.8	82.9	77.9	82.9	87.8	89.1	111.4	141.0	155.9	183.6	238.9
125°	93.9	89.3	84.8	89.3	93.9	95.1	114.5	140.4	153.4	176.9	224.0
127.5°	99.6	95.0	90.3	95.0	99.6	100.8	117.6	140.0	151.3	171.5	211.9
130°	103.3	98.3	93.3	98.3	103.3	104.6	119.9	140.3	150.5	168.5	204.5
132.5°	106.5	101.5	96.5	101.5	106.5	107.7	121.7	140.4	149.8	165.9	198.1
135°	110.2	105.6	101.1	105.6	110.2	111.3	123.7	140.3	148.6	162.0	189.0
137.5°	114.7	110.3	105.8	110.3	114.7	115.8	126.7	141.1	148.4	159.8	182.6
140°	117.9	113.7	109.7	113.7	117.9	118.9	128.5	141.3	147.7	157.6	177.3
142.5°	120.2	116.4	112.6	116.4	120.2	121.2	130.1	141.8	147.7	156.4	173.7
145°	123.9	120.5	117.2	120.5	123.9	124.7	132.1	141.8	146.7	153.8	167.9
147.5°	128.3	125.0	121.8	125.0	128.3	129.1	135.0	142.8	146.7	152.3	163.4
150°	130.7	127.7	124.8	127.7	130.7	131.4	136.5	143.3	146.7	151.4	160.9
152.5°	132.3	130.1	127.9	130.1	132.3	132.9	137.4	143.6	146.7	150.7	158.8
155°	135.8	134.1	132.5	134.1	135.8	136.2	139.6	144.3	146.7	149.9	156.4
157.5°	139.0	137.4	135.9	137.4	139.0	139.4	141.8	145.1	146.7	149.2	154.2
160°	140.6	139.3	138.1	139.3	140.6	140.9	142.8	145.4	146.7	148.8	153.1
162.5°	142.3	141.3	140.4	141.3	142.3	142.5	143.9	145.8	146.7	148.5	152.1
165°	144.6	143.7	142.9	143.7	144.6	144.8	145.4	146.3	146.7	148.0	150.6
167.5°	146.0	145.6	145.2	145.6	146.0	146.1	146.6	147.3	147.7	148.5	150.2
170°	147.5	147.1	146.7	147.1	147.5	147.6	147.6	147.7	147.7	148.5	150.2
172.5°	147.7	147.6	147.5	147.6	147.7	147.7	147.7	147.7	147.7	148.4	149.7
175°	148.6	148.6	148.6	148.6	148.6	148.6	148.3	147.9	147.7	148.1	149.0
177.5°	148.6	148.6	148.6	148.6	148.6	148.6	148.4	148.1	147.9	148.2	148.9
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



TEST NUMBER: P934182

CATALOG NUMBER: SQ4-FA-025U-125D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6
2.5°	1719.3	1714.2	1721.0	1702.4	1721.0	1714.2	1719.3	1731.0	1721.0	1727.7	1734.4
5°	1508.5	1500.2	1473.2	1451.3	1473.2	1500.2	1508.5	1544.0	1560.8	1591.2	1631.6
7.5°	1348.5	1341.7	1334.9	1321.5	1334.9	1341.7	1348.5	1358.5	1375.4	1402.4	1432.7
10°	1313.0	1314.7	1324.9	1323.2	1324.9	1314.7	1313.0	1309.6	1304.7	1309.6	1328.2
12.5°	1404.1	1419.2	1474.9	1471.5	1474.9	1419.2	1404.1	1336.6	1291.1	1282.7	1286.0
15°	1508.5	1513.6	1525.5	1527.1	1525.5	1513.6	1508.5	1481.6	1345.1	1286.0	1267.5
17.5°	1518.7	1520.4	1528.8	1528.8	1528.8	1520.4	1518.7	1506.8	1461.3	1382.1	1277.7
20°	1510.2	1513.6	1530.5	1533.8	1530.5	1513.6	1510.2	1495.1	1469.8	1441.1	1361.9
22.5°	1506.8	1513.6	1527.1	1525.5	1527.1	1513.6	1506.8	1483.2	1461.3	1441.1	1409.1
25°	1490.0	1490.0	1491.7	1493.4	1491.7	1490.0	1490.0	1471.5	1427.7	1422.6	1404.1
27.5°	1454.7	1458.0	1468.1	1466.4	1468.1	1458.0	1454.7	1447.9	1400.7	1395.6	1382.1
30°	1422.6	1419.2	1410.8	1404.1	1410.8	1419.2	1422.6	1412.5	1365.3	1351.8	1355.2
32.5°	1368.7	1360.2	1351.8	1346.8	1351.8	1360.2	1368.7	1365.3	1329.9	1311.3	1314.7
35°	1304.7	1306.3	1304.7	1299.6	1304.7	1306.3	1304.7	1307.9	1286.0	1269.2	1267.5
37.5°	1259.1	1262.4	1260.8	1254.1	1260.8	1262.4	1259.1	1255.8	1225.4	1220.3	1223.7
40°	1211.9	1213.6	1211.9	1206.9	1211.9	1213.6	1211.9	1205.2	1163.0	1164.7	1176.5
42.5°	1166.4	1164.7	1159.6	1156.3	1159.6	1164.7	1166.4	1156.3	1102.4	1097.3	1119.2
45°	1114.1	1115.8	1105.8	1100.7	1105.8	1115.8	1114.1	1107.5	1051.8	1038.3	1053.5
47.5°	1061.9	1061.9	1053.5	1048.4	1053.5	1061.9	1061.9	1053.5	994.5	981.0	989.4
50°	1006.3	1004.6	992.8	991.1	992.8	1004.6	1006.3	1001.2	938.8	927.1	927.1
52.5°	942.2	942.2	943.9	947.3	943.9	942.2	942.2	943.9	888.3	876.5	873.1
55°	886.6	888.3	900.1	903.5	900.1	888.3	886.6	886.6	836.0	824.2	817.5
57.5°	829.3	829.3	837.7	837.7	837.7	829.3	829.3	825.9	777.1	766.9	763.5
60°	763.5	766.9	773.7	772.0	773.7	766.9	763.5	760.1	718.0	711.3	699.5
62.5°	694.4	697.8	699.5	696.1	699.5	697.8	694.4	684.4	659.1	654.0	638.8
65°	622.0	625.4	627.0	623.7	627.0	625.4	622.0	616.9	598.4	589.9	576.5
67.5°	547.8	546.1	544.4	551.2	544.4	546.1	547.8	541.0	529.3	522.5	504.0
70°	471.9	471.9	470.3	473.6	470.3	471.9	471.9	466.9	460.2	455.1	438.2
72.5°	391.0	389.3	396.1	391.0	396.1	389.3	391.0	389.3	386.0	381.0	364.0
75°	311.8	315.2	311.8	316.9	311.8	315.2	311.8	313.5	311.8	308.5	296.6
77.5°	237.6	241.0	237.6	237.6	237.6	241.0	237.6	239.3	239.3	239.3	229.3
80°	168.5	166.8	166.8	165.1	166.8	166.8	168.5	168.5	170.2	166.8	163.5
82.5°	107.9	106.2	106.2	109.6	106.2	106.2	107.9	109.6	106.2	106.2	106.2
85°	59.0	60.7	57.3	57.3	57.3	60.7	59.0	55.6	59.0	59.0	57.3
87.5°	21.9	20.2	20.2	20.2	20.2	20.2	21.9	23.6	23.6	23.6	25.3
90°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5
92.5°	18.9	18.1	15.1	12.2	15.1	18.1	18.9	26.9	37.4	42.7	37.5
95°	64.3	62.1	53.0	43.8	53.0	62.1	64.3	84.5	111.4	124.8	105.4
97.5°	148.5	144.1	126.8	109.5	126.8	144.1	148.5	161.3	178.3	186.8	154.4
100°	208.6	203.4	182.8	162.0	182.8	203.4	208.6	207.7	206.4	205.8	169.9
102.5°	259.9	255.4	237.6	219.9	237.6	255.4	259.9	243.6	222.0	211.2	174.8
105°	319.7	317.3	307.9	298.3	307.9	317.3	319.7	283.4	234.9	210.6	175.3
107.5°	350.9	351.5	353.8	356.1	353.8	351.5	350.9	300.1	232.5	198.6	167.5
110°	358.9	361.3	371.2	381.2	371.2	361.3	358.9	302.1	226.5	188.6	160.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	353.8	357.6	372.8	388.0	372.8	357.6	353.8	295.7	218.3	179.6	154.6
115°	336.4	341.7	362.9	384.1	362.9	341.7	336.4	280.6	206.0	168.7	147.7
117.5°	312.6	318.5	341.9	365.4	341.9	318.5	312.6	262.1	194.9	161.3	143.3
120°	296.6	302.3	325.1	347.8	325.1	302.3	296.6	250.5	188.9	158.2	141.8
122.5°	280.5	286.1	308.6	331.1	308.6	286.1	280.5	238.9	183.6	155.9	141.0
125°	259.3	264.4	285.2	305.9	285.2	264.4	259.3	224.0	176.9	153.4	140.4
127.5°	242.2	246.6	264.0	281.5	264.0	246.6	242.2	211.9	171.5	151.3	140.0
130°	231.5	235.5	251.6	267.7	251.6	235.5	231.5	204.5	168.5	150.5	140.3
132.5°	222.3	225.9	240.3	254.8	240.3	225.9	222.3	198.1	165.9	149.8	140.4
135°	209.3	212.3	224.9	237.3	224.9	212.3	209.3	189.0	162.0	148.6	140.3
137.5°	199.7	202.3	212.4	222.7	212.4	202.3	199.7	182.6	159.8	148.4	141.1
140°	192.0	194.4	203.9	213.4	203.9	194.4	192.0	177.3	157.6	147.7	141.3
142.5°	186.7	188.7	196.9	205.1	196.9	188.7	186.7	173.7	156.4	147.7	141.8
145°	178.6	180.2	186.4	192.5	186.4	180.2	178.6	167.9	153.8	146.7	141.8
147.5°	171.8	173.1	178.2	183.4	178.2	173.1	171.8	163.4	152.3	146.7	142.8
150°	167.9	168.9	173.1	177.3	173.1	168.9	167.9	160.9	151.4	146.7	143.3
152.5°	164.8	165.6	168.7	171.9	168.7	165.6	164.8	158.8	150.7	146.7	143.6
155°	161.2	161.7	163.7	165.8	163.7	161.7	161.2	156.4	149.9	146.7	144.3
157.5°	157.9	158.3	159.8	161.3	159.8	158.3	157.9	154.2	149.2	146.7	145.1
160°	156.3	156.5	157.4	158.2	157.4	156.5	156.3	153.1	148.8	146.7	145.4
162.5°	154.8	155.0	155.8	156.6	155.8	155.0	154.8	152.1	148.5	146.7	145.8
165°	152.5	152.7	153.6	154.4	153.6	152.7	152.5	150.6	148.0	146.7	146.3
167.5°	151.5	151.6	151.9	152.3	151.9	151.6	151.5	150.2	148.5	147.7	147.3
170°	151.5	151.5	151.5	151.5	151.5	151.5	151.5	150.2	148.5	147.7	147.7
172.5°	150.7	150.6	150.3	150.0	150.3	150.6	150.7	149.7	148.4	147.7	147.7
175°	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.0	148.1	147.7	147.9
177.5°	149.4	149.3	149.0	148.6	149.0	149.3	149.4	148.9	148.2	147.9	148.1
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1781.6	1781.6	1781.6	1781.6	1781.6
2.5°	1759.7	1768.1	1773.2	1780.0	1796.8
5°	1692.3	1724.3	1734.4	1759.7	1790.0
7.5°	1544.0	1641.7	1668.7	1729.4	1776.6
10°	1400.7	1498.5	1545.7	1688.9	1759.7
12.5°	1328.2	1385.5	1417.5	1618.1	1736.1
15°	1282.7	1323.2	1346.8	1523.8	1709.1
17.5°	1247.3	1276.0	1292.8	1431.1	1672.1
20°	1225.4	1238.9	1254.1	1363.6	1630.0
22.5°	1210.2	1201.8	1213.6	1316.4	1572.6
25°	1200.1	1168.1	1181.6	1279.4	1505.2
27.5°	1208.5	1137.7	1142.8	1245.6	1434.4
30°	1210.2	1100.7	1102.4	1210.2	1355.2
32.5°	1198.4	1061.9	1063.6	1166.4	1265.8
35°	1169.8	1016.4	1014.7	1115.8	1144.5
37.5°	1131.0	967.5	967.5	1060.2	1011.3
40°	1083.8	918.6	923.7	987.7	893.3
42.5°	1026.5	866.4	873.1	891.6	805.7
45°	964.1	815.8	820.9	753.5	738.2
47.5°	895.0	763.5	765.2	625.4	716.3
50°	812.4	709.6	702.9	536.0	714.6
52.5°	739.9	650.6	630.4	485.5	648.9
55°	669.2	588.2	544.4	446.7	601.8
57.5°	606.8	507.4	465.2	401.2	591.6
60°	549.5	428.1	396.1	352.3	542.7
62.5°	502.3	369.1	362.3	318.5	492.2
65°	451.7	328.7	327.0	289.9	418.0
67.5°	402.9	301.7	300.0	262.9	318.5
70°	350.6	273.1	269.7	234.3	236.0
72.5°	296.6	241.0	237.6	210.7	195.5
75°	242.7	204.0	202.3	183.8	158.5
77.5°	190.4	161.8	165.1	148.3	116.3
80°	136.6	118.0	121.3	106.2	87.6
82.5°	91.0	77.5	80.9	67.4	59.0
85°	50.6	43.8	45.5	35.4	27.0
87.5°	23.6	20.2	20.2	13.4	8.5
90°	4.4	2.8	2.6	1.8	1.0
92.5°	27.1	19.2	17.5	10.8	4.0
95°	66.6	37.5	34.5	22.0	9.6
97.5°	89.7	41.2	38.4	27.5	16.5
100°	98.1	44.3	41.8	31.9	21.9
102.5°	102.0	47.4	45.1	35.8	26.5
105°	104.9	52.0	50.0	42.2	34.4
107.5°	105.4	58.8	57.0	49.6	42.3
110°	104.6	62.5	60.9	54.3	47.7



TEST NUMBER: P934182

CATALOG NUMBER: SQ4-FA-025U-125D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	104.6	67.1	65.5	59.3	53.0
115°	105.6	74.0	72.5	66.7	61.0
117.5°	107.6	80.7	79.4	74.1	68.8
120°	109.1	84.6	83.4	78.4	73.4
122.5°	111.4	89.1	87.8	82.9	77.9
125°	114.5	95.1	93.9	89.3	84.8
127.5°	117.6	100.8	99.6	95.0	90.3
130°	119.9	104.6	103.3	98.3	93.3
132.5°	121.7	107.7	106.5	101.5	96.5
135°	123.7	111.3	110.2	105.6	101.1
137.5°	126.7	115.8	114.7	110.3	105.8
140°	128.5	118.9	117.9	113.7	109.7
142.5°	130.1	121.2	120.2	116.4	112.6
145°	132.1	124.7	123.9	120.5	117.2
147.5°	135.0	129.1	128.3	125.0	121.8
150°	136.5	131.4	130.7	127.7	124.8
152.5°	137.4	132.9	132.3	130.1	127.9
155°	139.6	136.2	135.8	134.1	132.5
157.5°	141.8	139.4	139.0	137.4	135.9
160°	142.8	140.9	140.6	139.3	138.1
162.5°	143.9	142.5	142.3	141.3	140.4
165°	145.4	144.8	144.6	143.7	142.9
167.5°	146.6	146.1	146.0	145.6	145.2
170°	147.6	147.6	147.5	147.1	146.7
172.5°	147.7	147.7	147.7	147.6	147.5
175°	148.3	148.6	148.6	148.6	148.6
177.5°	148.4	148.6	148.6	148.6	148.6
180°	148.6	148.6	148.6	148.6	148.6



TEST NUMBER: P934182  
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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	17.15	18.41	17.77	19.04	19.75	19.95	21.21	20.56	21.83	22.54
	3H	17.66	18.79	18.29	19.43	20.17	21.31	22.45	21.94	23.08	23.83
	4H	17.87	18.93	18.51	19.58	20.34	21.77	22.84	22.42	23.48	24.24
	6H	18.01	18.99	18.67	19.65	20.43	22.07	23.05	22.73	23.71	24.49
	8H	18.02	18.96	18.69	19.64	20.42	22.15	23.09	22.82	23.77	24.55
	12H	18.00	18.90	18.68	19.57	20.38	22.20	23.09	22.87	23.77	24.57
4H	2H	18.22	19.29	18.87	19.94	20.70	20.41	21.47	21.06	22.12	22.88
	3H	19.29	20.18	19.95	20.86	21.64	21.94	22.83	22.60	23.52	24.30
	4H	19.58	20.38	20.26	21.08	21.89	22.48	23.28	23.16	23.97	24.78
	6H	19.73	20.43	20.43	21.14	21.96	22.86	23.56	23.56	24.27	25.09
	8H	19.74	20.40	20.45	21.11	21.94	22.97	23.62	23.67	24.34	25.17
	12H	19.73	20.32	20.45	21.05	21.89	23.04	23.63	23.76	24.36	25.20
8H	4H	20.06	20.71	20.76	21.43	22.26	22.63	23.29	23.34	24.00	24.83
	6H	20.34	20.88	21.07	21.63	22.47	23.08	23.62	23.81	24.38	25.21
	8H	20.38	20.87	21.13	21.63	22.48	23.23	23.71	23.98	24.47	25.32
	12H	20.38	20.81	21.14	21.56	22.47	23.34	23.77	24.09	24.51	25.43
12H	4H	20.08	20.67	20.81	21.41	22.25	22.62	23.20	23.34	23.94	24.78
	6H	20.40	20.88	21.15	21.64	22.49	23.08	23.56	23.83	24.32	25.17
	8H	20.48	20.91	21.23	21.66	22.57	23.25	23.68	24.00	24.43	25.34