

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: P934164

Luminaire Tested: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934164
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-93050-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

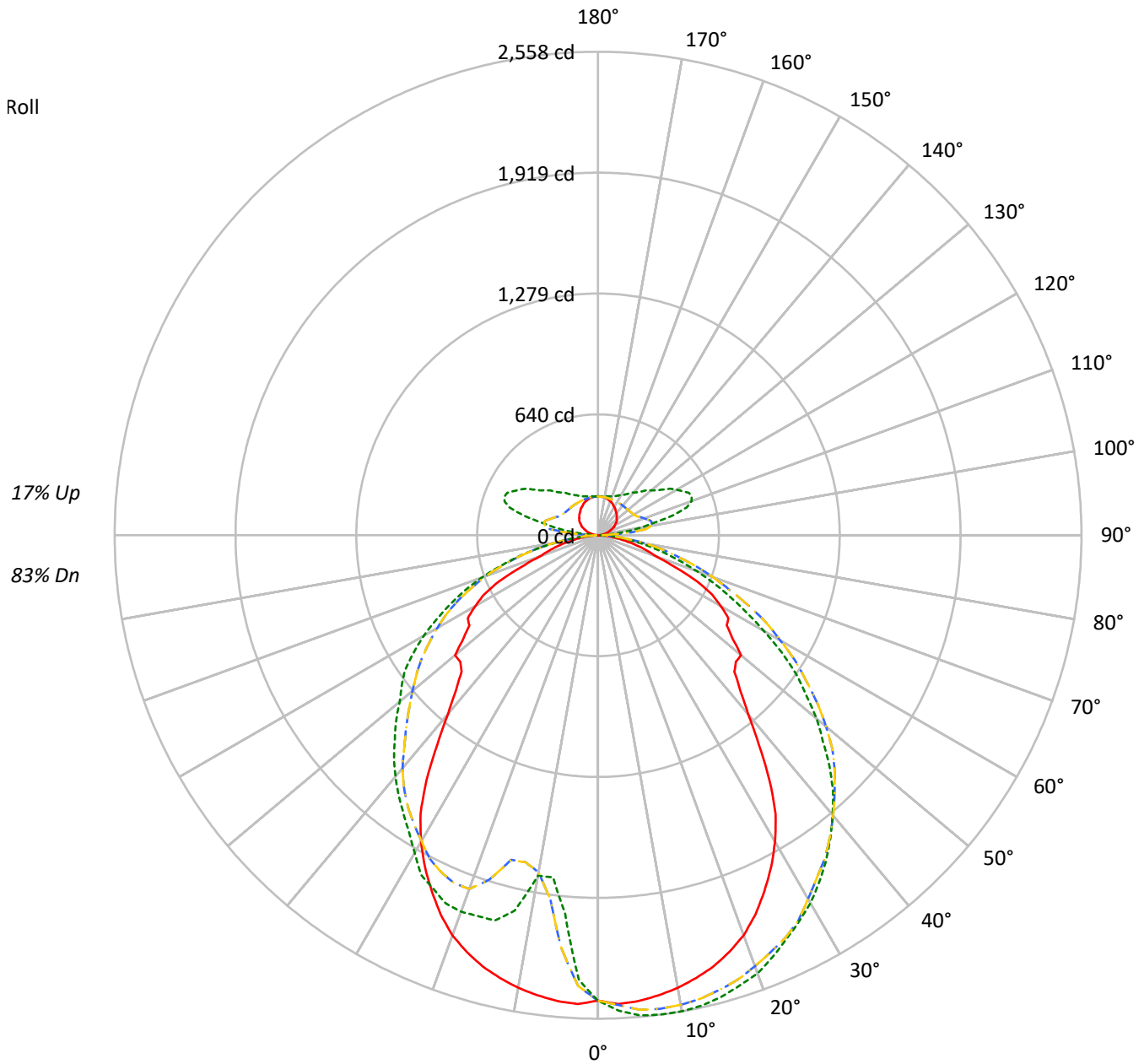
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7715.9 lumens
Efficiency: N/A
Efficacy: 103.7 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): 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

TEST NUMBER: P934164
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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°	15230	15230	15230	15230
5°	15338	15374	15338	12088
10°	15230	15144	15230	10827
15°	15059	14816	15059	12371
20°	14739	14428	14739	12398
25°	14088	13861	14088	12135
30°	13249	13390	13249	11559
35°	11806	12795	11806	10924
40°	9832	12094	9832	10445
45°	8779	11274	8779	9895
50°	9320	10295	9320	9342
55°	8759	9240	8759	9022
60°	9019	7848	9019	8263
65°	8164	6488	8164	7252
70°	5640	5171	5640	6079
75°	4928	3822	4928	4577
80°	3942	2526	3942	2751
85°	2224	1337	2224	1138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13463 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	2.9
10°-20°	631.0	8.2
20°-30°	975.4	12.6
30°-40°	1164.4	15.1
40°-50°	1171.2	15.2
50°-60°	1019.1	13.2
60°-70°	722.6	9.4
70°-80°	382.3	5.0
80°-90°	96.0	1.2
90°-100°	100.1	1.3
100°-110°	263.3	3.4
110°-120°	273.0	3.5
120°-130°	219.0	2.8
130°-140°	171.8	2.2
140°-150°	131.9	1.7
150°-160°	95.0	1.2
160°-170°	58.1	0.8
170°-180°	19.6	0.3
0°-30°	1828.6	23.7
0°-40°	2993.0	38.8
0°-60°	5183.4	67.2
0°-90°	6384.3	82.7
90°-120°	636.3	8.2
90°-150°	1159.0	15.0
90°-180°	1332.0	17.3
0°-180°	7715.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2462	2462	2462	2462	2462	
5°	2474	2550	2474	2005	2474	235
15°	2362	2527	2362	2110	2362	665
25°	2080	2357	2080	2064	2080	955
35°	1582	2103	1582	1796	1582	978
45°	1020	1733	1020	1521	1020	817
55°	832	1279	832	1248	832	764
65°	578	771	578	862	578	552
75°	219	366	219	438	219	230
85°	37	93	37	79	37	50
90°	1	5	1	5	1	3
95°	13	61	13	61	13	15
105°	47	412	47	412	47	50
115°	84	531	84	531	84	83
125°	117	423	117	423	117	104
135°	140	328	140	328	140	108
145°	162	266	162	266	162	101
155°	183	229	183	229	183	84
165°	198	214	198	214	198	56
175°	206	207	206	207	206	20
180°	206	206	206	206	206	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0
2.5°	2482.9	2482.9	2497.0	2501.5	2501.5	2494.6	2487.6	2494.6	2515.6	2522.6	2520.2
5°	2473.6	2492.3	2517.9	2522.6	2527.2	2524.9	2520.2	2524.9	2548.2	2552.8	2555.1
7.5°	2455.0	2489.9	2522.6	2529.5	2536.5	2529.5	2527.2	2531.8	2555.1	2559.8	2559.8
10°	2431.7	2480.6	2517.9	2522.6	2529.5	2522.6	2522.6	2531.8	2555.1	2559.8	2562.1
12.5°	2399.1	2466.7	2501.5	2506.2	2515.6	2513.2	2510.9	2520.2	2543.5	2548.2	2548.2
15°	2361.9	2441.0	2473.6	2478.3	2494.6	2489.9	2489.9	2499.3	2524.9	2531.8	2529.5
17.5°	2310.6	2408.4	2445.7	2452.6	2464.3	2462.0	2464.3	2473.6	2497.0	2501.5	2503.9
20°	2252.4	2364.2	2408.4	2415.4	2427.0	2427.0	2427.0	2438.7	2462.0	2471.3	2471.3
22.5°	2173.2	2317.5	2364.2	2368.8	2382.8	2382.8	2387.5	2403.7	2424.7	2427.0	2427.0
25°	2080.0	2266.3	2305.9	2319.9	2333.9	2340.9	2347.8	2357.2	2364.2	2361.9	2364.2
27.5°	1982.1	2201.1	2252.4	2261.7	2280.3	2287.3	2296.6	2298.9	2301.3	2308.3	2303.6
30°	1872.6	2110.2	2187.1	2196.4	2226.7	2231.4	2222.1	2226.7	2238.3	2243.0	2247.7
32.5°	1749.2	1975.2	2119.6	2140.5	2168.5	2154.6	2152.2	2159.2	2177.8	2177.8	2182.5
35°	1581.6	1870.4	2056.7	2075.4	2096.3	2080.0	2089.3	2091.6	2103.3	2110.2	2107.9
37.5°	1397.6	1779.5	1991.5	2005.4	2021.8	2000.8	2014.8	2021.8	2031.0	2026.5	2026.5
40°	1234.5	1637.4	1914.6	1923.9	1937.9	1921.6	1935.6	1940.3	1944.9	1940.3	1937.9
42.5°	1113.3	1481.3	1833.1	1844.8	1835.4	1847.0	1851.7	1861.1	1854.0	1844.8	1844.8
45°	1020.2	1439.5	1744.5	1758.6	1744.5	1763.3	1770.2	1770.2	1749.2	1744.5	1742.2
47.5°	989.9	1355.6	1656.1	1656.1	1649.1	1672.4	1684.1	1667.7	1646.7	1639.7	1639.7
50°	987.6	1262.5	1534.9	1525.7	1558.2	1586.2	1574.6	1558.2	1541.9	1516.3	1516.3
52.5°	896.8	1148.3	1378.9	1413.8	1465.1	1481.3	1462.7	1446.5	1418.5	1406.8	1397.6
55°	831.5	1029.5	1236.8	1306.7	1360.3	1381.2	1346.3	1330.0	1288.1	1281.1	1276.4
57.5°	817.6	857.1	1106.4	1194.9	1260.1	1257.8	1236.8	1206.5	1171.6	1164.6	1162.3
60°	750.0	619.5	966.6	1071.4	1139.0	1132.0	1113.3	1085.4	1052.8	1048.2	1043.5
62.5°	680.1	449.6	808.2	927.1	1022.5	1020.2	1003.9	961.9	938.7	927.1	917.7
65°	577.7	377.4	575.3	771.0	908.4	913.0	878.1	847.9	822.3	808.2	805.9
67.5°	440.2	307.4	389.0	642.8	798.9	794.3	750.0	736.0	703.4	696.4	682.5
70°	326.1	205.0	270.2	521.7	691.8	680.1	645.2	628.9	598.6	582.3	573.0
72.5°	270.2	165.4	197.9	405.3	582.3	568.3	538.0	519.4	493.8	479.9	470.5
75°	219.0	174.7	151.4	300.5	472.8	463.5	435.5	416.9	396.0	377.4	379.7
77.5°	160.7	163.1	121.1	221.3	375.0	361.0	344.7	321.5	312.1	293.5	293.5
80°	121.1	128.1	90.9	151.4	270.2	270.2	256.2	239.9	223.6	214.3	214.3
82.5°	81.5	81.5	67.5	95.5	184.0	177.0	167.7	163.1	153.7	149.0	149.0
85°	37.3	46.6	41.9	58.3	100.1	104.8	104.8	100.1	97.8	93.1	95.5
87.5°	11.7	20.9	25.6	32.6	51.2	53.6	55.9	55.9	55.9	58.3	58.3
90°	1.4	2.5	3.6	3.9	6.1	9.0	10.5	9.3	7.0	5.2	5.2
92.5°	5.5	14.9	24.2	26.6	37.4	51.8	59.0	51.7	37.1	26.2	25.1
95°	13.2	30.4	47.5	51.8	92.0	145.6	172.4	153.9	116.7	88.9	85.8
97.5°	22.9	38.0	53.1	56.9	124.0	213.4	258.1	246.3	222.9	205.3	199.3
100°	30.4	44.0	57.8	61.2	135.6	234.8	284.4	285.2	287.0	288.2	281.1
102.5°	36.7	49.6	62.3	65.5	141.0	241.5	291.8	306.8	336.7	359.2	353.0
105°	47.4	58.3	69.1	71.9	144.9	242.3	291.0	324.5	391.6	441.9	438.6
107.5°	58.5	68.6	78.6	81.2	145.6	231.5	274.5	321.3	414.8	484.9	485.7
110°	65.9	75.1	84.2	86.4	144.5	222.0	260.7	313.0	417.6	495.9	499.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	73.2	82.0	90.6	92.8	144.5	213.6	248.1	301.6	408.6	488.9	494.1
115°	84.2	92.3	100.3	102.3	145.9	204.0	233.1	284.7	387.7	465.0	472.3
117.5°	95.2	102.4	109.7	111.5	148.6	198.0	222.8	269.3	362.3	432.1	440.1
120°	101.5	108.4	115.2	116.9	150.9	196.1	218.7	261.2	346.2	409.9	417.8
122.5°	107.6	114.6	121.5	123.2	154.0	195.0	215.5	253.7	330.3	387.7	395.5
125°	117.2	123.5	129.9	131.4	158.3	194.2	212.1	244.6	309.6	358.4	365.5
127.5°	124.9	131.2	137.7	139.2	162.5	193.6	209.1	237.0	292.9	334.8	340.8
130°	129.0	135.9	142.7	144.4	165.6	193.9	208.0	232.9	282.6	319.8	325.4
132.5°	133.3	140.2	147.0	148.8	168.2	194.2	207.1	229.3	273.8	307.2	312.1
135°	139.7	145.9	152.2	153.7	171.0	194.0	205.5	224.1	261.4	289.3	293.6
137.5°	146.2	152.3	158.5	160.0	175.1	195.2	205.2	221.0	252.5	276.0	279.5
140°	151.5	157.2	162.9	164.4	177.7	195.4	204.2	217.8	245.0	265.4	268.7
142.5°	155.6	160.9	166.2	167.5	179.7	196.0	204.2	216.1	240.1	258.0	260.8
145°	162.0	166.6	171.2	172.3	182.5	196.0	202.8	212.5	232.1	246.8	248.9
147.5°	168.3	172.8	177.3	178.4	186.6	197.4	202.8	210.5	225.8	237.4	239.2
150°	172.4	176.5	180.6	181.6	188.7	198.1	202.8	209.3	222.3	232.0	233.5
152.5°	176.7	179.8	182.9	183.6	190.1	198.6	202.8	208.3	219.4	227.8	228.9
155°	183.1	185.4	187.7	188.2	193.1	199.6	202.8	207.2	216.0	222.6	223.4
157.5°	187.8	190.0	192.2	192.7	196.1	200.6	202.8	206.2	213.1	218.2	218.8
160°	191.0	192.7	194.4	194.8	197.5	201.1	202.8	205.7	211.6	216.0	216.3
162.5°	194.1	195.4	196.7	197.0	199.0	201.5	202.8	205.3	210.2	214.0	214.3
165°	197.6	198.7	199.9	200.1	201.1	202.3	202.8	204.6	208.1	210.8	211.1
167.5°	200.7	201.3	201.8	202.0	202.7	203.7	204.2	205.4	207.7	209.4	209.5
170°	202.8	203.4	203.9	204.0	204.1	204.2	204.2	205.4	207.7	209.4	209.4
172.5°	203.9	204.0	204.2	204.2	204.2	204.2	204.2	205.1	206.9	208.3	208.2
175°	205.5	205.5	205.5	205.5	205.0	204.5	204.2	204.7	205.9	206.8	206.8
177.5°	205.5	205.5	205.5	205.5	205.1	204.6	204.5	204.9	205.8	206.6	206.5
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0
2.5°	2524.9	2517.9	2524.9	2520.2	2522.6	2515.6	2494.6	2487.6	2494.6	2501.5	2501.5
5°	2555.1	2550.5	2555.1	2555.1	2552.8	2548.2	2524.9	2520.2	2524.9	2527.2	2522.6
7.5°	2564.5	2557.5	2564.5	2559.8	2559.8	2555.1	2531.8	2527.2	2529.5	2536.5	2529.5
10°	2564.5	2557.5	2564.5	2562.1	2559.8	2555.1	2531.8	2522.6	2522.6	2529.5	2522.6
12.5°	2552.8	2548.2	2552.8	2548.2	2548.2	2543.5	2520.2	2510.9	2513.2	2515.6	2506.2
15°	2534.2	2527.2	2534.2	2529.5	2531.8	2524.9	2499.3	2489.9	2489.9	2494.6	2478.3
17.5°	2506.2	2497.0	2506.2	2503.9	2501.5	2497.0	2473.6	2464.3	2462.0	2464.3	2452.6
20°	2473.6	2466.7	2473.6	2471.3	2471.3	2462.0	2438.7	2427.0	2427.0	2427.0	2415.4
22.5°	2422.3	2415.4	2422.3	2427.0	2427.0	2424.7	2403.7	2387.5	2382.8	2382.8	2368.8
25°	2364.2	2357.2	2364.2	2364.2	2361.9	2364.2	2357.2	2347.8	2340.9	2333.9	2319.9
27.5°	2308.3	2303.6	2308.3	2303.6	2308.3	2301.3	2298.9	2296.6	2287.3	2280.3	2261.7
30°	2252.4	2247.7	2252.4	2247.7	2243.0	2238.3	2226.7	2222.1	2231.4	2226.7	2196.4
32.5°	2182.5	2177.8	2182.5	2182.5	2177.8	2177.8	2159.2	2152.2	2154.6	2168.5	2140.5
35°	2110.2	2103.3	2110.2	2107.9	2110.2	2103.3	2091.6	2089.3	2080.0	2096.3	2075.4
37.5°	2026.5	2019.4	2026.5	2026.5	2026.5	2031.0	2021.8	2014.8	2000.8	2021.8	2005.4
40°	1940.3	1930.9	1940.3	1937.9	1940.3	1944.9	1940.3	1935.6	1921.6	1937.9	1923.9
42.5°	1842.5	1840.1	1842.5	1844.8	1844.8	1854.0	1861.1	1851.7	1847.0	1835.4	1844.8
45°	1737.6	1733.0	1737.6	1742.2	1744.5	1749.2	1770.2	1770.2	1763.3	1744.5	1758.6
47.5°	1625.8	1614.1	1625.8	1639.7	1639.7	1646.7	1667.7	1684.1	1672.4	1649.1	1656.1
50°	1507.0	1509.3	1507.0	1516.3	1516.3	1541.9	1558.2	1574.6	1586.2	1558.2	1525.7
52.5°	1390.6	1388.2	1390.6	1397.6	1406.8	1418.5	1446.5	1462.7	1481.3	1465.1	1413.8
55°	1274.0	1278.7	1274.0	1276.4	1281.1	1288.1	1330.0	1346.3	1381.2	1360.3	1306.7
57.5°	1157.6	1150.6	1157.6	1162.3	1164.6	1171.6	1206.5	1236.8	1257.8	1260.1	1194.9
60°	1022.5	1013.2	1022.5	1043.5	1048.2	1052.8	1085.4	1113.3	1132.0	1139.0	1071.4
62.5°	903.7	887.4	903.7	917.7	927.1	938.7	961.9	1003.9	1020.2	1022.5	927.1
65°	777.9	771.0	777.9	805.9	808.2	822.3	847.9	878.1	913.0	908.4	771.0
67.5°	663.9	663.9	663.9	682.5	696.4	703.4	736.0	750.0	794.3	798.9	642.8
70°	559.0	556.7	559.0	573.0	582.3	598.6	628.9	645.2	680.1	691.8	521.7
72.5°	458.8	456.6	458.8	470.5	479.9	493.8	519.4	538.0	568.3	582.3	405.3
75°	370.4	365.7	370.4	379.7	377.4	396.0	416.9	435.5	463.5	472.8	300.5
77.5°	284.2	284.2	284.2	293.5	293.5	312.1	321.5	344.7	361.0	375.0	221.3
80°	212.0	209.6	212.0	214.3	214.3	223.6	239.9	256.2	270.2	270.2	151.4
82.5°	149.0	144.4	149.0	149.0	149.0	153.7	163.1	167.7	177.0	184.0	95.5
85°	93.1	93.1	93.1	95.5	93.1	97.8	100.1	104.8	104.8	100.1	58.3
87.5°	60.6	58.3	60.6	58.3	58.3	55.9	55.9	55.9	53.6	51.2	32.6
90°	5.2	5.2	5.2	5.2	5.2	7.0	9.3	10.5	9.0	6.1	3.9
92.5°	20.9	16.8	20.9	25.1	26.2	37.1	51.7	59.0	51.8	37.4	26.6
95°	73.1	60.6	73.1	85.8	88.9	116.7	153.9	172.4	145.6	92.0	51.8
97.5°	175.3	151.2	175.3	199.3	205.3	222.9	246.3	258.1	213.4	124.0	56.9
100°	252.5	223.9	252.5	281.1	288.2	287.0	285.2	284.4	234.8	135.6	61.2
102.5°	328.5	304.0	328.5	353.0	359.2	336.7	306.8	291.8	241.5	141.0	65.5
105°	425.4	412.2	425.4	438.6	441.9	391.6	324.5	291.0	242.3	144.9	71.9
107.5°	488.9	492.1	488.9	485.7	484.9	414.8	321.3	274.5	231.5	145.6	81.2
110°	513.1	526.8	513.1	499.3	495.9	417.6	313.0	260.7	222.0	144.5	86.4



TEST NUMBER: P934164

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	515.2	536.3	515.2	494.1	488.9	408.6	301.6	248.1	213.6	144.5	92.8
115°	501.5	530.8	501.5	472.3	465.0	387.7	284.7	233.1	204.0	145.9	102.3
117.5°	472.6	505.0	472.6	440.1	432.1	362.3	269.3	222.8	198.0	148.6	111.5
120°	449.3	480.8	449.3	417.8	409.9	346.2	261.2	218.7	196.1	150.9	116.9
122.5°	426.5	457.6	426.5	395.5	387.7	330.3	253.7	215.5	195.0	154.0	123.2
125°	394.1	422.7	394.1	365.5	358.4	309.6	244.6	212.1	194.2	158.3	131.4
127.5°	365.0	389.1	365.0	340.8	334.8	292.9	237.0	209.1	193.6	162.5	139.2
130°	347.7	370.0	347.7	325.4	319.8	282.6	232.9	208.0	193.9	165.6	144.4
132.5°	332.1	352.1	332.1	312.1	307.2	273.8	229.3	207.1	194.2	168.2	148.8
135°	310.7	328.0	310.7	293.6	289.3	261.4	224.1	205.5	194.0	171.0	153.7
137.5°	293.7	307.7	293.7	279.5	276.0	252.5	221.0	205.2	195.2	175.1	160.0
140°	281.8	295.0	281.8	268.7	265.4	245.0	217.8	204.2	195.4	177.7	164.4
142.5°	272.1	283.5	272.1	260.8	258.0	240.1	216.1	204.2	196.0	179.7	167.5
145°	257.5	266.1	257.5	248.9	246.8	232.1	212.5	202.8	196.0	182.5	172.3
147.5°	246.3	253.4	246.3	239.2	237.4	225.8	210.5	202.8	197.4	186.6	178.4
150°	239.2	245.0	239.2	233.5	232.0	222.3	209.3	202.8	198.1	188.7	181.6
152.5°	233.2	237.6	233.2	228.9	227.8	219.4	208.3	202.8	198.6	190.1	183.6
155°	226.2	229.1	226.2	223.4	222.6	216.0	207.2	202.8	199.6	193.1	188.2
157.5°	220.8	222.8	220.8	218.8	218.2	213.1	206.2	202.8	200.6	196.1	192.7
160°	217.5	218.7	217.5	216.3	216.0	211.6	205.7	202.8	201.1	197.5	194.8
162.5°	215.4	216.5	215.4	214.3	214.0	210.2	205.3	202.8	201.5	199.0	197.0
165°	212.3	213.5	212.3	211.1	210.8	208.1	204.6	202.8	202.3	201.1	200.1
167.5°	210.1	210.5	210.1	209.5	209.4	207.7	205.4	204.2	203.7	202.7	202.0
170°	209.4	209.4	209.4	209.4	209.4	207.7	205.4	204.2	204.2	204.1	204.0
172.5°	207.8	207.4	207.8	208.2	208.3	206.9	205.1	204.2	204.2	204.2	204.2
175°	206.8	206.8	206.8	206.8	206.8	205.9	204.7	204.2	204.5	205.0	205.5
177.5°	205.9	205.5	205.9	206.5	206.6	205.8	204.9	204.5	204.6	205.1	205.5
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



TEST NUMBER: P934164

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0
2.5°	2497.0	2482.9	2482.9	2459.7	2450.3	2443.4	2431.7	2396.7	2387.5	2378.1	2392.1
5°	2517.9	2492.3	2473.6	2431.7	2396.7	2382.8	2338.6	2254.7	2198.8	2156.9	2133.5
7.5°	2522.6	2489.9	2455.0	2389.8	2305.9	2268.6	2133.5	1979.8	1937.9	1900.6	1877.3
10°	2517.9	2480.6	2431.7	2333.9	2135.9	2070.7	1935.6	1835.4	1809.8	1802.8	1809.8
12.5°	2501.5	2466.7	2399.1	2236.1	1958.9	1914.6	1835.4	1777.2	1772.5	1784.2	1847.0
15°	2473.6	2441.0	2361.9	2105.7	1861.1	1828.4	1772.5	1751.6	1777.2	1858.7	2047.4
17.5°	2445.7	2408.4	2310.6	1977.5	1786.5	1763.3	1723.6	1765.6	1910.0	2019.4	2082.3
20°	2408.4	2364.2	2252.4	1884.3	1733.0	1712.0	1693.3	1882.0	1991.5	2031.0	2066.0
22.5°	2364.2	2317.5	2173.2	1819.1	1677.0	1660.8	1672.4	1947.3	1991.5	2019.4	2049.7
25°	2305.9	2266.3	2080.0	1767.8	1632.8	1614.1	1658.4	1940.3	1965.9	1972.9	2033.4
27.5°	2252.4	2201.1	1982.1	1721.3	1579.2	1572.2	1670.0	1910.0	1928.6	1935.6	2000.8
30°	2187.1	2110.2	1872.6	1672.4	1523.3	1521.0	1672.4	1872.6	1868.1	1886.7	1951.8
32.5°	2119.6	1975.2	1749.2	1611.8	1469.8	1467.4	1656.1	1816.8	1812.2	1837.8	1886.7
35°	2056.7	1870.4	1581.6	1541.9	1402.1	1404.5	1616.5	1751.6	1753.9	1777.2	1807.5
37.5°	1991.5	1779.5	1397.6	1465.1	1337.0	1337.0	1562.9	1691.0	1686.4	1693.3	1735.3
40°	1914.6	1637.4	1234.5	1364.9	1276.4	1269.4	1497.7	1625.8	1609.5	1607.2	1665.4
42.5°	1833.1	1481.3	1113.3	1232.2	1206.5	1197.2	1418.5	1546.6	1516.3	1523.3	1597.8
45°	1744.5	1439.5	1020.2	1041.1	1134.4	1127.3	1332.3	1455.7	1434.8	1453.4	1530.3
47.5°	1656.1	1355.6	989.9	864.1	1057.5	1055.2	1236.8	1367.3	1355.6	1374.2	1455.7
50°	1534.9	1262.5	987.6	740.7	971.3	980.6	1122.7	1281.1	1281.1	1297.3	1383.5
52.5°	1378.9	1148.3	896.8	670.8	871.2	899.1	1022.5	1206.5	1211.2	1227.5	1304.3
55°	1236.8	1029.5	831.5	617.2	752.3	812.9	924.7	1129.7	1139.0	1155.3	1225.1
57.5°	1106.4	857.1	817.6	554.4	642.8	701.1	838.5	1055.2	1059.8	1073.8	1141.3
60°	966.6	619.5	750.0	486.8	547.4	591.6	759.3	966.6	982.9	992.2	1050.5
62.5°	808.2	449.6	680.1	440.2	500.8	510.1	694.1	882.7	903.7	910.7	945.7
65°	575.3	377.4	577.7	400.7	451.9	454.2	624.2	796.6	815.2	826.8	852.5
67.5°	389.0	307.4	440.2	363.3	414.6	416.9	556.7	696.4	722.0	731.4	747.6
70°	270.2	205.0	326.1	323.8	372.7	377.4	484.5	605.6	628.9	635.9	645.2
72.5°	197.9	165.4	270.2	291.2	328.4	333.1	409.9	503.1	526.4	533.4	538.0
75°	151.4	174.7	219.0	253.9	279.5	281.8	335.4	409.9	426.3	430.9	433.2
77.5°	121.1	163.1	160.7	205.0	228.2	223.6	263.2	316.8	330.7	330.7	330.7
80°	90.9	128.1	121.1	146.7	167.7	163.1	188.7	225.9	230.6	235.2	232.9
82.5°	67.5	81.5	81.5	93.1	111.8	107.2	125.8	146.7	146.7	146.7	151.4
85°	41.9	46.6	37.3	48.9	62.9	60.6	69.8	79.2	81.5	81.5	76.9
87.5°	25.6	20.9	11.7	18.6	28.0	28.0	32.6	35.0	32.6	32.6	32.6
90°	3.6	2.5	1.4	2.5	3.6	3.9	6.1	9.0	10.5	9.3	7.0
92.5°	24.2	14.9	5.5	14.9	24.2	26.6	37.4	51.8	59.0	51.7	37.1
95°	47.5	30.4	13.2	30.4	47.5	51.8	92.0	145.6	172.4	153.9	116.7
97.5°	53.1	38.0	22.9	38.0	53.1	56.9	124.0	213.4	258.1	246.3	222.9
100°	57.8	44.0	30.4	44.0	57.8	61.2	135.6	234.8	284.4	285.2	287.0
102.5°	62.3	49.6	36.7	49.6	62.3	65.5	141.0	241.5	291.8	306.8	336.7
105°	69.1	58.3	47.4	58.3	69.1	71.9	144.9	242.3	291.0	324.5	391.6
107.5°	78.6	68.6	58.5	68.6	78.6	81.2	145.6	231.5	274.5	321.3	414.8
110°	84.2	75.1	65.9	75.1	84.2	86.4	144.5	222.0	260.7	313.0	417.6



TEST NUMBER: P934164

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	90.6	82.0	73.2	82.0	90.6	92.8	144.5	213.6	248.1	301.6	408.6
115°	100.3	92.3	84.2	92.3	100.3	102.3	145.9	204.0	233.1	284.7	387.7
117.5°	109.7	102.4	95.2	102.4	109.7	111.5	148.6	198.0	222.8	269.3	362.3
120°	115.2	108.4	101.5	108.4	115.2	116.9	150.9	196.1	218.7	261.2	346.2
122.5°	121.5	114.6	107.6	114.6	121.5	123.2	154.0	195.0	215.5	253.7	330.3
125°	129.9	123.5	117.2	123.5	129.9	131.4	158.3	194.2	212.1	244.6	309.6
127.5°	137.7	131.2	124.9	131.2	137.7	139.2	162.5	193.6	209.1	237.0	292.9
130°	142.7	135.9	129.0	135.9	142.7	144.4	165.6	193.9	208.0	232.9	282.6
132.5°	147.0	140.2	133.3	140.2	147.0	148.8	168.2	194.2	207.1	229.3	273.8
135°	152.2	145.9	139.7	145.9	152.2	153.7	171.0	194.0	205.5	224.1	261.4
137.5°	158.5	152.3	146.2	152.3	158.5	160.0	175.1	195.2	205.2	221.0	252.5
140°	162.9	157.2	151.5	157.2	162.9	164.4	177.7	195.4	204.2	217.8	245.0
142.5°	166.2	160.9	155.6	160.9	166.2	167.5	179.7	196.0	204.2	216.1	240.1
145°	171.2	166.6	162.0	166.6	171.2	172.3	182.5	196.0	202.8	212.5	232.1
147.5°	177.3	172.8	168.3	172.8	177.3	178.4	186.6	197.4	202.8	210.5	225.8
150°	180.6	176.5	172.4	176.5	180.6	181.6	188.7	198.1	202.8	209.3	222.3
152.5°	182.9	179.8	176.7	179.8	182.9	183.6	190.1	198.6	202.8	208.3	219.4
155°	187.7	185.4	183.1	185.4	187.7	188.2	193.1	199.6	202.8	207.2	216.0
157.5°	192.2	190.0	187.8	190.0	192.2	192.7	196.1	200.6	202.8	206.2	213.1
160°	194.4	192.7	191.0	192.7	194.4	194.8	197.5	201.1	202.8	205.7	211.6
162.5°	196.7	195.4	194.1	195.4	196.7	197.0	199.0	201.5	202.8	205.3	210.2
165°	199.9	198.7	197.6	198.7	199.9	200.1	201.1	202.3	202.8	204.6	208.1
167.5°	201.8	201.3	200.7	201.3	201.8	202.0	202.7	203.7	204.2	205.4	207.7
170°	203.9	203.4	202.8	203.4	203.9	204.0	204.1	204.2	204.2	205.4	207.7
172.5°	204.2	204.0	203.9	204.0	204.2	204.2	204.2	204.2	204.2	205.1	206.9
175°	205.5	205.5	205.5	205.5	205.5	205.5	205.0	204.5	204.2	204.7	205.9
177.5°	205.5	205.5	205.5	205.5	205.5	205.5	205.1	204.6	204.5	204.9	205.8
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



TEST NUMBER: P934164

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0
2.5°	2375.8	2368.8	2378.1	2352.5	2378.1	2368.8	2375.8	2392.1	2378.1	2387.5	2396.7
5°	2084.6	2073.0	2035.7	2005.4	2035.7	2073.0	2084.6	2133.5	2156.9	2198.8	2254.7
7.5°	1863.4	1854.0	1844.8	1826.1	1844.8	1854.0	1863.4	1877.3	1900.6	1937.9	1979.8
10°	1814.5	1816.8	1830.8	1828.4	1830.8	1816.8	1814.5	1809.8	1802.8	1809.8	1835.4
12.5°	1940.3	1961.2	2038.1	2033.4	2038.1	1961.2	1940.3	1847.0	1784.2	1772.5	1777.2
15°	2084.6	2091.6	2107.9	2110.2	2107.9	2091.6	2084.6	2047.4	1858.7	1777.2	1751.6
17.5°	2098.6	2101.0	2112.6	2112.6	2112.6	2101.0	2098.6	2082.3	2019.4	1910.0	1765.6
20°	2087.0	2091.6	2114.9	2119.6	2114.9	2091.6	2087.0	2066.0	2031.0	1991.5	1882.0
22.5°	2082.3	2091.6	2110.2	2107.9	2110.2	2091.6	2082.3	2049.7	2019.4	1991.5	1947.3
25°	2059.0	2059.0	2061.3	2063.7	2061.3	2059.0	2059.0	2033.4	1972.9	1965.9	1940.3
27.5°	2010.1	2014.8	2028.7	2026.5	2028.7	2014.8	2010.1	2000.8	1935.6	1928.6	1910.0
30°	1965.9	1961.2	1949.6	1940.3	1949.6	1961.2	1965.9	1951.8	1886.7	1868.1	1872.6
32.5°	1891.4	1879.7	1868.1	1861.1	1868.1	1879.7	1891.4	1886.7	1837.8	1812.2	1816.8
35°	1802.8	1805.1	1802.8	1795.8	1802.8	1805.1	1802.8	1807.5	1777.2	1753.9	1751.6
37.5°	1739.9	1744.5	1742.2	1733.0	1742.2	1744.5	1739.9	1735.3	1693.3	1686.4	1691.0
40°	1674.7	1677.0	1674.7	1667.7	1674.7	1677.0	1674.7	1665.4	1607.2	1609.5	1625.8
42.5°	1611.8	1609.5	1602.5	1597.8	1602.5	1609.5	1611.8	1597.8	1523.3	1516.3	1546.6
45°	1539.6	1541.9	1528.0	1521.0	1528.0	1541.9	1539.6	1530.3	1453.4	1434.8	1455.7
47.5°	1467.4	1467.4	1455.7	1448.8	1455.7	1467.4	1467.4	1455.7	1374.2	1355.6	1367.3
50°	1390.6	1388.2	1372.0	1369.6	1372.0	1388.2	1390.6	1383.5	1297.3	1281.1	1281.1
52.5°	1302.0	1302.0	1304.3	1309.0	1304.3	1302.0	1302.0	1304.3	1227.5	1211.2	1206.5
55°	1225.1	1227.5	1243.8	1248.4	1243.8	1227.5	1225.1	1225.1	1155.3	1139.0	1129.7
57.5°	1146.0	1146.0	1157.6	1157.6	1157.6	1146.0	1146.0	1141.3	1073.8	1059.8	1055.2
60°	1055.2	1059.8	1069.1	1066.8	1069.1	1059.8	1055.2	1050.5	992.2	982.9	966.6
62.5°	959.6	964.3	966.6	961.9	966.6	964.3	959.6	945.7	910.7	903.7	882.7
65°	859.5	864.1	866.5	861.8	866.5	864.1	859.5	852.5	826.8	815.2	796.6
67.5°	757.0	754.6	752.3	761.7	752.3	754.6	757.0	747.6	731.4	722.0	696.4
70°	652.2	652.2	649.8	654.5	649.8	652.2	652.2	645.2	635.9	628.9	605.6
72.5°	540.3	538.0	547.4	540.3	547.4	538.0	540.3	538.0	533.4	526.4	503.1
75°	430.9	435.5	430.9	437.9	430.9	435.5	430.9	433.2	430.9	426.3	409.9
77.5°	328.4	333.1	328.4	328.4	328.4	333.1	328.4	330.7	330.7	330.7	316.8
80°	232.9	230.6	230.6	228.2	230.6	230.6	232.9	232.9	235.2	230.6	225.9
82.5°	149.0	146.7	146.7	151.4	146.7	146.7	149.0	151.4	146.7	146.7	146.7
85°	81.5	83.9	79.2	79.2	79.2	83.9	81.5	76.9	81.5	81.5	79.2
87.5°	30.3	28.0	28.0	28.0	28.0	28.0	30.3	32.6	32.6	32.6	35.0
90°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.0	9.3	10.5	9.0
92.5°	26.2	25.1	20.9	16.8	20.9	25.1	26.2	37.1	51.7	59.0	51.8
95°	88.9	85.8	73.1	60.6	73.1	85.8	88.9	116.7	153.9	172.4	145.6
97.5°	205.3	199.3	175.3	151.2	175.3	199.3	205.3	222.9	246.3	258.1	213.4
100°	288.2	281.1	252.5	223.9	252.5	281.1	288.2	287.0	285.2	284.4	234.8
102.5°	359.2	353.0	328.5	304.0	328.5	353.0	359.2	336.7	306.8	291.8	241.5
105°	441.9	438.6	425.4	412.2	425.4	438.6	441.9	391.6	324.5	291.0	242.3
107.5°	484.9	485.7	488.9	492.1	488.9	485.7	484.9	414.8	321.3	274.5	231.5
110°	495.9	499.3	513.1	526.8	513.1	499.3	495.9	417.6	313.0	260.7	222.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	488.9	494.1	515.2	536.3	515.2	494.1	488.9	408.6	301.6	248.1	213.6
115°	465.0	472.3	501.5	530.8	501.5	472.3	465.0	387.7	284.7	233.1	204.0
117.5°	432.1	440.1	472.6	505.0	472.6	440.1	432.1	362.3	269.3	222.8	198.0
120°	409.9	417.8	449.3	480.8	449.3	417.8	409.9	346.2	261.2	218.7	196.1
122.5°	387.7	395.5	426.5	457.6	426.5	395.5	387.7	330.3	253.7	215.5	195.0
125°	358.4	365.5	394.1	422.7	394.1	365.5	358.4	309.6	244.6	212.1	194.2
127.5°	334.8	340.8	365.0	389.1	365.0	340.8	334.8	292.9	237.0	209.1	193.6
130°	319.8	325.4	347.7	370.0	347.7	325.4	319.8	282.6	232.9	208.0	193.9
132.5°	307.2	312.1	332.1	352.1	332.1	312.1	307.2	273.8	229.3	207.1	194.2
135°	289.3	293.6	310.7	328.0	310.7	293.6	289.3	261.4	224.1	205.5	194.0
137.5°	276.0	279.5	293.7	307.7	293.7	279.5	276.0	252.5	221.0	205.2	195.2
140°	265.4	268.7	281.8	295.0	281.8	268.7	265.4	245.0	217.8	204.2	195.4
142.5°	258.0	260.8	272.1	283.5	272.1	260.8	258.0	240.1	216.1	204.2	196.0
145°	246.8	248.9	257.5	266.1	257.5	248.9	246.8	232.1	212.5	202.8	196.0
147.5°	237.4	239.2	246.3	253.4	246.3	239.2	237.4	225.8	210.5	202.8	197.4
150°	232.0	233.5	239.2	245.0	239.2	233.5	232.0	222.3	209.3	202.8	198.1
152.5°	227.8	228.9	233.2	237.6	233.2	228.9	227.8	219.4	208.3	202.8	198.6
155°	222.6	223.4	226.2	229.1	226.2	223.4	222.6	216.0	207.2	202.8	199.6
157.5°	218.2	218.8	220.8	222.8	220.8	218.8	218.2	213.1	206.2	202.8	200.6
160°	216.0	216.3	217.5	218.7	217.5	216.3	216.0	211.6	205.7	202.8	201.1
162.5°	214.0	214.3	215.4	216.5	215.4	214.3	214.0	210.2	205.3	202.8	201.5
165°	210.8	211.1	212.3	213.5	212.3	211.1	210.8	208.1	204.6	202.8	202.3
167.5°	209.4	209.5	210.1	210.5	210.1	209.5	209.4	207.7	205.4	204.2	203.7
170°	209.4	209.4	209.4	209.4	209.4	209.4	209.4	207.7	205.4	204.2	204.2
172.5°	208.3	208.2	207.8	207.4	207.8	208.2	208.3	206.9	205.1	204.2	204.2
175°	206.8	206.8	206.8	206.8	206.8	206.8	206.8	205.9	204.7	204.2	204.5
177.5°	206.6	206.5	205.9	205.5	205.9	206.5	206.6	205.8	204.9	204.5	204.6
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2462.0	2462.0	2462.0	2462.0	2462.0
2.5°	2431.7	2443.4	2450.3	2459.7	2482.9
5°	2338.6	2382.8	2396.7	2431.7	2473.6
7.5°	2133.5	2268.6	2305.9	2389.8	2455.0
10°	1935.6	2070.7	2135.9	2333.9	2431.7
12.5°	1835.4	1914.6	1958.9	2236.1	2399.1
15°	1772.5	1828.4	1861.1	2105.7	2361.9
17.5°	1723.6	1763.3	1786.5	1977.5	2310.6
20°	1693.3	1712.0	1733.0	1884.3	2252.4
22.5°	1672.4	1660.8	1677.0	1819.1	2173.2
25°	1658.4	1614.1	1632.8	1767.8	2080.0
27.5°	1670.0	1572.2	1579.2	1721.3	1982.1
30°	1672.4	1521.0	1523.3	1672.4	1872.6
32.5°	1656.1	1467.4	1469.8	1611.8	1749.2
35°	1616.5	1404.5	1402.1	1541.9	1581.6
37.5°	1562.9	1337.0	1337.0	1465.1	1397.6
40°	1497.7	1269.4	1276.4	1364.9	1234.5
42.5°	1418.5	1197.2	1206.5	1232.2	1113.3
45°	1332.3	1127.3	1134.4	1041.1	1020.2
47.5°	1236.8	1055.2	1057.5	864.1	989.9
50°	1122.7	980.6	971.3	740.7	987.6
52.5°	1022.5	899.1	871.2	670.8	896.8
55°	924.7	812.9	752.3	617.2	831.5
57.5°	838.5	701.1	642.8	554.4	817.6
60°	759.3	591.6	547.4	486.8	750.0
62.5°	694.1	510.1	500.8	440.2	680.1
65°	624.2	454.2	451.9	400.7	577.7
67.5°	556.7	416.9	414.6	363.3	440.2
70°	484.5	377.4	372.7	323.8	326.1
72.5°	409.9	333.1	328.4	291.2	270.2
75°	335.4	281.8	279.5	253.9	219.0
77.5°	263.2	223.6	228.2	205.0	160.7
80°	188.7	163.1	167.7	146.7	121.1
82.5°	125.8	107.2	111.8	93.1	81.5
85°	69.8	60.6	62.9	48.9	37.3
87.5°	32.6	28.0	28.0	18.6	11.7
90°	6.1	3.9	3.6	2.5	1.4
92.5°	37.4	26.6	24.2	14.9	5.5
95°	92.0	51.8	47.5	30.4	13.2
97.5°	124.0	56.9	53.1	38.0	22.9
100°	135.6	61.2	57.8	44.0	30.4
102.5°	141.0	65.5	62.3	49.6	36.7
105°	144.9	71.9	69.1	58.3	47.4
107.5°	145.6	81.2	78.6	68.6	58.5
110°	144.5	86.4	84.2	75.1	65.9



TEST NUMBER: P934164

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	144.5	92.8	90.6	82.0	73.2
115°	145.9	102.3	100.3	92.3	84.2
117.5°	148.6	111.5	109.7	102.4	95.2
120°	150.9	116.9	115.2	108.4	101.5
122.5°	154.0	123.2	121.5	114.6	107.6
125°	158.3	131.4	129.9	123.5	117.2
127.5°	162.5	139.2	137.7	131.2	124.9
130°	165.6	144.4	142.7	135.9	129.0
132.5°	168.2	148.8	147.0	140.2	133.3
135°	171.0	153.7	152.2	145.9	139.7
137.5°	175.1	160.0	158.5	152.3	146.2
140°	177.7	164.4	162.9	157.2	151.5
142.5°	179.7	167.5	166.2	160.9	155.6
145°	182.5	172.3	171.2	166.6	162.0
147.5°	186.6	178.4	177.3	172.8	168.3
150°	188.7	181.6	180.6	176.5	172.4
152.5°	190.1	183.6	182.9	179.8	176.7
155°	193.1	188.2	187.7	185.4	183.1
157.5°	196.1	192.7	192.2	190.0	187.8
160°	197.5	194.8	194.4	192.7	191.0
162.5°	199.0	197.0	196.7	195.4	194.1
165°	201.1	200.1	199.9	198.7	197.6
167.5°	202.7	202.0	201.8	201.3	200.7
170°	204.1	204.0	203.9	203.4	202.8
172.5°	204.2	204.2	204.2	204.0	203.9
175°	205.0	205.5	205.5	205.5	205.5
177.5°	205.1	205.5	205.5	205.5	205.5
180°	205.5	205.5	205.5	205.5	205.5



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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	16.87	18.13	17.49	18.76	19.47	19.70	20.96	20.31	21.58	22.29
	3H	17.38	18.51	18.01	19.15	19.90	21.07	22.20	21.70	22.84	23.59
	4H	17.59	18.66	18.24	19.31	20.07	21.53	22.60	22.18	23.25	24.01
	6H	17.73	18.72	18.39	19.37	20.15	21.84	22.82	22.50	23.48	24.26
	8H	17.74	18.68	18.41	19.36	20.14	21.92	22.86	22.59	23.54	24.32
	12H	17.73	18.62	18.40	19.30	20.10	21.97	22.87	22.65	23.54	24.35
4H	2H	17.95	19.02	18.60	19.67	20.43	20.16	21.22	20.81	21.87	22.63
	3H	19.02	19.91	19.68	20.59	21.37	21.70	22.59	22.36	23.27	24.05
	4H	19.31	20.12	19.99	20.81	21.62	22.24	23.05	22.92	23.74	24.55
	6H	19.46	20.16	20.16	20.87	21.69	22.63	23.33	23.33	24.04	24.86
	8H	19.47	20.13	20.18	20.84	21.67	22.74	23.39	23.45	24.11	24.94
	12H	19.46	20.05	20.18	20.78	21.62	22.81	23.40	23.54	24.14	24.98
8H	4H	19.79	20.45	20.50	21.16	21.99	22.40	23.05	23.10	23.76	24.60
	6H	20.07	20.61	20.81	21.37	22.21	22.85	23.39	23.58	24.15	24.98
	8H	20.12	20.60	20.87	21.36	22.21	23.00	23.49	23.75	24.24	25.10
	12H	20.12	20.55	20.87	21.29	22.21	23.12	23.54	23.87	24.29	25.20
12H	4H	19.82	20.41	20.54	21.14	21.98	22.38	22.97	23.11	23.71	24.54
	6H	20.13	20.62	20.88	21.38	22.23	22.85	23.33	23.60	24.09	24.94
	8H	20.22	20.65	20.97	21.39	22.31	23.03	23.45	23.78	24.20	25.11