

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: P934141

Luminaire Tested: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

**Test Information**

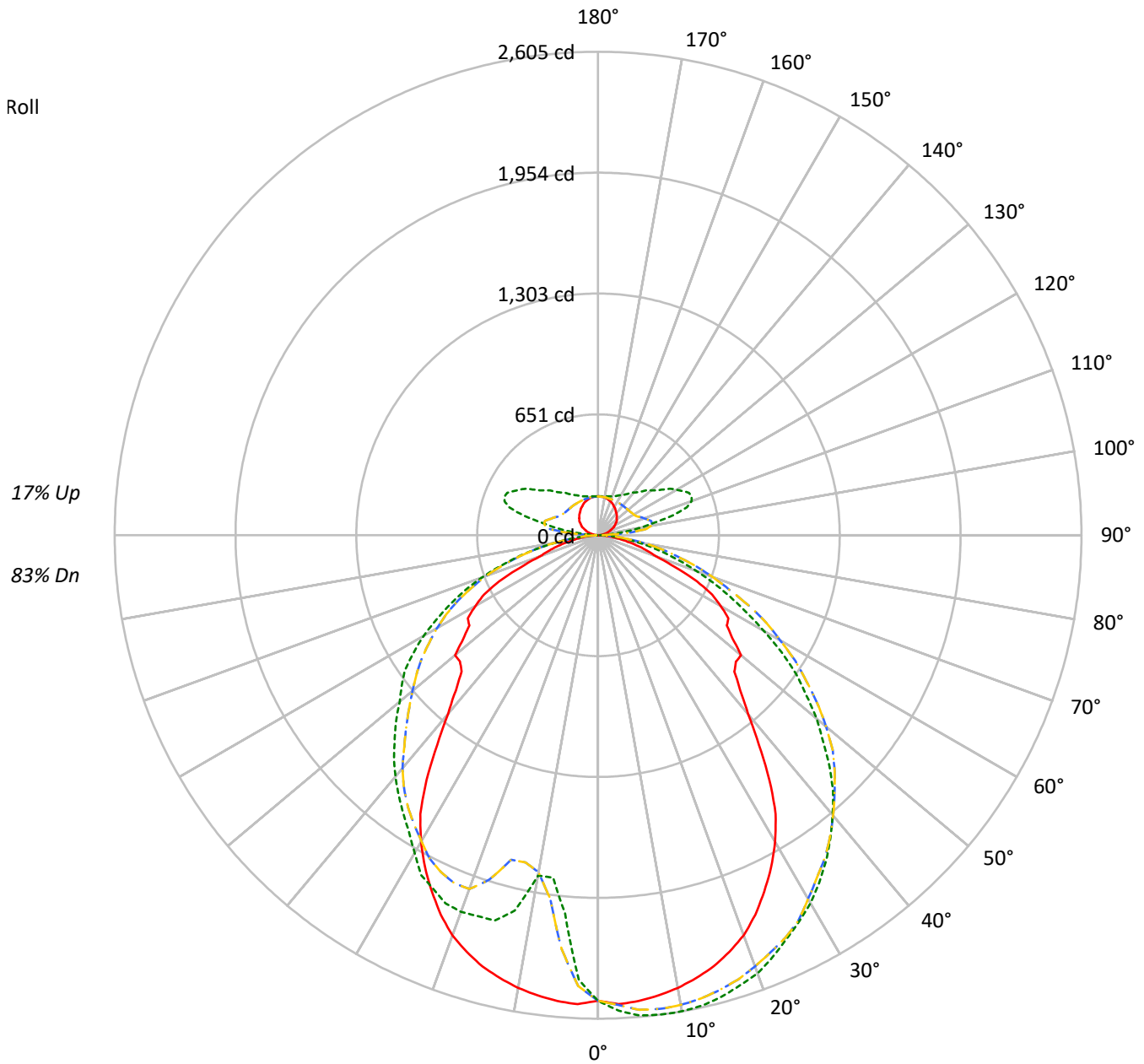
Test Method: LM-79-2019  
Report Number: P934141  
REPORT IS A COMBINATION OF REPORTS P933687 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7859.0 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	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	2.9
10°-20°	642.7	8.2
20°-30°	993.5	12.6
30°-40°	1186.0	15.1
40°-50°	1193.0	15.2
50°-60°	1038.0	13.2
60°-70°	736.0	9.4
70°-80°	389.4	5.0
80°-90°	97.8	1.2
90°-100°	102.0	1.3
100°-110°	268.1	3.4
110°-120°	278.0	3.5
120°-130°	223.0	2.8
130°-140°	175.0	2.2
140°-150°	134.3	1.7
150°-160°	96.7	1.2
160°-170°	59.2	0.8
170°-180°	20.0	0.3
0°-30°	1862.5	23.7
0°-40°	3048.5	38.8
0°-60°	5279.5	67.2
0°-90°	6502.6	82.7
90°-120°	648.1	8.2
90°-150°	1180.5	15.0
90°-180°	1356.0	17.3
0°-180°	7859.0	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°	1	5	1	5	1	3
95°	14	62	14	62	14	15
105°	48	420	48	420	48	51
115°	86	541	86	541	86	85
125°	119	430	119	430	119	106
135°	142	334	142	334	142	110
145°	165	271	165	271	165	103
155°	186	233	186	233	186	86
165°	201	217	201	217	201	57
175°	209	211	209	211	209	20
180°	209	209	209	209	209	



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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°	1.4	2.5	3.6	3.9	6.2	9.2	10.7	9.4	7.1	5.3	5.3
92.5°	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.8	26.6	25.6
95°	13.5	30.9	48.4	52.8	93.8	148.3	175.6	156.8	118.9	90.6	87.4
97.5°	23.3	38.7	54.1	58.0	126.3	217.3	262.8	250.9	227.0	209.1	203.0
100°	30.9	44.9	58.9	62.3	138.1	239.2	289.7	290.5	292.3	293.6	286.3
102.5°	37.4	50.5	63.5	66.7	143.6	246.0	297.2	312.5	342.9	365.8	359.6
105°	48.3	59.4	70.4	73.2	147.6	246.8	296.4	330.5	398.8	450.1	446.7
107.5°	59.5	69.8	80.1	82.7	148.3	235.8	279.6	327.2	422.5	493.9	494.7
110°	67.1	76.5	85.7	88.0	147.2	226.1	265.5	318.8	425.3	505.1	508.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	74.6	83.5	92.3	94.5	147.2	217.6	252.7	307.2	416.2	497.9	503.2
115°	85.8	94.0	102.2	104.2	148.6	207.8	237.4	289.9	394.9	473.6	481.1
117.5°	96.9	104.3	111.7	113.6	151.3	201.7	226.9	274.3	369.0	440.1	448.3
120°	103.4	110.4	117.3	119.1	153.7	199.7	222.7	266.0	352.6	417.5	425.6
122.5°	109.6	116.7	123.8	125.5	156.8	198.6	219.5	258.4	336.4	394.9	402.9
125°	119.4	125.8	132.3	133.8	161.2	197.8	216.0	249.1	315.4	365.0	372.3
127.5°	127.2	133.7	140.2	141.8	165.5	197.2	213.0	241.4	298.4	341.0	347.1
130°	131.4	138.4	145.3	147.1	168.7	197.5	211.9	237.2	287.8	325.7	331.4
132.5°	135.8	142.8	149.7	151.5	171.3	197.8	211.0	233.6	278.9	312.8	317.9
135°	142.3	148.6	155.0	156.6	174.1	197.6	209.3	228.3	266.2	294.6	299.0
137.5°	148.9	155.2	161.4	163.0	178.3	198.8	209.0	225.1	257.1	281.2	284.7
140°	154.3	160.1	165.9	167.4	181.0	199.0	208.0	221.8	249.6	270.3	273.7
142.5°	158.5	163.9	169.3	170.6	183.0	199.7	208.0	220.1	244.5	262.7	265.6
145°	165.0	169.6	174.3	175.5	185.9	199.7	206.6	216.5	236.4	251.3	253.5
147.5°	171.4	176.0	180.6	181.7	190.0	201.1	206.6	214.4	230.0	241.8	243.6
150°	175.6	179.7	184.0	185.0	192.2	201.8	206.6	213.2	226.4	236.3	237.8
152.5°	180.0	183.1	186.3	187.0	193.6	202.3	206.6	212.2	223.5	232.0	233.1
155°	186.5	188.8	191.1	191.7	196.7	203.3	206.6	211.1	220.0	226.8	227.5
157.5°	191.2	193.5	195.7	196.3	199.7	204.3	206.6	210.0	217.0	222.3	222.8
160°	194.5	196.3	198.0	198.4	201.1	204.8	206.6	209.6	215.5	220.0	220.3
162.5°	197.7	199.0	200.3	200.7	202.6	205.3	206.6	209.1	214.1	218.0	218.3
165°	201.2	202.4	203.6	203.9	204.8	206.0	206.6	208.3	212.0	214.7	215.0
167.5°	204.4	205.0	205.5	205.7	206.5	207.5	208.0	209.2	211.5	213.3	213.4
170°	206.6	207.1	207.7	207.8	207.9	208.0	208.0	209.2	211.5	213.3	213.3
172.5°	207.7	207.8	208.0	208.0	208.0	208.0	208.0	208.9	210.8	212.2	212.1
175°	209.3	209.3	209.3	209.3	208.8	208.3	208.0	208.5	209.7	210.7	210.7
177.5°	209.3	209.3	209.3	209.3	208.9	208.4	208.3	208.7	209.7	210.4	210.3
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



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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°	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.7	9.2	6.2	3.9
92.5°	21.3	17.1	21.3	25.6	26.6	37.8	52.6	60.1	52.8	38.1	27.1
95°	74.5	61.7	74.5	87.4	90.6	118.9	156.8	175.6	148.3	93.8	52.8
97.5°	178.5	154.0	178.5	203.0	209.1	227.0	250.9	262.8	217.3	126.3	58.0
100°	257.2	228.1	257.2	286.3	293.6	292.3	290.5	289.7	239.2	138.1	62.3
102.5°	334.6	309.7	334.6	359.6	365.8	342.9	312.5	297.2	246.0	143.6	66.7
105°	433.3	419.9	433.3	446.7	450.1	398.8	330.5	296.4	246.8	147.6	73.2
107.5°	497.9	501.2	497.9	494.7	493.9	422.5	327.2	279.6	235.8	148.3	82.7
110°	522.6	536.6	522.6	508.6	505.1	425.3	318.8	265.5	226.1	147.2	88.0





TEST NUMBER: P934141

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	524.7	546.2	524.7	503.2	497.9	416.2	307.2	252.7	217.6	147.2	94.5
115°	510.8	540.6	510.8	481.1	473.6	394.9	289.9	237.4	207.8	148.6	104.2
117.5°	481.4	514.4	481.4	448.3	440.1	369.0	274.3	226.9	201.7	151.3	113.6
120°	457.6	489.7	457.6	425.6	417.5	352.6	266.0	222.7	199.7	153.7	119.1
122.5°	434.5	466.0	434.5	402.9	394.9	336.4	258.4	219.5	198.6	156.8	125.5
125°	401.4	430.5	401.4	372.3	365.0	315.4	249.1	216.0	197.8	161.2	133.8
127.5°	371.7	396.3	371.7	347.1	341.0	298.4	241.4	213.0	197.2	165.5	141.8
130°	354.2	376.9	354.2	331.4	325.7	287.8	237.2	211.9	197.5	168.7	147.1
132.5°	338.3	358.6	338.3	317.9	312.8	278.9	233.6	211.0	197.8	171.3	151.5
135°	316.5	334.1	316.5	299.0	294.6	266.2	228.3	209.3	197.6	174.1	156.6
137.5°	299.1	313.4	299.1	284.7	281.2	257.1	225.1	209.0	198.8	178.3	163.0
140°	287.0	300.5	287.0	273.7	270.3	249.6	221.8	208.0	199.0	181.0	167.4
142.5°	277.1	288.7	277.1	265.6	262.7	244.5	220.1	208.0	199.7	183.0	170.6
145°	262.3	271.1	262.3	253.5	251.3	236.4	216.5	206.6	199.7	185.9	175.5
147.5°	250.9	258.1	250.9	243.6	241.8	230.0	214.4	206.6	201.1	190.0	181.7
150°	243.7	249.6	243.7	237.8	236.3	226.4	213.2	206.6	201.8	192.2	185.0
152.5°	237.5	242.0	237.5	233.1	232.0	223.5	212.2	206.6	202.3	193.6	187.0
155°	230.4	233.4	230.4	227.5	226.8	220.0	211.1	206.6	203.3	196.7	191.7
157.5°	224.9	226.9	224.9	222.8	222.3	217.0	210.0	206.6	204.3	199.7	196.3
160°	221.5	222.7	221.5	220.3	220.0	215.5	209.6	206.6	204.8	201.1	198.4
162.5°	219.4	220.5	219.4	218.3	218.0	214.1	209.1	206.6	205.3	202.6	200.7
165°	216.2	217.4	216.2	215.0	214.7	212.0	208.3	206.6	206.0	204.8	203.9
167.5°	214.0	214.4	214.0	213.4	213.3	211.5	209.2	208.0	207.5	206.5	205.7
170°	213.3	213.3	213.3	213.3	213.3	211.5	209.2	208.0	208.0	207.9	207.8
172.5°	211.6	211.2	211.6	212.1	212.2	210.8	208.9	208.0	208.0	208.0	208.0
175°	210.7	210.7	210.7	210.7	210.7	209.7	208.5	208.0	208.3	208.8	209.3
177.5°	209.7	209.3	209.7	210.3	210.4	209.7	208.7	208.3	208.4	208.9	209.3
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



TEST NUMBER: P934141

CATALOG NUMBER: SQ4-FA-025U-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°	3.6	2.5	1.4	2.5	3.6	3.9	6.2	9.2	10.7	9.4	7.1
92.5°	24.7	15.1	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.8
95°	48.4	30.9	13.5	30.9	48.4	52.8	93.8	148.3	175.6	156.8	118.9
97.5°	54.1	38.7	23.3	38.7	54.1	58.0	126.3	217.3	262.8	250.9	227.0
100°	58.9	44.9	30.9	44.9	58.9	62.3	138.1	239.2	289.7	290.5	292.3
102.5°	63.5	50.5	37.4	50.5	63.5	66.7	143.6	246.0	297.2	312.5	342.9
105°	70.4	59.4	48.3	59.4	70.4	73.2	147.6	246.8	296.4	330.5	398.8
107.5°	80.1	69.8	59.5	69.8	80.1	82.7	148.3	235.8	279.6	327.2	422.5
110°	85.7	76.5	67.1	76.5	85.7	88.0	147.2	226.1	265.5	318.8	425.3



TEST NUMBER: P934141

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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	92.3	83.5	74.6	83.5	92.3	94.5	147.2	217.6	252.7	307.2	416.2
115°	102.2	94.0	85.8	94.0	102.2	104.2	148.6	207.8	237.4	289.9	394.9
117.5°	111.7	104.3	96.9	104.3	111.7	113.6	151.3	201.7	226.9	274.3	369.0
120°	117.3	110.4	103.4	110.4	117.3	119.1	153.7	199.7	222.7	266.0	352.6
122.5°	123.8	116.7	109.6	116.7	123.8	125.5	156.8	198.6	219.5	258.4	336.4
125°	132.3	125.8	119.4	125.8	132.3	133.8	161.2	197.8	216.0	249.1	315.4
127.5°	140.2	133.7	127.2	133.7	140.2	141.8	165.5	197.2	213.0	241.4	298.4
130°	145.3	138.4	131.4	138.4	145.3	147.1	168.7	197.5	211.9	237.2	287.8
132.5°	149.7	142.8	135.8	142.8	149.7	151.5	171.3	197.8	211.0	233.6	278.9
135°	155.0	148.6	142.3	148.6	155.0	156.6	174.1	197.6	209.3	228.3	266.2
137.5°	161.4	155.2	148.9	155.2	161.4	163.0	178.3	198.8	209.0	225.1	257.1
140°	165.9	160.1	154.3	160.1	165.9	167.4	181.0	199.0	208.0	221.8	249.6
142.5°	169.3	163.9	158.5	163.9	169.3	170.6	183.0	199.7	208.0	220.1	244.5
145°	174.3	169.6	165.0	169.6	174.3	175.5	185.9	199.7	206.6	216.5	236.4
147.5°	180.6	176.0	171.4	176.0	180.6	181.7	190.0	201.1	206.6	214.4	230.0
150°	184.0	179.7	175.6	179.7	184.0	185.0	192.2	201.8	206.6	213.2	226.4
152.5°	186.3	183.1	180.0	183.1	186.3	187.0	193.6	202.3	206.6	212.2	223.5
155°	191.1	188.8	186.5	188.8	191.1	191.7	196.7	203.3	206.6	211.1	220.0
157.5°	195.7	193.5	191.2	193.5	195.7	196.3	199.7	204.3	206.6	210.0	217.0
160°	198.0	196.3	194.5	196.3	198.0	198.4	201.1	204.8	206.6	209.6	215.5
162.5°	200.3	199.0	197.7	199.0	200.3	200.7	202.6	205.3	206.6	209.1	214.1
165°	203.6	202.4	201.2	202.4	203.6	203.9	204.8	206.0	206.6	208.3	212.0
167.5°	205.5	205.0	204.4	205.0	205.5	205.7	206.5	207.5	208.0	209.2	211.5
170°	207.7	207.1	206.6	207.1	207.7	207.8	207.9	208.0	208.0	209.2	211.5
172.5°	208.0	207.8	207.7	207.8	208.0	208.0	208.0	208.0	208.0	208.9	210.8
175°	209.3	209.3	209.3	209.3	209.3	209.3	208.8	208.3	208.0	208.5	209.7
177.5°	209.3	209.3	209.3	209.3	209.3	209.3	208.9	208.4	208.3	208.7	209.7
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



TEST NUMBER: P934141  
 CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-5000K

**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°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.7	9.2
92.5°	26.6	25.6	21.3	17.1	21.3	25.6	26.6	37.8	52.6	60.1	52.8
95°	90.6	87.4	74.5	61.7	74.5	87.4	90.6	118.9	156.8	175.6	148.3
97.5°	209.1	203.0	178.5	154.0	178.5	203.0	209.1	227.0	250.9	262.8	217.3
100°	293.6	286.3	257.2	228.1	257.2	286.3	293.6	292.3	290.5	289.7	239.2
102.5°	365.8	359.6	334.6	309.7	334.6	359.6	365.8	342.9	312.5	297.2	246.0
105°	450.1	446.7	433.3	419.9	433.3	446.7	450.1	398.8	330.5	296.4	246.8
107.5°	493.9	494.7	497.9	501.2	497.9	494.7	493.9	422.5	327.2	279.6	235.8
110°	505.1	508.6	522.6	536.6	522.6	508.6	505.1	425.3	318.8	265.5	226.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	497.9	503.2	524.7	546.2	524.7	503.2	497.9	416.2	307.2	252.7	217.6
115°	473.6	481.1	510.8	540.6	510.8	481.1	473.6	394.9	289.9	237.4	207.8
117.5°	440.1	448.3	481.4	514.4	481.4	448.3	440.1	369.0	274.3	226.9	201.7
120°	417.5	425.6	457.6	489.7	457.6	425.6	417.5	352.6	266.0	222.7	199.7
122.5°	394.9	402.9	434.5	466.0	434.5	402.9	394.9	336.4	258.4	219.5	198.6
125°	365.0	372.3	401.4	430.5	401.4	372.3	365.0	315.4	249.1	216.0	197.8
127.5°	341.0	347.1	371.7	396.3	371.7	347.1	341.0	298.4	241.4	213.0	197.2
130°	325.7	331.4	354.2	376.9	354.2	331.4	325.7	287.8	237.2	211.9	197.5
132.5°	312.8	317.9	338.3	358.6	338.3	317.9	312.8	278.9	233.6	211.0	197.8
135°	294.6	299.0	316.5	334.1	316.5	299.0	294.6	266.2	228.3	209.3	197.6
137.5°	281.2	284.7	299.1	313.4	299.1	284.7	281.2	257.1	225.1	209.0	198.8
140°	270.3	273.7	287.0	300.5	287.0	273.7	270.3	249.6	221.8	208.0	199.0
142.5°	262.7	265.6	277.1	288.7	277.1	265.6	262.7	244.5	220.1	208.0	199.7
145°	251.3	253.5	262.3	271.1	262.3	253.5	251.3	236.4	216.5	206.6	199.7
147.5°	241.8	243.6	250.9	258.1	250.9	243.6	241.8	230.0	214.4	206.6	201.1
150°	236.3	237.8	243.7	249.6	243.7	237.8	236.3	226.4	213.2	206.6	201.8
152.5°	232.0	233.1	237.5	242.0	237.5	233.1	232.0	223.5	212.2	206.6	202.3
155°	226.8	227.5	230.4	233.4	230.4	227.5	226.8	220.0	211.1	206.6	203.3
157.5°	222.3	222.8	224.9	226.9	224.9	222.8	222.3	217.0	210.0	206.6	204.3
160°	220.0	220.3	221.5	222.7	221.5	220.3	220.0	215.5	209.6	206.6	204.8
162.5°	218.0	218.3	219.4	220.5	219.4	218.3	218.0	214.1	209.1	206.6	205.3
165°	214.7	215.0	216.2	217.4	216.2	215.0	214.7	212.0	208.3	206.6	206.0
167.5°	213.3	213.4	214.0	214.4	214.0	213.4	213.3	211.5	209.2	208.0	207.5
170°	213.3	213.3	213.3	213.3	213.3	213.3	213.3	211.5	209.2	208.0	208.0
172.5°	212.2	212.1	211.6	211.2	211.6	212.1	212.2	210.8	208.9	208.0	208.0
175°	210.7	210.7	210.7	210.7	210.7	210.7	210.7	209.7	208.5	208.0	208.3
177.5°	210.4	210.3	209.7	209.3	209.7	210.3	210.4	209.7	208.7	208.3	208.4
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



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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°	6.2	3.9	3.6	2.5	1.4
92.5°	38.1	27.1	24.7	15.1	5.6
95°	93.8	52.8	48.4	30.9	13.5
97.5°	126.3	58.0	54.1	38.7	23.3
100°	138.1	62.3	58.9	44.9	30.9
102.5°	143.6	66.7	63.5	50.5	37.4
105°	147.6	73.2	70.4	59.4	48.3
107.5°	148.3	82.7	80.1	69.8	59.5
110°	147.2	88.0	85.7	76.5	67.1



TEST NUMBER: P934141

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	147.2	94.5	92.3	83.5	74.6
115°	148.6	104.2	102.2	94.0	85.8
117.5°	151.3	113.6	111.7	104.3	96.9
120°	153.7	119.1	117.3	110.4	103.4
122.5°	156.8	125.5	123.8	116.7	109.6
125°	161.2	133.8	132.3	125.8	119.4
127.5°	165.5	141.8	140.2	133.7	127.2
130°	168.7	147.1	145.3	138.4	131.4
132.5°	171.3	151.5	149.7	142.8	135.8
135°	174.1	156.6	155.0	148.6	142.3
137.5°	178.3	163.0	161.4	155.2	148.9
140°	181.0	167.4	165.9	160.1	154.3
142.5°	183.0	170.6	169.3	163.9	158.5
145°	185.9	175.5	174.3	169.6	165.0
147.5°	190.0	181.7	180.6	176.0	171.4
150°	192.2	185.0	184.0	179.7	175.6
152.5°	193.6	187.0	186.3	183.1	180.0
155°	196.7	191.7	191.1	188.8	186.5
157.5°	199.7	196.3	195.7	193.5	191.2
160°	201.1	198.4	198.0	196.3	194.5
162.5°	202.6	200.7	200.3	199.0	197.7
165°	204.8	203.9	203.6	202.4	201.2
167.5°	206.5	205.7	205.5	205.0	204.4
170°	207.9	207.8	207.7	207.1	206.6
172.5°	208.0	208.0	208.0	207.8	207.7
175°	208.8	209.3	209.3	209.3	209.3
177.5°	208.9	209.3	209.3	209.3	209.3
180°	209.3	209.3	209.3	209.3	209.3



TEST NUMBER: P934141  
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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	16.94	18.20	17.55	18.82	19.53	19.76	21.02	20.38	21.65	22.36
	3H	17.45	18.58	18.07	19.21	19.96	21.14	22.27	21.76	22.90	23.65
	4H	17.65	18.72	18.30	19.37	20.13	21.60	22.66	22.24	23.31	24.07
	6H	17.79	18.78	18.45	19.44	20.21	21.90	22.89	22.56	23.55	24.32
	8H	17.81	18.75	18.48	19.43	20.20	21.99	22.93	22.66	23.61	24.38
	12H	17.79	18.69	18.47	19.36	20.17	22.04	22.93	22.72	23.61	24.41
4H	2H	18.02	19.08	18.67	19.73	20.49	20.22	21.29	20.87	21.93	22.70
	3H	19.08	19.97	19.74	20.66	21.44	21.76	22.65	22.42	23.34	24.12
	4H	19.37	20.18	20.05	20.87	21.68	22.30	23.11	22.98	23.80	24.61
	6H	19.52	20.22	20.22	20.94	21.76	22.69	23.39	23.39	24.11	24.93
	8H	19.54	20.19	20.24	20.90	21.74	22.80	23.46	23.51	24.17	25.00
	12H	19.52	20.11	20.25	20.85	21.69	22.88	23.47	23.61	24.21	25.04
8H	4H	19.86	20.51	20.56	21.22	22.06	22.46	23.11	23.16	23.83	24.66
	6H	20.13	20.68	20.87	21.43	22.27	22.91	23.45	23.65	24.21	25.05
	8H	20.18	20.66	20.93	21.42	22.27	23.07	23.55	23.81	24.31	25.16
	12H	20.18	20.61	20.93	21.36	22.27	23.18	23.61	23.93	24.36	25.27
12H	4H	19.88	20.47	20.61	21.21	22.05	22.44	23.03	23.17	23.77	24.61
	6H	20.20	20.68	20.95	21.44	22.29	22.91	23.40	23.66	24.15	25.01
	8H	20.28	20.71	21.03	21.46	22.37	23.09	23.52	23.84	24.26	25.18