

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: P933948

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-6500K

Issue Date: 12/17/2024

**Test Information**

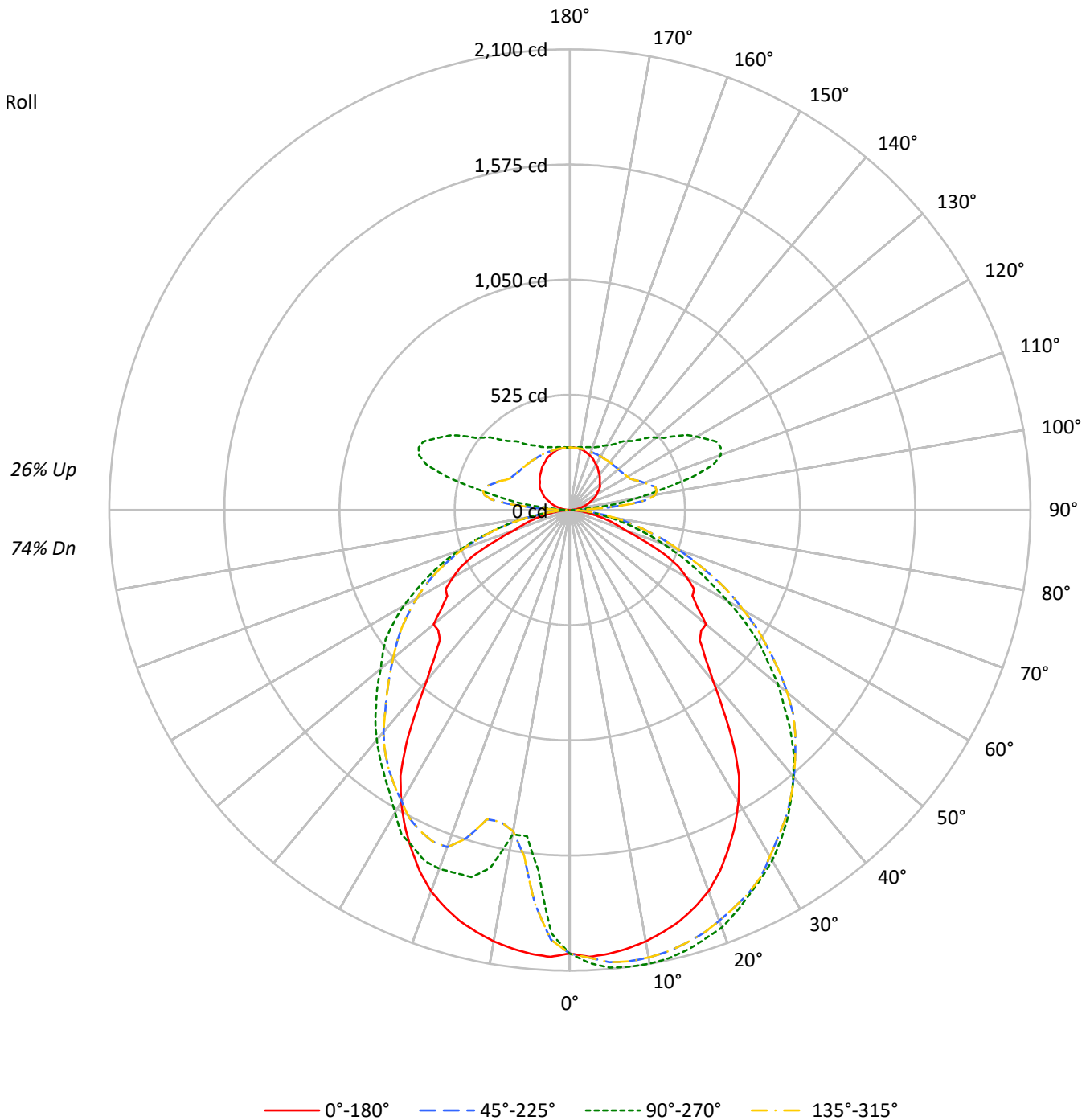
Test Method: LM-79-2019  
Report Number: P933948  
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-6500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7092.1 lumens  
Efficiency: N/A  
Efficacy: 118.2 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	0
RCR																					
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9378	9378	9378	9378
5°	9448	9467	9448	7444
10°	9385	9325	9385	6667
15°	9283	9123	9283	7618
20°	9089	8884	9089	7634
25°	8691	8534	8691	7472
30°	8178	8245	8178	7117
35°	7290	7878	7290	6727
40°	6075	7447	6075	6432
45°	5428	6941	5428	6092
50°	5767	6339	5767	5753
55°	5425	5690	5425	5555
60°	5593	4833	5593	5089
65°	5071	3995	5071	4466
70°	3511	3184	3511	3743
75°	3079	2353	3079	2818
80°	2480	1556	2480	1694
85°	1425	824	1425	700

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8319 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.5	2.6
10°-20°	518.0	7.3
20°-30°	800.8	11.3
30°-40°	956.0	13.5
40°-50°	961.6	13.6
50°-60°	836.7	11.8
60°-70°	593.3	8.4
70°-80°	313.9	4.4
80°-90°	79.3	1.1
90°-100°	139.1	2.0
100°-110°	365.7	5.2
110°-120°	379.2	5.3
120°-130°	304.2	4.3
130°-140°	238.7	3.4
140°-150°	183.2	2.6
150°-160°	131.9	1.9
160°-170°	80.7	1.1
170°-180°	27.3	0.4
0°-30°	1501.3	21.2
0°-40°	2457.3	34.6
0°-60°	4255.6	60.0
0°-90°	5242.0	73.9
90°-120°	884.1	12.5
90°-150°	1610.2	22.7
90°-180°	1850.0	26.1
0°-180°	7092.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2021	2021	2021	2021	2021	
5°	2031	2094	2031	1646	2031	193
15°	1939	2075	1939	1732	1939	546
25°	1708	1935	1708	1694	1708	784
35°	1298	1727	1298	1474	1298	803
45°	838	1423	838	1249	838	671
55°	683	1050	683	1025	683	627
65°	474	633	474	708	474	453
75°	180	300	180	360	180	189
85°	31	76	31	65	31	41
90°	2	7	2	7	2	3
95°	18	84	18	84	18	20
105°	66	573	66	573	66	70
115°	117	737	117	737	117	116
125°	163	587	163	587	163	145
135°	194	456	194	456	194	150
145°	225	370	225	370	225	141
155°	254	318	254	318	254	117
165°	274	296	274	296	274	77
175°	285	287	285	287	285	27
180°	285	285	285	285	285	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	2038.5	2038.5	2050.0	2053.8	2053.8	2048.1	2042.3	2048.1	2065.3	2071.0	2069.1
5°	2030.9	2046.2	2067.2	2071.0	2074.8	2072.9	2069.1	2072.9	2092.1	2095.9	2097.8
7.5°	2015.6	2044.2	2071.0	2076.8	2082.5	2076.8	2074.8	2078.7	2097.8	2101.6	2101.6
10°	1996.4	2036.6	2067.2	2071.0	2076.8	2071.0	2071.0	2078.7	2097.8	2101.6	2103.5
12.5°	1969.7	2025.1	2053.8	2057.6	2065.3	2063.4	2061.5	2069.1	2088.2	2092.1	2092.1
15°	1939.1	2004.1	2030.9	2034.7	2048.1	2044.2	2044.2	2051.9	2072.9	2078.7	2076.8
17.5°	1897.0	1977.3	2007.9	2013.6	2023.2	2021.3	2023.2	2030.9	2050.0	2053.8	2055.7
20°	1849.2	1941.0	1977.3	1983.0	1992.6	1992.6	1992.6	2002.2	2021.3	2028.9	2028.9
22.5°	1784.2	1902.7	1941.0	1944.8	1956.3	1956.3	1960.1	1973.5	1990.7	1992.6	1992.6
25°	1707.7	1860.7	1893.2	1904.6	1916.1	1921.9	1927.6	1935.2	1941.0	1939.1	1941.0
27.5°	1627.3	1807.1	1849.2	1856.8	1872.1	1877.9	1885.5	1887.4	1889.3	1895.1	1891.3
30°	1537.5	1732.5	1795.6	1803.3	1828.1	1832.0	1824.3	1828.1	1837.7	1841.5	1845.4
32.5°	1436.1	1621.6	1740.2	1757.4	1780.3	1768.9	1766.9	1772.7	1788.0	1788.0	1791.8
35°	1298.4	1535.6	1688.5	1703.8	1721.1	1707.7	1715.3	1717.2	1726.8	1732.5	1730.6
37.5°	1147.3	1461.0	1635.0	1646.5	1659.9	1642.6	1654.1	1659.9	1667.5	1663.7	1663.7
40°	1013.6	1344.3	1571.9	1579.5	1591.0	1577.6	1589.1	1592.9	1596.7	1592.9	1591.0
42.5°	914.1	1216.2	1505.0	1514.5	1506.9	1516.4	1520.3	1527.9	1522.2	1514.5	1514.5
45°	837.6	1181.8	1432.3	1443.8	1432.3	1447.6	1453.3	1453.3	1436.1	1432.3	1430.4
47.5°	812.8	1113.0	1359.6	1359.6	1353.9	1373.0	1382.6	1369.2	1352.0	1346.2	1346.2
50°	810.9	1036.5	1260.2	1252.5	1279.3	1302.2	1292.7	1279.3	1265.9	1244.9	1244.9
52.5°	736.3	942.8	1132.1	1160.7	1202.8	1216.2	1200.9	1187.5	1164.5	1155.0	1147.3
55°	682.7	845.3	1015.5	1072.8	1116.8	1134.0	1105.4	1092.0	1057.5	1051.8	1048.0
57.5°	671.2	703.8	908.4	981.1	1034.6	1032.7	1015.5	990.6	961.9	956.2	954.3
60°	615.8	508.7	793.6	879.7	935.2	929.4	914.1	891.2	864.4	860.6	856.7
62.5°	558.4	369.1	663.6	761.1	839.5	837.6	824.2	789.8	770.7	761.1	753.5
65°	474.3	309.8	472.4	633.0	745.8	749.7	721.0	696.1	675.1	663.6	661.7
67.5°	361.4	252.4	319.4	527.8	655.9	652.1	615.8	604.3	577.5	571.8	560.3
70°	267.7	168.3	221.8	428.4	568.0	558.4	529.7	516.3	491.5	478.1	470.4
72.5°	221.8	135.8	162.6	332.8	478.1	466.6	441.8	426.5	405.4	394.0	386.3
75°	179.8	143.4	124.3	246.7	388.2	380.6	357.6	342.3	325.1	309.8	311.7
77.5°	132.0	133.9	99.4	181.7	307.9	296.4	283.0	263.9	256.3	241.0	241.0
80°	99.4	105.2	74.6	124.3	221.8	221.8	210.4	197.0	183.6	175.9	175.9
82.5°	66.9	66.9	55.5	78.4	151.1	145.3	137.7	133.9	126.2	122.4	122.4
85°	30.6	38.2	34.4	47.8	82.2	86.1	86.1	82.2	80.3	76.5	78.4
87.5°	9.6	17.2	21.0	26.8	42.1	44.0	45.9	45.9	45.9	47.8	47.8
90°	1.9	3.4	5.0	5.4	8.4	12.5	14.5	12.9	9.7	7.3	7.3
92.5°	7.6	20.7	33.8	37.0	52.0	72.0	81.9	71.8	51.6	36.4	35.0
95°	18.4	42.2	66.1	72.0	127.8	202.3	239.6	213.8	162.3	123.5	119.1
97.5°	31.8	52.9	73.8	79.1	172.2	296.4	358.6	342.3	309.7	285.2	276.9
100°	42.2	61.2	80.2	85.0	188.4	326.2	395.1	396.3	398.7	400.5	390.6
102.5°	51.0	68.8	86.5	90.9	195.8	335.6	405.5	426.3	467.8	498.9	490.4
105°	65.9	81.0	96.1	99.8	201.4	336.7	404.4	450.9	544.1	613.9	609.3
107.5°	81.2	95.2	109.3	112.8	202.3	321.7	381.3	446.3	576.2	673.6	674.8
110°	91.6	104.2	116.9	120.1	200.8	308.4	362.2	434.8	580.0	688.9	693.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	101.7	113.8	125.8	128.9	200.9	296.8	344.8	419.1	567.7	679.2	686.5
115°	117.0	128.1	139.3	142.1	202.7	283.5	323.9	395.5	538.7	646.1	656.2
117.5°	132.1	142.3	152.4	155.0	206.5	275.2	309.5	374.2	503.3	600.3	611.6
120°	140.9	150.5	160.1	162.5	209.6	272.4	303.8	362.8	480.9	569.4	580.3
122.5°	149.5	159.2	168.9	171.3	214.0	270.9	299.4	352.5	458.9	538.6	549.4
125°	162.8	171.6	180.3	182.5	219.9	269.7	294.6	339.7	430.1	497.8	507.7
127.5°	173.5	182.3	191.2	193.4	225.9	269.0	290.6	329.4	407.0	465.1	473.5
130°	179.3	188.8	198.3	200.7	230.2	269.5	289.1	323.6	392.6	444.3	452.1
132.5°	185.2	194.8	204.2	206.6	233.7	269.7	287.7	318.6	380.4	426.7	433.7
135°	194.0	202.7	211.4	213.6	237.5	269.5	285.4	311.3	363.1	401.9	407.8
137.5°	203.0	211.6	220.2	222.4	243.3	271.1	285.0	306.9	350.6	383.4	388.3
140°	210.5	218.4	226.3	228.3	246.8	271.4	283.7	302.6	340.4	368.7	373.3
142.5°	216.3	223.6	230.9	232.7	249.8	272.4	283.7	300.3	333.5	358.4	362.3
145°	225.1	231.5	237.8	239.4	253.6	272.4	281.8	295.4	322.5	342.9	345.9
147.5°	233.9	240.1	246.3	247.8	259.1	274.2	281.8	292.5	313.8	329.8	332.3
150°	239.6	245.3	250.8	252.2	262.1	275.2	281.8	290.8	308.9	322.3	324.3
152.5°	245.6	249.8	254.1	255.1	264.0	275.9	281.8	289.4	304.8	316.4	317.9
155°	254.3	257.5	260.7	261.4	268.2	277.3	281.8	287.9	300.1	309.3	310.3
157.5°	260.8	263.9	267.0	267.7	272.4	278.6	281.8	286.6	296.0	303.2	303.9
160°	265.2	267.6	270.0	270.6	274.3	279.3	281.8	285.9	294.0	300.1	300.5
162.5°	269.6	271.5	273.2	273.7	276.3	280.0	281.8	285.2	292.1	297.3	297.7
165°	274.5	276.1	277.8	278.2	279.4	281.0	281.8	284.3	289.2	292.9	293.3
167.5°	278.9	279.7	280.5	280.6	281.7	283.0	283.7	285.3	288.6	291.0	291.2
170°	281.8	282.6	283.3	283.5	283.6	283.7	283.7	285.3	288.6	291.0	291.0
172.5°	283.3	283.5	283.7	283.7	283.7	283.7	283.7	284.9	287.5	289.4	289.2
175°	285.4	285.4	285.4	285.4	284.8	284.1	283.7	284.5	286.1	287.3	287.3
177.5°	285.4	285.4	285.4	285.4	284.9	284.4	284.1	284.8	286.0	287.0	286.8
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	2072.9	2067.2	2072.9	2069.1	2071.0	2065.3	2048.1	2042.3	2048.1	2053.8	2053.8
5°	2097.8	2094.0	2097.8	2097.8	2095.9	2092.1	2072.9	2069.1	2072.9	2074.8	2071.0
7.5°	2105.4	2099.7	2105.4	2101.6	2101.6	2097.8	2078.7	2074.8	2076.8	2082.5	2076.8
10°	2105.4	2099.7	2105.4	2103.5	2101.6	2097.8	2078.7	2071.0	2071.0	2076.8	2071.0
12.5°	2095.9	2092.1	2095.9	2092.1	2092.1	2088.2	2069.1	2061.5	2063.4	2065.3	2057.6
15°	2080.6	2074.8	2080.6	2076.8	2078.7	2072.9	2051.9	2044.2	2044.2	2048.1	2034.7
17.5°	2057.6	2050.0	2057.6	2055.7	2053.8	2050.0	2030.9	2023.2	2021.3	2023.2	2013.6
20°	2030.9	2025.1	2030.9	2028.9	2028.9	2021.3	2002.2	1992.6	1992.6	1992.6	1983.0
22.5°	1988.8	1983.0	1988.8	1992.6	1992.6	1990.7	1973.5	1960.1	1956.3	1956.3	1944.8
25°	1941.0	1935.2	1941.0	1941.0	1939.1	1941.0	1935.2	1927.6	1921.9	1916.1	1904.6
27.5°	1895.1	1891.3	1895.1	1891.3	1895.1	1889.3	1887.4	1885.5	1877.9	1872.1	1856.8
30°	1849.2	1845.4	1849.2	1845.4	1841.5	1837.7	1828.1	1824.3	1832.0	1828.1	1803.3
32.5°	1791.8	1788.0	1791.8	1791.8	1788.0	1788.0	1772.7	1766.9	1768.9	1780.3	1757.4
35°	1732.5	1726.8	1732.5	1730.6	1732.5	1726.8	1717.2	1715.3	1707.7	1721.1	1703.8
37.5°	1663.7	1657.9	1663.7	1663.7	1663.7	1667.5	1659.9	1654.1	1642.6	1659.9	1646.5
40°	1592.9	1585.3	1592.9	1591.0	1592.9	1596.7	1592.9	1589.1	1577.6	1591.0	1579.5
42.5°	1512.6	1510.7	1512.6	1514.5	1514.5	1522.2	1527.9	1520.3	1516.4	1506.9	1514.5
45°	1426.5	1422.7	1426.5	1430.4	1432.3	1436.1	1453.3	1453.3	1447.6	1432.3	1443.8
47.5°	1334.7	1325.2	1334.7	1346.2	1346.2	1352.0	1369.2	1382.6	1373.0	1353.9	1359.6
50°	1237.2	1239.1	1237.2	1244.9	1244.9	1265.9	1279.3	1292.7	1302.2	1279.3	1252.5
52.5°	1141.6	1139.8	1141.6	1147.3	1155.0	1164.5	1187.5	1200.9	1216.2	1202.8	1160.7
55°	1046.1	1049.9	1046.1	1048.0	1051.8	1057.5	1092.0	1105.4	1134.0	1116.8	1072.8
57.5°	950.5	944.7	950.5	954.3	956.2	961.9	990.6	1015.5	1032.7	1034.6	981.1
60°	839.5	831.9	839.5	856.7	860.6	864.4	891.2	914.1	929.4	935.2	879.7
62.5°	742.0	728.6	742.0	753.5	761.1	770.7	789.8	824.2	837.6	839.5	761.1
65°	638.7	633.0	638.7	661.7	663.6	675.1	696.1	721.0	749.7	745.8	633.0
67.5°	545.0	545.0	545.0	560.3	571.8	577.5	604.3	615.8	652.1	655.9	527.8
70°	459.0	457.1	459.0	470.4	478.1	491.5	516.3	529.7	558.4	568.0	428.4
72.5°	376.7	374.8	376.7	386.3	394.0	405.4	426.5	441.8	466.6	478.1	332.8
75°	304.1	300.2	304.1	311.7	309.8	325.1	342.3	357.6	380.6	388.2	246.7
77.5°	233.3	233.3	233.3	241.0	241.0	256.3	263.9	283.0	296.4	307.9	181.7
80°	174.0	172.1	174.0	175.9	175.9	183.6	197.0	210.4	221.8	221.8	124.3
82.5°	122.4	118.6	122.4	122.4	122.4	126.2	133.9	137.7	145.3	151.1	78.4
85°	76.5	76.5	76.5	78.4	76.5	80.3	82.2	86.1	86.1	82.2	47.8
87.5°	49.7	47.8	49.7	47.8	47.8	45.9	45.9	45.9	44.0	42.1	26.8
90°	7.3	7.3	7.3	7.3	7.3	9.7	12.9	14.5	12.5	8.4	5.4
92.5°	29.2	23.3	29.2	35.0	36.4	51.6	71.8	81.9	72.0	52.0	37.0
95°	101.6	84.0	101.6	119.1	123.5	162.3	213.8	239.6	202.3	127.8	72.0
97.5°	243.4	210.1	243.4	276.9	285.2	309.7	342.3	358.6	296.4	172.2	79.1
100°	350.8	311.0	350.8	390.6	400.5	398.7	396.3	395.1	326.2	188.4	85.0
102.5°	456.4	422.4	456.4	490.4	498.9	467.8	426.3	405.5	335.6	195.8	90.9
105°	591.0	572.7	591.0	609.3	613.9	544.1	450.9	404.4	336.7	201.4	99.8
107.5°	679.2	683.6	679.2	674.8	673.6	576.2	446.3	381.3	321.7	202.3	112.8
110°	712.7	731.9	712.7	693.7	688.9	580.0	434.8	362.2	308.4	200.8	120.1





TEST NUMBER: P933948

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	715.8	745.1	715.8	686.5	679.2	567.7	419.1	344.8	296.8	200.9	128.9
115°	696.9	737.4	696.9	656.2	646.1	538.7	395.5	323.9	283.5	202.7	142.1
117.5°	656.6	701.7	656.6	611.6	600.3	503.3	374.2	309.5	275.2	206.5	155.0
120°	624.1	667.9	624.1	580.3	569.4	480.9	362.8	303.8	272.4	209.6	162.5
122.5°	592.6	635.7	592.6	549.4	538.6	458.9	352.5	299.4	270.9	214.0	171.3
125°	547.5	587.3	547.5	507.7	497.8	430.1	339.7	294.6	269.7	219.9	182.5
127.5°	507.0	540.5	507.0	473.5	465.1	407.0	329.4	290.6	269.0	225.9	193.4
130°	483.1	514.0	483.1	452.1	444.3	392.6	323.6	289.1	269.5	230.2	200.7
132.5°	461.5	489.2	461.5	433.7	426.7	380.4	318.6	287.7	269.7	233.7	206.6
135°	431.7	455.6	431.7	407.8	401.9	363.1	311.3	285.4	269.5	237.5	213.6
137.5°	407.9	427.5	407.9	388.3	383.4	350.6	306.9	285.0	271.1	243.3	222.4
140°	391.6	409.9	391.6	373.3	368.7	340.4	302.6	283.7	271.4	246.8	228.3
142.5°	378.1	393.8	378.1	362.3	358.4	333.5	300.3	283.7	272.4	249.8	232.7
145°	357.8	369.7	357.8	345.9	342.9	322.5	295.4	281.8	272.4	253.6	239.4
147.5°	342.1	352.1	342.1	332.3	329.8	313.8	292.5	281.8	274.2	259.1	247.8
150°	332.4	340.4	332.4	324.3	322.3	308.9	290.8	281.8	275.2	262.1	252.2
152.5°	324.0	330.0	324.0	317.9	316.4	304.8	289.4	281.8	275.9	264.0	255.1
155°	314.3	318.3	314.3	310.3	309.3	300.1	287.9	281.8	277.3	268.2	261.4
157.5°	306.7	309.5	306.7	303.9	303.2	296.0	286.6	281.8	278.6	272.4	267.7
160°	302.2	303.8	302.2	300.5	300.1	294.0	285.9	281.8	279.3	274.3	270.6
162.5°	299.2	300.7	299.2	297.7	297.3	292.1	285.2	281.8	280.0	276.3	273.7
165°	294.9	296.5	294.9	293.3	292.9	289.2	284.3	281.8	281.0	279.4	278.2
167.5°	291.8	292.5	291.8	291.2	291.0	288.6	285.3	283.7	283.0	281.7	280.6
170°	291.0	291.0	291.0	291.0	291.0	288.6	285.3	283.7	283.7	283.6	283.5
172.5°	288.7	288.1	288.7	289.2	289.4	287.5	284.9	283.7	283.7	283.7	283.7
175°	287.3	287.3	287.3	287.3	287.3	286.1	284.5	283.7	284.1	284.8	285.4
177.5°	286.1	285.4	286.1	286.8	287.0	286.0	284.8	284.1	284.4	284.9	285.4
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



TEST NUMBER: P933948

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	2050.0	2038.5	2038.5	2019.4	2011.7	2006.0	1996.4	1967.7	1960.1	1952.5	1963.9
5°	2067.2	2046.2	2030.9	1996.4	1967.7	1956.3	1919.9	1851.1	1805.2	1770.8	1751.6
7.5°	2071.0	2044.2	2015.6	1962.0	1893.2	1862.6	1751.6	1625.4	1591.0	1560.4	1541.3
10°	2067.2	2036.6	1996.4	1916.1	1753.6	1700.0	1589.1	1506.9	1485.8	1480.1	1485.8
12.5°	2053.8	2025.1	1969.7	1835.8	1608.2	1571.9	1506.9	1459.1	1455.2	1464.8	1516.4
15°	2030.9	2004.1	1939.1	1728.7	1527.9	1501.1	1455.2	1438.0	1459.1	1526.0	1680.9
17.5°	2007.9	1977.3	1897.0	1623.5	1466.7	1447.6	1415.1	1449.5	1568.1	1657.9	1709.6
20°	1977.3	1941.0	1849.2	1547.0	1422.7	1405.5	1390.2	1545.1	1635.0	1667.5	1696.2
22.5°	1941.0	1902.7	1784.2	1493.5	1376.8	1363.4	1373.0	1598.7	1635.0	1657.9	1682.8
25°	1893.2	1860.7	1707.7	1451.4	1340.5	1325.2	1361.5	1592.9	1614.0	1619.7	1669.4
27.5°	1849.2	1807.1	1627.3	1413.2	1296.5	1290.8	1371.1	1568.1	1583.4	1589.1	1642.6
30°	1795.6	1732.5	1537.5	1373.0	1250.6	1248.7	1373.0	1537.5	1533.6	1548.9	1602.5
32.5°	1740.2	1621.6	1436.1	1323.3	1206.6	1204.7	1359.6	1491.6	1487.7	1508.8	1548.9
35°	1688.5	1535.6	1298.4	1265.9	1151.2	1153.1	1327.1	1438.0	1439.9	1459.1	1483.9
37.5°	1635.0	1461.0	1147.3	1202.8	1097.7	1097.7	1283.1	1388.3	1384.5	1390.2	1424.6
40°	1571.9	1344.3	1013.6	1120.7	1048.0	1042.3	1229.6	1334.7	1321.4	1319.5	1367.3
42.5°	1505.0	1216.2	914.1	1011.7	990.6	983.0	1164.5	1269.7	1244.9	1250.6	1311.8
45°	1432.3	1181.8	837.6	854.8	931.3	925.6	1093.9	1195.1	1177.9	1193.2	1256.3
47.5°	1359.6	1113.0	812.8	709.5	868.2	866.3	1015.5	1122.6	1113.0	1128.3	1195.1
50°	1260.2	1036.5	810.9	608.1	797.5	805.1	921.8	1051.8	1051.8	1065.2	1136.0
52.5°	1132.1	942.8	736.3	550.8	715.2	738.2	839.5	990.6	994.4	1007.8	1070.9
55°	1015.5	845.3	682.7	506.8	617.7	667.4	759.2	927.5	935.2	948.5	1005.9
57.5°	908.4	703.8	671.2	455.1	527.8	575.6	688.5	866.3	870.1	881.6	937.1
60°	793.6	508.7	615.8	399.7	449.4	485.7	623.4	793.6	807.0	814.7	862.5
62.5°	663.6	369.1	558.4	361.4	411.2	418.8	569.9	724.8	742.0	747.7	776.4
65°	472.4	309.8	474.3	328.9	371.0	372.9	512.5	654.0	669.3	678.9	699.9
67.5°	319.4	252.4	361.4	298.3	340.4	342.3	457.1	571.8	592.8	600.5	613.9
70°	221.8	168.3	267.7	265.8	306.0	309.8	397.8	497.2	516.3	522.1	529.7
72.5°	162.6	135.8	221.8	239.0	269.6	273.5	336.6	413.1	432.2	437.9	441.8
75°	124.3	143.4	179.8	208.5	229.5	231.4	275.4	336.6	350.0	353.8	355.7
77.5°	99.4	133.9	132.0	168.3	187.4	183.6	216.1	260.1	271.6	271.6	271.6
80°	74.6	105.2	99.4	120.5	137.7	133.9	154.9	185.5	189.3	193.2	191.2
82.5°	55.5	66.9	66.9	76.5	91.8	88.0	103.3	120.5	120.5	120.5	124.3
85°	34.4	38.2	30.6	40.2	51.6	49.7	57.4	65.0	66.9	66.9	63.1
87.5°	21.0	17.2	9.6	15.3	22.9	22.9	26.8	28.7	26.8	26.8	26.8
90°	5.0	3.4	1.9	3.4	5.0	5.4	8.4	12.5	14.5	12.9	9.7
92.5°	33.8	20.7	7.6	20.7	33.8	37.0	52.0	72.0	81.9	71.8	51.6
95°	66.1	42.2	18.4	42.2	66.1	72.0	127.8	202.3	239.6	213.8	162.3
97.5°	73.8	52.9	31.8	52.9	73.8	79.1	172.2	296.4	358.6	342.3	309.7
100°	80.2	61.2	42.2	61.2	80.2	85.0	188.4	326.2	395.1	396.3	398.7
102.5°	86.5	68.8	51.0	68.8	86.5	90.9	195.8	335.6	405.5	426.3	467.8
105°	96.1	81.0	65.9	81.0	96.1	99.8	201.4	336.7	404.4	450.9	544.1
107.5°	109.3	95.2	81.2	95.2	109.3	112.8	202.3	321.7	381.3	446.3	576.2
110°	116.9	104.2	91.6	104.2	116.9	120.1	200.8	308.4	362.2	434.8	580.0



TEST NUMBER: P933948

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	125.8	113.8	101.7	113.8	125.8	128.9	200.9	296.8	344.8	419.1	567.7
115°	139.3	128.1	117.0	128.1	139.3	142.1	202.7	283.5	323.9	395.5	538.7
117.5°	152.4	142.3	132.1	142.3	152.4	155.0	206.5	275.2	309.5	374.2	503.3
120°	160.1	150.5	140.9	150.5	160.1	162.5	209.6	272.4	303.8	362.8	480.9
122.5°	168.9	159.2	149.5	159.2	168.9	171.3	214.0	270.9	299.4	352.5	458.9
125°	180.3	171.6	162.8	171.6	180.3	182.5	219.9	269.7	294.6	339.7	430.1
127.5°	191.2	182.3	173.5	182.3	191.2	193.4	225.9	269.0	290.6	329.4	407.0
130°	198.3	188.8	179.3	188.8	198.3	200.7	230.2	269.5	289.1	323.6	392.6
132.5°	204.2	194.8	185.2	194.8	204.2	206.6	233.7	269.7	287.7	318.6	380.4
135°	211.4	202.7	194.0	202.7	211.4	213.6	237.5	269.5	285.4	311.3	363.1
137.5°	220.2	211.6	203.0	211.6	220.2	222.4	243.3	271.1	285.0	306.9	350.6
140°	226.3	218.4	210.5	218.4	226.3	228.3	246.8	271.4	283.7	302.6	340.4
142.5°	230.9	223.6	216.3	223.6	230.9	232.7	249.8	272.4	283.7	300.3	333.5
145°	237.8	231.5	225.1	231.5	237.8	239.4	253.6	272.4	281.8	295.4	322.5
147.5°	246.3	240.1	233.9	240.1	246.3	247.8	259.1	274.2	281.8	292.5	313.8
150°	250.8	245.3	239.6	245.3	250.8	252.2	262.1	275.2	281.8	290.8	308.9
152.5°	254.1	249.8	245.6	249.8	254.1	255.1	264.0	275.9	281.8	289.4	304.8
155°	260.7	257.5	254.3	257.5	260.7	261.4	268.2	277.3	281.8	287.9	300.1
157.5°	267.0	263.9	260.8	263.9	267.0	267.7	272.4	278.6	281.8	286.6	296.0
160°	270.0	267.6	265.2	267.6	270.0	270.6	274.3	279.3	281.8	285.9	294.0
162.5°	273.2	271.5	269.6	271.5	273.2	273.7	276.3	280.0	281.8	285.2	292.1
165°	277.8	276.1	274.5	276.1	277.8	278.2	279.4	281.0	281.8	284.3	289.2
167.5°	280.5	279.7	278.9	279.7	280.5	280.6	281.7	283.0	283.7	285.3	288.6
170°	283.3	282.6	281.8	282.6	283.3	283.5	283.6	283.7	283.7	285.3	288.6
172.5°	283.7	283.5	283.3	283.5	283.7	283.7	283.7	283.7	283.7	284.9	287.5
175°	285.4	285.4	285.4	285.4	285.4	285.4	284.8	284.1	283.7	284.5	286.1
177.5°	285.4	285.4	285.4	285.4	285.4	285.4	284.9	284.4	284.1	284.8	286.0
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



TEST NUMBER: P933948

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	1950.5	1944.8	1952.5	1931.4	1952.5	1944.8	1950.5	1963.9	1952.5	1960.1	1967.7
5°	1711.5	1701.9	1671.3	1646.5	1671.3	1701.9	1711.5	1751.6	1770.8	1805.2	1851.1
7.5°	1529.8	1522.2	1514.5	1499.2	1514.5	1522.2	1529.8	1541.3	1560.4	1591.0	1625.4
10°	1489.7	1491.6	1503.0	1501.1	1503.0	1491.6	1489.7	1485.8	1480.1	1485.8	1506.9
12.5°	1592.9	1610.1	1673.2	1669.4	1673.2	1610.1	1592.9	1516.4	1464.8	1455.2	1459.1
15°	1711.5	1717.2	1730.6	1732.5	1730.6	1717.2	1711.5	1680.9	1526.0	1459.1	1438.0
17.5°	1723.0	1724.9	1734.4	1734.4	1734.4	1724.9	1723.0	1709.6	1657.9	1568.1	1449.5
20°	1713.4	1717.2	1736.4	1740.2	1736.4	1717.2	1713.4	1696.2	1667.5	1635.0	1545.1
22.5°	1709.6	1717.2	1732.5	1730.6	1732.5	1717.2	1709.6	1682.8	1657.9	1635.0	1598.7
25°	1690.5	1690.5	1692.4	1694.3	1692.4	1690.5	1690.5	1669.4	1619.7	1614.0	1592.9
27.5°	1650.3	1654.1	1665.6	1663.7	1665.6	1654.1	1650.3	1642.6	1589.1	1583.4	1568.1
30°	1614.0	1610.1	1600.6	1592.9	1600.6	1610.1	1614.0	1602.5	1548.9	1533.6	1537.5
32.5°	1552.8	1543.2	1533.6	1527.9	1533.6	1543.2	1552.8	1548.9	1508.8	1487.7	1491.6
35°	1480.1	1482.0	1480.1	1474.4	1480.1	1482.0	1480.1	1483.9	1459.1	1439.9	1438.0
37.5°	1428.5	1432.3	1430.4	1422.7	1430.4	1432.3	1428.5	1424.6	1390.2	1384.5	1388.3
40°	1374.9	1376.8	1374.9	1369.2	1374.9	1376.8	1374.9	1367.3	1319.5	1321.4	1334.7
42.5°	1323.3	1321.4	1315.6	1311.8	1315.6	1321.4	1323.3	1311.8	1250.6	1244.9	1269.7
45°	1264.0	1265.9	1254.4	1248.7	1254.4	1265.9	1264.0	1256.3	1193.2	1177.9	1195.1
47.5°	1204.7	1204.7	1195.1	1189.4	1195.1	1204.7	1204.7	1195.1	1128.3	1113.0	1122.6
50°	1141.6	1139.8	1126.4	1124.5	1126.4	1139.8	1141.6	1136.0	1065.2	1051.8	1051.8
52.5°	1069.0	1069.0	1070.9	1074.8	1070.9	1069.0	1069.0	1070.9	1007.8	994.4	990.6
55°	1005.9	1007.8	1021.2	1025.0	1021.2	1007.8	1005.9	1005.9	948.5	935.2	927.5
57.5°	940.9	940.9	950.5	950.5	950.5	940.9	940.9	937.1	881.6	870.1	866.3
60°	866.3	870.1	877.8	875.9	877.8	870.1	866.3	862.5	814.7	807.0	793.6
62.5°	787.9	791.7	793.6	789.8	793.6	791.7	787.9	776.4	747.7	742.0	724.8
65°	705.7	709.5	711.4	707.6	711.4	709.5	705.7	699.9	678.9	669.3	654.0
67.5°	621.5	619.6	617.7	625.4	617.7	619.6	621.5	613.9	600.5	592.8	571.8
70°	535.5	535.5	533.6	537.4	533.6	535.5	535.5	529.7	522.1	516.3	497.2
72.5°	443.7	441.8	449.4	443.7	449.4	441.8	443.7	441.8	437.9	432.2	413.1
75°	353.8	357.6	353.8	359.5	353.8	357.6	353.8	355.7	353.8	350.0	336.6
77.5°	269.6	273.5	269.6	269.6	269.6	273.5	269.6	271.6	271.6	271.6	260.1
80°	191.2	189.3	189.3	187.4	189.3	189.3	191.2	191.2	193.2	189.3	185.5
82.5°	122.4	120.5	120.5	124.3	120.5	120.5	122.4	124.3	120.5	120.5	120.5
85°	66.9	68.8	65.0	65.0	65.0	68.8	66.9	63.1	66.9	66.9	65.0
87.5°	24.9	22.9	22.9	22.9	22.9	22.9	24.9	26.8	26.8	26.8	28.7
90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.7	12.9	14.5	12.5
92.5°	36.4	35.0	29.2	23.3	29.2	35.0	36.4	51.6	71.8	81.9	72.0
95°	123.5	119.1	101.6	84.0	101.6	119.1	123.5	162.3	213.8	239.6	202.3
97.5°	285.2	276.9	243.4	210.1	243.4	276.9	285.2	309.7	342.3	358.6	296.4
100°	400.5	390.6	350.8	311.0	350.8	390.6	400.5	398.7	396.3	395.1	326.2
102.5°	498.9	490.4	456.4	422.4	456.4	490.4	498.9	467.8	426.3	405.5	335.6
105°	613.9	609.3	591.0	572.7	591.0	609.3	613.9	544.1	450.9	404.4	336.7
107.5°	673.6	674.8	679.2	683.6	679.2	674.8	673.6	576.2	446.3	381.3	321.7
110°	688.9	693.7	712.7	731.9	712.7	693.7	688.9	580.0	434.8	362.2	308.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	679.2	686.5	715.8	745.1	715.8	686.5	679.2	567.7	419.1	344.8	296.8
115°	646.1	656.2	696.9	737.4	696.9	656.2	646.1	538.7	395.5	323.9	283.5
117.5°	600.3	611.6	656.6	701.7	656.6	611.6	600.3	503.3	374.2	309.5	275.2
120°	569.4	580.3	624.1	667.9	624.1	580.3	569.4	480.9	362.8	303.8	272.4
122.5°	538.6	549.4	592.6	635.7	592.6	549.4	538.6	458.9	352.5	299.4	270.9
125°	497.8	507.7	547.5	587.3	547.5	507.7	497.8	430.1	339.7	294.6	269.7
127.5°	465.1	473.5	507.0	540.5	507.0	473.5	465.1	407.0	329.4	290.6	269.0
130°	444.3	452.1	483.1	514.0	483.1	452.1	444.3	392.6	323.6	289.1	269.5
132.5°	426.7	433.7	461.5	489.2	461.5	433.7	426.7	380.4	318.6	287.7	269.7
135°	401.9	407.8	431.7	455.6	431.7	407.8	401.9	363.1	311.3	285.4	269.5
137.5°	383.4	388.3	407.9	427.5	407.9	388.3	383.4	350.6	306.9	285.0	271.1
140°	368.7	373.3	391.6	409.9	391.6	373.3	368.7	340.4	302.6	283.7	271.4
142.5°	358.4	362.3	378.1	393.8	378.1	362.3	358.4	333.5	300.3	283.7	272.4
145°	342.9	345.9	357.8	369.7	357.8	345.9	342.9	322.5	295.4	281.8	272.4
147.5°	329.8	332.3	342.1	352.1	342.1	332.3	329.8	313.8	292.5	281.8	274.2
150°	322.3	324.3	332.4	340.4	332.4	324.3	322.3	308.9	290.8	281.8	275.2
152.5°	316.4	317.9	324.0	330.0	324.0	317.9	316.4	304.8	289.4	281.8	275.9
155°	309.3	310.3	314.3	318.3	314.3	310.3	309.3	300.1	287.9	281.8	277.3
157.5°	303.2	303.9	306.7	309.5	306.7	303.9	303.2	296.0	286.6	281.8	278.6
160°	300.1	300.5	302.2	303.8	302.2	300.5	300.1	294.0	285.9	281.8	279.3
162.5°	297.3	297.7	299.2	300.7	299.2	297.7	297.3	292.1	285.2	281.8	280.0
165°	292.9	293.3	294.9	296.5	294.9	293.3	292.9	289.2	284.3	281.8	281.0
167.5°	291.0	291.2	291.8	292.5	291.8	291.2	291.0	288.6	285.3	283.7	283.0
170°	291.0	291.0	291.0	291.0	291.0	291.0	291.0	288.6	285.3	283.7	283.7
172.5°	289.4	289.2	288.7	288.1	288.7	289.2	289.4	287.5	284.9	283.7	283.7
175°	287.3	287.3	287.3	287.3	287.3	287.3	287.3	286.1	284.5	283.7	284.1
177.5°	287.0	286.8	286.1	285.4	286.1	286.8	287.0	286.0	284.8	284.1	284.4
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	1996.4	2006.0	2011.7	2019.4	2038.5
5°	1919.9	1956.3	1967.7	1996.4	2030.9
7.5°	1751.6	1862.6	1893.2	1962.0	2015.6
10°	1589.1	1700.0	1753.6	1916.1	1996.4
12.5°	1506.9	1571.9	1608.2	1835.8	1969.7
15°	1455.2	1501.1	1527.9	1728.7	1939.1
17.5°	1415.1	1447.6	1466.7	1623.5	1897.0
20°	1390.2	1405.5	1422.7	1547.0	1849.2
22.5°	1373.0	1363.4	1376.8	1493.5	1784.2
25°	1361.5	1325.2	1340.5	1451.4	1707.7
27.5°	1371.1	1290.8	1296.5	1413.2	1627.3
30°	1373.0	1248.7	1250.6	1373.0	1537.5
32.5°	1359.6	1204.7	1206.6	1323.3	1436.1
35°	1327.1	1153.1	1151.2	1265.9	1298.4
37.5°	1283.1	1097.7	1097.7	1202.8	1147.3
40°	1229.6	1042.3	1048.0	1120.7	1013.6
42.5°	1164.5	983.0	990.6	1011.7	914.1
45°	1093.9	925.6	931.3	854.8	837.6
47.5°	1015.5	866.3	868.2	709.5	812.8
50°	921.8	805.1	797.5	608.1	810.9
52.5°	839.5	738.2	715.2	550.8	736.3
55°	759.2	667.4	617.7	506.8	682.7
57.5°	688.5	575.6	527.8	455.1	671.2
60°	623.4	485.7	449.4	399.7	615.8
62.5°	569.9	418.8	411.2	361.4	558.4
65°	512.5	372.9	371.0	328.9	474.3
67.5°	457.1	342.3	340.4	298.3	361.4
70°	397.8	309.8	306.0	265.8	267.7
72.5°	336.6	273.5	269.6	239.0	221.8
75°	275.4	231.4	229.5	208.5	179.8
77.5°	216.1	183.6	187.4	168.3	132.0
80°	154.9	133.9	137.7	120.5	99.4
82.5°	103.3	88.0	91.8	76.5	66.9
85°	57.4	49.7	51.6	40.2	30.6
87.5°	26.8	22.9	22.9	15.3	9.6
90°	8.4	5.4	5.0	3.4	1.9
92.5°	52.0	37.0	33.8	20.7	7.6
95°	127.8	72.0	66.1	42.2	18.4
97.5°	172.2	79.1	73.8	52.9	31.8
100°	188.4	85.0	80.2	61.2	42.2
102.5°	195.8	90.9	86.5	68.8	51.0
105°	201.4	99.8	96.1	81.0	65.9
107.5°	202.3	112.8	109.3	95.2	81.2
110°	200.8	120.1	116.9	104.2	91.6



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CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	200.9	128.9	125.8	113.8	101.7
115°	202.7	142.1	139.3	128.1	117.0
117.5°	206.5	155.0	152.4	142.3	132.1
120°	209.6	162.5	160.1	150.5	140.9
122.5°	214.0	171.3	168.9	159.2	149.5
125°	219.9	182.5	180.3	171.6	162.8
127.5°	225.9	193.4	191.2	182.3	173.5
130°	230.2	200.7	198.3	188.8	179.3
132.5°	233.7	206.6	204.2	194.8	185.2
135°	237.5	213.6	211.4	202.7	194.0
137.5°	243.3	222.4	220.2	211.6	203.0
140°	246.8	228.3	226.3	218.4	210.5
142.5°	249.8	232.7	230.9	223.6	216.3
145°	253.6	239.4	237.8	231.5	225.1
147.5°	259.1	247.8	246.3	240.1	233.9
150°	262.1	252.2	250.8	245.3	239.6
152.5°	264.0	255.1	254.1	249.8	245.6
155°	268.2	261.4	260.7	257.5	254.3
157.5°	272.4	267.7	267.0	263.9	260.8
160°	274.3	270.6	270.0	267.6	265.2
162.5°	276.3	273.7	273.2	271.5	269.6
165°	279.4	278.2	277.8	276.1	274.5
167.5°	281.7	280.6	280.5	279.7	278.9
170°	283.6	283.5	283.3	282.6	281.8
172.5°	283.7	283.7	283.7	283.5	283.3
175°	284.8	285.4	285.4	285.4	285.4
177.5°	284.9	285.4	285.4	285.4	285.4
180°	285.4	285.4	285.4	285.4	285.4



TEST NUMBER: P933948

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-8-6500K

**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	14.55	15.68	15.27	16.42	17.30	17.39	18.51	18.11	19.26	20.14
	3H	15.05	16.06	15.78	16.81	17.72	18.76	19.77	19.49	20.52	21.43
	4H	15.25	16.20	16.00	16.96	17.89	19.21	20.17	19.97	20.93	21.86
	6H	15.38	16.26	16.15	17.03	17.97	19.51	20.39	20.28	21.16	22.11
	8H	15.39	16.23	16.17	17.02	17.96	19.60	20.44	20.37	21.23	22.17
	12H	15.37	16.17	16.15	16.95	17.92	19.65	20.45	20.43	21.23	22.20
4H	2H	15.62	16.57	16.37	17.33	18.26	17.83	18.78	18.58	19.54	20.47
	3H	16.67	17.46	17.44	18.26	19.20	19.36	20.16	20.13	20.95	21.90
	4H	16.95	17.68	17.74	18.47	19.45	19.90	20.62	20.69	21.42	22.39
	6H	17.09	17.72	17.90	18.54	19.52	20.28	20.91	21.09	21.73	22.71
	8H	17.11	17.69	17.91	18.51	19.50	20.40	20.98	21.20	21.80	22.79
	12H	17.09	17.61	17.91	18.45	19.45	20.47	20.99	21.29	21.83	22.83
8H	4H	17.43	18.02	18.24	18.83	19.82	20.05	20.63	20.85	21.45	22.44
	6H	17.70	18.19	18.54	19.05	20.04	20.50	20.98	21.33	21.84	22.83
	8H	17.75	18.18	18.59	19.03	20.04	20.65	21.08	21.50	21.94	22.95
	12H	17.74	18.12	18.59	18.97	20.04	20.76	21.14	21.61	21.99	23.06
12H	4H	17.45	17.98	18.28	18.81	19.81	20.02	20.55	20.85	21.39	22.39
	6H	17.77	18.20	18.61	19.05	20.06	20.50	20.93	21.34	21.78	22.79
	8H	17.85	18.23	18.69	19.07	20.14	20.67	21.05	21.52	21.90	22.96