

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: P934571

Luminaire Tested: SQ4-FA-050U-125D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

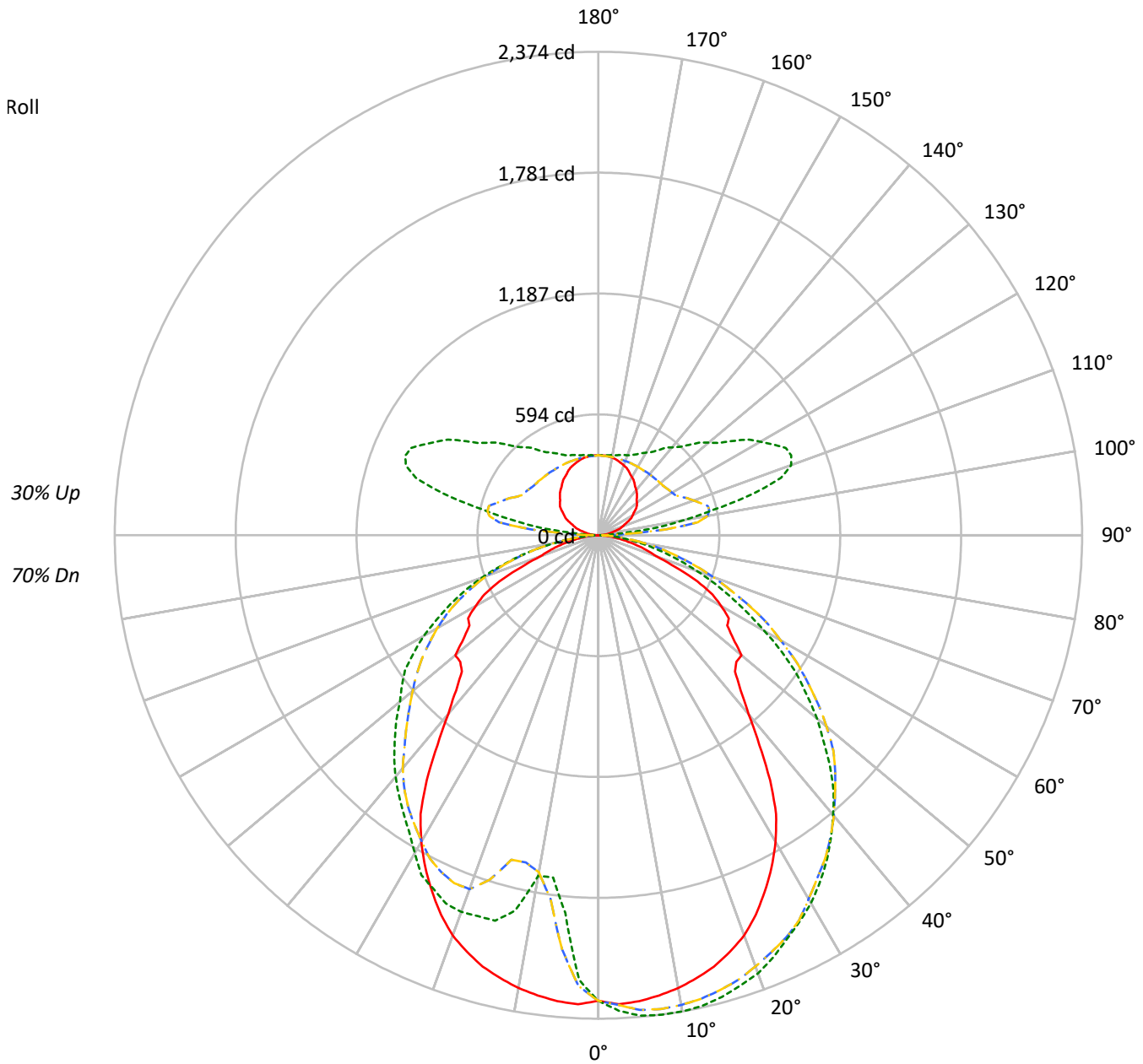
Test Method: LM-79-2019  
Report Number: P934571  
REPORT IS A COMBINATION OF REPORTS P933703 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-125D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8472.3 lumens  
Efficiency: N/A  
Efficacy: 100.9 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): 84  
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				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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	29	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

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

	0°	90°	180°	270°
0°	14140	14140	14140	14140
5°	14241	14274	14241	11223
10°	14140	14060	14140	10052
15°	13981	13756	13981	11486
20°	13683	13395	13683	11510
25°	13079	12868	13079	11266
30°	12301	12431	12301	10731
35°	10961	11879	10961	10142
40°	9128	11228	9128	9697
45°	8151	10466	8151	9186
50°	8652	9558	8652	8673
55°	8133	8579	8133	8376
60°	8373	7287	8373	7672
65°	7579	6023	7579	6733
70°	5235	4800	5235	5643
75°	4575	3548	4575	4250
80°	3662	2346	3662	2554
85°	2063	1242	2063	1056

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 12500 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.3	2.4
10°-20°	585.8	6.9
20°-30°	905.6	10.7
30°-40°	1081.1	12.8
40°-50°	1087.4	12.8
50°-60°	946.2	11.2
60°-70°	670.8	7.9
70°-80°	354.9	4.2
80°-90°	89.9	1.1
90°-100°	191.3	2.3
100°-110°	503.0	5.9
110°-120°	521.5	6.2
120°-130°	418.3	4.9
130°-140°	328.2	3.9
140°-150°	251.9	3.0
150°-160°	181.4	2.1
160°-170°	111.0	1.3
170°-180°	37.5	0.4
0°-30°	1697.7	20.0
0°-40°	2778.8	32.8
0°-60°	4812.3	56.8
0°-90°	5928.0	70.0
90°-120°	1215.8	14.4
90°-150°	2214.3	26.1
90°-180°	2544.0	30.0
0°-180°	8472.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2286	2286	2286	2286	2286	
5°	2297	2368	2297	1862	2297	218
15°	2193	2346	2193	1959	2193	617
25°	1931	2188	1931	1916	1931	887
35°	1468	1953	1468	1667	1468	908
45°	947	1609	947	1412	947	759
55°	772	1187	772	1159	772	709
65°	536	716	536	800	536	513
75°	203	340	203	407	203	214
85°	35	86	35	74	35	47
90°	3	10	3	10	3	4
95°	25	116	25	116	25	28
105°	91	788	91	788	91	96
115°	161	1014	161	1014	161	159
125°	224	808	224	808	224	199
135°	267	627	267	627	267	206
145°	310	508	310	508	310	194
155°	350	438	350	438	350	161
165°	377	408	377	408	377	107
175°	392	395	392	395	392	37
180°	392	392	392	392	392	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2305.2	2305.2	2318.2	2322.5	2322.5	2316.0	2309.5	2316.0	2335.5	2342.0	2339.8
5°	2296.6	2313.9	2337.6	2342.0	2346.3	2344.1	2339.8	2344.1	2365.7	2370.1	2372.2
7.5°	2279.3	2311.6	2342.0	2348.5	2354.9	2348.5	2346.3	2350.6	2372.2	2376.6	2376.6
10°	2257.6	2303.0	2337.6	2342.0	2348.5	2342.0	2342.0	2350.6	2372.2	2376.6	2378.7
12.5°	2227.4	2290.1	2322.5	2326.8	2335.5	2333.3	2331.2	2339.8	2361.4	2365.7	2365.7
15°	2192.8	2266.2	2296.6	2300.9	2316.0	2311.6	2311.6	2320.3	2344.1	2350.6	2348.5
17.5°	2145.2	2236.0	2270.6	2277.1	2287.9	2285.7	2287.9	2296.6	2318.2	2322.5	2324.7
20°	2091.1	2194.9	2236.0	2242.5	2253.3	2253.3	2253.3	2264.1	2285.7	2294.4	2294.4
22.5°	2017.6	2151.6	2194.9	2199.3	2212.2	2212.2	2216.6	2231.6	2251.2	2253.3	2253.3
25°	1931.1	2104.1	2140.8	2153.9	2166.8	2173.3	2179.8	2188.4	2194.9	2192.8	2194.9
27.5°	1840.2	2043.5	2091.1	2099.8	2117.0	2123.5	2132.2	2134.3	2136.6	2143.0	2138.7
30°	1738.6	1959.2	2030.6	2039.2	2067.3	2071.6	2063.0	2067.3	2078.1	2082.5	2086.8
32.5°	1624.0	1833.8	1967.9	1987.3	2013.3	2000.3	1998.1	2004.6	2021.9	2021.9	2026.2
35°	1468.3	1736.5	1909.5	1926.8	1946.2	1931.1	1939.7	1941.9	1952.7	1959.2	1957.0
37.5°	1297.5	1652.1	1848.9	1861.9	1877.0	1857.5	1870.6	1877.0	1885.6	1881.4	1881.4
40°	1146.1	1520.2	1777.5	1786.2	1799.2	1784.0	1797.0	1801.4	1805.6	1801.4	1799.2
42.5°	1033.6	1375.3	1701.9	1712.7	1704.0	1714.8	1719.2	1727.9	1721.3	1712.7	1712.7
45°	947.2	1336.4	1619.7	1632.7	1619.7	1637.0	1643.5	1643.5	1624.0	1619.7	1617.5
47.5°	919.1	1258.6	1537.5	1537.5	1531.0	1552.7	1563.5	1548.3	1528.8	1522.4	1522.4
50°	916.9	1172.1	1425.1	1416.4	1446.7	1472.7	1461.9	1446.7	1431.5	1407.8	1407.8
52.5°	832.6	1066.1	1280.2	1312.6	1360.2	1375.3	1358.0	1342.9	1316.9	1306.1	1297.5
55°	772.0	955.8	1148.2	1213.2	1262.9	1282.3	1249.9	1234.8	1195.9	1189.4	1185.0
57.5°	759.0	795.8	1027.2	1109.4	1169.9	1167.8	1148.2	1120.1	1087.7	1081.3	1079.1
60°	696.3	575.2	897.4	994.7	1057.4	1050.9	1033.6	1007.7	977.4	973.2	968.8
62.5°	631.4	417.4	750.4	860.7	949.3	947.2	932.0	893.1	871.5	860.7	852.0
65°	536.3	350.3	534.1	715.8	843.4	847.7	815.3	787.2	763.4	750.4	748.2
67.5°	408.7	285.4	361.2	596.8	741.8	737.4	696.3	683.3	653.1	646.6	633.6
70°	302.7	190.3	250.8	484.4	642.2	631.4	599.0	583.9	555.8	540.6	532.0
72.5°	250.8	153.5	183.8	376.2	540.6	527.6	499.5	482.2	458.5	445.5	436.8
75°	203.3	162.2	140.6	278.9	439.0	430.3	404.4	387.1	367.6	350.3	352.5
77.5°	149.2	151.4	112.5	205.4	348.1	335.2	320.0	298.5	289.8	272.5	272.5
80°	112.5	118.9	84.3	140.6	250.8	250.8	237.9	222.7	207.6	198.9	198.9
82.5°	75.7	75.7	62.7	88.7	170.8	164.4	155.7	151.4	142.7	138.4	138.4
85°	34.6	43.3	38.9	54.1	93.0	97.3	97.3	93.0	90.8	86.5	88.7
87.5°	10.8	19.4	23.8	30.2	47.5	49.8	51.9	51.9	51.9	54.1	54.1
90°	2.6	4.8	6.9	7.4	11.6	17.2	20.0	17.8	13.3	10.0	10.0
92.5°	10.6	28.5	46.3	50.9	71.5	99.0	112.7	98.7	70.9	50.0	48.1
95°	25.3	58.0	90.8	99.0	175.9	278.3	329.6	294.1	223.1	169.9	163.8
97.5°	43.7	72.7	101.6	108.8	236.9	407.8	493.1	470.7	425.8	392.2	380.7
100°	57.9	84.2	110.4	117.0	259.1	448.7	543.4	545.0	548.3	550.8	537.2
102.5°	70.0	94.6	119.0	125.2	269.3	461.5	557.6	586.2	643.3	686.2	674.5
105°	90.7	111.4	132.1	137.3	276.8	463.0	556.0	620.1	748.1	844.2	837.9
107.5°	111.7	131.0	150.3	155.1	278.3	442.4	524.4	613.7	792.4	926.4	927.9
110°	125.9	143.3	160.8	165.1	276.1	424.1	498.1	597.9	797.7	947.5	954.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	139.9	156.5	173.1	177.3	276.2	408.2	474.1	576.4	780.8	934.0	944.1
115°	160.9	176.3	191.6	195.4	278.8	389.9	445.4	543.9	740.8	888.5	902.4
117.5°	181.7	195.7	209.6	213.1	284.0	378.5	425.7	514.5	692.2	825.5	841.0
120°	193.8	207.0	220.1	223.4	288.1	374.5	417.7	498.9	661.3	783.1	798.2
122.5°	205.8	219.0	232.2	235.5	294.2	372.5	411.7	484.8	631.1	740.7	755.6
125°	223.9	235.9	248.0	251.0	302.4	370.9	405.1	467.2	591.5	684.6	698.2
127.5°	238.6	250.8	263.0	266.1	310.6	369.9	399.6	452.9	559.5	639.5	651.0
130°	246.6	259.7	272.8	276.0	316.5	370.4	397.5	444.9	539.9	611.1	621.8
132.5°	254.7	267.9	281.0	284.2	321.4	370.9	395.7	438.2	523.1	586.9	596.4
135°	266.8	278.8	290.7	293.7	326.7	370.5	392.5	428.1	499.3	552.6	560.9
137.5°	279.2	291.0	302.8	305.8	334.5	372.8	391.9	422.0	482.1	527.3	534.0
140°	289.5	300.4	311.2	314.0	339.4	373.2	390.1	416.1	468.1	507.0	513.3
142.5°	297.3	307.4	317.5	320.0	343.4	374.5	390.1	413.0	458.5	492.8	498.2
145°	309.5	318.3	327.1	329.3	348.7	374.5	387.5	406.1	443.5	471.5	475.6
147.5°	321.6	330.2	338.8	340.9	356.4	377.1	387.5	402.1	431.5	453.6	457.0
150°	329.6	337.3	345.0	346.9	360.5	378.5	387.5	399.9	424.7	443.3	446.0
152.5°	337.6	343.5	349.4	350.9	363.0	379.3	387.5	398.1	419.3	435.1	437.2
155°	349.8	354.2	358.4	359.5	368.8	381.3	387.5	395.9	412.8	425.4	426.8
157.5°	358.8	363.0	367.2	368.2	374.6	383.2	387.5	394.0	407.2	417.0	417.9
160°	364.8	368.1	371.3	372.2	377.3	384.1	387.5	393.1	404.4	412.8	413.3
162.5°	370.9	373.3	375.8	376.4	380.1	385.0	387.5	392.3	401.7	408.8	409.3
165°	377.4	379.7	381.9	382.5	384.2	386.4	387.5	390.9	397.6	402.7	403.3
167.5°	383.5	384.5	385.6	385.9	387.3	389.2	390.1	392.3	396.8	400.1	400.4
170°	387.5	388.5	389.6	389.9	390.0	390.0	390.1	392.3	396.8	400.1	400.1
172.5°	389.6	389.9	390.0	390.1	390.1	390.1	390.1	391.8	395.3	398.0	397.8
175°	392.5	392.5	392.5	392.5	391.7	390.6	390.1	391.2	393.5	395.1	395.1
177.5°	392.5	392.5	392.5	392.5	391.9	391.1	390.6	391.5	393.3	394.6	394.3
180°	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2344.1	2337.6	2344.1	2339.8	2342.0	2335.5	2316.0	2309.5	2316.0	2322.5	2322.5
5°	2372.2	2367.9	2372.2	2372.2	2370.1	2365.7	2344.1	2339.8	2344.1	2346.3	2342.0
7.5°	2380.9	2374.4	2380.9	2376.6	2376.6	2372.2	2350.6	2346.3	2348.5	2354.9	2348.5
10°	2380.9	2374.4	2380.9	2378.7	2376.6	2372.2	2350.6	2342.0	2342.0	2348.5	2342.0
12.5°	2370.1	2365.7	2370.1	2365.7	2365.7	2361.4	2339.8	2331.2	2333.3	2335.5	2326.8
15°	2352.8	2346.3	2352.8	2348.5	2350.6	2344.1	2320.3	2311.6	2311.6	2316.0	2300.9
17.5°	2326.8	2318.2	2326.8	2324.7	2322.5	2318.2	2296.6	2287.9	2285.7	2287.9	2277.1
20°	2296.6	2290.1	2296.6	2294.4	2294.4	2285.7	2264.1	2253.3	2253.3	2253.3	2242.5
22.5°	2248.9	2242.5	2248.9	2253.3	2253.3	2251.2	2231.6	2216.6	2212.2	2212.2	2199.3
25°	2194.9	2188.4	2194.9	2194.9	2192.8	2194.9	2188.4	2179.8	2173.3	2166.8	2153.9
27.5°	2143.0	2138.7	2143.0	2138.7	2143.0	2136.6	2134.3	2132.2	2123.5	2117.0	2099.8
30°	2091.1	2086.8	2091.1	2086.8	2082.5	2078.1	2067.3	2063.0	2071.6	2067.3	2039.2
32.5°	2026.2	2021.9	2026.2	2026.2	2021.9	2021.9	2004.6	1998.1	2000.3	2013.3	1987.3
35°	1959.2	1952.7	1959.2	1957.0	1959.2	1952.7	1941.9	1939.7	1931.1	1946.2	1926.8
37.5°	1881.4	1874.8	1881.4	1881.4	1881.4	1885.6	1877.0	1870.6	1857.5	1877.0	1861.9
40°	1801.4	1792.7	1801.4	1799.2	1801.4	1805.6	1801.4	1797.0	1784.0	1799.2	1786.2
42.5°	1710.6	1708.3	1710.6	1712.7	1712.7	1721.3	1727.9	1719.2	1714.8	1704.0	1712.7
45°	1613.2	1608.9	1613.2	1617.5	1619.7	1624.0	1643.5	1643.5	1637.0	1619.7	1632.7
47.5°	1509.4	1498.6	1509.4	1522.4	1522.4	1528.8	1548.3	1563.5	1552.7	1531.0	1537.5
50°	1399.2	1401.3	1399.2	1407.8	1407.8	1431.5	1446.7	1461.9	1472.7	1446.7	1416.4
52.5°	1291.0	1288.8	1291.0	1297.5	1306.1	1316.9	1342.9	1358.0	1375.3	1360.2	1312.6
55°	1182.8	1187.2	1182.8	1185.0	1189.4	1195.9	1234.8	1249.9	1282.3	1262.9	1213.2
57.5°	1074.7	1068.2	1074.7	1079.1	1081.3	1087.7	1120.1	1148.2	1167.8	1169.9	1109.4
60°	949.3	940.7	949.3	968.8	973.2	977.4	1007.7	1033.6	1050.9	1057.4	994.7
62.5°	839.0	823.9	839.0	852.0	860.7	871.5	893.1	932.0	947.2	949.3	860.7
65°	722.2	715.8	722.2	748.2	750.4	763.4	787.2	815.3	847.7	843.4	715.8
67.5°	616.3	616.3	616.3	633.6	646.6	653.1	683.3	696.3	737.4	741.8	596.8
70°	519.0	516.8	519.0	532.0	540.6	555.8	583.9	599.0	631.4	642.2	484.4
72.5°	426.0	423.9	426.0	436.8	445.5	458.5	482.2	499.5	527.6	540.6	376.2
75°	343.9	339.5	343.9	352.5	350.3	367.6	387.1	404.4	430.3	439.0	278.9
77.5°	263.9	263.9	263.9	272.5	272.5	289.8	298.5	320.0	335.2	348.1	205.4
80°	196.8	194.6	196.8	198.9	198.9	207.6	222.7	237.9	250.8	250.8	140.6
82.5°	138.4	134.1	138.4	138.4	138.4	142.7	151.4	155.7	164.4	170.8	88.7
85°	86.5	86.5	86.5	88.7	86.5	90.8	93.0	97.3	97.3	93.0	54.1
87.5°	56.2	54.1	56.2	54.1	54.1	51.9	51.9	51.9	49.8	47.5	30.2
90°	10.0	10.0	10.0	10.0	10.0	13.3	17.8	20.0	17.2	11.6	7.4
92.5°	40.0	32.1	40.0	48.1	50.0	70.9	98.7	112.7	99.0	71.5	50.9
95°	139.7	115.6	139.7	163.8	169.9	223.1	294.1	329.6	278.3	175.9	99.0
97.5°	334.8	289.0	334.8	380.7	392.2	425.8	470.7	493.1	407.8	236.9	108.8
100°	482.5	427.8	482.5	537.2	550.8	548.3	545.0	543.4	448.7	259.1	117.0
102.5°	627.7	580.8	627.7	674.5	686.2	643.3	586.2	557.6	461.5	269.3	125.2
105°	812.8	787.6	812.8	837.9	844.2	748.1	620.1	556.0	463.0	276.8	137.3
107.5°	934.0	940.1	934.0	927.9	926.4	792.4	613.7	524.4	442.4	278.3	155.1
110°	980.2	1006.5	980.2	954.1	947.5	797.7	597.9	498.1	424.1	276.1	165.1





TEST NUMBER: P934571

CATALOG NUMBER: SQ4-FA-050U-125D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	984.4	1024.6	984.4	944.1	934.0	780.8	576.4	474.1	408.2	276.2	177.3
115°	958.2	1014.1	958.2	902.4	888.5	740.8	543.9	445.4	389.9	278.8	195.4
117.5°	902.9	964.9	902.9	841.0	825.5	692.2	514.5	425.7	378.5	284.0	213.1
120°	858.3	918.5	858.3	798.2	783.1	661.3	498.9	417.7	374.5	288.1	223.4
122.5°	814.9	874.2	814.9	755.6	740.7	631.1	484.8	411.7	372.5	294.2	235.5
125°	752.9	807.6	752.9	698.2	684.6	591.5	467.2	405.1	370.9	302.4	251.0
127.5°	697.2	743.4	697.2	651.0	639.5	559.5	452.9	399.6	369.9	310.6	266.1
130°	664.4	707.0	664.4	621.8	611.1	539.9	444.9	397.5	370.4	316.5	276.0
132.5°	634.6	672.7	634.6	596.4	586.9	523.1	438.2	395.7	370.9	321.4	284.2
135°	593.8	626.6	593.8	560.9	552.6	499.3	428.1	392.5	370.5	326.7	293.7
137.5°	561.0	588.0	561.0	534.0	527.3	482.1	422.0	391.9	372.8	334.5	305.8
140°	538.5	563.7	538.5	513.3	507.0	468.1	416.1	390.1	373.2	339.4	314.0
142.5°	519.9	541.5	519.9	498.2	492.8	458.5	413.0	390.1	374.5	343.4	320.0
145°	492.0	508.4	492.0	475.6	471.5	443.5	406.1	387.5	374.5	348.7	329.3
147.5°	470.6	484.1	470.6	457.0	453.6	431.5	402.1	387.5	377.1	356.4	340.9
150°	457.1	468.1	457.1	446.0	443.3	424.7	399.9	387.5	378.5	360.5	346.9
152.5°	445.5	453.9	445.5	437.2	435.1	419.3	398.1	387.5	379.3	363.0	350.9
155°	432.3	437.8	432.3	426.8	425.4	412.8	395.9	387.5	381.3	368.8	359.5
157.5°	421.8	425.7	421.8	417.9	417.0	407.2	394.0	387.5	383.2	374.6	368.2
160°	415.5	417.7	415.5	413.3	412.8	404.4	393.1	387.5	384.1	377.3	372.2
162.5°	411.4	413.6	411.4	409.3	408.8	401.7	392.3	387.5	385.0	380.1	376.4
165°	405.6	407.8	405.6	403.3	402.7	397.6	390.9	387.5	386.4	384.2	382.5
167.5°	401.3	402.2	401.3	400.4	400.1	396.8	392.3	390.1	389.2	387.3	385.9
170°	400.1	400.1	400.1	400.1	400.1	396.8	392.3	390.1	390.0	390.0	389.9
172.5°	396.9	396.2	396.9	397.8	398.0	395.3	391.8	390.1	390.1	390.1	390.1
175°	395.1	395.1	395.1	395.1	395.1	393.5	391.2	390.1	390.6	391.7	392.5
177.5°	393.5	392.5	393.5	394.3	394.6	393.3	391.5	390.6	391.1	391.9	392.5
180°	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5



TEST NUMBER: P934571

CATALOG NUMBER: SQ4-FA-050U-125D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2318.2	2305.2	2305.2	2283.6	2274.9	2268.4	2257.6	2225.2	2216.6	2207.9	2220.8
5°	2337.6	2313.9	2296.6	2257.6	2225.2	2212.2	2171.2	2093.3	2041.4	2002.5	1980.8
7.5°	2342.0	2311.6	2279.3	2218.7	2140.8	2106.2	1980.8	1838.1	1799.2	1764.6	1742.9
10°	2337.6	2303.0	2257.6	2166.8	1983.0	1922.5	1797.0	1704.0	1680.2	1673.8	1680.2
12.5°	2322.5	2290.1	2227.4	2076.0	1818.7	1777.5	1704.0	1650.0	1645.6	1656.5	1714.8
15°	2296.6	2266.2	2192.8	1954.9	1727.9	1697.5	1645.6	1626.2	1650.0	1725.6	1900.8
17.5°	2270.6	2236.0	2145.2	1836.0	1658.6	1637.0	1600.2	1639.2	1773.3	1874.8	1933.3
20°	2236.0	2194.9	2091.1	1749.4	1608.9	1589.4	1572.1	1747.3	1848.9	1885.6	1918.1
22.5°	2194.9	2151.6	2017.6	1688.9	1556.9	1541.9	1552.7	1807.9	1848.9	1874.8	1902.9
25°	2140.8	2104.1	1931.1	1641.3	1515.9	1498.6	1539.6	1801.4	1825.2	1831.6	1887.9
27.5°	2091.1	2043.5	1840.2	1598.1	1466.1	1459.6	1550.5	1773.3	1790.6	1797.0	1857.5
30°	2030.6	1959.2	1738.6	1552.7	1414.2	1412.1	1552.7	1738.6	1734.3	1751.6	1812.1
32.5°	1967.9	1833.8	1624.0	1496.5	1364.6	1362.3	1537.5	1686.7	1682.4	1706.2	1751.6
35°	1909.5	1736.5	1468.3	1431.5	1301.8	1304.0	1500.8	1626.2	1628.3	1650.0	1678.1
37.5°	1848.9	1652.1	1297.5	1360.2	1241.3	1241.3	1451.0	1570.0	1565.6	1572.1	1611.0
40°	1777.5	1520.2	1146.1	1267.2	1185.0	1178.6	1390.5	1509.4	1494.2	1492.1	1546.2
42.5°	1701.9	1375.3	1033.6	1144.0	1120.1	1111.5	1316.9	1435.9	1407.8	1414.2	1483.4
45°	1619.7	1336.4	947.2	966.6	1053.2	1046.6	1236.9	1351.5	1332.1	1349.4	1420.7
47.5°	1537.5	1258.6	919.1	802.2	981.8	979.6	1148.2	1269.4	1258.6	1275.9	1351.5
50°	1425.1	1172.1	916.9	687.6	901.8	910.4	1042.3	1189.4	1189.4	1204.5	1284.5
52.5°	1280.2	1066.1	832.6	622.8	808.8	834.7	949.3	1120.1	1124.5	1139.6	1210.9
55°	1148.2	955.8	772.0	573.1	698.5	754.7	858.5	1048.8	1057.4	1072.6	1137.4
57.5°	1027.2	795.8	759.0	514.7	596.8	650.9	778.5	979.6	983.9	996.9	1059.6
60°	897.4	575.2	696.3	452.0	508.2	549.3	704.9	897.4	912.6	921.2	975.3
62.5°	750.4	417.4	631.4	408.7	464.9	473.5	644.5	819.5	839.0	845.5	878.0
65°	534.1	350.3	536.3	372.0	419.5	421.7	579.5	739.5	756.8	767.7	791.5
67.5°	361.2	285.4	408.7	337.3	384.9	387.1	516.8	646.6	670.4	679.0	694.1
70°	250.8	190.3	302.7	300.6	346.0	350.3	449.8	562.2	583.9	590.4	599.0
72.5°	183.8	153.5	250.8	270.3	304.9	309.3	380.6	467.1	488.7	495.2	499.5
75°	140.6	162.2	203.3	235.7	259.5	261.6	311.4	380.6	395.8	400.1	402.2
77.5°	112.5	151.4	149.2	190.3	211.9	207.6	244.4	294.1	307.1	307.1	307.1
80°	84.3	118.9	112.5	136.2	155.7	151.4	175.2	209.8	214.1	218.4	216.2
82.5°	62.7	75.7	75.7	86.5	103.8	99.5	116.8	136.2	136.2	136.2	140.6
85°	38.9	43.3	34.6	45.4	58.4	56.2	64.8	73.5	75.7	75.7	71.4
87.5°	23.8	19.4	10.8	17.3	26.0	26.0	30.2	32.5	30.2	30.2	30.2
90°	6.9	4.8	2.6	4.8	6.9	7.4	11.6	17.2	20.0	17.8	13.3
92.5°	46.3	28.5	10.6	28.5	46.3	50.9	71.5	99.0	112.7	98.7	70.9
95°	90.8	58.0	25.3	58.0	90.8	99.0	175.9	278.3	329.6	294.1	223.1
97.5°	101.6	72.7	43.7	72.7	101.6	108.8	236.9	407.8	493.1	470.7	425.8
100°	110.4	84.2	57.9	84.2	110.4	117.0	259.1	448.7	543.4	545.0	548.3
102.5°	119.0	94.6	70.0	94.6	119.0	125.2	269.3	461.5	557.6	586.2	643.3
105°	132.1	111.4	90.7	111.4	132.1	137.3	276.8	463.0	556.0	620.1	748.1
107.5°	150.3	131.0	111.7	131.0	150.3	155.1	278.3	442.4	524.4	613.7	792.4
110°	160.8	143.3	125.9	143.3	160.8	165.1	276.1	424.1	498.1	597.9	797.7



TEST NUMBER: P934571

CATALOG NUMBER: SQ4-FA-050U-125D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	173.1	156.5	139.9	156.5	173.1	177.3	276.2	408.2	474.1	576.4	780.8
115°	191.6	176.3	160.9	176.3	191.6	195.4	278.8	389.9	445.4	543.9	740.8
117.5°	209.6	195.7	181.7	195.7	209.6	213.1	284.0	378.5	425.7	514.5	692.2
120°	220.1	207.0	193.8	207.0	220.1	223.4	288.1	374.5	417.7	498.9	661.3
122.5°	232.2	219.0	205.8	219.0	232.2	235.5	294.2	372.5	411.7	484.8	631.1
125°	248.0	235.9	223.9	235.9	248.0	251.0	302.4	370.9	405.1	467.2	591.5
127.5°	263.0	250.8	238.6	250.8	263.0	266.1	310.6	369.9	399.6	452.9	559.5
130°	272.8	259.7	246.6	259.7	272.8	276.0	316.5	370.4	397.5	444.9	539.9
132.5°	281.0	267.9	254.7	267.9	281.0	284.2	321.4	370.9	395.7	438.2	523.1
135°	290.7	278.8	266.8	278.8	290.7	293.7	326.7	370.5	392.5	428.1	499.3
137.5°	302.8	291.0	279.2	291.0	302.8	305.8	334.5	372.8	391.9	422.0	482.1
140°	311.2	300.4	289.5	300.4	311.2	314.0	339.4	373.2	390.1	416.1	468.1
142.5°	317.5	307.4	297.3	307.4	317.5	320.0	343.4	374.5	390.1	413.0	458.5
145°	327.1	318.3	309.5	318.3	327.1	329.3	348.7	374.5	387.5	406.1	443.5
147.5°	338.8	330.2	321.6	330.2	338.8	340.9	356.4	377.1	387.5	402.1	431.5
150°	345.0	337.3	329.6	337.3	345.0	346.9	360.5	378.5	387.5	399.9	424.7
152.5°	349.4	343.5	337.6	343.5	349.4	350.9	363.0	379.3	387.5	398.1	419.3
155°	358.4	354.2	349.8	354.2	358.4	359.5	368.8	381.3	387.5	395.9	412.8
157.5°	367.2	363.0	358.8	363.0	367.2	368.2	374.6	383.2	387.5	394.0	407.2
160°	371.3	368.1	364.8	368.1	371.3	372.2	377.3	384.1	387.5	393.1	404.4
162.5°	375.8	373.3	370.9	373.3	375.8	376.4	380.1	385.0	387.5	392.3	401.7
165°	381.9	379.7	377.4	379.7	381.9	382.5	384.2	386.4	387.5	390.9	397.6
167.5°	385.6	384.5	383.5	384.5	385.6	385.9	387.3	389.2	390.1	392.3	396.8
170°	389.6	388.5	387.5	388.5	389.6	389.9	390.0	390.0	390.1	392.3	396.8
172.5°	390.0	389.9	389.6	389.9	390.0	390.1	390.1	390.1	390.1	391.8	395.3
175°	392.5	392.5	392.5	392.5	392.5	392.5	391.7	390.6	390.1	391.2	393.5
177.5°	392.5	392.5	392.5	392.5	392.5	392.5	391.9	391.1	390.6	391.5	393.3
180°	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5



TEST NUMBER: P934571  
 CATALOG NUMBER: SQ4-FA-050U-125D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2205.7	2199.3	2207.9	2184.1	2207.9	2199.3	2205.7	2220.8	2207.9	2216.6	2225.2
5°	1935.4	1924.6	1890.0	1861.9	1890.0	1924.6	1935.4	1980.8	2002.5	2041.4	2093.3
7.5°	1730.0	1721.3	1712.7	1695.4	1712.7	1721.3	1730.0	1742.9	1764.6	1799.2	1838.1
10°	1684.6	1686.7	1699.7	1697.5	1699.7	1686.7	1684.6	1680.2	1673.8	1680.2	1704.0
12.5°	1801.4	1820.8	1892.2	1887.9	1892.2	1820.8	1801.4	1714.8	1656.5	1645.6	1650.0
15°	1935.4	1941.9	1957.0	1959.2	1957.0	1941.9	1935.4	1900.8	1725.6	1650.0	1626.2
17.5°	1948.4	1950.6	1961.4	1961.4	1961.4	1950.6	1948.4	1933.3	1874.8	1773.3	1639.2
20°	1937.6	1941.9	1963.5	1967.9	1963.5	1941.9	1937.6	1918.1	1885.6	1848.9	1747.3
22.5°	1933.3	1941.9	1959.2	1957.0	1959.2	1941.9	1933.3	1902.9	1874.8	1848.9	1807.9
25°	1911.6	1911.6	1913.8	1916.0	1913.8	1911.6	1911.6	1887.9	1831.6	1825.2	1801.4
27.5°	1866.2	1870.6	1883.5	1881.4	1883.5	1870.6	1866.2	1857.5	1797.0	1790.6	1773.3
30°	1825.2	1820.8	1810.0	1801.4	1810.0	1820.8	1825.2	1812.1	1751.6	1734.3	1738.6
32.5°	1756.0	1745.2	1734.3	1727.9	1734.3	1745.2	1756.0	1751.6	1706.2	1682.4	1686.7
35°	1673.8	1675.9	1673.8	1667.3	1673.8	1675.9	1673.8	1678.1	1650.0	1628.3	1626.2
37.5°	1615.4	1619.7	1617.5	1608.9	1617.5	1619.7	1615.4	1611.0	1572.1	1565.6	1570.0
40°	1554.8	1556.9	1554.8	1548.3	1554.8	1556.9	1554.8	1546.2	1492.1	1494.2	1509.4
42.5°	1496.5	1494.2	1487.8	1483.4	1487.8	1494.2	1496.5	1483.4	1414.2	1407.8	1435.9
45°	1429.4	1431.5	1418.6	1412.1	1418.6	1431.5	1429.4	1420.7	1349.4	1332.1	1351.5
47.5°	1362.3	1362.3	1351.5	1345.1	1351.5	1362.3	1362.3	1351.5	1275.9	1258.6	1269.4
50°	1291.0	1288.8	1273.7	1271.5	1273.7	1288.8	1291.0	1284.5	1204.5	1189.4	1189.4
52.5°	1208.8	1208.8	1210.9	1215.3	1210.9	1208.8	1208.8	1210.9	1139.6	1124.5	1120.1
55°	1137.4	1139.6	1154.8	1159.1	1154.8	1139.6	1137.4	1137.4	1072.6	1057.4	1048.8
57.5°	1064.0	1064.0	1074.7	1074.7	1074.7	1064.0	1064.0	1059.6	996.9	983.9	979.6
60°	979.6	983.9	992.6	990.4	992.6	983.9	979.6	975.3	921.2	912.6	897.4
62.5°	890.9	895.3	897.4	893.1	897.4	895.3	890.9	878.0	845.5	839.0	819.5
65°	798.0	802.2	804.5	800.1	804.5	802.2	798.0	791.5	767.7	756.8	739.5
67.5°	702.8	700.6	698.5	707.2	698.5	700.6	702.8	694.1	679.0	670.4	646.6
70°	605.5	605.5	603.3	607.6	603.3	605.5	605.5	599.0	590.4	583.9	562.2
72.5°	501.7	499.5	508.2	501.7	508.2	499.5	501.7	499.5	495.2	488.7	467.1
75°	400.1	404.4	400.1	406.6	400.1	404.4	400.1	402.2	400.1	395.8	380.6
77.5°	304.9	309.3	304.9	304.9	304.9	309.3	304.9	307.1	307.1	307.1	294.1
80°	216.2	214.1	214.1	211.9	214.1	214.1	216.2	216.2	218.4	214.1	209.8
82.5°	138.4	136.2	136.2	140.6	136.2	136.2	138.4	140.6	136.2	136.2	136.2
85°	75.7	77.9	73.5	73.5	73.5	77.9	75.7	71.4	75.7	75.7	73.5
87.5°	28.1	26.0	26.0	26.0	26.0	26.0	28.1	30.2	30.2	30.2	32.5
90°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	13.3	17.8	20.0	17.2
92.5°	50.0	48.1	40.0	32.1	40.0	48.1	50.0	70.9	98.7	112.7	99.0
95°	169.9	163.8	139.7	115.6	139.7	163.8	169.9	223.1	294.1	329.6	278.3
97.5°	392.2	380.7	334.8	289.0	334.8	380.7	392.2	425.8	470.7	493.1	407.8
100°	550.8	537.2	482.5	427.8	482.5	537.2	550.8	548.3	545.0	543.4	448.7
102.5°	686.2	674.5	627.7	580.8	627.7	674.5	686.2	643.3	586.2	557.6	461.5
105°	844.2	837.9	812.8	787.6	812.8	837.9	844.2	748.1	620.1	556.0	463.0
107.5°	926.4	927.9	934.0	940.1	934.0	927.9	926.4	792.4	613.7	524.4	442.4
110°	947.5	954.1	980.2	1006.5	980.2	954.1	947.5	797.7	597.9	498.1	424.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	934.0	944.1	984.4	1024.6	984.4	944.1	934.0	780.8	576.4	474.1	408.2
115°	888.5	902.4	958.2	1014.1	958.2	902.4	888.5	740.8	543.9	445.4	389.9
117.5°	825.5	841.0	902.9	964.9	902.9	841.0	825.5	692.2	514.5	425.7	378.5
120°	783.1	798.2	858.3	918.5	858.3	798.2	783.1	661.3	498.9	417.7	374.5
122.5°	740.7	755.6	814.9	874.2	814.9	755.6	740.7	631.1	484.8	411.7	372.5
125°	684.6	698.2	752.9	807.6	752.9	698.2	684.6	591.5	467.2	405.1	370.9
127.5°	639.5	651.0	697.2	743.4	697.2	651.0	639.5	559.5	452.9	399.6	369.9
130°	611.1	621.8	664.4	707.0	664.4	621.8	611.1	539.9	444.9	397.5	370.4
132.5°	586.9	596.4	634.6	672.7	634.6	596.4	586.9	523.1	438.2	395.7	370.9
135°	552.6	560.9	593.8	626.6	593.8	560.9	552.6	499.3	428.1	392.5	370.5
137.5°	527.3	534.0	561.0	588.0	561.0	534.0	527.3	482.1	422.0	391.9	372.8
140°	507.0	513.3	538.5	563.7	538.5	513.3	507.0	468.1	416.1	390.1	373.2
142.5°	492.8	498.2	519.9	541.5	519.9	498.2	492.8	458.5	413.0	390.1	374.5
145°	471.5	475.6	492.0	508.4	492.0	475.6	471.5	443.5	406.1	387.5	374.5
147.5°	453.6	457.0	470.6	484.1	470.6	457.0	453.6	431.5	402.1	387.5	377.1
150°	443.3	446.0	457.1	468.1	457.1	446.0	443.3	424.7	399.9	387.5	378.5
152.5°	435.1	437.2	445.5	453.9	445.5	437.2	435.1	419.3	398.1	387.5	379.3
155°	425.4	426.8	432.3	437.8	432.3	426.8	425.4	412.8	395.9	387.5	381.3
157.5°	417.0	417.9	421.8	425.7	421.8	417.9	417.0	407.2	394.0	387.5	383.2
160°	412.8	413.3	415.5	417.7	415.5	413.3	412.8	404.4	393.1	387.5	384.1
162.5°	408.8	409.3	411.4	413.6	411.4	409.3	408.8	401.7	392.3	387.5	385.0
165°	402.7	403.3	405.6	407.8	405.6	403.3	402.7	397.6	390.9	387.5	386.4
167.5°	400.1	400.4	401.3	402.2	401.3	400.4	400.1	396.8	392.3	390.1	389.2
170°	400.1	400.1	400.1	400.1	400.1	400.1	400.1	396.8	392.3	390.1	390.0
172.5°	398.0	397.8	396.9	396.2	396.9	397.8	398.0	395.3	391.8	390.1	390.1
175°	395.1	395.1	395.1	395.1	395.1	395.1	395.1	393.5	391.2	390.1	390.6
177.5°	394.6	394.3	393.5	392.5	393.5	394.3	394.6	393.3	391.5	390.6	391.1
180°	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2257.6	2268.4	2274.9	2283.6	2305.2
5°	2171.2	2212.2	2225.2	2257.6	2296.6
7.5°	1980.8	2106.2	2140.8	2218.7	2279.3
10°	1797.0	1922.5	1983.0	2166.8	2257.6
12.5°	1704.0	1777.5	1818.7	2076.0	2227.4
15°	1645.6	1697.5	1727.9	1954.9	2192.8
17.5°	1600.2	1637.0	1658.6	1836.0	2145.2
20°	1572.1	1589.4	1608.9	1749.4	2091.1
22.5°	1552.7	1541.9	1556.9	1688.9	2017.6
25°	1539.6	1498.6	1515.9	1641.3	1931.1
27.5°	1550.5	1459.6	1466.1	1598.1	1840.2
30°	1552.7	1412.1	1414.2	1552.7	1738.6
32.5°	1537.5	1362.3	1364.6	1496.5	1624.0
35°	1500.8	1304.0	1301.8	1431.5	1468.3
37.5°	1451.0	1241.3	1241.3	1360.2	1297.5
40°	1390.5	1178.6	1185.0	1267.2	1146.1
42.5°	1316.9	1111.5	1120.1	1144.0	1033.6
45°	1236.9	1046.6	1053.2	966.6	947.2
47.5°	1148.2	979.6	981.8	802.2	919.1
50°	1042.3	910.4	901.8	687.6	916.9
52.5°	949.3	834.7	808.8	622.8	832.6
55°	858.5	754.7	698.5	573.1	772.0
57.5°	778.5	650.9	596.8	514.7	759.0
60°	704.9	549.3	508.2	452.0	696.3
62.5°	644.5	473.5	464.9	408.7	631.4
65°	579.5	421.7	419.5	372.0	536.3
67.5°	516.8	387.1	384.9	337.3	408.7
70°	449.8	350.3	346.0	300.6	302.7
72.5°	380.6	309.3	304.9	270.3	250.8
75°	311.4	261.6	259.5	235.7	203.3
77.5°	244.4	207.6	211.9	190.3	149.2
80°	175.2	151.4	155.7	136.2	112.5
82.5°	116.8	99.5	103.8	86.5	75.7
85°	64.8	56.2	58.4	45.4	34.6
87.5°	30.2	26.0	26.0	17.3	10.8
90°	11.6	7.4	6.9	4.8	2.6
92.5°	71.5	50.9	46.3	28.5	10.6
95°	175.9	99.0	90.8	58.0	25.3
97.5°	236.9	108.8	101.6	72.7	43.7
100°	259.1	117.0	110.4	84.2	57.9
102.5°	269.3	125.2	119.0	94.6	70.0
105°	276.8	137.3	132.1	111.4	90.7
107.5°	278.3	155.1	150.3	131.0	111.7
110°	276.1	165.1	160.8	143.3	125.9



TEST NUMBER: P934571

CATALOG NUMBER: SQ4-FA-050U-125D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	276.2	177.3	173.1	156.5	139.9
115°	278.8	195.4	191.6	176.3	160.9
117.5°	284.0	213.1	209.6	195.7	181.7
120°	288.1	223.4	220.1	207.0	193.8
122.5°	294.2	235.5	232.2	219.0	205.8
125°	302.4	251.0	248.0	235.9	223.9
127.5°	310.6	266.1	263.0	250.8	238.6
130°	316.5	276.0	272.8	259.7	246.6
132.5°	321.4	284.2	281.0	267.9	254.7
135°	326.7	293.7	290.7	278.8	266.8
137.5°	334.5	305.8	302.8	291.0	279.2
140°	339.4	314.0	311.2	300.4	289.5
142.5°	343.4	320.0	317.5	307.4	297.3
145°	348.7	329.3	327.1	318.3	309.5
147.5°	356.4	340.9	338.8	330.2	321.6
150°	360.5	346.9	345.0	337.3	329.6
152.5°	363.0	350.9	349.4	343.5	337.6
155°	368.8	359.5	358.4	354.2	349.8
157.5°	374.6	368.2	367.2	363.0	358.8
160°	377.3	372.2	371.3	368.1	364.8
162.5°	380.1	376.4	375.8	373.3	370.9
165°	384.2	382.5	381.9	379.7	377.4
167.5°	387.3	385.9	385.6	384.5	383.5
170°	390.0	389.9	389.6	388.5	387.5
172.5°	390.1	390.1	390.0	389.9	389.6
175°	391.7	392.5	392.5	392.5	392.5
177.5°	391.9	392.5	392.5	392.5	392.5
180°	392.5	392.5	392.5	392.5	392.5



TEST NUMBER: P934571  
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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	15.67	16.75	16.44	17.53	18.49	18.50	19.57	19.26	20.36	21.31
	3H	16.17	17.13	16.94	17.93	18.91	19.86	20.82	20.64	21.62	22.60
	4H	16.37	17.28	17.16	18.08	19.08	20.31	21.22	21.11	22.03	23.02
	6H	16.50	17.34	17.31	18.15	19.16	20.60	21.44	21.41	22.26	23.27
	8H	16.50	17.30	17.32	18.14	19.15	20.68	21.48	21.50	22.32	23.33
	12H	16.48	17.25	17.31	18.07	19.11	20.73	21.49	21.55	22.32	23.36
4H	2H	16.73	17.64	17.53	18.45	19.44	18.93	19.84	19.73	20.65	21.64
	3H	17.78	18.54	18.59	19.37	20.39	20.46	21.22	21.27	22.05	23.07
	4H	18.06	18.75	18.89	19.59	20.63	20.99	21.68	21.82	22.52	23.56
	6H	18.20	18.80	19.04	19.66	20.70	21.37	21.97	22.21	22.83	23.87
	8H	18.21	18.77	19.06	19.62	20.68	21.48	22.04	22.33	22.89	23.95
	12H	18.19	18.69	19.05	19.57	20.63	21.55	22.05	22.41	22.93	23.99
8H	4H	18.53	19.09	19.38	19.95	21.00	21.13	21.69	21.98	22.55	23.61
	6H	18.80	19.26	19.68	20.16	21.22	21.58	22.04	22.45	22.94	24.00
	8H	18.85	19.26	19.73	20.15	21.23	21.73	22.14	22.62	23.04	24.11
	12H	18.84	19.20	19.73	20.09	21.22	21.84	22.20	22.73	23.08	24.21
12H	4H	18.55	19.05	19.41	19.93	20.99	21.11	21.61	21.98	22.49	23.55
	6H	18.86	19.27	19.75	20.17	21.24	21.58	21.99	22.46	22.88	23.96
	8H	18.94	19.30	19.83	20.19	21.32	21.75	22.11	22.64	22.99	24.12