

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: P933954

Luminaire Tested: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933954
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-93050-1D-UNV-STD-W-12-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

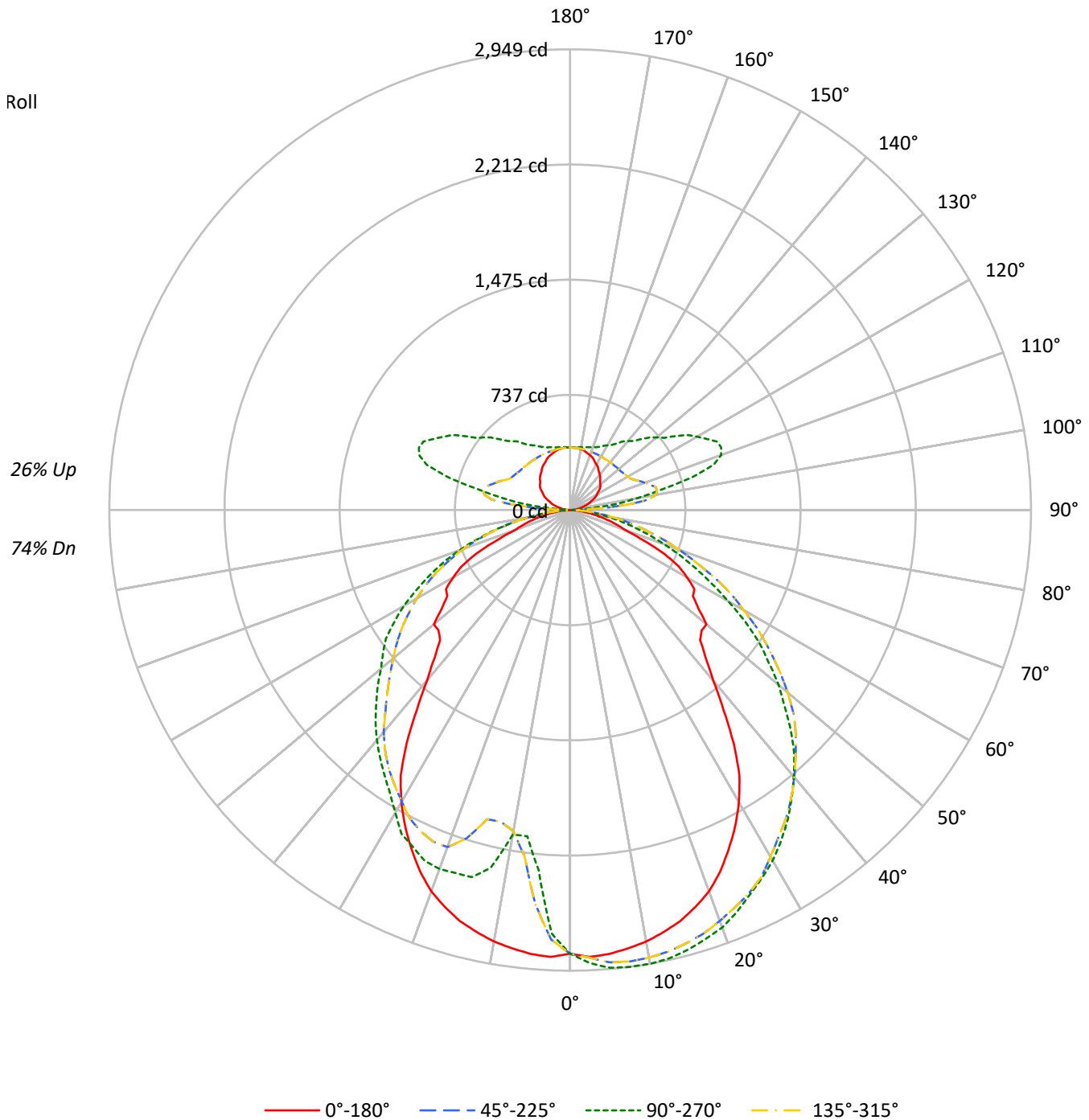
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9961.1 lumens
Efficiency: N/A
Efficacy: 110.7 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	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	43	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°	8782	8782	8782	8782
5°	8851	8865	8851	6970
10°	8794	8732	8794	6243
15°	8702	8543	8702	7133
20°	8524	8319	8524	7148
25°	8154	7992	8154	6997
30°	7676	7720	7676	6664
35°	6847	7377	6847	6299
40°	5708	6973	5708	6022
45°	5103	6500	5103	5705
50°	5426	5936	5426	5386
55°	5110	5328	5110	5202
60°	5274	4525	5274	4765
65°	4789	3740	4789	4181
70°	3324	2981	3324	3505
75°	2927	2204	2927	2639
80°	2376	1457	2376	1586
85°	1393	771	1393	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7817 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	2.6
10°-20°	727.6	7.3
20°-30°	1124.8	11.3
30°-40°	1342.8	13.5
40°-50°	1350.6	13.6
50°-60°	1175.2	11.8
60°-70°	833.2	8.4
70°-80°	440.8	4.4
80°-90°	111.3	1.1
90°-100°	195.4	2.0
100°-110°	513.7	5.2
110°-120°	532.6	5.3
120°-130°	427.2	4.3
130°-140°	335.2	3.4
140°-150°	257.3	2.6
150°-160°	185.3	1.9
160°-170°	113.4	1.1
170°-180°	38.3	0.4
0°-30°	2108.7	21.2
0°-40°	3451.5	34.6
0°-60°	5977.3	60.0
0°-90°	7362.7	73.9
90°-120°	1241.7	12.5
90°-150°	2261.5	22.7
90°-180°	2598.0	26.1
0°-180°	9961.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2839	2839	2839	2839	2839	
5°	2853	2941	2853	2313	2853	271
15°	2724	2914	2724	2434	2724	766
25°	2399	2718	2399	2380	2399	1101
35°	1824	2426	1824	2071	1824	1128
45°	1176	1998	1176	1754	1176	942
55°	959	1475	959	1440	959	881
65°	666	889	666	994	666	637
75°	252	422	252	505	252	265
85°	43	107	43	91	43	58
90°	3	10	3	10	3	4
95°	26	118	26	118	26	29
105°	93	804	93	804	93	98
115°	164	1036	164	1036	164	162
125°	229	825	229	825	229	203
135°	272	640	272	640	272	211
145°	316	519	316	519	316	198
155°	357	447	357	447	357	164
165°	386	416	386	416	386	109
175°	401	404	401	404	401	38
180°	401	401	401	401	401	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2863.3	2863.3	2879.4	2884.8	2884.8	2876.7	2868.7	2876.7	2900.9	2909.0	2906.3
5°	2852.6	2874.0	2903.6	2909.0	2914.3	2911.6	2906.3	2911.6	2938.5	2943.9	2946.6
7.5°	2831.1	2871.4	2909.0	2917.0	2925.1	2917.0	2914.3	2919.7	2946.6	2951.9	2951.9
10°	2804.2	2860.6	2903.6	2909.0	2917.0	2909.0	2909.0	2919.7	2946.6	2951.9	2954.6
12.5°	2766.6	2844.5	2884.8	2890.2	2900.9	2898.2	2895.5	2906.3	2933.1	2938.5	2938.5
15°	2723.6	2815.0	2852.6	2857.9	2876.7	2871.4	2871.4	2882.1	2911.6	2919.7	2917.0
17.5°	2664.5	2777.3	2820.3	2828.4	2841.8	2839.1	2841.8	2852.6	2879.4	2884.8	2887.5
20°	2597.4	2726.3	2777.3	2785.4	2798.8	2798.8	2798.8	2812.3	2839.1	2849.9	2849.9
22.5°	2506.1	2672.6	2726.3	2731.7	2747.8	2747.8	2753.2	2772.0	2796.1	2798.8	2798.8
25°	2398.6	2613.5	2659.2	2675.3	2691.4	2699.5	2707.5	2718.3	2726.3	2723.6	2726.3
27.5°	2285.7	2538.3	2597.4	2608.1	2629.6	2637.7	2648.4	2651.1	2653.8	2661.9	2656.5
30°	2159.5	2433.5	2522.2	2532.9	2567.8	2573.2	2562.5	2567.8	2581.3	2586.6	2592.0
32.5°	2017.1	2277.7	2444.3	2468.5	2500.7	2484.6	2481.9	2490.0	2511.4	2511.4	2516.8
35°	1823.8	2156.8	2371.8	2393.3	2417.4	2398.6	2409.4	2412.1	2425.5	2433.5	2430.9
37.5°	1611.6	2052.1	2296.5	2312.6	2331.4	2307.2	2323.3	2331.4	2342.1	2336.8	2336.8
40°	1423.5	1888.2	2207.8	2218.6	2234.7	2215.9	2232.0	2237.4	2242.8	2237.4	2234.7
42.5°	1283.9	1708.3	2113.8	2127.3	2116.5	2129.9	2135.3	2146.1	2138.0	2127.3	2127.3
45°	1176.4	1659.9	2011.8	2027.9	2011.8	2033.3	2041.3	2041.3	2017.1	2011.8	2009.1
47.5°	1141.5	1563.2	1909.7	1909.7	1901.6	1928.5	1941.9	1923.1	1899.0	1890.9	1890.9
50°	1138.8	1455.8	1770.0	1759.3	1796.9	1829.1	1815.7	1796.9	1778.1	1748.5	1748.5
52.5°	1034.1	1324.2	1590.1	1630.4	1689.5	1708.3	1686.8	1668.0	1635.7	1622.3	1611.6
55°	958.9	1187.2	1426.2	1506.8	1568.6	1592.8	1552.5	1533.7	1485.3	1477.3	1471.9
57.5°	942.8	988.4	1275.8	1377.9	1453.1	1450.4	1426.2	1391.3	1351.0	1343.0	1340.3
60°	864.9	714.5	1114.7	1235.5	1313.4	1305.4	1283.9	1251.6	1214.0	1208.7	1203.3
62.5°	784.3	518.4	932.0	1069.0	1179.1	1176.4	1157.6	1109.3	1082.4	1069.0	1058.3
65°	666.1	435.1	663.4	889.0	1047.5	1052.9	1012.6	977.7	948.1	932.0	929.3
67.5°	507.6	354.5	448.6	741.3	921.3	915.9	864.9	848.8	811.2	803.1	787.0
70°	376.0	236.4	311.6	601.6	797.7	784.3	744.0	725.2	690.3	671.5	660.7
72.5°	311.6	190.7	228.3	467.4	671.5	655.4	620.5	599.0	569.4	553.3	542.6
75°	252.5	201.4	174.6	346.5	545.2	534.5	502.3	480.8	456.6	435.1	437.8
77.5°	185.3	188.0	139.7	255.2	432.4	416.3	397.5	370.7	359.9	338.4	338.4
80°	139.7	147.7	104.8	174.6	311.6	311.6	295.5	276.7	257.8	247.1	247.1
82.5°	94.0	94.0	77.9	110.1	212.2	204.1	193.4	188.0	177.3	171.9	171.9
85°	43.0	53.7	48.3	67.1	115.5	120.9	120.9	115.5	112.8	107.4	110.1
87.5°	13.4	24.2	29.5	37.6	59.1	61.8	64.5	64.5	64.5	67.1	67.1
90°	2.7	4.8	7.0	7.5	11.8	17.5	20.4	18.2	13.6	10.2	10.2
92.5°	10.7	29.0	47.4	51.9	73.0	101.1	115.1	100.9	72.4	51.1	49.1
95°	25.8	59.3	92.8	101.2	179.6	284.3	336.5	300.3	227.9	173.5	167.3
97.5°	44.7	74.2	103.8	111.1	241.9	416.4	503.6	480.7	434.9	400.6	388.8
100°	59.2	85.9	112.7	119.4	264.7	458.2	555.0	556.7	560.0	562.5	548.6
102.5°	71.5	96.5	121.5	127.8	275.0	471.4	569.5	598.7	657.0	700.8	688.8
105°	92.6	113.7	134.8	140.1	282.7	472.8	567.9	633.3	764.1	862.2	855.7
107.5°	114.1	133.8	153.5	158.5	284.2	451.8	535.6	626.8	809.3	946.2	947.7
110°	128.6	146.4	164.2	168.7	282.0	433.2	508.7	610.7	814.6	967.7	974.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	142.9	159.8	176.8	181.0	282.1	416.9	484.3	588.7	797.4	954.0	964.3
115°	164.4	180.0	195.7	199.7	284.7	398.1	454.9	555.5	756.5	907.4	921.6
117.5°	185.6	199.8	214.1	217.7	290.0	386.5	434.8	525.5	707.0	843.1	859.0
120°	198.0	211.4	224.8	228.1	294.3	382.5	426.6	509.5	675.4	799.8	815.2
122.5°	210.1	223.6	237.1	240.5	300.5	380.4	420.4	495.1	644.4	756.4	771.6
125°	228.7	241.0	253.4	256.4	308.9	378.8	413.7	477.1	604.0	699.1	713.1
127.5°	243.7	256.1	268.6	271.7	317.2	377.8	408.1	462.5	571.5	653.1	664.9
130°	251.8	265.2	278.6	281.9	323.3	378.4	405.9	454.5	551.4	624.1	635.0
132.5°	260.2	273.5	286.9	290.3	328.2	378.8	404.1	447.5	534.3	599.4	609.2
135°	272.5	284.7	296.9	299.9	333.6	378.4	400.8	437.2	509.9	564.4	572.8
137.5°	285.2	297.2	309.2	312.3	341.7	380.8	400.3	431.0	492.4	538.5	545.4
140°	295.6	306.7	317.9	320.7	346.6	381.1	398.4	424.9	478.0	517.8	524.3
142.5°	303.7	314.0	324.3	326.9	350.7	382.5	398.4	421.7	468.3	503.3	508.9
145°	316.1	325.1	334.0	336.3	356.1	382.5	395.7	414.8	452.9	481.5	485.7
147.5°	328.5	337.2	345.9	348.1	363.9	385.2	395.7	410.8	440.8	463.2	466.7
150°	336.5	344.4	352.3	354.3	368.1	386.5	395.7	408.4	433.8	452.8	455.5
152.5°	344.9	350.9	356.8	358.3	370.7	387.4	395.7	406.6	428.2	444.4	446.6
155°	357.2	361.6	366.1	367.2	376.7	389.4	395.7	404.3	421.6	434.5	435.9
157.5°	366.4	370.7	375.0	376.1	382.7	391.3	395.7	402.4	415.8	425.8	426.8
160°	372.6	375.9	379.3	380.1	385.3	392.2	395.7	401.5	412.9	421.5	422.1
162.5°	378.8	381.3	383.8	384.4	388.2	393.2	395.7	400.6	410.2	417.5	418.0
165°	385.5	387.8	390.1	390.6	392.3	394.6	395.7	399.2	406.1	411.3	411.8
167.5°	391.7	392.8	393.8	394.1	395.5	397.4	398.4	400.7	405.2	408.6	408.9
170°	395.7	396.8	397.9	398.1	398.2	398.3	398.4	400.7	405.2	408.6	408.6
172.5°	397.9	398.1	398.3	398.4	398.4	398.4	398.4	400.2	403.8	406.5	406.3
175°	400.8	400.8	400.8	400.8	400.0	399.0	398.4	399.6	401.8	403.5	403.5
177.5°	400.8	400.8	400.8	400.8	400.2	399.4	399.0	399.8	401.6	403.0	402.7
180°	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2911.6	2903.6	2911.6	2906.3	2909.0	2900.9	2876.7	2868.7	2876.7	2884.8	2884.8
5°	2946.6	2941.2	2946.6	2946.6	2943.9	2938.5	2911.6	2906.3	2911.6	2914.3	2909.0
7.5°	2957.3	2949.2	2957.3	2951.9	2951.9	2946.6	2919.7	2914.3	2917.0	2925.1	2917.0
10°	2957.3	2949.2	2957.3	2954.6	2951.9	2946.6	2919.7	2909.0	2909.0	2917.0	2909.0
12.5°	2943.9	2938.5	2943.9	2938.5	2938.5	2933.1	2906.3	2895.5	2898.2	2900.9	2890.2
15°	2922.4	2914.3	2922.4	2917.0	2919.7	2911.6	2882.1	2871.4	2871.4	2876.7	2857.9
17.5°	2890.2	2879.4	2890.2	2887.5	2884.8	2879.4	2852.6	2841.8	2839.1	2841.8	2828.4
20°	2852.6	2844.5	2852.6	2849.9	2849.9	2839.1	2812.3	2798.8	2798.8	2798.8	2785.4
22.5°	2793.5	2785.4	2793.5	2798.8	2798.8	2796.1	2772.0	2753.2	2747.8	2747.8	2731.7
25°	2726.3	2718.3	2726.3	2726.3	2723.6	2726.3	2718.3	2707.5	2699.5	2691.4	2675.3
27.5°	2661.9	2656.5	2661.9	2656.5	2661.9	2653.8	2651.1	2648.4	2637.7	2629.6	2608.1
30°	2597.4	2592.0	2597.4	2592.0	2586.6	2581.3	2567.8	2562.5	2573.2	2567.8	2532.9
32.5°	2516.8	2511.4	2516.8	2516.8	2511.4	2511.4	2490.0	2481.9	2484.6	2500.7	2468.5
35°	2433.5	2425.5	2433.5	2430.9	2433.5	2425.5	2412.1	2409.4	2398.6	2417.4	2393.3
37.5°	2336.8	2328.7	2336.8	2336.8	2336.8	2342.1	2331.4	2323.3	2307.2	2331.4	2312.6
40°	2237.4	2226.6	2237.4	2234.7	2237.4	2242.8	2237.4	2232.0	2215.9	2234.7	2218.6
42.5°	2124.6	2121.9	2124.6	2127.3	2127.3	2138.0	2146.1	2135.3	2129.9	2116.5	2127.3
45°	2003.7	1998.3	2003.7	2009.1	2011.8	2017.1	2041.3	2041.3	2033.3	2011.8	2027.9
47.5°	1874.8	1861.4	1874.8	1890.9	1890.9	1899.0	1923.1	1941.9	1928.5	1901.6	1909.7
50°	1737.8	1740.5	1737.8	1748.5	1748.5	1778.1	1796.9	1815.7	1829.1	1796.9	1759.3
52.5°	1603.5	1600.8	1603.5	1611.6	1622.3	1635.7	1668.0	1686.8	1708.3	1689.5	1630.4
55°	1469.2	1474.6	1469.2	1471.9	1477.3	1485.3	1533.7	1552.5	1592.8	1568.6	1506.8
57.5°	1334.9	1326.9	1334.9	1340.3	1343.0	1351.0	1391.3	1426.2	1450.4	1453.1	1377.9
60°	1179.1	1168.4	1179.1	1203.3	1208.7	1214.0	1251.6	1283.9	1305.4	1313.4	1235.5
62.5°	1042.1	1023.3	1042.1	1058.3	1069.0	1082.4	1109.3	1157.6	1176.4	1179.1	1069.0
65°	897.1	889.0	897.1	929.3	932.0	948.1	977.7	1012.6	1052.9	1047.5	889.0
67.5°	765.5	765.5	765.5	787.0	803.1	811.2	848.8	864.9	915.9	921.3	741.3
70°	644.6	641.9	644.6	660.7	671.5	690.3	725.2	744.0	784.3	797.7	601.6
72.5°	529.1	526.4	529.1	542.6	553.3	569.4	599.0	620.5	655.4	671.5	467.4
75°	427.1	421.7	427.1	437.8	435.1	456.6	480.8	502.3	534.5	545.2	346.5
77.5°	327.7	327.7	327.7	338.4	338.4	359.9	370.7	397.5	416.3	432.4	255.2
80°	244.4	241.7	244.4	247.1	247.1	257.8	276.7	295.5	311.6	311.6	174.6
82.5°	171.9	166.5	171.9	171.9	171.9	177.3	188.0	193.4	204.1	212.2	110.1
85°	107.4	107.4	107.4	110.1	107.4	112.8	115.5	120.9	120.9	115.5	67.1
87.5°	69.8	67.1	69.8	67.1	67.1	64.5	64.5	64.5	61.8	59.1	37.6
90°	10.2	10.2	10.2	10.2	10.2	13.6	18.2	20.4	17.5	11.8	7.5
92.5°	41.0	32.9	41.0	49.1	51.1	72.4	100.9	115.1	101.1	73.0	51.9
95°	142.7	118.1	142.7	167.3	173.5	227.9	300.3	336.5	284.3	179.6	101.2
97.5°	342.0	295.1	342.0	388.8	400.6	434.9	480.7	503.6	416.4	241.9	111.1
100°	492.8	436.9	492.8	548.6	562.5	560.0	556.7	555.0	458.2	264.7	119.4
102.5°	641.0	593.1	641.0	688.8	700.8	657.0	598.7	569.5	471.4	275.0	127.8
105°	830.0	804.3	830.0	855.7	862.2	764.1	633.3	567.9	472.8	282.7	140.1
107.5°	954.0	960.1	954.0	947.7	946.2	809.3	626.8	535.6	451.8	284.2	158.5
110°	1001.1	1027.9	1001.1	974.4	967.7	814.6	610.7	508.7	433.2	282.0	168.7



TEST NUMBER: P933954

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1005.3	1046.4	1005.3	964.3	954.0	797.4	588.7	484.3	416.9	282.1	181.0
115°	978.7	1035.7	978.7	921.6	907.4	756.5	555.5	454.9	398.1	284.7	199.7
117.5°	922.2	985.4	922.2	859.0	843.1	707.0	525.5	434.8	386.5	290.0	217.7
120°	876.6	938.0	876.6	815.2	799.8	675.4	509.5	426.6	382.5	294.3	228.1
122.5°	832.3	892.9	832.3	771.6	756.4	644.4	495.1	420.4	380.4	300.5	240.5
125°	768.9	824.8	768.9	713.1	699.1	604.0	477.1	413.7	378.8	308.9	256.4
127.5°	712.0	759.1	712.0	664.9	653.1	571.5	462.5	408.1	377.8	317.2	271.7
130°	678.6	722.1	678.6	635.0	624.1	551.4	454.5	405.9	378.4	323.3	281.9
132.5°	648.1	687.1	648.1	609.2	599.4	534.3	447.5	404.1	378.8	328.2	290.3
135°	606.4	640.0	606.4	572.8	564.4	509.9	437.2	400.8	378.4	333.6	299.9
137.5°	572.9	600.5	572.9	545.4	538.5	492.4	431.0	400.3	380.8	341.7	312.3
140°	550.0	575.7	550.0	524.3	517.8	478.0	424.9	398.4	381.1	346.6	320.7
142.5°	531.0	553.1	531.0	508.9	503.3	468.3	421.7	398.4	382.5	350.7	326.9
145°	502.4	519.2	502.4	485.7	481.5	452.9	414.8	395.7	382.5	356.1	336.3
147.5°	480.6	494.5	480.6	466.7	463.2	440.8	410.8	395.7	385.2	363.9	348.1
150°	466.8	478.0	466.8	455.5	452.8	433.8	408.4	395.7	386.5	368.1	354.3
152.5°	455.0	463.5	455.0	446.6	444.4	428.2	406.6	395.7	387.4	370.7	358.3
155°	441.5	447.1	441.5	435.9	434.5	421.6	404.3	395.7	389.4	376.7	367.2
157.5°	430.8	434.8	430.8	426.8	425.8	415.8	402.4	395.7	391.3	382.7	376.1
160°	424.4	426.6	424.4	422.1	421.5	412.9	401.5	395.7	392.2	385.3	380.1
162.5°	420.2	422.3	420.2	418.0	417.5	410.2	400.6	395.7	393.2	388.2	384.4
165°	414.2	416.4	414.2	411.8	411.3	406.1	399.2	395.7	394.6	392.3	390.6
167.5°	409.8	410.8	409.8	408.9	408.6	405.2	400.7	398.4	397.4	395.5	394.1
170°	408.6	408.6	408.6	408.6	408.6	405.2	400.7	398.4	398.3	398.2	398.1
172.5°	405.4	404.6	405.4	406.3	406.5	403.8	400.2	398.4	398.4	398.4	398.4
175°	403.5	403.5	403.5	403.5	403.5	401.8	399.6	398.4	399.0	400.0	400.8
177.5°	401.8	400.8	401.8	402.7	403.0	401.6	399.8	399.0	399.4	400.2	400.8
180°	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8



TEST NUMBER: P933954

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2879.4	2863.3	2863.3	2836.4	2825.7	2817.6	2804.2	2763.9	2753.2	2742.4	2758.5
5°	2903.6	2874.0	2852.6	2804.2	2763.9	2747.8	2696.8	2600.1	2535.6	2487.3	2460.4
7.5°	2909.0	2871.4	2831.1	2755.9	2659.2	2616.2	2460.4	2283.0	2234.7	2191.7	2164.9
10°	2903.6	2860.6	2804.2	2691.4	2463.1	2387.9	2232.0	2116.5	2087.0	2078.9	2087.0
12.5°	2884.8	2844.5	2766.6	2578.6	2258.9	2207.8	2116.5	2049.4	2044.0	2057.4	2129.9
15°	2852.6	2815.0	2723.6	2428.2	2146.1	2108.5	2044.0	2019.8	2049.4	2143.4	2360.9
17.5°	2820.3	2777.3	2664.5	2280.4	2060.1	2033.3	1987.6	2035.9	2202.5	2328.7	2401.3
20°	2777.3	2726.3	2597.4	2172.9	1998.3	1974.2	1952.7	2170.2	2296.5	2342.1	2382.5
22.5°	2726.3	2672.6	2506.1	2097.7	1933.9	1915.1	1928.5	2245.4	2296.5	2328.7	2363.6
25°	2659.2	2613.5	2398.6	2038.6	1882.8	1861.4	1912.4	2237.4	2266.9	2275.0	2344.8
27.5°	2597.4	2538.3	2285.7	1984.9	1821.1	1813.0	1925.8	2202.5	2224.0	2232.0	2307.2
30°	2522.2	2433.5	2159.5	1928.5	1756.6	1753.9	1928.5	2159.5	2154.1	2175.6	2250.8
32.5°	2444.3	2277.7	2017.1	1858.7	1694.8	1692.1	1909.7	2095.0	2089.7	2119.2	2175.6
35°	2371.8	2156.8	1823.8	1778.1	1616.9	1619.6	1864.0	2019.8	2022.5	2049.4	2084.3
37.5°	2296.5	2052.1	1611.6	1689.5	1541.7	1541.7	1802.3	1950.0	1944.6	1952.7	2001.0
40°	2207.8	1888.2	1423.5	1574.0	1471.9	1463.8	1727.1	1874.8	1856.0	1853.3	1920.4
42.5°	2113.8	1708.3	1283.9	1420.9	1391.3	1380.6	1635.7	1783.5	1748.5	1756.6	1842.6
45°	2011.8	1659.9	1176.4	1200.6	1308.1	1300.0	1536.4	1678.7	1654.5	1676.0	1764.7
47.5°	1909.7	1563.2	1141.5	996.5	1219.4	1216.7	1426.2	1576.6	1563.2	1584.7	1678.7
50°	1770.0	1455.8	1138.8	854.1	1120.0	1130.8	1294.6	1477.3	1477.3	1496.1	1595.4
52.5°	1590.1	1324.2	1034.1	773.5	1004.5	1036.8	1179.1	1391.3	1396.7	1415.5	1504.1
55°	1426.2	1187.2	958.9	711.8	867.6	937.4	1066.3	1302.7	1313.4	1332.2	1412.8
57.5°	1275.8	988.4	942.8	639.3	741.3	808.5	966.9	1216.7	1222.1	1238.2	1316.1
60°	1114.7	714.5	864.9	561.4	631.2	682.2	875.6	1114.7	1133.5	1144.2	1211.4
62.5°	932.0	518.4	784.3	507.6	577.5	588.2	800.4	1018.0	1042.1	1050.2	1090.5
65°	663.4	435.1	666.1	462.0	521.1	523.8	719.8	918.6	940.1	953.5	983.1
67.5°	448.6	354.5	507.6	419.0	478.1	480.8	641.9	803.1	832.6	843.4	862.2
70°	311.6	236.4	376.0	373.3	429.7	435.1	558.7	698.3	725.2	733.3	744.0
72.5°	228.3	190.7	311.6	335.7	378.7	384.1	472.7	580.2	607.0	615.1	620.5
75°	174.6	201.4	252.5	292.8	322.3	325.0	386.8	472.7	491.5	496.9	499.6
77.5°	139.7	188.0	185.3	236.4	263.2	257.8	303.5	365.3	381.4	381.4	381.4
80°	104.8	147.7	139.7	169.2	193.4	188.0	217.6	260.5	265.9	271.3	268.6
82.5°	77.9	94.0	94.0	107.4	128.9	123.6	145.0	169.2	169.2	169.2	174.6
85°	48.3	53.7	43.0	56.4	72.5	69.8	80.6	91.3	94.0	94.0	88.6
87.5°	29.5	24.2	13.4	21.5	32.2	32.2	37.6	40.3	37.6	37.6	37.6
90°	7.0	4.8	2.7	4.8	7.0	7.5	11.8	17.5	20.4	18.2	13.6
92.5°	47.4	29.0	10.7	29.0	47.4	51.9	73.0	101.1	115.1	100.9	72.4
95°	92.8	59.3	25.8	59.3	92.8	101.2	179.6	284.3	336.5	300.3	227.9
97.5°	103.8	74.2	44.7	74.2	103.8	111.1	241.9	416.4	503.6	480.7	434.9
100°	112.7	85.9	59.2	85.9	112.7	119.4	264.7	458.2	555.0	556.7	560.0
102.5°	121.5	96.5	71.5	96.5	121.5	127.8	275.0	471.4	569.5	598.7	657.0
105°	134.8	113.7	92.6	113.7	134.8	140.1	282.7	472.8	567.9	633.3	764.1
107.5°	153.5	133.8	114.1	133.8	153.5	158.5	284.2	451.8	535.6	626.8	809.3
110°	164.2	146.4	128.6	146.4	164.2	168.7	282.0	433.2	508.7	610.7	814.6



TEST NUMBER: P933954

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	176.8	159.8	142.9	159.8	176.8	181.0	282.1	416.9	484.3	588.7	797.4
115°	195.7	180.0	164.4	180.0	195.7	199.7	284.7	398.1	454.9	555.5	756.5
117.5°	214.1	199.8	185.6	199.8	214.1	217.7	290.0	386.5	434.8	525.5	707.0
120°	224.8	211.4	198.0	211.4	224.8	228.1	294.3	382.5	426.6	509.5	675.4
122.5°	237.1	223.6	210.1	223.6	237.1	240.5	300.5	380.4	420.4	495.1	644.4
125°	253.4	241.0	228.7	241.0	253.4	256.4	308.9	378.8	413.7	477.1	604.0
127.5°	268.6	256.1	243.7	256.1	268.6	271.7	317.2	377.8	408.1	462.5	571.5
130°	278.6	265.2	251.8	265.2	278.6	281.9	323.3	378.4	405.9	454.5	551.4
132.5°	286.9	273.5	260.2	273.5	286.9	290.3	328.2	378.8	404.1	447.5	534.3
135°	296.9	284.7	272.5	284.7	296.9	299.9	333.6	378.4	400.8	437.2	509.9
137.5°	309.2	297.2	285.2	297.2	309.2	312.3	341.7	380.8	400.3	431.0	492.4
140°	317.9	306.7	295.6	306.7	317.9	320.7	346.6	381.1	398.4	424.9	478.0
142.5°	324.3	314.0	303.7	314.0	324.3	326.9	350.7	382.5	398.4	421.7	468.3
145°	334.0	325.1	316.1	325.1	334.0	336.3	356.1	382.5	395.7	414.8	452.9
147.5°	345.9	337.2	328.5	337.2	345.9	348.1	363.9	385.2	395.7	410.8	440.8
150°	352.3	344.4	336.5	344.4	352.3	354.3	368.1	386.5	395.7	408.4	433.8
152.5°	356.8	350.9	344.9	350.9	356.8	358.3	370.7	387.4	395.7	406.6	428.2
155°	366.1	361.6	357.2	361.6	366.1	367.2	376.7	389.4	395.7	404.3	421.6
157.5°	375.0	370.7	366.4	370.7	375.0	376.1	382.7	391.3	395.7	402.4	415.8
160°	379.3	375.9	372.6	375.9	379.3	380.1	385.3	392.2	395.7	401.5	412.9
162.5°	383.8	381.3	378.8	381.3	383.8	384.4	388.2	393.2	395.7	400.6	410.2
165°	390.1	387.8	385.5	387.8	390.1	390.6	392.3	394.6	395.7	399.2	406.1
167.5°	393.8	392.8	391.7	392.8	393.8	394.1	395.5	397.4	398.4	400.7	405.2
170°	397.9	396.8	395.7	396.8	397.9	398.1	398.2	398.3	398.4	400.7	405.2
172.5°	398.3	398.1	397.9	398.1	398.3	398.4	398.4	398.4	398.4	400.2	403.8
175°	400.8	400.8	400.8	400.8	400.8	400.8	400.0	399.0	398.4	399.6	401.8
177.5°	400.8	400.8	400.8	400.8	400.8	400.8	400.2	399.4	399.0	399.8	401.6
180°	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8



TEST NUMBER: P933954

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2739.7	2731.7	2742.4	2712.9	2742.4	2731.7	2739.7	2758.5	2742.4	2753.2	2763.9
5°	2404.0	2390.6	2347.5	2312.6	2347.5	2390.6	2404.0	2460.4	2487.3	2535.6	2600.1
7.5°	2148.7	2138.0	2127.3	2105.8	2127.3	2138.0	2148.7	2164.9	2191.7	2234.7	2283.0
10°	2092.3	2095.0	2111.1	2108.5	2111.1	2095.0	2092.3	2087.0	2078.9	2087.0	2116.5
12.5°	2237.4	2261.6	2350.2	2344.8	2350.2	2261.6	2237.4	2129.9	2057.4	2044.0	2049.4
15°	2404.0	2412.1	2430.9	2433.5	2430.9	2412.1	2404.0	2360.9	2143.4	2049.4	2019.8
17.5°	2420.1	2422.8	2436.2	2436.2	2436.2	2422.8	2420.1	2401.3	2328.7	2202.5	2035.9
20°	2406.7	2412.1	2438.9	2444.3	2438.9	2412.1	2406.7	2382.5	2342.1	2296.5	2170.2
22.5°	2401.3	2412.1	2433.5	2430.9	2433.5	2412.1	2401.3	2363.6	2328.7	2296.5	2245.4
25°	2374.5	2374.5	2377.1	2379.8	2377.1	2374.5	2374.5	2344.8	2275.0	2266.9	2237.4
27.5°	2318.0	2323.3	2339.5	2336.8	2339.5	2323.3	2318.0	2307.2	2232.0	2224.0	2202.5
30°	2266.9	2261.6	2248.1	2237.4	2248.1	2261.6	2266.9	2250.8	2175.6	2154.1	2159.5
32.5°	2181.0	2167.6	2154.1	2146.1	2154.1	2167.6	2181.0	2175.6	2119.2	2089.7	2095.0
35°	2078.9	2081.6	2078.9	2070.9	2078.9	2081.6	2078.9	2084.3	2049.4	2022.5	2019.8
37.5°	2006.4	2011.8	2009.1	1998.3	2009.1	2011.8	2006.4	2001.0	1952.7	1944.6	1950.0
40°	1931.2	1933.9	1931.2	1923.1	1931.2	1933.9	1931.2	1920.4	1853.3	1856.0	1874.8
42.5°	1858.7	1856.0	1847.9	1842.6	1847.9	1856.0	1858.7	1842.6	1756.6	1748.5	1783.5
45°	1775.4	1778.1	1762.0	1753.9	1762.0	1778.1	1775.4	1764.7	1676.0	1654.5	1678.7
47.5°	1692.1	1692.1	1678.7	1670.7	1678.7	1692.1	1692.1	1678.7	1584.7	1563.2	1576.6
50°	1603.5	1600.8	1582.0	1579.3	1582.0	1600.8	1603.5	1595.4	1496.1	1477.3	1477.3
52.5°	1501.4	1501.4	1504.1	1509.5	1504.1	1501.4	1501.4	1504.1	1415.5	1396.7	1391.3
55°	1412.8	1415.5	1434.3	1439.7	1434.3	1415.5	1412.8	1412.8	1332.2	1313.4	1302.7
57.5°	1321.5	1321.5	1334.9	1334.9	1334.9	1321.5	1321.5	1316.1	1238.2	1222.1	1216.7
60°	1216.7	1222.1	1232.8	1230.2	1232.8	1222.1	1216.7	1211.4	1144.2	1133.5	1114.7
62.5°	1106.6	1112.0	1114.7	1109.3	1114.7	1112.0	1106.6	1090.5	1050.2	1042.1	1018.0
65°	991.1	996.5	999.2	993.8	999.2	996.5	991.1	983.1	953.5	940.1	918.6
67.5°	872.9	870.2	867.6	878.3	867.6	870.2	872.9	862.2	843.4	832.6	803.1
70°	752.1	752.1	749.4	754.7	749.4	752.1	752.1	744.0	733.3	725.2	698.3
72.5°	623.1	620.5	631.2	623.1	631.2	620.5	623.1	620.5	615.1	607.0	580.2
75°	496.9	502.3	496.9	505.0	496.9	502.3	496.9	499.6	496.9	491.5	472.7
77.5°	378.7	384.1	378.7	378.7	378.7	384.1	378.7	381.4	381.4	381.4	365.3
80°	268.6	265.9	265.9	263.2	265.9	265.9	268.6	268.6	271.3	265.9	260.5
82.5°	171.9	169.2	169.2	174.6	169.2	169.2	171.9	174.6	169.2	169.2	169.2
85°	94.0	96.7	91.3	91.3	91.3	96.7	94.0	88.6	94.0	94.0	91.3
87.5°	34.9	32.2	32.2	32.2	32.2	32.2	34.9	37.6	37.6	37.6	40.3
90°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	13.6	18.2	20.4	17.5
92.5°	51.1	49.1	41.0	32.9	41.0	49.1	51.1	72.4	100.9	115.1	101.1
95°	173.5	167.3	142.7	118.1	142.7	167.3	173.5	227.9	300.3	336.5	284.3
97.5°	400.6	388.8	342.0	295.1	342.0	388.8	400.6	434.9	480.7	503.6	416.4
100°	562.5	548.6	492.8	436.9	492.8	548.6	562.5	560.0	556.7	555.0	458.2
102.5°	700.8	688.8	641.0	593.1	641.0	688.8	700.8	657.0	598.7	569.5	471.4
105°	862.2	855.7	830.0	804.3	830.0	855.7	862.2	764.1	633.3	567.9	472.8
107.5°	946.2	947.7	954.0	960.1	954.0	947.7	946.2	809.3	626.8	535.6	451.8
110°	967.7	974.4	1001.1	1027.9	1001.1	974.4	967.7	814.6	610.7	508.7	433.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	954.0	964.3	1005.3	1046.4	1005.3	964.3	954.0	797.4	588.7	484.3	416.9
115°	907.4	921.6	978.7	1035.7	978.7	921.6	907.4	756.5	555.5	454.9	398.1
117.5°	843.1	859.0	922.2	985.4	922.2	859.0	843.1	707.0	525.5	434.8	386.5
120°	799.8	815.2	876.6	938.0	876.6	815.2	799.8	675.4	509.5	426.6	382.5
122.5°	756.4	771.6	832.3	892.9	832.3	771.6	756.4	644.4	495.1	420.4	380.4
125°	699.1	713.1	768.9	824.8	768.9	713.1	699.1	604.0	477.1	413.7	378.8
127.5°	653.1	664.9	712.0	759.1	712.0	664.9	653.1	571.5	462.5	408.1	377.8
130°	624.1	635.0	678.6	722.1	678.6	635.0	624.1	551.4	454.5	405.9	378.4
132.5°	599.4	609.2	648.1	687.1	648.1	609.2	599.4	534.3	447.5	404.1	378.8
135°	564.4	572.8	606.4	640.0	606.4	572.8	564.4	509.9	437.2	400.8	378.4
137.5°	538.5	545.4	572.9	600.5	572.9	545.4	538.5	492.4	431.0	400.3	380.8
140°	517.8	524.3	550.0	575.7	550.0	524.3	517.8	478.0	424.9	398.4	381.1
142.5°	503.3	508.9	531.0	553.1	531.0	508.9	503.3	468.3	421.7	398.4	382.5
145°	481.5	485.7	502.4	519.2	502.4	485.7	481.5	452.9	414.8	395.7	382.5
147.5°	463.2	466.7	480.6	494.5	480.6	466.7	463.2	440.8	410.8	395.7	385.2
150°	452.8	455.5	466.8	478.0	466.8	455.5	452.8	433.8	408.4	395.7	386.5
152.5°	444.4	446.6	455.0	463.5	455.0	446.6	444.4	428.2	406.6	395.7	387.4
155°	434.5	435.9	441.5	447.1	441.5	435.9	434.5	421.6	404.3	395.7	389.4
157.5°	425.8	426.8	430.8	434.8	430.8	426.8	425.8	415.8	402.4	395.7	391.3
160°	421.5	422.1	424.4	426.6	424.4	422.1	421.5	412.9	401.5	395.7	392.2
162.5°	417.5	418.0	420.2	422.3	420.2	418.0	417.5	410.2	400.6	395.7	393.2
165°	411.3	411.8	414.2	416.4	414.2	411.8	411.3	406.1	399.2	395.7	394.6
167.5°	408.6	408.9	409.8	410.8	409.8	408.9	408.6	405.2	400.7	398.4	397.4
170°	408.6	408.6	408.6	408.6	408.6	408.6	408.6	405.2	400.7	398.4	398.3
172.5°	406.5	406.3	405.4	404.6	405.4	406.3	406.5	403.8	400.2	398.4	398.4
175°	403.5	403.5	403.5	403.5	403.5	403.5	403.5	401.8	399.6	398.4	399.0
177.5°	403.0	402.7	401.8	400.8	401.8	402.7	403.0	401.6	399.8	399.0	399.4
180°	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2804.2	2817.6	2825.7	2836.4	2863.3
5°	2696.8	2747.8	2763.9	2804.2	2852.6
7.5°	2460.4	2616.2	2659.2	2755.9	2831.1
10°	2232.0	2387.9	2463.1	2691.4	2804.2
12.5°	2116.5	2207.8	2258.9	2578.6	2766.6
15°	2044.0	2108.5	2146.1	2428.2	2723.6
17.5°	1987.6	2033.3	2060.1	2280.4	2664.5
20°	1952.7	1974.2	1998.3	2172.9	2597.4
22.5°	1928.5	1915.1	1933.9	2097.7	2506.1
25°	1912.4	1861.4	1882.8	2038.6	2398.6
27.5°	1925.8	1813.0	1821.1	1984.9	2285.7
30°	1928.5	1753.9	1756.6	1928.5	2159.5
32.5°	1909.7	1692.1	1694.8	1858.7	2017.1
35°	1864.0	1619.6	1616.9	1778.1	1823.8
37.5°	1802.3	1541.7	1541.7	1689.5	1611.6
40°	1727.1	1463.8	1471.9	1574.0	1423.5
42.5°	1635.7	1380.6	1391.3	1420.9	1283.9
45°	1536.4	1300.0	1308.1	1200.6	1176.4
47.5°	1426.2	1216.7	1219.4	996.5	1141.5
50°	1294.6	1130.8	1120.0	854.1	1138.8
52.5°	1179.1	1036.8	1004.5	773.5	1034.1
55°	1066.3	937.4	867.6	711.8	958.9
57.5°	966.9	808.5	741.3	639.3	942.8
60°	875.6	682.2	631.2	561.4	864.9
62.5°	800.4	588.2	577.5	507.6	784.3
65°	719.8	523.8	521.1	462.0	666.1
67.5°	641.9	480.8	478.1	419.0	507.6
70°	558.7	435.1	429.7	373.3	376.0
72.5°	472.7	384.1	378.7	335.7	311.6
75°	386.8	325.0	322.3	292.8	252.5
77.5°	303.5	257.8	263.2	236.4	185.3
80°	217.6	188.0	193.4	169.2	139.7
82.5°	145.0	123.6	128.9	107.4	94.0
85°	80.6	69.8	72.5	56.4	43.0
87.5°	37.6	32.2	32.2	21.5	13.4
90°	11.8	7.5	7.0	4.8	2.7
92.5°	73.0	51.9	47.4	29.0	10.7
95°	179.6	101.2	92.8	59.3	25.8
97.5°	241.9	111.1	103.8	74.2	44.7
100°	264.7	119.4	112.7	85.9	59.2
102.5°	275.0	127.8	121.5	96.5	71.5
105°	282.7	140.1	134.8	113.7	92.6
107.5°	284.2	158.5	153.5	133.8	114.1
110°	282.0	168.7	164.2	146.4	128.6



TEST NUMBER: P933954

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	282.1	181.0	176.8	159.8	142.9
115°	284.7	199.7	195.7	180.0	164.4
117.5°	290.0	217.7	214.1	199.8	185.6
120°	294.3	228.1	224.8	211.4	198.0
122.5°	300.5	240.5	237.1	223.6	210.1
125°	308.9	256.4	253.4	241.0	228.7
127.5°	317.2	271.7	268.6	256.1	243.7
130°	323.3	281.9	278.6	265.2	251.8
132.5°	328.2	290.3	286.9	273.5	260.2
135°	333.6	299.9	296.9	284.7	272.5
137.5°	341.7	312.3	309.2	297.2	285.2
140°	346.6	320.7	317.9	306.7	295.6
142.5°	350.7	326.9	324.3	314.0	303.7
145°	356.1	336.3	334.0	325.1	316.1
147.5°	363.9	348.1	345.9	337.2	328.5
150°	368.1	354.3	352.3	344.4	336.5
152.5°	370.7	358.3	356.8	350.9	344.9
155°	376.7	367.2	366.1	361.6	357.2
157.5°	382.7	376.1	375.0	370.7	366.4
160°	385.3	380.1	379.3	375.9	372.6
162.5°	388.2	384.4	383.8	381.3	378.8
165°	392.3	390.6	390.1	387.8	385.5
167.5°	395.5	394.1	393.8	392.8	391.7
170°	398.2	398.1	397.9	396.8	395.7
172.5°	398.4	398.4	398.3	398.1	397.9
175°	400.0	400.8	400.8	400.8	400.8
177.5°	400.2	400.8	400.8	400.8	400.8
180°	400.8	400.8	400.8	400.8	400.8



TEST NUMBER: P933954
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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	14.33	15.45	15.05	16.19	17.08	17.18	18.30	17.90	19.04	19.93
	3H	14.82	15.83	15.56	16.59	17.50	18.55	19.56	19.28	20.31	21.23
	4H	15.03	15.98	15.78	16.74	17.67	19.01	19.96	19.76	20.73	21.65
	6H	15.16	16.04	15.92	16.81	17.75	19.31	20.19	20.08	20.96	21.91
	8H	15.17	16.01	15.94	16.80	17.74	19.40	20.24	20.17	21.03	21.97
	12H	15.15	15.95	15.93	16.73	17.70	19.45	20.25	20.23	21.03	22.00
4H	2H	15.39	16.35	16.15	17.11	18.04	17.62	18.57	18.37	19.33	20.26
	3H	16.45	17.24	17.22	18.04	18.98	19.15	19.95	19.92	20.75	21.69
	4H	16.73	17.46	17.52	18.25	19.23	19.70	20.42	20.48	21.22	22.19
	6H	16.87	17.50	17.68	18.32	19.30	20.08	20.71	20.88	21.53	22.51
	8H	16.89	17.47	17.69	18.29	19.28	20.20	20.78	21.00	21.60	22.59
	12H	16.87	17.39	17.69	18.23	19.23	20.27	20.80	21.10	21.64	22.63
8H	4H	17.21	17.80	18.02	18.61	19.61	19.84	20.43	20.65	21.24	22.24
	6H	17.48	17.97	18.32	18.83	19.82	20.30	20.78	21.13	21.64	22.63
	8H	17.53	17.96	18.38	18.82	19.83	20.45	20.88	21.30	21.74	22.75
	12H	17.53	17.91	18.37	18.75	19.82	20.57	20.95	21.42	21.79	22.86
12H	4H	17.23	17.76	18.06	18.60	19.59	19.82	20.35	20.65	21.18	22.18
	6H	17.55	17.98	18.39	18.84	19.84	20.29	20.73	21.14	21.58	22.59
	8H	17.63	18.01	18.48	18.85	19.92	20.47	20.85	21.32	21.70	22.76