

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: P934941

Luminaire Tested: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934941
REPORT IS A COMBINATION OF REPORTS P933719 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

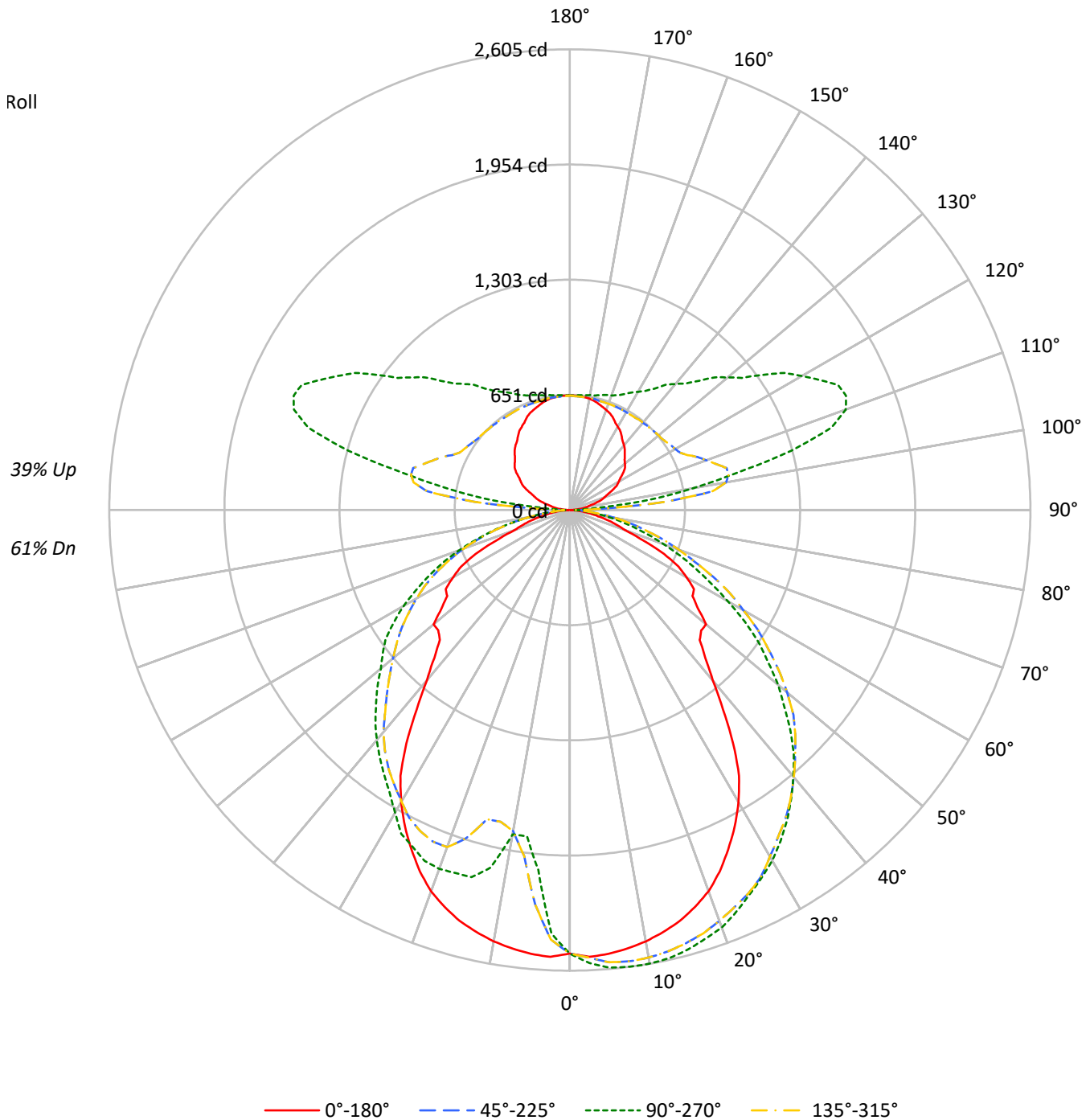
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10702.4 lumens
Efficiency: N/A
Efficacy: 115.1 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): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15512	15512	15512	15512
5°	15623	15659	15623	12313
10°	15513	15425	15513	11028
15°	15339	15091	15339	12601
20°	15011	14695	15011	12628
25°	14349	14118	14349	12360
30°	13495	13638	13495	11773
35°	12025	13032	12025	11127
40°	10014	12318	10014	10639
45°	8942	11483	8942	10078
50°	9492	10486	9492	9515
55°	8922	9412	8922	9189
60°	9186	7994	9186	8417
65°	8316	6607	8316	7387
70°	5744	5266	5744	6191
75°	5018	3893	5018	4661
80°	4016	2573	4016	2802
85°	2260	1363	2260	1159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13713 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	2.1
10°-20°	642.7	6.0
20°-30°	993.5	9.3
30°-40°	1186.0	11.1
40°-50°	1193.0	11.1
50°-60°	1038.0	9.7
60°-70°	736.0	6.9
70°-80°	389.4	3.6
80°-90°	99.4	0.9
90°-100°	315.7	2.9
100°-110°	829.9	7.8
110°-120°	860.5	8.0
120°-130°	690.3	6.4
130°-140°	541.6	5.1
140°-150°	415.7	3.9
150°-160°	299.4	2.8
160°-170°	183.2	1.7
170°-180°	61.9	0.6
0°-30°	1862.5	17.4
0°-40°	3048.5	28.5
0°-60°	5279.5	49.3
0°-90°	6504.3	60.8
90°-120°	2006.1	18.7
90°-150°	3653.7	34.1
90°-180°	4198.0	39.2
0°-180°	10702.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2508	2508	2508	2508	2508	
5°	2520	2598	2520	2043	2520	239
15°	2406	2574	2406	2149	2406	677
25°	2118	2401	2118	2102	2118	973
35°	1611	2142	1611	1829	1611	997
45°	1039	1765	1039	1549	1039	832
55°	847	1302	847	1272	847	778
65°	588	785	588	878	588	562
75°	223	372	223	446	223	234
85°	38	95	38	81	38	51
90°	4	16	4	16	4	5
95°	42	191	42	191	42	46
105°	150	1300	150	1300	150	159
115°	266	1673	266	1673	266	262
125°	369	1333	369	1333	369	328
135°	440	1034	440	1034	440	341
145°	511	839	511	839	511	320
155°	577	722	577	722	577	265
165°	623	673	623	673	623	176
175°	648	652	648	652	648	61
180°	648	648	648	648	648	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6
2.5°	2528.9	2528.9	2543.2	2547.9	2547.9	2540.8	2533.7	2540.8	2562.2	2569.3	2566.9
5°	2519.5	2538.5	2564.6	2569.3	2574.1	2571.7	2566.9	2571.7	2595.4	2600.2	2602.5
7.5°	2500.5	2536.0	2569.3	2576.4	2583.5	2576.4	2574.1	2578.8	2602.5	2607.3	2607.3
10°	2476.8	2526.6	2564.6	2569.3	2576.4	2569.3	2569.3	2578.8	2602.5	2607.3	2609.6
12.5°	2443.6	2512.4	2547.9	2552.7	2562.2	2559.8	2557.4	2566.9	2590.6	2595.4	2595.4
15°	2405.7	2486.2	2519.5	2524.3	2540.8	2536.0	2536.0	2545.6	2571.7	2578.8	2576.4
17.5°	2353.4	2453.0	2491.0	2498.1	2510.0	2507.6	2510.0	2519.5	2543.2	2547.9	2550.3
20°	2294.1	2408.0	2453.0	2460.1	2472.0	2472.0	2472.0	2483.9	2507.6	2517.1	2517.1
22.5°	2213.5	2360.5	2408.0	2412.8	2427.0	2427.0	2431.7	2448.3	2469.7	2472.0	2472.0
25°	2118.5	2308.3	2348.6	2362.9	2377.1	2384.2	2391.4	2400.9	2408.0	2405.7	2408.0
27.5°	2018.9	2241.9	2294.1	2303.6	2322.6	2329.7	2339.2	2341.5	2344.0	2351.1	2346.3
30°	1907.4	2149.4	2227.7	2237.1	2268.0	2272.7	2263.3	2268.0	2279.8	2284.6	2289.4
32.5°	1781.6	2011.8	2158.9	2180.2	2208.7	2194.5	2192.1	2199.2	2218.2	2218.2	2222.9
35°	1610.9	1905.0	2094.9	2113.8	2135.1	2118.5	2128.0	2130.4	2142.3	2149.4	2147.0
37.5°	1423.5	1812.5	2028.4	2042.6	2059.3	2037.8	2052.1	2059.3	2068.7	2064.0	2064.0
40°	1257.4	1667.8	1950.1	1959.6	1973.8	1957.2	1971.5	1976.2	1980.9	1976.2	1973.8
42.5°	1134.0	1508.8	1867.1	1878.9	1869.4	1881.3	1886.0	1895.6	1888.4	1878.9	1878.9
45°	1039.1	1466.2	1776.9	1791.2	1776.9	1795.9	1803.0	1803.0	1781.6	1776.9	1774.5
47.5°	1008.3	1380.7	1686.8	1686.8	1679.7	1703.4	1715.3	1698.6	1677.2	1670.1	1670.1
50°	1005.9	1285.9	1563.4	1553.9	1587.1	1615.6	1603.8	1587.1	1570.5	1544.4	1544.4
52.5°	913.4	1169.6	1404.5	1440.0	1492.3	1508.8	1489.8	1473.3	1444.8	1432.9	1423.5
55°	846.9	1048.6	1259.7	1330.9	1385.5	1406.8	1371.2	1354.7	1312.0	1304.8	1300.1
57.5°	832.7	873.0	1126.9	1217.1	1283.4	1281.1	1259.7	1228.9	1193.3	1186.2	1183.8
60°	763.9	631.0	984.5	1091.3	1160.1	1153.0	1134.0	1105.6	1072.3	1067.6	1062.9
62.5°	692.7	457.9	823.2	944.2	1041.4	1039.1	1022.5	979.8	956.1	944.2	934.7
65°	588.4	384.4	586.0	785.2	925.3	929.9	894.4	863.6	837.5	823.2	820.9
67.5°	448.4	313.1	396.2	654.8	813.8	809.0	763.9	749.6	716.5	709.3	695.1
70°	332.1	208.8	275.2	531.4	704.6	692.7	657.2	640.6	609.7	593.1	583.6
72.5°	275.2	168.4	201.6	412.8	593.1	578.9	548.0	529.0	503.0	488.8	479.2
75°	223.0	178.0	154.2	306.0	481.6	472.1	443.6	424.6	403.3	384.4	386.7
77.5°	163.7	166.1	123.4	225.4	381.9	367.7	351.1	327.4	317.9	298.9	298.9
80°	123.4	130.5	92.5	154.2	275.2	275.2	261.0	244.3	227.8	218.3	218.3
82.5°	83.0	83.0	68.8	97.3	187.4	180.3	170.8	166.1	156.6	151.8	151.8
85°	37.9	47.5	42.7	59.4	102.0	106.7	106.7	102.0	99.6	94.9	97.3
87.5°	11.9	21.3	26.1	33.2	52.2	54.6	56.9	56.9	56.9	59.4	59.4
90°	4.3	7.8	11.3	12.2	19.1	28.3	33.0	29.3	22.1	16.5	16.5
92.5°	17.4	46.9	76.5	83.8	117.9	163.3	186.0	163.0	117.0	82.5	79.3
95°	41.7	95.8	149.8	163.4	290.1	459.2	543.7	485.2	368.1	280.3	270.4
97.5°	72.2	119.8	167.5	179.5	390.9	672.7	813.7	776.6	702.7	647.2	628.2
100°	95.6	138.9	182.2	193.0	427.5	740.3	896.7	899.4	904.8	908.8	886.3
102.5°	115.6	156.0	196.4	206.5	444.4	761.5	920.1	967.2	1061.5	1132.2	1112.9
105°	149.6	183.8	218.0	226.5	456.8	763.9	917.5	1023.1	1234.5	1393.0	1382.6
107.5°	184.3	216.2	248.1	256.0	459.1	729.9	865.4	1012.8	1307.6	1528.6	1531.1
110°	207.8	236.6	265.3	272.5	455.6	699.8	821.9	986.7	1316.3	1563.4	1574.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	230.8	258.2	285.6	292.5	455.8	673.5	782.3	951.0	1288.2	1541.1	1557.8
115°	265.5	290.9	316.1	322.5	460.0	643.3	735.0	897.4	1222.3	1466.0	1489.0
117.5°	299.9	322.8	345.8	351.6	468.6	624.4	702.3	849.0	1142.2	1362.1	1387.7
120°	319.9	341.5	363.1	368.6	475.5	618.0	689.3	823.3	1091.2	1292.1	1317.0
122.5°	339.5	361.3	383.1	388.6	485.5	614.8	679.3	799.9	1041.2	1222.1	1246.6
125°	369.4	389.3	409.2	414.2	498.9	612.0	668.5	770.9	975.9	1129.6	1152.1
127.5°	393.8	413.9	433.9	438.9	512.4	610.4	659.3	747.3	923.3	1055.3	1074.4
130°	406.8	428.5	450.1	455.5	522.3	611.4	655.9	734.2	890.9	1008.4	1025.9
132.5°	420.2	441.9	463.5	468.9	530.3	612.0	652.8	722.9	863.2	968.4	984.1
135°	440.2	460.0	479.7	484.6	539.0	611.4	647.6	706.3	823.8	911.8	925.4
137.5°	460.7	480.2	499.7	504.6	551.9	615.1	646.7	696.4	795.6	870.1	881.2
140°	477.6	495.6	513.6	518.1	560.0	615.8	643.6	686.5	772.3	836.7	847.0
142.5°	490.7	507.4	524.0	528.1	566.6	617.9	643.6	681.3	756.6	813.2	822.2
145°	510.7	525.2	539.6	543.3	575.3	618.0	639.3	670.2	731.8	778.0	784.7
147.5°	530.6	544.7	558.9	562.4	588.0	622.2	639.3	663.5	712.1	748.4	754.0
150°	543.7	556.4	569.2	572.4	594.8	624.5	639.3	659.8	700.7	731.5	736.1
152.5°	557.2	566.9	576.5	579.0	599.1	625.9	639.3	656.8	691.8	718.0	721.5
155°	577.2	584.3	591.5	593.3	608.6	629.1	639.3	653.3	681.1	702.0	704.2
157.5°	591.9	599.0	605.9	607.7	618.2	632.3	639.3	650.2	671.8	688.0	689.6
160°	602.0	607.4	612.8	614.1	622.5	633.7	639.3	648.6	667.1	681.0	682.0
162.5°	612.0	616.1	620.1	621.1	627.2	635.3	639.3	647.2	662.8	674.6	675.4
165°	622.8	626.5	630.2	631.1	633.8	637.5	639.3	644.9	656.2	664.6	665.5
167.5°	632.8	634.6	636.3	636.7	639.1	642.1	643.6	647.3	654.7	660.2	660.6
170°	639.3	641.1	642.8	643.3	643.4	643.5	643.6	647.3	654.7	660.2	660.2
172.5°	642.8	643.2	643.5	643.6	643.6	643.6	643.6	646.5	652.3	656.7	656.4
175°	647.6	647.6	647.6	647.6	646.3	644.5	643.6	645.5	649.2	652.0	652.0
177.5°	647.6	647.6	647.6	647.6	646.5	645.2	644.6	646.1	649.0	651.1	650.7
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6
2.5°	2571.7	2564.6	2571.7	2566.9	2569.3	2562.2	2540.8	2533.7	2540.8	2547.9	2547.9
5°	2602.5	2597.7	2602.5	2602.5	2600.2	2595.4	2571.7	2566.9	2571.7	2574.1	2569.3
7.5°	2612.0	2604.9	2612.0	2607.3	2607.3	2602.5	2578.8	2574.1	2576.4	2583.5	2576.4
10°	2612.0	2604.9	2612.0	2609.6	2607.3	2602.5	2578.8	2569.3	2569.3	2576.4	2569.3
12.5°	2600.2	2595.4	2600.2	2595.4	2595.4	2590.6	2566.9	2557.4	2559.8	2562.2	2552.7
15°	2581.2	2574.1	2581.2	2576.4	2578.8	2571.7	2545.6	2536.0	2536.0	2540.8	2524.3
17.5°	2552.7	2543.2	2552.7	2550.3	2547.9	2543.2	2519.5	2510.0	2507.6	2510.0	2498.1
20°	2519.5	2512.4	2519.5	2517.1	2517.1	2507.6	2483.9	2472.0	2472.0	2472.0	2460.1
22.5°	2467.2	2460.1	2467.2	2472.0	2472.0	2469.7	2448.3	2431.7	2427.0	2427.0	2412.8
25°	2408.0	2400.9	2408.0	2408.0	2405.7	2408.0	2400.9	2391.4	2384.2	2377.1	2362.9
27.5°	2351.1	2346.3	2351.1	2346.3	2351.1	2344.0	2341.5	2339.2	2329.7	2322.6	2303.6
30°	2294.1	2289.4	2294.1	2289.4	2284.6	2279.8	2268.0	2263.3	2272.7	2268.0	2237.1
32.5°	2222.9	2218.2	2222.9	2222.9	2218.2	2218.2	2199.2	2192.1	2194.5	2208.7	2180.2
35°	2149.4	2142.3	2149.4	2147.0	2149.4	2142.3	2130.4	2128.0	2118.5	2135.1	2113.8
37.5°	2064.0	2056.8	2064.0	2064.0	2064.0	2068.7	2059.3	2052.1	2037.8	2059.3	2042.6
40°	1976.2	1966.7	1976.2	1973.8	1976.2	1980.9	1976.2	1971.5	1957.2	1973.8	1959.6
42.5°	1876.6	1874.2	1876.6	1878.9	1878.9	1888.4	1895.6	1886.0	1881.3	1869.4	1878.9
45°	1769.8	1765.1	1769.8	1774.5	1776.9	1781.6	1803.0	1803.0	1795.9	1776.9	1791.2
47.5°	1655.9	1644.1	1655.9	1670.1	1670.1	1677.2	1698.6	1715.3	1703.4	1679.7	1686.8
50°	1535.0	1537.3	1535.0	1544.4	1544.4	1570.5	1587.1	1603.8	1615.6	1587.1	1553.9
52.5°	1416.4	1413.9	1416.4	1423.5	1432.9	1444.8	1473.3	1489.8	1508.8	1492.3	1440.0
55°	1297.7	1302.4	1297.7	1300.1	1304.8	1312.0	1354.7	1371.2	1406.8	1385.5	1330.9
57.5°	1179.0	1171.9	1179.0	1183.8	1186.2	1193.3	1228.9	1259.7	1281.1	1283.4	1217.1
60°	1041.4	1032.0	1041.4	1062.9	1067.6	1072.3	1105.6	1134.0	1153.0	1160.1	1091.3
62.5°	920.5	903.9	920.5	934.7	944.2	956.1	979.8	1022.5	1039.1	1041.4	944.2
65°	792.4	785.2	792.4	820.9	823.2	837.5	863.6	894.4	929.9	925.3	785.2
67.5°	676.2	676.2	676.2	695.1	709.3	716.5	749.6	763.9	809.0	813.8	654.8
70°	569.3	567.0	569.3	583.6	593.1	609.7	640.6	657.2	692.7	704.6	531.4
72.5°	467.4	465.0	467.4	479.2	488.8	503.0	529.0	548.0	578.9	593.1	412.8
75°	377.2	372.5	377.2	386.7	384.4	403.3	424.6	443.6	472.1	481.6	306.0
77.5°	289.5	289.5	289.5	298.9	298.9	317.9	327.4	351.1	367.7	381.9	225.4
80°	215.9	213.5	215.9	218.3	218.3	227.8	244.3	261.0	275.2	275.2	154.2
82.5°	151.8	147.1	151.8	151.8	151.8	156.6	166.1	170.8	180.3	187.4	97.3
85°	94.9	94.9	94.9	97.3	94.9	99.6	102.0	106.7	106.7	102.0	59.4
87.5°	61.7	59.4	61.7	59.4	59.4	56.9	56.9	56.9	54.6	52.2	33.2
90°	16.5	16.5	16.5	16.5	16.5	22.1	29.3	33.0	28.3	19.1	12.2
92.5°	66.1	53.0	66.1	79.3	82.5	117.0	163.0	186.0	163.3	117.9	83.8
95°	230.6	190.8	230.6	270.4	280.3	368.1	485.2	543.7	459.2	290.1	163.4
97.5°	552.5	476.8	552.5	628.2	647.2	702.7	776.6	813.7	672.7	390.9	179.5
100°	796.0	705.8	796.0	886.3	908.8	904.8	899.4	896.7	740.3	427.5	193.0
102.5°	1035.7	958.4	1035.7	1112.9	1132.2	1061.5	967.2	920.1	761.5	444.4	206.5
105°	1341.0	1299.5	1341.0	1382.6	1393.0	1234.5	1023.1	917.5	763.9	456.8	226.5
107.5°	1541.1	1551.1	1541.1	1531.1	1528.6	1307.6	1012.8	865.4	729.9	459.1	256.0
110°	1617.4	1660.7	1617.4	1574.2	1563.4	1316.3	986.7	821.9	699.8	455.6	272.5



TEST NUMBER: P934941

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1624.2	1690.7	1624.2	1557.8	1541.1	1288.2	951.0	782.3	673.5	455.8	292.5
115°	1581.1	1673.3	1581.1	1489.0	1466.0	1222.3	897.4	735.0	643.3	460.0	322.5
117.5°	1489.8	1592.0	1489.8	1387.7	1362.1	1142.2	849.0	702.3	624.4	468.6	351.6
120°	1416.3	1515.5	1416.3	1317.0	1292.1	1091.2	823.3	689.3	618.0	475.5	368.6
122.5°	1344.6	1442.5	1344.6	1246.6	1222.1	1041.2	799.9	679.3	614.8	485.5	388.6
125°	1242.4	1332.6	1242.4	1152.1	1129.6	975.9	770.9	668.5	612.0	498.9	414.2
127.5°	1150.4	1226.5	1150.4	1074.4	1055.3	923.3	747.3	659.3	610.4	512.4	438.9
130°	1096.2	1166.5	1096.2	1025.9	1008.4	890.9	734.2	655.9	611.4	522.3	455.5
132.5°	1047.1	1110.1	1047.1	984.1	968.4	863.2	722.9	652.8	612.0	530.3	468.9
135°	979.7	1034.0	979.7	925.4	911.8	823.8	706.3	647.6	611.4	539.0	484.6
137.5°	925.6	970.1	925.6	881.2	870.1	795.6	696.4	646.7	615.1	551.9	504.6
140°	888.6	930.1	888.6	847.0	836.7	772.3	686.5	643.6	615.8	560.0	518.1
142.5°	857.9	893.6	857.9	822.2	813.2	756.6	681.3	643.6	617.9	566.6	528.1
145°	811.8	838.8	811.8	784.7	778.0	731.8	670.2	639.3	618.0	575.3	543.3
147.5°	776.4	798.8	776.4	754.0	748.4	712.1	663.5	639.3	622.2	588.0	562.4
150°	754.2	772.3	754.2	736.1	731.5	700.7	659.8	639.3	624.5	594.8	572.4
152.5°	735.1	748.9	735.1	721.5	718.0	691.8	656.8	639.3	625.9	599.1	579.0
155°	713.3	722.3	713.3	704.2	702.0	681.1	653.3	639.3	629.1	608.6	593.3
157.5°	696.0	702.3	696.0	689.6	688.0	671.8	650.2	639.3	632.3	618.2	607.7
160°	685.6	689.3	685.6	682.0	681.0	667.1	648.6	639.3	633.7	622.5	614.1
162.5°	678.9	682.3	678.9	675.4	674.6	662.8	647.2	639.3	635.3	627.2	621.1
165°	669.2	672.8	669.2	665.5	664.6	656.2	644.9	639.3	637.5	633.8	631.1
167.5°	662.1	663.6	662.1	660.6	660.2	654.7	647.3	643.6	642.1	639.1	636.7
170°	660.2	660.2	660.2	660.2	660.2	654.7	647.3	643.6	643.5	643.4	643.3
172.5°	655.0	653.6	655.0	656.4	656.7	652.3	646.5	643.6	643.6	643.6	643.6
175°	652.0	652.0	652.0	652.0	652.0	649.2	645.5	643.6	644.5	646.3	647.6
177.5°	649.2	647.6	649.2	650.7	651.1	649.0	646.1	644.6	645.2	646.5	647.6
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



TEST NUMBER: P934941

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6
2.5°	2543.2	2528.9	2528.9	2505.3	2495.8	2488.7	2476.8	2441.2	2431.7	2422.2	2436.4
5°	2564.6	2538.5	2519.5	2476.8	2441.2	2427.0	2381.9	2296.5	2239.6	2196.8	2173.1
7.5°	2569.3	2536.0	2500.5	2434.1	2348.6	2310.7	2173.1	2016.5	1973.8	1935.9	1912.1
10°	2564.6	2526.6	2476.8	2377.1	2175.5	2109.1	1971.5	1869.4	1843.3	1836.2	1843.3
12.5°	2547.9	2512.4	2443.6	2277.5	1995.2	1950.1	1869.4	1810.2	1805.4	1817.3	1881.3
15°	2519.5	2486.2	2405.7	2144.7	1895.6	1862.3	1805.4	1784.1	1810.2	1893.2	2085.3
17.5°	2491.0	2453.0	2353.4	2014.2	1819.6	1795.9	1755.6	1798.3	1945.4	2056.8	2120.9
20°	2453.0	2408.0	2294.1	1919.2	1765.1	1743.7	1724.7	1916.9	2028.4	2068.7	2104.3
22.5°	2408.0	2360.5	2213.5	1852.9	1708.1	1691.5	1703.4	1983.4	2028.4	2056.8	2087.7
25°	2348.6	2308.3	2118.5	1800.6	1663.0	1644.1	1689.1	1976.2	2002.3	2009.4	2071.1
27.5°	2294.1	2241.9	2018.9	1753.2	1608.4	1601.3	1701.0	1945.4	1964.4	1971.5	2037.8
30°	2227.7	2149.4	1907.4	1703.4	1551.5	1549.2	1703.4	1907.4	1902.7	1921.7	1988.0
32.5°	2158.9	2011.8	1781.6	1641.7	1497.0	1494.6	1686.8	1850.4	1845.8	1871.8	1921.7
35°	2094.9	1905.0	1610.9	1570.5	1428.1	1430.6	1646.5	1784.1	1786.4	1810.2	1841.0
37.5°	2028.4	1812.5	1423.5	1492.3	1361.8	1361.8	1591.9	1722.4	1717.6	1724.7	1767.4
40°	1950.1	1667.8	1257.4	1390.2	1300.1	1293.0	1525.4	1655.9	1639.3	1637.0	1696.3
42.5°	1867.1	1508.8	1134.0	1255.0	1228.9	1219.4	1444.8	1575.3	1544.4	1551.5	1627.4
45°	1776.9	1466.2	1039.1	1060.4	1155.4	1148.2	1357.0	1482.7	1461.4	1480.4	1558.6
47.5°	1686.8	1380.7	1008.3	880.1	1077.1	1074.7	1259.7	1392.6	1380.7	1399.7	1482.7
50°	1563.4	1285.9	1005.9	754.4	989.3	998.7	1143.5	1304.8	1304.8	1321.4	1409.2
52.5°	1404.5	1169.6	913.4	683.3	887.3	915.7	1041.4	1228.9	1233.6	1250.3	1328.5
55°	1259.7	1048.6	846.9	628.7	766.3	828.0	941.8	1150.6	1160.1	1176.7	1247.8
57.5°	1126.9	873.0	832.7	564.7	654.8	714.1	854.0	1074.7	1079.4	1093.7	1162.5
60°	984.5	631.0	763.9	495.9	557.6	602.6	773.4	984.5	1001.2	1010.6	1070.0
62.5°	823.2	457.9	692.7	448.4	510.1	519.5	707.0	899.1	920.5	927.6	963.2
65°	586.0	384.4	588.4	408.1	460.2	462.6	635.8	811.3	830.3	842.2	868.3
67.5°	396.2	313.1	448.4	370.1	422.3	424.6	567.0	709.3	735.4	745.0	761.5
70°	275.2	208.8	332.1	329.8	379.6	384.4	493.4	616.8	640.6	647.7	657.2
72.5°	201.6	168.4	275.2	296.6	334.5	339.3	417.5	512.4	536.1	543.3	548.0
75°	154.2	178.0	223.0	258.6	284.7	287.0	341.6	417.5	434.2	438.9	441.3
77.5°	123.4	166.1	163.7	208.8	232.5	227.8	268.1	322.7	336.9	336.9	336.9
80°	92.5	130.5	123.4	149.5	170.8	166.1	192.2	230.1	234.9	239.6	237.2
82.5°	68.8	83.0	83.0	94.9	113.8	109.2	128.1	149.5	149.5	149.5	154.2
85°	42.7	47.5	37.9	49.8	64.0	61.7	71.1	80.7	83.0	83.0	78.3
87.5°	26.1	21.3	11.9	19.0	28.5	28.5	33.2	35.6	33.2	33.2	33.2
90°	11.3	7.8	4.3	7.8	11.3	12.2	19.1	28.3	33.0	29.3	22.1
92.5°	76.5	46.9	17.4	46.9	76.5	83.8	117.9	163.3	186.0	163.0	117.0
95°	149.8	95.8	41.7	95.8	149.8	163.4	290.1	459.2	543.7	485.2	368.1
97.5°	167.5	119.8	72.2	119.8	167.5	179.5	390.9	672.7	813.7	776.6	702.7
100°	182.2	138.9	95.6	138.9	182.2	193.0	427.5	740.3	896.7	899.4	904.8
102.5°	196.4	156.0	115.6	156.0	196.4	206.5	444.4	761.5	920.1	967.2	1061.5
105°	218.0	183.8	149.6	183.8	218.0	226.5	456.8	763.9	917.5	1023.1	1234.5
107.5°	248.1	216.2	184.3	216.2	248.1	256.0	459.1	729.9	865.4	1012.8	1307.6
110°	265.3	236.6	207.8	236.6	265.3	272.5	455.6	699.8	821.9	986.7	1316.3



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	285.6	258.2	230.8	258.2	285.6	292.5	455.8	673.5	782.3	951.0	1288.2
115°	316.1	290.9	265.5	290.9	316.1	322.5	460.0	643.3	735.0	897.4	1222.3
117.5°	345.8	322.8	299.9	322.8	345.8	351.6	468.6	624.4	702.3	849.0	1142.2
120°	363.1	341.5	319.9	341.5	363.1	368.6	475.5	618.0	689.3	823.3	1091.2
122.5°	383.1	361.3	339.5	361.3	383.1	388.6	485.5	614.8	679.3	799.9	1041.2
125°	409.2	389.3	369.4	389.3	409.2	414.2	498.9	612.0	668.5	770.9	975.9
127.5°	433.9	413.9	393.8	413.9	433.9	438.9	512.4	610.4	659.3	747.3	923.3
130°	450.1	428.5	406.8	428.5	450.1	455.5	522.3	611.4	655.9	734.2	890.9
132.5°	463.5	441.9	420.2	441.9	463.5	468.9	530.3	612.0	652.8	722.9	863.2
135°	479.7	460.0	440.2	460.0	479.7	484.6	539.0	611.4	647.6	706.3	823.8
137.5°	499.7	480.2	460.7	480.2	499.7	504.6	551.9	615.1	646.7	696.4	795.6
140°	513.6	495.6	477.6	495.6	513.6	518.1	560.0	615.8	643.6	686.5	772.3
142.5°	524.0	507.4	490.7	507.4	524.0	528.1	566.6	617.9	643.6	681.3	756.6
145°	539.6	525.2	510.7	525.2	539.6	543.3	575.3	618.0	639.3	670.2	731.8
147.5°	558.9	544.7	530.6	544.7	558.9	562.4	588.0	622.2	639.3	663.5	712.1
150°	569.2	556.4	543.7	556.4	569.2	572.4	594.8	624.5	639.3	659.8	700.7
152.5°	576.5	566.9	557.2	566.9	576.5	579.0	599.1	625.9	639.3	656.8	691.8
155°	591.5	584.3	577.2	584.3	591.5	593.3	608.6	629.1	639.3	653.3	681.1
157.5°	605.9	599.0	591.9	599.0	605.9	607.7	618.2	632.3	639.3	650.2	671.8
160°	612.8	607.4	602.0	607.4	612.8	614.1	622.5	633.7	639.3	648.6	667.1
162.5°	620.1	616.1	612.0	616.1	620.1	621.1	627.2	635.3	639.3	647.2	662.8
165°	630.2	626.5	622.8	626.5	630.2	631.1	633.8	637.5	639.3	644.9	656.2
167.5°	636.3	634.6	632.8	634.6	636.3	636.7	639.1	642.1	643.6	647.3	654.7
170°	642.8	641.1	639.3	641.1	642.8	643.3	643.4	643.5	643.6	647.3	654.7
172.5°	643.5	643.2	642.8	643.2	643.5	643.6	643.6	643.6	643.6	646.5	652.3
175°	647.6	647.6	647.6	647.6	647.6	647.6	646.3	644.5	643.6	645.5	649.2
177.5°	647.6	647.6	647.6	647.6	647.6	647.6	646.5	645.2	644.6	646.1	649.0
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



TEST NUMBER: P934941
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6
2.5°	2419.9	2412.8	2422.2	2396.1	2422.2	2412.8	2419.9	2436.4	2422.2	2431.7	2441.2
5°	2123.3	2111.4	2073.5	2042.6	2073.5	2111.4	2123.3	2173.1	2196.8	2239.6	2296.5
7.5°	1897.9	1888.4	1878.9	1860.0	1878.9	1888.4	1897.9	1912.1	1935.9	1973.8	2016.5
10°	1848.1	1850.4	1864.7	1862.3	1864.7	1850.4	1848.1	1843.3	1836.2	1843.3	1869.4
12.5°	1976.2	1997.6	2075.9	2071.1	2075.9	1997.6	1976.2	1881.3	1817.3	1805.4	1810.2
15°	2123.3	2130.4	2147.0	2149.4	2147.0	2130.4	2123.3	2085.3	1893.2	1810.2	1784.1
17.5°	2137.5	2139.9	2151.8	2151.8	2151.8	2139.9	2137.5	2120.9	2056.8	1945.4	1798.3
20°	2125.7	2130.4	2154.1	2158.9	2154.1	2130.4	2125.7	2104.3	2068.7	2028.4	1916.9
22.5°	2120.9	2130.4	2149.4	2147.0	2149.4	2130.4	2120.9	2087.7	2056.8	2028.4	1983.4
25°	2097.2	2097.2	2099.5	2102.0	2099.5	2097.2	2097.2	2071.1	2009.4	2002.3	1976.2
27.5°	2047.4	2052.1	2066.4	2064.0	2066.4	2052.1	2047.4	2037.8	1971.5	1964.4	1945.4
30°	2002.3	1997.6	1985.7	1976.2	1985.7	1997.6	2002.3	1988.0	1921.7	1902.7	1907.4
32.5°	1926.4	1914.6	1902.7	1895.6	1902.7	1914.6	1926.4	1921.7	1871.8	1845.8	1850.4
35°	1836.2	1838.6	1836.2	1829.1	1836.2	1838.6	1836.2	1841.0	1810.2	1786.4	1784.1
37.5°	1772.2	1776.9	1774.5	1765.1	1774.5	1776.9	1772.2	1767.4	1724.7	1717.6	1722.4
40°	1705.7	1708.1	1705.7	1698.6	1705.7	1708.1	1705.7	1696.3	1637.0	1639.3	1655.9
42.5°	1641.7	1639.3	1632.2	1627.4	1632.2	1639.3	1641.7	1627.4	1551.5	1544.4	1575.3
45°	1568.2	1570.5	1556.3	1549.2	1556.3	1570.5	1568.2	1558.6	1480.4	1461.4	1482.7
47.5°	1494.6	1494.6	1482.7	1475.6	1482.7	1494.6	1494.6	1482.7	1399.7	1380.7	1392.6
50°	1416.4	1413.9	1397.4	1395.0	1397.4	1413.9	1416.4	1409.2	1321.4	1304.8	1304.8
52.5°	1326.2	1326.2	1328.5	1333.3	1328.5	1326.2	1326.2	1328.5	1250.3	1233.6	1228.9
55°	1247.8	1250.3	1266.9	1271.6	1266.9	1250.3	1247.8	1247.8	1176.7	1160.1	1150.6
57.5°	1167.3	1167.3	1179.0	1179.0	1179.0	1167.3	1167.3	1162.5	1093.7	1079.4	1074.7
60°	1074.7	1079.4	1088.9	1086.6	1088.9	1079.4	1074.7	1070.0	1010.6	1001.2	984.5
62.5°	977.4	982.2	984.5	979.8	984.5	982.2	977.4	963.2	927.6	920.5	899.1
65°	875.4	880.1	882.5	877.8	882.5	880.1	875.4	868.3	842.2	830.3	811.3
67.5°	771.0	768.6	766.3	775.8	766.3	768.6	771.0	761.5	745.0	735.4	709.3
70°	664.3	664.3	661.9	666.6	661.9	664.3	664.3	657.2	647.7	640.6	616.8
72.5°	550.4	548.0	557.6	550.4	557.6	548.0	550.4	548.0	543.3	536.1	512.4
75°	438.9	443.6	438.9	446.0	438.9	443.6	438.9	441.3	438.9	434.2	417.5
77.5°	334.5	339.3	334.5	334.5	334.5	339.3	334.5	336.9	336.9	336.9	322.7
80°	237.2	234.9	234.9	232.5	234.9	234.9	237.2	237.2	239.6	234.9	230.1
82.5°	151.8	149.5	149.5	154.2	149.5	149.5	151.8	154.2	149.5	149.5	149.5
85°	83.0	85.4	80.7	80.7	80.7	85.4	83.0	78.3	83.0	83.0	80.7
87.5°	30.8	28.5	28.5	28.5	28.5	28.5	30.8	33.2	33.2	33.2	35.6
90°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	22.1	29.3	33.0	28.3
92.5°	82.5	79.3	66.1	53.0	66.1	79.3	82.5	117.0	163.0	186.0	163.3
95°	280.3	270.4	230.6	190.8	230.6	270.4	280.3	368.1	485.2	543.7	459.2
97.5°	647.2	628.2	552.5	476.8	552.5	628.2	647.2	702.7	776.6	813.7	672.7
100°	908.8	886.3	796.0	705.8	796.0	886.3	908.8	904.8	899.4	896.7	740.3
102.5°	1132.2	1112.9	1035.7	958.4	1035.7	1112.9	1132.2	1061.5	967.2	920.1	761.5
105°	1393.0	1382.6	1341.0	1299.5	1341.0	1382.6	1393.0	1234.5	1023.1	917.5	763.9
107.5°	1528.6	1531.1	1541.1	1551.1	1541.1	1531.1	1528.6	1307.6	1012.8	865.4	729.9
110°	1563.4	1574.2	1617.4	1660.7	1617.4	1574.2	1563.4	1316.3	986.7	821.9	699.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1541.1	1557.8	1624.2	1690.7	1624.2	1557.8	1541.1	1288.2	951.0	782.3	673.5
115°	1466.0	1489.0	1581.1	1673.3	1581.1	1489.0	1466.0	1222.3	897.4	735.0	643.3
117.5°	1362.1	1387.7	1489.8	1592.0	1489.8	1387.7	1362.1	1142.2	849.0	702.3	624.4
120°	1292.1	1317.0	1416.3	1515.5	1416.3	1317.0	1292.1	1091.2	823.3	689.3	618.0
122.5°	1222.1	1246.6	1344.6	1442.5	1344.6	1246.6	1222.1	1041.2	799.9	679.3	614.8
125°	1129.6	1152.1	1242.4	1332.6	1242.4	1152.1	1129.6	975.9	770.9	668.5	612.0
127.5°	1055.3	1074.4	1150.4	1226.5	1150.4	1074.4	1055.3	923.3	747.3	659.3	610.4
130°	1008.4	1025.9	1096.2	1166.5	1096.2	1025.9	1008.4	890.9	734.2	655.9	611.4
132.5°	968.4	984.1	1047.1	1110.1	1047.1	984.1	968.4	863.2	722.9	652.8	612.0
135°	911.8	925.4	979.7	1034.0	979.7	925.4	911.8	823.8	706.3	647.6	611.4
137.5°	870.1	881.2	925.6	970.1	925.6	881.2	870.1	795.6	696.4	646.7	615.1
140°	836.7	847.0	888.6	930.1	888.6	847.0	836.7	772.3	686.5	643.6	615.8
142.5°	813.2	822.2	857.9	893.6	857.9	822.2	813.2	756.6	681.3	643.6	617.9
145°	778.0	784.7	811.8	838.8	811.8	784.7	778.0	731.8	670.2	639.3	618.0
147.5°	748.4	754.0	776.4	798.8	776.4	754.0	748.4	712.1	663.5	639.3	622.2
150°	731.5	736.1	754.2	772.3	754.2	736.1	731.5	700.7	659.8	639.3	624.5
152.5°	718.0	721.5	735.1	748.9	735.1	721.5	718.0	691.8	656.8	639.3	625.9
155°	702.0	704.2	713.3	722.3	713.3	704.2	702.0	681.1	653.3	639.3	629.1
157.5°	688.0	689.6	696.0	702.3	696.0	689.6	688.0	671.8	650.2	639.3	632.3
160°	681.0	682.0	685.6	689.3	685.6	682.0	681.0	667.1	648.6	639.3	633.7
162.5°	674.6	675.4	678.9	682.3	678.9	675.4	674.6	662.8	647.2	639.3	635.3
165°	664.6	665.5	669.2	672.8	669.2	665.5	664.6	656.2	644.9	639.3	637.5
167.5°	660.2	660.6	662.1	663.6	662.1	660.6	660.2	654.7	647.3	643.6	642.1
170°	660.2	660.2	660.2	660.2	660.2	660.2	660.2	654.7	647.3	643.6	643.5
172.5°	656.7	656.4	655.0	653.6	655.0	656.4	656.7	652.3	646.5	643.6	643.6
175°	652.0	652.0	652.0	652.0	652.0	652.0	652.0	649.2	645.5	643.6	644.5
177.5°	651.1	650.7	649.2	647.6	649.2	650.7	651.1	649.0	646.1	644.6	645.2
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2507.6	2507.6	2507.6	2507.6	2507.6
2.5°	2476.8	2488.7	2495.8	2505.3	2528.9
5°	2381.9	2427.0	2441.2	2476.8	2519.5
7.5°	2173.1	2310.7	2348.6	2434.1	2500.5
10°	1971.5	2109.1	2175.5	2377.1	2476.8
12.5°	1869.4	1950.1	1995.2	2277.5	2443.6
15°	1805.4	1862.3	1895.6	2144.7	2405.7
17.5°	1755.6	1795.9	1819.6	2014.2	2353.4
20°	1724.7	1743.7	1765.1	1919.2	2294.1
22.5°	1703.4	1691.5	1708.1	1852.9	2213.5
25°	1689.1	1644.1	1663.0	1800.6	2118.5
27.5°	1701.0	1601.3	1608.4	1753.2	2018.9
30°	1703.4	1549.2	1551.5	1703.4	1907.4
32.5°	1686.8	1494.6	1497.0	1641.7	1781.6
35°	1646.5	1430.6	1428.1	1570.5	1610.9
37.5°	1591.9	1361.8	1361.8	1492.3	1423.5
40°	1525.4	1293.0	1300.1	1390.2	1257.4
42.5°	1444.8	1219.4	1228.9	1255.0	1134.0
45°	1357.0	1148.2	1155.4	1060.4	1039.1
47.5°	1259.7	1074.7	1077.1	880.1	1008.3
50°	1143.5	998.7	989.3	754.4	1005.9
52.5°	1041.4	915.7	887.3	683.3	913.4
55°	941.8	828.0	766.3	628.7	846.9
57.5°	854.0	714.1	654.8	564.7	832.7
60°	773.4	602.6	557.6	495.9	763.9
62.5°	707.0	519.5	510.1	448.4	692.7
65°	635.8	462.6	460.2	408.1	588.4
67.5°	567.0	424.6	422.3	370.1	448.4
70°	493.4	384.4	379.6	329.8	332.1
72.5°	417.5	339.3	334.5	296.6	275.2
75°	341.6	287.0	284.7	258.6	223.0
77.5°	268.1	227.8	232.5	208.8	163.7
80°	192.2	166.1	170.8	149.5	123.4
82.5°	128.1	109.2	113.8	94.9	83.0
85°	71.1	61.7	64.0	49.8	37.9
87.5°	33.2	28.5	28.5	19.0	11.9
90°	19.1	12.2	11.3	7.8	4.3
92.5°	117.9	83.8	76.5	46.9	17.4
95°	290.1	163.4	149.8	95.8	41.7
97.5°	390.9	179.5	167.5	119.8	72.2
100°	427.5	193.0	182.2	138.9	95.6
102.5°	444.4	206.5	196.4	156.0	115.6
105°	456.8	226.5	218.0	183.8	149.6
107.5°	459.1	256.0	248.1	216.2	184.3
110°	455.6	272.5	265.3	236.6	207.8



TEST NUMBER: P934941

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	455.8	292.5	285.6	258.2	230.8
115°	460.0	322.5	316.1	290.9	265.5
117.5°	468.6	351.6	345.8	322.8	299.9
120°	475.5	368.6	363.1	341.5	319.9
122.5°	485.5	388.6	383.1	361.3	339.5
125°	498.9	414.2	409.2	389.3	369.4
127.5°	512.4	438.9	433.9	413.9	393.8
130°	522.3	455.5	450.1	428.5	406.8
132.5°	530.3	468.9	463.5	441.9	420.2
135°	539.0	484.6	479.7	460.0	440.2
137.5°	551.9	504.6	499.7	480.2	460.7
140°	560.0	518.1	513.6	495.6	477.6
142.5°	566.6	528.1	524.0	507.4	490.7
145°	575.3	543.3	539.6	525.2	510.7
147.5°	588.0	562.4	558.9	544.7	530.6
150°	594.8	572.4	569.2	556.4	543.7
152.5°	599.1	579.0	576.5	566.9	557.2
155°	608.6	593.3	591.5	584.3	577.2
157.5°	618.2	607.7	605.9	599.0	591.9
160°	622.5	614.1	612.8	607.4	602.0
162.5°	627.2	621.1	620.1	616.1	612.0
165°	633.8	631.1	630.2	626.5	622.8
167.5°	639.1	636.7	636.3	634.6	632.8
170°	643.4	643.3	642.8	641.1	639.3
172.5°	643.6	643.6	643.5	643.2	642.8
175°	646.3	647.6	647.6	647.6	647.6
177.5°	646.5	647.6	647.6	647.6	647.6
180°	647.6	647.6	647.6	647.6	647.6



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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	15.27	16.23	16.13	17.11	18.22	18.09	19.06	18.95	19.94	21.05
	3H	15.75	16.62	16.62	17.51	18.64	19.44	20.31	20.31	21.20	22.34
	4H	15.95	16.77	16.84	17.66	18.81	19.89	20.71	20.78	21.61	22.75
	6H	16.07	16.83	16.97	17.73	18.89	20.18	20.94	21.08	21.84	23.00
	8H	16.08	16.80	16.98	17.72	18.87	20.26	20.98	21.16	21.90	23.05
	12H	16.05	16.74	16.96	17.65	18.83	20.30	20.98	21.21	21.90	23.08
4H	2H	16.31	17.13	17.20	18.03	19.17	18.51	19.33	19.41	20.23	21.37
	3H	17.35	18.03	18.25	18.96	20.12	20.03	20.71	20.93	21.64	22.80
	4H	17.63	18.25	18.54	19.17	20.36	20.56	21.18	21.47	22.10	23.29
	6H	17.76	18.30	18.69	19.24	20.43	20.93	21.47	21.86	22.41	23.60
	8H	17.77	18.27	18.70	19.21	20.41	21.04	21.54	21.97	22.48	23.68
	12H	17.74	18.19	18.69	19.15	20.36	21.10	21.55	22.05	22.51	23.72
8H	4H	18.09	18.59	19.02	19.53	20.73	20.69	21.19	21.62	22.14	23.34
	6H	18.36	18.77	19.31	19.75	20.95	21.13	21.55	22.09	22.53	23.73
	8H	18.40	18.77	19.37	19.74	20.96	21.28	21.65	22.25	22.62	23.84
	12H	18.39	18.71	19.36	19.68	20.94	21.39	21.71	22.36	22.68	23.94
12H	4H	18.10	18.55	19.05	19.51	20.72	20.66	21.11	21.61	22.07	23.28
	6H	18.42	18.78	19.38	19.76	20.98	21.13	21.50	22.10	22.47	23.69
	8H	18.49	18.81	19.46	19.78	21.04	21.30	21.62	22.27	22.58	23.85