

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: P934162

Luminaire Tested: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

**Test Information**

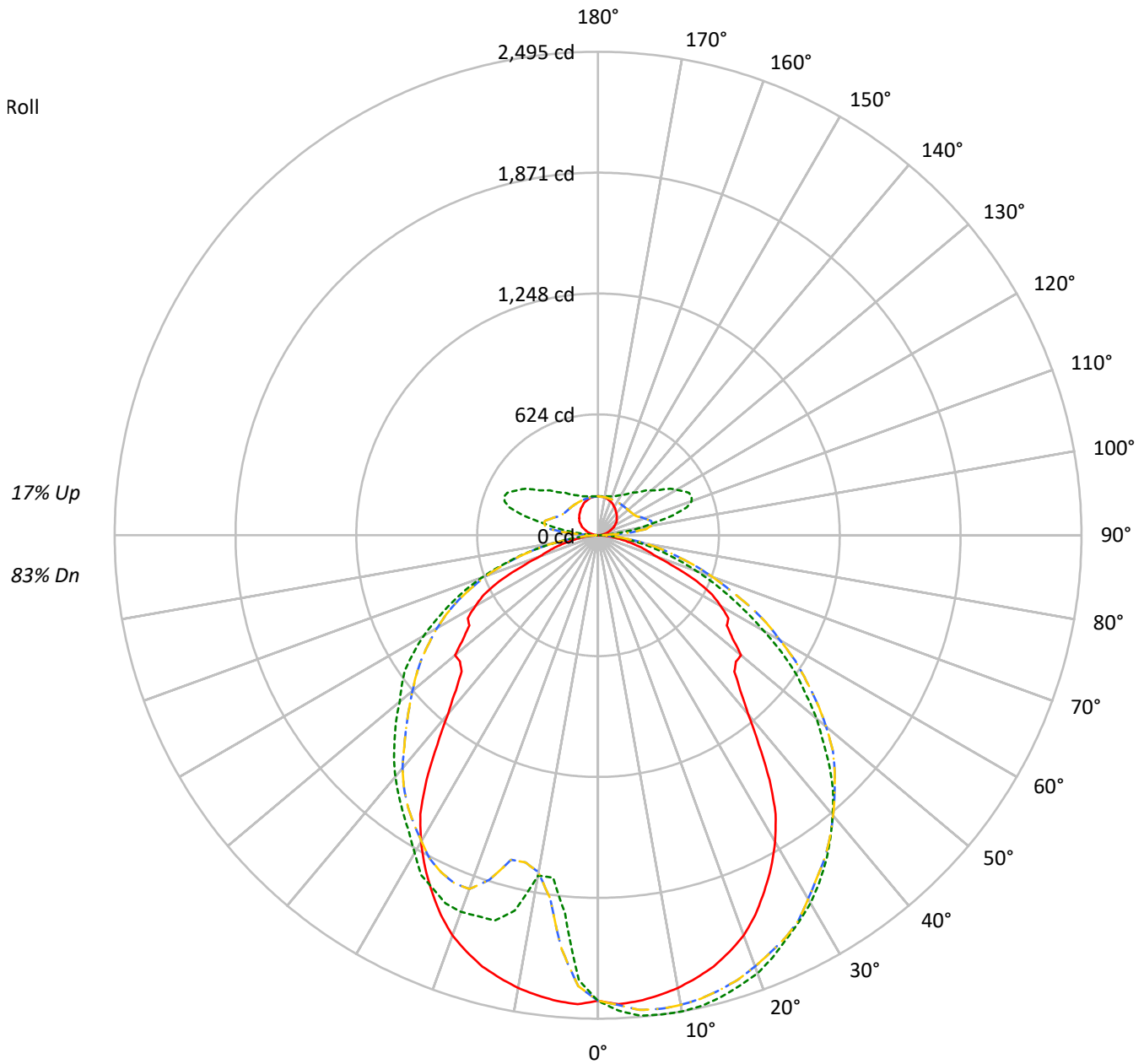
Test Method: LM-79-2019  
Report Number: P934162  
REPORT IS A COMBINATION OF REPORTS P933687 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7527.8 lumens  
Efficiency: N/A  
Efficacy: 101.2 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°	14859	14859	14859	14859
5°	14964	14999	14964	11794
10°	14859	14775	14859	10563
15°	14692	14455	14692	12070
20°	14379	14076	14379	12095
25°	13744	13523	13744	11839
30°	12926	13063	12926	11277
35°	11518	12483	11518	10658
40°	9592	11799	9592	10191
45°	8565	10999	8565	9653
50°	9092	10044	9092	9114
55°	8546	9015	8546	8802
60°	8799	7657	8799	8062
65°	7965	6330	7965	7075
70°	5502	5044	5502	5930
75°	4806	3729	4806	4465
80°	3847	2465	3847	2684
85°	2164	1306	2164	1110

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 13135 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.8	2.9
10°-20°	615.6	8.2
20°-30°	951.6	12.6
30°-40°	1136.0	15.1
40°-50°	1142.7	15.2
50°-60°	994.3	13.2
60°-70°	705.0	9.4
70°-80°	373.0	5.0
80°-90°	93.6	1.2
90°-100°	97.7	1.3
100°-110°	256.8	3.4
110°-120°	266.3	3.5
120°-130°	213.6	2.8
130°-140°	167.6	2.2
140°-150°	128.6	1.7
150°-160°	92.7	1.2
160°-170°	56.7	0.8
170°-180°	19.2	0.3
0°-30°	1784.0	23.7
0°-40°	2920.0	38.8
0°-60°	5057.0	67.2
0°-90°	6228.6	82.7
90°-120°	620.8	8.2
90°-150°	1130.7	15.0
90°-180°	1299.0	17.3
0°-180°	7527.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2402	2402	2402	2402	2402	
5°	2413	2488	2413	1956	2413	229
15°	2304	2466	2304	2059	2304	648
25°	2029	2300	2029	2013	2029	932
35°	1543	2052	1543	1752	1543	955
45°	995	1691	995	1484	995	797
55°	811	1248	811	1218	811	745
65°	564	752	564	841	564	539
75°	214	357	214	427	214	225
85°	36	91	36	77	36	49
90°	1	5	1	5	1	3
95°	13	59	13	59	13	14
105°	46	402	46	402	46	49
115°	82	518	82	518	82	81
125°	114	412	114	412	114	101
135°	136	320	136	320	136	105
145°	158	260	158	260	158	99
155°	179	224	179	224	179	82
165°	193	208	193	208	193	54
175°	200	202	200	202	200	19
180°	200	200	200	200	200	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9
2.5°	2422.4	2422.4	2436.1	2440.5	2440.5	2433.7	2426.9	2433.7	2454.2	2461.0	2458.7
5°	2413.3	2431.5	2456.5	2461.0	2465.6	2463.3	2458.7	2463.3	2486.0	2490.6	2492.8
7.5°	2395.1	2429.2	2461.0	2467.8	2474.6	2467.8	2465.6	2470.1	2492.8	2497.4	2497.4
10°	2372.4	2420.1	2456.5	2461.0	2467.8	2461.0	2461.0	2470.1	2492.8	2497.4	2499.6
12.5°	2340.6	2406.5	2440.5	2445.1	2454.2	2451.9	2449.7	2458.7	2481.4	2486.0	2486.0
15°	2304.3	2381.4	2413.3	2417.9	2433.7	2429.2	2429.2	2438.3	2463.3	2470.1	2467.8
17.5°	2254.2	2349.7	2386.0	2392.8	2404.2	2401.9	2404.2	2413.3	2436.1	2440.5	2442.9
20°	2197.5	2306.5	2349.7	2356.5	2367.8	2367.8	2367.8	2379.2	2401.9	2411.0	2411.0
22.5°	2120.2	2261.0	2306.5	2311.1	2324.7	2324.7	2329.2	2345.1	2365.6	2367.8	2367.8
25°	2029.2	2211.1	2249.7	2263.3	2277.0	2283.8	2290.6	2299.7	2306.5	2304.3	2306.5
27.5°	1933.8	2147.4	2197.5	2206.5	2224.7	2231.5	2240.6	2242.8	2245.2	2252.0	2247.4
30°	1827.0	2058.8	2133.8	2142.8	2172.4	2177.0	2167.9	2172.4	2183.8	2188.3	2192.9
32.5°	1706.6	1927.0	2067.9	2088.3	2115.6	2102.0	2099.7	2106.5	2124.7	2124.7	2129.2
35°	1543.0	1824.7	2006.6	2024.7	2045.2	2029.2	2038.4	2040.6	2052.0	2058.8	2056.5
37.5°	1363.5	1736.1	1942.9	1956.5	1972.5	1952.0	1965.7	1972.5	1981.5	1977.0	1977.0
40°	1204.4	1597.5	1867.9	1877.0	1890.6	1874.7	1888.4	1893.0	1897.4	1893.0	1890.6
42.5°	1086.2	1445.2	1788.4	1799.8	1790.6	1802.0	1806.6	1815.7	1808.8	1799.8	1799.8
45°	995.3	1404.4	1702.0	1715.7	1702.0	1720.3	1727.1	1727.1	1706.6	1702.0	1699.7
47.5°	965.8	1322.6	1615.7	1615.7	1608.9	1631.6	1643.0	1627.1	1606.5	1599.7	1599.7
50°	963.5	1231.7	1497.5	1488.5	1520.2	1547.5	1536.2	1520.2	1504.3	1479.3	1479.3
52.5°	874.9	1120.3	1345.3	1379.3	1429.4	1445.2	1427.0	1411.2	1383.9	1372.5	1363.5
55°	811.2	1004.4	1206.6	1274.8	1327.1	1347.5	1313.4	1297.6	1256.7	1249.9	1245.3
57.5°	797.6	836.2	1079.4	1165.8	1229.4	1227.1	1206.6	1177.1	1143.0	1136.2	1133.9
60°	731.7	604.4	943.0	1045.3	1111.2	1104.4	1086.2	1059.0	1027.1	1022.6	1018.1
62.5°	663.5	438.6	788.5	904.4	997.6	995.3	979.4	938.5	915.8	904.4	895.3
65°	563.6	368.2	561.3	752.2	886.3	890.7	856.7	827.2	802.2	788.5	786.3
67.5°	429.5	299.9	379.5	627.2	779.5	774.9	731.7	718.0	686.3	679.5	665.8
70°	318.1	200.0	263.6	509.0	674.9	663.5	629.5	613.6	584.0	568.1	559.0
72.5°	263.6	161.3	193.1	395.4	568.1	554.5	524.9	506.7	481.8	468.2	459.0
75°	213.6	170.5	147.7	293.1	461.3	452.2	424.9	406.7	386.3	368.2	370.4
77.5°	156.8	159.1	118.2	215.9	365.8	352.2	336.3	313.6	304.5	286.3	286.3
80°	118.2	125.0	88.6	147.7	263.6	263.6	250.0	234.0	218.2	209.1	209.1
82.5°	79.5	79.5	65.9	93.2	179.5	172.7	163.6	159.1	150.0	145.4	145.4
85°	36.3	45.5	40.9	56.9	97.7	102.2	102.2	97.7	95.4	90.9	93.2
87.5°	11.4	20.4	25.0	31.8	50.0	52.3	54.5	54.5	54.5	56.9	56.9
90°	1.3	2.4	3.5	3.8	5.9	8.8	10.2	9.0	6.8	5.1	5.1
92.5°	5.4	14.5	23.6	26.0	36.5	50.6	57.6	50.4	36.2	25.5	24.5
95°	12.9	29.6	46.4	50.6	89.8	142.1	168.2	150.1	113.9	86.8	83.7
97.5°	22.3	37.1	51.8	55.5	121.0	208.2	251.8	240.3	217.5	200.3	194.5
100°	29.6	43.0	56.4	59.7	132.3	229.1	277.5	278.3	280.0	281.2	274.2
102.5°	35.8	48.3	60.8	63.9	137.5	235.6	284.7	299.3	328.5	350.4	344.4
105°	46.3	56.9	67.4	70.1	141.4	236.4	283.9	316.6	382.0	431.1	427.9
107.5°	57.0	66.9	76.7	79.2	142.1	225.9	267.8	313.4	404.7	473.1	473.9
110°	64.3	73.2	82.1	84.3	141.0	216.6	254.4	305.4	407.4	483.8	487.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	71.4	80.0	88.4	90.5	141.0	208.4	242.1	294.3	398.7	476.9	482.0
115°	82.2	90.1	97.9	99.8	142.4	199.0	227.4	277.7	378.3	453.7	460.8
117.5°	92.8	99.9	107.0	108.8	145.0	193.2	217.4	262.8	353.5	421.5	429.4
120°	99.0	105.7	112.4	114.1	147.2	191.3	213.4	254.8	337.7	399.9	407.6
122.5°	105.0	111.8	118.5	120.2	150.2	190.3	210.2	247.6	322.2	378.3	385.9
125°	114.3	120.5	126.7	128.2	154.4	189.4	206.9	238.6	302.1	349.6	356.6
127.5°	121.9	128.0	134.3	135.8	158.6	188.9	204.0	231.3	285.8	326.6	332.5
130°	125.9	132.6	139.2	140.9	161.6	189.2	203.0	227.2	275.7	312.0	317.5
132.5°	130.1	136.8	143.4	145.1	164.1	189.4	202.1	223.7	267.2	299.7	304.5
135°	136.3	142.4	148.4	150.0	166.8	189.3	200.5	218.6	255.0	282.2	286.4
137.5°	142.6	148.6	154.6	156.1	170.8	190.4	200.2	215.6	246.3	269.3	272.7
140°	147.8	153.4	158.9	160.4	173.3	190.6	199.2	212.5	239.0	258.9	262.1
142.5°	151.8	156.9	162.1	163.4	175.3	191.2	199.2	210.8	234.2	251.7	254.4
145°	158.0	162.5	167.0	168.1	178.1	191.2	197.9	207.4	226.4	240.7	242.8
147.5°	164.2	168.6	173.0	174.0	182.0	192.6	197.9	205.4	220.3	231.6	233.3
150°	168.2	172.2	176.2	177.2	184.1	193.3	197.9	204.2	216.8	226.3	227.8
152.5°	172.4	175.4	178.4	179.2	185.4	193.7	197.9	203.2	214.1	222.2	223.3
155°	178.6	180.9	183.1	183.6	188.4	194.7	197.9	202.2	210.8	217.2	217.9
157.5°	183.2	185.3	187.5	188.0	191.3	195.7	197.9	201.2	207.9	212.9	213.4
160°	186.3	188.0	189.6	190.1	192.7	196.2	197.9	200.7	206.5	210.8	211.0
162.5°	189.4	190.6	191.9	192.2	194.1	196.6	197.9	200.3	205.1	208.8	209.1
165°	192.8	193.8	195.0	195.3	196.2	197.3	197.9	199.6	203.1	205.7	205.9
167.5°	195.8	196.3	196.9	197.1	197.8	198.8	199.2	200.4	202.6	204.3	204.4
170°	197.9	198.4	198.9	199.0	199.1	199.2	199.2	200.4	202.6	204.3	204.3
172.5°	198.9	199.0	199.2	199.2	199.2	199.2	199.2	200.1	201.9	203.2	203.1
175°	200.5	200.5	200.5	200.5	200.0	199.5	199.2	199.7	200.9	201.8	201.8
177.5°	200.5	200.5	200.5	200.5	200.1	199.7	199.5	199.9	200.8	201.5	201.4
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9
2.5°	2463.3	2456.5	2463.3	2458.7	2461.0	2454.2	2433.7	2426.9	2433.7	2440.5	2440.5
5°	2492.8	2488.3	2492.8	2492.8	2490.6	2486.0	2463.3	2458.7	2463.3	2465.6	2461.0
7.5°	2501.9	2495.1	2501.9	2497.4	2497.4	2492.8	2470.1	2465.6	2467.8	2474.6	2467.8
10°	2501.9	2495.1	2501.9	2499.6	2497.4	2492.8	2470.1	2461.0	2461.0	2467.8	2461.0
12.5°	2490.6	2486.0	2490.6	2486.0	2486.0	2481.4	2458.7	2449.7	2451.9	2454.2	2445.1
15°	2472.4	2465.6	2472.4	2467.8	2470.1	2463.3	2438.3	2429.2	2429.2	2433.7	2417.9
17.5°	2445.1	2436.1	2445.1	2442.9	2440.5	2436.1	2413.3	2404.2	2401.9	2404.2	2392.8
20°	2413.3	2406.5	2413.3	2411.0	2411.0	2401.9	2379.2	2367.8	2367.8	2367.8	2356.5
22.5°	2363.3	2356.5	2363.3	2367.8	2367.8	2365.6	2345.1	2329.2	2324.7	2324.7	2311.1
25°	2306.5	2299.7	2306.5	2306.5	2304.3	2306.5	2299.7	2290.6	2283.8	2277.0	2263.3
27.5°	2252.0	2247.4	2252.0	2247.4	2252.0	2245.2	2242.8	2240.6	2231.5	2224.7	2206.5
30°	2197.5	2192.9	2197.5	2192.9	2188.3	2183.8	2172.4	2167.9	2177.0	2172.4	2142.8
32.5°	2129.2	2124.7	2129.2	2129.2	2124.7	2124.7	2106.5	2099.7	2102.0	2115.6	2088.3
35°	2058.8	2052.0	2058.8	2056.5	2058.8	2052.0	2040.6	2038.4	2029.2	2045.2	2024.7
37.5°	1977.0	1970.1	1977.0	1977.0	1977.0	1981.5	1972.5	1965.7	1952.0	1972.5	1956.5
40°	1893.0	1883.8	1893.0	1890.6	1893.0	1897.4	1893.0	1888.4	1874.7	1890.6	1877.0
42.5°	1797.5	1795.2	1797.5	1799.8	1799.8	1808.8	1815.7	1806.6	1802.0	1790.6	1799.8
45°	1695.2	1690.7	1695.2	1699.7	1702.0	1706.6	1727.1	1727.1	1720.3	1702.0	1715.7
47.5°	1586.1	1574.8	1586.1	1599.7	1599.7	1606.5	1627.1	1643.0	1631.6	1608.9	1615.7
50°	1470.3	1472.5	1470.3	1479.3	1479.3	1504.3	1520.2	1536.2	1547.5	1520.2	1488.5
52.5°	1356.7	1354.3	1356.7	1363.5	1372.5	1383.9	1411.2	1427.0	1445.2	1429.4	1379.3
55°	1243.0	1247.5	1243.0	1245.3	1249.9	1256.7	1297.6	1313.4	1347.5	1327.1	1274.8
57.5°	1129.3	1122.5	1129.3	1133.9	1136.2	1143.0	1177.1	1206.6	1227.1	1229.4	1165.8
60°	997.6	988.5	997.6	1018.1	1022.6	1027.1	1059.0	1086.2	1104.4	1111.2	1045.3
62.5°	881.7	865.8	881.7	895.3	904.4	915.8	938.5	979.4	995.3	997.6	904.4
65°	759.0	752.2	759.0	786.3	788.5	802.2	827.2	856.7	890.7	886.3	752.2
67.5°	647.7	647.7	647.7	665.8	679.5	686.3	718.0	731.7	774.9	779.5	627.2
70°	545.3	543.1	545.3	559.0	568.1	584.0	613.6	629.5	663.5	674.9	509.0
72.5°	447.7	445.4	447.7	459.0	468.2	481.8	506.7	524.9	554.5	568.1	395.4
75°	361.3	356.8	361.3	370.4	368.2	386.3	406.7	424.9	452.2	461.3	293.1
77.5°	277.3	277.3	277.3	286.3	286.3	304.5	313.6	336.3	352.2	365.8	215.9
80°	206.8	204.5	206.8	209.1	209.1	218.2	234.0	250.0	263.6	263.6	147.7
82.5°	145.4	140.9	145.4	145.4	145.4	150.0	159.1	163.6	172.7	179.5	93.2
85°	90.9	90.9	90.9	93.2	90.9	95.4	97.7	102.2	102.2	97.7	56.9
87.5°	59.1	56.9	59.1	56.9	56.9	54.5	54.5	54.5	52.3	50.0	31.8
90°	5.1	5.1	5.1	5.1	5.1	6.8	9.0	10.2	8.8	5.9	3.8
92.5°	20.4	16.4	20.4	24.5	25.5	36.2	50.4	57.6	50.6	36.5	26.0
95°	71.4	59.1	71.4	83.7	86.8	113.9	150.1	168.2	142.1	89.8	50.6
97.5°	171.0	147.5	171.0	194.5	200.3	217.5	240.3	251.8	208.2	121.0	55.5
100°	246.4	218.5	246.4	274.2	281.2	280.0	278.3	277.5	229.1	132.3	59.7
102.5°	320.5	296.6	320.5	344.4	350.4	328.5	299.3	284.7	235.6	137.5	63.9
105°	415.1	402.2	415.1	427.9	431.1	382.0	316.6	283.9	236.4	141.4	70.1
107.5°	476.9	480.1	476.9	473.9	473.1	404.7	313.4	267.8	225.9	142.1	79.2
110°	500.6	514.0	500.6	487.1	483.8	407.4	305.4	254.4	216.6	141.0	84.3





TEST NUMBER: P934162

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	502.6	523.2	502.6	482.0	476.9	398.7	294.3	242.1	208.4	141.0	90.5
115°	489.3	517.8	489.3	460.8	453.7	378.3	277.7	227.4	199.0	142.4	99.8
117.5°	461.1	492.7	461.1	429.4	421.5	353.5	262.8	217.4	193.2	145.0	108.8
120°	438.3	469.1	438.3	407.6	399.9	337.7	254.8	213.4	191.3	147.2	114.1
122.5°	416.1	446.4	416.1	385.9	378.3	322.2	247.6	210.2	190.3	150.2	120.2
125°	384.4	412.4	384.4	356.6	349.6	302.1	238.6	206.9	189.4	154.4	128.2
127.5°	356.1	379.6	356.1	332.5	326.6	285.8	231.3	204.0	188.9	158.6	135.8
130°	339.2	361.0	339.2	317.5	312.0	275.7	227.2	203.0	189.2	161.6	140.9
132.5°	324.0	343.5	324.0	304.5	299.7	267.2	223.7	202.1	189.4	164.1	145.1
135°	303.2	320.0	303.2	286.4	282.2	255.0	218.6	200.5	189.3	166.8	150.0
137.5°	286.5	300.2	286.5	272.7	269.3	246.3	215.6	200.2	190.4	170.8	156.1
140°	275.0	287.8	275.0	262.1	258.9	239.0	212.5	199.2	190.6	173.3	160.4
142.5°	265.5	276.6	265.5	254.4	251.7	234.2	210.8	199.2	191.2	175.3	163.4
145°	251.2	259.6	251.2	242.8	240.7	226.4	207.4	197.9	191.2	178.1	168.1
147.5°	240.3	247.2	240.3	233.3	231.6	220.3	205.4	197.9	192.6	182.0	174.0
150°	233.4	239.0	233.4	227.8	226.3	216.8	204.2	197.9	193.3	184.1	177.2
152.5°	227.5	231.8	227.5	223.3	222.2	214.1	203.2	197.9	193.7	185.4	179.2
155°	220.7	223.6	220.7	217.9	217.2	210.8	202.2	197.9	194.7	188.4	183.6
157.5°	215.4	217.4	215.4	213.4	212.9	207.9	201.2	197.9	195.7	191.3	188.0
160°	212.2	213.4	212.2	211.0	210.8	206.5	200.7	197.9	196.2	192.7	190.1
162.5°	210.1	211.2	210.1	209.1	208.8	205.1	200.3	197.9	196.6	194.1	192.2
165°	207.1	208.2	207.1	205.9	205.7	203.1	199.6	197.9	197.3	196.2	195.3
167.5°	204.9	205.4	204.9	204.4	204.3	202.6	200.4	199.2	198.8	197.8	197.1
170°	204.3	204.3	204.3	204.3	204.3	202.6	200.4	199.2	199.2	199.1	199.0
172.5°	202.7	202.3	202.7	203.1	203.2	201.9	200.1	199.2	199.2	199.2	199.2
175°	201.8	201.8	201.8	201.8	201.8	200.9	199.7	199.2	199.5	200.0	200.5
177.5°	200.9	200.5	200.9	201.4	201.5	200.8	199.9	199.5	199.7	200.1	200.5
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



TEST NUMBER: P934162

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9
2.5°	2436.1	2422.4	2422.4	2399.7	2390.6	2383.8	2372.4	2338.3	2329.2	2320.1	2333.7
5°	2456.5	2431.5	2413.3	2372.4	2338.3	2324.7	2281.5	2199.7	2145.2	2104.3	2081.5
7.5°	2461.0	2429.2	2395.1	2331.5	2249.7	2213.3	2081.5	1931.5	1890.6	1854.3	1831.5
10°	2456.5	2420.1	2372.4	2277.0	2083.8	2020.2	1888.4	1790.6	1765.6	1758.8	1765.6
12.5°	2440.5	2406.5	2340.6	2181.5	1911.1	1867.9	1790.6	1733.9	1729.3	1740.7	1802.0
15°	2413.3	2381.4	2304.3	2054.3	1815.7	1783.8	1729.3	1708.9	1733.9	1813.4	1997.4
17.5°	2386.0	2349.7	2254.2	1929.3	1742.9	1720.3	1681.6	1722.5	1863.4	1970.1	2031.6
20°	2349.7	2306.5	2197.5	1838.3	1690.7	1670.2	1652.0	1836.1	1942.9	1981.5	2015.6
22.5°	2306.5	2261.0	2120.2	1774.8	1636.1	1620.2	1631.6	1899.8	1942.9	1970.1	1999.7
25°	2249.7	2211.1	2029.2	1724.7	1592.9	1574.8	1617.9	1893.0	1917.9	1924.7	1983.8
27.5°	2197.5	2147.4	1933.8	1679.3	1540.7	1533.8	1629.3	1863.4	1881.6	1888.4	1952.0
30°	2133.8	2058.8	1827.0	1631.6	1486.1	1483.9	1631.6	1827.0	1822.5	1840.7	1904.2
32.5°	2067.9	1927.0	1706.6	1572.5	1433.9	1431.6	1615.7	1772.4	1768.0	1793.0	1840.7
35°	2006.6	1824.7	1543.0	1504.3	1367.9	1370.3	1577.1	1708.9	1711.1	1733.9	1763.4
37.5°	1942.9	1736.1	1363.5	1429.4	1304.4	1304.4	1524.8	1649.8	1645.2	1652.0	1692.9
40°	1867.9	1597.5	1204.4	1331.6	1245.3	1238.5	1461.1	1586.1	1570.2	1568.0	1624.8
42.5°	1788.4	1445.2	1086.2	1202.1	1177.1	1168.0	1383.9	1508.9	1479.3	1486.1	1558.8
45°	1702.0	1404.4	995.3	1015.7	1106.7	1099.8	1299.8	1420.2	1399.8	1418.0	1492.9
47.5°	1615.7	1322.6	965.8	843.0	1031.7	1029.4	1206.6	1333.9	1322.6	1340.7	1420.2
50°	1497.5	1231.7	963.5	722.6	947.6	956.6	1095.3	1249.9	1249.9	1265.7	1349.8
52.5°	1345.3	1120.3	874.9	654.5	849.9	877.1	997.6	1177.1	1181.6	1197.6	1272.5
55°	1206.6	1004.4	811.2	602.2	734.0	793.1	902.1	1102.1	1111.2	1127.1	1195.2
57.5°	1079.4	836.2	797.6	540.9	627.2	684.0	818.0	1029.4	1033.9	1047.6	1113.5
60°	943.0	604.4	731.7	475.0	534.1	577.2	740.8	943.0	959.0	968.0	1024.9
62.5°	788.5	438.6	663.5	429.5	488.6	497.6	677.2	861.2	881.7	888.5	922.6
65°	561.3	368.2	563.6	390.9	440.9	443.1	609.0	777.1	795.3	806.7	831.7
67.5°	379.5	299.9	429.5	354.5	404.5	406.7	543.1	679.5	704.4	713.6	729.4
70°	263.6	200.0	318.1	315.9	363.6	368.2	472.6	590.8	613.6	620.4	629.5
72.5°	193.1	161.3	263.6	284.1	320.4	325.0	399.9	490.8	513.6	520.4	524.9
75°	147.7	170.5	213.6	247.7	272.7	275.0	327.2	399.9	415.9	420.4	422.7
77.5°	118.2	159.1	156.8	200.0	222.7	218.2	256.8	309.1	322.7	322.7	322.7
80°	88.6	125.0	118.2	143.2	163.6	159.1	184.1	220.4	225.0	229.5	227.2
82.5°	65.9	79.5	79.5	90.9	109.0	104.6	122.7	143.2	143.2	143.2	147.7
85°	40.9	45.5	36.3	47.7	61.3	59.1	68.1	77.3	79.5	79.5	75.0
87.5°	25.0	20.4	11.4	18.2	27.3	27.3	31.8	34.1	31.8	31.8	31.8
90°	3.5	2.4	1.3	2.4	3.5	3.8	5.9	8.8	10.2	9.0	6.8
92.5°	23.6	14.5	5.4	14.5	23.6	26.0	36.5	50.6	57.6	50.4	36.2
95°	46.4	29.6	12.9	29.6	46.4	50.6	89.8	142.1	168.2	150.1	113.9
97.5°	51.8	37.1	22.3	37.1	51.8	55.5	121.0	208.2	251.8	240.3	217.5
100°	56.4	43.0	29.6	43.0	56.4	59.7	132.3	229.1	277.5	278.3	280.0
102.5°	60.8	48.3	35.8	48.3	60.8	63.9	137.5	235.6	284.7	299.3	328.5
105°	67.4	56.9	46.3	56.9	67.4	70.1	141.4	236.4	283.9	316.6	382.0
107.5°	76.7	66.9	57.0	66.9	76.7	79.2	142.1	225.9	267.8	313.4	404.7
110°	82.1	73.2	64.3	73.2	82.1	84.3	141.0	216.6	254.4	305.4	407.4



TEST NUMBER: P934162

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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	88.4	80.0	71.4	80.0	88.4	90.5	141.0	208.4	242.1	294.3	398.7
115°	97.9	90.1	82.2	90.1	97.9	99.8	142.4	199.0	227.4	277.7	378.3
117.5°	107.0	99.9	92.8	99.9	107.0	108.8	145.0	193.2	217.4	262.8	353.5
120°	112.4	105.7	99.0	105.7	112.4	114.1	147.2	191.3	213.4	254.8	337.7
122.5°	118.5	111.8	105.0	111.8	118.5	120.2	150.2	190.3	210.2	247.6	322.2
125°	126.7	120.5	114.3	120.5	126.7	128.2	154.4	189.4	206.9	238.6	302.1
127.5°	134.3	128.0	121.9	128.0	134.3	135.8	158.6	188.9	204.0	231.3	285.8
130°	139.2	132.6	125.9	132.6	139.2	140.9	161.6	189.2	203.0	227.2	275.7
132.5°	143.4	136.8	130.1	136.8	143.4	145.1	164.1	189.4	202.1	223.7	267.2
135°	148.4	142.4	136.3	142.4	148.4	150.0	166.8	189.3	200.5	218.6	255.0
137.5°	154.6	148.6	142.6	148.6	154.6	156.1	170.8	190.4	200.2	215.6	246.3
140°	158.9	153.4	147.8	153.4	158.9	160.4	173.3	190.6	199.2	212.5	239.0
142.5°	162.1	156.9	151.8	156.9	162.1	163.4	175.3	191.2	199.2	210.8	234.2
145°	167.0	162.5	158.0	162.5	167.0	168.1	178.1	191.2	197.9	207.4	226.4
147.5°	173.0	168.6	164.2	168.6	173.0	174.0	182.0	192.6	197.9	205.4	220.3
150°	176.2	172.2	168.2	172.2	176.2	177.2	184.1	193.3	197.9	204.2	216.8
152.5°	178.4	175.4	172.4	175.4	178.4	179.2	185.4	193.7	197.9	203.2	214.1
155°	183.1	180.9	178.6	180.9	183.1	183.6	188.4	194.7	197.9	202.2	210.8
157.5°	187.5	185.3	183.2	185.3	187.5	188.0	191.3	195.7	197.9	201.2	207.9
160°	189.6	188.0	186.3	188.0	189.6	190.1	192.7	196.2	197.9	200.7	206.5
162.5°	191.9	190.6	189.4	190.6	191.9	192.2	194.1	196.6	197.9	200.3	205.1
165°	195.0	193.8	192.8	193.8	195.0	195.3	196.2	197.3	197.9	199.6	203.1
167.5°	196.9	196.3	195.8	196.3	196.9	197.1	197.8	198.8	199.2	200.4	202.6
170°	198.9	198.4	197.9	198.4	198.9	199.0	199.1	199.2	199.2	200.4	202.6
172.5°	199.2	199.0	198.9	199.0	199.2	199.2	199.2	199.2	199.2	200.1	201.9
175°	200.5	200.5	200.5	200.5	200.5	200.5	200.0	199.5	199.2	199.7	200.9
177.5°	200.5	200.5	200.5	200.5	200.5	200.5	200.1	199.7	199.5	199.9	200.8
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



TEST NUMBER: P934162

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9
2.5°	2317.9	2311.1	2320.1	2295.1	2320.1	2311.1	2317.9	2333.7	2320.1	2329.2	2338.3
5°	2033.8	2022.4	1986.1	1956.5	1986.1	2022.4	2033.8	2081.5	2104.3	2145.2	2199.7
7.5°	1817.9	1808.8	1799.8	1781.6	1799.8	1808.8	1817.9	1831.5	1854.3	1890.6	1931.5
10°	1770.2	1772.4	1786.1	1783.8	1786.1	1772.4	1770.2	1765.6	1758.8	1765.6	1790.6
12.5°	1893.0	1913.4	1988.4	1983.8	1988.4	1913.4	1893.0	1802.0	1740.7	1729.3	1733.9
15°	2033.8	2040.6	2056.5	2058.8	2056.5	2040.6	2033.8	1997.4	1813.4	1733.9	1708.9
17.5°	2047.4	2049.7	2061.1	2061.1	2061.1	2049.7	2047.4	2031.6	1970.1	1863.4	1722.5
20°	2036.1	2040.6	2063.3	2067.9	2063.3	2040.6	2036.1	2015.6	1981.5	1942.9	1836.1
22.5°	2031.6	2040.6	2058.8	2056.5	2058.8	2040.6	2031.6	1999.7	1970.1	1942.9	1899.8
25°	2008.8	2008.8	2011.0	2013.4	2011.0	2008.8	2008.8	1983.8	1924.7	1917.9	1893.0
27.5°	1961.1	1965.7	1979.3	1977.0	1979.3	1965.7	1961.1	1952.0	1888.4	1881.6	1863.4
30°	1917.9	1913.4	1902.0	1893.0	1902.0	1913.4	1917.9	1904.2	1840.7	1822.5	1827.0
32.5°	1845.2	1833.9	1822.5	1815.7	1822.5	1833.9	1845.2	1840.7	1793.0	1768.0	1772.4
35°	1758.8	1761.1	1758.8	1752.0	1758.8	1761.1	1758.8	1763.4	1733.9	1711.1	1708.9
37.5°	1697.5	1702.0	1699.7	1690.7	1699.7	1702.0	1697.5	1692.9	1652.0	1645.2	1649.8
40°	1633.9	1636.1	1633.9	1627.1	1633.9	1636.1	1633.9	1624.8	1568.0	1570.2	1586.1
42.5°	1572.5	1570.2	1563.4	1558.8	1563.4	1570.2	1572.5	1558.8	1486.1	1479.3	1508.9
45°	1502.1	1504.3	1490.7	1483.9	1490.7	1504.3	1502.1	1492.9	1418.0	1399.8	1420.2
47.5°	1431.6	1431.6	1420.2	1413.4	1420.2	1431.6	1431.6	1420.2	1340.7	1322.6	1333.9
50°	1356.7	1354.3	1338.5	1336.2	1338.5	1354.3	1356.7	1349.8	1265.7	1249.9	1249.9
52.5°	1270.3	1270.3	1272.5	1277.1	1272.5	1270.3	1270.3	1272.5	1197.6	1181.6	1177.1
55°	1195.2	1197.6	1213.5	1218.0	1213.5	1197.6	1195.2	1195.2	1127.1	1111.2	1102.1
57.5°	1118.1	1118.1	1129.3	1129.3	1129.3	1118.1	1118.1	1113.5	1047.6	1033.9	1029.4
60°	1029.4	1033.9	1043.0	1040.8	1043.0	1033.9	1029.4	1024.9	968.0	959.0	943.0
62.5°	936.2	940.8	943.0	938.5	943.0	940.8	936.2	922.6	888.5	881.7	861.2
65°	838.5	843.0	845.4	840.8	845.4	843.0	838.5	831.7	806.7	795.3	777.1
67.5°	738.5	736.2	734.0	743.1	734.0	736.2	738.5	729.4	713.6	704.4	679.5
70°	636.3	636.3	634.0	638.5	634.0	636.3	636.3	629.5	620.4	613.6	590.8
72.5°	527.2	524.9	534.1	527.2	534.1	524.9	527.2	524.9	520.4	513.6	490.8
75°	420.4	424.9	420.4	427.2	420.4	424.9	420.4	422.7	420.4	415.9	399.9
77.5°	320.4	325.0	320.4	320.4	320.4	325.0	320.4	322.7	322.7	322.7	309.1
80°	227.2	225.0	225.0	222.7	225.0	225.0	227.2	227.2	229.5	225.0	220.4
82.5°	145.4	143.2	143.2	147.7	143.2	143.2	145.4	147.7	143.2	143.2	143.2
85°	79.5	81.8	77.3	77.3	77.3	81.8	79.5	75.0	79.5	79.5	77.3
87.5°	29.5	27.3	27.3	27.3	27.3	27.3	29.5	31.8	31.8	31.8	34.1
90°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.8	9.0	10.2	8.8
92.5°	25.5	24.5	20.4	16.4	20.4	24.5	25.5	36.2	50.4	57.6	50.6
95°	86.8	83.7	71.4	59.1	71.4	83.7	86.8	113.9	150.1	168.2	142.1
97.5°	200.3	194.5	171.0	147.5	171.0	194.5	200.3	217.5	240.3	251.8	208.2
100°	281.2	274.2	246.4	218.5	246.4	274.2	281.2	280.0	278.3	277.5	229.1
102.5°	350.4	344.4	320.5	296.6	320.5	344.4	350.4	328.5	299.3	284.7	235.6
105°	431.1	427.9	415.1	402.2	415.1	427.9	431.1	382.0	316.6	283.9	236.4
107.5°	473.1	473.9	476.9	480.1	476.9	473.9	473.1	404.7	313.4	267.8	225.9
110°	483.8	487.1	500.6	514.0	500.6	487.1	483.8	407.4	305.4	254.4	216.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	476.9	482.0	502.6	523.2	502.6	482.0	476.9	398.7	294.3	242.1	208.4
115°	453.7	460.8	489.3	517.8	489.3	460.8	453.7	378.3	277.7	227.4	199.0
117.5°	421.5	429.4	461.1	492.7	461.1	429.4	421.5	353.5	262.8	217.4	193.2
120°	399.9	407.6	438.3	469.1	438.3	407.6	399.9	337.7	254.8	213.4	191.3
122.5°	378.3	385.9	416.1	446.4	416.1	385.9	378.3	322.2	247.6	210.2	190.3
125°	349.6	356.6	384.4	412.4	384.4	356.6	349.6	302.1	238.6	206.9	189.4
127.5°	326.6	332.5	356.1	379.6	356.1	332.5	326.6	285.8	231.3	204.0	188.9
130°	312.0	317.5	339.2	361.0	339.2	317.5	312.0	275.7	227.2	203.0	189.2
132.5°	299.7	304.5	324.0	343.5	324.0	304.5	299.7	267.2	223.7	202.1	189.4
135°	282.2	286.4	303.2	320.0	303.2	286.4	282.2	255.0	218.6	200.5	189.3
137.5°	269.3	272.7	286.5	300.2	286.5	272.7	269.3	246.3	215.6	200.2	190.4
140°	258.9	262.1	275.0	287.8	275.0	262.1	258.9	239.0	212.5	199.2	190.6
142.5°	251.7	254.4	265.5	276.6	265.5	254.4	251.7	234.2	210.8	199.2	191.2
145°	240.7	242.8	251.2	259.6	251.2	242.8	240.7	226.4	207.4	197.9	191.2
147.5°	231.6	233.3	240.3	247.2	240.3	233.3	231.6	220.3	205.4	197.9	192.6
150°	226.3	227.8	233.4	239.0	233.4	227.8	226.3	216.8	204.2	197.9	193.3
152.5°	222.2	223.3	227.5	231.8	227.5	223.3	222.2	214.1	203.2	197.9	193.7
155°	217.2	217.9	220.7	223.6	220.7	217.9	217.2	210.8	202.2	197.9	194.7
157.5°	212.9	213.4	215.4	217.4	215.4	213.4	212.9	207.9	201.2	197.9	195.7
160°	210.8	211.0	212.2	213.4	212.2	211.0	210.8	206.5	200.7	197.9	196.2
162.5°	208.8	209.1	210.1	211.2	210.1	209.1	208.8	205.1	200.3	197.9	196.6
165°	205.7	205.9	207.1	208.2	207.1	205.9	205.7	203.1	199.6	197.9	197.3
167.5°	204.3	204.4	204.9	205.4	204.9	204.4	204.3	202.6	200.4	199.2	198.8
170°	204.3	204.3	204.3	204.3	204.3	204.3	204.3	202.6	200.4	199.2	199.2
172.5°	203.2	203.1	202.7	202.3	202.7	203.1	203.2	201.9	200.1	199.2	199.2
175°	201.8	201.8	201.8	201.8	201.8	201.8	201.8	200.9	199.7	199.2	199.5
177.5°	201.5	201.4	200.9	200.5	200.9	201.4	201.5	200.8	199.9	199.5	199.7
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2401.9	2401.9	2401.9	2401.9	2401.9
2.5°	2372.4	2383.8	2390.6	2399.7	2422.4
5°	2281.5	2324.7	2338.3	2372.4	2413.3
7.5°	2081.5	2213.3	2249.7	2331.5	2395.1
10°	1888.4	2020.2	2083.8	2277.0	2372.4
12.5°	1790.6	1867.9	1911.1	2181.5	2340.6
15°	1729.3	1783.8	1815.7	2054.3	2304.3
17.5°	1681.6	1720.3	1742.9	1929.3	2254.2
20°	1652.0	1670.2	1690.7	1838.3	2197.5
22.5°	1631.6	1620.2	1636.1	1774.8	2120.2
25°	1617.9	1574.8	1592.9	1724.7	2029.2
27.5°	1629.3	1533.8	1540.7	1679.3	1933.8
30°	1631.6	1483.9	1486.1	1631.6	1827.0
32.5°	1615.7	1431.6	1433.9	1572.5	1706.6
35°	1577.1	1370.3	1367.9	1504.3	1543.0
37.5°	1524.8	1304.4	1304.4	1429.4	1363.5
40°	1461.1	1238.5	1245.3	1331.6	1204.4
42.5°	1383.9	1168.0	1177.1	1202.1	1086.2
45°	1299.8	1099.8	1106.7	1015.7	995.3
47.5°	1206.6	1029.4	1031.7	843.0	965.8
50°	1095.3	956.6	947.6	722.6	963.5
52.5°	997.6	877.1	849.9	654.5	874.9
55°	902.1	793.1	734.0	602.2	811.2
57.5°	818.0	684.0	627.2	540.9	797.6
60°	740.8	577.2	534.1	475.0	731.7
62.5°	677.2	497.6	488.6	429.5	663.5
65°	609.0	443.1	440.9	390.9	563.6
67.5°	543.1	406.7	404.5	354.5	429.5
70°	472.6	368.2	363.6	315.9	318.1
72.5°	399.9	325.0	320.4	284.1	263.6
75°	327.2	275.0	272.7	247.7	213.6
77.5°	256.8	218.2	222.7	200.0	156.8
80°	184.1	159.1	163.6	143.2	118.2
82.5°	122.7	104.6	109.0	90.9	79.5
85°	68.1	59.1	61.3	47.7	36.3
87.5°	31.8	27.3	27.3	18.2	11.4
90°	5.9	3.8	3.5	2.4	1.3
92.5°	36.5	26.0	23.6	14.5	5.4
95°	89.8	50.6	46.4	29.6	12.9
97.5°	121.0	55.5	51.8	37.1	22.3
100°	132.3	59.7	56.4	43.0	29.6
102.5°	137.5	63.9	60.8	48.3	35.8
105°	141.4	70.1	67.4	56.9	46.3
107.5°	142.1	79.2	76.7	66.9	57.0
110°	141.0	84.3	82.1	73.2	64.3



TEST NUMBER: P934162

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	141.0	90.5	88.4	80.0	71.4
115°	142.4	99.8	97.9	90.1	82.2
117.5°	145.0	108.8	107.0	99.9	92.8
120°	147.2	114.1	112.4	105.7	99.0
122.5°	150.2	120.2	118.5	111.8	105.0
125°	154.4	128.2	126.7	120.5	114.3
127.5°	158.6	135.8	134.3	128.0	121.9
130°	161.6	140.9	139.2	132.6	125.9
132.5°	164.1	145.1	143.4	136.8	130.1
135°	166.8	150.0	148.4	142.4	136.3
137.5°	170.8	156.1	154.6	148.6	142.6
140°	173.3	160.4	158.9	153.4	147.8
142.5°	175.3	163.4	162.1	156.9	151.8
145°	178.1	168.1	167.0	162.5	158.0
147.5°	182.0	174.0	173.0	168.6	164.2
150°	184.1	177.2	176.2	172.2	168.2
152.5°	185.4	179.2	178.4	175.4	172.4
155°	188.4	183.6	183.1	180.9	178.6
157.5°	191.3	188.0	187.5	185.3	183.2
160°	192.7	190.1	189.6	188.0	186.3
162.5°	194.1	192.2	191.9	190.6	189.4
165°	196.2	195.3	195.0	193.8	192.8
167.5°	197.8	197.1	196.9	196.3	195.8
170°	199.1	199.0	198.9	198.4	197.9
172.5°	199.2	199.2	199.2	199.0	198.9
175°	200.0	200.5	200.5	200.5	200.5
177.5°	200.1	200.5	200.5	200.5	200.5
180°	200.5	200.5	200.5	200.5	200.5



TEST NUMBER: P934162  
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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	16.79	18.05	17.40	18.67	19.38	19.61	20.87	20.23	21.50	22.21
	3H	17.30	18.43	17.92	19.06	19.81	20.99	22.12	21.61	22.75	23.50
	4H	17.50	18.57	18.15	19.22	19.98	21.45	22.51	22.10	23.16	23.92
	6H	17.64	18.63	18.31	19.29	20.06	21.75	22.74	22.41	23.40	24.17
	8H	17.66	18.60	18.33	19.28	20.05	21.84	22.78	22.51	23.46	24.23
	12H	17.64	18.54	18.32	19.21	20.02	21.89	22.78	22.57	23.46	24.26
4H	2H	17.87	18.93	18.52	19.58	20.34	20.07	21.14	20.72	21.78	22.55
	3H	18.93	19.82	19.59	20.51	21.29	21.61	22.50	22.27	23.19	23.97
	4H	19.22	20.03	19.90	20.72	21.53	22.15	22.96	22.83	23.65	24.46
	6H	19.37	20.07	20.07	20.79	21.61	22.54	23.24	23.24	23.96	24.78
	8H	19.39	20.04	20.09	20.75	21.59	22.65	23.31	23.36	24.02	24.86
	12H	19.37	19.96	20.10	20.70	21.54	22.73	23.32	23.46	24.06	24.89
8H	4H	19.71	20.36	20.41	21.08	21.91	22.31	22.96	23.02	23.68	24.51
	6H	19.99	20.53	20.72	21.28	22.12	22.76	23.30	23.50	24.06	24.90
	8H	20.03	20.52	20.78	21.27	22.13	22.92	23.40	23.66	24.16	25.01
	12H	20.03	20.46	20.78	21.21	22.12	23.03	23.46	23.78	24.21	25.12
12H	4H	19.73	20.32	20.46	21.06	21.90	22.29	22.88	23.02	23.62	24.46
	6H	20.05	20.53	20.80	21.29	22.14	22.76	23.25	23.51	24.00	24.86
	8H	20.13	20.56	20.88	21.31	22.22	22.94	23.37	23.69	24.12	25.03