

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: P934487

Luminaire Tested: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

**Test Information**

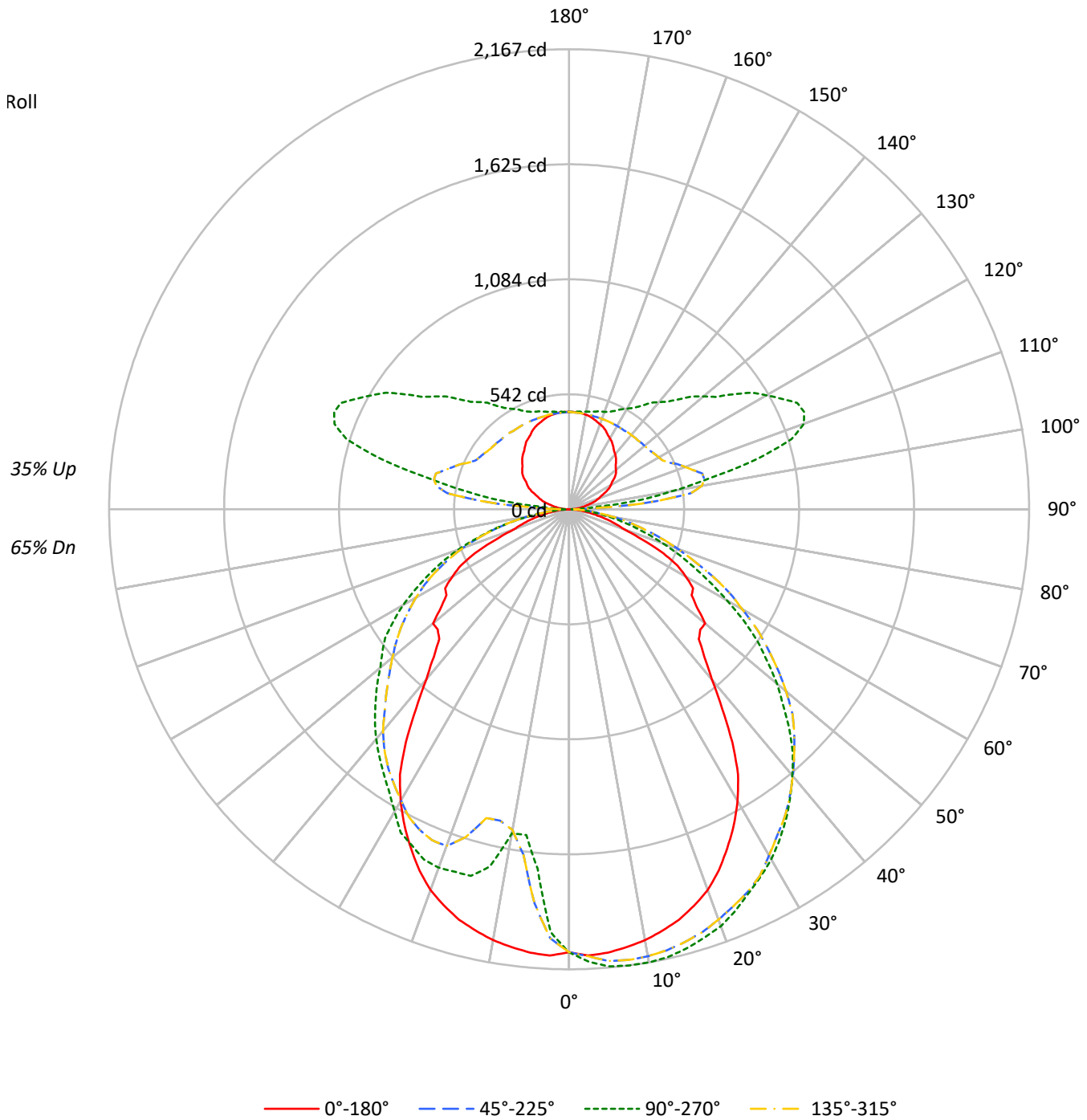
Test Method: LM-79-2019  
Report Number: P934487  
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8385.3 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 67.8  
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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65		
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55		
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46		
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39		
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33		
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16		

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

	0°	90°	180°	270°
0°	12906	12906	12906	12906
5°	12997	13028	12997	10244
10°	12906	12833	12906	9175
15°	12761	12555	12761	10484
20°	12489	12226	12489	10506
25°	11937	11746	11937	10283
30°	11227	11347	11227	9794
35°	10004	10841	10004	9257
40°	8331	10248	8331	8851
45°	7439	9553	7439	8384
50°	7896	8724	7896	7916
55°	7424	7830	7424	7646
60°	7642	6651	7642	7002
65°	6918	5497	6918	6145
70°	4779	4381	4779	5151
75°	4176	3239	4176	3879
80°	3339	2142	3339	2331
85°	1884	1135	1884	964

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11410 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.3	2.2
10°-20°	534.7	6.4
20°-30°	826.5	9.9
30°-40°	986.7	11.8
40°-50°	992.5	11.8
50°-60°	863.6	10.3
60°-70°	612.3	7.3
70°-80°	323.9	3.9
80°-90°	82.4	1.0
90°-100°	223.7	2.7
100°-110°	588.0	7.0
110°-120°	609.7	7.3
120°-130°	489.0	5.8
130°-140°	383.7	4.6
140°-150°	294.5	3.5
150°-160°	212.1	2.5
160°-170°	129.8	1.5
170°-180°	43.8	0.5
0°-30°	1549.6	18.5
0°-40°	2536.3	30.2
0°-60°	4392.4	52.4
0°-90°	5411.0	64.5
90°-120°	1421.3	17.0
90°-150°	2588.6	30.9
90°-180°	2974.0	35.5
0°-180°	8385.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2086	2086	2086	2086	2086	
5°	2096	2161	2096	1699	2096	199
15°	2001	2142	2001	1788	2001	563
25°	1762	1998	1762	1749	1762	809
35°	1340	1782	1340	1522	1340	829
45°	864	1468	864	1289	864	692
55°	705	1084	705	1058	705	647
65°	490	653	490	730	490	468
75°	186	310	186	371	186	195
85°	32	79	32	67	32	43
90°	3	12	3	12	3	4
95°	30	135	30	135	30	33
105°	106	921	106	921	106	112
115°	188	1186	188	1186	188	186
125°	262	944	262	944	262	232
135°	312	733	312	733	312	241
145°	362	594	362	594	362	227
155°	409	512	409	512	409	188
165°	441	477	441	477	441	125
175°	459	462	459	462	459	44
180°	459	459	459	459	459	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2
2.5°	2104.0	2104.0	2115.9	2119.8	2119.8	2113.9	2107.9	2113.9	2131.6	2137.6	2135.6
5°	2096.1	2111.9	2133.6	2137.6	2141.5	2139.5	2135.6	2139.5	2159.2	2163.2	2165.2
7.5°	2080.3	2109.9	2137.6	2143.5	2149.4	2143.5	2141.5	2145.5	2165.2	2169.2	2169.2
10°	2060.6	2102.1	2133.6	2137.6	2143.5	2137.6	2137.6	2145.5	2165.2	2169.2	2171.1
12.5°	2032.9	2090.2	2119.8	2123.8	2131.6	2129.6	2127.7	2135.6	2155.3	2159.2	2159.2
15°	2001.4	2068.5	2096.1	2100.1	2113.9	2109.9	2109.9	2117.8	2139.5	2145.5	2143.5
17.5°	1957.9	2040.8	2072.5	2078.4	2088.2	2086.2	2088.2	2096.1	2115.9	2119.8	2121.8
20°	1908.6	2003.4	2040.8	2046.8	2056.6	2056.6	2056.6	2066.5	2086.2	2094.2	2094.2
22.5°	1841.5	1963.9	2003.4	2007.3	2019.2	2019.2	2023.1	2036.9	2054.6	2056.6	2056.6
25°	1762.5	1920.5	1954.1	1965.8	1977.7	1983.6	1989.5	1997.5	2003.4	2001.4	2003.4
27.5°	1679.7	1865.2	1908.6	1916.5	1932.3	1938.2	1946.1	1948.1	1950.1	1955.9	1952.1
30°	1586.9	1788.2	1853.4	1861.2	1886.9	1890.8	1882.9	1886.9	1896.8	1900.8	1904.7
32.5°	1482.2	1673.8	1796.1	1813.9	1837.5	1825.7	1823.8	1829.7	1845.5	1845.5	1849.4
35°	1340.2	1584.9	1742.8	1758.6	1776.4	1762.5	1770.5	1772.4	1782.2	1788.2	1786.2
37.5°	1184.2	1507.9	1687.5	1699.4	1713.2	1695.5	1707.2	1713.2	1721.1	1717.2	1717.2
40°	1046.1	1387.5	1622.4	1630.4	1642.2	1628.4	1640.2	1644.1	1648.1	1644.1	1642.2
42.5°	943.4	1255.3	1553.4	1563.2	1555.4	1565.2	1569.1	1577.1	1571.1	1563.2	1563.2
45°	864.5	1219.8	1478.4	1490.2	1478.4	1494.1	1500.1	1500.1	1482.2	1478.4	1476.4
47.5°	838.8	1148.7	1403.4	1403.4	1397.4	1417.1	1427.0	1413.2	1395.4	1389.5	1389.5
50°	836.8	1069.8	1300.7	1292.8	1320.4	1344.1	1334.2	1320.4	1306.7	1284.9	1284.9
52.5°	759.8	973.1	1168.4	1198.1	1241.5	1255.3	1239.5	1225.7	1202.0	1192.1	1184.2
55°	704.7	872.4	1048.1	1107.3	1152.7	1170.4	1140.8	1127.0	1091.5	1085.5	1081.7
57.5°	692.8	726.4	937.5	1012.5	1067.8	1065.8	1048.1	1022.4	992.8	986.8	984.9
60°	635.5	525.0	819.1	908.0	965.1	959.2	943.4	919.8	892.1	888.2	884.2
62.5°	576.3	381.0	684.8	785.5	866.5	864.5	850.7	815.1	795.4	785.5	777.7
65°	489.5	319.7	487.5	653.3	769.8	773.7	744.1	718.4	696.7	684.8	683.0
67.5°	373.0	260.6	329.6	544.7	677.0	673.1	635.5	623.7	596.1	590.1	578.3
70°	276.3	173.7	229.0	442.1	586.2	576.3	546.7	533.0	507.3	493.4	485.6
72.5°	229.0	140.1	167.7	343.4	493.4	481.6	456.0	440.1	418.4	406.6	398.7
75°	185.6	148.0	128.3	254.6	400.7	392.8	369.1	353.3	335.6	319.7	321.7
77.5°	136.2	138.1	102.6	187.5	317.7	306.0	292.1	272.4	264.4	248.7	248.7
80°	102.6	108.6	77.0	128.3	229.0	229.0	217.1	203.3	189.4	181.6	181.6
82.5°	69.1	69.1	57.3	80.9	156.0	150.0	142.1	138.1	130.3	126.3	126.3
85°	31.6	39.4	35.6	49.3	84.9	88.8	88.8	84.9	82.9	79.0	80.9
87.5°	9.9	17.7	21.7	27.6	43.4	45.4	47.4	47.4	47.4	49.3	49.3
90°	3.1	5.6	8.1	8.7	13.5	20.1	23.4	20.8	15.5	11.7	11.7
92.5°	12.4	33.3	54.2	59.5	83.6	115.7	131.8	115.4	82.9	58.5	56.2
95°	29.6	67.8	106.2	115.7	205.6	325.4	385.3	343.8	260.9	198.6	191.5
97.5°	51.1	85.0	118.7	127.2	277.0	476.7	576.5	550.3	497.8	458.5	445.0
100°	67.7	98.4	129.1	136.8	302.9	524.5	635.2	637.1	641.0	643.9	628.0
102.5°	81.9	110.6	139.1	146.3	314.8	539.5	651.9	685.2	752.1	802.2	788.5
105°	106.0	130.2	154.4	160.5	323.6	541.2	650.0	724.9	874.6	986.9	979.6
107.5°	130.6	153.2	175.7	181.4	325.3	517.1	613.0	717.4	926.3	1083.0	1084.7
110°	147.2	167.5	187.9	193.0	322.8	495.8	582.3	699.0	932.6	1107.7	1115.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	163.5	183.0	202.4	207.3	322.9	477.2	554.3	673.8	912.7	1091.9	1103.7
115°	188.1	206.1	224.0	228.5	325.9	455.8	520.7	635.8	866.0	1038.6	1055.0
117.5°	212.4	228.8	245.0	249.1	332.0	442.4	497.6	601.5	809.2	965.0	983.2
120°	226.6	241.9	257.3	261.2	336.8	437.8	488.3	583.3	773.1	915.4	933.1
122.5°	240.5	256.0	271.4	275.3	343.9	435.5	481.3	566.7	737.7	865.9	883.3
125°	261.7	275.8	289.9	293.4	353.5	433.6	473.6	546.2	691.4	800.3	816.2
127.5°	279.0	293.2	307.5	311.1	363.0	432.5	467.1	529.5	654.1	747.6	761.0
130°	288.2	303.6	318.9	322.7	370.0	433.1	464.6	520.1	631.2	714.4	726.9
132.5°	297.8	313.1	328.5	332.3	375.7	433.6	462.5	512.2	611.5	686.0	697.2
135°	311.9	325.9	339.8	343.3	381.9	433.2	458.9	500.5	583.7	646.0	655.7
137.5°	326.4	340.2	354.0	357.5	391.0	435.8	458.2	493.3	563.6	616.4	624.3
140°	338.4	351.2	363.8	367.0	396.7	436.2	456.1	486.4	547.2	592.7	600.1
142.5°	347.6	359.4	371.1	374.1	401.4	437.8	456.1	482.8	536.0	576.1	582.5
145°	361.8	372.1	382.4	385.0	407.7	437.8	453.0	474.8	518.4	551.2	556.0
147.5°	376.0	386.0	396.0	398.5	416.6	440.8	453.0	470.1	504.5	530.3	534.3
150°	385.3	394.3	403.3	405.6	421.4	442.4	453.0	467.5	496.5	518.2	521.4
152.5°	394.7	401.6	408.5	410.2	424.4	443.4	453.0	465.3	490.1	508.7	511.0
155°	409.0	414.0	419.0	420.3	431.2	445.7	453.0	462.8	482.6	497.3	498.9
157.5°	419.4	424.3	429.3	430.5	437.9	448.0	453.0	460.6	476.0	487.4	488.5
160°	426.5	430.3	434.1	435.1	441.0	449.0	453.0	459.6	472.7	482.6	483.2
162.5°	433.6	436.4	439.3	440.0	444.3	450.1	453.0	458.6	469.6	477.9	478.5
165°	441.2	443.8	446.4	447.1	449.1	451.7	453.0	457.0	464.8	470.8	471.5
167.5°	448.3	449.5	450.8	451.1	452.8	455.0	456.1	458.7	463.8	467.7	468.0
170°	453.0	454.2	455.5	455.8	455.9	456.0	456.1	458.7	463.8	467.7	467.7
172.5°	455.5	455.8	456.0	456.1	456.1	456.1	456.1	458.1	462.1	465.2	465.0
175°	458.9	458.9	458.9	458.9	458.0	456.7	456.1	457.4	460.0	461.8	461.8
177.5°	458.9	458.9	458.9	458.9	458.2	457.2	456.7	457.7	459.8	461.2	460.9
180°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2
2.5°	2139.5	2133.6	2139.5	2135.6	2137.6	2131.6	2113.9	2107.9	2113.9	2119.8	2119.8
5°	2165.2	2161.2	2165.2	2165.2	2163.2	2159.2	2139.5	2135.6	2139.5	2141.5	2137.6
7.5°	2173.1	2167.2	2173.1	2169.2	2169.2	2165.2	2145.5	2141.5	2143.5	2149.4	2143.5
10°	2173.1	2167.2	2173.1	2171.1	2169.2	2165.2	2145.5	2137.6	2137.6	2143.5	2137.6
12.5°	2163.2	2159.2	2163.2	2159.2	2159.2	2155.3	2135.6	2127.7	2129.6	2131.6	2123.8
15°	2147.5	2141.5	2147.5	2143.5	2145.5	2139.5	2117.8	2109.9	2109.9	2113.9	2100.1
17.5°	2123.8	2115.9	2123.8	2121.8	2119.8	2115.9	2096.1	2088.2	2086.2	2088.2	2078.4
20°	2096.1	2090.2	2096.1	2094.2	2094.2	2086.2	2066.5	2056.6	2056.6	2056.6	2046.8
22.5°	2052.7	2046.8	2052.7	2056.6	2056.6	2054.6	2036.9	2023.1	2019.2	2019.2	2007.3
25°	2003.4	1997.5	2003.4	2003.4	2001.4	2003.4	1997.5	1989.5	1983.6	1977.7	1965.8
27.5°	1955.9	1952.1	1955.9	1952.1	1955.9	1950.1	1948.1	1946.1	1938.2	1932.3	1916.5
30°	1908.6	1904.7	1908.6	1904.7	1900.8	1896.8	1886.9	1882.9	1890.8	1886.9	1861.2
32.5°	1849.4	1845.5	1849.4	1849.4	1845.5	1845.5	1829.7	1823.8	1825.7	1837.5	1813.9
35°	1788.2	1782.2	1788.2	1786.2	1788.2	1782.2	1772.4	1770.5	1762.5	1776.4	1758.6
37.5°	1717.2	1711.2	1717.2	1717.2	1717.2	1721.1	1713.2	1707.2	1695.5	1713.2	1699.4
40°	1644.1	1636.2	1644.1	1642.2	1644.1	1648.1	1644.1	1640.2	1628.4	1642.2	1630.4
42.5°	1561.2	1559.2	1561.2	1563.2	1563.2	1571.1	1577.1	1569.1	1565.2	1555.4	1563.2
45°	1472.4	1468.5	1472.4	1476.4	1478.4	1482.2	1500.1	1500.1	1494.1	1478.4	1490.2
47.5°	1377.7	1367.8	1377.7	1389.5	1389.5	1395.4	1413.2	1427.0	1417.1	1397.4	1403.4
50°	1277.0	1279.0	1277.0	1284.9	1284.9	1306.7	1320.4	1334.2	1344.1	1320.4	1292.8
52.5°	1178.4	1176.4	1178.4	1184.2	1192.1	1202.0	1225.7	1239.5	1255.3	1241.5	1198.1
55°	1079.7	1083.5	1079.7	1081.7	1085.5	1091.5	1127.0	1140.8	1170.4	1152.7	1107.3
57.5°	981.0	975.0	981.0	984.9	986.8	992.8	1022.4	1048.1	1065.8	1067.8	1012.5
60°	866.5	858.6	866.5	884.2	888.2	892.1	919.8	943.4	959.2	965.1	908.0
62.5°	765.8	752.0	765.8	777.7	785.5	795.4	815.1	850.7	864.5	866.5	785.5
65°	659.3	653.3	659.3	683.0	684.8	696.7	718.4	744.1	773.7	769.8	653.3
67.5°	562.5	562.5	562.5	578.3	590.1	596.1	623.7	635.5	673.1	677.0	544.7
70°	473.7	471.7	473.7	485.6	493.4	507.3	533.0	546.7	576.3	586.2	442.1
72.5°	388.8	386.8	388.8	398.7	406.6	418.4	440.1	456.0	481.6	493.4	343.4
75°	313.8	309.9	313.8	321.7	319.7	335.6	353.3	369.1	392.8	400.7	254.6
77.5°	240.8	240.8	240.8	248.7	248.7	264.4	272.4	292.1	306.0	317.7	187.5
80°	179.6	177.7	179.6	181.6	181.6	189.4	203.3	217.1	229.0	229.0	128.3
82.5°	126.3	122.4	126.3	126.3	126.3	130.3	138.1	142.1	150.0	156.0	80.9
85°	79.0	79.0	79.0	80.9	79.0	82.9	84.9	88.8	88.8	84.9	49.3
87.5°	51.3	49.3	51.3	49.3	49.3	47.4	47.4	47.4	45.4	43.4	27.6
90°	11.7	11.7	11.7	11.7	11.7	15.5	20.8	23.4	20.1	13.5	8.7
92.5°	46.8	37.5	46.8	56.2	58.5	82.9	115.4	131.8	115.7	83.6	59.5
95°	163.3	135.2	163.3	191.5	198.6	260.9	343.8	385.3	325.4	205.6	115.7
97.5°	391.4	337.8	391.4	445.0	458.5	497.8	550.3	576.5	476.7	277.0	127.2
100°	564.0	500.1	564.0	628.0	643.9	641.0	637.1	635.2	524.5	302.9	136.8
102.5°	733.8	679.0	733.8	788.5	802.2	752.1	685.2	651.9	539.5	314.8	146.3
105°	950.2	920.7	950.2	979.6	986.9	874.6	724.9	650.0	541.2	323.6	160.5
107.5°	1091.8	1099.0	1091.8	1084.7	1083.0	926.3	717.4	613.0	517.1	325.3	181.4
110°	1145.9	1176.6	1145.9	1115.3	1107.7	932.6	699.0	582.3	495.8	322.8	193.0





TEST NUMBER: P934487

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1150.8	1197.8	1150.8	1103.7	1091.9	912.7	673.8	554.3	477.2	322.9	207.3
115°	1120.2	1185.5	1120.2	1055.0	1038.6	866.0	635.8	520.7	455.8	325.9	228.5
117.5°	1055.6	1128.0	1055.6	983.2	965.0	809.2	601.5	497.6	442.4	332.0	249.1
120°	1003.4	1073.8	1003.4	933.1	915.4	773.1	583.3	488.3	437.8	336.8	261.2
122.5°	952.7	1022.0	952.7	883.3	865.9	737.7	566.7	481.3	435.5	343.9	275.3
125°	880.2	944.1	880.2	816.2	800.3	691.4	546.2	473.6	433.6	353.5	293.4
127.5°	815.0	869.0	815.0	761.0	747.6	654.1	529.5	467.1	432.5	363.0	311.1
130°	776.7	826.5	776.7	726.9	714.4	631.2	520.1	464.6	433.1	370.0	322.7
132.5°	741.8	786.4	741.8	697.2	686.0	611.5	512.2	462.5	433.6	375.7	332.3
135°	694.1	732.6	694.1	655.7	646.0	583.7	500.5	458.9	433.2	381.9	343.3
137.5°	655.9	687.3	655.9	624.3	616.4	563.6	493.3	458.2	435.8	391.0	357.5
140°	629.5	659.0	629.5	600.1	592.7	547.2	486.4	456.1	436.2	396.7	367.0
142.5°	607.8	633.1	607.8	582.5	576.1	536.0	482.8	456.1	437.8	401.4	374.1
145°	575.2	594.3	575.2	556.0	551.2	518.4	474.8	453.0	437.8	407.7	385.0
147.5°	550.1	565.9	550.1	534.3	530.3	504.5	470.1	453.0	440.8	416.6	398.5
150°	534.4	547.2	534.4	521.4	518.2	496.5	467.5	453.0	442.4	421.4	405.6
152.5°	520.8	530.6	520.8	511.0	508.7	490.1	465.3	453.0	443.4	424.4	410.2
155°	505.4	511.7	505.4	498.9	497.3	482.6	462.8	453.0	445.7	431.2	420.3
157.5°	493.1	497.6	493.1	488.5	487.4	476.0	460.6	453.0	448.0	437.9	430.5
160°	485.7	488.3	485.7	483.2	482.6	472.7	459.6	453.0	449.0	441.0	435.1
162.5°	481.0	483.5	481.0	478.5	477.9	469.6	458.6	453.0	450.1	444.3	440.0
165°	474.1	476.7	474.1	471.5	470.8	464.8	457.0	453.0	451.7	449.1	447.1
167.5°	469.1	470.2	469.1	468.0	467.7	463.8	458.7	456.1	455.0	452.8	451.1
170°	467.7	467.7	467.7	467.7	467.7	463.8	458.7	456.1	456.0	455.9	455.8
172.5°	464.0	463.1	464.0	465.0	465.2	462.1	458.1	456.1	456.1	456.1	456.1
175°	461.8	461.8	461.8	461.8	461.8	460.0	457.4	456.1	456.7	458.0	458.9
177.5°	460.0	458.9	460.0	460.9	461.2	459.8	457.7	456.7	457.2	458.2	458.9
180°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9



TEST NUMBER: P934487

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2
2.5°	2115.9	2104.0	2104.0	2084.2	2076.4	2070.5	2060.6	2030.9	2023.1	2015.2	2027.1
5°	2133.6	2111.9	2096.1	2060.6	2030.9	2019.2	1981.6	1910.6	1863.2	1827.7	1807.9
7.5°	2137.6	2109.9	2080.3	2025.1	1954.1	1922.4	1807.9	1677.7	1642.2	1610.5	1590.8
10°	2133.6	2102.1	2060.6	1977.7	1809.9	1754.7	1640.2	1555.4	1533.6	1527.7	1533.6
12.5°	2119.8	2090.2	2032.9	1894.8	1659.9	1622.4	1555.4	1506.0	1502.1	1511.9	1565.2
15°	2096.1	2068.5	2001.4	1784.2	1577.1	1549.4	1502.1	1484.2	1506.0	1575.1	1734.9
17.5°	2072.5	2040.8	1957.9	1675.7	1513.8	1494.1	1460.5	1496.1	1618.5	1711.2	1764.5
20°	2040.8	2003.4	1908.6	1596.8	1468.5	1450.7	1434.9	1594.8	1687.5	1721.1	1750.7
22.5°	2003.4	1963.9	1841.5	1541.5	1421.1	1407.2	1417.1	1650.1	1687.5	1711.2	1736.9
25°	1954.1	1920.5	1762.5	1498.1	1383.6	1367.8	1405.4	1644.1	1665.8	1671.8	1723.1
27.5°	1908.6	1865.2	1679.7	1458.6	1338.2	1332.2	1415.2	1618.5	1634.2	1640.2	1695.5
30°	1853.4	1788.2	1586.9	1417.1	1290.8	1288.8	1417.1	1586.9	1582.9	1598.8	1654.0
32.5°	1796.1	1673.8	1482.2	1365.8	1245.4	1243.5	1403.4	1539.5	1535.5	1557.2	1598.8
35°	1742.8	1584.9	1340.2	1306.7	1188.2	1190.1	1369.8	1484.2	1486.2	1506.0	1531.6
37.5°	1687.5	1507.9	1184.2	1241.5	1133.0	1133.0	1324.4	1432.9	1429.0	1434.9	1470.4
40°	1622.4	1387.5	1046.1	1156.7	1081.7	1075.7	1269.1	1377.7	1363.8	1361.9	1411.2
42.5°	1553.4	1255.3	943.4	1044.1	1022.4	1014.5	1202.0	1310.5	1284.9	1290.8	1354.0
45°	1478.4	1219.8	864.5	882.3	961.2	955.3	1129.0	1233.5	1215.8	1231.7	1296.8
47.5°	1403.4	1148.7	838.8	732.3	896.1	894.1	1048.1	1158.5	1148.7	1164.5	1233.5
50°	1300.7	1069.8	836.8	627.7	823.1	831.0	951.4	1085.5	1085.5	1099.4	1172.4
52.5°	1168.4	973.1	759.8	568.4	738.1	761.8	866.5	1022.4	1026.4	1040.1	1105.3
55°	1048.1	872.4	704.7	523.0	637.5	688.8	783.6	957.3	965.1	979.0	1038.2
57.5°	937.5	726.4	692.8	469.7	544.7	594.1	710.5	894.1	898.1	909.9	967.1
60°	819.1	525.0	635.5	412.5	463.8	501.3	643.4	819.1	833.0	840.8	890.1
62.5°	684.8	381.0	576.3	373.0	424.4	432.3	588.1	748.1	765.8	771.7	801.4
65°	487.5	319.7	489.5	339.4	382.9	384.9	529.0	675.0	690.8	700.7	722.4
67.5°	329.6	260.6	373.0	307.9	351.3	353.3	471.7	590.1	611.8	619.7	633.6
70°	229.0	173.7	276.3	274.4	315.8	319.7	410.6	513.1	533.0	538.8	546.7
72.5°	167.7	140.1	229.0	246.7	278.3	282.3	347.4	426.3	446.1	452.0	456.0
75°	128.3	148.0	185.6	215.1	236.8	238.8	284.3	347.4	361.1	365.1	367.1
77.5°	102.6	138.1	136.2	173.7	193.4	189.4	223.0	268.4	280.3	280.3	280.3
80°	77.0	108.6	102.6	124.3	142.1	138.1	159.9	191.4	195.4	199.3	197.4
82.5°	57.3	69.1	69.1	79.0	94.7	90.8	106.6	124.3	124.3	124.3	128.3
85°	35.6	39.4	31.6	41.4	53.3	51.3	59.3	67.1	69.1	69.1	65.1
87.5°	21.7	17.7	9.9	15.8	23.7	23.7	27.6	29.6	27.6	27.6	27.6
90°	8.1	5.6	3.1	5.6	8.1	8.7	13.5	20.1	23.4	20.8	15.5
92.5°	54.2	33.3	12.4	33.3	54.2	59.5	83.6	115.7	131.8	115.4	82.9
95°	106.2	67.8	29.6	67.8	106.2	115.7	205.6	325.4	385.3	343.8	260.9
97.5°	118.7	85.0	51.1	85.0	118.7	127.2	277.0	476.7	576.5	550.3	497.8
100°	129.1	98.4	67.7	98.4	129.1	136.8	302.9	524.5	635.2	637.1	641.0
102.5°	139.1	110.6	81.9	110.6	139.1	146.3	314.8	539.5	651.9	685.2	752.1
105°	154.4	130.2	106.0	130.2	154.4	160.5	323.6	541.2	650.0	724.9	874.6
107.5°	175.7	153.2	130.6	153.2	175.7	181.4	325.3	517.1	613.0	717.4	926.3
110°	187.9	167.5	147.2	167.5	187.9	193.0	322.8	495.8	582.3	699.0	932.6



TEST NUMBER: P934487

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	202.4	183.0	163.5	183.0	202.4	207.3	322.9	477.2	554.3	673.8	912.7
115°	224.0	206.1	188.1	206.1	224.0	228.5	325.9	455.8	520.7	635.8	866.0
117.5°	245.0	228.8	212.4	228.8	245.0	249.1	332.0	442.4	497.6	601.5	809.2
120°	257.3	241.9	226.6	241.9	257.3	261.2	336.8	437.8	488.3	583.3	773.1
122.5°	271.4	256.0	240.5	256.0	271.4	275.3	343.9	435.5	481.3	566.7	737.7
125°	289.9	275.8	261.7	275.8	289.9	293.4	353.5	433.6	473.6	546.2	691.4
127.5°	307.5	293.2	279.0	293.2	307.5	311.1	363.0	432.5	467.1	529.5	654.1
130°	318.9	303.6	288.2	303.6	318.9	322.7	370.0	433.1	464.6	520.1	631.2
132.5°	328.5	313.1	297.8	313.1	328.5	332.3	375.7	433.6	462.5	512.2	611.5
135°	339.8	325.9	311.9	325.9	339.8	343.3	381.9	433.2	458.9	500.5	583.7
137.5°	354.0	340.2	326.4	340.2	354.0	357.5	391.0	435.8	458.2	493.3	563.6
140°	363.8	351.2	338.4	351.2	363.8	367.0	396.7	436.2	456.1	486.4	547.2
142.5°	371.1	359.4	347.6	359.4	371.1	374.1	401.4	437.8	456.1	482.8	536.0
145°	382.4	372.1	361.8	372.1	382.4	385.0	407.7	437.8	453.0	474.8	518.4
147.5°	396.0	386.0	376.0	386.0	396.0	398.5	416.6	440.8	453.0	470.1	504.5
150°	403.3	394.3	385.3	394.3	403.3	405.6	421.4	442.4	453.0	467.5	496.5
152.5°	408.5	401.6	394.7	401.6	408.5	410.2	424.4	443.4	453.0	465.3	490.1
155°	419.0	414.0	409.0	414.0	419.0	420.3	431.2	445.7	453.0	462.8	482.6
157.5°	429.3	424.3	419.4	424.3	429.3	430.5	437.9	448.0	453.0	460.6	476.0
160°	434.1	430.3	426.5	430.3	434.1	435.1	441.0	449.0	453.0	459.6	472.7
162.5°	439.3	436.4	433.6	436.4	439.3	440.0	444.3	450.1	453.0	458.6	469.6
165°	446.4	443.8	441.2	443.8	446.4	447.1	449.1	451.7	453.0	457.0	464.8
167.5°	450.8	449.5	448.3	449.5	450.8	451.1	452.8	455.0	456.1	458.7	463.8
170°	455.5	454.2	453.0	454.2	455.5	455.8	455.9	456.0	456.1	458.7	463.8
172.5°	456.0	455.8	455.5	455.8	456.0	456.1	456.1	456.1	456.1	458.1	462.1
175°	458.9	458.9	458.9	458.9	458.9	458.9	458.0	456.7	456.1	457.4	460.0
177.5°	458.9	458.9	458.9	458.9	458.9	458.9	458.2	457.2	456.7	457.7	459.8
180°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9



TEST NUMBER: P934487

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2
2.5°	2013.2	2007.3	2015.2	1993.5	2015.2	2007.3	2013.2	2027.1	2015.2	2023.1	2030.9
5°	1766.5	1756.6	1725.1	1699.4	1725.1	1756.6	1766.5	1807.9	1827.7	1863.2	1910.6
7.5°	1579.0	1571.1	1563.2	1547.4	1563.2	1571.1	1579.0	1590.8	1610.5	1642.2	1677.7
10°	1537.5	1539.5	1551.4	1549.4	1551.4	1539.5	1537.5	1533.6	1527.7	1533.6	1555.4
12.5°	1644.1	1661.9	1727.1	1723.1	1727.1	1661.9	1644.1	1565.2	1511.9	1502.1	1506.0
15°	1766.5	1772.4	1786.2	1788.2	1786.2	1772.4	1766.5	1734.9	1575.1	1506.0	1484.2
17.5°	1778.4	1780.4	1790.2	1790.2	1790.2	1780.4	1778.4	1764.5	1711.2	1618.5	1496.1
20°	1768.5	1772.4	1792.2	1796.1	1792.2	1772.4	1768.5	1750.7	1721.1	1687.5	1594.8
22.5°	1764.5	1772.4	1788.2	1786.2	1788.2	1772.4	1764.5	1736.9	1711.2	1687.5	1650.1
25°	1744.8	1744.8	1746.8	1748.8	1746.8	1744.8	1744.8	1723.1	1671.8	1665.8	1644.1
27.5°	1703.4	1707.2	1719.1	1717.2	1719.1	1707.2	1703.4	1695.5	1640.2	1634.2	1618.5
30°	1665.8	1661.9	1652.1	1644.1	1652.1	1661.9	1665.8	1654.0	1598.8	1582.9	1586.9
32.5°	1602.7	1592.8	1582.9	1577.1	1582.9	1592.8	1602.7	1598.8	1557.2	1535.5	1539.5
35°	1527.7	1529.7	1527.7	1521.8	1527.7	1529.7	1527.7	1531.6	1506.0	1486.2	1484.2
37.5°	1474.4	1478.4	1476.4	1468.5	1476.4	1478.4	1474.4	1470.4	1434.9	1429.0	1432.9
40°	1419.1	1421.1	1419.1	1413.2	1419.1	1421.1	1419.1	1411.2	1361.9	1363.8	1377.7
42.5°	1365.8	1363.8	1357.9	1354.0	1357.9	1363.8	1365.8	1354.0	1290.8	1284.9	1310.5
45°	1304.7	1306.7	1294.8	1288.8	1294.8	1306.7	1304.7	1296.8	1231.7	1215.8	1233.5
47.5°	1243.5	1243.5	1233.5	1227.7	1233.5	1243.5	1243.5	1233.5	1164.5	1148.7	1158.5
50°	1178.4	1176.4	1162.5	1160.5	1162.5	1176.4	1178.4	1172.4	1099.4	1085.5	1085.5
52.5°	1103.4	1103.4	1105.3	1109.2	1105.3	1103.4	1103.4	1105.3	1040.1	1026.4	1022.4
55°	1038.2	1040.1	1054.0	1058.0	1054.0	1040.1	1038.2	1038.2	979.0	965.1	957.3
57.5°	971.1	971.1	981.0	981.0	981.0	971.1	971.1	967.1	909.9	898.1	894.1
60°	894.1	898.1	906.0	904.0	906.0	898.1	894.1	890.1	840.8	833.0	819.1
62.5°	813.1	817.1	819.1	815.1	819.1	817.1	813.1	801.4	771.7	765.8	748.1
65°	728.3	732.3	734.3	730.3	734.3	732.3	728.3	722.4	700.7	690.8	675.0
67.5°	641.4	639.5	637.5	645.4	637.5	639.5	641.4	633.6	619.7	611.8	590.1
70°	552.7	552.7	550.7	554.6	550.7	552.7	552.7	546.7	538.8	533.0	513.1
72.5°	457.9	456.0	463.8	457.9	463.8	456.0	457.9	456.0	452.0	446.1	426.3
75°	365.1	369.1	365.1	371.1	365.1	369.1	365.1	367.1	365.1	361.1	347.4
77.5°	278.3	282.3	278.3	278.3	278.3	282.3	278.3	280.3	280.3	280.3	268.4
80°	197.4	195.4	195.4	193.4	195.4	195.4	197.4	197.4	199.3	195.4	191.4
82.5°	126.3	124.3	124.3	128.3	124.3	124.3	126.3	128.3	124.3	124.3	124.3
85°	69.1	71.0	67.1	67.1	67.1	71.0	69.1	65.1	69.1	69.1	67.1
87.5°	25.7	23.7	23.7	23.7	23.7	23.7	25.7	27.6	27.6	27.6	29.6
90°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	15.5	20.8	23.4	20.1
92.5°	58.5	56.2	46.8	37.5	46.8	56.2	58.5	82.9	115.4	131.8	115.7
95°	198.6	191.5	163.3	135.2	163.3	191.5	198.6	260.9	343.8	385.3	325.4
97.5°	458.5	445.0	391.4	337.8	391.4	445.0	458.5	497.8	550.3	576.5	476.7
100°	643.9	628.0	564.0	500.1	564.0	628.0	643.9	641.0	637.1	635.2	524.5
102.5°	802.2	788.5	733.8	679.0	733.8	788.5	802.2	752.1	685.2	651.9	539.5
105°	986.9	979.6	950.2	920.7	950.2	979.6	986.9	874.6	724.9	650.0	541.2
107.5°	1083.0	1084.7	1091.8	1099.0	1091.8	1084.7	1083.0	926.3	717.4	613.0	517.1
110°	1107.7	1115.3	1145.9	1176.6	1145.9	1115.3	1107.7	932.6	699.0	582.3	495.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1091.9	1103.7	1150.8	1197.8	1150.8	1103.7	1091.9	912.7	673.8	554.3	477.2
115°	1038.6	1055.0	1120.2	1185.5	1120.2	1055.0	1038.6	866.0	635.8	520.7	455.8
117.5°	965.0	983.2	1055.6	1128.0	1055.6	983.2	965.0	809.2	601.5	497.6	442.4
120°	915.4	933.1	1003.4	1073.8	1003.4	933.1	915.4	773.1	583.3	488.3	437.8
122.5°	865.9	883.3	952.7	1022.0	952.7	883.3	865.9	737.7	566.7	481.3	435.5
125°	800.3	816.2	880.2	944.1	880.2	816.2	800.3	691.4	546.2	473.6	433.6
127.5°	747.6	761.0	815.0	869.0	815.0	761.0	747.6	654.1	529.5	467.1	432.5
130°	714.4	726.9	776.7	826.5	776.7	726.9	714.4	631.2	520.1	464.6	433.1
132.5°	686.0	697.2	741.8	786.4	741.8	697.2	686.0	611.5	512.2	462.5	433.6
135°	646.0	655.7	694.1	732.6	694.1	655.7	646.0	583.7	500.5	458.9	433.2
137.5°	616.4	624.3	655.9	687.3	655.9	624.3	616.4	563.6	493.3	458.2	435.8
140°	592.7	600.1	629.5	659.0	629.5	600.1	592.7	547.2	486.4	456.1	436.2
142.5°	576.1	582.5	607.8	633.1	607.8	582.5	576.1	536.0	482.8	456.1	437.8
145°	551.2	556.0	575.2	594.3	575.2	556.0	551.2	518.4	474.8	453.0	437.8
147.5°	530.3	534.3	550.1	565.9	550.1	534.3	530.3	504.5	470.1	453.0	440.8
150°	518.2	521.4	534.4	547.2	534.4	521.4	518.2	496.5	467.5	453.0	442.4
152.5°	508.7	511.0	520.8	530.6	520.8	511.0	508.7	490.1	465.3	453.0	443.4
155°	497.3	498.9	505.4	511.7	505.4	498.9	497.3	482.6	462.8	453.0	445.7
157.5°	487.4	488.5	493.1	497.6	493.1	488.5	487.4	476.0	460.6	453.0	448.0
160°	482.6	483.2	485.7	488.3	485.7	483.2	482.6	472.7	459.6	453.0	449.0
162.5°	477.9	478.5	481.0	483.5	481.0	478.5	477.9	469.6	458.6	453.0	450.1
165°	470.8	471.5	474.1	476.7	474.1	471.5	470.8	464.8	457.0	453.0	451.7
167.5°	467.7	468.0	469.1	470.2	469.1	468.0	467.7	463.8	458.7	456.1	455.0
170°	467.7	467.7	467.7	467.7	467.7	467.7	467.7	463.8	458.7	456.1	456.0
172.5°	465.2	465.0	464.0	463.1	464.0	465.0	465.2	462.1	458.1	456.1	456.1
175°	461.8	461.8	461.8	461.8	461.8	461.8	461.8	460.0	457.4	456.1	456.7
177.5°	461.2	460.9	460.0	458.9	460.0	460.9	461.2	459.8	457.7	456.7	457.2
180°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2086.2	2086.2	2086.2	2086.2	2086.2
2.5°	2060.6	2070.5	2076.4	2084.2	2104.0
5°	1981.6	2019.2	2030.9	2060.6	2096.1
7.5°	1807.9	1922.4	1954.1	2025.1	2080.3
10°	1640.2	1754.7	1809.9	1977.7	2060.6
12.5°	1555.4	1622.4	1659.9	1894.8	2032.9
15°	1502.1	1549.4	1577.1	1784.2	2001.4
17.5°	1460.5	1494.1	1513.8	1675.7	1957.9
20°	1434.9	1450.7	1468.5	1596.8	1908.6
22.5°	1417.1	1407.2	1421.1	1541.5	1841.5
25°	1405.4	1367.8	1383.6	1498.1	1762.5
27.5°	1415.2	1332.2	1338.2	1458.6	1679.7
30°	1417.1	1288.8	1290.8	1417.1	1586.9
32.5°	1403.4	1243.5	1245.4	1365.8	1482.2
35°	1369.8	1190.1	1188.2	1306.7	1340.2
37.5°	1324.4	1133.0	1133.0	1241.5	1184.2
40°	1269.1	1075.7	1081.7	1156.7	1046.1
42.5°	1202.0	1014.5	1022.4	1044.1	943.4
45°	1129.0	955.3	961.2	882.3	864.5
47.5°	1048.1	894.1	896.1	732.3	838.8
50°	951.4	831.0	823.1	627.7	836.8
52.5°	866.5	761.8	738.1	568.4	759.8
55°	783.6	688.8	637.5	523.0	704.7
57.5°	710.5	594.1	544.7	469.7	692.8
60°	643.4	501.3	463.8	412.5	635.5
62.5°	588.1	432.3	424.4	373.0	576.3
65°	529.0	384.9	382.9	339.4	489.5
67.5°	471.7	353.3	351.3	307.9	373.0
70°	410.6	319.7	315.8	274.4	276.3
72.5°	347.4	282.3	278.3	246.7	229.0
75°	284.3	238.8	236.8	215.1	185.6
77.5°	223.0	189.4	193.4	173.7	136.2
80°	159.9	138.1	142.1	124.3	102.6
82.5°	106.6	90.8	94.7	79.0	69.1
85°	59.3	51.3	53.3	41.4	31.6
87.5°	27.6	23.7	23.7	15.8	9.9
90°	13.5	8.7	8.1	5.6	3.1
92.5°	83.6	59.5	54.2	33.3	12.4
95°	205.6	115.7	106.2	67.8	29.6
97.5°	277.0	127.2	118.7	85.0	51.1
100°	302.9	136.8	129.1	98.4	67.7
102.5°	314.8	146.3	139.1	110.6	81.9
105°	323.6	160.5	154.4	130.2	106.0
107.5°	325.3	181.4	175.7	153.2	130.6
110°	322.8	193.0	187.9	167.5	147.2



TEST NUMBER: P934487

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	322.9	207.3	202.4	183.0	163.5
115°	325.9	228.5	224.0	206.1	188.1
117.5°	332.0	249.1	245.0	228.8	212.4
120°	336.8	261.2	257.3	241.9	226.6
122.5°	343.9	275.3	271.4	256.0	240.5
125°	353.5	293.4	289.9	275.8	261.7
127.5°	363.0	311.1	307.5	293.2	279.0
130°	370.0	322.7	318.9	303.6	288.2
132.5°	375.7	332.3	328.5	313.1	297.8
135°	381.9	343.3	339.8	325.9	311.9
137.5°	391.0	357.5	354.0	340.2	326.4
140°	396.7	367.0	363.8	351.2	338.4
142.5°	401.4	374.1	371.1	359.4	347.6
145°	407.7	385.0	382.4	372.1	361.8
147.5°	416.6	398.5	396.0	386.0	376.0
150°	421.4	405.6	403.3	394.3	385.3
152.5°	424.4	410.2	408.5	401.6	394.7
155°	431.2	420.3	419.0	414.0	409.0
157.5°	437.9	430.5	429.3	424.3	419.4
160°	441.0	435.1	434.1	430.3	426.5
162.5°	444.3	440.0	439.3	436.4	433.6
165°	449.1	447.1	446.4	443.8	441.2
167.5°	452.8	451.1	450.8	449.5	448.3
170°	455.9	455.8	455.5	454.2	453.0
172.5°	456.1	456.1	456.0	455.8	455.5
175°	458.0	458.9	458.9	458.9	458.9
177.5°	458.2	458.9	458.9	458.9	458.9
180°	458.9	458.9	458.9	458.9	458.9



TEST NUMBER: P934487  
 CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-2700K

**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	14.93	15.94	15.75	16.78	17.83	17.76	18.76	18.58	19.61	20.66
	3H	15.42	16.32	16.25	17.18	18.25	19.11	20.02	19.95	20.87	21.94
	4H	15.62	16.47	16.47	17.33	18.42	19.56	20.42	20.41	21.28	22.36
	6H	15.74	16.53	16.61	17.40	18.50	19.85	20.64	20.72	21.51	22.61
	8H	15.75	16.50	16.62	17.39	18.49	19.93	20.68	20.80	21.57	22.67
	12H	15.73	16.44	16.60	17.32	18.45	19.97	20.69	20.85	21.57	22.69
4H	2H	15.98	16.84	16.84	17.70	18.78	18.18	19.04	19.04	19.90	20.98
	3H	17.02	17.73	17.89	18.63	19.73	19.70	20.41	20.57	21.31	22.41
	4H	17.30	17.95	18.18	18.84	19.97	20.23	20.88	21.11	21.77	22.90
	6H	17.44	18.00	18.33	18.91	20.04	20.61	21.17	21.50	22.08	23.21
	8H	17.45	17.97	18.34	18.88	20.02	20.72	21.24	21.61	22.15	23.29
	12H	17.42	17.89	18.34	18.82	19.97	20.78	21.25	21.70	22.18	23.33
8H	4H	17.77	18.29	18.67	19.20	20.34	20.37	20.89	21.27	21.80	22.95
	6H	18.04	18.47	18.96	19.42	20.56	20.81	21.24	21.74	22.20	23.34
	8H	18.08	18.46	19.02	19.41	20.57	20.96	21.35	21.90	22.29	23.45
	12H	18.07	18.41	19.01	19.34	20.56	21.07	21.41	22.01	22.34	23.55
12H	4H	17.78	18.25	18.70	19.18	20.33	20.34	20.81	21.26	21.74	22.89
	6H	18.10	18.48	19.03	19.42	20.59	20.81	21.19	21.74	22.14	23.30
	8H	18.17	18.51	19.11	19.44	20.66	20.98	21.32	21.92	22.25	23.46