

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: P934139

Luminaire Tested: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934139
REPORT IS A COMBINATION OF REPORTS P933687 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

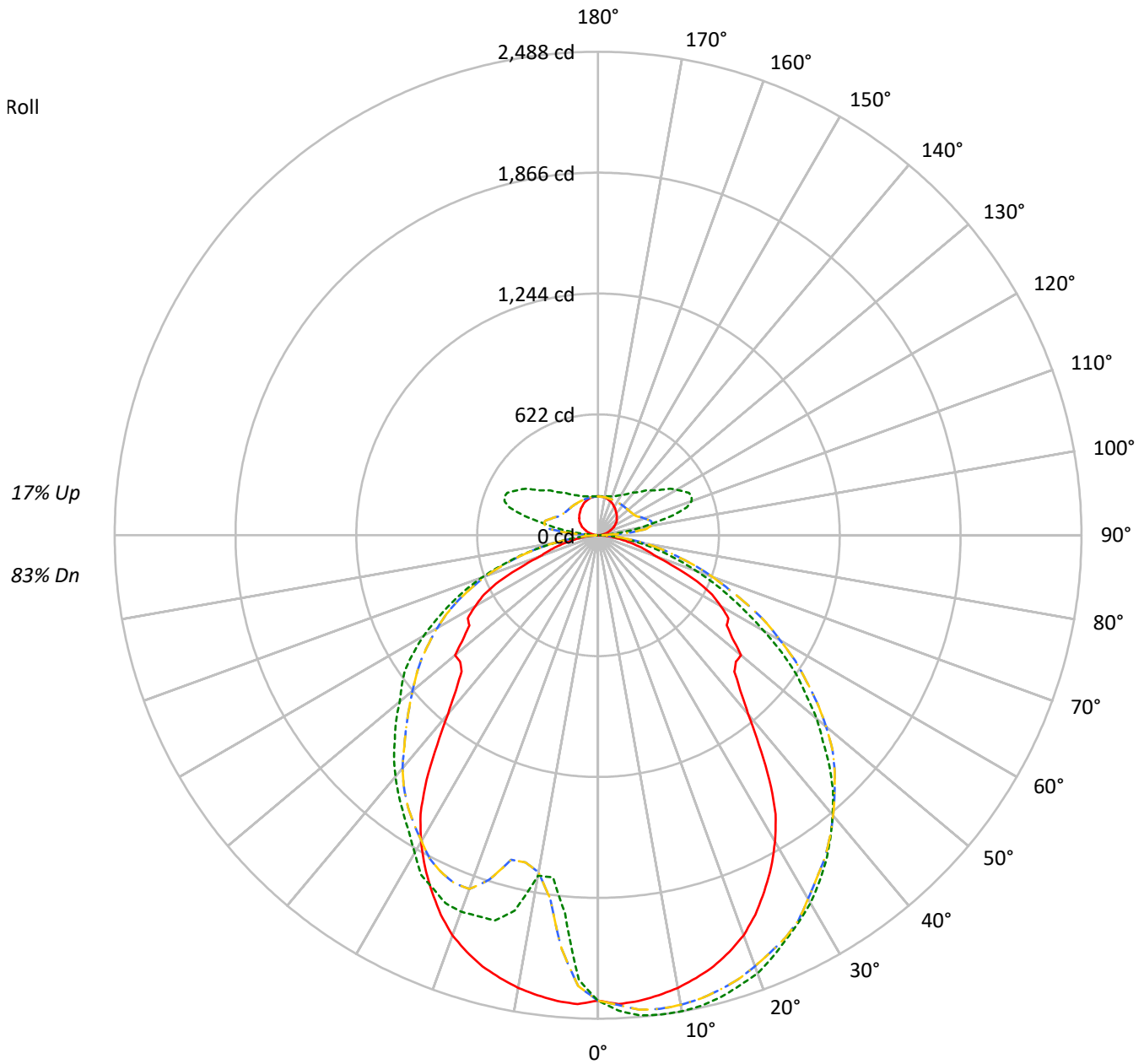
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7505.1 lumens
Efficiency: N/A
Efficacy: 100.9 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): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	73	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	62	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	52	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	45	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	39	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	35	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	31	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	28	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14814	14814	14814	14814
5°	14920	14954	14920	11758
10°	14814	14730	14814	10531
15°	14647	14412	14647	12034
20°	14335	14034	14335	12059
25°	13703	13482	13703	11803
30°	12887	13024	12887	11243
35°	11483	12445	11483	10626
40°	9563	11764	9563	10160
45°	8539	10965	8539	9624
50°	9065	10014	9065	9086
55°	8520	8988	8520	8775
60°	8772	7634	8772	8038
65°	7941	6310	7941	7054
70°	5484	5029	5484	5913
75°	4793	3718	4793	4452
80°	3834	2458	3834	2676
85°	2158	1301	2158	1106

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13096 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	2.9
10°-20°	613.7	8.2
20°-30°	948.8	12.6
30°-40°	1132.6	15.1
40°-50°	1139.2	15.2
50°-60°	991.3	13.2
60°-70°	702.8	9.4
70°-80°	371.8	5.0
80°-90°	93.4	1.2
90°-100°	97.4	1.3
100°-110°	256.1	3.4
110°-120°	265.5	3.5
120°-130°	213.0	2.8
130°-140°	167.1	2.2
140°-150°	128.3	1.7
150°-160°	92.4	1.2
160°-170°	56.5	0.8
170°-180°	19.1	0.3
0°-30°	1778.7	23.7
0°-40°	2911.3	38.8
0°-60°	5041.8	67.2
0°-90°	6209.8	82.7
90°-120°	619.0	8.2
90°-150°	1127.3	15.0
90°-180°	1295.0	17.3
0°-180°	7505.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2395	2395	2395	2395	2395	
5°	2406	2481	2406	1951	2406	228
15°	2297	2458	2297	2053	2297	646
25°	2023	2293	2023	2007	2023	929
35°	1538	2046	1538	1747	1538	952
45°	992	1686	992	1479	992	795
55°	809	1244	809	1214	809	743
65°	562	750	562	838	562	537
75°	213	356	213	426	213	224
85°	36	91	36	77	36	49
90°	1	5	1	5	1	3
95°	13	59	13	59	13	14
105°	46	401	46	401	46	49
115°	82	516	82	516	82	81
125°	114	411	114	411	114	101
135°	136	319	136	319	136	105
145°	158	259	158	259	158	99
155°	178	223	178	223	178	82
165°	192	208	192	208	192	54
175°	200	201	200	201	200	19
180°	200	200	200	200	200	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7
2.5°	2415.1	2415.1	2428.7	2433.2	2433.2	2426.4	2419.6	2426.4	2446.8	2453.6	2451.3
5°	2406.1	2424.2	2449.1	2453.6	2458.2	2455.9	2451.3	2455.9	2478.5	2483.1	2485.3
7.5°	2387.9	2421.9	2453.6	2460.4	2467.2	2460.4	2458.2	2462.6	2485.3	2489.9	2489.9
10°	2365.3	2412.8	2449.1	2453.6	2460.4	2453.6	2453.6	2462.6	2485.3	2489.9	2492.1
12.5°	2333.6	2399.3	2433.2	2437.7	2446.8	2444.5	2442.3	2451.3	2474.0	2478.5	2478.5
15°	2297.3	2374.3	2406.1	2410.6	2426.4	2421.9	2421.9	2431.0	2455.9	2462.6	2460.4
17.5°	2247.4	2342.6	2378.8	2385.6	2397.0	2394.7	2397.0	2406.1	2428.7	2433.2	2435.5
20°	2190.8	2299.6	2342.6	2349.4	2360.7	2360.7	2360.7	2372.0	2394.7	2403.7	2403.7
22.5°	2113.8	2254.2	2299.6	2304.1	2317.7	2317.7	2322.2	2338.0	2358.5	2360.7	2360.7
25°	2023.1	2204.4	2242.9	2256.5	2270.1	2276.9	2283.7	2292.8	2299.6	2297.3	2299.6
27.5°	1928.0	2140.9	2190.8	2199.9	2218.0	2224.8	2233.9	2236.1	2238.4	2245.2	2240.7
30°	1821.5	2052.6	2127.4	2136.4	2165.9	2170.4	2161.4	2165.9	2177.2	2181.7	2186.3
32.5°	1701.4	1921.2	2061.7	2082.0	2109.3	2095.7	2093.4	2100.2	2118.3	2118.3	2122.8
35°	1538.3	1819.2	2000.5	2018.7	2039.0	2023.1	2032.2	2034.5	2045.8	2052.6	2050.3
37.5°	1359.4	1730.9	1937.1	1950.6	1966.5	1946.1	1959.7	1966.5	1975.5	1971.1	1971.1
40°	1200.8	1592.7	1862.3	1871.4	1884.9	1869.1	1882.7	1887.3	1891.7	1887.3	1884.9
42.5°	1082.9	1440.9	1783.0	1794.3	1785.2	1796.6	1801.1	1810.2	1803.4	1794.3	1794.3
45°	992.3	1400.2	1696.9	1710.5	1696.9	1715.1	1721.9	1721.9	1701.4	1696.9	1694.6
47.5°	962.9	1318.6	1610.8	1610.8	1604.0	1626.7	1638.0	1622.2	1601.7	1594.9	1594.9
50°	960.6	1228.0	1493.0	1484.0	1515.7	1542.9	1531.6	1515.7	1499.8	1474.9	1474.9
52.5°	872.3	1116.9	1341.3	1375.2	1425.1	1440.9	1422.7	1406.9	1379.7	1368.4	1359.4
55°	808.8	1001.3	1203.0	1271.0	1323.1	1343.5	1309.5	1293.7	1252.9	1246.1	1241.5
57.5°	795.2	833.7	1076.1	1162.3	1225.7	1223.4	1203.0	1173.5	1139.6	1132.8	1130.5
60°	729.5	602.6	940.2	1042.1	1107.8	1101.0	1082.9	1055.8	1024.0	1019.6	1015.0
62.5°	661.5	437.3	786.1	901.7	994.6	992.3	976.4	935.6	913.1	901.7	892.6
65°	561.9	367.0	559.6	749.9	883.6	888.1	854.1	824.7	799.8	786.1	783.9
67.5°	428.2	299.0	378.4	625.3	777.1	772.6	729.5	715.9	684.2	677.4	663.8
70°	317.1	199.4	262.8	507.5	672.9	661.5	627.6	611.7	582.3	566.4	557.4
72.5°	262.8	160.9	192.5	394.2	566.4	552.8	523.3	505.2	480.3	466.8	457.6
75°	213.0	170.0	147.3	292.2	459.9	450.9	423.6	405.5	385.2	367.0	369.3
77.5°	156.3	158.6	117.8	215.2	364.7	351.2	335.3	312.7	303.6	285.5	285.5
80°	117.8	124.6	88.4	147.3	262.8	262.8	249.2	233.3	217.5	208.4	208.4
82.5°	79.3	79.3	65.7	92.9	179.0	172.2	163.1	158.6	149.5	145.0	145.0
85°	36.2	45.3	40.8	56.7	97.4	101.9	101.9	97.4	95.2	90.6	92.9
87.5°	11.3	20.4	24.9	31.7	49.8	52.1	54.4	54.4	54.4	56.7	56.7
90°	1.3	2.4	3.5	3.7	5.9	8.7	10.2	9.0	6.8	5.1	5.1
92.5°	5.4	14.5	23.6	25.9	36.4	50.4	57.4	50.3	36.1	25.4	24.5
95°	12.9	29.5	46.2	50.4	89.5	141.7	167.7	149.7	113.5	86.5	83.5
97.5°	22.2	37.0	51.7	55.3	120.6	207.5	251.0	239.6	216.8	199.7	193.9
100°	29.5	42.8	56.2	59.5	131.9	228.4	276.6	277.4	279.1	280.4	273.4
102.5°	35.7	48.2	60.6	63.7	137.1	234.9	283.9	298.4	327.5	349.4	343.4
105°	46.1	56.7	67.2	69.9	140.9	235.7	283.0	315.6	380.9	429.8	426.6
107.5°	56.9	66.7	76.5	79.0	141.7	225.2	267.0	312.5	403.5	471.7	472.5
110°	64.1	73.0	81.9	84.1	140.6	215.9	253.6	304.5	406.1	482.4	485.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	71.2	79.7	88.1	90.2	140.6	207.8	241.4	293.4	397.5	475.5	480.6
115°	81.9	89.8	97.6	99.5	141.9	198.4	226.7	276.9	377.1	452.3	459.4
117.5°	92.6	99.6	106.7	108.5	144.5	192.6	216.7	262.0	352.4	420.2	428.1
120°	98.7	105.4	112.0	113.7	146.7	190.8	212.7	254.0	336.7	398.7	406.4
122.5°	104.7	111.5	118.2	119.9	149.8	189.7	209.6	246.8	321.3	377.1	384.7
125°	114.0	120.1	126.3	127.8	154.0	188.9	206.3	237.9	301.2	348.6	355.5
127.5°	121.5	127.6	133.9	135.4	158.1	188.3	203.4	230.6	284.9	325.6	331.5
130°	125.5	132.2	138.8	140.5	161.1	188.6	202.4	226.5	274.8	311.1	316.5
132.5°	129.7	136.4	143.0	144.7	163.6	188.9	201.5	223.1	266.4	298.8	303.6
135°	135.9	141.9	148.0	149.5	166.3	188.7	199.9	218.0	254.2	281.4	285.5
137.5°	142.2	148.2	154.2	155.7	170.3	189.9	199.6	214.9	245.6	268.5	271.9
140°	147.4	152.9	158.4	159.9	172.8	190.0	198.6	211.8	238.3	258.1	261.4
142.5°	151.4	156.5	161.7	162.9	174.8	190.7	198.6	210.2	233.5	250.9	253.7
145°	157.5	162.0	166.5	167.6	177.5	190.7	197.3	206.7	225.7	240.0	242.1
147.5°	163.7	168.1	172.5	173.5	181.5	192.0	197.3	204.8	219.7	230.9	232.6
150°	167.7	171.7	175.7	176.6	183.5	192.7	197.3	203.6	216.2	225.7	227.1
152.5°	171.9	174.9	177.9	178.6	184.9	193.2	197.3	202.6	213.4	221.5	222.6
155°	178.1	180.3	182.5	183.1	187.8	194.1	197.3	201.6	210.1	216.5	217.3
157.5°	182.6	184.8	186.9	187.5	190.8	195.1	197.3	200.6	207.3	212.3	212.8
160°	185.8	187.5	189.1	189.5	192.1	195.6	197.3	200.1	205.8	210.1	210.4
162.5°	188.8	190.0	191.3	191.6	193.5	196.0	197.3	199.7	204.5	208.2	208.4
165°	192.2	193.3	194.4	194.7	195.6	196.7	197.3	199.0	202.4	205.0	205.3
167.5°	195.2	195.8	196.3	196.5	197.2	198.2	198.6	199.8	202.0	203.7	203.8
170°	197.3	197.8	198.3	198.4	198.5	198.6	198.6	199.8	202.0	203.7	203.7
172.5°	198.3	198.4	198.6	198.6	198.6	198.6	198.6	199.5	201.3	202.6	202.5
175°	199.9	199.9	199.9	199.9	199.4	198.9	198.6	199.1	200.3	201.2	201.2
177.5°	199.9	199.9	199.9	199.9	199.5	199.1	198.9	199.3	200.2	200.9	200.8
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7
2.5°	2455.9	2449.1	2455.9	2451.3	2453.6	2446.8	2426.4	2419.6	2426.4	2433.2	2433.2
5°	2485.3	2480.8	2485.3	2485.3	2483.1	2478.5	2455.9	2451.3	2455.9	2458.2	2453.6
7.5°	2494.4	2487.6	2494.4	2489.9	2489.9	2485.3	2462.6	2458.2	2460.4	2467.2	2460.4
10°	2494.4	2487.6	2494.4	2492.1	2489.9	2485.3	2462.6	2453.6	2453.6	2460.4	2453.6
12.5°	2483.1	2478.5	2483.1	2478.5	2478.5	2474.0	2451.3	2442.3	2444.5	2446.8	2437.7
15°	2465.0	2458.2	2465.0	2460.4	2462.6	2455.9	2431.0	2421.9	2421.9	2426.4	2410.6
17.5°	2437.7	2428.7	2437.7	2435.5	2433.2	2428.7	2406.1	2397.0	2394.7	2397.0	2385.6
20°	2406.1	2399.3	2406.1	2403.7	2403.7	2394.7	2372.0	2360.7	2360.7	2360.7	2349.4
22.5°	2356.2	2349.4	2356.2	2360.7	2360.7	2358.5	2338.0	2322.2	2317.7	2317.7	2304.1
25°	2299.6	2292.8	2299.6	2299.6	2297.3	2299.6	2292.8	2283.7	2276.9	2270.1	2256.5
27.5°	2245.2	2240.7	2245.2	2240.7	2245.2	2238.4	2236.1	2233.9	2224.8	2218.0	2199.9
30°	2190.8	2186.3	2190.8	2186.3	2181.7	2177.2	2165.9	2161.4	2170.4	2165.9	2136.4
32.5°	2122.8	2118.3	2122.8	2122.8	2118.3	2118.3	2100.2	2093.4	2095.7	2109.3	2082.0
35°	2052.6	2045.8	2052.6	2050.3	2052.6	2045.8	2034.5	2032.2	2023.1	2039.0	2018.7
37.5°	1971.1	1964.2	1971.1	1971.1	1971.1	1975.5	1966.5	1959.7	1946.1	1966.5	1950.6
40°	1887.3	1878.2	1887.3	1884.9	1887.3	1891.7	1887.3	1882.7	1869.1	1884.9	1871.4
42.5°	1792.1	1789.8	1792.1	1794.3	1794.3	1803.4	1810.2	1801.1	1796.6	1785.2	1794.3
45°	1690.1	1685.6	1690.1	1694.6	1696.9	1701.4	1721.9	1721.9	1715.1	1696.9	1710.5
47.5°	1581.4	1570.0	1581.4	1594.9	1594.9	1601.7	1622.2	1638.0	1626.7	1604.0	1610.8
50°	1465.9	1468.1	1465.9	1474.9	1474.9	1499.8	1515.7	1531.6	1542.9	1515.7	1484.0
52.5°	1352.6	1350.3	1352.6	1359.4	1368.4	1379.7	1406.9	1422.7	1440.9	1425.1	1375.2
55°	1239.2	1243.8	1239.2	1241.5	1246.1	1252.9	1293.7	1309.5	1343.5	1323.1	1271.0
57.5°	1126.0	1119.2	1126.0	1130.5	1132.8	1139.6	1173.5	1203.0	1223.4	1225.7	1162.3
60°	994.6	985.5	994.6	1015.0	1019.6	1024.0	1055.8	1082.9	1101.0	1107.8	1042.1
62.5°	879.1	863.2	879.1	892.6	901.7	913.1	935.6	976.4	992.3	994.6	901.7
65°	756.7	749.9	756.7	783.9	786.1	799.8	824.7	854.1	888.1	883.6	749.9
67.5°	645.7	645.7	645.7	663.8	677.4	684.2	715.9	729.5	772.6	777.1	625.3
70°	543.7	541.5	543.7	557.4	566.4	582.3	611.7	627.6	661.5	672.9	507.5
72.5°	446.3	444.1	446.3	457.6	466.8	480.3	505.2	523.3	552.8	566.4	394.2
75°	360.3	355.7	360.3	369.3	367.0	385.2	405.5	423.6	450.9	459.9	292.2
77.5°	276.4	276.4	276.4	285.5	285.5	303.6	312.7	335.3	351.2	364.7	215.2
80°	206.2	203.9	206.2	208.4	208.4	217.5	233.3	249.2	262.8	262.8	147.3
82.5°	145.0	140.5	145.0	145.0	145.0	149.5	158.6	163.1	172.2	179.0	92.9
85°	90.6	90.6	90.6	92.9	90.6	95.2	97.4	101.9	101.9	97.4	56.7
87.5°	58.9	56.7	58.9	56.7	56.7	54.4	54.4	54.4	52.1	49.8	31.7
90°	5.1	5.1	5.1	5.1	5.1	6.8	9.0	10.2	8.7	5.9	3.7
92.5°	20.4	16.3	20.4	24.5	25.4	36.1	50.3	57.4	50.4	36.4	25.9
95°	71.1	58.9	71.1	83.5	86.5	113.5	149.7	167.7	141.7	89.5	50.4
97.5°	170.5	147.1	170.5	193.9	199.7	216.8	239.6	251.0	207.5	120.6	55.3
100°	245.6	217.8	245.6	273.4	280.4	279.1	277.4	276.6	228.4	131.9	59.5
102.5°	319.6	295.7	319.6	343.4	349.4	327.5	298.4	283.9	234.9	137.1	63.7
105°	413.8	401.0	413.8	426.6	429.8	380.9	315.6	283.0	235.7	140.9	69.9
107.5°	475.5	478.6	475.5	472.5	471.7	403.5	312.5	267.0	225.2	141.7	79.0
110°	499.1	512.5	499.1	485.7	482.4	406.1	304.5	253.6	215.9	140.6	84.1



TEST NUMBER: P934139

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	501.1	521.6	501.1	480.6	475.5	397.5	293.4	241.4	207.8	140.6	90.2
115°	487.8	516.3	487.8	459.4	452.3	377.1	276.9	226.7	198.4	141.9	99.5
117.5°	459.7	491.2	459.7	428.1	420.2	352.4	262.0	216.7	192.6	144.5	108.5
120°	437.0	467.6	437.0	406.4	398.7	336.7	254.0	212.7	190.8	146.7	113.7
122.5°	414.9	445.1	414.9	384.7	377.1	321.3	246.8	209.6	189.7	149.8	119.9
125°	383.3	411.1	383.3	355.5	348.6	301.2	237.9	206.3	188.9	154.0	127.8
127.5°	355.0	378.5	355.0	331.5	325.6	284.9	230.6	203.4	188.3	158.1	135.4
130°	338.2	359.9	338.2	316.5	311.1	274.8	226.5	202.4	188.6	161.1	140.5
132.5°	323.0	342.5	323.0	303.6	298.8	266.4	223.1	201.5	188.9	163.6	144.7
135°	302.2	319.0	302.2	285.5	281.4	254.2	218.0	199.9	188.7	166.3	149.5
137.5°	285.6	299.3	285.6	271.9	268.5	245.6	214.9	199.6	189.9	170.3	155.7
140°	274.1	287.0	274.1	261.4	258.1	238.3	211.8	198.6	190.0	172.8	159.9
142.5°	264.7	275.7	264.7	253.7	250.9	233.5	210.2	198.6	190.7	174.8	162.9
145°	250.5	258.9	250.5	242.1	240.0	225.7	206.7	197.3	190.7	177.5	167.6
147.5°	239.6	246.5	239.6	232.6	230.9	219.7	204.8	197.3	192.0	181.5	173.5
150°	232.7	238.3	232.7	227.1	225.7	216.2	203.6	197.3	192.7	183.5	176.6
152.5°	226.8	231.1	226.8	222.6	221.5	213.4	202.6	197.3	193.2	184.9	178.6
155°	220.0	222.9	220.0	217.3	216.5	210.1	201.6	197.3	194.1	187.8	183.1
157.5°	214.8	216.7	214.8	212.8	212.3	207.3	200.6	197.3	195.1	190.8	187.5
160°	211.6	212.7	211.6	210.4	210.1	205.8	200.1	197.3	195.6	192.1	189.5
162.5°	209.5	210.6	209.5	208.4	208.2	204.5	199.7	197.3	196.0	193.5	191.6
165°	206.5	207.6	206.5	205.3	205.0	202.4	199.0	197.3	196.7	195.6	194.7
167.5°	204.3	204.8	204.3	203.8	203.7	202.0	199.8	198.6	198.2	197.2	196.5
170°	203.7	203.7	203.7	203.7	203.7	202.0	199.8	198.6	198.6	198.5	198.4
172.5°	202.1	201.7	202.1	202.5	202.6	201.3	199.5	198.6	198.6	198.6	198.6
175°	201.2	201.2	201.2	201.2	201.2	200.3	199.1	198.6	198.9	199.4	199.9
177.5°	200.3	199.9	200.3	200.8	200.9	200.2	199.3	198.9	199.1	199.5	199.9
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9



TEST NUMBER: P934139

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7
2.5°	2428.7	2415.1	2415.1	2392.5	2383.4	2376.6	2365.3	2331.3	2322.2	2313.1	2326.7
5°	2449.1	2424.2	2406.1	2365.3	2331.3	2317.7	2274.7	2193.1	2138.7	2097.9	2075.3
7.5°	2453.6	2421.9	2387.9	2324.5	2242.9	2206.6	2075.3	1925.7	1884.9	1848.7	1826.0
10°	2449.1	2412.8	2365.3	2270.1	2077.6	2014.1	1882.7	1785.2	1760.3	1753.6	1760.3
12.5°	2433.2	2399.3	2333.6	2175.0	1905.4	1862.3	1785.2	1728.6	1724.1	1735.4	1796.6
15°	2406.1	2374.3	2297.3	2048.1	1810.2	1778.5	1724.1	1703.7	1728.6	1807.9	1991.4
17.5°	2378.8	2342.6	2247.4	1923.5	1737.7	1715.1	1676.5	1717.3	1857.8	1964.2	2025.4
20°	2342.6	2299.6	2190.8	1832.8	1685.6	1665.2	1647.1	1830.6	1937.1	1975.5	2009.6
22.5°	2299.6	2254.2	2113.8	1769.4	1631.2	1615.4	1626.7	1894.1	1937.1	1964.2	1993.7
25°	2242.9	2204.4	2023.1	1719.5	1588.1	1570.0	1613.1	1887.3	1912.2	1919.0	1977.9
27.5°	2190.8	2140.9	1928.0	1674.3	1536.0	1529.2	1624.4	1857.8	1875.9	1882.7	1946.1
30°	2127.4	2052.6	1821.5	1626.7	1481.7	1479.4	1626.7	1821.5	1817.0	1835.1	1898.5
32.5°	2061.7	1921.2	1701.4	1567.8	1429.6	1427.3	1610.8	1767.1	1762.7	1787.6	1835.1
35°	2000.5	1819.2	1538.3	1499.8	1363.8	1366.2	1572.4	1703.7	1706.0	1728.6	1758.1
37.5°	1937.1	1730.9	1359.4	1425.1	1300.5	1300.5	1520.2	1644.8	1640.3	1647.1	1687.9
40°	1862.3	1592.7	1200.8	1327.6	1241.5	1234.8	1456.8	1581.4	1565.5	1563.2	1619.9
42.5°	1783.0	1440.9	1082.9	1198.5	1173.5	1164.5	1379.7	1504.3	1474.9	1481.7	1554.1
45°	1696.9	1400.2	992.3	1012.7	1103.4	1096.5	1295.9	1416.0	1395.6	1413.7	1488.4
47.5°	1610.8	1318.6	962.9	840.5	1028.6	1026.3	1203.0	1329.9	1318.6	1336.7	1416.0
50°	1493.0	1228.0	960.6	720.4	944.7	953.8	1092.0	1246.1	1246.1	1261.9	1345.7
52.5°	1341.3	1116.9	872.3	652.5	847.4	874.5	994.6	1173.5	1178.1	1194.0	1268.7
55°	1203.0	1001.3	808.8	600.4	731.8	790.7	899.4	1098.8	1107.8	1123.7	1191.6
57.5°	1076.1	833.7	795.2	539.2	625.3	682.0	815.6	1026.3	1030.8	1044.5	1110.2
60°	940.2	602.6	729.5	473.5	532.4	575.5	738.6	940.2	956.1	965.1	1021.8
62.5°	786.1	437.3	661.5	428.2	487.1	496.1	675.2	858.6	879.1	885.8	919.8
65°	559.6	367.0	561.9	389.7	439.5	441.8	607.2	774.8	792.9	804.3	829.2
67.5°	378.4	299.0	428.2	353.4	403.3	405.5	541.5	677.4	702.3	711.4	727.2
70°	262.8	199.4	317.1	314.9	362.5	367.0	471.2	589.0	611.7	618.5	627.6
72.5°	192.5	160.9	262.8	283.2	319.5	324.0	398.7	489.3	512.0	518.8	523.3
75°	147.3	170.0	213.0	247.0	271.9	274.1	326.3	398.7	414.6	419.2	421.4
77.5°	117.8	158.6	156.3	199.4	222.0	217.5	256.0	308.1	321.7	321.7	321.7
80°	88.4	124.6	117.8	142.7	163.1	158.6	183.5	219.8	224.3	228.8	226.5
82.5°	65.7	79.3	79.3	90.6	108.7	104.3	122.4	142.7	142.7	142.7	147.3
85°	40.8	45.3	36.2	47.6	61.1	58.9	67.9	77.0	79.3	79.3	74.8
87.5°	24.9	20.4	11.3	18.1	27.2	27.2	31.7	34.0	31.7	31.7	31.7
90°	3.5	2.4	1.3	2.4	3.5	3.7	5.9	8.7	10.2	9.0	6.8
92.5°	23.6	14.5	5.4	14.5	23.6	25.9	36.4	50.4	57.4	50.3	36.1
95°	46.2	29.5	12.9	29.5	46.2	50.4	89.5	141.7	167.7	149.7	113.5
97.5°	51.7	37.0	22.2	37.0	51.7	55.3	120.6	207.5	251.0	239.6	216.8
100°	56.2	42.8	29.5	42.8	56.2	59.5	131.9	228.4	276.6	277.4	279.1
102.5°	60.6	48.2	35.7	48.2	60.6	63.7	137.1	234.9	283.9	298.4	327.5
105°	67.2	56.7	46.1	56.7	67.2	69.9	140.9	235.7	283.0	315.6	380.9
107.5°	76.5	66.7	56.9	66.7	76.5	79.0	141.7	225.2	267.0	312.5	403.5
110°	81.9	73.0	64.1	73.0	81.9	84.1	140.6	215.9	253.6	304.5	406.1



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	88.1	79.7	71.2	79.7	88.1	90.2	140.6	207.8	241.4	293.4	397.5
115°	97.6	89.8	81.9	89.8	97.6	99.5	141.9	198.4	226.7	276.9	377.1
117.5°	106.7	99.6	92.6	99.6	106.7	108.5	144.5	192.6	216.7	262.0	352.4
120°	112.0	105.4	98.7	105.4	112.0	113.7	146.7	190.8	212.7	254.0	336.7
122.5°	118.2	111.5	104.7	111.5	118.2	119.9	149.8	189.7	209.6	246.8	321.3
125°	126.3	120.1	114.0	120.1	126.3	127.8	154.0	188.9	206.3	237.9	301.2
127.5°	133.9	127.6	121.5	127.6	133.9	135.4	158.1	188.3	203.4	230.6	284.9
130°	138.8	132.2	125.5	132.2	138.8	140.5	161.1	188.6	202.4	226.5	274.8
132.5°	143.0	136.4	129.7	136.4	143.0	144.7	163.6	188.9	201.5	223.1	266.4
135°	148.0	141.9	135.9	141.9	148.0	149.5	166.3	188.7	199.9	218.0	254.2
137.5°	154.2	148.2	142.2	148.2	154.2	155.7	170.3	189.9	199.6	214.9	245.6
140°	158.4	152.9	147.4	152.9	158.4	159.9	172.8	190.0	198.6	211.8	238.3
142.5°	161.7	156.5	151.4	156.5	161.7	162.9	174.8	190.7	198.6	210.2	233.5
145°	166.5	162.0	157.5	162.0	166.5	167.6	177.5	190.7	197.3	206.7	225.7
147.5°	172.5	168.1	163.7	168.1	172.5	173.5	181.5	192.0	197.3	204.8	219.7
150°	175.7	171.7	167.7	171.7	175.7	176.6	183.5	192.7	197.3	203.6	216.2
152.5°	177.9	174.9	171.9	174.9	177.9	178.6	184.9	193.2	197.3	202.6	213.4
155°	182.5	180.3	178.1	180.3	182.5	183.1	187.8	194.1	197.3	201.6	210.1
157.5°	186.9	184.8	182.6	184.8	186.9	187.5	190.8	195.1	197.3	200.6	207.3
160°	189.1	187.5	185.8	187.5	189.1	189.5	192.1	195.6	197.3	200.1	205.8
162.5°	191.3	190.0	188.8	190.0	191.3	191.6	193.5	196.0	197.3	199.7	204.5
165°	194.4	193.3	192.2	193.3	194.4	194.7	195.6	196.7	197.3	199.0	202.4
167.5°	196.3	195.8	195.2	195.8	196.3	196.5	197.2	198.2	198.6	199.8	202.0
170°	198.3	197.8	197.3	197.8	198.3	198.4	198.5	198.6	198.6	199.8	202.0
172.5°	198.6	198.4	198.3	198.4	198.6	198.6	198.6	198.6	198.6	199.5	201.3
175°	199.9	199.9	199.9	199.9	199.9	199.9	199.4	198.9	198.6	199.1	200.3
177.5°	199.9	199.9	199.9	199.9	199.9	199.9	199.5	199.1	198.9	199.3	200.2
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9



TEST NUMBER: P934139

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7
2.5°	2310.9	2304.1	2313.1	2288.2	2313.1	2304.1	2310.9	2326.7	2313.1	2322.2	2331.3
5°	2027.7	2016.3	1980.1	1950.6	1980.1	2016.3	2027.7	2075.3	2097.9	2138.7	2193.1
7.5°	1812.5	1803.4	1794.3	1776.2	1794.3	1803.4	1812.5	1826.0	1848.7	1884.9	1925.7
10°	1764.9	1767.1	1780.8	1778.5	1780.8	1767.1	1764.9	1760.3	1753.6	1760.3	1785.2
12.5°	1887.3	1907.6	1982.4	1977.9	1982.4	1907.6	1887.3	1796.6	1735.4	1724.1	1728.6
15°	2027.7	2034.5	2050.3	2052.6	2050.3	2034.5	2027.7	1991.4	1807.9	1728.6	1703.7
17.5°	2041.2	2043.6	2054.9	2054.9	2054.9	2043.6	2041.2	2025.4	1964.2	1857.8	1717.3
20°	2030.0	2034.5	2057.1	2061.7	2057.1	2034.5	2030.0	2009.6	1975.5	1937.1	1830.6
22.5°	2025.4	2034.5	2052.6	2050.3	2052.6	2034.5	2025.4	1993.7	1964.2	1937.1	1894.1
25°	2002.8	2002.8	2005.0	2007.3	2005.0	2002.8	2002.8	1977.9	1919.0	1912.2	1887.3
27.5°	1955.2	1959.7	1973.3	1971.1	1973.3	1959.7	1955.2	1946.1	1882.7	1875.9	1857.8
30°	1912.2	1907.6	1896.3	1887.3	1896.3	1907.6	1912.2	1898.5	1835.1	1817.0	1821.5
32.5°	1839.7	1828.4	1817.0	1810.2	1817.0	1828.4	1839.7	1835.1	1787.6	1762.7	1767.1
35°	1753.6	1755.8	1753.6	1746.8	1753.6	1755.8	1753.6	1758.1	1728.6	1706.0	1703.7
37.5°	1692.4	1696.9	1694.6	1685.6	1694.6	1696.9	1692.4	1687.9	1647.1	1640.3	1644.8
40°	1628.9	1631.2	1628.9	1622.2	1628.9	1631.2	1628.9	1619.9	1563.2	1565.5	1581.4
42.5°	1567.8	1565.5	1558.7	1554.1	1558.7	1565.5	1567.8	1554.1	1481.7	1474.9	1504.3
45°	1497.5	1499.8	1486.2	1479.4	1486.2	1499.8	1497.5	1488.4	1413.7	1395.6	1416.0
47.5°	1427.3	1427.3	1416.0	1409.2	1416.0	1427.3	1427.3	1416.0	1336.7	1318.6	1329.9
50°	1352.6	1350.3	1334.5	1332.1	1334.5	1350.3	1352.6	1345.7	1261.9	1246.1	1246.1
52.5°	1266.4	1266.4	1268.7	1273.2	1268.7	1266.4	1266.4	1268.7	1194.0	1178.1	1173.5
55°	1191.6	1194.0	1209.9	1214.3	1209.9	1194.0	1191.6	1191.6	1123.7	1107.8	1098.8
57.5°	1114.7	1114.7	1126.0	1126.0	1126.0	1114.7	1114.7	1110.2	1044.5	1030.8	1026.3
60°	1026.3	1030.8	1039.9	1037.7	1039.9	1030.8	1026.3	1021.8	965.1	956.1	940.2
62.5°	933.4	938.0	940.2	935.6	940.2	938.0	933.4	919.8	885.8	879.1	858.6
65°	836.0	840.5	842.8	838.3	842.8	840.5	836.0	829.2	804.3	792.9	774.8
67.5°	736.3	734.0	731.8	740.9	731.8	734.0	736.3	727.2	711.4	702.3	677.4
70°	634.4	634.4	632.1	636.6	632.1	634.4	634.4	627.6	618.5	611.7	589.0
72.5°	525.6	523.3	532.4	525.6	532.4	523.3	525.6	523.3	518.8	512.0	489.3
75°	419.2	423.6	419.2	426.0	419.2	423.6	419.2	421.4	419.2	414.6	398.7
77.5°	319.5	324.0	319.5	319.5	319.5	324.0	319.5	321.7	321.7	321.7	308.1
80°	226.5	224.3	224.3	222.0	224.3	224.3	226.5	226.5	228.8	224.3	219.8
82.5°	145.0	142.7	142.7	147.3	142.7	142.7	145.0	147.3	142.7	142.7	142.7
85°	79.3	81.6	77.0	77.0	77.0	81.6	79.3	74.8	79.3	79.3	77.0
87.5°	29.5	27.2	27.2	27.2	27.2	27.2	29.5	31.7	31.7	31.7	34.0
90°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.8	9.0	10.2	8.7
92.5°	25.4	24.5	20.4	16.3	20.4	24.5	25.4	36.1	50.3	57.4	50.4
95°	86.5	83.5	71.1	58.9	71.1	83.5	86.5	113.5	149.7	167.7	141.7
97.5°	199.7	193.9	170.5	147.1	170.5	193.9	199.7	216.8	239.6	251.0	207.5
100°	280.4	273.4	245.6	217.8	245.6	273.4	280.4	279.1	277.4	276.6	228.4
102.5°	349.4	343.4	319.6	295.7	319.6	343.4	349.4	327.5	298.4	283.9	234.9
105°	429.8	426.6	413.8	401.0	413.8	426.6	429.8	380.9	315.6	283.0	235.7
107.5°	471.7	472.5	475.5	478.6	475.5	472.5	471.7	403.5	312.5	267.0	225.2
110°	482.4	485.7	499.1	512.5	499.1	485.7	482.4	406.1	304.5	253.6	215.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	475.5	480.6	501.1	521.6	501.1	480.6	475.5	397.5	293.4	241.4	207.8
115°	452.3	459.4	487.8	516.3	487.8	459.4	452.3	377.1	276.9	226.7	198.4
117.5°	420.2	428.1	459.7	491.2	459.7	428.1	420.2	352.4	262.0	216.7	192.6
120°	398.7	406.4	437.0	467.6	437.0	406.4	398.7	336.7	254.0	212.7	190.8
122.5°	377.1	384.7	414.9	445.1	414.9	384.7	377.1	321.3	246.8	209.6	189.7
125°	348.6	355.5	383.3	411.1	383.3	355.5	348.6	301.2	237.9	206.3	188.9
127.5°	325.6	331.5	355.0	378.5	355.0	331.5	325.6	284.9	230.6	203.4	188.3
130°	311.1	316.5	338.2	359.9	338.2	316.5	311.1	274.8	226.5	202.4	188.6
132.5°	298.8	303.6	323.0	342.5	323.0	303.6	298.8	266.4	223.1	201.5	188.9
135°	281.4	285.5	302.2	319.0	302.2	285.5	281.4	254.2	218.0	199.9	188.7
137.5°	268.5	271.9	285.6	299.3	285.6	271.9	268.5	245.6	214.9	199.6	189.9
140°	258.1	261.4	274.1	287.0	274.1	261.4	258.1	238.3	211.8	198.6	190.0
142.5°	250.9	253.7	264.7	275.7	264.7	253.7	250.9	233.5	210.2	198.6	190.7
145°	240.0	242.1	250.5	258.9	250.5	242.1	240.0	225.7	206.7	197.3	190.7
147.5°	230.9	232.6	239.6	246.5	239.6	232.6	230.9	219.7	204.8	197.3	192.0
150°	225.7	227.1	232.7	238.3	232.7	227.1	225.7	216.2	203.6	197.3	192.7
152.5°	221.5	222.6	226.8	231.1	226.8	222.6	221.5	213.4	202.6	197.3	193.2
155°	216.5	217.3	220.0	222.9	220.0	217.3	216.5	210.1	201.6	197.3	194.1
157.5°	212.3	212.8	214.8	216.7	214.8	212.8	212.3	207.3	200.6	197.3	195.1
160°	210.1	210.4	211.6	212.7	211.6	210.4	210.1	205.8	200.1	197.3	195.6
162.5°	208.2	208.4	209.5	210.6	209.5	208.4	208.2	204.5	199.7	197.3	196.0
165°	205.0	205.3	206.5	207.6	206.5	205.3	205.0	202.4	199.0	197.3	196.7
167.5°	203.7	203.8	204.3	204.8	204.3	203.8	203.7	202.0	199.8	198.6	198.2
170°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	202.0	199.8	198.6	198.6
172.5°	202.6	202.5	202.1	201.7	202.1	202.5	202.6	201.3	199.5	198.6	198.6
175°	201.2	201.2	201.2	201.2	201.2	201.2	201.2	200.3	199.1	198.6	198.9
177.5°	200.9	200.8	200.3	199.9	200.3	200.8	200.9	200.2	199.3	198.9	199.1
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2394.7	2394.7	2394.7	2394.7	2394.7
2.5°	2365.3	2376.6	2383.4	2392.5	2415.1
5°	2274.7	2317.7	2331.3	2365.3	2406.1
7.5°	2075.3	2206.6	2242.9	2324.5	2387.9
10°	1882.7	2014.1	2077.6	2270.1	2365.3
12.5°	1785.2	1862.3	1905.4	2175.0	2333.6
15°	1724.1	1778.5	1810.2	2048.1	2297.3
17.5°	1676.5	1715.1	1737.7	1923.5	2247.4
20°	1647.1	1665.2	1685.6	1832.8	2190.8
22.5°	1626.7	1615.4	1631.2	1769.4	2113.8
25°	1613.1	1570.0	1588.1	1719.5	2023.1
27.5°	1624.4	1529.2	1536.0	1674.3	1928.0
30°	1626.7	1479.4	1481.7	1626.7	1821.5
32.5°	1610.8	1427.3	1429.6	1567.8	1701.4
35°	1572.4	1366.2	1363.8	1499.8	1538.3
37.5°	1520.2	1300.5	1300.5	1425.1	1359.4
40°	1456.8	1234.8	1241.5	1327.6	1200.8
42.5°	1379.7	1164.5	1173.5	1198.5	1082.9
45°	1295.9	1096.5	1103.4	1012.7	992.3
47.5°	1203.0	1026.3	1028.6	840.5	962.9
50°	1092.0	953.8	944.7	720.4	960.6
52.5°	994.6	874.5	847.4	652.5	872.3
55°	899.4	790.7	731.8	600.4	808.8
57.5°	815.6	682.0	625.3	539.2	795.2
60°	738.6	575.5	532.4	473.5	729.5
62.5°	675.2	496.1	487.1	428.2	661.5
65°	607.2	441.8	439.5	389.7	561.9
67.5°	541.5	405.5	403.3	353.4	428.2
70°	471.2	367.0	362.5	314.9	317.1
72.5°	398.7	324.0	319.5	283.2	262.8
75°	326.3	274.1	271.9	247.0	213.0
77.5°	256.0	217.5	222.0	199.4	156.3
80°	183.5	158.6	163.1	142.7	117.8
82.5°	122.4	104.3	108.7	90.6	79.3
85°	67.9	58.9	61.1	47.6	36.2
87.5°	31.7	27.2	27.2	18.1	11.3
90°	5.9	3.7	3.5	2.4	1.3
92.5°	36.4	25.9	23.6	14.5	5.4
95°	89.5	50.4	46.2	29.5	12.9
97.5°	120.6	55.3	51.7	37.0	22.2
100°	131.9	59.5	56.2	42.8	29.5
102.5°	137.1	63.7	60.6	48.2	35.7
105°	140.9	69.9	67.2	56.7	46.1
107.5°	141.7	79.0	76.5	66.7	56.9
110°	140.6	84.1	81.9	73.0	64.1



TEST NUMBER: P934139

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	140.6	90.2	88.1	79.7	71.2
115°	141.9	99.5	97.6	89.8	81.9
117.5°	144.5	108.5	106.7	99.6	92.6
120°	146.7	113.7	112.0	105.4	98.7
122.5°	149.8	119.9	118.2	111.5	104.7
125°	154.0	127.8	126.3	120.1	114.0
127.5°	158.1	135.4	133.9	127.6	121.5
130°	161.1	140.5	138.8	132.2	125.5
132.5°	163.6	144.7	143.0	136.4	129.7
135°	166.3	149.5	148.0	141.9	135.9
137.5°	170.3	155.7	154.2	148.2	142.2
140°	172.8	159.9	158.4	152.9	147.4
142.5°	174.8	162.9	161.7	156.5	151.4
145°	177.5	167.6	166.5	162.0	157.5
147.5°	181.5	173.5	172.5	168.1	163.7
150°	183.5	176.6	175.7	171.7	167.7
152.5°	184.9	178.6	177.9	174.9	171.9
155°	187.8	183.1	182.5	180.3	178.1
157.5°	190.8	187.5	186.9	184.8	182.6
160°	192.1	189.5	189.1	187.5	185.8
162.5°	193.5	191.6	191.3	190.0	188.8
165°	195.6	194.7	194.4	193.3	192.2
167.5°	197.2	196.5	196.3	195.8	195.2
170°	198.5	198.4	198.3	197.8	197.3
172.5°	198.6	198.6	198.6	198.4	198.3
175°	199.4	199.9	199.9	199.9	199.9
177.5°	199.5	199.9	199.9	199.9	199.9
180°	199.9	199.9	199.9	199.9	199.9



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.78	18.04	17.39	18.66	19.37	19.60	20.86	20.22	21.49	22.20
	3H	17.28	18.42	17.91	19.05	19.80	20.98	22.11	21.60	22.74	23.49
	4H	17.49	18.56	18.14	19.21	19.97	21.44	22.50	22.08	23.15	23.91
	6H	17.63	18.62	18.29	19.28	20.05	21.74	22.73	22.40	23.39	24.16
	8H	17.65	18.59	18.32	19.27	20.04	21.83	22.77	22.50	23.45	24.22
	12H	17.63	18.53	18.31	19.20	20.01	21.88	22.77	22.56	23.45	24.25
4H	2H	17.86	18.92	18.51	19.57	20.33	20.06	21.13	20.71	21.77	22.54
	3H	18.92	19.81	19.58	20.50	21.28	21.60	22.49	22.26	23.18	23.96
	4H	19.21	20.02	19.89	20.71	21.52	22.14	22.95	22.82	23.64	24.45
	6H	19.36	20.06	20.06	20.78	21.60	22.53	23.23	23.23	23.95	24.77
	8H	19.37	20.03	20.08	20.74	21.58	22.64	23.30	23.35	24.01	24.84
	12H	19.36	19.95	20.09	20.69	21.53	22.72	23.31	23.44	24.05	24.88
8H	4H	19.70	20.35	20.40	21.06	21.90	22.30	22.95	23.00	23.67	24.50
	6H	19.97	20.52	20.71	21.27	22.11	22.75	23.29	23.49	24.05	24.89
	8H	20.02	20.50	20.77	21.26	22.11	22.91	23.39	23.65	24.15	25.00
	12H	20.02	20.45	20.77	21.20	22.11	23.02	23.45	23.77	24.20	25.11
12H	4H	19.72	20.31	20.45	21.05	21.89	22.28	22.87	23.01	23.61	24.45
	6H	20.04	20.52	20.79	21.28	22.13	22.75	23.24	23.50	23.99	24.85
	8H	20.12	20.55	20.87	21.30	22.21	22.93	23.36	23.68	24.10	25.02