

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: P933992

Luminaire Tested: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933992
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

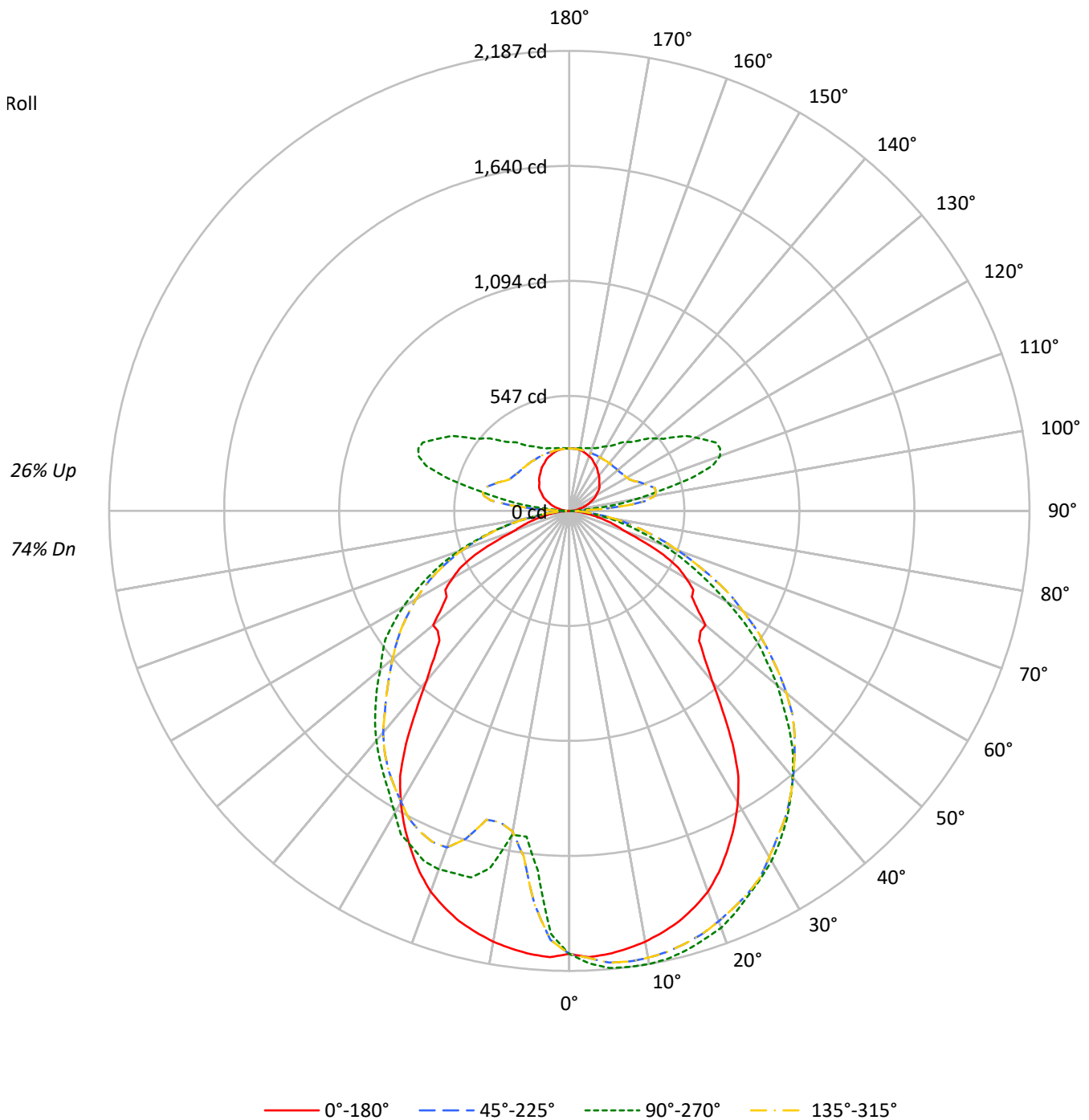
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7387.4 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74		
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62		
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52		
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44		
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38		
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33		
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29		
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26		
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23		
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21		
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9768	9768	9768	9768
5°	9841	9861	9841	7753
10°	9775	9713	9775	6944
15°	9669	9503	9669	7935
20°	9467	9254	9467	7952
25°	9053	8890	9053	7783
30°	8518	8588	8518	7413
35°	7594	8206	7594	7006
40°	6328	7757	6328	6699
45°	5654	7230	5654	6346
50°	6007	6603	6007	5992
55°	5651	5927	5651	5787
60°	5826	5034	5826	5300
65°	5282	4162	5282	4651
70°	3658	3316	3658	3899
75°	3206	2451	3206	2936
80°	2585	1621	2585	1765
85°	1486	859	1486	729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8665 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	2.6
10°-20°	539.6	7.3
20°-30°	834.1	11.3
30°-40°	995.8	13.5
40°-50°	1001.6	13.6
50°-60°	871.6	11.8
60°-70°	618.0	8.4
70°-80°	326.9	4.4
80°-90°	82.6	1.1
90°-100°	144.9	2.0
100°-110°	381.0	5.2
110°-120°	395.0	5.3
120°-130°	316.9	4.3
130°-140°	248.6	3.4
140°-150°	190.8	2.6
150°-160°	137.4	1.9
160°-170°	84.1	1.1
170°-180°	28.4	0.4
0°-30°	1563.8	21.2
0°-40°	2559.6	34.6
0°-60°	4432.8	60.0
0°-90°	5460.2	73.9
90°-120°	920.9	12.5
90°-150°	1677.2	22.7
90°-180°	1927.0	26.1
0°-180°	7387.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2105	2105	2105	2105	2105	
5°	2115	2181	2115	1715	2115	201
15°	2020	2161	2020	1805	2020	568
25°	1779	2016	1779	1765	1779	817
35°	1352	1799	1352	1536	1352	837
45°	872	1482	872	1301	872	699
55°	711	1094	711	1068	711	653
65°	494	659	494	737	494	472
75°	187	313	187	374	187	197
85°	32	80	32	68	32	43
90°	2	8	2	8	2	3
95°	19	88	19	88	19	21
105°	69	596	69	596	69	73
115°	122	768	122	768	122	120
125°	170	612	170	612	170	151
135°	202	475	202	475	202	156
145°	234	385	234	385	234	147
155°	265	332	265	332	265	122
165°	286	309	286	309	286	81
175°	297	299	297	299	297	28
180°	297	297	297	297	297	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4
2.5°	2123.4	2123.4	2135.3	2139.3	2139.3	2133.3	2127.4	2133.3	2151.3	2157.2	2155.2
5°	2115.4	2131.3	2153.3	2157.2	2161.2	2159.2	2155.2	2159.2	2179.1	2183.1	2185.1
7.5°	2099.5	2129.3	2157.2	2163.2	2169.2	2163.2	2161.2	2165.2	2185.1	2189.1	2189.1
10°	2079.5	2121.4	2153.3	2157.2	2163.2	2157.2	2157.2	2165.2	2185.1	2189.1	2191.1
12.5°	2051.7	2109.4	2139.3	2143.3	2151.3	2149.3	2147.3	2155.2	2175.2	2179.1	2179.1
15°	2019.8	2087.5	2115.4	2119.4	2133.3	2129.3	2129.3	2137.3	2159.2	2165.2	2163.2
17.5°	1976.0	2059.6	2091.5	2097.5	2107.4	2105.4	2107.4	2115.4	2135.3	2139.3	2141.3
20°	1926.2	2021.8	2059.6	2065.6	2075.6	2075.6	2075.6	2085.5	2105.4	2113.4	2113.4
22.5°	1858.4	1981.9	2021.8	2025.8	2037.7	2037.7	2041.7	2055.6	2073.6	2075.6	2075.6
25°	1778.8	1938.1	1972.0	1983.9	1995.9	2001.9	2007.8	2015.8	2021.8	2019.8	2021.8
27.5°	1695.1	1882.3	1926.2	1934.1	1950.1	1956.0	1964.0	1966.0	1968.0	1974.0	1970.0
30°	1601.5	1804.7	1870.4	1878.4	1904.3	1908.2	1900.3	1904.3	1914.2	1918.2	1922.2
32.5°	1495.9	1689.1	1812.6	1830.5	1854.5	1842.5	1840.5	1846.5	1862.4	1862.4	1866.4
35°	1352.5	1599.5	1758.8	1774.8	1792.7	1778.8	1786.7	1788.7	1798.7	1804.7	1802.7
37.5°	1195.1	1521.8	1703.1	1715.0	1729.0	1711.0	1723.0	1729.0	1736.9	1732.9	1732.9
40°	1055.8	1400.3	1637.3	1645.3	1657.2	1643.3	1655.3	1659.2	1663.2	1659.2	1657.2
42.5°	952.2	1266.8	1567.6	1577.6	1569.6	1579.6	1583.5	1591.5	1585.5	1577.6	1577.6
45°	872.5	1231.0	1491.9	1503.9	1491.9	1507.8	1513.8	1513.8	1495.9	1491.9	1489.9
47.5°	846.6	1159.3	1416.2	1416.2	1410.2	1430.2	1440.1	1426.2	1408.2	1402.3	1402.3
50°	844.6	1079.7	1312.6	1304.7	1332.5	1356.5	1346.5	1332.5	1318.6	1296.7	1296.7
52.5°	766.9	982.1	1179.3	1209.0	1252.9	1266.8	1250.9	1236.9	1213.0	1203.1	1195.1
55°	711.1	880.5	1057.8	1117.5	1163.3	1181.3	1151.4	1137.4	1101.6	1095.6	1091.6
57.5°	699.2	733.1	946.2	1021.9	1077.7	1075.7	1057.8	1031.9	1002.0	996.0	994.0
60°	641.4	529.9	826.7	916.3	974.1	968.1	952.2	928.3	900.4	896.4	892.4
62.5°	581.7	384.5	691.2	792.8	874.5	872.5	858.6	822.7	802.8	792.8	784.8
65°	494.0	322.7	492.0	659.4	776.9	780.9	751.0	725.1	703.2	691.2	689.2
67.5°	376.5	262.9	332.7	549.8	683.3	679.3	641.4	629.5	601.6	595.6	583.7
70°	278.9	175.3	231.1	446.2	591.6	581.7	551.8	537.8	511.9	498.0	490.0
72.5°	231.1	141.4	169.3	346.6	498.0	486.0	460.2	444.2	422.3	410.4	402.4
75°	187.2	149.4	129.5	257.0	404.4	396.4	372.5	356.6	338.6	322.7	324.7
77.5°	137.4	139.4	103.6	189.2	320.7	308.8	294.8	274.9	266.9	251.0	251.0
80°	103.6	109.6	77.7	129.5	231.1	231.1	219.1	205.2	191.2	183.3	183.3
82.5°	69.7	69.7	57.8	81.7	157.4	151.4	143.4	139.4	131.5	127.5	127.5
85°	31.9	39.8	35.9	49.8	85.7	89.6	89.6	85.7	83.7	79.7	81.7
87.5°	10.0	17.9	21.9	27.9	43.8	45.8	47.8	47.8	47.8	49.8	49.8
90°	2.0	3.6	5.2	5.6	8.8	13.0	15.1	13.4	10.1	7.6	7.6
92.5°	8.0	21.5	35.2	38.5	54.2	75.0	85.4	74.8	53.8	37.9	36.5
95°	19.1	43.9	68.8	75.0	133.2	210.8	249.6	222.7	169.0	128.7	124.1
97.5°	33.2	55.1	76.9	82.4	179.4	308.8	373.5	356.6	322.6	297.1	288.4
100°	43.9	63.7	83.6	88.5	196.2	339.7	411.5	412.8	415.3	417.2	406.9
102.5°	53.1	71.6	90.1	94.7	204.0	349.6	422.4	444.0	487.2	519.7	510.8
105°	68.6	84.4	100.1	104.0	209.8	350.7	421.2	469.7	566.7	639.4	634.7
107.5°	84.6	99.2	113.8	117.5	210.8	335.1	397.2	464.8	600.2	701.7	702.9
110°	95.4	108.6	121.8	125.1	209.2	321.2	377.3	452.9	604.2	717.6	722.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	106.0	118.5	131.1	134.3	209.3	309.2	359.2	436.5	591.3	707.5	715.1
115°	121.9	133.5	145.1	148.0	211.2	295.3	337.3	411.9	561.1	673.0	683.6
117.5°	137.6	148.2	158.8	161.5	215.1	286.6	322.4	389.7	524.3	625.3	637.0
120°	146.8	156.8	166.7	169.2	218.3	283.8	316.4	377.9	500.9	593.1	604.5
122.5°	155.8	165.8	175.9	178.4	222.9	282.2	311.8	367.2	478.0	561.0	572.3
125°	169.6	178.8	187.8	190.1	229.1	281.0	306.9	353.9	448.0	518.5	528.9
127.5°	180.8	189.9	199.2	201.5	235.3	280.2	302.7	343.1	423.9	484.5	493.2
130°	186.8	196.7	206.6	209.1	239.7	280.7	301.1	337.0	409.0	462.8	470.9
132.5°	192.9	202.9	212.7	215.2	243.4	281.0	299.7	331.9	396.2	444.5	451.8
135°	202.1	211.2	220.2	222.5	247.4	280.7	297.3	324.3	378.2	418.6	424.8
137.5°	211.5	220.4	229.4	231.7	253.4	282.4	296.9	319.7	365.2	399.4	404.5
140°	219.2	227.5	235.8	237.8	257.1	282.7	295.5	315.2	354.6	384.1	388.8
142.5°	225.3	232.9	240.5	242.4	260.2	283.8	295.5	312.8	347.4	373.3	377.4
145°	234.5	241.1	247.7	249.4	264.1	283.8	293.5	307.7	336.0	357.2	360.3
147.5°	243.6	250.1	256.6	258.2	269.9	285.7	293.5	304.7	326.9	343.5	346.1
150°	249.6	255.5	261.3	262.7	273.0	286.6	293.5	302.9	321.7	335.8	337.8
152.5°	255.8	260.2	264.6	265.7	275.0	287.3	293.5	301.5	317.5	329.6	331.2
155°	264.9	268.2	271.5	272.3	279.4	288.8	293.5	299.9	312.6	322.2	323.2
157.5°	271.7	274.9	278.1	278.9	283.8	290.2	293.5	298.5	308.4	315.8	316.5
160°	276.3	278.8	281.3	281.9	285.8	290.9	293.5	297.8	306.3	312.6	313.0
162.5°	280.9	282.8	284.6	285.1	287.8	291.6	293.5	297.1	304.3	309.7	310.1
165°	286.0	287.6	289.3	289.7	291.0	292.7	293.5	296.1	301.2	305.1	305.5
167.5°	290.5	291.3	292.1	292.3	293.4	294.8	295.5	297.2	300.6	303.1	303.3
170°	293.5	294.3	295.1	295.3	295.4	295.5	295.5	297.2	300.6	303.1	303.1
172.5°	295.1	295.3	295.5	295.5	295.5	295.5	295.5	296.8	299.5	301.5	301.3
175°	297.3	297.3	297.3	297.3	296.7	295.9	295.5	296.3	298.0	299.3	299.3
177.5°	297.3	297.3	297.3	297.3	296.8	296.2	295.9	296.6	297.9	298.9	298.7
180°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4
2.5°	2159.2	2153.3	2159.2	2155.2	2157.2	2151.3	2133.3	2127.4	2133.3	2139.3	2139.3
5°	2185.1	2181.1	2185.1	2185.1	2183.1	2179.1	2159.2	2155.2	2159.2	2161.2	2157.2
7.5°	2193.1	2187.1	2193.1	2189.1	2189.1	2185.1	2165.2	2161.2	2163.2	2169.2	2163.2
10°	2193.1	2187.1	2193.1	2191.1	2189.1	2185.1	2165.2	2157.2	2157.2	2163.2	2157.2
12.5°	2183.1	2179.1	2183.1	2179.1	2179.1	2175.2	2155.2	2147.3	2149.3	2151.3	2143.3
15°	2167.2	2161.2	2167.2	2163.2	2165.2	2159.2	2137.3	2129.3	2129.3	2133.3	2119.4
17.5°	2143.3	2135.3	2143.3	2141.3	2139.3	2135.3	2115.4	2107.4	2105.4	2107.4	2097.5
20°	2115.4	2109.4	2115.4	2113.4	2113.4	2105.4	2085.5	2075.6	2075.6	2075.6	2065.6
22.5°	2071.6	2065.6	2071.6	2075.6	2075.6	2073.6	2055.6	2041.7	2037.7	2037.7	2025.8
25°	2021.8	2015.8	2021.8	2021.8	2019.8	2021.8	2015.8	2007.8	2001.9	1995.9	1983.9
27.5°	1974.0	1970.0	1974.0	1970.0	1974.0	1968.0	1966.0	1964.0	1956.0	1950.1	1934.1
30°	1926.2	1922.2	1926.2	1922.2	1918.2	1914.2	1904.3	1900.3	1908.2	1904.3	1878.4
32.5°	1866.4	1862.4	1866.4	1866.4	1862.4	1862.4	1846.5	1840.5	1842.5	1854.5	1830.5
35°	1804.7	1798.7	1804.7	1802.7	1804.7	1798.7	1788.7	1786.7	1778.8	1792.7	1774.8
37.5°	1732.9	1727.0	1732.9	1732.9	1732.9	1736.9	1729.0	1723.0	1711.0	1729.0	1715.0
40°	1659.2	1651.3	1659.2	1657.2	1659.2	1663.2	1659.2	1655.3	1643.3	1657.2	1645.3
42.5°	1575.6	1573.6	1575.6	1577.6	1577.6	1585.5	1591.5	1583.5	1579.6	1569.6	1577.6
45°	1485.9	1481.9	1485.9	1489.9	1491.9	1495.9	1513.8	1513.8	1507.8	1491.9	1503.9
47.5°	1390.3	1380.4	1390.3	1402.3	1402.3	1408.2	1426.2	1440.1	1430.2	1410.2	1416.2
50°	1288.7	1290.7	1288.7	1296.7	1296.7	1318.6	1332.5	1346.5	1356.5	1332.5	1304.7
52.5°	1189.1	1187.2	1189.1	1195.1	1203.1	1213.0	1236.9	1250.9	1266.8	1252.9	1209.0
55°	1089.6	1093.6	1089.6	1091.6	1095.6	1101.6	1137.4	1151.4	1181.3	1163.3	1117.5
57.5°	990.0	984.0	990.0	994.0	996.0	1002.0	1031.9	1057.8	1075.7	1077.7	1021.9
60°	874.5	866.5	874.5	892.4	896.4	900.4	928.3	952.2	968.1	974.1	916.3
62.5°	772.9	759.0	772.9	784.8	792.8	802.8	822.7	858.6	872.5	874.5	792.8
65°	665.3	659.4	665.3	689.2	691.2	703.2	725.1	751.0	780.9	776.9	659.4
67.5°	567.7	567.7	567.7	583.7	595.6	601.6	629.5	641.4	679.3	683.3	549.8
70°	478.1	476.1	478.1	490.0	498.0	511.9	537.8	551.8	581.7	591.6	446.2
72.5°	392.4	390.4	392.4	402.4	410.4	422.3	444.2	460.2	486.0	498.0	346.6
75°	316.7	312.7	316.7	324.7	322.7	338.6	356.6	372.5	396.4	404.4	257.0
77.5°	243.0	243.0	243.0	251.0	251.0	266.9	274.9	294.8	308.8	320.7	189.2
80°	181.3	179.3	181.3	183.3	183.3	191.2	205.2	219.1	231.1	231.1	129.5
82.5°	127.5	123.5	127.5	127.5	127.5	131.5	139.4	143.4	151.4	157.4	81.7
85°	79.7	79.7	79.7	81.7	79.7	83.7	85.7	89.6	89.6	85.7	49.8
87.5°	51.8	49.8	51.8	49.8	49.8	47.8	47.8	47.8	45.8	43.8	27.9
90°	7.6	7.6	7.6	7.6	7.6	10.1	13.4	15.1	13.0	8.8	5.6
92.5°	30.4	24.3	30.4	36.5	37.9	53.8	74.8	85.4	75.0	54.2	38.5
95°	105.9	87.5	105.9	124.1	128.7	169.0	222.7	249.6	210.8	133.2	75.0
97.5°	253.6	218.8	253.6	288.4	297.1	322.6	356.6	373.5	308.8	179.4	82.4
100°	365.4	324.0	365.4	406.9	417.2	415.3	412.8	411.5	339.7	196.2	88.5
102.5°	475.4	439.9	475.4	510.8	519.7	487.2	444.0	422.4	349.6	204.0	94.7
105°	615.6	596.5	615.6	634.7	639.4	566.7	469.7	421.2	350.7	209.8	104.0
107.5°	707.5	712.0	707.5	702.9	701.7	600.2	464.8	397.2	335.1	210.8	117.5
110°	742.4	762.3	742.4	722.6	717.6	604.2	452.9	377.3	321.2	209.2	125.1



TEST NUMBER: P933992

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	745.6	776.1	745.6	715.1	707.5	591.3	436.5	359.2	309.2	209.3	134.3
115°	725.9	768.1	725.9	683.6	673.0	561.1	411.9	337.3	295.3	211.2	148.0
117.5°	684.0	730.9	684.0	637.0	625.3	524.3	389.7	322.4	286.6	215.1	161.5
120°	650.1	695.7	650.1	604.5	593.1	500.9	377.9	316.4	283.8	218.3	169.2
122.5°	617.2	662.1	617.2	572.3	561.0	478.0	367.2	311.8	282.2	222.9	178.4
125°	570.3	611.7	570.3	528.9	518.5	448.0	353.9	306.9	281.0	229.1	190.1
127.5°	528.1	563.0	528.1	493.2	484.5	423.9	343.1	302.7	280.2	235.3	201.5
130°	503.2	535.4	503.2	470.9	462.8	409.0	337.0	301.1	280.7	239.7	209.1
132.5°	480.7	509.6	480.7	451.8	444.5	396.2	331.9	299.7	281.0	243.4	215.2
135°	449.7	474.6	449.7	424.8	418.6	378.2	324.3	297.3	280.7	247.4	222.5
137.5°	424.9	445.3	424.9	404.5	399.4	365.2	319.7	296.9	282.4	253.4	231.7
140°	407.9	427.0	407.9	388.8	384.1	354.6	315.2	295.5	282.7	257.1	237.8
142.5°	393.8	410.2	393.8	377.4	373.3	347.4	312.8	295.5	283.8	260.2	242.4
145°	372.7	385.1	372.7	360.3	357.2	336.0	307.7	293.5	283.8	264.1	249.4
147.5°	356.4	366.7	356.4	346.1	343.5	326.9	304.7	293.5	285.7	269.9	258.2
150°	346.2	354.6	346.2	337.8	335.8	321.7	302.9	293.5	286.6	273.0	262.7
152.5°	337.4	343.7	337.4	331.2	329.6	317.5	301.5	293.5	287.3	275.0	265.7
155°	327.4	331.6	327.4	323.2	322.2	312.6	299.9	293.5	288.8	279.4	272.3
157.5°	319.5	322.4	319.5	316.5	315.8	308.4	298.5	293.5	290.2	283.8	278.9
160°	314.7	316.4	314.7	313.0	312.6	306.3	297.8	293.5	290.9	285.8	281.9
162.5°	311.6	313.2	311.6	310.1	309.7	304.3	297.1	293.5	291.6	287.8	285.1
165°	307.2	308.9	307.2	305.5	305.1	301.2	296.1	293.5	292.7	291.0	289.7
167.5°	304.0	304.7	304.0	303.3	303.1	300.6	297.2	295.5	294.8	293.4	292.3
170°	303.1	303.1	303.1	303.1	303.1	300.6	297.2	295.5	295.5	295.4	295.3
172.5°	300.7	300.1	300.7	301.3	301.5	299.5	296.8	295.5	295.5	295.5	295.5
175°	299.3	299.3	299.3	299.3	299.3	298.0	296.3	295.5	295.9	296.7	297.3
177.5°	298.0	297.3	298.0	298.7	298.9	297.9	296.6	295.9	296.2	296.8	297.3
180°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3



TEST NUMBER: P933992

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4
2.5°	2135.3	2123.4	2123.4	2103.5	2095.5	2089.5	2079.5	2049.7	2041.7	2033.7	2045.7
5°	2153.3	2131.3	2115.4	2079.5	2049.7	2037.7	1999.9	1928.2	1880.3	1844.5	1824.6
7.5°	2157.2	2129.3	2099.5	2043.7	1972.0	1940.1	1824.6	1693.1	1657.2	1625.4	1605.5
10°	2153.3	2121.4	2079.5	1995.9	1826.6	1770.8	1655.3	1569.6	1547.7	1541.7	1547.7
12.5°	2139.3	2109.4	2051.7	1912.2	1675.2	1637.3	1569.6	1519.8	1515.8	1525.8	1579.6
15°	2115.4	2087.5	2019.8	1800.7	1591.5	1563.6	1515.8	1497.9	1519.8	1589.5	1750.9
17.5°	2091.5	2059.6	1976.0	1691.1	1527.8	1507.8	1474.0	1509.8	1633.3	1727.0	1780.7
20°	2059.6	2021.8	1926.2	1611.4	1481.9	1464.0	1448.1	1609.4	1703.1	1736.9	1766.8
22.5°	2021.8	1981.9	1858.4	1555.7	1434.1	1420.2	1430.2	1665.2	1703.1	1727.0	1752.9
25°	1972.0	1938.1	1778.8	1511.8	1396.3	1380.4	1418.2	1659.2	1681.1	1687.1	1738.9
27.5°	1926.2	1882.3	1695.1	1472.0	1350.5	1344.5	1428.2	1633.3	1649.3	1655.3	1711.0
30°	1870.4	1804.7	1601.5	1430.2	1302.7	1300.7	1430.2	1601.5	1597.5	1613.4	1669.2
32.5°	1812.6	1689.1	1495.9	1378.4	1256.9	1254.9	1416.2	1553.7	1549.7	1571.6	1613.4
35°	1758.8	1599.5	1352.5	1318.6	1199.1	1201.1	1382.3	1497.9	1499.9	1519.8	1545.7
37.5°	1703.1	1521.8	1195.1	1252.9	1143.4	1143.4	1336.5	1446.1	1442.1	1448.1	1483.9
40°	1637.3	1400.3	1055.8	1167.3	1091.6	1085.6	1280.8	1390.3	1376.4	1374.4	1424.2
42.5°	1567.6	1266.8	952.2	1053.8	1031.9	1023.9	1213.0	1322.6	1296.7	1302.7	1366.4
45°	1491.9	1231.0	872.5	890.4	970.1	964.1	1139.4	1244.9	1227.0	1242.9	1308.6
47.5°	1416.2	1159.3	846.6	739.0	904.4	902.4	1057.8	1169.3	1159.3	1175.3	1244.9
50°	1312.6	1079.7	844.6	633.5	830.7	838.6	960.1	1095.6	1095.6	1109.5	1183.2
52.5°	1179.3	982.1	766.9	573.7	745.0	768.9	874.5	1031.9	1035.8	1049.8	1115.5
55°	1057.8	880.5	711.1	527.9	643.4	695.2	790.8	966.1	974.1	988.0	1047.8
57.5°	946.2	733.1	699.2	474.1	549.8	599.6	717.1	902.4	906.4	918.3	976.1
60°	826.7	529.9	641.4	416.3	468.1	506.0	649.4	826.7	840.6	848.6	898.4
62.5°	691.2	384.5	581.7	376.5	428.3	436.2	593.6	755.0	772.9	778.9	808.8
65°	492.0	322.7	494.0	342.6	386.4	388.4	533.9	681.3	697.2	707.2	729.1
67.5°	332.7	262.9	376.5	310.8	354.6	356.6	476.1	595.6	617.5	625.5	639.4
70°	231.1	175.3	278.9	276.9	318.7	322.7	414.3	517.9	537.8	543.8	551.8
72.5°	169.3	141.4	231.1	249.0	280.9	284.9	350.6	430.3	450.2	456.2	460.2
75°	129.5	149.4	187.2	217.1	239.0	241.0	286.8	350.6	364.5	368.5	370.5
77.5°	103.6	139.4	137.4	175.3	195.2	191.2	225.1	270.9	282.9	282.9	282.9
80°	77.7	109.6	103.6	125.5	143.4	139.4	161.4	193.2	197.2	201.2	199.2
82.5°	57.8	69.7	69.7	79.7	95.6	91.6	107.6	125.5	125.5	125.5	129.5
85°	35.9	39.8	31.9	41.8	53.8	51.8	59.8	67.7	69.7	69.7	65.7
87.5°	21.9	17.9	10.0	15.9	23.9	23.9	27.9	29.9	27.9	27.9	27.9
90°	5.2	3.6	2.0	3.6	5.2	5.6	8.8	13.0	15.1	13.4	10.1
92.5°	35.2	21.5	8.0	21.5	35.2	38.5	54.2	75.0	85.4	74.8	53.8
95°	68.8	43.9	19.1	43.9	68.8	75.0	133.2	210.8	249.6	222.7	169.0
97.5°	76.9	55.1	33.2	55.1	76.9	82.4	179.4	308.8	373.5	356.6	322.6
100°	83.6	63.7	43.9	63.7	83.6	88.5	196.2	339.7	411.5	412.8	415.3
102.5°	90.1	71.6	53.1	71.6	90.1	94.7	204.0	349.6	422.4	444.0	487.2
105°	100.1	84.4	68.6	84.4	100.1	104.0	209.8	350.7	421.2	469.7	566.7
107.5°	113.8	99.2	84.6	99.2	113.8	117.5	210.8	335.1	397.2	464.8	600.2
110°	121.8	108.6	95.4	108.6	121.8	125.1	209.2	321.2	377.3	452.9	604.2



TEST NUMBER: P933992

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	131.1	118.5	106.0	118.5	131.1	134.3	209.3	309.2	359.2	436.5	591.3
115°	145.1	133.5	121.9	133.5	145.1	148.0	211.2	295.3	337.3	411.9	561.1
117.5°	158.8	148.2	137.6	148.2	158.8	161.5	215.1	286.6	322.4	389.7	524.3
120°	166.7	156.8	146.8	156.8	166.7	169.2	218.3	283.8	316.4	377.9	500.9
122.5°	175.9	165.8	155.8	165.8	175.9	178.4	222.9	282.2	311.8	367.2	478.0
125°	187.8	178.8	169.6	178.8	187.8	190.1	229.1	281.0	306.9	353.9	448.0
127.5°	199.2	189.9	180.8	189.9	199.2	201.5	235.3	280.2	302.7	343.1	423.9
130°	206.6	196.7	186.8	196.7	206.6	209.1	239.7	280.7	301.1	337.0	409.0
132.5°	212.7	202.9	192.9	202.9	212.7	215.2	243.4	281.0	299.7	331.9	396.2
135°	220.2	211.2	202.1	211.2	220.2	222.5	247.4	280.7	297.3	324.3	378.2
137.5°	229.4	220.4	211.5	220.4	229.4	231.7	253.4	282.4	296.9	319.7	365.2
140°	235.8	227.5	219.2	227.5	235.8	237.8	257.1	282.7	295.5	315.2	354.6
142.5°	240.5	232.9	225.3	232.9	240.5	242.4	260.2	283.8	295.5	312.8	347.4
145°	247.7	241.1	234.5	241.1	247.7	249.4	264.1	283.8	293.5	307.7	336.0
147.5°	256.6	250.1	243.6	250.1	256.6	258.2	269.9	285.7	293.5	304.7	326.9
150°	261.3	255.5	249.6	255.5	261.3	262.7	273.0	286.6	293.5	302.9	321.7
152.5°	264.6	260.2	255.8	260.2	264.6	265.7	275.0	287.3	293.5	301.5	317.5
155°	271.5	268.2	264.9	268.2	271.5	272.3	279.4	288.8	293.5	299.9	312.6
157.5°	278.1	274.9	271.7	274.9	278.1	278.9	283.8	290.2	293.5	298.5	308.4
160°	281.3	278.8	276.3	278.8	281.3	281.9	285.8	290.9	293.5	297.8	306.3
162.5°	284.6	282.8	280.9	282.8	284.6	285.1	287.8	291.6	293.5	297.1	304.3
165°	289.3	287.6	286.0	287.6	289.3	289.7	291.0	292.7	293.5	296.1	301.2
167.5°	292.1	291.3	290.5	291.3	292.1	292.3	293.4	294.8	295.5	297.2	300.6
170°	295.1	294.3	293.5	294.3	295.1	295.3	295.4	295.5	295.5	297.2	300.6
172.5°	295.5	295.3	295.1	295.3	295.5	295.5	295.5	295.5	295.5	296.8	299.5
175°	297.3	297.3	297.3	297.3	297.3	297.3	296.7	295.9	295.5	296.3	298.0
177.5°	297.3	297.3	297.3	297.3	297.3	297.3	296.8	296.2	295.9	296.6	297.9
180°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3



TEST NUMBER: P933992

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4
2.5°	2031.7	2025.8	2033.7	2011.8	2033.7	2025.8	2031.7	2045.7	2033.7	2041.7	2049.7
5°	1782.7	1772.8	1740.9	1715.0	1740.9	1772.8	1782.7	1824.6	1844.5	1880.3	1928.2
7.5°	1593.5	1585.5	1577.6	1561.6	1577.6	1585.5	1593.5	1605.5	1625.4	1657.2	1693.1
10°	1551.7	1553.7	1565.6	1563.6	1565.6	1553.7	1551.7	1547.7	1541.7	1547.7	1569.6
12.5°	1659.2	1677.2	1742.9	1738.9	1742.9	1677.2	1659.2	1579.6	1525.8	1515.8	1519.8
15°	1782.7	1788.7	1802.7	1804.7	1802.7	1788.7	1782.7	1750.9	1589.5	1519.8	1497.9
17.5°	1794.7	1796.7	1806.6	1806.6	1806.6	1796.7	1794.7	1780.7	1727.0	1633.3	1509.8
20°	1784.7	1788.7	1808.6	1812.6	1808.6	1788.7	1784.7	1766.8	1736.9	1703.1	1609.4
22.5°	1780.7	1788.7	1804.7	1802.7	1804.7	1788.7	1780.7	1752.9	1727.0	1703.1	1665.2
25°	1760.8	1760.8	1762.8	1764.8	1762.8	1760.8	1760.8	1738.9	1687.1	1681.1	1659.2
27.5°	1719.0	1723.0	1734.9	1732.9	1734.9	1723.0	1719.0	1711.0	1655.3	1649.3	1633.3
30°	1681.1	1677.2	1667.2	1659.2	1667.2	1677.2	1681.1	1669.2	1613.4	1597.5	1601.5
32.5°	1617.4	1607.4	1597.5	1591.5	1597.5	1607.4	1617.4	1613.4	1571.6	1549.7	1553.7
35°	1541.7	1543.7	1541.7	1535.7	1541.7	1543.7	1541.7	1545.7	1519.8	1499.9	1497.9
37.5°	1487.9	1491.9	1489.9	1481.9	1489.9	1491.9	1487.9	1483.9	1448.1	1442.1	1446.1
40°	1432.1	1434.1	1432.1	1426.2	1432.1	1434.1	1432.1	1424.2	1374.4	1376.4	1390.3
42.5°	1378.4	1376.4	1370.4	1366.4	1370.4	1376.4	1378.4	1366.4	1302.7	1296.7	1322.6
45°	1316.6	1318.6	1306.7	1300.7	1306.7	1318.6	1316.6	1308.6	1242.9	1227.0	1244.9
47.5°	1254.9	1254.9	1244.9	1238.9	1244.9	1254.9	1254.9	1244.9	1175.3	1159.3	1169.3
50°	1189.1	1187.2	1173.3	1171.3	1173.3	1187.2	1189.1	1183.2	1109.5	1095.6	1095.6
52.5°	1113.5	1113.5	1115.5	1119.5	1115.5	1113.5	1113.5	1115.5	1049.8	1035.8	1031.9
55°	1047.8	1049.8	1063.7	1067.7	1063.7	1049.8	1047.8	1047.8	988.0	974.1	966.1
57.5°	980.1	980.1	990.0	990.0	990.0	980.1	980.1	976.1	918.3	906.4	902.4
60°	902.4	906.4	914.3	912.3	914.3	906.4	902.4	898.4	848.6	840.6	826.7
62.5°	820.7	824.7	826.7	822.7	826.7	824.7	820.7	808.8	778.9	772.9	755.0
65°	735.0	739.0	741.0	737.0	741.0	739.0	735.0	729.1	707.2	697.2	681.3
67.5°	647.4	645.4	643.4	651.4	643.4	645.4	647.4	639.4	625.5	617.5	595.6
70°	557.8	557.8	555.8	559.8	555.8	557.8	557.8	551.8	543.8	537.8	517.9
72.5°	462.1	460.2	468.1	462.1	468.1	460.2	462.1	460.2	456.2	450.2	430.3
75°	368.5	372.5	368.5	374.5	368.5	372.5	368.5	370.5	368.5	364.5	350.6
77.5°	280.9	284.9	280.9	280.9	280.9	284.9	280.9	282.9	282.9	282.9	270.9
80°	199.2	197.2	197.2	195.2	197.2	197.2	199.2	199.2	201.2	197.2	193.2
82.5°	127.5	125.5	125.5	129.5	125.5	125.5	127.5	129.5	125.5	125.5	125.5
85°	69.7	71.7	67.7	67.7	67.7	71.7	69.7	65.7	69.7	69.7	67.7
87.5°	25.9	23.9	23.9	23.9	23.9	23.9	25.9	27.9	27.9	27.9	29.9
90°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	13.4	15.1	13.0
92.5°	37.9	36.5	30.4	24.3	30.4	36.5	37.9	53.8	74.8	85.4	75.0
95°	128.7	124.1	105.9	87.5	105.9	124.1	128.7	169.0	222.7	249.6	210.8
97.5°	297.1	288.4	253.6	218.8	253.6	288.4	297.1	322.6	356.6	373.5	308.8
100°	417.2	406.9	365.4	324.0	365.4	406.9	417.2	415.3	412.8	411.5	339.7
102.5°	519.7	510.8	475.4	439.9	475.4	510.8	519.7	487.2	444.0	422.4	349.6
105°	639.4	634.7	615.6	596.5	615.6	634.7	639.4	566.7	469.7	421.2	350.7
107.5°	701.7	702.9	707.5	712.0	707.5	702.9	701.7	600.2	464.8	397.2	335.1
110°	717.6	722.6	742.4	762.3	742.4	722.6	717.6	604.2	452.9	377.3	321.2



TEST NUMBER: P933992

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	707.5	715.1	745.6	776.1	745.6	715.1	707.5	591.3	436.5	359.2	309.2
115°	673.0	683.6	725.9	768.1	725.9	683.6	673.0	561.1	411.9	337.3	295.3
117.5°	625.3	637.0	684.0	730.9	684.0	637.0	625.3	524.3	389.7	322.4	286.6
120°	593.1	604.5	650.1	695.7	650.1	604.5	593.1	500.9	377.9	316.4	283.8
122.5°	561.0	572.3	617.2	662.1	617.2	572.3	561.0	478.0	367.2	311.8	282.2
125°	518.5	528.9	570.3	611.7	570.3	528.9	518.5	448.0	353.9	306.9	281.0
127.5°	484.5	493.2	528.1	563.0	528.1	493.2	484.5	423.9	343.1	302.7	280.2
130°	462.8	470.9	503.2	535.4	503.2	470.9	462.8	409.0	337.0	301.1	280.7
132.5°	444.5	451.8	480.7	509.6	480.7	451.8	444.5	396.2	331.9	299.7	281.0
135°	418.6	424.8	449.7	474.6	449.7	424.8	418.6	378.2	324.3	297.3	280.7
137.5°	399.4	404.5	424.9	445.3	424.9	404.5	399.4	365.2	319.7	296.9	282.4
140°	384.1	388.8	407.9	427.0	407.9	388.8	384.1	354.6	315.2	295.5	282.7
142.5°	373.3	377.4	393.8	410.2	393.8	377.4	373.3	347.4	312.8	295.5	283.8
145°	357.2	360.3	372.7	385.1	372.7	360.3	357.2	336.0	307.7	293.5	283.8
147.5°	343.5	346.1	356.4	366.7	356.4	346.1	343.5	326.9	304.7	293.5	285.7
150°	335.8	337.8	346.2	354.6	346.2	337.8	335.8	321.7	302.9	293.5	286.6
152.5°	329.6	331.2	337.4	343.7	337.4	331.2	329.6	317.5	301.5	293.5	287.3
155°	322.2	323.2	327.4	331.6	327.4	323.2	322.2	312.6	299.9	293.5	288.8
157.5°	315.8	316.5	319.5	322.4	319.5	316.5	315.8	308.4	298.5	293.5	290.2
160°	312.6	313.0	314.7	316.4	314.7	313.0	312.6	306.3	297.8	293.5	290.9
162.5°	309.7	310.1	311.6	313.2	311.6	310.1	309.7	304.3	297.1	293.5	291.6
165°	305.1	305.5	307.2	308.9	307.2	305.5	305.1	301.2	296.1	293.5	292.7
167.5°	303.1	303.3	304.0	304.7	304.0	303.3	303.1	300.6	297.2	295.5	294.8
170°	303.1	303.1	303.1	303.1	303.1	303.1	303.1	300.6	297.2	295.5	295.5
172.5°	301.5	301.3	300.7	300.1	300.7	301.3	301.5	299.5	296.8	295.5	295.5
175°	299.3	299.3	299.3	299.3	299.3	299.3	299.3	298.0	296.3	295.5	295.9
177.5°	298.9	298.7	298.0	297.3	298.0	298.7	298.9	297.9	296.6	295.9	296.2
180°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2105.4	2105.4	2105.4	2105.4	2105.4
2.5°	2079.5	2089.5	2095.5	2103.5	2123.4
5°	1999.9	2037.7	2049.7	2079.5	2115.4
7.5°	1824.6	1940.1	1972.0	2043.7	2099.5
10°	1655.3	1770.8	1826.6	1995.9	2079.5
12.5°	1569.6	1637.3	1675.2	1912.2	2051.7
15°	1515.8	1563.6	1591.5	1800.7	2019.8
17.5°	1474.0	1507.8	1527.8	1691.1	1976.0
20°	1448.1	1464.0	1481.9	1611.4	1926.2
22.5°	1430.2	1420.2	1434.1	1555.7	1858.4
25°	1418.2	1380.4	1396.3	1511.8	1778.8
27.5°	1428.2	1344.5	1350.5	1472.0	1695.1
30°	1430.2	1300.7	1302.7	1430.2	1601.5
32.5°	1416.2	1254.9	1256.9	1378.4	1495.9
35°	1382.3	1201.1	1199.1	1318.6	1352.5
37.5°	1336.5	1143.4	1143.4	1252.9	1195.1
40°	1280.8	1085.6	1091.6	1167.3	1055.8
42.5°	1213.0	1023.9	1031.9	1053.8	952.2
45°	1139.4	964.1	970.1	890.4	872.5
47.5°	1057.8	902.4	904.4	739.0	846.6
50°	960.1	838.6	830.7	633.5	844.6
52.5°	874.5	768.9	745.0	573.7	766.9
55°	790.8	695.2	643.4	527.9	711.1
57.5°	717.1	599.6	549.8	474.1	699.2
60°	649.4	506.0	468.1	416.3	641.4
62.5°	593.6	436.2	428.3	376.5	581.7
65°	533.9	388.4	386.4	342.6	494.0
67.5°	476.1	356.6	354.6	310.8	376.5
70°	414.3	322.7	318.7	276.9	278.9
72.5°	350.6	284.9	280.9	249.0	231.1
75°	286.8	241.0	239.0	217.1	187.2
77.5°	225.1	191.2	195.2	175.3	137.4
80°	161.4	139.4	143.4	125.5	103.6
82.5°	107.6	91.6	95.6	79.7	69.7
85°	59.8	51.8	53.8	41.8	31.9
87.5°	27.9	23.9	23.9	15.9	10.0
90°	8.8	5.6	5.2	3.6	2.0
92.5°	54.2	38.5	35.2	21.5	8.0
95°	133.2	75.0	68.8	43.9	19.1
97.5°	179.4	82.4	76.9	55.1	33.2
100°	196.2	88.5	83.6	63.7	43.9
102.5°	204.0	94.7	90.1	71.6	53.1
105°	209.8	104.0	100.1	84.4	68.6
107.5°	210.8	117.5	113.8	99.2	84.6
110°	209.2	125.1	121.8	108.6	95.4



TEST NUMBER: P933992

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	209.3	134.3	131.1	118.5	106.0
115°	211.2	148.0	145.1	133.5	121.9
117.5°	215.1	161.5	158.8	148.2	137.6
120°	218.3	169.2	166.7	156.8	146.8
122.5°	222.9	178.4	175.9	165.8	155.8
125°	229.1	190.1	187.8	178.8	169.6
127.5°	235.3	201.5	199.2	189.9	180.8
130°	239.7	209.1	206.6	196.7	186.8
132.5°	243.4	215.2	212.7	202.9	192.9
135°	247.4	222.5	220.2	211.2	202.1
137.5°	253.4	231.7	229.4	220.4	211.5
140°	257.1	237.8	235.8	227.5	219.2
142.5°	260.2	242.4	240.5	232.9	225.3
145°	264.1	249.4	247.7	241.1	234.5
147.5°	269.9	258.2	256.6	250.1	243.6
150°	273.0	262.7	261.3	255.5	249.6
152.5°	275.0	265.7	264.6	260.2	255.8
155°	279.4	272.3	271.5	268.2	264.9
157.5°	283.8	278.9	278.1	274.9	271.7
160°	285.8	281.9	281.3	278.8	276.3
162.5°	287.8	285.1	284.6	282.8	280.9
165°	291.0	289.7	289.3	287.6	286.0
167.5°	293.4	292.3	292.1	291.3	290.5
170°	295.4	295.3	295.1	294.3	293.5
172.5°	295.5	295.5	295.5	295.3	295.1
175°	296.7	297.3	297.3	297.3	297.3
177.5°	296.8	297.3	297.3	297.3	297.3
180°	297.3	297.3	297.3	297.3	297.3



TEST NUMBER: P933992

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-8-2700K

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	14.69	15.82	15.41	16.56	17.44	17.53	18.66	18.25	19.40	20.28
	3H	15.19	16.20	15.92	16.95	17.87	18.90	19.91	19.63	20.66	21.57
	4H	15.39	16.35	16.14	17.11	18.03	19.35	20.31	20.11	21.07	22.00
	6H	15.52	16.40	16.29	17.17	18.12	19.65	20.54	20.42	21.31	22.25
	8H	15.53	16.37	16.31	17.16	18.10	19.74	20.58	20.51	21.37	22.31
	12H	15.51	16.31	16.29	17.10	18.07	19.79	20.59	20.57	21.37	22.34
4H	2H	15.76	16.71	16.51	17.47	18.40	17.97	18.92	18.73	19.69	20.61
	3H	16.81	17.60	17.58	18.40	19.35	19.50	20.30	20.27	21.09	22.04
	4H	17.10	17.82	17.88	18.62	19.59	20.04	20.77	20.83	21.56	22.54
	6H	17.24	17.86	18.04	18.68	19.66	20.43	21.05	21.23	21.87	22.85
	8H	17.25	17.83	18.05	18.65	19.64	20.54	21.12	21.34	21.94	22.93
	12H	17.23	17.75	18.05	18.59	19.59	20.61	21.14	21.44	21.97	22.97
8H	4H	17.57	18.16	18.38	18.97	19.97	20.19	20.77	20.99	21.59	22.58
	6H	17.84	18.33	18.68	19.19	20.18	20.64	21.12	21.47	21.98	22.97
	8H	17.89	18.32	18.74	19.18	20.19	20.79	21.22	21.64	22.08	23.09
	12H	17.89	18.27	18.73	19.11	20.18	20.91	21.29	21.75	22.13	23.20
12H	4H	17.59	18.12	18.42	18.96	19.95	20.17	20.69	20.99	21.53	22.53
	6H	17.91	18.34	18.75	19.20	20.20	20.64	21.07	21.48	21.92	22.93
	8H	17.99	18.37	18.84	19.21	20.28	20.81	21.19	21.66	22.04	23.10