

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: P933927

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

**Test Information**

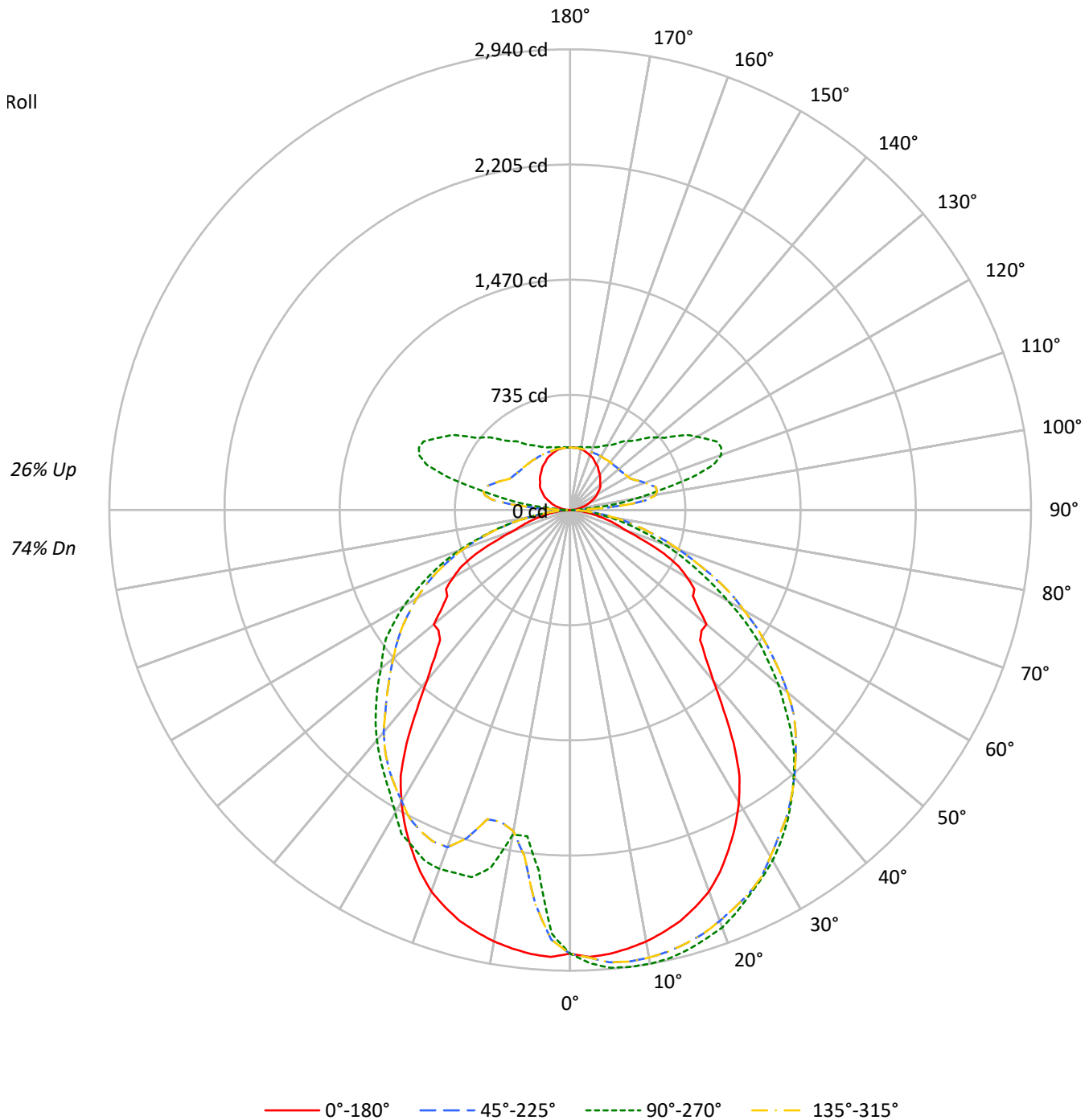
Test Method: LM-79-2019  
Report Number: P933927  
REPORT IS A COMBINATION OF REPORTS P933677 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-12-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9931.2 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 90  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

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

	0°	90°	180°	270°
0°	8755	8755	8755	8755
5°	8824	8838	8824	6949
10°	8768	8706	8768	6224
15°	8676	8517	8676	7112
20°	8498	8294	8498	7127
25°	8130	7968	8130	6976
30°	7653	7697	7653	6644
35°	6826	7355	6826	6280
40°	5691	6952	5691	6004
45°	5088	6480	5088	5688
50°	5410	5918	5410	5370
55°	5095	5312	5095	5186
60°	5258	4512	5258	4750
65°	4775	3730	4775	4169
70°	3315	2972	3315	3495
75°	2917	2197	2917	2631
80°	2368	1452	2368	1581
85°	1387	769	1387	654

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7793 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.5	2.6
10°-20°	725.5	7.3
20°-30°	1121.4	11.3
30°-40°	1338.7	13.5
40°-50°	1346.6	13.6
50°-60°	1171.7	11.8
60°-70°	830.7	8.4
70°-80°	439.5	4.4
80°-90°	111.0	1.1
90°-100°	194.8	2.0
100°-110°	512.1	5.2
110°-120°	531.0	5.3
120°-130°	426.0	4.3
130°-140°	334.2	3.4
140°-150°	256.5	2.6
150°-160°	184.7	1.9
160°-170°	113.0	1.1
170°-180°	38.2	0.4
0°-30°	2102.4	21.2
0°-40°	3441.1	34.6
0°-60°	5959.3	60.0
0°-90°	7340.6	73.9
90°-120°	1238.0	12.5
90°-150°	2254.7	22.7
90°-180°	2591.0	26.1
0°-180°	9931.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2831	2831	2831	2831	2831	
5°	2844	2932	2844	2306	2844	270
15°	2715	2906	2715	2426	2715	764
25°	2391	2710	2391	2373	2391	1098
35°	1818	2418	1818	2065	1818	1125
45°	1173	1992	1173	1749	1173	940
55°	956	1470	956	1435	956	878
65°	664	886	664	991	664	635
75°	252	420	252	503	252	265
85°	43	107	43	91	43	58
90°	3	10	3	10	3	4
95°	26	118	26	118	26	29
105°	92	802	92	802	92	98
115°	164	1033	164	1033	164	162
125°	228	822	228	822	228	202
135°	272	638	272	638	272	210
145°	315	518	315	518	315	197
155°	356	446	356	446	356	164
165°	384	415	384	415	384	108
175°	400	402	400	402	400	38
180°	400	400	400	400	400	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2854.7	2854.7	2870.8	2876.1	2876.1	2868.1	2860.0	2868.1	2892.2	2900.2	2897.5
5°	2844.0	2865.4	2894.9	2900.2	2905.6	2902.9	2897.5	2902.9	2929.7	2935.0	2937.7
7.5°	2822.6	2862.7	2900.2	2908.2	2916.3	2908.2	2905.6	2910.9	2937.7	2943.1	2943.1
10°	2795.8	2852.0	2894.9	2900.2	2908.2	2900.2	2900.2	2910.9	2937.7	2943.1	2945.7
12.5°	2758.3	2835.9	2876.1	2881.5	2892.2	2889.5	2886.8	2897.5	2924.3	2929.7	2929.7
15°	2715.4	2806.5	2844.0	2849.3	2868.1	2862.7	2862.7	2873.4	2902.9	2910.9	2908.2
17.5°	2656.5	2769.0	2811.8	2819.9	2833.3	2830.6	2833.3	2844.0	2870.8	2876.1	2878.8
20°	2589.6	2718.1	2769.0	2777.0	2790.4	2790.4	2790.4	2803.8	2830.6	2841.3	2841.3
22.5°	2498.5	2664.6	2718.1	2723.5	2739.5	2739.5	2744.9	2763.6	2787.7	2790.4	2790.4
25°	2391.4	2605.6	2651.2	2667.2	2683.3	2691.3	2699.4	2710.1	2718.1	2715.4	2718.1
27.5°	2278.9	2530.7	2589.6	2600.3	2621.7	2629.7	2640.5	2643.1	2645.8	2653.8	2648.5
30°	2153.0	2426.2	2514.6	2525.3	2560.1	2565.5	2554.8	2560.1	2573.5	2578.9	2584.2
32.5°	2011.1	2270.8	2436.9	2461.0	2493.2	2477.1	2474.4	2482.5	2503.9	2503.9	2509.2
35°	1818.3	2150.3	2364.6	2386.1	2410.2	2391.4	2402.1	2404.8	2418.2	2426.2	2423.6
37.5°	1606.7	2045.9	2289.6	2305.6	2324.4	2300.3	2316.3	2324.4	2335.1	2329.7	2329.7
40°	1419.3	1882.5	2201.2	2211.9	2228.0	2209.2	2225.3	2230.7	2236.0	2230.7	2228.0
42.5°	1280.0	1703.1	2107.5	2120.9	2110.2	2123.5	2128.9	2139.6	2131.6	2120.9	2120.9
45°	1172.9	1654.9	2005.7	2021.8	2005.7	2027.1	2035.2	2035.2	2011.1	2005.7	2003.0
47.5°	1138.1	1558.5	1904.0	1904.0	1895.9	1922.7	1936.1	1917.3	1893.2	1885.2	1885.2
50°	1135.4	1451.4	1764.7	1754.0	1791.5	1823.6	1810.2	1791.5	1772.7	1743.3	1743.3
52.5°	1031.0	1320.2	1585.3	1625.5	1684.4	1703.1	1681.7	1663.0	1630.8	1617.4	1606.7
55°	956.0	1183.6	1421.9	1502.3	1563.9	1588.0	1547.8	1529.1	1480.9	1472.8	1467.5
57.5°	939.9	985.5	1272.0	1373.7	1448.7	1446.0	1421.9	1387.1	1347.0	1338.9	1336.3
60°	862.3	712.3	1111.3	1231.8	1309.5	1301.4	1280.0	1247.9	1210.4	1205.0	1199.7
62.5°	781.9	516.8	929.2	1065.8	1175.6	1172.9	1154.2	1106.0	1079.2	1065.8	1055.1
65°	664.1	433.8	661.4	886.4	1044.4	1049.7	1009.6	974.7	945.3	929.2	926.5
67.5°	506.1	353.5	447.2	739.1	918.5	913.2	862.3	846.2	808.7	800.7	784.6
70°	374.9	235.7	310.6	599.8	795.3	781.9	741.8	723.0	688.2	669.5	658.8
72.5°	310.6	190.1	227.6	465.9	669.5	653.4	618.6	597.2	567.7	551.6	540.9
75°	251.7	200.8	174.1	345.4	543.6	532.9	500.8	479.3	455.2	433.8	436.5
77.5°	184.8	187.5	139.2	254.4	431.1	415.1	396.3	369.5	358.8	337.4	337.4
80°	139.2	147.3	104.4	174.1	310.6	310.6	294.6	275.8	257.1	246.4	246.4
82.5°	93.7	93.7	77.7	109.8	211.6	203.5	192.8	187.5	176.7	171.4	171.4
85°	42.8	53.6	48.2	66.9	115.1	120.5	120.5	115.1	112.5	107.1	109.8
87.5°	13.4	24.1	29.5	37.5	58.9	61.6	64.3	64.3	64.3	66.9	66.9
90°	2.7	4.8	7.0	7.5	11.8	17.5	20.4	18.1	13.6	10.2	10.2
92.5°	10.7	28.9	47.2	51.8	72.7	100.8	114.8	100.6	72.2	51.0	48.9
95°	25.7	59.1	92.5	100.9	179.1	283.4	335.5	299.4	227.2	173.0	166.8
97.5°	44.5	74.0	103.5	110.8	241.2	415.2	502.1	479.2	433.6	399.4	387.7
100°	59.0	85.7	112.4	119.1	263.9	456.8	553.3	555.0	558.3	560.8	546.9
102.5°	71.3	96.2	121.1	127.4	274.2	470.0	567.8	596.9	655.0	698.7	686.7
105°	92.3	113.4	134.4	139.7	281.9	471.4	566.2	631.4	761.8	859.6	853.2
107.5°	113.7	133.4	153.1	158.0	283.3	450.4	534.0	624.9	806.8	943.3	944.8
110°	128.2	145.9	163.7	168.2	281.2	431.8	507.2	608.9	812.2	964.7	971.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	142.5	159.3	176.3	180.5	281.3	415.6	482.8	586.9	795.0	951.1	961.4
115°	163.9	179.5	195.1	199.1	283.9	396.9	453.5	553.8	754.3	904.7	918.9
117.5°	185.0	199.2	213.4	217.0	289.1	385.3	433.5	524.0	704.9	840.6	856.4
120°	197.4	210.7	224.1	227.4	293.4	381.3	425.3	508.0	673.4	797.4	812.7
122.5°	209.5	223.0	236.4	239.8	299.6	379.3	419.2	493.6	642.5	754.2	769.3
125°	228.0	240.3	252.6	255.6	308.0	377.7	412.5	475.7	602.2	697.0	711.0
127.5°	243.0	255.4	267.8	270.9	316.3	376.7	406.9	461.1	569.8	651.2	662.9
130°	251.0	264.4	277.8	281.1	322.3	377.2	404.7	453.1	549.8	622.2	633.1
132.5°	259.4	272.7	286.1	289.4	327.2	377.7	402.8	446.1	532.7	597.6	607.3
135°	271.7	283.9	296.0	299.0	332.6	377.3	399.6	435.9	508.3	562.7	571.1
137.5°	284.3	296.3	308.3	311.3	340.6	379.6	399.1	429.7	490.9	536.9	543.8
140°	294.7	305.8	317.0	319.7	345.5	380.0	397.2	423.6	476.6	516.3	522.7
142.5°	302.8	313.0	323.3	325.9	349.6	381.3	397.2	420.4	466.9	501.8	507.4
145°	315.2	324.1	333.0	335.3	355.0	381.3	394.5	413.6	451.6	480.1	484.2
147.5°	327.5	336.2	344.9	347.1	362.9	384.0	394.5	409.5	439.4	461.8	465.3
150°	335.5	343.4	351.2	353.2	367.0	385.3	394.5	407.2	432.5	451.4	454.2
152.5°	343.8	349.8	355.7	357.2	369.6	386.2	394.5	405.3	426.9	443.1	445.2
155°	356.2	360.5	365.0	366.1	375.5	388.2	394.5	403.1	420.3	433.2	434.6
157.5°	365.3	369.5	373.9	375.0	381.5	390.2	394.5	401.2	414.5	424.5	425.5
160°	371.5	374.8	378.2	379.0	384.2	391.1	394.5	400.3	411.7	420.2	420.8
162.5°	377.7	380.2	382.7	383.3	387.0	392.0	394.5	399.4	409.0	416.2	416.8
165°	384.4	386.6	388.9	389.5	391.1	393.4	394.5	398.0	404.9	410.1	410.6
167.5°	390.5	391.6	392.7	392.9	394.4	396.2	397.2	399.4	404.0	407.4	407.7
170°	394.5	395.6	396.7	396.9	397.0	397.1	397.2	399.4	404.0	407.4	407.4
172.5°	396.7	396.9	397.1	397.2	397.2	397.2	397.2	399.0	402.6	405.2	405.1
175°	399.6	399.6	399.6	399.6	398.8	397.8	397.2	398.4	400.6	402.3	402.3
177.5°	399.6	399.6	399.6	399.6	399.0	398.2	397.8	398.6	400.4	401.8	401.5
180°	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2902.9	2894.9	2902.9	2897.5	2900.2	2892.2	2868.1	2860.0	2868.1	2876.1	2876.1
5°	2937.7	2932.3	2937.7	2937.7	2935.0	2929.7	2902.9	2897.5	2902.9	2905.6	2900.2
7.5°	2948.4	2940.4	2948.4	2943.1	2943.1	2937.7	2910.9	2905.6	2908.2	2916.3	2908.2
10°	2948.4	2940.4	2948.4	2945.7	2943.1	2937.7	2910.9	2900.2	2900.2	2908.2	2900.2
12.5°	2935.0	2929.7	2935.0	2929.7	2929.7	2924.3	2897.5	2886.8	2889.5	2892.2	2881.5
15°	2913.6	2905.6	2913.6	2908.2	2910.9	2902.9	2873.4	2862.7	2862.7	2868.1	2849.3
17.5°	2881.5	2870.8	2881.5	2878.8	2876.1	2870.8	2844.0	2833.3	2830.6	2833.3	2819.9
20°	2844.0	2835.9	2844.0	2841.3	2841.3	2830.6	2803.8	2790.4	2790.4	2790.4	2777.0
22.5°	2785.1	2777.0	2785.1	2790.4	2790.4	2787.7	2763.6	2744.9	2739.5	2739.5	2723.5
25°	2718.1	2710.1	2718.1	2718.1	2715.4	2718.1	2710.1	2699.4	2691.3	2683.3	2667.2
27.5°	2653.8	2648.5	2653.8	2648.5	2653.8	2645.8	2643.1	2640.5	2629.7	2621.7	2600.3
30°	2589.6	2584.2	2589.6	2584.2	2578.9	2573.5	2560.1	2554.8	2565.5	2560.1	2525.3
32.5°	2509.2	2503.9	2509.2	2509.2	2503.9	2503.9	2482.5	2474.4	2477.1	2493.2	2461.0
35°	2426.2	2418.2	2426.2	2423.6	2426.2	2418.2	2404.8	2402.1	2391.4	2410.2	2386.1
37.5°	2329.7	2321.7	2329.7	2329.7	2329.7	2335.1	2324.4	2316.3	2300.3	2324.4	2305.6
40°	2230.7	2219.9	2230.7	2228.0	2230.7	2236.0	2230.7	2225.3	2209.2	2228.0	2211.9
42.5°	2118.2	2115.5	2118.2	2120.9	2120.9	2131.6	2139.6	2128.9	2123.5	2110.2	2120.9
45°	1997.7	1992.3	1997.7	2003.0	2005.7	2011.1	2035.2	2035.2	2027.1	2005.7	2021.8
47.5°	1869.1	1855.8	1869.1	1885.2	1885.2	1893.2	1917.3	1936.1	1922.7	1895.9	1904.0
50°	1732.6	1735.3	1732.6	1743.3	1743.3	1772.7	1791.5	1810.2	1823.6	1791.5	1754.0
52.5°	1598.7	1596.0	1598.7	1606.7	1617.4	1630.8	1663.0	1681.7	1703.1	1684.4	1625.5
55°	1464.8	1470.1	1464.8	1467.5	1472.8	1480.9	1529.1	1547.8	1588.0	1563.9	1502.3
57.5°	1330.9	1322.9	1330.9	1336.3	1338.9	1347.0	1387.1	1421.9	1446.0	1448.7	1373.7
60°	1175.6	1164.9	1175.6	1199.7	1205.0	1210.4	1247.9	1280.0	1301.4	1309.5	1231.8
62.5°	1039.0	1020.3	1039.0	1055.1	1065.8	1079.2	1106.0	1154.2	1172.9	1175.6	1065.8
65°	894.4	886.4	894.4	926.5	929.2	945.3	974.7	1009.6	1049.7	1044.4	886.4
67.5°	763.2	763.2	763.2	784.6	800.7	808.7	846.2	862.3	913.2	918.5	739.1
70°	642.7	640.0	642.7	658.8	669.5	688.2	723.0	741.8	781.9	795.3	599.8
72.5°	527.5	524.9	527.5	540.9	551.6	567.7	597.2	618.6	653.4	669.5	465.9
75°	425.8	420.4	425.8	436.5	433.8	455.2	479.3	500.8	532.9	543.6	345.4
77.5°	326.7	326.7	326.7	337.4	337.4	358.8	369.5	396.3	415.1	431.1	254.4
80°	243.7	241.0	243.7	246.4	246.4	257.1	275.8	294.6	310.6	310.6	174.1
82.5°	171.4	166.0	171.4	171.4	171.4	176.7	187.5	192.8	203.5	211.6	109.8
85°	107.1	107.1	107.1	109.8	107.1	112.5	115.1	120.5	120.5	115.1	66.9
87.5°	69.6	66.9	69.6	66.9	66.9	64.3	64.3	64.3	61.6	58.9	37.5
90°	10.2	10.2	10.2	10.2	10.2	13.6	18.1	20.4	17.5	11.8	7.5
92.5°	40.9	32.8	40.9	48.9	51.0	72.2	100.6	114.8	100.8	72.7	51.8
95°	142.3	117.7	142.3	166.8	173.0	227.2	299.4	335.5	283.4	179.1	100.9
97.5°	341.0	294.2	341.0	387.7	399.4	433.6	479.2	502.1	415.2	241.2	110.8
100°	491.3	435.6	491.3	546.9	560.8	558.3	555.0	553.3	456.8	263.9	119.1
102.5°	639.0	591.4	639.0	686.7	698.7	655.0	596.9	567.8	470.0	274.2	127.4
105°	827.5	801.9	827.5	853.2	859.6	761.8	631.4	566.2	471.4	281.9	139.7
107.5°	951.1	957.2	951.1	944.8	943.3	806.8	624.9	534.0	450.4	283.3	158.0
110°	998.1	1024.8	998.1	971.4	964.7	812.2	608.9	507.2	431.8	281.2	168.2





TEST NUMBER: P933927

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1002.3	1043.3	1002.3	961.4	951.1	795.0	586.9	482.8	415.6	281.3	180.5
115°	975.7	1032.6	975.7	918.9	904.7	754.3	553.8	453.5	396.9	283.9	199.1
117.5°	919.4	982.4	919.4	856.4	840.6	704.9	524.0	433.5	385.3	289.1	217.0
120°	874.0	935.2	874.0	812.7	797.4	673.4	508.0	425.3	381.3	293.4	227.4
122.5°	829.8	890.2	829.8	769.3	754.2	642.5	493.6	419.2	379.3	299.6	239.8
125°	766.6	822.3	766.6	711.0	697.0	602.2	475.7	412.5	377.7	308.0	255.6
127.5°	709.9	756.9	709.9	662.9	651.2	569.8	461.1	406.9	376.7	316.3	270.9
130°	676.5	719.9	676.5	633.1	622.2	549.8	453.1	404.7	377.2	322.3	281.1
132.5°	646.2	685.0	646.2	607.3	597.6	532.7	446.1	402.8	377.7	327.2	289.4
135°	604.6	638.0	604.6	571.1	562.7	508.3	435.9	399.6	377.3	332.6	299.0
137.5°	571.2	598.7	571.2	543.8	536.9	490.9	429.7	399.1	379.6	340.6	311.3
140°	548.3	574.0	548.3	522.7	516.3	476.6	423.6	397.2	380.0	345.5	319.7
142.5°	529.4	551.5	529.4	507.4	501.8	466.9	420.4	397.2	381.3	349.6	325.9
145°	500.9	517.6	500.9	484.2	480.1	451.6	413.6	394.5	381.3	355.0	335.3
147.5°	479.2	493.0	479.2	465.3	461.8	439.4	409.5	394.5	384.0	362.9	347.1
150°	465.4	476.6	465.4	454.2	451.4	432.5	407.2	394.5	385.3	367.0	353.2
152.5°	453.6	462.1	453.6	445.2	443.1	426.9	405.3	394.5	386.2	369.6	357.2
155°	440.2	445.8	440.2	434.6	433.2	420.3	403.1	394.5	388.2	375.5	366.1
157.5°	429.5	433.5	429.5	425.5	424.5	414.5	401.2	394.5	390.2	381.5	375.0
160°	423.1	425.3	423.1	420.8	420.2	411.7	400.3	394.5	391.1	384.2	379.0
162.5°	418.9	421.0	418.9	416.8	416.2	409.0	399.4	394.5	392.0	387.0	383.3
165°	412.9	415.2	412.9	410.6	410.1	404.9	398.0	394.5	393.4	391.1	389.5
167.5°	408.6	409.5	408.6	407.7	407.4	404.0	399.4	397.2	396.2	394.4	392.9
170°	407.4	407.4	407.4	407.4	407.4	404.0	399.4	397.2	397.1	397.0	396.9
172.5°	404.2	403.4	404.2	405.1	405.2	402.6	399.0	397.2	397.2	397.2	397.2
175°	402.3	402.3	402.3	402.3	402.3	400.6	398.4	397.2	397.8	398.8	399.6
177.5°	400.6	399.6	400.6	401.5	401.8	400.4	398.6	397.8	398.2	399.0	399.6
180°	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6



TEST NUMBER: P933927  
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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2870.8	2854.7	2854.7	2827.9	2817.2	2809.2	2795.8	2755.6	2744.9	2734.2	2750.3
5°	2894.9	2865.4	2844.0	2795.8	2755.6	2739.5	2688.7	2592.3	2528.0	2479.8	2453.0
7.5°	2900.2	2862.7	2822.6	2747.6	2651.2	2608.3	2453.0	2276.2	2228.0	2185.1	2158.4
10°	2894.9	2852.0	2795.8	2683.3	2455.7	2380.7	2225.3	2110.2	2080.7	2072.7	2080.7
12.5°	2876.1	2835.9	2758.3	2570.8	2252.1	2201.2	2110.2	2043.2	2037.9	2051.2	2123.5
15°	2844.0	2806.5	2715.4	2420.9	2139.6	2102.1	2037.9	2013.8	2043.2	2136.9	2353.8
17.5°	2811.8	2769.0	2656.5	2273.5	2053.9	2027.1	1981.6	2029.8	2195.8	2321.7	2394.1
20°	2769.0	2718.1	2589.6	2166.4	1992.3	1968.2	1946.8	2163.7	2289.6	2335.1	2375.4
22.5°	2718.1	2664.6	2498.5	2091.4	1928.1	1909.3	1922.7	2238.7	2289.6	2321.7	2356.5
25°	2651.2	2605.6	2391.4	2032.5	1877.2	1855.8	1906.6	2230.7	2260.1	2268.1	2337.8
27.5°	2589.6	2530.7	2278.9	1978.9	1815.6	1807.6	1920.0	2195.8	2217.3	2225.3	2300.3
30°	2514.6	2426.2	2153.0	1922.7	1751.3	1748.6	1922.7	2153.0	2147.6	2169.1	2244.0
32.5°	2436.9	2270.8	2011.1	1853.1	1689.7	1687.1	1904.0	2088.7	2083.4	2112.8	2169.1
35°	2364.6	2150.3	1818.3	1772.7	1612.1	1614.7	1858.4	2013.8	2016.4	2043.2	2078.0
37.5°	2289.6	2045.9	1606.7	1684.4	1537.1	1537.1	1796.8	1944.1	1938.8	1946.8	1995.0
40°	2201.2	1882.5	1419.3	1569.2	1467.5	1459.4	1721.9	1869.1	1850.4	1847.7	1914.7
42.5°	2107.5	1703.1	1280.0	1416.6	1387.1	1376.4	1630.8	1778.1	1743.3	1751.3	1837.0
45°	2005.7	1654.9	1172.9	1197.0	1304.1	1296.1	1531.7	1673.7	1649.6	1671.0	1759.4
47.5°	1904.0	1558.5	1138.1	993.5	1215.7	1213.1	1421.9	1571.9	1558.5	1579.9	1673.7
50°	1764.7	1451.4	1135.4	851.6	1116.7	1127.4	1290.7	1472.8	1472.8	1491.6	1590.6
52.5°	1585.3	1320.2	1031.0	771.2	1001.5	1033.7	1175.6	1387.1	1392.5	1411.2	1499.6
55°	1421.9	1183.6	956.0	709.6	864.9	934.6	1063.1	1298.8	1309.5	1328.2	1408.6
57.5°	1272.0	985.5	939.9	637.3	739.1	806.0	964.0	1213.1	1218.4	1234.5	1312.2
60°	1111.3	712.3	862.3	559.7	629.3	680.2	873.0	1111.3	1130.1	1140.8	1207.7
62.5°	929.2	516.8	781.9	506.1	575.7	586.5	798.0	1014.9	1039.0	1047.0	1087.2
65°	661.4	433.8	664.1	460.6	519.5	522.2	717.7	915.8	937.3	950.6	980.1
67.5°	447.2	353.5	506.1	417.7	476.7	479.3	640.0	800.7	830.1	840.8	859.6
70°	310.6	235.7	374.9	372.2	428.5	433.8	557.0	696.2	723.0	731.1	741.8
72.5°	227.6	190.1	310.6	334.7	377.6	382.9	471.3	578.4	605.2	613.2	618.6
75°	174.1	200.8	251.7	291.9	321.3	324.0	385.6	471.3	490.0	495.4	498.1
77.5°	139.2	187.5	184.8	235.7	262.4	257.1	302.6	364.2	380.3	380.3	380.3
80°	104.4	147.3	139.2	168.7	192.8	187.5	216.9	259.8	265.1	270.5	267.8
82.5°	77.7	93.7	93.7	107.1	128.5	123.2	144.6	168.7	168.7	168.7	174.1
85°	48.2	53.6	42.8	56.2	72.3	69.6	80.3	91.0	93.7	93.7	88.4
87.5°	29.5	24.1	13.4	21.4	32.1	32.1	37.5	40.2	37.5	37.5	37.5
90°	7.0	4.8	2.7	4.8	7.0	7.5	11.8	17.5	20.4	18.1	13.6
92.5°	47.2	28.9	10.7	28.9	47.2	51.8	72.7	100.8	114.8	100.6	72.2
95°	92.5	59.1	25.7	59.1	92.5	100.9	179.1	283.4	335.5	299.4	227.2
97.5°	103.5	74.0	44.5	74.0	103.5	110.8	241.2	415.2	502.1	479.2	433.6
100°	112.4	85.7	59.0	85.7	112.4	119.1	263.9	456.8	553.3	555.0	558.3
102.5°	121.1	96.2	71.3	96.2	121.1	127.4	274.2	470.0	567.8	596.9	655.0
105°	134.4	113.4	92.3	113.4	134.4	139.7	281.9	471.4	566.2	631.4	761.8
107.5°	153.1	133.4	113.7	133.4	153.1	158.0	283.3	450.4	534.0	624.9	806.8
110°	163.7	145.9	128.2	145.9	163.7	168.2	281.2	431.8	507.2	608.9	812.2



TEST NUMBER: P933927

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	176.3	159.3	142.5	159.3	176.3	180.5	281.3	415.6	482.8	586.9	795.0
115°	195.1	179.5	163.9	179.5	195.1	199.1	283.9	396.9	453.5	553.8	754.3
117.5°	213.4	199.2	185.0	199.2	213.4	217.0	289.1	385.3	433.5	524.0	704.9
120°	224.1	210.7	197.4	210.7	224.1	227.4	293.4	381.3	425.3	508.0	673.4
122.5°	236.4	223.0	209.5	223.0	236.4	239.8	299.6	379.3	419.2	493.6	642.5
125°	252.6	240.3	228.0	240.3	252.6	255.6	308.0	377.7	412.5	475.7	602.2
127.5°	267.8	255.4	243.0	255.4	267.8	270.9	316.3	376.7	406.9	461.1	569.8
130°	277.8	264.4	251.0	264.4	277.8	281.1	322.3	377.2	404.7	453.1	549.8
132.5°	286.1	272.7	259.4	272.7	286.1	289.4	327.2	377.7	402.8	446.1	532.7
135°	296.0	283.9	271.7	283.9	296.0	299.0	332.6	377.3	399.6	435.9	508.3
137.5°	308.3	296.3	284.3	296.3	308.3	311.3	340.6	379.6	399.1	429.7	490.9
140°	317.0	305.8	294.7	305.8	317.0	319.7	345.5	380.0	397.2	423.6	476.6
142.5°	323.3	313.0	302.8	313.0	323.3	325.9	349.6	381.3	397.2	420.4	466.9
145°	333.0	324.1	315.2	324.1	333.0	335.3	355.0	381.3	394.5	413.6	451.6
147.5°	344.9	336.2	327.5	336.2	344.9	347.1	362.9	384.0	394.5	409.5	439.4
150°	351.2	343.4	335.5	343.4	351.2	353.2	367.0	385.3	394.5	407.2	432.5
152.5°	355.7	349.8	343.8	349.8	355.7	357.2	369.6	386.2	394.5	405.3	426.9
155°	365.0	360.5	356.2	360.5	365.0	366.1	375.5	388.2	394.5	403.1	420.3
157.5°	373.9	369.5	365.3	369.5	373.9	375.0	381.5	390.2	394.5	401.2	414.5
160°	378.2	374.8	371.5	374.8	378.2	379.0	384.2	391.1	394.5	400.3	411.7
162.5°	382.7	380.2	377.7	380.2	382.7	383.3	387.0	392.0	394.5	399.4	409.0
165°	388.9	386.6	384.4	386.6	388.9	389.5	391.1	393.4	394.5	398.0	404.9
167.5°	392.7	391.6	390.5	391.6	392.7	392.9	394.4	396.2	397.2	399.4	404.0
170°	396.7	395.6	394.5	395.6	396.7	396.9	397.0	397.1	397.2	399.4	404.0
172.5°	397.1	396.9	396.7	396.9	397.1	397.2	397.2	397.2	397.2	399.0	402.6
175°	399.6	399.6	399.6	399.6	399.6	399.6	398.8	397.8	397.2	398.4	400.6
177.5°	399.6	399.6	399.6	399.6	399.6	399.6	399.0	398.2	397.8	398.6	400.4
180°	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6

TEST NUMBER: P933927

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2731.5	2723.5	2734.2	2704.7	2734.2	2723.5	2731.5	2750.3	2734.2	2744.9	2755.6
5°	2396.8	2383.4	2340.4	2305.6	2340.4	2383.4	2396.8	2453.0	2479.8	2528.0	2592.3
7.5°	2142.3	2131.6	2120.9	2099.4	2120.9	2131.6	2142.3	2158.4	2185.1	2228.0	2276.2
10°	2086.1	2088.7	2104.8	2102.1	2104.8	2088.7	2086.1	2080.7	2072.7	2080.7	2110.2
12.5°	2230.7	2254.8	2343.1	2337.8	2343.1	2254.8	2230.7	2123.5	2051.2	2037.9	2043.2
15°	2396.8	2404.8	2423.6	2426.2	2423.6	2404.8	2396.8	2353.8	2136.9	2043.2	2013.8
17.5°	2412.8	2415.5	2428.9	2428.9	2428.9	2415.5	2412.8	2394.1	2321.7	2195.8	2029.8
20°	2399.5	2404.8	2431.6	2436.9	2431.6	2404.8	2399.5	2375.4	2335.1	2289.6	2163.7
22.5°	2394.1	2404.8	2426.2	2423.6	2426.2	2404.8	2394.1	2356.5	2321.7	2289.6	2238.7
25°	2367.3	2367.3	2370.0	2372.7	2370.0	2367.3	2367.3	2337.8	2268.1	2260.1	2230.7
27.5°	2311.0	2316.3	2332.4	2329.7	2332.4	2316.3	2311.0	2300.3	2225.3	2217.3	2195.8
30°	2260.1	2254.8	2241.4	2230.7	2241.4	2254.8	2260.1	2244.0	2169.1	2147.6	2153.0
32.5°	2174.4	2161.0	2147.6	2139.6	2147.6	2161.0	2174.4	2169.1	2112.8	2083.4	2088.7
35°	2072.7	2075.3	2072.7	2064.6	2072.7	2075.3	2072.7	2078.0	2043.2	2016.4	2013.8
37.5°	2000.4	2005.7	2003.0	1992.3	2003.0	2005.7	2000.4	1995.0	1946.8	1938.8	1944.1
40°	1925.4	1928.1	1925.4	1917.3	1925.4	1928.1	1925.4	1914.7	1847.7	1850.4	1869.1
42.5°	1853.1	1850.4	1842.4	1837.0	1842.4	1850.4	1853.1	1837.0	1751.3	1743.3	1778.1
45°	1770.1	1772.7	1756.7	1748.6	1756.7	1772.7	1770.1	1759.4	1671.0	1649.6	1673.7
47.5°	1687.1	1687.1	1673.7	1665.6	1673.7	1687.1	1687.1	1673.7	1579.9	1558.5	1571.9
50°	1598.7	1596.0	1577.3	1574.6	1577.3	1596.0	1598.7	1590.6	1491.6	1472.8	1472.8
52.5°	1496.9	1496.9	1499.6	1505.0	1499.6	1496.9	1496.9	1499.6	1411.2	1392.5	1387.1
55°	1408.6	1411.2	1430.0	1435.3	1430.0	1411.2	1408.6	1408.6	1328.2	1309.5	1298.8
57.5°	1317.5	1317.5	1330.9	1330.9	1330.9	1317.5	1317.5	1312.2	1234.5	1218.4	1213.1
60°	1213.1	1218.4	1229.1	1226.5	1229.1	1218.4	1213.1	1207.7	1140.8	1130.1	1111.3
62.5°	1103.3	1108.6	1111.3	1106.0	1111.3	1108.6	1103.3	1087.2	1047.0	1039.0	1014.9
65°	988.1	993.5	996.2	990.8	996.2	993.5	988.1	980.1	950.6	937.3	915.8
67.5°	870.3	867.6	864.9	875.7	864.9	867.6	870.3	859.6	840.8	830.1	800.7
70°	749.8	749.8	747.1	752.5	747.1	749.8	749.8	741.8	731.1	723.0	696.2
72.5°	621.3	618.6	629.3	621.3	629.3	618.6	621.3	618.6	613.2	605.2	578.4
75°	495.4	500.8	495.4	503.4	495.4	500.8	495.4	498.1	495.4	490.0	471.3
77.5°	377.6	382.9	377.6	377.6	377.6	382.9	377.6	380.3	380.3	380.3	364.2
80°	267.8	265.1	265.1	262.4	265.1	265.1	267.8	267.8	270.5	265.1	259.8
82.5°	171.4	168.7	168.7	174.1	168.7	168.7	171.4	174.1	168.7	168.7	168.7
85°	93.7	96.4	91.0	91.0	91.0	96.4	93.7	88.4	93.7	93.7	91.0
87.5°	34.8	32.1	32.1	32.1	32.1	32.1	34.8	37.5	37.5	37.5	40.2
90°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	13.6	18.1	20.4	17.5
92.5°	51.0	48.9	40.9	32.8	40.9	48.9	51.0	72.2	100.6	114.8	100.8
95°	173.0	166.8	142.3	117.7	142.3	166.8	173.0	227.2	299.4	335.5	283.4
97.5°	399.4	387.7	341.0	294.2	341.0	387.7	399.4	433.6	479.2	502.1	415.2
100°	560.8	546.9	491.3	435.6	491.3	546.9	560.8	558.3	555.0	553.3	456.8
102.5°	698.7	686.7	639.0	591.4	639.0	686.7	698.7	655.0	596.9	567.8	470.0
105°	859.6	853.2	827.5	801.9	827.5	853.2	859.6	761.8	631.4	566.2	471.4
107.5°	943.3	944.8	951.1	957.2	951.1	944.8	943.3	806.8	624.9	534.0	450.4
110°	964.7	971.4	998.1	1024.8	998.1	971.4	964.7	812.2	608.9	507.2	431.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	951.1	961.4	1002.3	1043.3	1002.3	961.4	951.1	795.0	586.9	482.8	415.6
115°	904.7	918.9	975.7	1032.6	975.7	918.9	904.7	754.3	553.8	453.5	396.9
117.5°	840.6	856.4	919.4	982.4	919.4	856.4	840.6	704.9	524.0	433.5	385.3
120°	797.4	812.7	874.0	935.2	874.0	812.7	797.4	673.4	508.0	425.3	381.3
122.5°	754.2	769.3	829.8	890.2	829.8	769.3	754.2	642.5	493.6	419.2	379.3
125°	697.0	711.0	766.6	822.3	766.6	711.0	697.0	602.2	475.7	412.5	377.7
127.5°	651.2	662.9	709.9	756.9	709.9	662.9	651.2	569.8	461.1	406.9	376.7
130°	622.2	633.1	676.5	719.9	676.5	633.1	622.2	549.8	453.1	404.7	377.2
132.5°	597.6	607.3	646.2	685.0	646.2	607.3	597.6	532.7	446.1	402.8	377.7
135°	562.7	571.1	604.6	638.0	604.6	571.1	562.7	508.3	435.9	399.6	377.3
137.5°	536.9	543.8	571.2	598.7	571.2	543.8	536.9	490.9	429.7	399.1	379.6
140°	516.3	522.7	548.3	574.0	548.3	522.7	516.3	476.6	423.6	397.2	380.0
142.5°	501.8	507.4	529.4	551.5	529.4	507.4	501.8	466.9	420.4	397.2	381.3
145°	480.1	484.2	500.9	517.6	500.9	484.2	480.1	451.6	413.6	394.5	381.3
147.5°	461.8	465.3	479.2	493.0	479.2	465.3	461.8	439.4	409.5	394.5	384.0
150°	451.4	454.2	465.4	476.6	465.4	454.2	451.4	432.5	407.2	394.5	385.3
152.5°	443.1	445.2	453.6	462.1	453.6	445.2	443.1	426.9	405.3	394.5	386.2
155°	433.2	434.6	440.2	445.8	440.2	434.6	433.2	420.3	403.1	394.5	388.2
157.5°	424.5	425.5	429.5	433.5	429.5	425.5	424.5	414.5	401.2	394.5	390.2
160°	420.2	420.8	423.1	425.3	423.1	420.8	420.2	411.7	400.3	394.5	391.1
162.5°	416.2	416.8	418.9	421.0	418.9	416.8	416.2	409.0	399.4	394.5	392.0
165°	410.1	410.6	412.9	415.2	412.9	410.6	410.1	404.9	398.0	394.5	393.4
167.5°	407.4	407.7	408.6	409.5	408.6	407.7	407.4	404.0	399.4	397.2	396.2
170°	407.4	407.4	407.4	407.4	407.4	407.4	407.4	404.0	399.4	397.2	397.1
172.5°	405.2	405.1	404.2	403.4	404.2	405.1	405.2	402.6	399.0	397.2	397.2
175°	402.3	402.3	402.3	402.3	402.3	402.3	402.3	400.6	398.4	397.2	397.8
177.5°	401.8	401.5	400.6	399.6	400.6	401.5	401.8	400.4	398.6	397.8	398.2
180°	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6	399.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2795.8	2809.2	2817.2	2827.9	2854.7
5°	2688.7	2739.5	2755.6	2795.8	2844.0
7.5°	2453.0	2608.3	2651.2	2747.6	2822.6
10°	2225.3	2380.7	2455.7	2683.3	2795.8
12.5°	2110.2	2201.2	2252.1	2570.8	2758.3
15°	2037.9	2102.1	2139.6	2420.9	2715.4
17.5°	1981.6	2027.1	2053.9	2273.5	2656.5
20°	1946.8	1968.2	1992.3	2166.4	2589.6
22.5°	1922.7	1909.3	1928.1	2091.4	2498.5
25°	1906.6	1855.8	1877.2	2032.5	2391.4
27.5°	1920.0	1807.6	1815.6	1978.9	2278.9
30°	1922.7	1748.6	1751.3	1922.7	2153.0
32.5°	1904.0	1687.1	1689.7	1853.1	2011.1
35°	1858.4	1614.7	1612.1	1772.7	1818.3
37.5°	1796.8	1537.1	1537.1	1684.4	1606.7
40°	1721.9	1459.4	1467.5	1569.2	1419.3
42.5°	1630.8	1376.4	1387.1	1416.6	1280.0
45°	1531.7	1296.1	1304.1	1197.0	1172.9
47.5°	1421.9	1213.1	1215.7	993.5	1138.1
50°	1290.7	1127.4	1116.7	851.6	1135.4
52.5°	1175.6	1033.7	1001.5	771.2	1031.0
55°	1063.1	934.6	864.9	709.6	956.0
57.5°	964.0	806.0	739.1	637.3	939.9
60°	873.0	680.2	629.3	559.7	862.3
62.5°	798.0	586.5	575.7	506.1	781.9
65°	717.7	522.2	519.5	460.6	664.1
67.5°	640.0	479.3	476.7	417.7	506.1
70°	557.0	433.8	428.5	372.2	374.9
72.5°	471.3	382.9	377.6	334.7	310.6
75°	385.6	324.0	321.3	291.9	251.7
77.5°	302.6	257.1	262.4	235.7	184.8
80°	216.9	187.5	192.8	168.7	139.2
82.5°	144.6	123.2	128.5	107.1	93.7
85°	80.3	69.6	72.3	56.2	42.8
87.5°	37.5	32.1	32.1	21.4	13.4
90°	11.8	7.5	7.0	4.8	2.7
92.5°	72.7	51.8	47.2	28.9	10.7
95°	179.1	100.9	92.5	59.1	25.7
97.5°	241.2	110.8	103.5	74.0	44.5
100°	263.9	119.1	112.4	85.7	59.0
102.5°	274.2	127.4	121.1	96.2	71.3
105°	281.9	139.7	134.4	113.4	92.3
107.5°	283.3	158.0	153.1	133.4	113.7
110°	281.2	168.2	163.7	145.9	128.2



TEST NUMBER: P933927

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	281.3	180.5	176.3	159.3	142.5
115°	283.9	199.1	195.1	179.5	163.9
117.5°	289.1	217.0	213.4	199.2	185.0
120°	293.4	227.4	224.1	210.7	197.4
122.5°	299.6	239.8	236.4	223.0	209.5
125°	308.0	255.6	252.6	240.3	228.0
127.5°	316.3	270.9	267.8	255.4	243.0
130°	322.3	281.1	277.8	264.4	251.0
132.5°	327.2	289.4	286.1	272.7	259.4
135°	332.6	299.0	296.0	283.9	271.7
137.5°	340.6	311.3	308.3	296.3	284.3
140°	345.5	319.7	317.0	305.8	294.7
142.5°	349.6	325.9	323.3	313.0	302.8
145°	355.0	335.3	333.0	324.1	315.2
147.5°	362.9	347.1	344.9	336.2	327.5
150°	367.0	353.2	351.2	343.4	335.5
152.5°	369.6	357.2	355.7	349.8	343.8
155°	375.5	366.1	365.0	360.5	356.2
157.5°	381.5	375.0	373.9	369.5	365.3
160°	384.2	379.0	378.2	374.8	371.5
162.5°	387.0	383.3	382.7	380.2	377.7
165°	391.1	389.5	388.9	386.6	384.4
167.5°	394.4	392.9	392.7	391.6	390.5
170°	397.0	396.9	396.7	395.6	394.5
172.5°	397.2	397.2	397.1	396.9	396.7
175°	398.8	399.6	399.6	399.6	399.6
177.5°	399.0	399.6	399.6	399.6	399.6
180°	399.6	399.6	399.6	399.6	399.6



TEST NUMBER: P933927  
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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	14.32	15.44	15.04	16.18	17.07	17.17	18.29	17.89	19.03	19.92
	3H	14.81	15.82	15.55	16.58	17.49	18.54	19.55	19.27	20.30	21.22
	4H	15.02	15.97	15.77	16.73	17.66	19.00	19.95	19.75	20.71	21.64
	6H	15.15	16.03	15.91	16.80	17.74	19.30	20.18	20.07	20.95	21.90
	8H	15.16	16.00	15.93	16.78	17.73	19.39	20.23	20.16	21.02	21.96
	12H	15.14	15.94	15.92	16.72	17.69	19.44	20.24	20.22	21.02	21.99
4H	2H	15.38	16.34	16.14	17.10	18.03	17.61	18.56	18.36	19.32	20.25
	3H	16.44	17.23	17.21	18.03	18.97	19.14	19.94	19.91	20.74	21.68
	4H	16.72	17.45	17.51	18.24	19.22	19.69	20.41	20.47	21.21	22.18
	6H	16.86	17.49	17.67	18.31	19.29	20.07	20.70	20.87	21.52	22.50
	8H	16.88	17.46	17.68	18.28	19.27	20.19	20.77	20.99	21.59	22.58
	12H	16.85	17.38	17.68	18.22	19.22	20.26	20.79	21.09	21.63	22.62
8H	4H	17.20	17.79	18.01	18.60	19.59	19.83	20.42	20.64	21.23	22.23
	6H	17.47	17.96	18.31	18.82	19.81	20.28	20.77	21.12	21.63	22.62
	8H	17.52	17.95	18.37	18.81	19.81	20.44	20.87	21.29	21.73	22.74
	12H	17.52	17.89	18.36	18.74	19.81	20.56	20.94	21.41	21.78	22.85
12H	4H	17.22	17.75	18.05	18.59	19.58	19.81	20.33	20.63	21.17	22.17
	6H	17.54	17.97	18.38	18.83	19.83	20.28	20.72	21.13	21.57	22.58
	8H	17.62	18.00	18.47	18.84	19.91	20.46	20.84	21.31	21.69	22.75