

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: P933877

Luminaire Tested: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933877
REPORT IS A COMBINATION OF REPORTS P933673 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

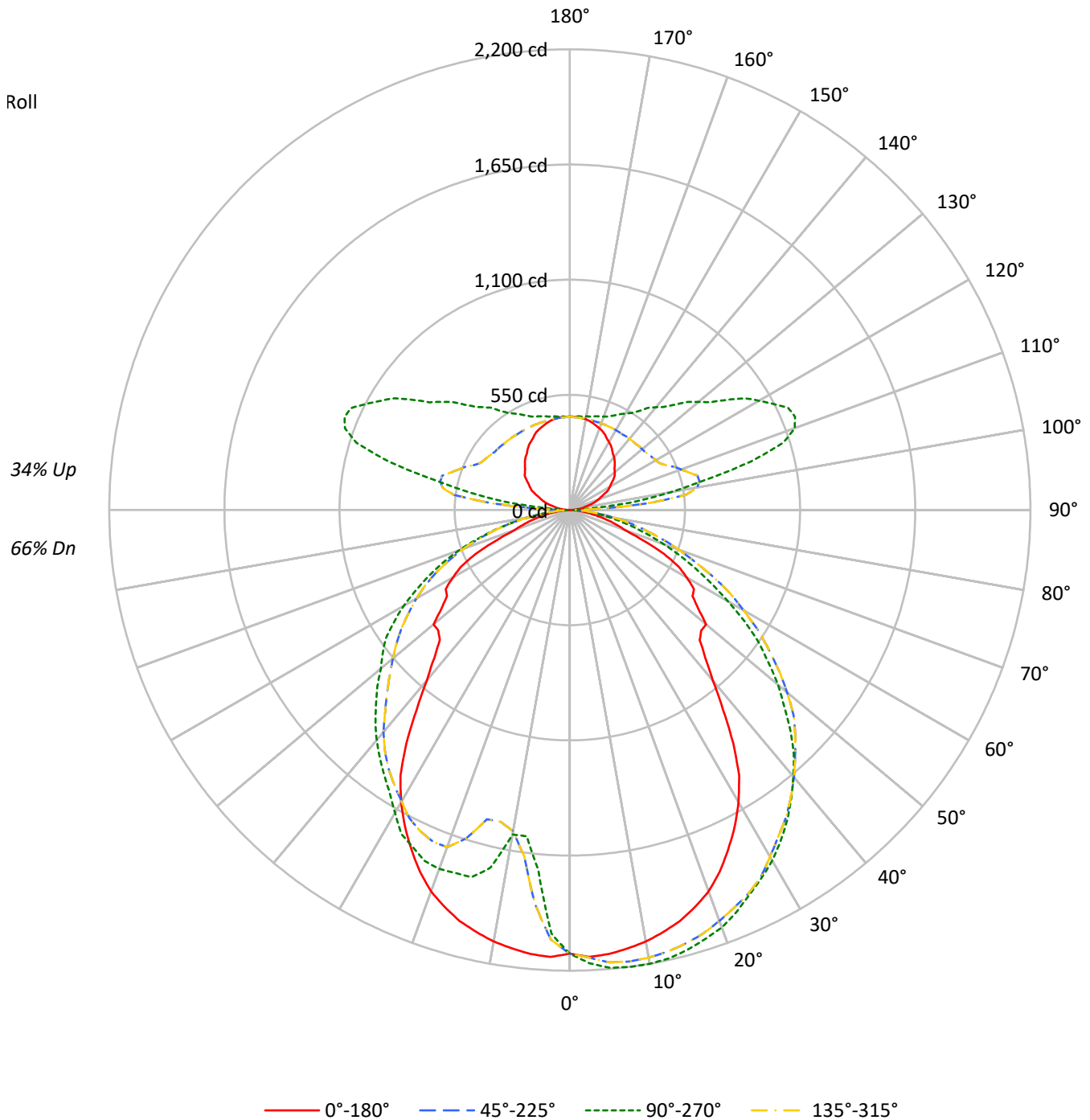
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8384.3 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): 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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6551	6551	6551	6551
5°	6603	6614	6603	5200
10°	6561	6515	6561	4658
15°	6492	6374	6492	5322
20°	6359	6206	6359	5333
25°	6084	5962	6084	5220
30°	5727	5760	5727	4972
35°	5108	5504	5108	4699
40°	4258	5202	4258	4493
45°	3808	4849	3808	4256
50°	4049	4428	4049	4019
55°	3813	3975	3813	3881
60°	3935	3376	3935	3555
65°	3574	2791	3574	3119
70°	2481	2224	2481	2615
75°	2182	1644	2182	1969
80°	1772	1087	1772	1184
85°	1040	576	1040	489

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5832 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	2.3
10°-20°	542.9	6.5
20°-30°	839.2	10.0
30°-40°	1001.8	11.9
40°-50°	1007.7	12.0
50°-60°	876.8	10.5
60°-70°	621.7	7.4
70°-80°	328.9	3.9
80°-90°	83.6	1.0
90°-100°	217.4	2.6
100°-110°	571.4	6.8
110°-120°	592.5	7.1
120°-130°	475.3	5.7
130°-140°	372.9	4.4
140°-150°	286.2	3.4
150°-160°	206.1	2.5
160°-170°	126.1	1.5
170°-180°	42.6	0.5
0°-30°	1573.2	18.8
0°-40°	2575.0	30.7
0°-60°	4459.5	53.2
0°-90°	5493.7	65.5
90°-120°	1381.3	16.5
90°-150°	2515.8	30.0
90°-180°	2891.0	34.5
0°-180°	8384.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2118	2118	2118	2118	2118	
5°	2128	2194	2128	1725	2128	202
15°	2032	2174	2032	1816	2032	572
25°	1790	2028	1790	1776	1790	822
35°	1361	1810	1361	1545	1361	842
45°	878	1491	878	1308	878	703
55°	715	1100	715	1074	715	657
65°	497	663	497	741	497	475
75°	188	315	188	377	188	198
85°	32	80	32	68	32	43
90°	3	11	3	11	3	4
95°	29	131	29	131	29	32
105°	103	895	103	895	103	109
115°	183	1152	183	1152	183	181
125°	254	918	254	918	254	226
135°	303	712	303	712	303	235
145°	352	578	352	578	352	220
155°	397	497	397	497	397	183
165°	429	463	429	463	429	121
175°	446	449	446	449	446	42
180°	446	446	446	446	446	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1
2.5°	2136.1	2136.1	2148.2	2152.2	2152.2	2146.2	2140.2	2146.2	2164.2	2170.2	2168.2
5°	2128.2	2144.2	2166.2	2170.2	2174.3	2172.3	2168.2	2172.3	2192.3	2196.3	2198.3
7.5°	2112.1	2142.2	2170.2	2176.3	2182.2	2176.3	2174.3	2178.3	2198.3	2202.3	2202.3
10°	2092.1	2134.1	2166.2	2170.2	2176.3	2170.2	2170.2	2178.3	2198.3	2202.3	2204.3
12.5°	2064.0	2122.2	2152.2	2156.2	2164.2	2162.2	2160.2	2168.2	2188.3	2192.3	2192.3
15°	2031.9	2100.1	2128.2	2132.1	2146.2	2142.2	2142.2	2150.2	2172.3	2178.3	2176.3
17.5°	1987.9	2072.1	2104.1	2110.1	2120.2	2118.1	2120.2	2128.2	2148.2	2152.2	2154.2
20°	1937.8	2033.9	2072.1	2078.1	2088.1	2088.1	2088.1	2098.1	2118.1	2126.2	2126.2
22.5°	1869.7	1993.9	2033.9	2038.0	2050.0	2050.0	2054.1	2068.0	2086.0	2088.1	2088.1
25°	1789.5	1949.8	1983.8	1995.9	2007.9	2013.9	2020.0	2028.0	2033.9	2031.9	2033.9
27.5°	1705.4	1893.7	1937.8	1945.8	1961.8	1967.8	1975.9	1977.9	1979.8	1985.8	1981.8
30°	1611.1	1815.5	1881.6	1889.7	1915.7	1919.8	1911.7	1915.7	1925.8	1929.8	1933.7
32.5°	1505.0	1699.3	1823.6	1841.6	1865.6	1853.7	1851.6	1857.6	1873.7	1873.7	1877.7
35°	1360.6	1609.1	1769.5	1785.5	1803.6	1789.5	1797.5	1799.5	1809.5	1815.5	1813.5
37.5°	1202.4	1531.0	1713.3	1725.4	1739.4	1721.4	1733.3	1739.4	1747.4	1743.4	1743.4
40°	1062.0	1408.7	1647.2	1655.3	1667.2	1653.3	1665.2	1669.3	1673.3	1669.3	1667.2
42.5°	957.9	1274.5	1577.1	1587.1	1579.1	1589.1	1593.1	1601.2	1595.1	1587.1	1587.1
45°	877.7	1238.4	1501.0	1512.9	1501.0	1517.0	1523.0	1523.0	1505.0	1501.0	1498.9
47.5°	851.7	1166.3	1424.8	1424.8	1418.8	1438.8	1448.8	1434.8	1416.8	1410.7	1410.7
50°	849.7	1086.1	1320.6	1312.5	1340.6	1364.6	1354.7	1340.6	1326.6	1304.6	1304.6
52.5°	771.5	987.9	1186.3	1216.4	1260.4	1274.5	1258.4	1244.4	1220.4	1210.3	1202.4
55°	715.4	885.7	1064.0	1124.2	1170.3	1188.3	1158.2	1144.2	1108.1	1102.2	1098.2
57.5°	703.4	737.4	951.9	1028.0	1084.1	1082.2	1064.0	1038.0	1008.0	1002.0	1000.0
60°	645.3	533.1	831.7	921.8	979.9	973.9	957.9	933.8	905.8	901.8	897.8
62.5°	585.2	386.7	695.3	797.6	879.7	877.7	863.7	827.6	807.6	797.6	789.5
65°	497.0	324.6	495.0	663.3	781.6	785.5	755.5	729.5	707.4	695.3	693.3
67.5°	378.8	264.5	334.7	553.1	687.3	683.4	645.3	633.3	605.2	599.2	587.1
70°	280.6	176.4	232.5	448.9	595.2	585.2	555.1	541.0	515.0	501.0	492.9
72.5°	232.5	142.2	170.3	348.7	501.0	488.9	462.9	446.9	424.8	412.8	404.8
75°	188.3	150.3	130.3	258.5	406.8	398.8	374.7	358.7	340.6	324.6	326.6
77.5°	138.2	140.2	104.2	190.3	322.6	310.7	296.6	276.6	268.5	252.5	252.5
80°	104.2	110.3	78.2	130.3	232.5	232.5	220.4	206.4	192.3	184.4	184.4
82.5°	70.1	70.1	58.1	82.2	158.3	152.3	144.3	140.2	132.3	128.3	128.3
85°	32.1	40.0	36.1	50.1	86.2	90.1	90.1	86.2	84.2	80.2	82.2
87.5°	10.1	18.0	22.0	28.1	44.1	46.1	48.1	48.1	48.1	50.1	50.1
90°	3.0	5.4	7.8	8.4	13.1	19.5	22.7	20.2	15.1	11.4	11.4
92.5°	12.0	32.3	52.7	57.8	81.2	112.4	128.1	112.2	80.6	56.9	54.6
95°	28.7	65.9	103.2	112.5	199.8	316.2	374.4	334.1	253.5	193.0	186.2
97.5°	49.7	82.6	115.4	123.6	269.1	463.2	560.2	534.8	483.9	445.6	432.6
100°	65.8	95.6	125.4	132.9	294.4	509.8	617.4	619.3	623.0	625.8	610.2
102.5°	79.6	107.4	135.2	142.1	306.0	524.4	633.6	666.0	730.9	779.6	766.2
105°	103.0	126.5	150.0	155.9	314.5	526.0	631.8	704.5	850.0	959.1	952.0
107.5°	126.9	148.8	170.8	176.3	316.1	502.6	595.8	697.3	900.3	1052.6	1054.3
110°	143.0	162.8	182.7	187.6	313.7	481.9	565.9	679.4	906.3	1076.5	1083.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	159.0	177.8	196.7	201.4	313.8	463.7	538.7	654.9	887.0	1061.2	1072.7
115°	182.9	200.3	217.7	222.1	316.7	442.9	506.1	617.9	841.6	1009.4	1025.3
117.5°	206.5	222.3	238.1	242.1	322.6	430.0	483.7	584.7	786.5	937.9	955.6
120°	220.2	235.2	250.1	253.8	327.4	425.5	474.6	566.8	751.4	889.7	906.9
122.5°	233.8	248.8	263.7	267.5	334.3	423.2	467.7	550.8	716.9	841.5	858.4
125°	254.4	268.1	281.9	285.3	343.6	421.4	460.3	530.8	671.9	777.8	793.3
127.5°	271.1	285.0	298.8	302.3	352.9	420.3	454.0	514.5	635.7	726.6	739.7
130°	280.1	295.0	310.0	313.6	359.7	420.9	451.6	505.6	613.4	694.3	706.5
132.5°	289.4	304.3	319.2	322.9	365.1	421.4	449.5	497.8	594.4	666.8	677.7
135°	303.2	316.7	330.3	333.7	371.1	421.0	445.9	486.3	567.2	627.9	637.2
137.5°	317.2	330.7	344.0	347.4	380.1	423.6	445.3	479.5	547.8	599.1	606.8
140°	328.9	341.2	353.7	356.8	385.6	424.0	443.2	472.7	531.8	576.1	583.3
142.5°	337.8	349.3	360.8	363.6	390.1	425.5	443.2	469.1	521.0	560.0	566.1
145°	351.7	361.6	371.6	374.1	396.1	425.5	440.2	461.4	503.9	535.6	540.3
147.5°	365.4	375.1	384.9	387.2	404.9	428.5	440.2	457.0	490.3	515.3	519.2
150°	374.4	383.2	391.9	394.1	409.5	430.0	440.2	454.4	482.6	503.7	506.8
152.5°	383.7	390.3	396.9	398.6	412.4	431.0	440.2	452.3	476.4	494.4	496.8
155°	397.4	402.3	407.3	408.5	419.0	433.2	440.2	449.8	469.0	483.4	485.0
157.5°	407.6	412.3	417.2	418.4	425.7	435.4	440.2	447.7	462.5	473.7	474.8
160°	414.5	418.2	422.0	422.9	428.7	436.3	440.2	446.6	459.4	468.9	469.5
162.5°	421.4	424.2	427.0	427.7	431.9	437.4	440.2	445.6	456.4	464.4	465.0
165°	428.9	431.4	434.0	434.6	436.4	438.9	440.2	444.1	451.8	457.6	458.2
167.5°	435.8	436.9	438.1	438.4	440.0	442.1	443.2	445.7	450.8	454.6	454.9
170°	440.2	441.4	442.6	442.9	443.0	443.1	443.2	445.7	450.8	454.6	454.6
172.5°	442.6	442.9	443.1	443.2	443.2	443.2	443.2	445.2	449.2	452.2	452.0
175°	445.9	445.9	445.9	445.9	445.0	443.8	443.2	444.5	447.0	448.9	448.9
177.5°	445.9	445.9	445.9	445.9	445.2	444.3	443.8	444.8	446.8	448.3	448.0
180°	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1
2.5°	2172.3	2166.2	2172.3	2168.2	2170.2	2164.2	2146.2	2140.2	2146.2	2152.2	2152.2
5°	2198.3	2194.3	2198.3	2198.3	2196.3	2192.3	2172.3	2168.2	2172.3	2174.3	2170.2
7.5°	2206.3	2200.3	2206.3	2202.3	2202.3	2198.3	2178.3	2174.3	2176.3	2182.2	2176.3
10°	2206.3	2200.3	2206.3	2204.3	2202.3	2198.3	2178.3	2170.2	2170.2	2176.3	2170.2
12.5°	2196.3	2192.3	2196.3	2192.3	2192.3	2188.3	2168.2	2160.2	2162.2	2164.2	2156.2
15°	2180.2	2174.3	2180.2	2176.3	2178.3	2172.3	2150.2	2142.2	2142.2	2146.2	2132.1
17.5°	2156.2	2148.2	2156.2	2154.2	2152.2	2148.2	2128.2	2120.2	2118.1	2120.2	2110.1
20°	2128.2	2122.2	2128.2	2126.2	2126.2	2118.1	2098.1	2088.1	2088.1	2088.1	2078.1
22.5°	2084.0	2078.1	2084.0	2088.1	2088.1	2086.0	2068.0	2054.1	2050.0	2050.0	2038.0
25°	2033.9	2028.0	2033.9	2033.9	2031.9	2033.9	2028.0	2020.0	2013.9	2007.9	1995.9
27.5°	1985.8	1981.8	1985.8	1981.8	1985.8	1979.8	1977.9	1975.9	1967.8	1961.8	1945.8
30°	1937.8	1933.7	1937.8	1933.7	1929.8	1925.8	1915.7	1911.7	1919.8	1915.7	1889.7
32.5°	1877.7	1873.7	1877.7	1877.7	1873.7	1873.7	1857.6	1851.6	1853.7	1865.6	1841.6
35°	1815.5	1809.5	1815.5	1813.5	1815.5	1809.5	1799.5	1797.5	1789.5	1803.6	1785.5
37.5°	1743.4	1737.4	1743.4	1743.4	1743.4	1747.4	1739.4	1733.3	1721.4	1739.4	1725.4
40°	1669.3	1661.2	1669.3	1667.2	1669.3	1673.3	1669.3	1665.2	1653.3	1667.2	1655.3
42.5°	1585.1	1583.0	1585.1	1587.1	1587.1	1595.1	1601.2	1593.1	1589.1	1579.1	1587.1
45°	1494.9	1490.9	1494.9	1498.9	1501.0	1505.0	1523.0	1523.0	1517.0	1501.0	1512.9
47.5°	1398.7	1388.7	1398.7	1410.7	1410.7	1416.8	1434.8	1448.8	1438.8	1418.8	1424.8
50°	1296.5	1298.5	1296.5	1304.6	1304.6	1326.6	1340.6	1354.7	1364.6	1340.6	1312.5
52.5°	1196.3	1194.3	1196.3	1202.4	1210.3	1220.4	1244.4	1258.4	1274.5	1260.4	1216.4
55°	1096.1	1100.2	1096.1	1098.2	1102.2	1108.1	1144.2	1158.2	1188.3	1170.3	1124.2
57.5°	995.9	989.9	995.9	1000.0	1002.0	1008.0	1038.0	1064.0	1082.2	1084.1	1028.0
60°	879.7	871.7	879.7	897.8	901.8	905.8	933.8	957.9	973.9	979.9	921.8
62.5°	777.5	763.5	777.5	789.5	797.6	807.6	827.6	863.7	877.7	879.7	797.6
65°	669.3	663.3	669.3	693.3	695.3	707.4	729.5	755.5	785.5	781.6	663.3
67.5°	571.1	571.1	571.1	587.1	599.2	605.2	633.3	645.3	683.4	687.3	553.1
70°	481.0	479.0	481.0	492.9	501.0	515.0	541.0	555.1	585.2	595.2	448.9
72.5°	394.8	392.7	394.8	404.8	412.8	424.8	446.9	462.9	488.9	501.0	348.7
75°	318.6	314.6	318.6	326.6	324.6	340.6	358.7	374.7	398.8	406.8	258.5
77.5°	244.5	244.5	244.5	252.5	252.5	268.5	276.6	296.6	310.7	322.6	190.3
80°	182.4	180.4	182.4	184.4	184.4	192.3	206.4	220.4	232.5	232.5	130.3
82.5°	128.3	124.2	128.3	128.3	128.3	132.3	140.2	144.3	152.3	158.3	82.2
85°	80.2	80.2	80.2	82.2	80.2	84.2	86.2	90.1	90.1	86.2	50.1
87.5°	52.1	50.1	52.1	50.1	50.1	48.1	48.1	48.1	46.1	44.1	28.1
90°	11.4	11.4	11.4	11.4	11.4	15.1	20.2	22.7	19.5	13.1	8.4
92.5°	45.6	36.6	45.6	54.6	56.9	80.6	112.2	128.1	112.4	81.2	57.8
95°	158.8	131.4	158.8	186.2	193.0	253.5	334.1	374.4	316.2	199.8	112.5
97.5°	380.5	328.3	380.5	432.6	445.6	483.9	534.8	560.2	463.2	269.1	123.6
100°	548.2	486.0	548.2	610.2	625.8	623.0	619.3	617.4	509.8	294.4	132.9
102.5°	713.0	659.8	713.0	766.2	779.6	730.9	666.0	633.6	524.4	306.0	142.1
105°	923.4	894.8	923.4	952.0	959.1	850.0	704.5	631.8	526.0	314.5	155.9
107.5°	1061.2	1068.1	1061.2	1054.3	1052.6	900.3	697.3	595.8	502.6	316.1	176.3
110°	1113.7	1143.5	1113.7	1083.9	1076.5	906.3	679.4	565.9	481.9	313.7	187.6



TEST NUMBER: P933877

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1118.4	1164.1	1118.4	1072.7	1061.2	887.0	654.9	538.7	463.7	313.8	201.4
115°	1088.7	1152.2	1088.7	1025.3	1009.4	841.6	617.9	506.1	442.9	316.7	222.1
117.5°	1025.9	1096.2	1025.9	955.6	937.9	786.5	584.7	483.7	430.0	322.6	242.1
120°	975.2	1043.5	975.2	906.9	889.7	751.4	566.8	474.6	425.5	327.4	253.8
122.5°	925.9	993.3	925.9	858.4	841.5	716.9	550.8	467.7	423.2	334.3	267.5
125°	855.4	917.5	855.4	793.3	777.8	671.9	530.8	460.3	421.4	343.6	285.3
127.5°	792.1	844.5	792.1	739.7	726.6	635.7	514.5	454.0	420.3	352.9	302.3
130°	754.9	803.3	754.9	706.5	694.3	613.4	505.6	451.6	420.9	359.7	313.6
132.5°	721.0	764.3	721.0	677.7	666.8	594.4	497.8	449.5	421.4	365.1	322.9
135°	674.6	711.9	674.6	637.2	627.9	567.2	486.3	445.9	421.0	371.1	333.7
137.5°	637.3	668.0	637.3	606.8	599.1	547.8	479.5	445.3	423.6	380.1	347.4
140°	611.8	640.4	611.8	583.3	576.1	531.8	472.7	443.2	424.0	385.6	356.8
142.5°	590.7	615.3	590.7	566.1	560.0	521.0	469.1	443.2	425.5	390.1	363.6
145°	559.0	577.6	559.0	540.3	535.6	503.9	461.4	440.2	425.5	396.1	374.1
147.5°	534.7	550.1	534.7	519.2	515.3	490.3	457.0	440.2	428.5	404.9	387.2
150°	519.3	531.8	519.3	506.8	503.7	482.6	454.4	440.2	430.0	409.5	394.1
152.5°	506.2	515.6	506.2	496.8	494.4	476.4	452.3	440.2	431.0	412.4	398.6
155°	491.1	497.4	491.1	485.0	483.4	469.0	449.8	440.2	433.2	419.0	408.5
157.5°	479.3	483.7	479.3	474.8	473.7	462.5	447.7	440.2	435.4	425.7	418.4
160°	472.1	474.6	472.1	469.5	468.9	459.4	446.6	440.2	436.3	428.7	422.9
162.5°	467.4	469.8	467.4	465.0	464.4	456.4	445.6	440.2	437.4	431.9	427.7
165°	460.7	463.2	460.7	458.2	457.6	451.8	444.1	440.2	438.9	436.4	434.6
167.5°	455.9	457.0	455.9	454.9	454.6	450.8	445.7	443.2	442.1	440.0	438.4
170°	454.6	454.6	454.6	454.6	454.6	450.8	445.7	443.2	443.1	443.0	442.9
172.5°	451.0	450.1	451.0	452.0	452.2	449.2	445.2	443.2	443.2	443.2	443.2
175°	448.9	448.9	448.9	448.9	448.9	447.0	444.5	443.2	443.8	445.0	445.9
177.5°	447.0	445.9	447.0	448.0	448.3	446.8	444.8	443.8	444.3	445.2	445.9
180°	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9



TEST NUMBER: P933877

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1
2.5°	2148.2	2136.1	2136.1	2116.1	2108.1	2102.1	2092.1	2062.0	2054.1	2046.0	2058.0
5°	2166.2	2144.2	2128.2	2092.1	2062.0	2050.0	2011.9	1939.8	1891.7	1855.6	1835.6
7.5°	2170.2	2142.2	2112.1	2056.0	1983.8	1951.8	1835.6	1703.4	1667.2	1635.2	1615.1
10°	2166.2	2134.1	2092.1	2007.9	1837.6	1781.4	1665.2	1579.1	1557.0	1551.1	1557.0
12.5°	2152.2	2122.2	2064.0	1923.8	1685.3	1647.2	1579.1	1529.0	1525.0	1535.0	1589.1
15°	2128.2	2100.1	2031.9	1811.5	1601.2	1573.1	1525.0	1506.9	1529.0	1599.1	1761.4
17.5°	2104.1	2072.1	1987.9	1701.4	1537.0	1517.0	1482.8	1519.0	1643.2	1737.4	1791.5
20°	2072.1	2033.9	1937.8	1621.2	1490.9	1472.9	1456.8	1619.2	1713.3	1747.4	1777.5
22.5°	2033.9	1993.9	1869.7	1565.0	1442.8	1428.8	1438.8	1675.3	1713.3	1737.4	1763.4
25°	1983.8	1949.8	1789.5	1521.0	1404.8	1388.7	1426.8	1669.3	1691.3	1697.3	1749.4
27.5°	1937.8	1893.7	1705.4	1480.9	1358.6	1352.7	1436.8	1643.2	1659.2	1665.2	1721.4
30°	1881.6	1815.5	1611.1	1438.8	1310.5	1308.5	1438.8	1611.1	1607.1	1623.2	1679.3
32.5°	1823.6	1699.3	1505.0	1386.7	1264.4	1262.4	1424.8	1563.0	1559.0	1581.1	1623.2
35°	1769.5	1609.1	1360.6	1326.6	1206.4	1208.3	1390.7	1506.9	1508.9	1529.0	1555.1
37.5°	1713.3	1531.0	1202.4	1260.4	1150.3	1150.3	1344.6	1454.9	1450.9	1456.8	1492.9
40°	1647.2	1408.7	1062.0	1174.3	1098.2	1092.1	1288.5	1398.7	1384.7	1382.7	1432.7
42.5°	1577.1	1274.5	957.9	1060.0	1038.0	1030.0	1220.4	1330.6	1304.6	1310.5	1374.7
45°	1501.0	1238.4	877.7	895.7	975.9	969.9	1146.2	1252.5	1234.4	1250.5	1316.6
47.5°	1424.8	1166.3	851.7	743.4	909.7	907.8	1064.0	1176.3	1166.3	1182.4	1252.5
50°	1320.6	1086.1	849.7	637.2	835.6	843.6	965.9	1102.2	1102.2	1116.2	1190.3
52.5°	1186.3	987.9	771.5	577.1	749.5	773.5	879.7	1038.0	1042.0	1056.1	1122.2
55°	1064.0	885.7	715.4	531.1	647.3	699.4	795.5	971.9	979.9	993.9	1054.1
57.5°	951.9	737.4	703.4	476.9	553.1	603.2	721.4	907.8	911.7	923.8	982.0
60°	831.7	533.1	645.3	418.8	470.9	509.0	653.3	831.7	845.6	853.7	903.8
62.5°	695.3	386.7	585.2	378.8	430.9	438.8	597.2	759.4	777.5	783.6	813.6
65°	495.0	324.6	497.0	344.7	388.7	390.7	537.0	685.3	701.4	711.3	733.5
67.5°	334.7	264.5	378.8	312.6	356.7	358.7	479.0	599.2	621.2	629.3	643.2
70°	232.5	176.4	280.6	278.6	320.6	324.6	416.8	521.0	541.0	547.1	555.1
72.5°	170.3	142.2	232.5	250.5	282.6	286.5	352.7	432.9	452.9	458.9	462.9
75°	130.3	150.3	188.3	218.4	240.4	242.4	288.5	352.7	366.7	370.7	372.7
77.5°	104.2	140.2	138.2	176.4	196.4	192.3	226.5	272.5	284.6	284.6	284.6
80°	78.2	110.3	104.2	126.3	144.3	140.2	162.3	194.4	198.4	202.4	200.4
82.5°	58.1	70.1	70.1	80.2	96.2	92.2	108.2	126.3	126.3	126.3	130.3
85°	36.1	40.0	32.1	42.1	54.1	52.1	60.2	68.1	70.1	70.1	66.1
87.5°	22.0	18.0	10.1	16.0	24.0	24.0	28.1	30.1	28.1	28.1	28.1
90°	7.8	5.4	3.0	5.4	7.8	8.4	13.1	19.5	22.7	20.2	15.1
92.5°	52.7	32.3	12.0	32.3	52.7	57.8	81.2	112.4	128.1	112.2	80.6
95°	103.2	65.9	28.7	65.9	103.2	112.5	199.8	316.2	374.4	334.1	253.5
97.5°	115.4	82.6	49.7	82.6	115.4	123.6	269.1	463.2	560.2	534.8	483.9
100°	125.4	95.6	65.8	95.6	125.4	132.9	294.4	509.8	617.4	619.3	623.0
102.5°	135.2	107.4	79.6	107.4	135.2	142.1	306.0	524.4	633.6	666.0	730.9
105°	150.0	126.5	103.0	126.5	150.0	155.9	314.5	526.0	631.8	704.5	850.0
107.5°	170.8	148.8	126.9	148.8	170.8	176.3	316.1	502.6	595.8	697.3	900.3
110°	182.7	162.8	143.0	162.8	182.7	187.6	313.7	481.9	565.9	679.4	906.3



TEST NUMBER: P933877

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	196.7	177.8	159.0	177.8	196.7	201.4	313.8	463.7	538.7	654.9	887.0
115°	217.7	200.3	182.9	200.3	217.7	222.1	316.7	442.9	506.1	617.9	841.6
117.5°	238.1	222.3	206.5	222.3	238.1	242.1	322.6	430.0	483.7	584.7	786.5
120°	250.1	235.2	220.2	235.2	250.1	253.8	327.4	425.5	474.6	566.8	751.4
122.5°	263.7	248.8	233.8	248.8	263.7	267.5	334.3	423.2	467.7	550.8	716.9
125°	281.9	268.1	254.4	268.1	281.9	285.3	343.6	421.4	460.3	530.8	671.9
127.5°	298.8	285.0	271.1	285.0	298.8	302.3	352.9	420.3	454.0	514.5	635.7
130°	310.0	295.0	280.1	295.0	310.0	313.6	359.7	420.9	451.6	505.6	613.4
132.5°	319.2	304.3	289.4	304.3	319.2	322.9	365.1	421.4	449.5	497.8	594.4
135°	330.3	316.7	303.2	316.7	330.3	333.7	371.1	421.0	445.9	486.3	567.2
137.5°	344.0	330.7	317.2	330.7	344.0	347.4	380.1	423.6	445.3	479.5	547.8
140°	353.7	341.2	328.9	341.2	353.7	356.8	385.6	424.0	443.2	472.7	531.8
142.5°	360.8	349.3	337.8	349.3	360.8	363.6	390.1	425.5	443.2	469.1	521.0
145°	371.6	361.6	351.7	361.6	371.6	374.1	396.1	425.5	440.2	461.4	503.9
147.5°	384.9	375.1	365.4	375.1	384.9	387.2	404.9	428.5	440.2	457.0	490.3
150°	391.9	383.2	374.4	383.2	391.9	394.1	409.5	430.0	440.2	454.4	482.6
152.5°	396.9	390.3	383.7	390.3	396.9	398.6	412.4	431.0	440.2	452.3	476.4
155°	407.3	402.3	397.4	402.3	407.3	408.5	419.0	433.2	440.2	449.8	469.0
157.5°	417.2	412.3	407.6	412.3	417.2	418.4	425.7	435.4	440.2	447.7	462.5
160°	422.0	418.2	414.5	418.2	422.0	422.9	428.7	436.3	440.2	446.6	459.4
162.5°	427.0	424.2	421.4	424.2	427.0	427.7	431.9	437.4	440.2	445.6	456.4
165°	434.0	431.4	428.9	431.4	434.0	434.6	436.4	438.9	440.2	444.1	451.8
167.5°	438.1	436.9	435.8	436.9	438.1	438.4	440.0	442.1	443.2	445.7	450.8
170°	442.6	441.4	440.2	441.4	442.6	442.9	443.0	443.1	443.2	445.7	450.8
172.5°	443.1	442.9	442.6	442.9	443.1	443.2	443.2	443.2	443.2	445.2	449.2
175°	445.9	445.9	445.9	445.9	445.9	445.9	445.0	443.8	443.2	444.5	447.0
177.5°	445.9	445.9	445.9	445.9	445.9	445.9	445.2	444.3	443.8	444.8	446.8
180°	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9



TEST NUMBER: P933877

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1
2.5°	2044.0	2038.0	2046.0	2024.0	2046.0	2038.0	2044.0	2058.0	2046.0	2054.1	2062.0
5°	1793.5	1783.4	1751.5	1725.4	1751.5	1783.4	1793.5	1835.6	1855.6	1891.7	1939.8
7.5°	1603.2	1595.1	1587.1	1571.1	1587.1	1595.1	1603.2	1615.1	1635.2	1667.2	1703.4
10°	1561.0	1563.0	1575.1	1573.1	1575.1	1563.0	1561.0	1557.0	1551.1	1557.0	1579.1
12.5°	1669.3	1687.3	1753.5	1749.4	1753.5	1687.3	1669.3	1589.1	1535.0	1525.0	1529.0
15°	1793.5	1799.5	1813.5	1815.5	1813.5	1799.5	1793.5	1761.4	1599.1	1529.0	1506.9
17.5°	1805.5	1807.5	1817.5	1817.5	1817.5	1807.5	1805.5	1791.5	1737.4	1643.2	1519.0
20°	1795.5	1799.5	1819.6	1823.6	1819.6	1799.5	1795.5	1777.5	1747.4	1713.3	1619.2
22.5°	1791.5	1799.5	1815.5	1813.5	1815.5	1799.5	1791.5	1763.4	1737.4	1713.3	1675.3
25°	1771.5	1771.5	1773.5	1775.5	1773.5	1771.5	1771.5	1749.4	1697.3	1691.3	1669.3
27.5°	1729.4	1733.3	1745.4	1743.4	1745.4	1733.3	1729.4	1721.4	1665.2	1659.2	1643.2
30°	1691.3	1687.3	1677.3	1669.3	1677.3	1687.3	1691.3	1679.3	1623.2	1607.1	1611.1
32.5°	1627.2	1617.1	1607.1	1601.2	1607.1	1617.1	1627.2	1623.2	1581.1	1559.0	1563.0
35°	1551.1	1553.1	1551.1	1545.0	1551.1	1553.1	1551.1	1555.1	1529.0	1508.9	1506.9
37.5°	1496.9	1501.0	1498.9	1490.9	1498.9	1501.0	1496.9	1492.9	1456.8	1450.9	1454.9
40°	1440.8	1442.8	1440.8	1434.8	1440.8	1442.8	1440.8	1432.7	1382.7	1384.7	1398.7
42.5°	1386.7	1384.7	1378.7	1374.7	1378.7	1384.7	1386.7	1374.7	1310.5	1304.6	1330.6
45°	1324.6	1326.6	1314.5	1308.5	1314.5	1326.6	1324.6	1316.6	1250.5	1234.4	1252.5
47.5°	1262.4	1262.4	1252.5	1246.4	1252.5	1262.4	1262.4	1252.5	1182.4	1166.3	1176.3
50°	1196.3	1194.3	1180.3	1178.3	1180.3	1194.3	1196.3	1190.3	1116.2	1102.2	1102.2
52.5°	1120.2	1120.2	1122.2	1126.2	1122.2	1120.2	1120.2	1122.2	1056.1	1042.0	1038.0
55°	1054.1	1056.1	1070.1	1074.1	1070.1	1056.1	1054.1	1054.1	993.9	979.9	971.9
57.5°	985.9	985.9	995.9	995.9	995.9	985.9	985.9	982.0	923.8	911.7	907.8
60°	907.8	911.7	919.8	917.8	919.8	911.7	907.8	903.8	853.7	845.6	831.7
62.5°	825.6	829.7	831.7	827.6	831.7	829.7	825.6	813.6	783.6	777.5	759.4
65°	739.4	743.4	745.4	741.4	745.4	743.4	739.4	733.5	711.3	701.4	685.3
67.5°	651.3	649.3	647.3	655.3	647.3	649.3	651.3	643.2	629.3	621.2	599.2
70°	561.0	561.0	559.1	563.1	559.1	561.0	561.0	555.1	547.1	541.0	521.0
72.5°	464.9	462.9	470.9	464.9	470.9	462.9	464.9	462.9	458.9	452.9	432.9
75°	370.7	374.7	370.7	376.7	370.7	374.7	370.7	372.7	370.7	366.7	352.7
77.5°	282.6	286.5	282.6	282.6	282.6	286.5	282.6	284.6	284.6	284.6	272.5
80°	200.4	198.4	198.4	196.4	198.4	198.4	200.4	200.4	202.4	198.4	194.4
82.5°	128.3	126.3	126.3	130.3	126.3	126.3	128.3	130.3	126.3	126.3	126.3
85°	70.1	72.1	68.1	68.1	68.1	72.1	70.1	66.1	70.1	70.1	68.1
87.5°	26.1	24.0	24.0	24.0	24.0	24.0	26.1	28.1	28.1	28.1	30.1
90°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	15.1	20.2	22.7	19.5
92.5°	56.9	54.6	45.6	36.6	45.6	54.6	56.9	80.6	112.2	128.1	112.4
95°	193.0	186.2	158.8	131.4	158.8	186.2	193.0	253.5	334.1	374.4	316.2
97.5°	445.6	432.6	380.5	328.3	380.5	432.6	445.6	483.9	534.8	560.2	463.2
100°	625.8	610.2	548.2	486.0	548.2	610.2	625.8	623.0	619.3	617.4	509.8
102.5°	779.6	766.2	713.0	659.8	713.0	766.2	779.6	730.9	666.0	633.6	524.4
105°	959.1	952.0	923.4	894.8	923.4	952.0	959.1	850.0	704.5	631.8	526.0
107.5°	1052.6	1054.3	1061.2	1068.1	1061.2	1054.3	1052.6	900.3	697.3	595.8	502.6
110°	1076.5	1083.9	1113.7	1143.5	1113.7	1083.9	1076.5	906.3	679.4	565.9	481.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1061.2	1072.7	1118.4	1164.1	1118.4	1072.7	1061.2	887.0	654.9	538.7	463.7
115°	1009.4	1025.3	1088.7	1152.2	1088.7	1025.3	1009.4	841.6	617.9	506.1	442.9
117.5°	937.9	955.6	1025.9	1096.2	1025.9	955.6	937.9	786.5	584.7	483.7	430.0
120°	889.7	906.9	975.2	1043.5	975.2	906.9	889.7	751.4	566.8	474.6	425.5
122.5°	841.5	858.4	925.9	993.3	925.9	858.4	841.5	716.9	550.8	467.7	423.2
125°	777.8	793.3	855.4	917.5	855.4	793.3	777.8	671.9	530.8	460.3	421.4
127.5°	726.6	739.7	792.1	844.5	792.1	739.7	726.6	635.7	514.5	454.0	420.3
130°	694.3	706.5	754.9	803.3	754.9	706.5	694.3	613.4	505.6	451.6	420.9
132.5°	666.8	677.7	721.0	764.3	721.0	677.7	666.8	594.4	497.8	449.5	421.4
135°	627.9	637.2	674.6	711.9	674.6	637.2	627.9	567.2	486.3	445.9	421.0
137.5°	599.1	606.8	637.3	668.0	637.3	606.8	599.1	547.8	479.5	445.3	423.6
140°	576.1	583.3	611.8	640.4	611.8	583.3	576.1	531.8	472.7	443.2	424.0
142.5°	560.0	566.1	590.7	615.3	590.7	566.1	560.0	521.0	469.1	443.2	425.5
145°	535.6	540.3	559.0	577.6	559.0	540.3	535.6	503.9	461.4	440.2	425.5
147.5°	515.3	519.2	534.7	550.1	534.7	519.2	515.3	490.3	457.0	440.2	428.5
150°	503.7	506.8	519.3	531.8	519.3	506.8	503.7	482.6	454.4	440.2	430.0
152.5°	494.4	496.8	506.2	515.6	506.2	496.8	494.4	476.4	452.3	440.2	431.0
155°	483.4	485.0	491.1	497.4	491.1	485.0	483.4	469.0	449.8	440.2	433.2
157.5°	473.7	474.8	479.3	483.7	479.3	474.8	473.7	462.5	447.7	440.2	435.4
160°	468.9	469.5	472.1	474.6	472.1	469.5	468.9	459.4	446.6	440.2	436.3
162.5°	464.4	465.0	467.4	469.8	467.4	465.0	464.4	456.4	445.6	440.2	437.4
165°	457.6	458.2	460.7	463.2	460.7	458.2	457.6	451.8	444.1	440.2	438.9
167.5°	454.6	454.9	455.9	457.0	455.9	454.9	454.6	450.8	445.7	443.2	442.1
170°	454.6	454.6	454.6	454.6	454.6	454.6	454.6	450.8	445.7	443.2	443.1
172.5°	452.2	452.0	451.0	450.1	451.0	452.0	452.2	449.2	445.2	443.2	443.2
175°	448.9	448.9	448.9	448.9	448.9	448.9	448.9	447.0	444.5	443.2	443.8
177.5°	448.3	448.0	447.0	445.9	447.0	448.0	448.3	446.8	444.8	443.8	444.3
180°	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9	445.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2118.1	2118.1	2118.1	2118.1	2118.1
2.5°	2092.1	2102.1	2108.1	2116.1	2136.1
5°	2011.9	2050.0	2062.0	2092.1	2128.2
7.5°	1835.6	1951.8	1983.8	2056.0	2112.1
10°	1665.2	1781.4	1837.6	2007.9	2092.1
12.5°	1579.1	1647.2	1685.3	1923.8	2064.0
15°	1525.0	1573.1	1601.2	1811.5	2031.9
17.5°	1482.8	1517.0	1537.0	1701.4	1987.9
20°	1456.8	1472.9	1490.9	1621.2	1937.8
22.5°	1438.8	1428.8	1442.8	1565.0	1869.7
25°	1426.8	1388.7	1404.8	1521.0	1789.5
27.5°	1436.8	1352.7	1358.6	1480.9	1705.4
30°	1438.8	1308.5	1310.5	1438.8	1611.1
32.5°	1424.8	1262.4	1264.4	1386.7	1505.0
35°	1390.7	1208.3	1206.4	1326.6	1360.6
37.5°	1344.6	1150.3	1150.3	1260.4	1202.4
40°	1288.5	1092.1	1098.2	1174.3	1062.0
42.5°	1220.4	1030.0	1038.0	1060.0	957.9
45°	1146.2	969.9	975.9	895.7	877.7
47.5°	1064.0	907.8	909.7	743.4	851.7
50°	965.9	843.6	835.6	637.2	849.7
52.5°	879.7	773.5	749.5	577.1	771.5
55°	795.5	699.4	647.3	531.1	715.4
57.5°	721.4	603.2	553.1	476.9	703.4
60°	653.3	509.0	470.9	418.8	645.3
62.5°	597.2	438.8	430.9	378.8	585.2
65°	537.0	390.7	388.7	344.7	497.0
67.5°	479.0	358.7	356.7	312.6	378.8
70°	416.8	324.6	320.6	278.6	280.6
72.5°	352.7	286.5	282.6	250.5	232.5
75°	288.5	242.4	240.4	218.4	188.3
77.5°	226.5	192.3	196.4	176.4	138.2
80°	162.3	140.2	144.3	126.3	104.2
82.5°	108.2	92.2	96.2	80.2	70.1
85°	60.2	52.1	54.1	42.1	32.1
87.5°	28.1	24.0	24.0	16.0	10.1
90°	13.1	8.4	7.8	5.4	3.0
92.5°	81.2	57.8	52.7	32.3	12.0
95°	199.8	112.5	103.2	65.9	28.7
97.5°	269.1	123.6	115.4	82.6	49.7
100°	294.4	132.9	125.4	95.6	65.8
102.5°	306.0	142.1	135.2	107.4	79.6
105°	314.5	155.9	150.0	126.5	103.0
107.5°	316.1	176.3	170.8	148.8	126.9
110°	313.7	187.6	182.7	162.8	143.0



TEST NUMBER: P933877

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	313.8	201.4	196.7	177.8	159.0
115°	316.7	222.1	217.7	200.3	182.9
117.5°	322.6	242.1	238.1	222.3	206.5
120°	327.4	253.8	250.1	235.2	220.2
122.5°	334.3	267.5	263.7	248.8	233.8
125°	343.6	285.3	281.9	268.1	254.4
127.5°	352.9	302.3	298.8	285.0	271.1
130°	359.7	313.6	310.0	295.0	280.1
132.5°	365.1	322.9	319.2	304.3	289.4
135°	371.1	333.7	330.3	316.7	303.2
137.5°	380.1	347.4	344.0	330.7	317.2
140°	385.6	356.8	353.7	341.2	328.9
142.5°	390.1	363.6	360.8	349.3	337.8
145°	396.1	374.1	371.6	361.6	351.7
147.5°	404.9	387.2	384.9	375.1	365.4
150°	409.5	394.1	391.9	383.2	374.4
152.5°	412.4	398.6	396.9	390.3	383.7
155°	419.0	408.5	407.3	402.3	397.4
157.5°	425.7	418.4	417.2	412.3	407.6
160°	428.7	422.9	422.0	418.2	414.5
162.5°	431.9	427.7	427.0	424.2	421.4
165°	436.4	434.6	434.0	431.4	428.9
167.5°	440.0	438.4	438.1	436.9	435.8
170°	443.0	442.9	442.6	441.4	440.2
172.5°	443.2	443.2	443.1	442.9	442.6
175°	445.0	445.9	445.9	445.9	445.9
177.5°	445.2	445.9	445.9	445.9	445.9
180°	445.9	445.9	445.9	445.9	445.9



TEST NUMBER: P933877
 CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-2700K

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	12.66	13.68	13.48	14.52	15.55	15.52	16.54	16.33	17.37	18.40
	3H	13.15	14.07	13.98	14.91	15.97	16.88	17.80	17.70	18.64	19.70
	4H	13.35	14.22	14.19	15.07	16.14	17.34	18.20	18.18	19.05	20.12
	6H	13.48	14.28	14.33	15.13	16.22	17.63	18.43	18.49	19.29	20.37
	8H	13.48	14.24	14.35	15.12	16.20	17.72	18.48	18.58	19.35	20.44
	12H	13.46	14.18	14.33	15.05	16.16	17.76	18.49	18.63	19.36	20.47
4H	2H	13.72	14.59	14.57	15.44	16.51	15.94	16.81	16.79	17.66	18.73
	3H	14.76	15.48	15.62	16.37	17.45	17.47	18.19	18.33	19.07	20.16
	4H	15.05	15.70	15.92	16.58	17.70	18.01	18.67	18.88	19.55	20.66
	6H	15.18	15.75	16.07	16.65	17.77	18.39	18.96	19.28	19.86	20.98
	8H	15.19	15.72	16.08	16.62	17.75	18.50	19.03	19.39	19.93	21.06
	12H	15.16	15.64	16.07	16.56	17.69	18.57	19.05	19.48	19.97	21.10
8H	4H	15.52	16.05	16.40	16.94	18.07	18.15	18.68	19.03	19.58	20.70
	6H	15.78	16.22	16.70	17.16	18.29	18.59	19.03	19.51	19.97	21.10
	8H	15.83	16.22	16.75	17.15	18.30	18.75	19.14	19.68	20.07	21.22
	12H	15.82	16.16	16.75	17.09	18.28	18.86	19.20	19.79	20.13	21.33
12H	4H	15.53	16.01	16.44	16.93	18.06	18.12	18.59	19.03	19.51	20.65
	6H	15.85	16.24	16.77	17.17	18.32	18.59	18.98	19.52	19.92	21.06
	8H	15.92	16.26	16.85	17.19	18.39	18.77	19.11	19.69	20.03	21.23