

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: P934046

Luminaire Tested: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934046
REPORT IS A COMBINATION OF REPORTS P933684 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

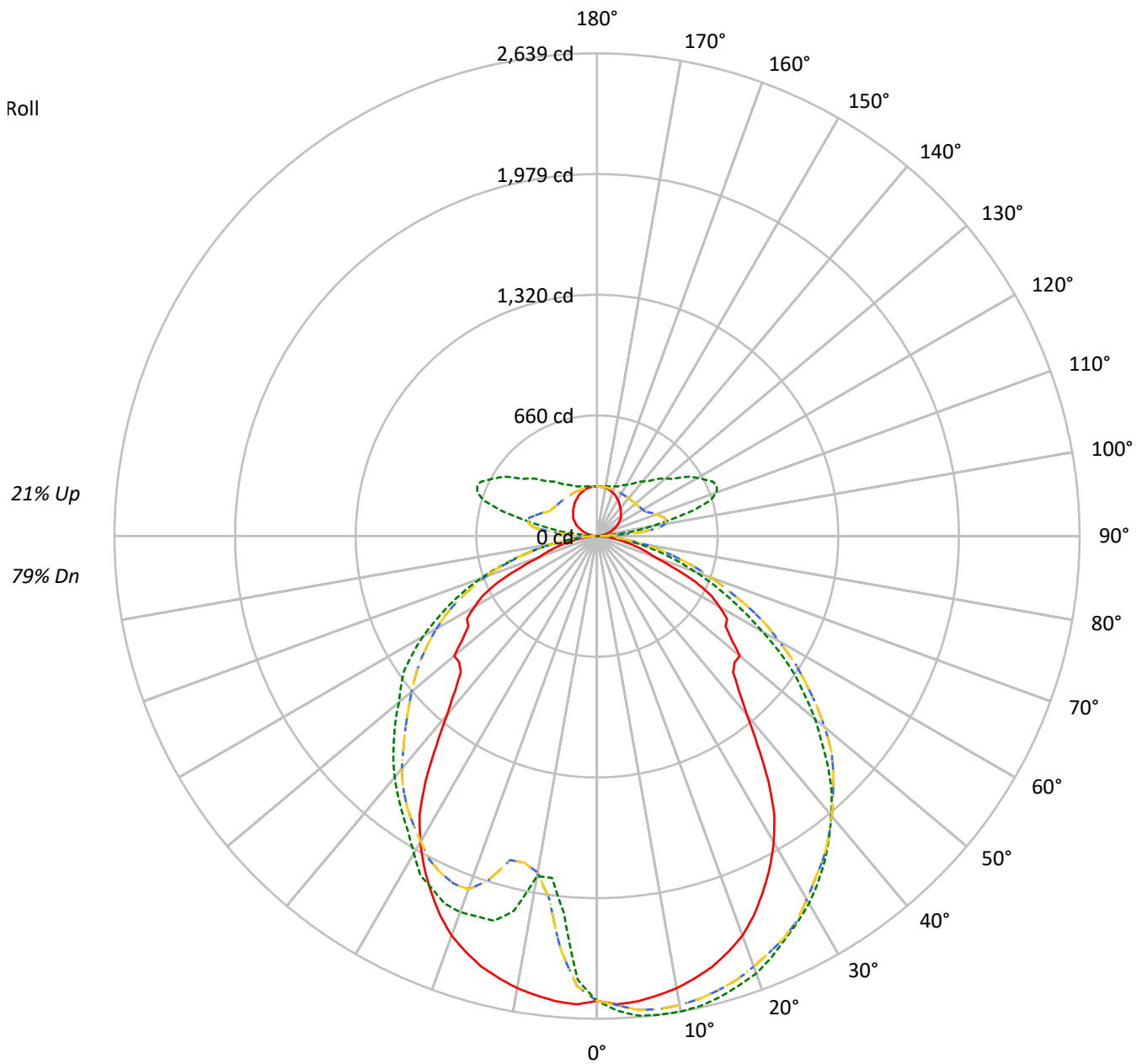
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8348.7 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 77.6
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
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79		
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67		
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56		
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47		
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41		
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22		
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11788	11788	11788	11788
5°	11876	11899	11876	9357
10°	11796	11721	11796	8380
15°	11668	11467	11668	9576
20°	11424	11167	11424	9596
25°	10925	10728	10925	9392
30°	10279	10364	10279	8946
35°	9164	9903	9164	8455
40°	7635	9361	7635	8084
45°	6823	8725	6823	7658
50°	7249	7968	7249	7231
55°	6820	7152	6820	6983
60°	7030	6074	7030	6396
65°	6373	5022	6373	5613
70°	4413	4002	4413	4705
75°	3871	2958	3871	3542
80°	3119	1955	3119	2130
85°	1793	1035	1793	880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10457 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.3	2.7
10°-20°	651.2	7.8
20°-30°	1006.6	12.1
30°-40°	1201.6	14.4
40°-50°	1208.7	14.5
50°-60°	1051.7	12.6
60°-70°	745.7	8.9
70°-80°	394.5	4.7
80°-90°	99.3	1.2
90°-100°	132.3	1.6
100°-110°	347.9	4.2
110°-120°	360.8	4.3
120°-130°	289.4	3.5
130°-140°	227.1	2.7
140°-150°	174.3	2.1
150°-160°	125.5	1.5
160°-170°	76.8	0.9
170°-180°	25.9	0.3
0°-30°	1887.1	22.6
0°-40°	3088.7	37.0
0°-60°	5349.2	64.1
0°-90°	6588.6	78.9
90°-120°	841.0	10.1
90°-150°	1531.8	18.3
90°-180°	1760.0	21.1
0°-180°	8348.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2541	2541	2541	2541	2541	
5°	2553	2632	2553	2070	2553	242
15°	2437	2608	2437	2178	2437	686
25°	2146	2433	2146	2130	2146	986
35°	1632	2171	1632	1853	1632	1010
45°	1053	1788	1053	1570	1053	843
55°	858	1320	858	1288	858	789
65°	596	796	596	889	596	570
75°	226	377	226	452	226	238
85°	38	96	38	82	38	52
90°	2	7	2	7	2	3
95°	18	80	18	80	18	19
105°	63	545	63	545	63	66
115°	111	702	111	702	111	110
125°	155	559	155	559	155	138
135°	185	433	185	433	185	143
145°	214	352	214	352	214	134
155°	242	303	242	303	242	111
165°	261	282	261	282	261	74
175°	272	273	272	273	272	26
180°	272	272	272	272	272	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7
2.5°	2562.4	2562.4	2576.7	2581.5	2581.5	2574.4	2567.2	2574.4	2596.0	2603.2	2600.8
5°	2552.7	2571.9	2598.4	2603.2	2608.0	2605.6	2600.8	2605.6	2629.7	2634.5	2636.9
7.5°	2533.5	2569.5	2603.2	2610.4	2617.7	2610.4	2608.0	2612.8	2636.9	2641.7	2641.7
10°	2509.4	2559.9	2598.4	2603.2	2610.4	2603.2	2603.2	2612.8	2636.9	2641.7	2644.0
12.5°	2475.8	2545.5	2581.5	2586.4	2596.0	2593.6	2591.2	2600.8	2624.8	2629.7	2629.7
15°	2437.4	2519.1	2552.7	2557.5	2574.4	2569.5	2569.5	2579.2	2605.6	2612.8	2610.4
17.5°	2384.4	2485.4	2523.9	2531.1	2543.1	2540.7	2543.1	2552.7	2576.7	2581.5	2584.0
20°	2324.4	2439.7	2485.4	2492.6	2504.7	2504.7	2504.7	2516.7	2540.7	2550.3	2550.3
22.5°	2242.6	2391.7	2439.7	2444.6	2458.9	2458.9	2463.8	2480.6	2502.2	2504.7	2504.7
25°	2146.5	2338.8	2379.6	2394.1	2408.5	2415.7	2422.9	2432.6	2439.7	2437.4	2439.7
27.5°	2045.5	2271.5	2324.4	2333.9	2353.2	2360.4	2370.1	2372.4	2374.9	2382.1	2377.2
30°	1932.5	2177.8	2257.1	2266.7	2297.9	2302.7	2293.1	2297.9	2309.9	2314.8	2319.6
32.5°	1805.2	2038.3	2187.4	2209.0	2237.8	2223.4	2221.0	2228.2	2247.4	2247.4	2252.3
35°	1632.1	1930.2	2122.5	2141.6	2163.3	2146.5	2156.1	2158.5	2170.6	2177.8	2175.3
37.5°	1442.2	1836.4	2055.1	2069.6	2086.4	2064.8	2079.2	2086.4	2096.0	2091.3	2091.3
40°	1273.9	1689.8	1975.8	1985.5	1999.8	1983.0	1997.5	2002.3	2007.1	2002.3	1999.8
42.5°	1149.0	1528.7	1891.7	1903.7	1894.1	1906.1	1911.0	1920.5	1913.3	1903.7	1903.7
45°	1052.8	1485.4	1800.4	1814.8	1800.4	1819.6	1826.8	1826.8	1805.2	1800.4	1798.0
47.5°	1021.6	1398.9	1709.0	1709.0	1701.8	1725.9	1737.9	1721.0	1699.4	1692.2	1692.2
50°	1019.2	1302.8	1584.0	1574.4	1608.1	1636.9	1624.9	1608.1	1591.2	1564.8	1564.8
52.5°	925.5	1185.0	1422.9	1459.1	1511.9	1528.7	1509.5	1492.7	1463.9	1451.9	1442.2
55°	858.2	1062.5	1276.4	1348.4	1403.8	1425.4	1389.3	1372.6	1329.3	1322.1	1317.2
57.5°	843.7	884.5	1141.8	1233.1	1300.4	1298.0	1276.4	1245.1	1209.1	1201.8	1199.4
60°	774.0	639.4	997.5	1105.7	1175.4	1168.2	1149.0	1120.1	1086.5	1081.6	1076.8
62.5°	701.9	463.9	834.0	956.7	1055.2	1052.8	1036.0	992.7	968.7	956.7	947.0
65°	596.1	389.4	593.7	795.7	937.5	942.2	906.2	875.0	848.5	834.0	831.7
67.5°	454.3	317.3	401.4	663.4	824.5	819.7	774.0	759.5	725.9	718.7	704.2
70°	336.5	211.5	278.8	538.4	713.9	701.9	665.9	649.0	617.7	600.9	591.3
72.5°	278.8	170.6	204.3	418.3	600.9	586.5	555.2	536.0	509.6	495.1	485.6
75°	226.0	180.3	156.3	310.1	487.9	478.4	449.5	430.3	408.6	389.4	391.8
77.5°	165.8	168.3	125.0	228.3	387.0	372.6	355.8	331.7	322.1	302.9	302.9
80°	125.0	132.2	93.8	156.3	278.8	278.8	264.4	247.6	230.8	221.1	221.1
82.5°	84.1	84.1	69.7	98.5	189.9	182.7	173.1	168.3	158.6	153.8	153.8
85°	38.5	48.0	43.3	60.1	103.3	108.2	108.2	103.3	101.0	96.1	98.5
87.5°	12.0	21.6	26.5	33.7	52.8	55.3	57.7	57.7	57.7	60.1	60.1
90°	1.8	3.3	4.7	5.1	8.0	11.9	13.8	12.3	9.2	6.9	6.9
92.5°	7.3	19.6	32.1	35.2	49.5	68.5	78.0	68.3	49.1	34.7	33.3
95°	17.5	40.1	62.9	68.5	121.6	192.5	228.0	203.4	154.4	117.5	113.3
97.5°	30.3	50.3	70.2	75.2	163.8	282.0	341.1	325.7	294.6	271.3	263.4
100°	40.1	58.2	76.3	80.9	179.2	310.3	375.9	377.0	379.3	381.0	371.6
102.5°	48.5	65.4	82.3	86.5	186.3	319.3	385.8	405.5	445.0	474.6	466.6
105°	62.7	77.0	91.4	95.0	191.6	320.3	384.7	429.0	517.6	584.0	579.6
107.5°	77.2	90.6	104.0	107.3	192.5	306.0	362.8	424.5	548.1	640.8	641.9
110°	87.1	99.2	111.2	114.3	191.0	293.4	344.6	413.6	551.8	655.4	659.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	96.8	108.2	119.7	122.6	191.1	282.4	328.0	398.7	540.1	646.1	653.1
115°	111.3	121.9	132.5	135.2	192.8	269.7	308.1	376.2	512.5	614.6	624.3
117.5°	125.7	135.4	145.0	147.5	196.5	261.8	294.4	355.9	478.8	571.1	581.8
120°	134.1	143.2	152.3	154.5	199.4	259.2	289.0	345.1	457.5	541.7	552.1
122.5°	142.3	151.5	160.6	162.9	203.6	257.7	284.8	335.4	436.5	512.4	522.7
125°	154.9	163.3	171.6	173.6	209.2	256.6	280.3	323.2	409.2	473.6	483.0
127.5°	165.1	173.5	181.9	184.0	214.9	255.9	276.4	313.4	387.1	442.4	450.5
130°	170.6	179.7	188.7	190.9	218.9	256.3	275.0	307.8	373.5	422.7	430.1
132.5°	176.2	185.3	194.3	196.6	222.3	256.6	273.7	303.1	361.9	406.0	412.6
135°	184.6	192.8	201.1	203.2	226.0	256.3	271.5	296.2	345.4	382.3	388.0
137.5°	193.1	201.3	209.5	211.6	231.4	257.9	271.2	292.0	333.6	364.8	369.4
140°	200.2	207.8	215.3	217.2	234.8	258.2	269.9	287.9	323.8	350.8	355.1
142.5°	205.8	212.7	219.7	221.4	237.6	259.2	269.9	285.7	317.3	340.9	344.7
145°	214.1	220.2	226.2	227.8	241.2	259.2	268.1	281.0	306.8	326.2	329.0
147.5°	222.5	228.4	234.3	235.8	246.5	260.9	268.1	278.3	298.5	313.7	316.1
150°	228.0	233.3	238.6	240.0	249.3	261.8	268.1	276.6	293.8	306.6	308.5
152.5°	233.6	237.6	241.7	242.7	251.2	262.4	268.1	275.3	290.0	301.0	302.5
155°	242.0	245.0	248.0	248.7	255.2	263.8	268.1	273.9	285.5	294.3	295.2
157.5°	248.1	251.1	254.0	254.7	259.2	265.1	268.1	272.6	281.6	288.4	289.1
160°	252.3	254.6	256.9	257.4	261.0	265.7	268.1	272.0	279.7	285.5	285.9
162.5°	256.5	258.2	259.9	260.3	262.9	266.3	268.1	271.3	277.9	282.8	283.2
165°	261.2	262.7	264.2	264.6	265.8	267.3	268.1	270.4	275.1	278.6	279.0
167.5°	265.3	266.1	266.8	267.0	268.0	269.3	269.9	271.4	274.5	276.8	277.0
170°	268.1	268.8	269.5	269.7	269.8	269.9	269.9	271.4	274.5	276.8	276.8
172.5°	269.5	269.7	269.9	269.9	269.9	269.9	269.9	271.1	273.5	275.3	275.2
175°	271.5	271.5	271.5	271.5	271.0	270.3	269.9	270.6	272.2	273.3	273.3
177.5°	271.5	271.5	271.5	271.5	271.1	270.5	270.3	270.9	272.1	273.0	272.8
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7
2.5°	2605.6	2598.4	2605.6	2600.8	2603.2	2596.0	2574.4	2567.2	2574.4	2581.5	2581.5
5°	2636.9	2632.0	2636.9	2636.9	2634.5	2629.7	2605.6	2600.8	2605.6	2608.0	2603.2
7.5°	2646.5	2639.2	2646.5	2641.7	2641.7	2636.9	2612.8	2608.0	2610.4	2617.7	2610.4
10°	2646.5	2639.2	2646.5	2644.0	2641.7	2636.9	2612.8	2603.2	2603.2	2610.4	2603.2
12.5°	2634.5	2629.7	2634.5	2629.7	2629.7	2624.8	2600.8	2591.2	2593.6	2596.0	2586.4
15°	2615.2	2608.0	2615.2	2610.4	2612.8	2605.6	2579.2	2569.5	2569.5	2574.4	2557.5
17.5°	2586.4	2576.7	2586.4	2584.0	2581.5	2576.7	2552.7	2543.1	2540.7	2543.1	2531.1
20°	2552.7	2545.5	2552.7	2550.3	2550.3	2540.7	2516.7	2504.7	2504.7	2504.7	2492.6
22.5°	2499.9	2492.6	2499.9	2504.7	2504.7	2502.2	2480.6	2463.8	2458.9	2458.9	2444.6
25°	2439.7	2432.6	2439.7	2439.7	2437.4	2439.7	2432.6	2422.9	2415.7	2408.5	2394.1
27.5°	2382.1	2377.2	2382.1	2377.2	2382.1	2374.9	2372.4	2370.1	2360.4	2353.2	2333.9
30°	2324.4	2319.6	2324.4	2319.6	2314.8	2309.9	2297.9	2293.1	2302.7	2297.9	2266.7
32.5°	2252.3	2247.4	2252.3	2252.3	2247.4	2247.4	2228.2	2221.0	2223.4	2237.8	2209.0
35°	2177.8	2170.6	2177.8	2175.3	2177.8	2170.6	2158.5	2156.1	2146.5	2163.3	2141.6
37.5°	2091.3	2084.0	2091.3	2091.3	2091.3	2096.0	2086.4	2079.2	2064.8	2086.4	2069.6
40°	2002.3	1992.7	2002.3	1999.8	2002.3	2007.1	2002.3	1997.5	1983.0	1999.8	1985.5
42.5°	1901.3	1899.0	1901.3	1903.7	1903.7	1913.3	1920.5	1911.0	1906.1	1894.1	1903.7
45°	1793.2	1788.3	1793.2	1798.0	1800.4	1805.2	1826.8	1826.8	1819.6	1800.4	1814.8
47.5°	1677.7	1665.7	1677.7	1692.2	1692.2	1699.4	1721.0	1737.9	1725.9	1701.8	1709.0
50°	1555.2	1557.6	1555.2	1564.8	1564.8	1591.2	1608.1	1624.9	1636.9	1608.1	1574.4
52.5°	1435.0	1432.6	1435.0	1442.2	1451.9	1463.9	1492.7	1509.5	1528.7	1511.9	1459.1
55°	1314.8	1319.6	1314.8	1317.2	1322.1	1329.3	1372.6	1389.3	1425.4	1403.8	1348.4
57.5°	1194.6	1187.4	1194.6	1199.4	1201.8	1209.1	1245.1	1276.4	1298.0	1300.4	1233.1
60°	1055.2	1045.6	1055.2	1076.8	1081.6	1086.5	1120.1	1149.0	1168.2	1175.4	1105.7
62.5°	932.7	915.8	932.7	947.0	956.7	968.7	992.7	1036.0	1052.8	1055.2	956.7
65°	802.8	795.7	802.8	831.7	834.0	848.5	875.0	906.2	942.2	937.5	795.7
67.5°	685.0	685.0	685.0	704.2	718.7	725.9	759.5	774.0	819.7	824.5	663.4
70°	576.9	574.5	576.9	591.3	600.9	617.7	649.0	665.9	701.9	713.9	538.4
72.5°	473.6	471.1	473.6	485.6	495.1	509.6	536.0	555.2	586.5	600.9	418.3
75°	382.2	377.4	382.2	391.8	389.4	408.6	430.3	449.5	478.4	487.9	310.1
77.5°	293.3	293.3	293.3	302.9	302.9	322.1	331.7	355.8	372.6	387.0	228.3
80°	218.8	216.3	218.8	221.1	221.1	230.8	247.6	264.4	278.8	278.8	156.3
82.5°	153.8	149.0	153.8	153.8	153.8	158.6	168.3	173.1	182.7	189.9	98.5
85°	96.1	96.1	96.1	98.5	96.1	101.0	103.3	108.2	108.2	103.3	60.1
87.5°	62.5	60.1	62.5	60.1	60.1	57.7	57.7	57.7	55.3	52.8	33.7
90°	6.9	6.9	6.9	6.9	6.9	9.2	12.3	13.8	11.9	8.0	5.1
92.5°	27.7	22.2	27.7	33.3	34.7	49.1	68.3	78.0	68.5	49.5	35.2
95°	96.7	80.0	96.7	113.3	117.5	154.4	203.4	228.0	192.5	121.6	68.5
97.5°	231.6	199.8	231.6	263.4	271.3	294.6	325.7	341.1	282.0	163.8	75.2
100°	333.7	295.9	333.7	371.6	381.0	379.3	377.0	375.9	310.3	179.2	80.9
102.5°	434.2	401.8	434.2	466.6	474.6	445.0	405.5	385.8	319.3	186.3	86.5
105°	562.2	544.8	562.2	579.6	584.0	517.6	429.0	384.7	320.3	191.6	95.0
107.5°	646.1	650.3	646.1	641.9	640.8	548.1	424.5	362.8	306.0	192.5	107.3
110°	678.0	696.2	678.0	659.9	655.4	551.8	413.6	344.6	293.4	191.0	114.3



TEST NUMBER: P934046

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	681.0	708.8	681.0	653.1	646.1	540.1	398.7	328.0	282.4	191.1	122.6
115°	662.9	701.5	662.9	624.3	614.6	512.5	376.2	308.1	269.7	192.8	135.2
117.5°	624.6	667.5	624.6	581.8	571.1	478.8	355.9	294.4	261.8	196.5	147.5
120°	593.7	635.4	593.7	552.1	541.7	457.5	345.1	289.0	259.2	199.4	154.5
122.5°	563.7	604.7	563.7	522.7	512.4	436.5	335.4	284.8	257.7	203.6	162.9
125°	520.9	558.7	520.9	483.0	473.6	409.2	323.2	280.3	256.6	209.2	173.6
127.5°	482.3	514.2	482.3	450.5	442.4	387.1	313.4	276.4	255.9	214.9	184.0
130°	459.5	489.0	459.5	430.1	422.7	373.5	307.8	275.0	256.3	218.9	190.9
132.5°	439.0	465.4	439.0	412.6	406.0	361.9	303.1	273.7	256.6	222.3	196.6
135°	410.7	433.4	410.7	388.0	382.3	345.4	296.2	271.5	256.3	226.0	203.2
137.5°	388.1	406.7	388.1	369.4	364.8	333.6	292.0	271.2	257.9	231.4	211.6
140°	372.5	390.0	372.5	355.1	350.8	323.8	287.9	269.9	258.2	234.8	217.2
142.5°	359.7	374.6	359.7	344.7	340.9	317.3	285.7	269.9	259.2	237.6	221.4
145°	340.4	351.7	340.4	329.0	326.2	306.8	281.0	268.1	259.2	241.2	227.8
147.5°	325.5	334.9	325.5	316.1	313.7	298.5	278.3	268.1	260.9	246.5	235.8
150°	316.2	323.8	316.2	308.5	306.6	293.8	276.6	268.1	261.8	249.3	240.0
152.5°	308.2	313.9	308.2	302.5	301.0	290.0	275.3	268.1	262.4	251.2	242.7
155°	299.0	302.8	299.0	295.2	294.3	285.5	273.9	268.1	263.8	255.2	248.7
157.5°	291.8	294.4	291.8	289.1	288.4	281.6	272.6	268.1	265.1	259.2	254.7
160°	287.4	289.0	287.4	285.9	285.5	279.7	272.0	268.1	265.7	261.0	257.4
162.5°	284.6	286.1	284.6	283.2	282.8	277.9	271.3	268.1	266.3	262.9	260.3
165°	280.5	282.1	280.5	279.0	278.6	275.1	270.4	268.1	267.3	265.8	264.6
167.5°	277.6	278.3	277.6	277.0	276.8	274.5	271.4	269.9	269.3	268.0	267.0
170°	276.8	276.8	276.8	276.8	276.8	274.5	271.4	269.9	269.9	269.8	269.7
172.5°	274.6	274.1	274.6	275.2	275.3	273.5	271.1	269.9	269.9	269.9	269.9
175°	273.3	273.3	273.3	273.3	273.3	272.2	270.6	269.9	270.3	271.0	271.5
177.5°	272.2	271.5	272.2	272.8	273.0	272.1	270.9	270.3	270.5	271.1	271.5
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5



TEST NUMBER: P934046

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7
2.5°	2576.7	2562.4	2562.4	2538.3	2528.7	2521.5	2509.4	2473.4	2463.8	2454.2	2468.6
5°	2598.4	2571.9	2552.7	2509.4	2473.4	2458.9	2413.3	2326.8	2269.1	2225.8	2201.8
7.5°	2603.2	2569.5	2533.5	2466.2	2379.6	2341.2	2201.8	2043.1	1999.8	1961.5	1937.3
10°	2598.4	2559.9	2509.4	2408.5	2204.1	2136.9	1997.5	1894.1	1867.7	1860.5	1867.7
12.5°	2581.5	2545.5	2475.8	2307.6	2021.5	1975.8	1894.1	1834.0	1829.2	1841.2	1906.1
15°	2552.7	2519.1	2437.4	2172.9	1920.5	1886.9	1829.2	1807.5	1834.0	1918.2	2112.8
17.5°	2523.9	2485.4	2384.4	2040.8	1843.7	1819.6	1778.7	1822.0	1971.0	2084.0	2148.9
20°	2485.4	2439.7	2324.4	1944.6	1788.3	1766.7	1747.5	1942.2	2055.1	2096.0	2132.1
22.5°	2439.7	2391.7	2242.6	1877.3	1730.7	1713.8	1725.9	2009.5	2055.1	2084.0	2115.3
25°	2379.6	2338.8	2146.5	1824.4	1685.0	1665.7	1711.4	2002.3	2028.7	2035.9	2098.4
27.5°	2324.4	2271.5	2045.5	1776.3	1629.7	1622.5	1723.5	1971.0	1990.3	1997.5	2064.8
30°	2257.1	2177.8	1932.5	1725.9	1572.0	1569.6	1725.9	1932.5	1927.8	1947.0	2014.3
32.5°	2187.4	2038.3	1805.2	1663.4	1516.7	1514.4	1709.0	1874.9	1870.0	1896.5	1947.0
35°	2122.5	1930.2	1632.1	1591.2	1447.1	1449.4	1668.2	1807.5	1810.0	1834.0	1865.3
37.5°	2055.1	1836.4	1442.2	1511.9	1379.7	1379.7	1612.9	1745.0	1740.3	1747.5	1790.7
40°	1975.8	1689.8	1273.9	1408.6	1317.2	1310.0	1545.6	1677.7	1660.9	1658.5	1718.7
42.5°	1891.7	1528.7	1149.0	1271.6	1245.1	1235.5	1463.9	1596.0	1564.8	1572.0	1648.9
45°	1800.4	1485.4	1052.8	1074.5	1170.6	1163.4	1374.9	1502.3	1480.7	1499.9	1579.2
47.5°	1709.0	1398.9	1021.6	891.8	1091.3	1088.8	1276.4	1410.9	1398.9	1418.2	1502.3
50°	1584.0	1302.8	1019.2	764.4	1002.3	1012.0	1158.6	1322.1	1322.1	1338.9	1427.8
52.5°	1422.9	1185.0	925.5	692.2	899.0	927.8	1055.2	1245.1	1249.9	1266.8	1346.1
55°	1276.4	1062.5	858.2	637.0	776.4	838.9	954.3	1165.8	1175.4	1192.3	1264.3
57.5°	1141.8	884.5	843.7	572.1	663.4	723.5	865.3	1088.8	1093.7	1108.1	1177.8
60°	997.5	639.4	774.0	502.4	564.9	610.5	783.6	997.5	1014.3	1024.0	1084.1
62.5°	834.0	463.9	701.9	454.3	516.8	526.4	716.3	911.0	932.7	939.8	975.9
65°	593.7	389.4	596.1	413.4	466.3	468.7	644.2	822.0	841.3	853.3	879.7
67.5°	401.4	317.3	454.3	375.0	427.9	430.3	574.5	718.7	745.2	754.7	771.6
70°	278.8	211.5	336.5	334.1	384.6	389.4	499.9	624.9	649.0	656.2	665.9
72.5°	204.3	170.6	278.8	300.5	338.9	343.8	423.1	519.2	543.2	550.4	555.2
75°	156.3	180.3	226.0	262.0	288.4	290.8	346.1	423.1	439.9	444.7	447.1
77.5°	125.0	168.3	165.8	211.5	235.6	230.8	271.6	326.9	341.3	341.3	341.3
80°	93.8	132.2	125.0	151.5	173.1	168.3	194.7	233.1	238.0	242.8	240.3
82.5°	69.7	84.1	84.1	96.1	115.3	110.6	129.8	151.5	151.5	151.5	156.3
85°	43.3	48.0	38.5	50.5	64.9	62.5	72.1	81.7	84.1	84.1	79.3
87.5°	26.5	21.6	12.0	19.2	28.8	28.8	33.7	36.0	33.7	33.7	33.7
90°	4.7	3.3	1.8	3.3	4.7	5.1	8.0	11.9	13.8	12.3	9.2
92.5°	32.1	19.6	7.3	19.6	32.1	35.2	49.5	68.5	78.0	68.3	49.1
95°	62.9	40.1	17.5	40.1	62.9	68.5	121.6	192.5	228.0	203.4	154.4
97.5°	70.2	50.3	30.3	50.3	70.2	75.2	163.8	282.0	341.1	325.7	294.6
100°	76.3	58.2	40.1	58.2	76.3	80.9	179.2	310.3	375.9	377.0	379.3
102.5°	82.3	65.4	48.5	65.4	82.3	86.5	186.3	319.3	385.8	405.5	445.0
105°	91.4	77.0	62.7	77.0	91.4	95.0	191.6	320.3	384.7	429.0	517.6
107.5°	104.0	90.6	77.2	90.6	104.0	107.3	192.5	306.0	362.8	424.5	548.1
110°	111.2	99.2	87.1	99.2	111.2	114.3	191.0	293.4	344.6	413.6	551.8



TEST NUMBER: P934046

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	119.7	108.2	96.8	108.2	119.7	122.6	191.1	282.4	328.0	398.7	540.1
115°	132.5	121.9	111.3	121.9	132.5	135.2	192.8	269.7	308.1	376.2	512.5
117.5°	145.0	135.4	125.7	135.4	145.0	147.5	196.5	261.8	294.4	355.9	478.8
120°	152.3	143.2	134.1	143.2	152.3	154.5	199.4	259.2	289.0	345.1	457.5
122.5°	160.6	151.5	142.3	151.5	160.6	162.9	203.6	257.7	284.8	335.4	436.5
125°	171.6	163.3	154.9	163.3	171.6	173.6	209.2	256.6	280.3	323.2	409.2
127.5°	181.9	173.5	165.1	173.5	181.9	184.0	214.9	255.9	276.4	313.4	387.1
130°	188.7	179.7	170.6	179.7	188.7	190.9	218.9	256.3	275.0	307.8	373.5
132.5°	194.3	185.3	176.2	185.3	194.3	196.6	222.3	256.6	273.7	303.1	361.9
135°	201.1	192.8	184.6	192.8	201.1	203.2	226.0	256.3	271.5	296.2	345.4
137.5°	209.5	201.3	193.1	201.3	209.5	211.6	231.4	257.9	271.2	292.0	333.6
140°	215.3	207.8	200.2	207.8	215.3	217.2	234.8	258.2	269.9	287.9	323.8
142.5°	219.7	212.7	205.8	212.7	219.7	221.4	237.6	259.2	269.9	285.7	317.3
145°	226.2	220.2	214.1	220.2	226.2	227.8	241.2	259.2	268.1	281.0	306.8
147.5°	234.3	228.4	222.5	228.4	234.3	235.8	246.5	260.9	268.1	278.3	298.5
150°	238.6	233.3	228.0	233.3	238.6	240.0	249.3	261.8	268.1	276.6	293.8
152.5°	241.7	237.6	233.6	237.6	241.7	242.7	251.2	262.4	268.1	275.3	290.0
155°	248.0	245.0	242.0	245.0	248.0	248.7	255.2	263.8	268.1	273.9	285.5
157.5°	254.0	251.1	248.1	251.1	254.0	254.7	259.2	265.1	268.1	272.6	281.6
160°	256.9	254.6	252.3	254.6	256.9	257.4	261.0	265.7	268.1	272.0	279.7
162.5°	259.9	258.2	256.5	258.2	259.9	260.3	262.9	266.3	268.1	271.3	277.9
165°	264.2	262.7	261.2	262.7	264.2	264.6	265.8	267.3	268.1	270.4	275.1
167.5°	266.8	266.1	265.3	266.1	266.8	267.0	268.0	269.3	269.9	271.4	274.5
170°	269.5	268.8	268.1	268.8	269.5	269.7	269.8	269.9	269.9	271.4	274.5
172.5°	269.9	269.7	269.5	269.7	269.9	269.9	269.9	269.9	269.9	271.1	273.5
175°	271.5	271.5	271.5	271.5	271.5	271.5	271.0	270.3	269.9	270.6	272.2
177.5°	271.5	271.5	271.5	271.5	271.5	271.5	271.1	270.5	270.3	270.9	272.1
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5



TEST NUMBER: P934046

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7
2.5°	2451.7	2444.6	2454.2	2427.7	2454.2	2444.6	2451.7	2468.6	2454.2	2463.8	2473.4
5°	2151.3	2139.3	2100.8	2069.6	2100.8	2139.3	2151.3	2201.8	2225.8	2269.1	2326.8
7.5°	1923.0	1913.3	1903.7	1884.5	1903.7	1913.3	1923.0	1937.3	1961.5	1999.8	2043.1
10°	1872.5	1874.9	1889.3	1886.9	1889.3	1874.9	1872.5	1867.7	1860.5	1867.7	1894.1
12.5°	2002.3	2023.9	2103.3	2098.4	2103.3	2023.9	2002.3	1906.1	1841.2	1829.2	1834.0
15°	2151.3	2158.5	2175.3	2177.8	2175.3	2158.5	2151.3	2112.8	1918.2	1834.0	1807.5
17.5°	2165.8	2168.1	2180.1	2180.1	2180.1	2168.1	2165.8	2148.9	2084.0	1971.0	1822.0
20°	2153.7	2158.5	2182.6	2187.4	2182.6	2158.5	2153.7	2132.1	2096.0	2055.1	1942.2
22.5°	2148.9	2158.5	2177.8	2175.3	2177.8	2158.5	2148.9	2115.3	2084.0	2055.1	2009.5
25°	2124.8	2124.8	2127.3	2129.6	2127.3	2124.8	2124.8	2098.4	2035.9	2028.7	2002.3
27.5°	2074.4	2079.2	2093.6	2091.3	2093.6	2079.2	2074.4	2064.8	1997.5	1990.3	1971.0
30°	2028.7	2023.9	2011.8	2002.3	2011.8	2023.9	2028.7	2014.3	1947.0	1927.8	1932.5
32.5°	1951.8	1939.8	1927.8	1920.5	1927.8	1939.8	1951.8	1947.0	1896.5	1870.0	1874.9
35°	1860.5	1862.8	1860.5	1853.2	1860.5	1862.8	1860.5	1865.3	1834.0	1810.0	1807.5
37.5°	1795.5	1800.4	1798.0	1788.3	1798.0	1800.4	1795.5	1790.7	1747.5	1740.3	1745.0
40°	1728.2	1730.7	1728.2	1721.0	1728.2	1730.7	1728.2	1718.7	1658.5	1660.9	1677.7
42.5°	1663.4	1660.9	1653.7	1648.9	1653.7	1660.9	1663.4	1648.9	1572.0	1564.8	1596.0
45°	1588.9	1591.2	1576.9	1569.6	1576.9	1591.2	1588.9	1579.2	1499.9	1480.7	1502.3
47.5°	1514.4	1514.4	1502.3	1495.1	1502.3	1514.4	1514.4	1502.3	1418.2	1398.9	1410.9
50°	1435.0	1432.6	1415.8	1413.4	1415.8	1432.6	1435.0	1427.8	1338.9	1322.1	1322.1
52.5°	1343.6	1343.6	1346.1	1350.9	1346.1	1343.6	1343.6	1346.1	1266.8	1249.9	1245.1
55°	1264.3	1266.8	1283.6	1288.4	1283.6	1266.8	1264.3	1264.3	1192.3	1175.4	1165.8
57.5°	1182.6	1182.6	1194.6	1194.6	1194.6	1182.6	1182.6	1177.8	1108.1	1093.7	1088.8
60°	1088.8	1093.7	1103.3	1100.9	1103.3	1093.7	1088.8	1084.1	1024.0	1014.3	997.5
62.5°	990.3	995.1	997.5	992.7	997.5	995.1	990.3	975.9	939.8	932.7	911.0
65°	887.0	891.8	894.2	889.4	894.2	891.8	887.0	879.7	853.3	841.3	822.0
67.5°	781.2	778.8	776.4	786.0	776.4	778.8	781.2	771.6	754.7	745.2	718.7
70°	673.0	673.0	670.6	675.4	670.6	673.0	673.0	665.9	656.2	649.0	624.9
72.5°	557.7	555.2	564.9	557.7	564.9	555.2	557.7	555.2	550.4	543.2	519.2
75°	444.7	449.5	444.7	451.9	444.7	449.5	444.7	447.1	444.7	439.9	423.1
77.5°	338.9	343.8	338.9	338.9	338.9	343.8	338.9	341.3	341.3	341.3	326.9
80°	240.3	238.0	238.0	235.6	238.0	238.0	240.3	240.3	242.8	238.0	233.1
82.5°	153.8	151.5	151.5	156.3	151.5	151.5	153.8	156.3	151.5	151.5	151.5
85°	84.1	86.5	81.7	81.7	81.7	86.5	84.1	79.3	84.1	84.1	81.7
87.5°	31.3	28.8	28.8	28.8	28.8	28.8	31.3	33.7	33.7	33.7	36.0
90°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	9.2	12.3	13.8	11.9
92.5°	34.7	33.3	27.7	22.2	27.7	33.3	34.7	49.1	68.3	78.0	68.5
95°	117.5	113.3	96.7	80.0	96.7	113.3	117.5	154.4	203.4	228.0	192.5
97.5°	271.3	263.4	231.6	199.8	231.6	263.4	271.3	294.6	325.7	341.1	282.0
100°	381.0	371.6	333.7	295.9	333.7	371.6	381.0	379.3	377.0	375.9	310.3
102.5°	474.6	466.6	434.2	401.8	434.2	466.6	474.6	445.0	405.5	385.8	319.3
105°	584.0	579.6	562.2	544.8	562.2	579.6	584.0	517.6	429.0	384.7	320.3
107.5°	640.8	641.9	646.1	650.3	646.1	641.9	640.8	548.1	424.5	362.8	306.0
110°	655.4	659.9	678.0	696.2	678.0	659.9	655.4	551.8	413.6	344.6	293.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	646.1	653.1	681.0	708.8	681.0	653.1	646.1	540.1	398.7	328.0	282.4
115°	614.6	624.3	662.9	701.5	662.9	624.3	614.6	512.5	376.2	308.1	269.7
117.5°	571.1	581.8	624.6	667.5	624.6	581.8	571.1	478.8	355.9	294.4	261.8
120°	541.7	552.1	593.7	635.4	593.7	552.1	541.7	457.5	345.1	289.0	259.2
122.5°	512.4	522.7	563.7	604.7	563.7	522.7	512.4	436.5	335.4	284.8	257.7
125°	473.6	483.0	520.9	558.7	520.9	483.0	473.6	409.2	323.2	280.3	256.6
127.5°	442.4	450.5	482.3	514.2	482.3	450.5	442.4	387.1	313.4	276.4	255.9
130°	422.7	430.1	459.5	489.0	459.5	430.1	422.7	373.5	307.8	275.0	256.3
132.5°	406.0	412.6	439.0	465.4	439.0	412.6	406.0	361.9	303.1	273.7	256.6
135°	382.3	388.0	410.7	433.4	410.7	388.0	382.3	345.4	296.2	271.5	256.3
137.5°	364.8	369.4	388.1	406.7	388.1	369.4	364.8	333.6	292.0	271.2	257.9
140°	350.8	355.1	372.5	390.0	372.5	355.1	350.8	323.8	287.9	269.9	258.2
142.5°	340.9	344.7	359.7	374.6	359.7	344.7	340.9	317.3	285.7	269.9	259.2
145°	326.2	329.0	340.4	351.7	340.4	329.0	326.2	306.8	281.0	268.1	259.2
147.5°	313.7	316.1	325.5	334.9	325.5	316.1	313.7	298.5	278.3	268.1	260.9
150°	306.6	308.5	316.2	323.8	316.2	308.5	306.6	293.8	276.6	268.1	261.8
152.5°	301.0	302.5	308.2	313.9	308.2	302.5	301.0	290.0	275.3	268.1	262.4
155°	294.3	295.2	299.0	302.8	299.0	295.2	294.3	285.5	273.9	268.1	263.8
157.5°	288.4	289.1	291.8	294.4	291.8	289.1	288.4	281.6	272.6	268.1	265.1
160°	285.5	285.9	287.4	289.0	287.4	285.9	285.5	279.7	272.0	268.1	265.7
162.5°	282.8	283.2	284.6	286.1	284.6	283.2	282.8	277.9	271.3	268.1	266.3
165°	278.6	279.0	280.5	282.1	280.5	279.0	278.6	275.1	270.4	268.1	267.3
167.5°	276.8	277.0	277.6	278.3	277.6	277.0	276.8	274.5	271.4	269.9	269.3
170°	276.8	276.8	276.8	276.8	276.8	276.8	276.8	274.5	271.4	269.9	269.9
172.5°	275.3	275.2	274.6	274.1	274.6	275.2	275.3	273.5	271.1	269.9	269.9
175°	273.3	273.3	273.3	273.3	273.3	273.3	273.3	272.2	270.6	269.9	270.3
177.5°	273.0	272.8	272.2	271.5	272.2	272.8	273.0	272.1	270.9	270.3	270.5
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2540.7	2540.7	2540.7	2540.7	2540.7
2.5°	2509.4	2521.5	2528.7	2538.3	2562.4
5°	2413.3	2458.9	2473.4	2509.4	2552.7
7.5°	2201.8	2341.2	2379.6	2466.2	2533.5
10°	1997.5	2136.9	2204.1	2408.5	2509.4
12.5°	1894.1	1975.8	2021.5	2307.6	2475.8
15°	1829.2	1886.9	1920.5	2172.9	2437.4
17.5°	1778.7	1819.6	1843.7	2040.8	2384.4
20°	1747.5	1766.7	1788.3	1944.6	2324.4
22.5°	1725.9	1713.8	1730.7	1877.3	2242.6
25°	1711.4	1665.7	1685.0	1824.4	2146.5
27.5°	1723.5	1622.5	1629.7	1776.3	2045.5
30°	1725.9	1569.6	1572.0	1725.9	1932.5
32.5°	1709.0	1514.4	1516.7	1663.4	1805.2
35°	1668.2	1449.4	1447.1	1591.2	1632.1
37.5°	1612.9	1379.7	1379.7	1511.9	1442.2
40°	1545.6	1310.0	1317.2	1408.6	1273.9
42.5°	1463.9	1235.5	1245.1	1271.6	1149.0
45°	1374.9	1163.4	1170.6	1074.5	1052.8
47.5°	1276.4	1088.8	1091.3	891.8	1021.6
50°	1158.6	1012.0	1002.3	764.4	1019.2
52.5°	1055.2	927.8	899.0	692.2	925.5
55°	954.3	838.9	776.4	637.0	858.2
57.5°	865.3	723.5	663.4	572.1	843.7
60°	783.6	610.5	564.9	502.4	774.0
62.5°	716.3	526.4	516.8	454.3	701.9
65°	644.2	468.7	466.3	413.4	596.1
67.5°	574.5	430.3	427.9	375.0	454.3
70°	499.9	389.4	384.6	334.1	336.5
72.5°	423.1	343.8	338.9	300.5	278.8
75°	346.1	290.8	288.4	262.0	226.0
77.5°	271.6	230.8	235.6	211.5	165.8
80°	194.7	168.3	173.1	151.5	125.0
82.5°	129.8	110.6	115.3	96.1	84.1
85°	72.1	62.5	64.9	50.5	38.5
87.5°	33.7	28.8	28.8	19.2	12.0
90°	8.0	5.1	4.7	3.3	1.8
92.5°	49.5	35.2	32.1	19.6	7.3
95°	121.6	68.5	62.9	40.1	17.5
97.5°	163.8	75.2	70.2	50.3	30.3
100°	179.2	80.9	76.3	58.2	40.1
102.5°	186.3	86.5	82.3	65.4	48.5
105°	191.6	95.0	91.4	77.0	62.7
107.5°	192.5	107.3	104.0	90.6	77.2
110°	191.0	114.3	111.2	99.2	87.1



TEST NUMBER: P934046

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	191.1	122.6	119.7	108.2	96.8
115°	192.8	135.2	132.5	121.9	111.3
117.5°	196.5	147.5	145.0	135.4	125.7
120°	199.4	154.5	152.3	143.2	134.1
122.5°	203.6	162.9	160.6	151.5	142.3
125°	209.2	173.6	171.6	163.3	154.9
127.5°	214.9	184.0	181.9	173.5	165.1
130°	218.9	190.9	188.7	179.7	170.6
132.5°	222.3	196.6	194.3	185.3	176.2
135°	226.0	203.2	201.1	192.8	184.6
137.5°	231.4	211.6	209.5	201.3	193.1
140°	234.8	217.2	215.3	207.8	200.2
142.5°	237.6	221.4	219.7	212.7	205.8
145°	241.2	227.8	226.2	220.2	214.1
147.5°	246.5	235.8	234.3	228.4	222.5
150°	249.3	240.0	238.6	233.3	228.0
152.5°	251.2	242.7	241.7	237.6	233.6
155°	255.2	248.7	248.0	245.0	242.0
157.5°	259.2	254.7	254.0	251.1	248.1
160°	261.0	257.4	256.9	254.6	252.3
162.5°	262.9	260.3	259.9	258.2	256.5
165°	265.8	264.6	264.2	262.7	261.2
167.5°	268.0	267.0	266.8	266.1	265.3
170°	269.8	269.7	269.5	268.8	268.1
172.5°	269.9	269.9	269.9	269.7	269.5
175°	271.0	271.5	271.5	271.5	271.5
177.5°	271.1	271.5	271.5	271.5	271.5
180°	271.5	271.5	271.5	271.5	271.5



TEST NUMBER: P934046

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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	15.71	16.91	16.37	17.59	18.38	18.55	19.75	19.21	20.43	21.22
	3H	16.22	17.29	16.89	17.98	18.80	19.92	21.00	20.60	21.69	22.51
	4H	16.42	17.44	17.12	18.14	18.97	20.38	21.40	21.08	22.10	22.93
	6H	16.56	17.50	17.27	18.21	19.05	20.69	21.63	21.40	22.34	23.19
	8H	16.57	17.46	17.29	18.19	19.04	20.77	21.67	21.49	22.40	23.25
	12H	16.55	17.40	17.28	18.13	19.01	20.82	21.68	21.55	22.40	23.28
4H	2H	16.79	17.80	17.49	18.50	19.34	19.00	20.02	19.70	20.71	21.55
	3H	17.85	18.69	18.56	19.43	20.28	20.54	21.39	21.25	22.12	22.98
	4H	18.14	18.90	18.86	19.64	20.53	21.08	21.85	21.81	22.59	23.47
	6H	18.28	18.95	19.03	19.71	20.60	21.47	22.13	22.21	22.90	23.79
	8H	18.29	18.92	19.04	19.68	20.58	21.58	22.21	22.33	22.97	23.87
	12H	18.28	18.84	19.05	19.62	20.53	21.66	22.22	22.43	23.00	23.91
8H	4H	18.62	19.24	19.37	20.00	20.90	21.23	21.86	21.98	22.62	23.52
	6H	18.89	19.41	19.67	20.21	21.12	21.69	22.20	22.47	23.00	23.91
	8H	18.94	19.40	19.73	20.20	21.12	21.84	22.30	22.64	23.10	24.03
	12H	18.94	19.34	19.73	20.14	21.12	21.96	22.36	22.75	23.16	24.14
12H	4H	18.64	19.20	19.41	19.98	20.89	21.21	21.77	21.99	22.56	23.47
	6H	18.96	19.42	19.75	20.22	21.14	21.69	22.15	22.48	22.95	23.87
	8H	19.04	19.44	19.83	20.24	21.22	21.86	22.27	22.66	23.06	24.04