

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: P934564

Luminaire Tested: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934564
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-93050-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

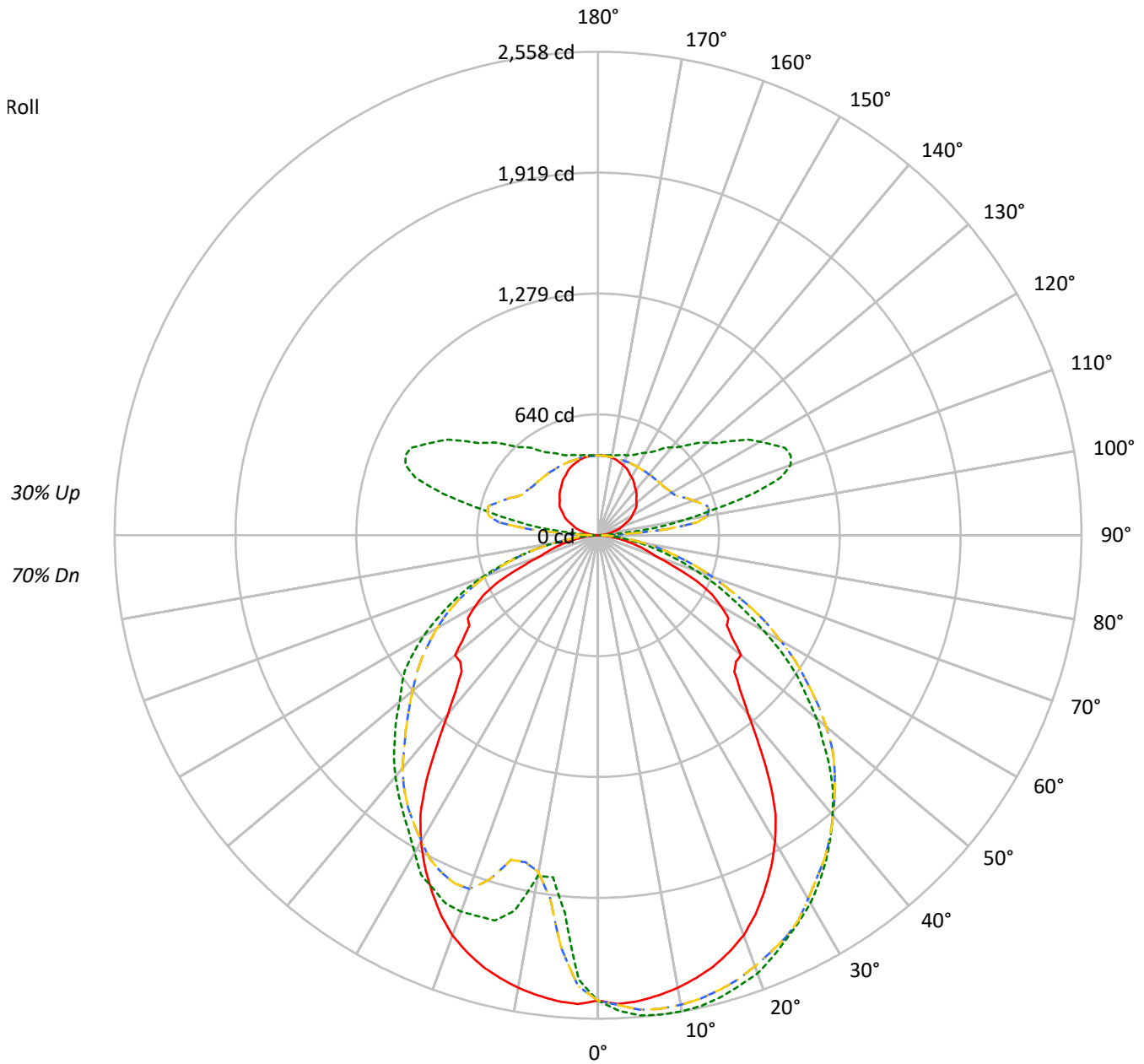
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9125.6 lumens
Efficiency: N/A
Efficacy: 108.6 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): 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			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	70	
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	59	
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	50	
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	42	
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	36	
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	31	
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	27	
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	24	
8	57	44	36	30	54	42	35	29	38	32	28	35	29	26	31	27	24	24	22	
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	19	
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	18	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15230	15230	15230	15230
5°	15338	15374	15338	12088
10°	15230	15144	15230	10827
15°	15059	14816	15059	12371
20°	14739	14428	14739	12398
25°	14088	13861	14088	12135
30°	13249	13390	13249	11559
35°	11806	12795	11806	10924
40°	9832	12094	9832	10445
45°	8779	11274	8779	9895
50°	9320	10295	9320	9342
55°	8759	9240	8759	9022
60°	9019	7848	9019	8263
65°	8164	6488	8164	7252
70°	5640	5171	5640	6079
75°	4928	3822	4928	4577
80°	3942	2526	3942	2751
85°	2224	1337	2224	1138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13463 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	2.4
10°-20°	631.0	6.9
20°-30°	975.4	10.7
30°-40°	1164.4	12.8
40°-50°	1171.2	12.8
50°-60°	1019.1	11.2
60°-70°	722.6	7.9
70°-80°	382.3	4.2
80°-90°	96.8	1.1
90°-100°	206.1	2.3
100°-110°	541.8	5.9
110°-120°	561.8	6.2
120°-130°	450.6	4.9
130°-140°	353.5	3.9
140°-150°	271.4	3.0
150°-160°	195.4	2.1
160°-170°	119.6	1.3
170°-180°	40.4	0.4
0°-30°	1828.6	20.0
0°-40°	2993.0	32.8
0°-60°	5183.4	56.8
0°-90°	6385.1	70.0
90°-120°	1309.6	14.4
90°-150°	2385.1	26.1
90°-180°	2740.0	30.0
0°-180°	9125.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2462	2462	2462	2462	2462	
5°	2474	2550	2474	2005	2474	235
15°	2362	2527	2362	2110	2362	665
25°	2080	2357	2080	2064	2080	955
35°	1582	2103	1582	1796	1582	978
45°	1020	1733	1020	1521	1020	817
55°	832	1279	832	1248	832	764
65°	578	771	578	862	578	552
75°	219	366	219	438	219	230
85°	37	93	37	79	37	50
90°	3	11	3	11	3	4
95°	27	124	27	124	27	30
105°	98	848	98	848	98	103
115°	173	1092	173	1092	173	171
125°	241	870	241	870	241	214
135°	287	675	287	675	287	222
145°	333	548	333	548	333	209
155°	377	472	377	472	377	173
165°	406	439	406	439	406	115
175°	423	426	423	426	423	40
180°	423	423	423	423	423	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0
2.5°	2482.9	2482.9	2497.0	2501.5	2501.5	2494.6	2487.6	2494.6	2515.6	2522.6	2520.2
5°	2473.6	2492.3	2517.9	2522.6	2527.2	2524.9	2520.2	2524.9	2548.2	2552.8	2555.1
7.5°	2455.0	2489.9	2522.6	2529.5	2536.5	2529.5	2527.2	2531.8	2555.1	2559.8	2559.8
10°	2431.7	2480.6	2517.9	2522.6	2529.5	2522.6	2522.6	2531.8	2555.1	2559.8	2562.1
12.5°	2399.1	2466.7	2501.5	2506.2	2515.6	2513.2	2510.9	2520.2	2543.5	2548.2	2548.2
15°	2361.9	2441.0	2473.6	2478.3	2494.6	2489.9	2489.9	2499.3	2524.9	2531.8	2529.5
17.5°	2310.6	2408.4	2445.7	2452.6	2464.3	2462.0	2464.3	2473.6	2497.0	2501.5	2503.9
20°	2252.4	2364.2	2408.4	2415.4	2427.0	2427.0	2427.0	2438.7	2462.0	2471.3	2471.3
22.5°	2173.2	2317.5	2364.2	2368.8	2382.8	2382.8	2387.5	2403.7	2424.7	2427.0	2427.0
25°	2080.0	2266.3	2305.9	2319.9	2333.9	2340.9	2347.8	2357.2	2364.2	2361.9	2364.2
27.5°	1982.1	2201.1	2252.4	2261.7	2280.3	2287.3	2296.6	2298.9	2301.3	2308.3	2303.6
30°	1872.6	2110.2	2187.1	2196.4	2226.7	2231.4	2222.1	2226.7	2238.3	2243.0	2247.7
32.5°	1749.2	1975.2	2119.6	2140.5	2168.5	2154.6	2152.2	2159.2	2177.8	2177.8	2182.5
35°	1581.6	1870.4	2056.7	2075.4	2096.3	2080.0	2089.3	2091.6	2103.3	2110.2	2107.9
37.5°	1397.6	1779.5	1991.5	2005.4	2021.8	2000.8	2014.8	2021.8	2031.0	2026.5	2026.5
40°	1234.5	1637.4	1914.6	1923.9	1937.9	1921.6	1935.6	1940.3	1944.9	1940.3	1937.9
42.5°	1113.3	1481.3	1833.1	1844.8	1835.4	1847.0	1851.7	1861.1	1854.0	1844.8	1844.8
45°	1020.2	1439.5	1744.5	1758.6	1744.5	1763.3	1770.2	1770.2	1749.2	1744.5	1742.2
47.5°	989.9	1355.6	1656.1	1656.1	1649.1	1672.4	1684.1	1667.7	1646.7	1639.7	1639.7
50°	987.6	1262.5	1534.9	1525.7	1558.2	1586.2	1574.6	1558.2	1541.9	1516.3	1516.3
52.5°	896.8	1148.3	1378.9	1413.8	1465.1	1481.3	1462.7	1446.5	1418.5	1406.8	1397.6
55°	831.5	1029.5	1236.8	1306.7	1360.3	1381.2	1346.3	1330.0	1288.1	1281.1	1276.4
57.5°	817.6	857.1	1106.4	1194.9	1260.1	1257.8	1236.8	1206.5	1171.6	1164.6	1162.3
60°	750.0	619.5	966.6	1071.4	1139.0	1132.0	1113.3	1085.4	1052.8	1048.2	1043.5
62.5°	680.1	449.6	808.2	927.1	1022.5	1020.2	1003.9	961.9	938.7	927.1	917.7
65°	577.7	377.4	575.3	771.0	908.4	913.0	878.1	847.9	822.3	808.2	805.9
67.5°	440.2	307.4	389.0	642.8	798.9	794.3	750.0	736.0	703.4	696.4	682.5
70°	326.1	205.0	270.2	521.7	691.8	680.1	645.2	628.9	598.6	582.3	573.0
72.5°	270.2	165.4	197.9	405.3	582.3	568.3	538.0	519.4	493.8	479.9	470.5
75°	219.0	174.7	151.4	300.5	472.8	463.5	435.5	416.9	396.0	377.4	379.7
77.5°	160.7	163.1	121.1	221.3	375.0	361.0	344.7	321.5	312.1	293.5	293.5
80°	121.1	128.1	90.9	151.4	270.2	270.2	256.2	239.9	223.6	214.3	214.3
82.5°	81.5	81.5	67.5	95.5	184.0	177.0	167.7	163.1	153.7	149.0	149.0
85°	37.3	46.6	41.9	58.3	100.1	104.8	104.8	100.1	97.8	93.1	95.5
87.5°	11.7	20.9	25.6	32.6	51.2	53.6	55.9	55.9	55.9	58.3	58.3
90°	2.8	5.1	7.4	8.0	12.5	18.5	21.6	19.2	14.3	10.7	10.7
92.5°	11.4	30.7	49.9	54.8	77.0	106.6	121.4	106.4	76.4	53.9	51.8
95°	27.3	62.5	97.8	106.6	189.4	299.8	355.0	316.8	240.3	183.0	176.5
97.5°	47.1	78.3	109.4	117.2	255.2	439.2	531.2	507.0	458.7	422.4	410.0
100°	62.4	90.7	118.9	126.0	279.1	483.3	585.3	587.0	590.6	593.3	578.6
102.5°	75.4	101.9	128.2	134.8	290.1	497.1	600.6	631.4	693.0	739.1	726.5
105°	97.6	119.9	142.2	147.8	298.2	498.7	598.9	667.9	805.8	909.3	902.6
107.5°	120.3	141.1	161.9	167.1	299.7	476.5	564.8	661.0	853.5	997.8	999.5
110°	135.6	154.4	173.2	177.8	297.4	456.8	536.5	644.0	859.2	1020.6	1027.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	150.7	168.6	186.5	191.0	297.5	439.7	510.7	620.8	841.0	1006.1	1016.9
115°	173.4	189.9	206.4	210.5	300.3	419.9	479.8	585.9	797.9	957.0	972.0
117.5°	195.7	210.8	225.8	229.5	305.9	407.6	458.5	554.2	745.6	889.2	905.9
120°	208.8	222.9	237.0	240.6	310.4	403.4	449.9	537.4	712.3	843.5	859.7
122.5°	221.6	235.8	250.1	253.7	316.9	401.2	443.4	522.2	679.7	797.8	813.8
125°	241.2	254.1	267.1	270.4	325.7	399.5	436.4	503.3	637.1	737.4	752.1
127.5°	257.0	270.2	283.3	286.6	334.5	398.5	430.4	487.8	602.7	688.8	701.2
130°	265.6	279.7	293.8	297.3	340.9	399.0	428.1	479.2	581.5	658.3	669.7
132.5°	274.4	288.5	302.7	306.1	346.2	399.5	426.2	472.0	563.5	632.1	642.4
135°	287.4	300.3	313.1	316.3	351.8	399.1	422.8	461.1	537.8	595.2	604.1
137.5°	300.7	313.5	326.1	329.4	360.3	401.5	422.1	454.5	519.3	568.0	575.2
140°	311.8	323.6	335.2	338.2	365.5	402.0	420.2	448.2	504.2	546.1	552.9
142.5°	320.3	331.1	341.9	344.7	369.8	403.4	420.2	444.8	493.9	530.8	536.7
145°	333.4	342.9	352.3	354.7	375.6	403.4	417.4	437.5	477.7	507.9	512.3
147.5°	346.4	355.6	364.9	367.2	383.9	406.2	417.4	433.2	464.8	488.6	492.3
150°	355.0	363.3	371.6	373.7	388.3	407.6	417.4	430.8	457.5	477.5	480.4
152.5°	363.7	370.0	376.3	377.9	391.0	408.6	417.4	428.7	451.6	468.7	470.9
155°	376.8	381.5	386.1	387.3	397.3	410.7	417.4	426.5	444.6	458.2	459.7
157.5°	386.4	390.9	395.5	396.6	403.5	412.8	417.4	424.4	438.6	449.1	450.1
160°	393.0	396.4	399.9	400.8	406.4	413.7	417.4	423.4	435.5	444.6	445.2
162.5°	399.5	402.1	404.8	405.4	409.4	414.7	417.4	422.5	432.7	440.3	440.9
165°	406.5	408.9	411.3	412.0	413.8	416.2	417.4	421.0	428.3	433.8	434.4
167.5°	413.1	414.2	415.3	415.6	417.2	419.2	420.2	422.6	427.4	430.9	431.2
170°	417.4	418.5	419.7	419.9	420.0	420.1	420.2	422.6	427.4	430.9	430.9
172.5°	419.7	419.9	420.1	420.2	420.2	420.2	420.2	422.0	425.8	428.7	428.5
175°	422.8	422.8	422.8	422.8	422.0	420.8	420.2	421.4	423.8	425.5	425.5
177.5°	422.8	422.8	422.8	422.8	422.1	421.2	420.8	421.7	423.6	425.0	424.7
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0
2.5°	2524.9	2517.9	2524.9	2520.2	2522.6	2515.6	2494.6	2487.6	2494.6	2501.5	2501.5
5°	2555.1	2550.5	2555.1	2555.1	2552.8	2548.2	2524.9	2520.2	2524.9	2527.2	2522.6
7.5°	2564.5	2557.5	2564.5	2559.8	2559.8	2555.1	2531.8	2527.2	2529.5	2536.5	2529.5
10°	2564.5	2557.5	2564.5	2562.1	2559.8	2555.1	2531.8	2522.6	2522.6	2529.5	2522.6
12.5°	2552.8	2548.2	2552.8	2548.2	2548.2	2543.5	2520.2	2510.9	2513.2	2515.6	2506.2
15°	2534.2	2527.2	2534.2	2529.5	2531.8	2524.9	2499.3	2489.9	2489.9	2494.6	2478.3
17.5°	2506.2	2497.0	2506.2	2503.9	2501.5	2497.0	2473.6	2464.3	2462.0	2464.3	2452.6
20°	2473.6	2466.7	2473.6	2471.3	2471.3	2462.0	2438.7	2427.0	2427.0	2427.0	2415.4
22.5°	2422.3	2415.4	2422.3	2427.0	2427.0	2424.7	2403.7	2387.5	2382.8	2382.8	2368.8
25°	2364.2	2357.2	2364.2	2364.2	2361.9	2364.2	2357.2	2347.8	2340.9	2333.9	2319.9
27.5°	2308.3	2303.6	2308.3	2303.6	2308.3	2301.3	2298.9	2296.6	2287.3	2280.3	2261.7
30°	2252.4	2247.7	2252.4	2247.7	2243.0	2238.3	2226.7	2222.1	2231.4	2226.7	2196.4
32.5°	2182.5	2177.8	2182.5	2182.5	2177.8	2177.8	2159.2	2152.2	2154.6	2168.5	2140.5
35°	2110.2	2103.3	2110.2	2107.9	2110.2	2103.3	2091.6	2089.3	2080.0	2096.3	2075.4
37.5°	2026.5	2019.4	2026.5	2026.5	2026.5	2031.0	2021.8	2014.8	2000.8	2021.8	2005.4
40°	1940.3	1930.9	1940.3	1937.9	1940.3	1944.9	1940.3	1935.6	1921.6	1937.9	1923.9
42.5°	1842.5	1840.1	1842.5	1844.8	1844.8	1854.0	1861.1	1851.7	1847.0	1835.4	1844.8
45°	1737.6	1733.0	1737.6	1742.2	1744.5	1749.2	1770.2	1770.2	1763.3	1744.5	1758.6
47.5°	1625.8	1614.1	1625.8	1639.7	1639.7	1646.7	1667.7	1684.1	1672.4	1649.1	1656.1
50°	1507.0	1509.3	1507.0	1516.3	1516.3	1541.9	1558.2	1574.6	1586.2	1558.2	1525.7
52.5°	1390.6	1388.2	1390.6	1397.6	1406.8	1418.5	1446.5	1462.7	1481.3	1465.1	1413.8
55°	1274.0	1278.7	1274.0	1276.4	1281.1	1288.1	1330.0	1346.3	1381.2	1360.3	1306.7
57.5°	1157.6	1150.6	1157.6	1162.3	1164.6	1171.6	1206.5	1236.8	1257.8	1260.1	1194.9
60°	1022.5	1013.2	1022.5	1043.5	1048.2	1052.8	1085.4	1113.3	1132.0	1139.0	1071.4
62.5°	903.7	887.4	903.7	917.7	927.1	938.7	961.9	1003.9	1020.2	1022.5	927.1
65°	777.9	771.0	777.9	805.9	808.2	822.3	847.9	878.1	913.0	908.4	771.0
67.5°	663.9	663.9	663.9	682.5	696.4	703.4	736.0	750.0	794.3	798.9	642.8
70°	559.0	556.7	559.0	573.0	582.3	598.6	628.9	645.2	680.1	691.8	521.7
72.5°	458.8	456.6	458.8	470.5	479.9	493.8	519.4	538.0	568.3	582.3	405.3
75°	370.4	365.7	370.4	379.7	377.4	396.0	416.9	435.5	463.5	472.8	300.5
77.5°	284.2	284.2	284.2	293.5	293.5	312.1	321.5	344.7	361.0	375.0	221.3
80°	212.0	209.6	212.0	214.3	214.3	223.6	239.9	256.2	270.2	270.2	151.4
82.5°	149.0	144.4	149.0	149.0	149.0	153.7	163.1	167.7	177.0	184.0	95.5
85°	93.1	93.1	93.1	95.5	93.1	97.8	100.1	104.8	104.8	100.1	58.3
87.5°	60.6	58.3	60.6	58.3	58.3	55.9	55.9	55.9	53.6	51.2	32.6
90°	10.7	10.7	10.7	10.7	10.7	14.3	19.2	21.6	18.5	12.5	8.0
92.5°	43.1	34.6	43.1	51.8	53.9	76.4	106.4	121.4	106.6	77.0	54.8
95°	150.5	124.5	150.5	176.5	183.0	240.3	316.8	355.0	299.8	189.4	106.6
97.5°	360.7	311.3	360.7	410.0	422.4	458.7	507.0	531.2	439.2	255.2	117.2
100°	519.7	460.8	519.7	578.6	593.3	590.6	587.0	585.3	483.3	279.1	126.0
102.5°	676.1	625.6	676.1	726.5	739.1	693.0	631.4	600.6	497.1	290.1	134.8
105°	875.5	848.3	875.5	902.6	909.3	805.8	667.9	598.9	498.7	298.2	147.8
107.5°	1006.0	1012.6	1006.0	999.5	997.8	853.5	661.0	564.8	476.5	299.7	167.1
110°	1055.8	1084.1	1055.8	1027.6	1020.6	859.2	644.0	536.5	456.8	297.4	177.8



TEST NUMBER: P934564

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1060.3	1103.6	1060.3	1016.9	1006.1	841.0	620.8	510.7	439.7	297.5	191.0
115°	1032.1	1092.3	1032.1	972.0	957.0	797.9	585.9	479.8	419.9	300.3	210.5
117.5°	972.6	1039.3	972.6	905.9	889.2	745.6	554.2	458.5	407.6	305.9	229.5
120°	924.5	989.4	924.5	859.7	843.5	712.3	537.4	449.9	403.4	310.4	240.6
122.5°	877.8	941.6	877.8	813.8	797.8	679.7	522.2	443.4	401.2	316.9	253.7
125°	811.0	869.9	811.0	752.1	737.4	637.1	503.3	436.4	399.5	325.7	270.4
127.5°	750.9	800.7	750.9	701.2	688.8	602.7	487.8	430.4	398.5	334.5	286.6
130°	715.6	761.5	715.6	669.7	658.3	581.5	479.2	428.1	399.0	340.9	297.3
132.5°	683.5	724.6	683.5	642.4	632.1	563.5	472.0	426.2	399.5	346.2	306.1
135°	639.5	675.0	639.5	604.1	595.2	537.8	461.1	422.8	399.1	351.8	316.3
137.5°	604.3	633.3	604.3	575.2	568.0	519.3	454.5	422.1	401.5	360.3	329.4
140°	580.0	607.1	580.0	552.9	546.1	504.2	448.2	420.2	402.0	365.5	338.2
142.5°	560.0	583.3	560.0	536.7	530.8	493.9	444.8	420.2	403.4	369.8	344.7
145°	530.0	547.6	530.0	512.3	507.9	477.7	437.5	417.4	403.4	375.6	354.7
147.5°	506.8	521.4	506.8	492.3	488.6	464.8	433.2	417.4	406.2	383.9	367.2
150°	492.3	504.2	492.3	480.4	477.5	457.5	430.8	417.4	407.6	388.3	373.7
152.5°	479.9	488.9	479.9	470.9	468.7	451.6	428.7	417.4	408.6	391.0	377.9
155°	465.6	471.5	465.6	459.7	458.2	444.6	426.5	417.4	410.7	397.3	387.3
157.5°	454.4	458.5	454.4	450.1	449.1	438.6	424.4	417.4	412.8	403.5	396.6
160°	447.6	449.9	447.6	445.2	444.6	435.5	423.4	417.4	413.7	406.4	400.8
162.5°	443.2	445.4	443.2	440.9	440.3	432.7	422.5	417.4	414.7	409.4	405.4
165°	436.8	439.2	436.8	434.4	433.8	428.3	421.0	417.4	416.2	413.8	412.0
167.5°	432.2	433.2	432.2	431.2	430.9	427.4	422.6	420.2	419.2	417.2	415.6
170°	430.9	430.9	430.9	430.9	430.9	427.4	422.6	420.2	420.1	420.0	419.9
172.5°	427.6	426.7	427.6	428.5	428.7	425.8	422.0	420.2	420.2	420.2	420.2
175°	425.5	425.5	425.5	425.5	425.5	423.8	421.4	420.2	420.8	422.0	422.8
177.5°	423.8	422.8	423.8	424.7	425.0	423.6	421.7	420.8	421.2	422.1	422.8
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P934564

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0
2.5°	2497.0	2482.9	2482.9	2459.7	2450.3	2443.4	2431.7	2396.7	2387.5	2378.1	2392.1
5°	2517.9	2492.3	2473.6	2431.7	2396.7	2382.8	2338.6	2254.7	2198.8	2156.9	2133.5
7.5°	2522.6	2489.9	2455.0	2389.8	2305.9	2268.6	2133.5	1979.8	1937.9	1900.6	1877.3
10°	2517.9	2480.6	2431.7	2333.9	2135.9	2070.7	1935.6	1835.4	1809.8	1802.8	1809.8
12.5°	2501.5	2466.7	2399.1	2236.1	1958.9	1914.6	1835.4	1777.2	1772.5	1784.2	1847.0
15°	2473.6	2441.0	2361.9	2105.7	1861.1	1828.4	1772.5	1751.6	1777.2	1858.7	2047.4
17.5°	2445.7	2408.4	2310.6	1977.5	1786.5	1763.3	1723.6	1765.6	1910.0	2019.4	2082.3
20°	2408.4	2364.2	2252.4	1884.3	1733.0	1712.0	1693.3	1882.0	1991.5	2031.0	2066.0
22.5°	2364.2	2317.5	2173.2	1819.1	1677.0	1660.8	1672.4	1947.3	1991.5	2019.4	2049.7
25°	2305.9	2266.3	2080.0	1767.8	1632.8	1614.1	1658.4	1940.3	1965.9	1972.9	2033.4
27.5°	2252.4	2201.1	1982.1	1721.3	1579.2	1572.2	1670.0	1910.0	1928.6	1935.6	2000.8
30°	2187.1	2110.2	1872.6	1672.4	1523.3	1521.0	1672.4	1872.6	1868.1	1886.7	1951.8
32.5°	2119.6	1975.2	1749.2	1611.8	1469.8	1467.4	1656.1	1816.8	1812.2	1837.8	1886.7
35°	2056.7	1870.4	1581.6	1541.9	1402.1	1404.5	1616.5	1751.6	1753.9	1777.2	1807.5
37.5°	1991.5	1779.5	1397.6	1465.1	1337.0	1337.0	1562.9	1691.0	1686.4	1693.3	1735.3
40°	1914.6	1637.4	1234.5	1364.9	1276.4	1269.4	1497.7	1625.8	1609.5	1607.2	1665.4
42.5°	1833.1	1481.3	1113.3	1232.2	1206.5	1197.2	1418.5	1546.6	1516.3	1523.3	1597.8
45°	1744.5	1439.5	1020.2	1041.1	1134.4	1127.3	1332.3	1455.7	1434.8	1453.4	1530.3
47.5°	1656.1	1355.6	989.9	864.1	1057.5	1055.2	1236.8	1367.3	1355.6	1374.2	1455.7
50°	1534.9	1262.5	987.6	740.7	971.3	980.6	1122.7	1281.1	1281.1	1297.3	1383.5
52.5°	1378.9	1148.3	896.8	670.8	871.2	899.1	1022.5	1206.5	1211.2	1227.5	1304.3
55°	1236.8	1029.5	831.5	617.2	752.3	812.9	924.7	1129.7	1139.0	1155.3	1225.1
57.5°	1106.4	857.1	817.6	554.4	642.8	701.1	838.5	1055.2	1059.8	1073.8	1141.3
60°	966.6	619.5	750.0	486.8	547.4	591.6	759.3	966.6	982.9	992.2	1050.5
62.5°	808.2	449.6	680.1	440.2	500.8	510.1	694.1	882.7	903.7	910.7	945.7
65°	575.3	377.4	577.7	400.7	451.9	454.2	624.2	796.6	815.2	826.8	852.5
67.5°	389.0	307.4	440.2	363.3	414.6	416.9	556.7	696.4	722.0	731.4	747.6
70°	270.2	205.0	326.1	323.8	372.7	377.4	484.5	605.6	628.9	635.9	645.2
72.5°	197.9	165.4	270.2	291.2	328.4	333.1	409.9	503.1	526.4	533.4	538.0
75°	151.4	174.7	219.0	253.9	279.5	281.8	335.4	409.9	426.3	430.9	433.2
77.5°	121.1	163.1	160.7	205.0	228.2	223.6	263.2	316.8	330.7	330.7	330.7
80°	90.9	128.1	121.1	146.7	167.7	163.1	188.7	225.9	230.6	235.2	232.9
82.5°	67.5	81.5	81.5	93.1	111.8	107.2	125.8	146.7	146.7	146.7	151.4
85°	41.9	46.6	37.3	48.9	62.9	60.6	69.8	79.2	81.5	81.5	76.9
87.5°	25.6	20.9	11.7	18.6	28.0	28.0	32.6	35.0	32.6	32.6	32.6
90°	7.4	5.1	2.8	5.1	7.4	8.0	12.5	18.5	21.6	19.2	14.3
92.5°	49.9	30.7	11.4	30.7	49.9	54.8	77.0	106.6	121.4	106.4	76.4
95°	97.8	62.5	27.3	62.5	97.8	106.6	189.4	299.8	355.0	316.8	240.3
97.5°	109.4	78.3	47.1	78.3	109.4	117.2	255.2	439.2	531.2	507.0	458.7
100°	118.9	90.7	62.4	90.7	118.9	126.0	279.1	483.3	585.3	587.0	590.6
102.5°	128.2	101.9	75.4	101.9	128.2	134.8	290.1	497.1	600.6	631.4	693.0
105°	142.2	119.9	97.6	119.9	142.2	147.8	298.2	498.7	598.9	667.9	805.8
107.5°	161.9	141.1	120.3	141.1	161.9	167.1	299.7	476.5	564.8	661.0	853.5
110°	173.2	154.4	135.6	154.4	173.2	177.8	297.4	456.8	536.5	644.0	859.2



TEST NUMBER: P934564

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	186.5	168.6	150.7	168.6	186.5	191.0	297.5	439.7	510.7	620.8	841.0
115°	206.4	189.9	173.4	189.9	206.4	210.5	300.3	419.9	479.8	585.9	797.9
117.5°	225.8	210.8	195.7	210.8	225.8	229.5	305.9	407.6	458.5	554.2	745.6
120°	237.0	222.9	208.8	222.9	237.0	240.6	310.4	403.4	449.9	537.4	712.3
122.5°	250.1	235.8	221.6	235.8	250.1	253.7	316.9	401.2	443.4	522.2	679.7
125°	267.1	254.1	241.2	254.1	267.1	270.4	325.7	399.5	436.4	503.3	637.1
127.5°	283.3	270.2	257.0	270.2	283.3	286.6	334.5	398.5	430.4	487.8	602.7
130°	293.8	279.7	265.6	279.7	293.8	297.3	340.9	399.0	428.1	479.2	581.5
132.5°	302.7	288.5	274.4	288.5	302.7	306.1	346.2	399.5	426.2	472.0	563.5
135°	313.1	300.3	287.4	300.3	313.1	316.3	351.8	399.1	422.8	461.1	537.8
137.5°	326.1	313.5	300.7	313.5	326.1	329.4	360.3	401.5	422.1	454.5	519.3
140°	335.2	323.6	311.8	323.6	335.2	338.2	365.5	402.0	420.2	448.2	504.2
142.5°	341.9	331.1	320.3	331.1	341.9	344.7	369.8	403.4	420.2	444.8	493.9
145°	352.3	342.9	333.4	342.9	352.3	354.7	375.6	403.4	417.4	437.5	477.7
147.5°	364.9	355.6	346.4	355.6	364.9	367.2	383.9	406.2	417.4	433.2	464.8
150°	371.6	363.3	355.0	363.3	371.6	373.7	388.3	407.6	417.4	430.8	457.5
152.5°	376.3	370.0	363.7	370.0	376.3	377.9	391.0	408.6	417.4	428.7	451.6
155°	386.1	381.5	376.8	381.5	386.1	387.3	397.3	410.7	417.4	426.5	444.6
157.5°	395.5	390.9	386.4	390.9	395.5	396.6	403.5	412.8	417.4	424.4	438.6
160°	399.9	396.4	393.0	396.4	399.9	400.8	406.4	413.7	417.4	423.4	435.5
162.5°	404.8	402.1	399.5	402.1	404.8	405.4	409.4	414.7	417.4	422.5	432.7
165°	411.3	408.9	406.5	408.9	411.3	412.0	413.8	416.2	417.4	421.0	428.3
167.5°	415.3	414.2	413.1	414.2	415.3	415.6	417.2	419.2	420.2	422.6	427.4
170°	419.7	418.5	417.4	418.5	419.7	419.9	420.0	420.1	420.2	422.6	427.4
172.5°	420.1	419.9	419.7	419.9	420.1	420.2	420.2	420.2	420.2	422.0	425.8
175°	422.8	422.8	422.8	422.8	422.8	422.8	422.0	420.8	420.2	421.4	423.8
177.5°	422.8	422.8	422.8	422.8	422.8	422.8	422.1	421.2	420.8	421.7	423.6
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P934564

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0
2.5°	2375.8	2368.8	2378.1	2352.5	2378.1	2368.8	2375.8	2392.1	2378.1	2387.5	2396.7
5°	2084.6	2073.0	2035.7	2005.4	2035.7	2073.0	2084.6	2133.5	2156.9	2198.8	2254.7
7.5°	1863.4	1854.0	1844.8	1826.1	1844.8	1854.0	1863.4	1877.3	1900.6	1937.9	1979.8
10°	1814.5	1816.8	1830.8	1828.4	1830.8	1816.8	1814.5	1809.8	1802.8	1809.8	1835.4
12.5°	1940.3	1961.2	2038.1	2033.4	2038.1	1961.2	1940.3	1847.0	1784.2	1772.5	1777.2
15°	2084.6	2091.6	2107.9	2110.2	2107.9	2091.6	2084.6	2047.4	1858.7	1777.2	1751.6
17.5°	2098.6	2101.0	2112.6	2112.6	2112.6	2101.0	2098.6	2082.3	2019.4	1910.0	1765.6
20°	2087.0	2091.6	2114.9	2119.6	2114.9	2091.6	2087.0	2066.0	2031.0	1991.5	1882.0
22.5°	2082.3	2091.6	2110.2	2107.9	2110.2	2091.6	2082.3	2049.7	2019.4	1991.5	1947.3
25°	2059.0	2059.0	2061.3	2063.7	2061.3	2059.0	2059.0	2033.4	1972.9	1965.9	1940.3
27.5°	2010.1	2014.8	2028.7	2026.5	2028.7	2014.8	2010.1	2000.8	1935.6	1928.6	1910.0
30°	1965.9	1961.2	1949.6	1940.3	1949.6	1961.2	1965.9	1951.8	1886.7	1868.1	1872.6
32.5°	1891.4	1879.7	1868.1	1861.1	1868.1	1879.7	1891.4	1886.7	1837.8	1812.2	1816.8
35°	1802.8	1805.1	1802.8	1795.8	1802.8	1805.1	1802.8	1807.5	1777.2	1753.9	1751.6
37.5°	1739.9	1744.5	1742.2	1733.0	1742.2	1744.5	1739.9	1735.3	1693.3	1686.4	1691.0
40°	1674.7	1677.0	1674.7	1667.7	1674.7	1677.0	1674.7	1665.4	1607.2	1609.5	1625.8
42.5°	1611.8	1609.5	1602.5	1597.8	1602.5	1609.5	1611.8	1597.8	1523.3	1516.3	1546.6
45°	1539.6	1541.9	1528.0	1521.0	1528.0	1541.9	1539.6	1530.3	1453.4	1434.8	1455.7
47.5°	1467.4	1467.4	1455.7	1448.8	1455.7	1467.4	1467.4	1455.7	1374.2	1355.6	1367.3
50°	1390.6	1388.2	1372.0	1369.6	1372.0	1388.2	1390.6	1383.5	1297.3	1281.1	1281.1
52.5°	1302.0	1302.0	1304.3	1309.0	1304.3	1302.0	1302.0	1304.3	1227.5	1211.2	1206.5
55°	1225.1	1227.5	1243.8	1248.4	1243.8	1227.5	1225.1	1225.1	1155.3	1139.0	1129.7
57.5°	1146.0	1146.0	1157.6	1157.6	1157.6	1146.0	1146.0	1141.3	1073.8	1059.8	1055.2
60°	1055.2	1059.8	1069.1	1066.8	1069.1	1059.8	1055.2	1050.5	992.2	982.9	966.6
62.5°	959.6	964.3	966.6	961.9	966.6	964.3	959.6	945.7	910.7	903.7	882.7
65°	859.5	864.1	866.5	861.8	866.5	864.1	859.5	852.5	826.8	815.2	796.6
67.5°	757.0	754.6	752.3	761.7	752.3	754.6	757.0	747.6	731.4	722.0	696.4
70°	652.2	652.2	649.8	654.5	649.8	652.2	652.2	645.2	635.9	628.9	605.6
72.5°	540.3	538.0	547.4	540.3	547.4	538.0	540.3	538.0	533.4	526.4	503.1
75°	430.9	435.5	430.9	437.9	430.9	435.5	430.9	433.2	430.9	426.3	409.9
77.5°	328.4	333.1	328.4	328.4	328.4	333.1	328.4	330.7	330.7	330.7	316.8
80°	232.9	230.6	230.6	228.2	230.6	230.6	232.9	232.9	235.2	230.6	225.9
82.5°	149.0	146.7	146.7	151.4	146.7	146.7	149.0	151.4	146.7	146.7	146.7
85°	81.5	83.9	79.2	79.2	79.2	83.9	81.5	76.9	81.5	81.5	79.2
87.5°	30.3	28.0	28.0	28.0	28.0	28.0	30.3	32.6	32.6	32.6	35.0
90°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	14.3	19.2	21.6	18.5
92.5°	53.9	51.8	43.1	34.6	43.1	51.8	53.9	76.4	106.4	121.4	106.6
95°	183.0	176.5	150.5	124.5	150.5	176.5	183.0	240.3	316.8	355.0	299.8
97.5°	422.4	410.0	360.7	311.3	360.7	410.0	422.4	458.7	507.0	531.2	439.2
100°	593.3	578.6	519.7	460.8	519.7	578.6	593.3	590.6	587.0	585.3	483.3
102.5°	739.1	726.5	676.1	625.6	676.1	726.5	739.1	693.0	631.4	600.6	497.1
105°	909.3	902.6	875.5	848.3	875.5	902.6	909.3	805.8	667.9	598.9	498.7
107.5°	997.8	999.5	1006.0	1012.6	1006.0	999.5	997.8	853.5	661.0	564.8	476.5
110°	1020.6	1027.6	1055.8	1084.1	1055.8	1027.6	1020.6	859.2	644.0	536.5	456.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1006.1	1016.9	1060.3	1103.6	1060.3	1016.9	1006.1	841.0	620.8	510.7	439.7
115°	957.0	972.0	1032.1	1092.3	1032.1	972.0	957.0	797.9	585.9	479.8	419.9
117.5°	889.2	905.9	972.6	1039.3	972.6	905.9	889.2	745.6	554.2	458.5	407.6
120°	843.5	859.7	924.5	989.4	924.5	859.7	843.5	712.3	537.4	449.9	403.4
122.5°	797.8	813.8	877.8	941.6	877.8	813.8	797.8	679.7	522.2	443.4	401.2
125°	737.4	752.1	811.0	869.9	811.0	752.1	737.4	637.1	503.3	436.4	399.5
127.5°	688.8	701.2	750.9	800.7	750.9	701.2	688.8	602.7	487.8	430.4	398.5
130°	658.3	669.7	715.6	761.5	715.6	669.7	658.3	581.5	479.2	428.1	399.0
132.5°	632.1	642.4	683.5	724.6	683.5	642.4	632.1	563.5	472.0	426.2	399.5
135°	595.2	604.1	639.5	675.0	639.5	604.1	595.2	537.8	461.1	422.8	399.1
137.5°	568.0	575.2	604.3	633.3	604.3	575.2	568.0	519.3	454.5	422.1	401.5
140°	546.1	552.9	580.0	607.1	580.0	552.9	546.1	504.2	448.2	420.2	402.0
142.5°	530.8	536.7	560.0	583.3	560.0	536.7	530.8	493.9	444.8	420.2	403.4
145°	507.9	512.3	530.0	547.6	530.0	512.3	507.9	477.7	437.5	417.4	403.4
147.5°	488.6	492.3	506.8	521.4	506.8	492.3	488.6	464.8	433.2	417.4	406.2
150°	477.5	480.4	492.3	504.2	492.3	480.4	477.5	457.5	430.8	417.4	407.6
152.5°	468.7	470.9	479.9	488.9	479.9	470.9	468.7	451.6	428.7	417.4	408.6
155°	458.2	459.7	465.6	471.5	465.6	459.7	458.2	444.6	426.5	417.4	410.7
157.5°	449.1	450.1	454.4	458.5	454.4	450.1	449.1	438.6	424.4	417.4	412.8
160°	444.6	445.2	447.6	449.9	447.6	445.2	444.6	435.5	423.4	417.4	413.7
162.5°	440.3	440.9	443.2	445.4	443.2	440.9	440.3	432.7	422.5	417.4	414.7
165°	433.8	434.4	436.8	439.2	436.8	434.4	433.8	428.3	421.0	417.4	416.2
167.5°	430.9	431.2	432.2	433.2	432.2	431.2	430.9	427.4	422.6	420.2	419.2
170°	430.9	430.9	430.9	430.9	430.9	430.9	430.9	427.4	422.6	420.2	420.1
172.5°	428.7	428.5	427.6	426.7	427.6	428.5	428.7	425.8	422.0	420.2	420.2
175°	425.5	425.5	425.5	425.5	425.5	425.5	425.5	423.8	421.4	420.2	420.8
177.5°	425.0	424.7	423.8	422.8	423.8	424.7	425.0	423.6	421.7	420.8	421.2
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2462.0	2462.0	2462.0	2462.0	2462.0
2.5°	2431.7	2443.4	2450.3	2459.7	2482.9
5°	2338.6	2382.8	2396.7	2431.7	2473.6
7.5°	2133.5	2268.6	2305.9	2389.8	2455.0
10°	1935.6	2070.7	2135.9	2333.9	2431.7
12.5°	1835.4	1914.6	1958.9	2236.1	2399.1
15°	1772.5	1828.4	1861.1	2105.7	2361.9
17.5°	1723.6	1763.3	1786.5	1977.5	2310.6
20°	1693.3	1712.0	1733.0	1884.3	2252.4
22.5°	1672.4	1660.8	1677.0	1819.1	2173.2
25°	1658.4	1614.1	1632.8	1767.8	2080.0
27.5°	1670.0	1572.2	1579.2	1721.3	1982.1
30°	1672.4	1521.0	1523.3	1672.4	1872.6
32.5°	1656.1	1467.4	1469.8	1611.8	1749.2
35°	1616.5	1404.5	1402.1	1541.9	1581.6
37.5°	1562.9	1337.0	1337.0	1465.1	1397.6
40°	1497.7	1269.4	1276.4	1364.9	1234.5
42.5°	1418.5	1197.2	1206.5	1232.2	1113.3
45°	1332.3	1127.3	1134.4	1041.1	1020.2
47.5°	1236.8	1055.2	1057.5	864.1	989.9
50°	1122.7	980.6	971.3	740.7	987.6
52.5°	1022.5	899.1	871.2	670.8	896.8
55°	924.7	812.9	752.3	617.2	831.5
57.5°	838.5	701.1	642.8	554.4	817.6
60°	759.3	591.6	547.4	486.8	750.0
62.5°	694.1	510.1	500.8	440.2	680.1
65°	624.2	454.2	451.9	400.7	577.7
67.5°	556.7	416.9	414.6	363.3	440.2
70°	484.5	377.4	372.7	323.8	326.1
72.5°	409.9	333.1	328.4	291.2	270.2
75°	335.4	281.8	279.5	253.9	219.0
77.5°	263.2	223.6	228.2	205.0	160.7
80°	188.7	163.1	167.7	146.7	121.1
82.5°	125.8	107.2	111.8	93.1	81.5
85°	69.8	60.6	62.9	48.9	37.3
87.5°	32.6	28.0	28.0	18.6	11.7
90°	12.5	8.0	7.4	5.1	2.8
92.5°	77.0	54.8	49.9	30.7	11.4
95°	189.4	106.6	97.8	62.5	27.3
97.5°	255.2	117.2	109.4	78.3	47.1
100°	279.1	126.0	118.9	90.7	62.4
102.5°	290.1	134.8	128.2	101.9	75.4
105°	298.2	147.8	142.2	119.9	97.6
107.5°	299.7	167.1	161.9	141.1	120.3
110°	297.4	177.8	173.2	154.4	135.6



TEST NUMBER: P934564

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	297.5	191.0	186.5	168.6	150.7
115°	300.3	210.5	206.4	189.9	173.4
117.5°	305.9	229.5	225.8	210.8	195.7
120°	310.4	240.6	237.0	222.9	208.8
122.5°	316.9	253.7	250.1	235.8	221.6
125°	325.7	270.4	267.1	254.1	241.2
127.5°	334.5	286.6	283.3	270.2	257.0
130°	340.9	297.3	293.8	279.7	265.6
132.5°	346.2	306.1	302.7	288.5	274.4
135°	351.8	316.3	313.1	300.3	287.4
137.5°	360.3	329.4	326.1	313.5	300.7
140°	365.5	338.2	335.2	323.6	311.8
142.5°	369.8	344.7	341.9	331.1	320.3
145°	375.6	354.7	352.3	342.9	333.4
147.5°	383.9	367.2	364.9	355.6	346.4
150°	388.3	373.7	371.6	363.3	355.0
152.5°	391.0	377.9	376.3	370.0	363.7
155°	397.3	387.3	386.1	381.5	376.8
157.5°	403.5	396.6	395.5	390.9	386.4
160°	406.4	400.8	399.9	396.4	393.0
162.5°	409.4	405.4	404.8	402.1	399.5
165°	413.8	412.0	411.3	408.9	406.5
167.5°	417.2	415.6	415.3	414.2	413.1
170°	420.0	419.9	419.7	418.5	417.4
172.5°	420.2	420.2	420.1	419.9	419.7
175°	422.0	422.8	422.8	422.8	422.8
177.5°	422.1	422.8	422.8	422.8	422.8
180°	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P934564
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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	15.93	17.01	16.70	17.79	18.75	18.76	19.83	19.52	20.62	21.57
	3H	16.42	17.39	17.20	18.19	19.17	20.12	21.08	20.89	21.88	22.86
	4H	16.63	17.54	17.42	18.34	19.34	20.57	21.48	21.36	22.28	23.28
	6H	16.76	17.60	17.56	18.41	19.42	20.86	21.70	21.67	22.52	23.53
	8H	16.76	17.56	17.58	18.40	19.41	20.94	21.74	21.76	22.58	23.59
	12H	16.74	17.50	17.56	18.33	19.37	20.99	21.75	21.81	22.58	23.61
4H	2H	16.99	17.90	17.79	18.70	19.70	19.19	20.10	19.99	20.91	21.90
	3H	18.03	18.79	18.85	19.63	20.65	20.71	21.47	21.53	22.31	23.33
	4H	18.32	19.01	19.15	19.85	20.89	21.25	21.94	22.08	22.78	23.82
	6H	18.46	19.05	19.30	19.92	20.96	21.63	22.22	22.47	23.09	24.13
	8H	18.47	19.03	19.31	19.88	20.94	21.74	22.29	22.58	23.15	24.21
	12H	18.45	18.95	19.31	19.83	20.89	21.80	22.30	22.67	23.18	24.25
8H	4H	18.79	19.35	19.64	20.20	21.26	21.39	21.95	22.24	22.81	23.87
	6H	19.06	19.52	19.93	20.42	21.48	21.84	22.30	22.71	23.20	24.26
	8H	19.10	19.51	19.99	20.41	21.48	21.99	22.40	22.87	23.29	24.37
	12H	19.10	19.46	19.99	20.35	21.47	22.10	22.46	22.98	23.34	24.47
12H	4H	18.81	19.31	19.67	20.19	21.25	21.37	21.87	22.23	22.75	23.81
	6H	19.12	19.53	20.01	20.43	21.50	21.83	22.25	22.72	23.14	24.21
	8H	19.20	19.56	20.09	20.45	21.57	22.01	22.37	22.89	23.25	24.38