

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: P934429

Luminaire Tested: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934429
REPORT IS A COMBINATION OF REPORTS P933697 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

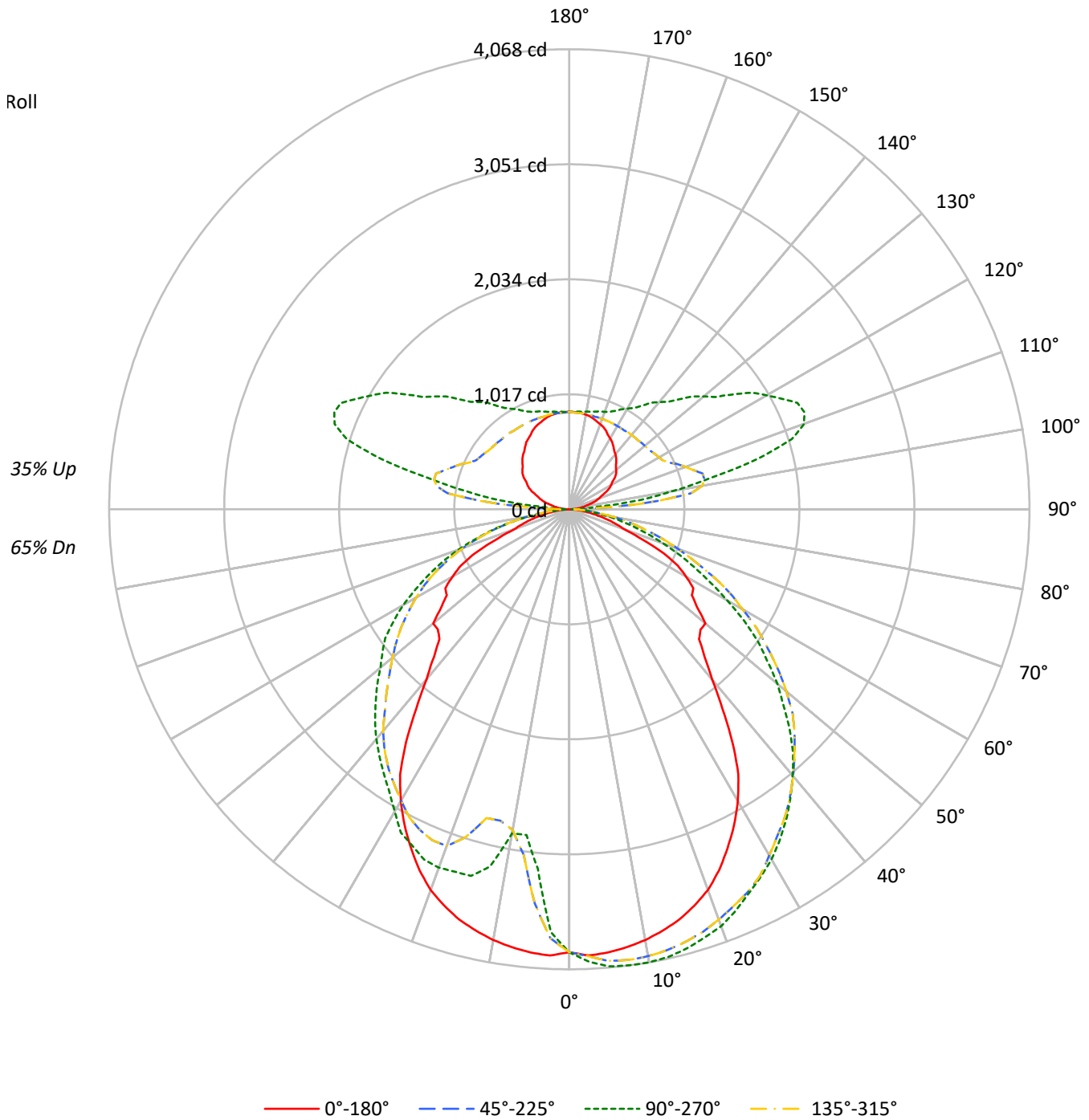
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15739.5 lumens
Efficiency: N/A
Efficacy: 116.1 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): 135.6
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
RCR																				
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65		
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55		
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46		
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39		
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33		
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12112	12112	12112	12112
5°	12208	12227	12208	9615
10°	12130	12044	12130	8611
15°	12003	11783	12003	9839
20°	11757	11474	11757	9860
25°	11248	11024	11248	9651
30°	10588	10649	10588	9193
35°	9444	10176	9444	8688
40°	7873	9618	7873	8307
45°	7039	8966	7039	7869
50°	7485	8188	7485	7430
55°	7048	7349	7048	7175
60°	7275	6242	7275	6572
65°	6606	5160	6606	5768
70°	4586	4112	4586	4835
75°	4037	3040	4037	3640
80°	3276	2009	3276	2188
85°	1921	1064	1921	905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10783 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.5	2.2
10°-20°	1003.7	6.4
20°-30°	1551.5	9.9
30°-40°	1852.1	11.8
40°-50°	1863.0	11.8
50°-60°	1621.0	10.3
60°-70°	1149.3	7.3
70°-80°	608.1	3.9
80°-90°	154.7	1.0
90°-100°	419.8	2.7
100°-110°	1103.6	7.0
110°-120°	1144.3	7.3
120°-130°	917.9	5.8
130°-140°	720.2	4.6
140°-150°	552.8	3.5
150°-160°	398.1	2.5
160°-170°	243.6	1.5
170°-180°	82.3	0.5
0°-30°	2908.7	18.5
0°-40°	4760.8	30.2
0°-60°	8244.9	52.4
0°-90°	10157.0	64.5
90°-120°	2667.6	16.9
90°-150°	4858.5	30.9
90°-180°	5582.0	35.5
0°-180°	15739.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3916	3916	3916	3916	3916	
5°	3935	4057	3935	3190	3935	373
15°	3757	4020	3757	3357	3757	1057
25°	3308	3749	3308	3282	3308	1519
35°	2516	3346	2516	2856	2516	1556
45°	1623	2756	1623	2419	1623	1300
55°	1323	2034	1323	1986	1323	1215
65°	919	1226	919	1371	919	878
75°	348	582	348	696	348	366
85°	59	148	59	126	59	80
90°	6	22	6	22	6	7
95°	56	254	56	254	56	62
105°	199	1728	199	1728	199	211
115°	353	2225	353	2225	353	349
125°	491	1772	491	1772	491	436
135°	586	1375	586	1375	586	453
145°	679	1116	679	1116	679	425
155°	768	961	768	961	768	353
165°	828	895	828	895	828	234
175°	861	867	861	867	861	82
180°	861	861	861	861	861	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	3949.4	3949.4	3971.7	3979.0	3979.0	3967.9	3956.8	3967.9	4001.3	4012.4	4008.7
5°	3934.6	3964.3	4005.0	4012.4	4019.8	4016.2	4008.7	4016.2	4053.2	4060.5	4064.3
7.5°	3904.9	3960.5	4012.4	4023.5	4034.7	4023.5	4019.8	4027.3	4064.3	4071.7	4071.7
10°	3867.9	3945.8	4005.0	4012.4	4023.5	4012.4	4012.4	4027.3	4064.3	4071.7	4075.4
12.5°	3816.0	3923.5	3979.0	3986.5	4001.3	3997.6	3993.9	4008.7	4045.8	4053.2	4053.2
15°	3756.8	3882.8	3934.6	3942.0	3967.9	3960.5	3960.5	3975.4	4016.2	4027.3	4023.5
17.5°	3675.3	3830.9	3890.2	3901.3	3919.8	3916.0	3919.8	3934.6	3971.7	3979.0	3982.8
20°	3582.6	3760.5	3830.9	3842.0	3860.5	3860.5	3860.5	3879.0	3916.0	3930.9	3930.9
22.5°	3456.6	3686.4	3760.5	3767.9	3790.1	3790.1	3797.5	3823.4	3856.8	3860.5	3860.5
25°	3308.5	3604.9	3667.9	3690.1	3712.3	3723.4	3734.5	3749.4	3760.5	3756.8	3760.5
27.5°	3152.9	3501.1	3582.6	3597.5	3627.1	3638.2	3653.0	3656.8	3660.4	3671.5	3664.1
30°	2978.7	3356.6	3478.9	3493.7	3541.9	3549.3	3534.5	3541.9	3560.4	3567.9	3575.3
32.5°	2782.3	3141.7	3371.5	3404.8	3449.3	3427.0	3423.4	3434.5	3464.1	3464.1	3471.5
35°	2515.7	2975.1	3271.5	3301.1	3334.4	3308.5	3323.3	3327.0	3345.5	3356.6	3353.0
37.5°	2222.9	2830.6	3167.7	3190.0	3215.9	3182.5	3204.7	3215.9	3230.7	3223.2	3223.2
40°	1963.6	2604.6	3045.5	3060.2	3082.5	3056.6	3078.7	3086.2	3093.6	3086.2	3082.5
42.5°	1771.0	2356.3	2915.7	2934.3	2919.5	2938.0	2945.4	2960.2	2949.1	2934.3	2934.3
45°	1622.7	2289.7	2775.0	2797.2	2775.0	2804.6	2815.7	2815.7	2782.3	2775.0	2771.3
47.5°	1574.6	2156.3	2634.2	2634.2	2623.1	2660.1	2678.7	2652.7	2619.3	2608.3	2608.3
50°	1570.9	2008.0	2441.5	2426.7	2478.6	2523.1	2504.5	2478.6	2452.7	2411.9	2411.9
52.5°	1426.4	1826.5	2193.3	2248.9	2330.4	2356.3	2326.7	2300.8	2256.3	2237.8	2222.9
55°	1322.6	1637.6	1967.3	2078.4	2163.7	2197.0	2141.4	2115.5	2048.8	2037.7	2030.3
57.5°	1300.5	1363.4	1759.9	1900.6	2004.4	2000.6	1967.3	1919.1	1863.5	1852.5	1848.8
60°	1193.0	985.5	1537.5	1704.2	1811.7	1800.6	1771.0	1726.5	1674.6	1667.2	1659.8
62.5°	1081.8	715.1	1285.6	1474.6	1626.5	1622.7	1596.9	1530.1	1493.1	1474.6	1459.7
65°	918.8	600.2	915.1	1226.3	1444.9	1452.3	1396.7	1348.6	1307.8	1285.6	1281.9
67.5°	700.2	489.0	618.7	1022.6	1270.8	1263.3	1193.0	1170.7	1118.8	1107.7	1085.6
70°	518.7	326.0	429.8	829.9	1100.3	1081.8	1026.2	1000.3	952.2	926.2	911.4
72.5°	429.8	263.0	314.9	644.7	926.2	904.0	855.8	826.2	785.4	763.2	748.4
75°	348.3	277.9	240.8	477.9	752.1	737.3	692.8	663.2	629.8	600.2	603.9
77.5°	255.6	259.4	192.6	352.0	596.5	574.3	548.3	511.3	496.4	466.8	466.8
80°	192.6	203.8	144.5	240.8	429.8	429.8	407.5	381.6	355.7	340.9	340.9
82.5°	129.6	129.6	107.4	151.9	292.7	281.5	266.8	259.4	244.5	237.1	237.1
85°	59.3	74.1	66.6	92.6	159.3	166.8	166.8	159.3	155.6	148.2	151.9
87.5°	18.5	33.4	40.8	51.9	81.5	85.2	88.9	88.9	88.9	92.6	92.6
90°	5.8	10.4	15.0	16.2	25.4	37.8	43.9	39.1	29.3	22.0	22.0
92.5°	23.1	62.3	101.7	111.5	156.8	217.1	247.3	216.8	155.6	109.8	105.4
95°	55.5	127.4	199.4	217.3	385.8	610.6	723.0	645.1	489.5	372.8	359.5
97.5°	95.9	159.4	222.8	238.7	519.8	894.5	1081.9	1032.8	934.3	860.6	835.4
100°	127.1	184.7	242.2	256.6	568.5	984.3	1192.3	1195.9	1203.1	1208.5	1178.5
102.5°	153.8	207.4	261.1	274.5	590.8	1012.7	1223.5	1286.2	1411.5	1505.5	1479.8
105°	198.8	244.2	289.7	301.1	607.4	1015.8	1220.1	1360.6	1641.5	1852.3	1838.5
107.5°	245.1	287.4	329.9	340.4	610.5	970.7	1150.7	1346.7	1738.7	2032.7	2036.1
110°	276.3	314.5	352.9	362.4	605.9	930.6	1093.0	1312.0	1750.2	2078.9	2093.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	306.9	343.3	379.8	388.9	606.1	895.5	1040.3	1264.6	1713.0	2049.4	2071.5
115°	353.1	386.8	420.4	428.8	611.7	855.4	977.3	1193.3	1625.4	1949.4	1980.1
117.5°	398.7	429.3	459.9	467.5	623.0	830.3	934.0	1128.9	1518.8	1811.3	1845.2
120°	425.4	454.2	482.9	490.1	632.2	821.9	916.7	1094.8	1451.0	1718.3	1751.3
122.5°	451.4	480.4	509.4	516.7	645.6	817.4	903.3	1063.7	1384.6	1625.2	1657.7
125°	491.3	517.7	544.2	550.8	663.5	813.8	888.9	1025.2	1297.7	1502.1	1532.1
127.5°	523.6	550.4	577.1	583.7	681.4	811.6	876.8	993.8	1227.7	1403.3	1428.6
130°	541.0	569.8	598.5	605.7	694.5	812.9	872.2	976.3	1184.6	1340.8	1364.2
132.5°	558.9	587.6	616.4	623.6	705.1	813.8	868.1	961.3	1147.8	1287.7	1308.6
135°	585.5	611.7	637.8	644.4	716.6	813.0	861.1	939.3	1095.5	1212.6	1230.6
137.5°	612.6	638.6	664.6	671.0	734.0	818.1	860.0	926.0	1058.1	1157.1	1171.8
140°	635.1	659.1	682.9	688.9	744.6	818.8	855.9	912.9	1027.1	1112.6	1126.4
142.5°	652.5	674.6	696.7	702.2	753.5	821.8	855.9	906.0	1006.2	1081.4	1093.2
145°	679.1	698.3	717.6	722.4	765.1	821.8	850.2	891.1	973.1	1034.5	1043.5
147.5°	705.7	724.4	743.2	747.9	782.0	827.5	850.2	882.5	947.0	995.3	1002.8
150°	723.0	739.9	756.9	761.1	790.9	830.4	850.2	877.4	931.8	972.7	978.7
152.5°	740.9	753.7	766.6	769.8	796.6	832.4	850.2	873.5	919.9	954.8	959.4
155°	767.5	777.0	786.6	788.9	809.4	836.6	850.2	868.7	905.6	933.4	936.4
157.5°	787.2	796.5	805.6	808.0	822.1	840.9	850.2	864.6	893.3	914.9	917.0
160°	800.5	807.7	814.9	816.7	827.9	842.7	850.2	862.5	887.1	905.6	906.9
162.5°	813.8	819.2	824.6	825.9	834.0	844.8	850.2	860.6	881.3	896.9	898.1
165°	828.2	833.1	838.0	839.2	842.8	847.8	850.2	857.7	872.5	883.7	884.9
167.5°	841.5	843.8	846.1	846.7	849.7	853.9	855.9	860.8	870.6	877.9	878.4
170°	850.2	852.5	854.8	855.3	855.5	855.8	855.9	860.8	870.6	877.9	877.9
172.5°	854.8	855.3	855.8	855.9	855.9	855.9	855.9	859.7	867.5	873.3	872.8
175°	861.1	861.1	861.1	861.1	859.4	857.0	855.9	858.3	863.3	866.9	866.9
177.5°	861.1	861.1	861.1	861.1	859.8	858.1	857.1	859.1	862.9	865.8	865.3
180°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	4016.2	4005.0	4016.2	4008.7	4012.4	4001.3	3967.9	3956.8	3967.9	3979.0	3979.0
5°	4064.3	4056.9	4064.3	4064.3	4060.5	4053.2	4016.2	4008.7	4016.2	4019.8	4012.4
7.5°	4079.1	4068.0	4079.1	4071.7	4071.7	4064.3	4027.3	4019.8	4023.5	4034.7	4023.5
10°	4079.1	4068.0	4079.1	4075.4	4071.7	4064.3	4027.3	4012.4	4012.4	4023.5	4012.4
12.5°	4060.5	4053.2	4060.5	4053.2	4053.2	4045.8	4008.7	3993.9	3997.6	4001.3	3986.5
15°	4030.9	4019.8	4030.9	4023.5	4027.3	4016.2	3975.4	3960.5	3960.5	3967.9	3942.0
17.5°	3986.5	3971.7	3986.5	3982.8	3979.0	3971.7	3934.6	3919.8	3916.0	3919.8	3901.3
20°	3934.6	3923.5	3934.6	3930.9	3930.9	3916.0	3879.0	3860.5	3860.5	3860.5	3842.0
22.5°	3853.1	3842.0	3853.1	3860.5	3860.5	3856.8	3823.4	3797.5	3790.1	3790.1	3767.9
25°	3760.5	3749.4	3760.5	3760.5	3756.8	3760.5	3749.4	3734.5	3723.4	3712.3	3690.1
27.5°	3671.5	3664.1	3671.5	3664.1	3671.5	3660.4	3656.8	3653.0	3638.2	3627.1	3597.5
30°	3582.6	3575.3	3582.6	3575.3	3567.9	3560.4	3541.9	3534.5	3549.3	3541.9	3493.7
32.5°	3471.5	3464.1	3471.5	3471.5	3464.1	3464.1	3434.5	3423.4	3427.0	3449.3	3404.8
35°	3356.6	3345.5	3356.6	3353.0	3356.6	3345.5	3327.0	3323.3	3308.5	3334.4	3301.1
37.5°	3223.2	3212.1	3223.2	3223.2	3223.2	3230.7	3215.9	3204.7	3182.5	3215.9	3190.0
40°	3086.2	3071.4	3086.2	3082.5	3086.2	3093.6	3086.2	3078.7	3056.6	3082.5	3060.2
42.5°	2930.6	2926.8	2930.6	2934.3	2934.3	2949.1	2960.2	2945.4	2938.0	2919.5	2934.3
45°	2763.8	2756.4	2763.8	2771.3	2775.0	2782.3	2815.7	2815.7	2804.6	2775.0	2797.2
47.5°	2586.1	2567.5	2586.1	2608.3	2608.3	2619.3	2652.7	2678.7	2660.1	2623.1	2634.2
50°	2397.1	2400.8	2397.1	2411.9	2411.9	2452.7	2478.6	2504.5	2523.1	2478.6	2426.7
52.5°	2211.8	2208.1	2211.8	2222.9	2237.8	2256.3	2300.8	2326.7	2356.3	2330.4	2248.9
55°	2026.5	2034.0	2026.5	2030.3	2037.7	2048.8	2115.5	2141.4	2197.0	2163.7	2078.4
57.5°	1841.4	1830.2	1841.4	1848.8	1852.5	1863.5	1919.1	1967.3	2000.6	2004.4	1900.6
60°	1626.5	1611.6	1626.5	1659.8	1667.2	1674.6	1726.5	1771.0	1800.6	1811.7	1704.2
62.5°	1437.5	1411.6	1437.5	1459.7	1474.6	1493.1	1530.1	1596.9	1622.7	1626.5	1474.6
65°	1237.5	1226.3	1237.5	1281.9	1285.6	1307.8	1348.6	1396.7	1452.3	1444.9	1226.3
67.5°	1055.9	1055.9	1055.9	1085.6	1107.7	1118.8	1170.7	1193.0	1263.3	1270.8	1022.6
70°	889.2	885.4	889.2	911.4	926.2	952.2	1000.3	1026.2	1081.8	1100.3	829.9
72.5°	729.9	726.2	729.9	748.4	763.2	785.4	826.2	855.8	904.0	926.2	644.7
75°	589.1	581.7	589.1	603.9	600.2	629.8	663.2	692.8	737.3	752.1	477.9
77.5°	452.0	452.0	452.0	466.8	466.8	496.4	511.3	548.3	574.3	596.5	352.0
80°	337.1	333.4	337.1	340.9	340.9	355.7	381.6	407.5	429.8	429.8	240.8
82.5°	237.1	229.7	237.1	237.1	237.1	244.5	259.4	266.8	281.5	292.7	151.9
85°	148.2	148.2	148.2	151.9	148.2	155.6	159.3	166.8	166.8	159.3	92.6
87.5°	96.4	92.6	96.4	92.6	92.6	88.9	88.9	88.9	85.2	81.5	51.9
90°	22.0	22.0	22.0	22.0	22.0	29.3	39.1	43.9	37.8	25.4	16.2
92.5°	88.0	70.5	88.0	105.4	109.8	155.6	216.8	247.3	217.1	156.8	111.5
95°	306.6	253.7	306.6	359.5	372.8	489.5	645.1	723.0	610.6	385.8	217.3
97.5°	734.7	634.0	734.7	835.4	860.6	934.3	1032.8	1081.9	894.5	519.8	238.7
100°	1058.6	938.6	1058.6	1178.5	1208.5	1203.1	1195.9	1192.3	984.3	568.5	256.6
102.5°	1377.1	1274.4	1377.1	1479.8	1505.5	1411.5	1286.2	1223.5	1012.7	590.8	274.5
105°	1783.3	1728.1	1783.3	1838.5	1852.3	1641.5	1360.6	1220.1	1015.8	607.4	301.1
107.5°	2049.3	2062.7	2049.3	2036.1	2032.7	1738.7	1346.7	1150.7	970.7	610.5	340.4
110°	2150.8	2208.3	2150.8	2093.3	2078.9	1750.2	1312.0	1093.0	930.6	605.9	362.4



TEST NUMBER: P934429

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2159.9	2248.2	2159.9	2071.5	2049.4	1713.0	1264.6	1040.3	895.5	606.1	388.9
115°	2102.6	2225.2	2102.6	1980.1	1949.4	1625.4	1193.3	977.3	855.4	611.7	428.8
117.5°	1981.1	2117.0	1981.1	1845.2	1811.3	1518.8	1128.9	934.0	830.3	623.0	467.5
120°	1883.3	2015.3	1883.3	1751.3	1718.3	1451.0	1094.8	916.7	821.9	632.2	490.1
122.5°	1788.0	1918.2	1788.0	1657.7	1625.2	1384.6	1063.7	903.3	817.4	645.6	516.7
125°	1652.0	1772.0	1652.0	1532.1	1502.1	1297.7	1025.2	888.9	813.8	663.5	550.8
127.5°	1529.7	1631.0	1529.7	1428.6	1403.3	1227.7	993.8	876.8	811.6	681.4	583.7
130°	1457.8	1551.2	1457.8	1364.2	1340.8	1184.6	976.3	872.2	812.9	694.5	605.7
132.5°	1392.3	1476.1	1392.3	1308.6	1287.7	1147.8	961.3	868.1	813.8	705.1	623.6
135°	1302.8	1375.0	1302.8	1230.6	1212.6	1095.5	939.3	861.1	813.0	716.6	644.4
137.5°	1230.9	1290.0	1230.9	1171.8	1157.1	1058.1	926.0	860.0	818.1	734.0	671.0
140°	1181.6	1236.8	1181.6	1126.4	1112.6	1027.1	912.9	855.9	818.8	744.6	688.9
142.5°	1140.8	1188.3	1140.8	1093.2	1081.4	1006.2	906.0	855.9	821.8	753.5	702.2
145°	1079.5	1115.5	1079.5	1043.5	1034.5	973.1	891.1	850.2	821.8	765.1	722.4
147.5°	1032.5	1062.3	1032.5	1002.8	995.3	947.0	882.5	850.2	827.5	782.0	747.9
150°	1002.8	1027.1	1002.8	978.7	972.7	931.8	877.4	850.2	830.4	790.9	761.1
152.5°	977.6	995.8	977.6	959.4	954.8	919.9	873.5	850.2	832.4	796.6	769.8
155°	948.5	960.6	948.5	936.4	933.4	905.6	868.7	850.2	836.6	809.4	788.9
157.5°	925.5	934.0	925.5	917.0	914.9	893.3	864.6	850.2	840.9	822.1	808.0
160°	911.8	916.7	911.8	906.9	905.6	887.1	862.5	850.2	842.7	827.9	816.7
162.5°	902.7	907.4	902.7	898.1	896.9	881.3	860.6	850.2	844.8	834.0	825.9
165°	889.8	894.7	889.8	884.9	883.7	872.5	857.7	850.2	847.8	842.8	839.2
167.5°	880.5	882.5	880.5	878.4	877.9	870.6	860.8	855.9	853.9	849.7	846.7
170°	877.9	877.9	877.9	877.9	877.9	870.6	860.8	855.9	855.8	855.5	855.3
172.5°	871.1	869.3	871.1	872.8	873.3	867.5	859.7	855.9	855.9	855.9	855.9
175°	866.9	866.9	866.9	866.9	866.9	863.3	858.3	855.9	857.0	859.4	861.1
177.5°	863.2	861.1	863.2	865.3	865.8	862.9	859.1	857.1	858.1	859.8	861.1
180°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1



TEST NUMBER: P934429

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	3971.7	3949.4	3949.4	3912.4	3897.5	3886.4	3867.9	3812.4	3797.5	3782.7	3804.9
5°	4005.0	3964.3	3934.6	3867.9	3812.4	3790.1	3719.8	3586.4	3497.4	3430.7	3393.7
7.5°	4012.4	3960.5	3904.9	3801.3	3667.9	3608.6	3393.7	3149.2	3082.5	3023.2	2986.1
10°	4005.0	3945.8	3867.9	3712.3	3397.4	3293.6	3078.7	2919.5	2878.7	2867.6	2878.7
12.5°	3979.0	3923.5	3816.0	3556.7	3115.8	3045.5	2919.5	2826.8	2819.4	2838.0	2938.0
15°	3934.6	3882.8	3756.8	3349.2	2960.2	2908.3	2819.4	2786.1	2826.8	2956.5	3256.6
17.5°	3890.2	3830.9	3675.3	3145.5	2841.7	2804.6	2741.6	2808.3	3038.0	3212.1	3312.2
20°	3830.9	3760.5	3582.6	2997.2	2756.4	2723.1	2693.4	2993.6	3167.7	3230.7	3286.2
22.5°	3760.5	3686.4	3456.6	2893.6	2667.6	2641.6	2660.1	3097.3	3167.7	3212.1	3260.3
25°	3667.9	3604.9	3308.5	2812.1	2597.2	2567.5	2637.9	3086.2	3127.0	3138.1	3234.4
27.5°	3582.6	3501.1	3152.9	2737.9	2511.9	2500.8	2656.4	3038.0	3067.7	3078.7	3182.5
30°	3478.9	3356.6	2978.7	2660.1	2423.0	2419.3	2660.1	2978.7	2971.3	3001.0	3104.7
32.5°	3371.5	3141.7	2782.3	2563.8	2337.8	2334.1	2634.2	2889.8	2882.4	2923.2	3001.0
35°	3271.5	2975.1	2515.7	2452.7	2230.4	2234.0	2571.2	2786.1	2789.8	2826.8	2875.0
37.5°	3167.7	2830.6	2222.9	2330.4	2126.6	2126.6	2485.9	2689.8	2682.3	2693.4	2760.2
40°	3045.5	2604.6	1963.6	2171.0	2030.3	2019.2	2382.3	2586.1	2560.1	2556.4	2649.1
42.5°	2915.7	2356.3	1771.0	1959.9	1919.1	1904.3	2256.3	2460.1	2411.9	2423.0	2541.6
45°	2775.0	2289.7	1622.7	1656.1	1804.3	1793.1	2119.2	2315.5	2282.2	2311.9	2434.2
47.5°	2634.2	2156.3	1574.6	1374.5	1682.0	1678.4	1967.3	2174.8	2156.3	2185.9	2315.5
50°	2441.5	2008.0	1570.9	1178.2	1545.0	1559.7	1785.8	2037.7	2037.7	2063.6	2200.7
52.5°	2193.3	1826.5	1426.4	1067.0	1385.6	1430.1	1626.5	1919.1	1926.5	1952.5	2074.8
55°	1967.3	1637.6	1322.6	981.8	1196.7	1293.0	1470.9	1796.9	1811.7	1837.6	1948.8
57.5°	1759.9	1363.4	1300.5	881.8	1022.6	1115.2	1333.7	1678.4	1685.7	1708.0	1815.4
60°	1537.5	985.5	1193.0	774.3	870.7	941.1	1207.8	1537.5	1563.5	1578.3	1670.9
62.5°	1285.6	715.1	1081.8	700.2	796.6	811.4	1104.1	1404.1	1437.5	1448.6	1504.2
65°	915.1	600.2	918.8	637.3	718.8	722.4	992.9	1267.1	1296.7	1315.2	1356.0
67.5°	618.7	489.0	700.2	577.9	659.4	663.2	885.4	1107.7	1148.5	1163.3	1189.3
70°	429.8	326.0	518.7	515.0	592.8	600.2	770.7	963.3	1000.3	1011.4	1026.2
72.5°	314.9	263.0	429.8	463.1	522.4	529.8	652.1	800.3	837.3	848.4	855.8
75°	240.8	277.9	348.3	403.8	444.5	448.3	533.5	652.1	678.0	685.4	689.1
77.5°	192.6	259.4	255.6	326.0	363.0	355.7	418.7	503.9	526.1	526.1	526.1
80°	144.5	203.8	192.6	233.4	266.8	259.4	300.1	359.4	366.8	374.2	370.5
82.5°	107.4	129.6	129.6	148.2	177.9	170.4	200.0	233.4	233.4	233.4	240.8
85°	66.6	74.1	59.3	77.8	100.0	96.4	111.1	126.0	129.6	129.6	122.3
87.5°	40.8	33.4	18.5	29.6	44.5	44.5	51.9	55.6	51.9	51.9	51.9
90°	15.0	10.4	5.8	10.4	15.0	16.2	25.4	37.8	43.9	39.1	29.3
92.5°	101.7	62.3	23.1	62.3	101.7	111.5	156.8	217.1	247.3	216.8	155.6
95°	199.4	127.4	55.5	127.4	199.4	217.3	385.8	610.6	723.0	645.1	489.5
97.5°	222.8	159.4	95.9	159.4	222.8	238.7	519.8	894.5	1081.9	1032.8	934.3
100°	242.2	184.7	127.1	184.7	242.2	256.6	568.5	984.3	1192.3	1195.9	1203.1
102.5°	261.1	207.4	153.8	207.4	261.1	274.5	590.8	1012.7	1223.5	1286.2	1411.5
105°	289.7	244.2	198.8	244.2	289.7	301.1	607.4	1015.8	1220.1	1360.6	1641.5
107.5°	329.9	287.4	245.1	287.4	329.9	340.4	610.5	970.7	1150.7	1346.7	1738.7
110°	352.9	314.5	276.3	314.5	352.9	362.4	605.9	930.6	1093.0	1312.0	1750.2



TEST NUMBER: P934429

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	379.8	343.3	306.9	343.3	379.8	388.9	606.1	895.5	1040.3	1264.6	1713.0
115°	420.4	386.8	353.1	386.8	420.4	428.8	611.7	855.4	977.3	1193.3	1625.4
117.5°	459.9	429.3	398.7	429.3	459.9	467.5	623.0	830.3	934.0	1128.9	1518.8
120°	482.9	454.2	425.4	454.2	482.9	490.1	632.2	821.9	916.7	1094.8	1451.0
122.5°	509.4	480.4	451.4	480.4	509.4	516.7	645.6	817.4	903.3	1063.7	1384.6
125°	544.2	517.7	491.3	517.7	544.2	550.8	663.5	813.8	888.9	1025.2	1297.7
127.5°	577.1	550.4	523.6	550.4	577.1	583.7	681.4	811.6	876.8	993.8	1227.7
130°	598.5	569.8	541.0	569.8	598.5	605.7	694.5	812.9	872.2	976.3	1184.6
132.5°	616.4	587.6	558.9	587.6	616.4	623.6	705.1	813.8	868.1	961.3	1147.8
135°	637.8	611.7	585.5	611.7	637.8	644.4	716.6	813.0	861.1	939.3	1095.5
137.5°	664.6	638.6	612.6	638.6	664.6	671.0	734.0	818.1	860.0	926.0	1058.1
140°	682.9	659.1	635.1	659.1	682.9	688.9	744.6	818.8	855.9	912.9	1027.1
142.5°	696.7	674.6	652.5	674.6	696.7	702.2	753.5	821.8	855.9	906.0	1006.2
145°	717.6	698.3	679.1	698.3	717.6	722.4	765.1	821.8	850.2	891.1	973.1
147.5°	743.2	724.4	705.7	724.4	743.2	747.9	782.0	827.5	850.2	882.5	947.0
150°	756.9	739.9	723.0	739.9	756.9	761.1	790.9	830.4	850.2	877.4	931.8
152.5°	766.6	753.7	740.9	753.7	766.6	769.8	796.6	832.4	850.2	873.5	919.9
155°	786.6	777.0	767.5	777.0	786.6	788.9	809.4	836.6	850.2	868.7	905.6
157.5°	805.6	796.5	787.2	796.5	805.6	808.0	822.1	840.9	850.2	864.6	893.3
160°	814.9	807.7	800.5	807.7	814.9	816.7	827.9	842.7	850.2	862.5	887.1
162.5°	824.6	819.2	813.8	819.2	824.6	825.9	834.0	844.8	850.2	860.6	881.3
165°	838.0	833.1	828.2	833.1	838.0	839.2	842.8	847.8	850.2	857.7	872.5
167.5°	846.1	843.8	841.5	843.8	846.1	846.7	849.7	853.9	855.9	860.8	870.6
170°	854.8	852.5	850.2	852.5	854.8	855.3	855.5	855.8	855.9	860.8	870.6
172.5°	855.8	855.3	854.8	855.3	855.8	855.9	855.9	855.9	855.9	859.7	867.5
175°	861.1	861.1	861.1	861.1	861.1	861.1	859.4	857.0	855.9	858.3	863.3
177.5°	861.1	861.1	861.1	861.1	861.1	861.1	859.8	858.1	857.1	859.1	862.9
180°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1



TEST NUMBER: P934429

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	3779.0	3767.9	3782.7	3741.9	3782.7	3767.9	3779.0	3804.9	3782.7	3797.5	3812.4
5°	3315.9	3297.4	3238.1	3190.0	3238.1	3297.4	3315.9	3393.7	3430.7	3497.4	3586.4
7.5°	2964.0	2949.1	2934.3	2904.6	2934.3	2949.1	2964.0	2986.1	3023.2	3082.5	3149.2
10°	2886.1	2889.8	2912.1	2908.3	2912.1	2889.8	2886.1	2878.7	2867.6	2878.7	2919.5
12.5°	3086.2	3119.5	3241.7	3234.4	3241.7	3119.5	3086.2	2938.0	2838.0	2819.4	2826.8
15°	3315.9	3327.0	3353.0	3356.6	3353.0	3327.0	3315.9	3256.6	2956.5	2826.8	2786.1
17.5°	3338.1	3341.9	3360.4	3360.4	3360.4	3341.9	3338.1	3312.2	3212.1	3038.0	2808.3
20°	3319.6	3327.0	3364.0	3371.5	3364.0	3327.0	3319.6	3286.2	3230.7	3167.7	2993.6
22.5°	3312.2	3327.0	3356.6	3353.0	3356.6	3327.0	3312.2	3260.3	3212.1	3167.7	3097.3
25°	3275.1	3275.1	3278.9	3282.5	3278.9	3275.1	3275.1	3234.4	3138.1	3127.0	3086.2
27.5°	3197.3	3204.7	3227.0	3223.2	3227.0	3204.7	3197.3	3182.5	3078.7	3067.7	3038.0
30°	3127.0	3119.5	3101.0	3086.2	3101.0	3119.5	3127.0	3104.7	3001.0	2971.3	2978.7
32.5°	3008.4	2989.8	2971.3	2960.2	2971.3	2989.8	3008.4	3001.0	2923.2	2882.4	2889.8
35°	2867.6	2871.3	2867.6	2856.5	2867.6	2871.3	2867.6	2875.0	2826.8	2789.8	2786.1
37.5°	2767.6	2775.0	2771.3	2756.4	2771.3	2775.0	2767.6	2760.2	2693.4	2682.3	2689.8
40°	2663.8	2667.6	2663.8	2652.7	2663.8	2667.6	2663.8	2649.1	2556.4	2560.1	2586.1
42.5°	2563.8	2560.1	2548.9	2541.6	2548.9	2560.1	2563.8	2541.6	2423.0	2411.9	2460.1
45°	2448.9	2452.7	2430.4	2419.3	2430.4	2452.7	2448.9	2434.2	2311.9	2282.2	2315.5
47.5°	2334.1	2334.1	2315.5	2304.4	2315.5	2334.1	2334.1	2315.5	2185.9	2156.3	2174.8
50°	2211.8	2208.1	2182.2	2178.5	2182.2	2208.1	2211.8	2200.7	2063.6	2037.7	2037.7
52.5°	2071.0	2071.0	2074.8	2082.2	2074.8	2071.0	2071.0	2074.8	1952.5	1926.5	1919.1
55°	1948.8	1952.5	1978.4	1985.8	1978.4	1952.5	1948.8	1948.8	1837.6	1811.7	1796.9
57.5°	1822.8	1822.8	1841.4	1841.4	1841.4	1822.8	1822.8	1815.4	1708.0	1685.7	1678.4
60°	1678.4	1685.7	1700.5	1696.9	1700.5	1685.7	1678.4	1670.9	1578.3	1563.5	1537.5
62.5°	1526.4	1533.9	1537.5	1530.1	1537.5	1533.9	1526.4	1504.2	1448.6	1437.5	1404.1
65°	1367.1	1374.5	1378.2	1370.8	1378.2	1374.5	1367.1	1356.0	1315.2	1296.7	1267.1
67.5°	1204.1	1200.3	1196.7	1211.5	1196.7	1200.3	1204.1	1189.3	1163.3	1148.5	1107.7
70°	1037.3	1037.3	1033.7	1041.1	1033.7	1037.3	1037.3	1026.2	1011.4	1000.3	963.3
72.5°	859.6	855.8	870.7	859.6	870.7	855.8	859.6	855.8	848.4	837.3	800.3
75°	685.4	692.8	685.4	696.5	685.4	692.8	685.4	689.1	685.4	678.0	652.1
77.5°	522.4	529.8	522.4	522.4	522.4	529.8	522.4	526.1	526.1	526.1	503.9
80°	370.5	366.8	366.8	363.0	366.8	366.8	370.5	370.5	374.2	366.8	359.4
82.5°	237.1	233.4	233.4	240.8	233.4	233.4	237.1	240.8	233.4	233.4	233.4
85°	129.6	133.4	126.0	126.0	126.0	133.4	129.6	122.3	129.6	129.6	126.0
87.5°	48.1	44.5	44.5	44.5	44.5	44.5	48.1	51.9	51.9	51.9	55.6
90°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	29.3	39.1	43.9	37.8
92.5°	109.8	105.4	88.0	70.5	88.0	105.4	109.8	155.6	216.8	247.3	217.1
95°	372.8	359.5	306.6	253.7	306.6	359.5	372.8	489.5	645.1	723.0	610.6
97.5°	860.6	835.4	734.7	634.0	734.7	835.4	860.6	934.3	1032.8	1081.9	894.5
100°	1208.5	1178.5	1058.6	938.6	1058.6	1178.5	1208.5	1203.1	1195.9	1192.3	984.3
102.5°	1505.5	1479.8	1377.1	1274.4	1377.1	1479.8	1505.5	1411.5	1286.2	1223.5	1012.7
105°	1852.3	1838.5	1783.3	1728.1	1783.3	1838.5	1852.3	1641.5	1360.6	1220.1	1015.8
107.5°	2032.7	2036.1	2049.3	2062.7	2049.3	2036.1	2032.7	1738.7	1346.7	1150.7	970.7
110°	2078.9	2093.3	2150.8	2208.3	2150.8	2093.3	2078.9	1750.2	1312.0	1093.0	930.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2049.4	2071.5	2159.9	2248.2	2159.9	2071.5	2049.4	1713.0	1264.6	1040.3	895.5
115°	1949.4	1980.1	2102.6	2225.2	2102.6	1980.1	1949.4	1625.4	1193.3	977.3	855.4
117.5°	1811.3	1845.2	1981.1	2117.0	1981.1	1845.2	1811.3	1518.8	1128.9	934.0	830.3
120°	1718.3	1751.3	1883.3	2015.3	1883.3	1751.3	1718.3	1451.0	1094.8	916.7	821.9
122.5°	1625.2	1657.7	1788.0	1918.2	1788.0	1657.7	1625.2	1384.6	1063.7	903.3	817.4
125°	1502.1	1532.1	1652.0	1772.0	1652.0	1532.1	1502.1	1297.7	1025.2	888.9	813.8
127.5°	1403.3	1428.6	1529.7	1631.0	1529.7	1428.6	1403.3	1227.7	993.8	876.8	811.6
130°	1340.8	1364.2	1457.8	1551.2	1457.8	1364.2	1340.8	1184.6	976.3	872.2	812.9
132.5°	1287.7	1308.6	1392.3	1476.1	1392.3	1308.6	1287.7	1147.8	961.3	868.1	813.8
135°	1212.6	1230.6	1302.8	1375.0	1302.8	1230.6	1212.6	1095.5	939.3	861.1	813.0
137.5°	1157.1	1171.8	1230.9	1290.0	1230.9	1171.8	1157.1	1058.1	926.0	860.0	818.1
140°	1112.6	1126.4	1181.6	1236.8	1181.6	1126.4	1112.6	1027.1	912.9	855.9	818.8
142.5°	1081.4	1093.2	1140.8	1188.3	1140.8	1093.2	1081.4	1006.2	906.0	855.9	821.8
145°	1034.5	1043.5	1079.5	1115.5	1079.5	1043.5	1034.5	973.1	891.1	850.2	821.8
147.5°	995.3	1002.8	1032.5	1062.3	1032.5	1002.8	995.3	947.0	882.5	850.2	827.5
150°	972.7	978.7	1002.8	1027.1	1002.8	978.7	972.7	931.8	877.4	850.2	830.4
152.5°	954.8	959.4	977.6	995.8	977.6	959.4	954.8	919.9	873.5	850.2	832.4
155°	933.4	936.4	948.5	960.6	948.5	936.4	933.4	905.6	868.7	850.2	836.6
157.5°	914.9	917.0	925.5	934.0	925.5	917.0	914.9	893.3	864.6	850.2	840.9
160°	905.6	906.9	911.8	916.7	911.8	906.9	905.6	887.1	862.5	850.2	842.7
162.5°	896.9	898.1	902.7	907.4	902.7	898.1	896.9	881.3	860.6	850.2	844.8
165°	883.7	884.9	889.8	894.7	889.8	884.9	883.7	872.5	857.7	850.2	847.8
167.5°	877.9	878.4	880.5	882.5	880.5	878.4	877.9	870.6	860.8	855.9	853.9
170°	877.9	877.9	877.9	877.9	877.9	877.9	877.9	870.6	860.8	855.9	855.8
172.5°	873.3	872.8	871.1	869.3	871.1	872.8	873.3	867.5	859.7	855.9	855.9
175°	866.9	866.9	866.9	866.9	866.9	866.9	866.9	863.3	858.3	855.9	857.0
177.5°	865.8	865.3	863.2	861.1	863.2	865.3	865.8	862.9	859.1	857.1	858.1
180°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	3867.9	3886.4	3897.5	3912.4	3949.4
5°	3719.8	3790.1	3812.4	3867.9	3934.6
7.5°	3393.7	3608.6	3667.9	3801.3	3904.9
10°	3078.7	3293.6	3397.4	3712.3	3867.9
12.5°	2919.5	3045.5	3115.8	3556.7	3816.0
15°	2819.4	2908.3	2960.2	3349.2	3756.8
17.5°	2741.6	2804.6	2841.7	3145.5	3675.3
20°	2693.4	2723.1	2756.4	2997.2	3582.6
22.5°	2660.1	2641.6	2667.6	2893.6	3456.6
25°	2637.9	2567.5	2597.2	2812.1	3308.5
27.5°	2656.4	2500.8	2511.9	2737.9	3152.9
30°	2660.1	2419.3	2423.0	2660.1	2978.7
32.5°	2634.2	2334.1	2337.8	2563.8	2782.3
35°	2571.2	2234.0	2230.4	2452.7	2515.7
37.5°	2485.9	2126.6	2126.6	2330.4	2222.9
40°	2382.3	2019.2	2030.3	2171.0	1963.6
42.5°	2256.3	1904.3	1919.1	1959.9	1771.0
45°	2119.2	1793.1	1804.3	1656.1	1622.7
47.5°	1967.3	1678.4	1682.0	1374.5	1574.6
50°	1785.8	1559.7	1545.0	1178.2	1570.9
52.5°	1626.5	1430.1	1385.6	1067.0	1426.4
55°	1470.9	1293.0	1196.7	981.8	1322.6
57.5°	1333.7	1115.2	1022.6	881.8	1300.5
60°	1207.8	941.1	870.7	774.3	1193.0
62.5°	1104.1	811.4	796.6	700.2	1081.8
65°	992.9	722.4	718.8	637.3	918.8
67.5°	885.4	663.2	659.4	577.9	700.2
70°	770.7	600.2	592.8	515.0	518.7
72.5°	652.1	529.8	522.4	463.1	429.8
75°	533.5	448.3	444.5	403.8	348.3
77.5°	418.7	355.7	363.0	326.0	255.6
80°	300.1	259.4	266.8	233.4	192.6
82.5°	200.0	170.4	177.9	148.2	129.6
85°	111.1	96.4	100.0	77.8	59.3
87.5°	51.9	44.5	44.5	29.6	18.5
90°	25.4	16.2	15.0	10.4	5.8
92.5°	156.8	111.5	101.7	62.3	23.1
95°	385.8	217.3	199.4	127.4	55.5
97.5°	519.8	238.7	222.8	159.4	95.9
100°	568.5	256.6	242.2	184.7	127.1
102.5°	590.8	274.5	261.1	207.4	153.8
105°	607.4	301.1	289.7	244.2	198.8
107.5°	610.5	340.4	329.9	287.4	245.1
110°	605.9	362.4	352.9	314.5	276.3



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CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	606.1	388.9	379.8	343.3	306.9
115°	611.7	428.8	420.4	386.8	353.1
117.5°	623.0	467.5	459.9	429.3	398.7
120°	632.2	490.1	482.9	454.2	425.4
122.5°	645.6	516.7	509.4	480.4	451.4
125°	663.5	550.8	544.2	517.7	491.3
127.5°	681.4	583.7	577.1	550.4	523.6
130°	694.5	605.7	598.5	569.8	541.0
132.5°	705.1	623.6	616.4	587.6	558.9
135°	716.6	644.4	637.8	611.7	585.5
137.5°	734.0	671.0	664.6	638.6	612.6
140°	744.6	688.9	682.9	659.1	635.1
142.5°	753.5	702.2	696.7	674.6	652.5
145°	765.1	722.4	717.6	698.3	679.1
147.5°	782.0	747.9	743.2	724.4	705.7
150°	790.9	761.1	756.9	739.9	723.0
152.5°	796.6	769.8	766.6	753.7	740.9
155°	809.4	788.9	786.6	777.0	767.5
157.5°	822.1	808.0	805.6	796.5	787.2
160°	827.9	816.7	814.9	807.7	800.5
162.5°	834.0	825.9	824.6	819.2	813.8
165°	842.8	839.2	838.0	833.1	828.2
167.5°	849.7	846.7	846.1	843.8	841.5
170°	855.5	855.3	854.8	852.5	850.2
172.5°	855.9	855.9	855.8	855.3	854.8
175°	859.4	861.1	861.1	861.1	861.1
177.5°	859.8	861.1	861.1	861.1	861.1
180°	861.1	861.1	861.1	861.1	861.1



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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	14.72	15.73	15.54	16.57	17.62	17.57	18.58	18.39	19.43	20.47
	3H	15.21	16.11	16.04	16.97	18.04	18.94	19.84	19.77	20.69	21.77
	4H	15.41	16.26	16.26	17.12	18.21	19.39	20.25	20.24	21.11	22.19
	6H	15.53	16.32	16.40	17.19	18.29	19.69	20.48	20.55	21.35	22.44
	8H	15.54	16.29	16.41	17.18	18.27	19.77	20.52	20.64	21.41	22.51
	12H	15.51	16.23	16.39	17.11	18.24	19.82	20.53	20.70	21.41	22.54
4H	2H	15.78	16.63	16.63	17.49	18.58	18.00	18.85	18.85	19.71	20.80
	3H	16.82	17.53	17.68	18.42	19.52	19.52	20.24	20.39	21.13	22.23
	4H	17.10	17.75	17.98	18.64	19.77	20.06	20.71	20.94	21.60	22.73
	6H	17.23	17.79	18.13	18.71	19.84	20.44	21.00	21.34	21.92	23.05
	8H	17.24	17.77	18.14	18.67	19.82	20.56	21.08	21.45	21.99	23.13
	12H	17.22	17.69	18.13	18.62	19.76	20.62	21.09	21.54	22.02	23.17
8H	4H	17.57	18.09	18.47	19.00	20.14	20.20	20.72	21.10	21.63	22.77
	6H	17.84	18.27	18.76	19.22	20.36	20.65	21.08	21.57	22.03	23.17
	8H	17.88	18.26	18.82	19.21	20.37	20.80	21.19	21.74	22.13	23.29
	12H	17.87	18.21	18.81	19.14	20.36	20.91	21.25	21.85	22.19	23.40
12H	4H	17.58	18.05	18.50	18.98	20.13	20.17	20.64	21.09	21.57	22.72
	6H	17.90	18.28	18.83	19.23	20.39	20.65	21.03	21.58	21.97	23.13
	8H	17.97	18.31	18.91	19.25	20.46	20.82	21.15	21.76	22.09	23.30